FCC 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: Zong Liyao
Zong Liyao
Date Jan. 20, 2020

Approved by:
Wei Yanquan
(Chief Engineer)
Date Jan. 20, 2020

Report No.:	BL-SZ19C0360-701
EUT Name:	Mobile Phone
Model	RMX2001
Brand Name:	realme
FCC ID:	2AUYFRMX2001
Test Standard:	FCC 47 CFR Part 2.1093
	ANSI C95.1: 1999, IEEE 1528: 2013
Maximum SAR:	Head (1 g): 1.135W/kg
	Body-worn (1 g): 0.353 W/kg
	Hotspot (1 g): 0.545 W/kg
Test Conclusion:	Pass
Test Date:	Dec. 27, 2019 ~ Jan. 15, 2020
Date of Issue:	Jan. 20, 2020

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Revision History

Version	Issue Date	Revisions Content
Rev. 01	Jan. 20, 2020	Initial Issue

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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 has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory is a testing organization accredited by American Association for Laboratory Accreditation (A2LA) according to ISO/IEC 17025.The accreditation certificate is 4344.01. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
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	20℃ to 23℃
Ambient Relative Humidity	37% to 48%
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.

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

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	RMX2001
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	Color OS 7.0
Dimensions (Approx.)	162.1*74.8*9.6mm
Weight (Approx.)	191g(with battery)

2.5 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	realme
	Model No.	BLP757
	Serial No.	N/A
	Capacitance	Rated: 4210mAh/16.29Wh Typical: 4300mAh/16.64Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	Sunwoda Electronic Co., Ltd.
Ancillary Equipment 2	Li-Polymer Battery (alternative)2	
	Brand Name	realme
	Model No.	BLP757
	Serial No.	N/A

	Capacitance	Rated: 4210mAh/16.29Wh Typical: 4300mAh/16.64Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	Dongguan NVT Technology Co., Ltd.
Ancillary Equipment 3	Li-Polymer Battery (alternative)3	
	Brand Name	realme
	Model No.	BLP757
	Serial No.	N/A
	Capacitance	Rated: 4210mAh/16.29Wh Typical: 4300mAh/16.64Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	TWS TECHNOLOGY (GUANGZHOU) LIMITED
Ancillary Equipment 4	Li-Polymer Battery (alternative)4	
	Brand Name	realme
	Model No.	BLP757
	Serial No.	N/A
	Capacitance	Rated: 4210mAh/16.29Wh Typical: 4300mAh/16.64Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	SUNWODA ELECTRONIC INDIA PRIVATE LIMITED
Ancillary Equipment 5	Li-Polymer Battery (alternative)5	
	Brand Name	realme
	Model No.	BLP757
	Serial No.	N/A
	Capacitance	Rated: 4210mAh/16.29Wh Typical: 4300mAh/16.64Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	Navitasys India Private Limited
Ancillary Equipment 6	Li-Polymer Battery (alternative)6	
	Brand Name	realme
	Model No.	BLP757
	Serial No.	N/A
	Capacitance	Rated: 4210mAh/16.29Wh Typical: 4300mAh/16.64Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	PT. BATTERY TECHNOLOGY INDONESIA

Note: The EUT has six Battery, they are same with electrical parameters, but only differ in Manufacturer and battery cell. By comparing the test data of six Batteries, battery 1 can produce a more conservative SAR values. The battery of the Manufacturer is Sunwoda Electronic Co., Ltd. as the main for test in this report.

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 MHz 3G Network WCDMA/HSDPA/HSUPA/HSPA+ Band 1/2/4/5/8 4G Network LTE FDD Band 1/2/3/4/5/7/8/20/28 LTE TDD Band 38/40/41 Bluetooth 5.0 (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20/ 40) and 802.11ac(VHT20/ 40/ 80) Band 1/2/3/4 SRD, GPS, GLONASS, BDS, Galileo, SBAS, FM, NFC
Note: The EUT is a mobile phone, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA and LTE. 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, 2.4G WLAN, 5G WLAN, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	802.11b/g /n(HT20)	2400 ~ 2483.5 MHz	
	802.11a/ /n(HT20/HT40) /ac(VHT20/VHT40/ VHT80)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	Bluetooth	2400 ~ 2483.5 MHz	
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
DTM	Not Support		
Hotspot Function	Support		
Power Reduction	Support		
Exposure Category	General Population/Uncontrolled exposure		
EUT Stage	Portable Device		
Product	Type		
	☒ Production unit	☐ Identical prototype	

Note:

1. 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).
2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
3. This device has two WWAN transmit antennas. WWAN down antenna is located at the bottom edge of the device, and WWAN up antenna is located at the top edge of the device. Up and Down antenna support the same WWAN frequency bands, and they can't transmit simultaneously.

2.7 Power Reduction Description

This mobile phone device supports the receiver detection mechanism. This device uses the receiver to indicate whether the user is making a call in head or body or hand.
When there is a voice call (including VOIP) and the audio is actively routed through the earpiece receiver, which indicating the head exposure condition it will trigger the head exposure reduced the power.
When there is a voice call (including VOIP), and the audio is actively routed through the headset or speaker, which indicating the body or extremity exposure conditions and will trigger the body or extremity exposure reduced the power.
When this device used data mode only, and the receiver will not work too, the reduced the power are same as body or extremity exposure.

For WWAN Up Antenna (6 sets of power reduction levels)

Head, Body and Product Specific exposure condition conduction different reduction category, the detail as below:

a) Head exposure conditions (3 sets of power reduction levels):

Reduced power level 1-GSM 850; PCS1900; WCDMA Band 2/4/5; LTE Band2/4/5/7/38/41(WWAN Use Only)
When the device is transmitting at the WWAN Up Antenna, power reduction will be enabled for those bands.
Reduced power level 2 - GSM 850; PCS1900; WCDMA Band2/4/5; LTE Band2/4/5/7/38/41(WWAN+WLAN2.4G)
When the device WLAN 2.4GHz is transmitting simultaneously with the WWAN Up Antenna, power reduction will be enabled for those bands.
Reduced power level 3 - GSM 850; PCS1900; WCDMA Band 2/4/5; LTE Band2/4/5/7/38/41(WWAN+WLAN5G)
When the device WLAN 5GHz is transmitting simultaneously with the WWAN Up Antenna, power reduction will be enabled for those bands.
Power reduced level 2 or level 3 are same as level 1.

b) Body（Body-worn and Hotspot）and Product Specific exposure conditions:

Once the device is transmitting at the WWAN Up Antenna, the receiver to indicate user in body or hand. Power reduction will be enabled for those bands.
Reduced power level 4-PCS1900; WCDMA Band 2/4; LTE Band2/4/7/38/41(WWAN Use Only)
When the device is transmitting at the WWAN Up Antenna, power reduction will be enabled for those bands.
Reduced power level 5 -PCS1900; WCDMA Band 2/4; LTE Band2/4/7/38/41(WWAN+WLAN2.4G)
When the device WLAN 2.4GHz is transmitting simultaneously with the WWAN Up Antenna, power reduction will be enabled for those bands.
Reduced power level 6 -PCS1900; WCDMA Band 2/4; LTE Band2/4/7/38/41(WWAN+WLAN5G)
When the device WLAN 5GHz is transmitting simultaneously with the WWAN Up Antenna, power reduction will be enabled for those bands.
Power reduced level 5 or level 6 are same as level 4.

For WWAN Down Antenna (3 sets of power reduction levels)

c) Body（Body-worn and Hotspot）and Product Specific exposure conditions:

Once the device is transmitting at the WWAN Down Antenna, the receiver to indicate user in body or hand. Power reduction will be enabled for those bands.
Reduced power level 7-PCS1900; WCDMA Band 2/4; LTE Band2/4/7/38/41(WWAN Use Only)
When the device is transmitting at the WWAN Down Antenna, power reduction will be enabled for those bands.
Reduced power level 8 -PCS1900; WCDMA Band 2/4; LTE Band2/4/7/38/41(WWAN+WLAN2.4G)
When the device WLAN 2.4GHz is transmitting simultaneously with the WWAN Down Antenna, power reduction will be enabled for those bands.
Reduced power level 9 -PCS1900; WCDMA Band 2/4; LTE Band2/4/7/38/41(WWAN+WLAN5G)

When the device WLAN 5GHz is transmitting simultaneously with the WWAN Down Antenna, power reduction will be enabled for those bands.
Power reduced level 8 or level 9 are same as level 7.

For WLAN Antenna (2 sets of power reduction levels)
Head exposure conditions (2 sets of power reduction levels):
Reduced power level 1-WLAN2.4G, WLAN 5G (WLAN Use Only)
When the device is transmitting at the WLAN Antenna, power reduction will be enabled for those bands.
Reduced power level 2-WLAN2.4G, WLAN 5G(WLAN +WWAN)
When the device WLAN Antenna is transmitting simultaneously with the WWAN Antenna, power reduction will be enabled for those bands.
Power reduced level 2 is same as level 1.
Note: When the device transmitting at the WLAN at body or limbs exposure conditions this product not support power reduction function.

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1999	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	FCC KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	FCC KDB 941225 D06 v02r01	SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities
8	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
9	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	KDB 248227 D01 v02r02	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters

3.2 Device Category and SAR Limit

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

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

Table of Exposure Limits:

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

NOTE:

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

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

3.3 Test Result Summary

3.3.1 Highest Head and Body SAR (1 g Value)

Band	Maximum Scaled SAR (W/kg)			Maximum Report SAR (W/kg)		
	Head	Body		Head	Body	Hotspot
		Body-worn (15mm)	Hotspot (10mm)			
GSM 850	0.239	0.313	0.361	1.135	0.353	0.545
GSM 1900	0.606	0.144	0.405			
WCDMA Band 2	0.534	0.102	0.299			
WCDMA Band 4	0.292	0.101	0.258			
WCDMA Band 5	0.263	0.255	0.356			
LTE Band 2	0.603	0.169	0.300			
LTE Band 4	0.303	0.164	0.300			
LTE Band 5	0.279	0.279	0.372			
LTE Band 7	**1.135**	0.183	**0.545**			
LTE Band 38	0.569	0.087	0.216			
LTE Band 41	0.720	0.086	0.295			
2.4G WLAN	0.934	0.105	0.306			
5.2G WLAN	/	/	0.469			
5.3G WLAN	0.419	0.250				
5.6G WLAN	0.349	**0.353**	/			
5.8G WLAN	0.469	0.280	0.443			
Bluetooth	0.181	0.010	0.023			
Limit (W/kg)	1.60					
Verdict	Pass					

3.3.2 Highest Product Specific SAR (10 g Value)

Band	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)
	Specific (0mm)	Specific (0mm)
LTE Band 7	**1.156**	1.156
5.3G WLAN	0.905	
5.6G WLAN	1.135	
Limit (W/kg)	4.0	
Verdict	Pass	

3.3.3 Highest Simultaneous SAR

Position	Simultaneous Configuration	Simultaneous SAR (W/kg)	Limit (W/kg)	Verdict
Head (1g)	WCDMA + 2.4G WLAN	1.495	1.6	Pass
Body-worn (1g)	WCDMA + 5G WLAN + Bluetooth	0.676	1.6	Pass
Hotspot Mode (1g)	GSM+ 5G WLAN + Bluetooth	1.035	1.6	Pass
Product Specific (10g)	LTE + 5G WLAN	1.853	4.0	Pass

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 1.135 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.
The maximum 10 g SAR for the EUT in this report is 1.156 W/kg, which is lower than 3.75 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

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

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

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

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

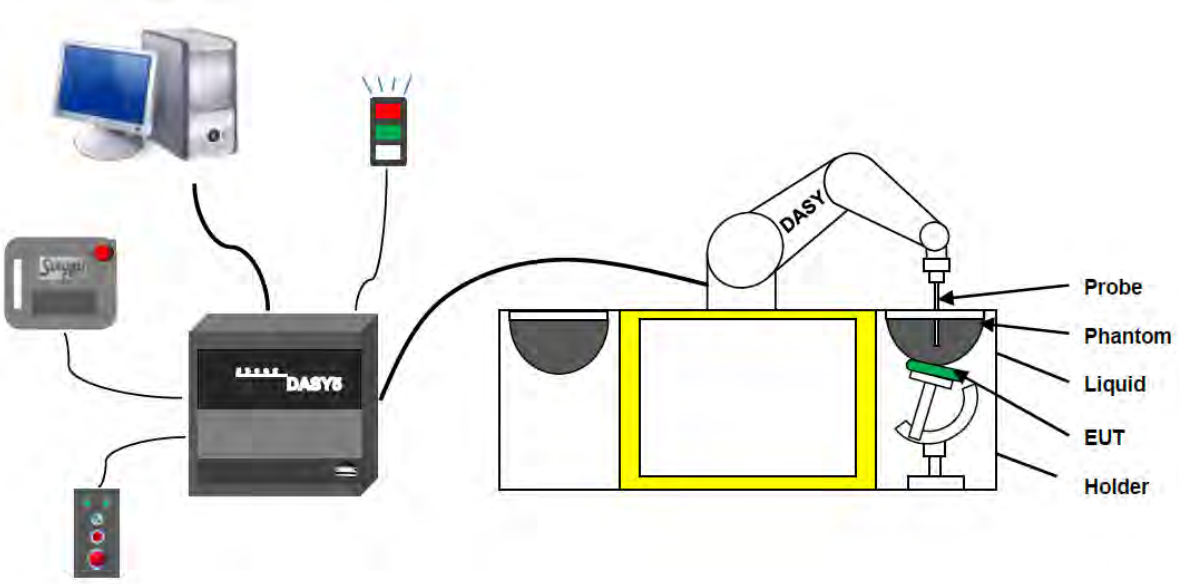
$$\mathbf{SAR} = \frac{\boldsymbol{\sigma}\mathbf{E}^2}{\boldsymbol{\rho}}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY5 software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

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

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

4.2.3 E-Field Probe

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

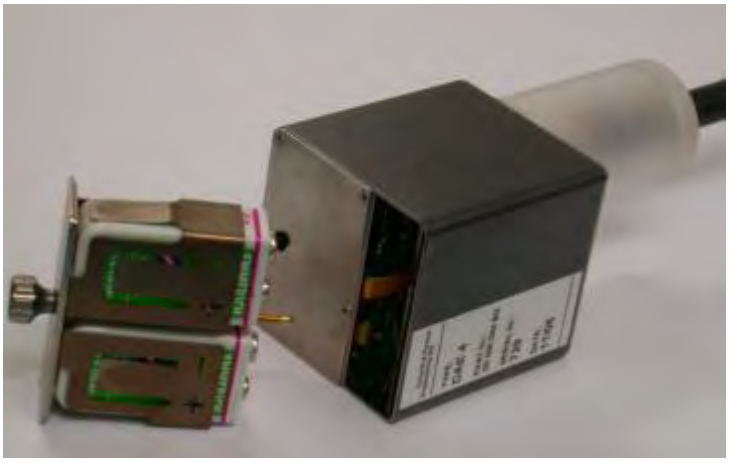
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection systemBuilt-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz;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

E-Field Probe Calibration Process

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

4.2.4 Data Acquisition Electronics

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



- Input Impedance: 200MOhm
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB

4.2.5 Phantoms

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

- Left hand
- Right hand
- Flat phantom

Photo of Phantom SN1857

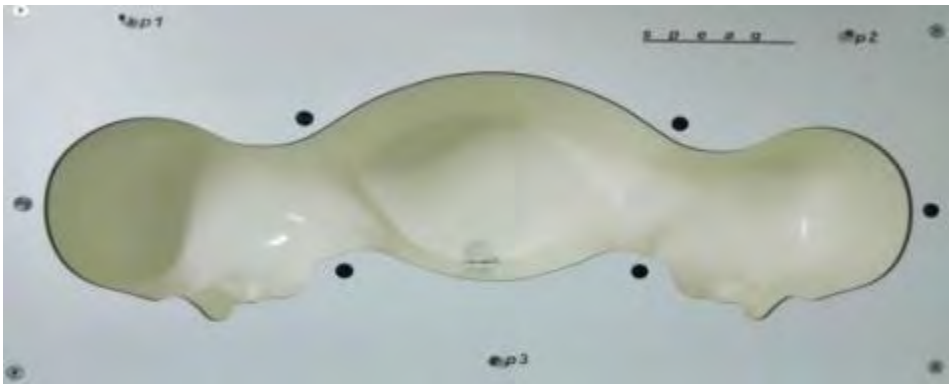
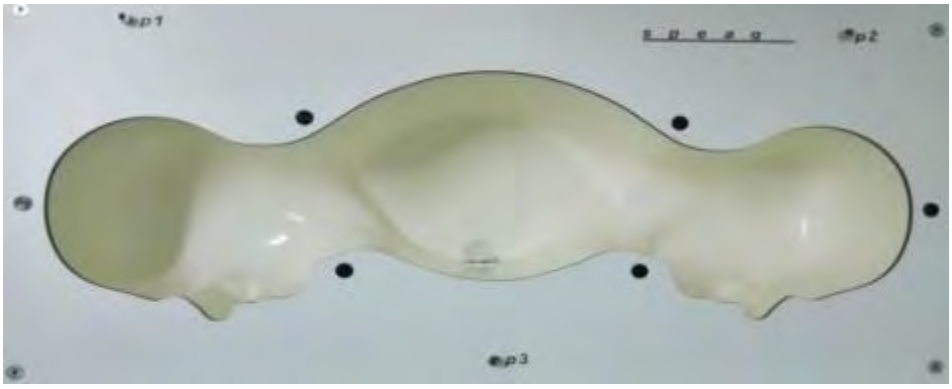


Photo of Phantom SN1859



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

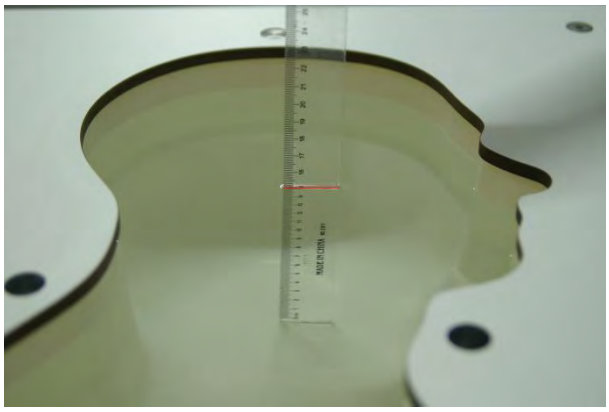
4.2.6 Device Holder

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

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

4.2.7 Simulating Liquid

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

Head Liquid Depth	Body Liquid Depth
	

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

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

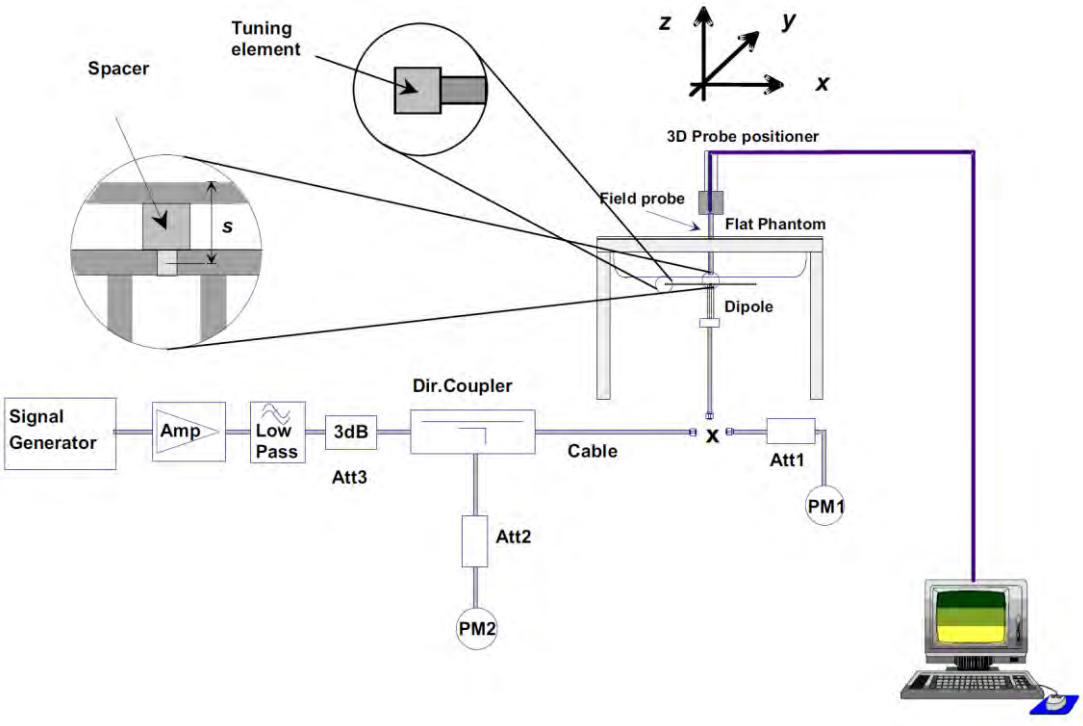
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

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

5.2 System Check Setup

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



6 TEST POSITION CONFIGURATIONS

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

6.1 Head Exposure Conditions

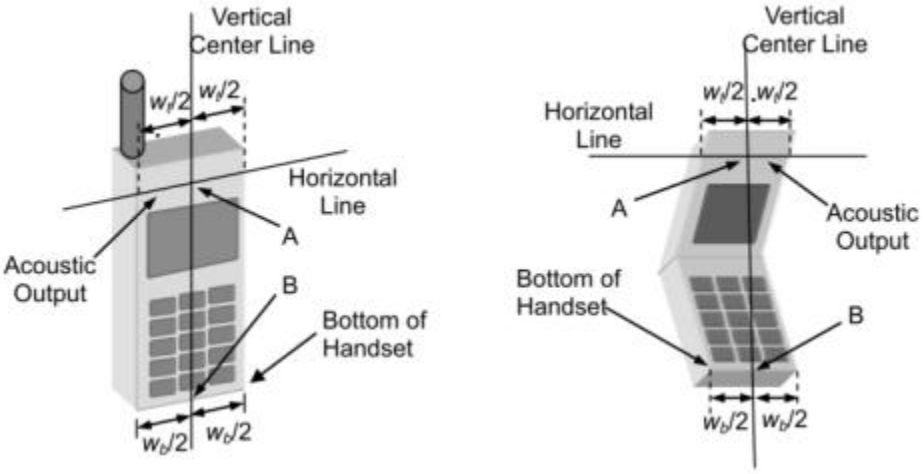
Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

6.1.1 Two Imaginary Lines on the Handset

(a) The vertical center line passes through two points on the front side of the handset - the midpoint of the width w t of the handset at the level of the acoustic output, and the midpoint of the width w b of the bottom of the handset.

(b) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.

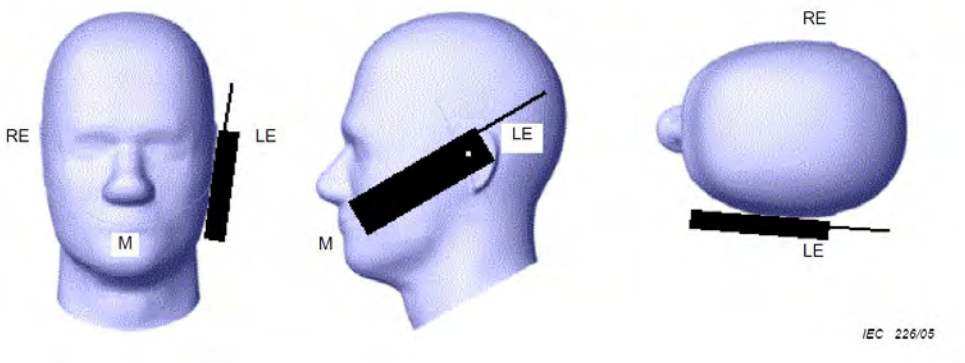
(c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset,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



6.1.2 Cheek Position

(a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

(b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



6.1.3 Tilted Position

(a) To position the device in the “cheek” position described above.

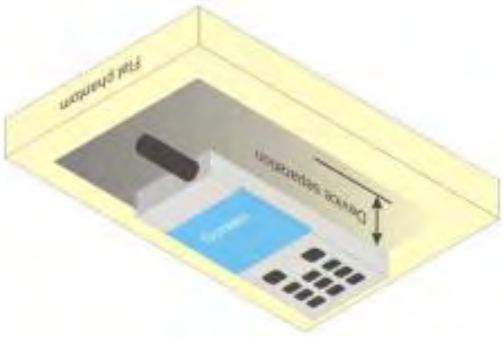
(b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

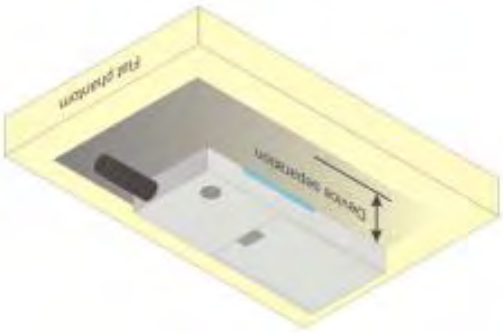
6.2 Body-worn Position Conditions

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

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

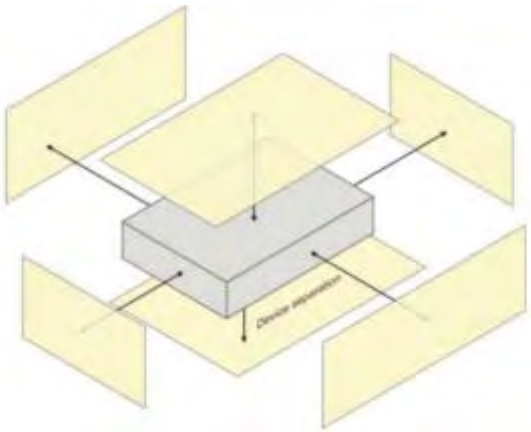
Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice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





6.3 Hotspot Mode Exposure Position Conditions

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



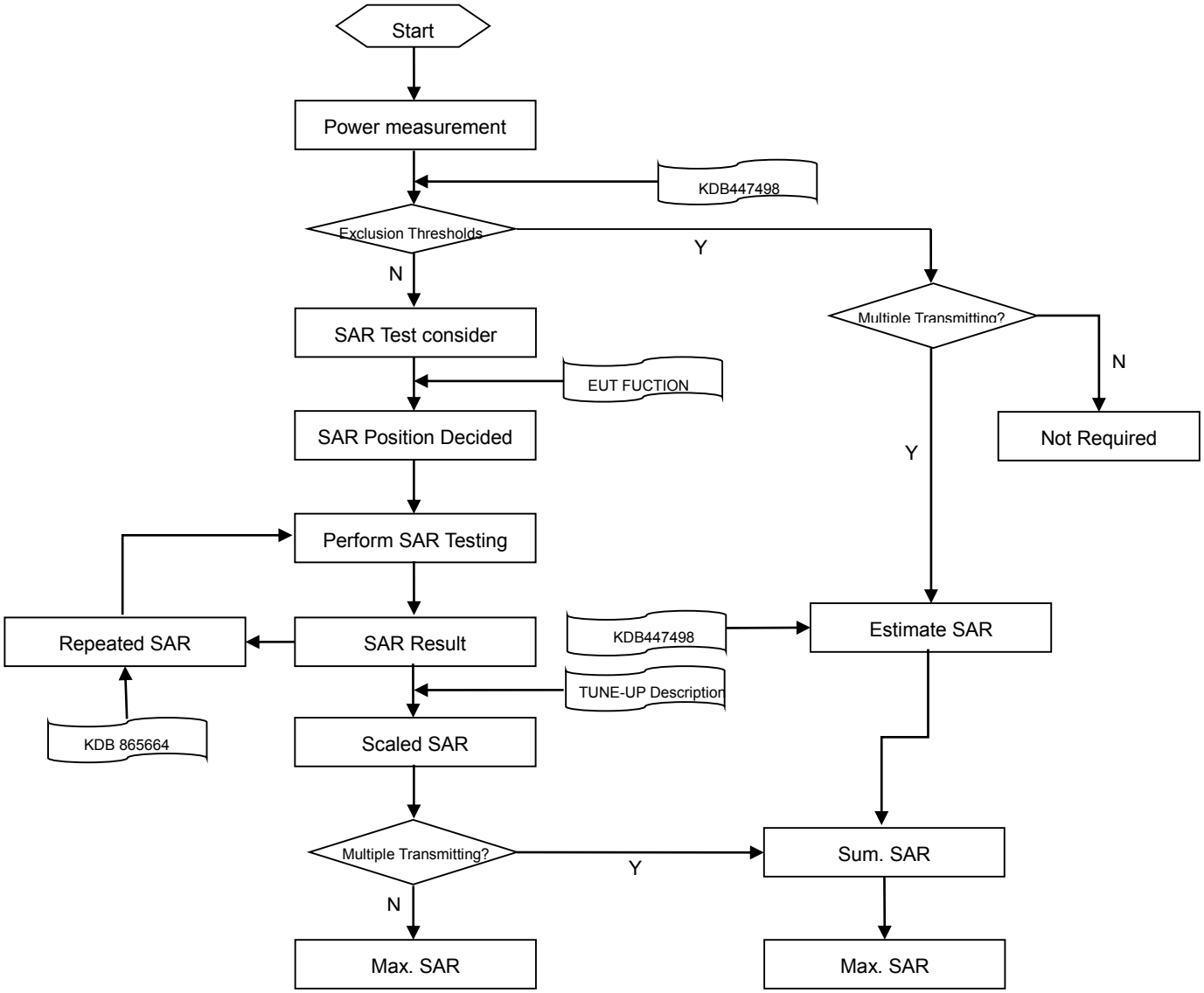
6.4 Product Specific 10g Exposure Consideration

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

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

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

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

<table>
<tr><th colspan="3"></th><th>≤3GHz</th><th>>3GHz</th></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5±1 mm</td><td>½·δ·ln(2)±0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30°±1°</td><td>20°±1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: Δx Area , Δy Area</td><td>≤ 2 GHz: ≤ 15 mm
2 – 3 GHz: ≤ 12 mm</td><td>3–4 GHz: ≤ 12 mm
4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom</td><td>≤ 2 GHz: ≤ 8 mm
2 –3 GHz: ≤ 5 mm*</td><td>3–4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="7">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2" rowspan="3">uniform grid: Δz Zoom (n)</td><td rowspan="3">≤ 5 mm</td><td>3–4 GHz: ≤ 4 mm</td></tr>
<tr><td>4–5 GHz: ≤ 3 mm</td></tr>
<tr><td>5–6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="4">graded grid</td><td rowspan="3">Δz Zoom (1): between 1st two points closest to phantom surface</td><td rowspan="3">≤ 4 mm</td><td>3–4 GHz: ≤ 3 mm</td></tr>
<tr><td>4–5 GHz: ≤ 2.5 mm</td></tr>
<tr><td>5–6 GHz: ≤ 2 mm</td></tr>
<tr><td>Δz Zoom (n>1): between subsequent points</td><td colspan="2">≤ 1.5·Δz Zoom (n-1)</td></tr>
<tr><td rowspan="3">Minimum zoom scan volume</td><td colspan="2" rowspan="3">x, y, z</td><td rowspan="3">≥30 mm</td><td>3–4 GHz: ≥ 28 mm</td></tr>
<tr><td>4–5 GHz: ≥ 25 mm</td></tr>
<tr><td>5–6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">Note:
1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</td></tr>
</table>

7.3 Measurement Procedure

The following steps are used for each test position

a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 *32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

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

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

8 CONDUCTED RF OUPUT POWER

8.1 GSM

GSM 850								
GSM850 Band	Burst Average Power(dBm)			Tune-up Limit (dBm)	Frame-Averaged power (dBm)			Tune-up Limit (dBm)
Channel	128	190	251		128	190	251	
GSM (GMSK, 1-Slot)	32.39	32.37	32.30	33.30	23.20	23.18	23.11	24.11
GPRS (GMSK, 1-Slot)	32.23	32.21	32.14	33.30	23.04	23.02	22.95	24.11
GPRS (GMSK, 2-Slots)	30.74	30.71	30.62	31.00	24.61	**24.58**	24.49	24.87
GPRS (GMSK, 3-Slots)	28.71	28.62	28.53	29.00	24.29	24.20	24.11	24.58
GPRS (GMSK, 4-Slots)	27.71	27.64	27.54	28.00	24.53	24.46	24.36	24.82
EGPRS (8PSK, 1-Slot)	26.91	26.94	26.82	28.00	17.72	17.75	17.63	18.81
EGPRS (8PSK, 2-Slots)	25.68	25.69	25.57	27.00	19.55	19.56	19.44	20.87
EGPRS (8PSK, 3-Slots)	23.33	23.48	23.31	25.00	18.91	19.06	18.89	20.58
EGPRS (8PSK, 4-Slots)	22.19	22.35	22.18	24.00	19.01	19.17	19.00	20.82
GSM 1900								
GSM1900 Band	Burst Average Power(dBm)			Tune-up Limit (dBm)	Frame-Averaged power(dBm)			Tune-up Limit (dBm)
Channel	512	661	810		512	661	810	
GSM (GMSK, 1-Slot)	29.77	29.72	29.72	30.30	20.58	20.53	20.53	21.11
GPRS (GMSK, 1-Slot)	29.54	29.51	29.52	30.30	20.35	20.32	20.33	21.11
GPRS (GMSK, 2-Slots)	28.04	28.02	28.06	28.50	21.91	21.89	**21.93**	22.37
GPRS (GMSK, 3-Slots)	26.04	26.03	26.10	26.50	21.62	21.61	21.68	22.08
GPRS (GMSK, 4-Slots)	25.08	25.10	25.10	25.50	21.90	21.92	21.92	22.32
EGPRS (8PSK, 1-Slot)	26.59	26.64	26.49	28.00	17.40	17.45	17.30	18.81
EGPRS (8PSK, 2-Slots)	25.69	25.74	25.56	27.00	19.56	19.61	19.43	20.87
EGPRS (8PSK, 3-Slots)	23.77	23.83	23.68	25.00	19.35	19.41	19.26	20.58
EGPRS (8PSK, 4-Slots)	22.71	22.90	22.66	24.00	19.53	19.72	19.48	20.82

Note [1]: SAR testing was performed on the maximum frame-averaged power mode.

Note [2]: The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

Frame-averaged power = Burst averaged power (1 Tx Slot) – 9.19 dB

Frame-averaged power = Burst averaged power (2 Tx Slots) – 6.13 dB

Frame-averaged power = Burst averaged power (3 Tx Slots) - 4.42dB

Frame-averaged power = Burst averaged power (4 Tx Slots) – 3.18 dB

8.2 WCDMA

WCDMA	Band 2				Band 4			
Channel	9262	9400	9538	Tune-up Limit (dBm)	1312	1412	1513	Tune-up Limit (dBm)
RMC 12.2Kbps	23.12	23.10	**23.31**	24.00	**23.16**	23.07	22.95	24.00
HSDPA Subtest-1	23.17	23.16	23.30	24.00	**23.16**	23.06	22.98	24.00
HSDPA Subtest-2	23.10	23.11	23.28	24.00	23.15	23.01	22.92	24.00
HSDPA Subtest-3	22.60	22.59	22.77	23.50	22.60	22.50	22.42	23.50
HSDPA Subtest-4	22.57	22.57	22.75	23.50	22.61	22.47	22.39	23.50
HSUPA Subtest-1	21.13	21.11	21.29	22.00	21.15	21.04	20.93	22.00
HSUPA Subtest-2	21.11	21.10	21.29	22.00	21.14	21.02	20.94	22.00
HSUPA Subtest-3	22.09	22.07	22.30	23.00	22.14	22.03	21.95	23.00
HSUPA Subtest-4	20.64	20.62	20.81	21.50	20.65	20.59	20.46	21.50
HSUPA Subtest-5	22.10	22.12	22.26	23.00	22.14	22.03	21.91	23.00
WCDMA	Band 5				-			
Channel	4132	4182	4233	Tune-up Limit (dBm)	-	-	-	-
RMC 12.2Kbps	23.15	23.14	23.06	24.30	-	-	-	-
HSDPA Subtest-1	23.16	**23.20**	23.12	24.30	-	-	-	-
HSDPA Subtest-2	23.07	23.13	23.08	24.30	-	-	-	-
HSDPA Subtest-3	22.58	22.66	22.56	23.50	-	-	-	-
HSDPA Subtest-4	22.56	22.59	22.51	23.50	-	-	-	-
HSUPA Subtest-1	21.16	21.14	21.07	22.00	-	-	-	-
HSUPA Subtest-2	21.11	21.16	21.05	22.00	-	-	-	-
HSUPA Subtest-3	22.13	22.16	22.04	23.00	-	-	-	-
HSUPA Subtest-4	20.62	20.66	20.55	22.00	-	-	-	-
HSUPA Subtest-5	22.12	22.12	22.06	23.00	-	-	-	-

8.3 LTE

FDD LTE Band 2									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18700	18900	19100		18700	18900	19100	
20 MHz	1 (RB_Pos:0)	22.65	22.72	22.56	23.80	22.11	22.25	21.98	22.80
	1 (RB_Pos:50)	**22.87**	22.85	22.79	23.80	22.39	22.28	22.27	22.80
	1 (RB_Pos:99)	22.69	22.57	22.74	23.80	22.25	22.00	22.18	22.80
	50 (RB_Pos:0)	21.82	21.70	21.83	22.80	20.86	20.78	20.83	21.80
	50 (RB_Pos:25)	21.86	21.83	21.86	22.80	20.91	20.88	20.86	21.80
	50 (RB_Pos:50)	21.88	21.73	21.82	22.80	20.92	20.74	20.85	21.80
	100 (RB_Pos:0)	21.84	21.70	21.82	22.80	20.87	20.71	20.89	21.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18675	18900	19125		18675	18900	19125	
15 MHz	1 (RB_Pos:0)	22.68	22.76	22.66	23.80	21.59	22.17	22.20	22.80
	1 (RB_Pos:38)	22.84	22.83	22.88	23.80	21.79	22.19	22.36	22.80
	1 (RB_Pos:74)	22.68	22.61	22.83	23.80	21.71	21.96	22.28	22.80
	36 (RB_Pos:0)	21.81	21.72	21.73	22.80	20.77	20.82	20.76	21.80
	36 (RB_Pos:20)	21.80	21.78	21.85	22.80	20.83	20.84	20.83	21.80
	36 (RB_Pos:39)	21.75	21.72	21.85	22.80	20.80	20.79	20.86	21.80
	75 (RB_Pos:0)	21.78	21.76	21.84	22.80	20.78	20.81	20.85	21.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18650	18900	19150		18650	18900	19150	
10 MHz	1 (RB_Pos:0)	22.78	22.73	22.71	23.80	21.65	22.15	21.82	22.80
	1 (RB_Pos:25)	22.83	22.83	22.94	23.80	21.71	22.20	21.94	22.80
	1 (RB_Pos:49)	22.76	22.71	22.92	23.80	21.69	22.04	21.94	22.80
	25 (RB_Pos:0)	21.69	21.68	21.76	22.80	20.75	20.77	20.93	21.80
	25 (RB_Pos:12)	21.80	21.78	21.90	22.80	20.86	20.92	21.01	21.80
	25 (RB_Pos:25)	21.70	21.76	21.84	22.80	20.77	20.83	20.96	21.80
	50 (RB_Pos:0)	21.73	21.74	21.84	22.80	20.75	20.79	20.90	21.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18625	18900	19175		18625	18900	19175	
5 MHz	1 (RB_Pos:0)	22.68	22.69	22.83	23.80	21.85	22.26	21.89	22.80
	1 (RB_Pos:13)	22.85	22.89	22.98	23.80	21.98	22.34	22.08	22.80
	1 (RB_Pos:24)	22.71	22.70	22.87	23.80	21.83	22.16	21.98	22.80
	12 (RB_Pos:0)	21.71	21.70	21.91	22.80	20.77	20.89	20.95	21.80
	12 (RB_Pos:6)	21.80	21.79	21.94	22.80	20.87	20.95	21.05	21.80
	12 (RB_Pos:13)	21.74	21.72	21.87	22.80	20.82	20.88	20.94	21.80

	25 (RB_Pos:0)	21.75	21.76	21.84	22.80	20.80	20.89	20.90	21.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18615	18900	19185		18615	18900	19185	
3.0 MHz	1 (RB_Pos:0)	22.46	22.46	22.60	23.80	21.34	21.85	21.68	22.80
	1 (RB_Pos:8)	22.55	22.55	22.77	23.80	21.47	21.93	21.73	22.80
	1 (RB_Pos:14)	22.46	22.45	22.61	23.80	21.29	21.81	21.65	22.80
	8 (RB_Pos:0)	21.73	21.67	21.82	22.80	20.78	20.82	20.90	21.80
	8 (RB_Pos:3)	21.77	21.71	21.92	22.80	20.83	20.86	20.96	21.80
	8 (RB_Pos:7)	21.67	21.65	21.82	22.80	20.75	20.74	20.89	21.80
	15 (RB_Pos:0)	21.66	21.63	21.85	22.80	20.70	20.69	20.84	21.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18607	18900	19193		18607	18900	19193	
1.4 MHz	1 (RB_Pos:0)	22.59	22.59	22.76	23.80	21.65	21.93	21.76	22.80
	1 (RB_Pos:3)	22.64	22.63	22.83	23.80	21.71	22.00	21.87	22.80
	1 (RB_Pos:5)	22.59	22.57	22.77	23.80	21.66	21.96	21.82	22.80
	3 (RB_Pos:0)	22.70	22.68	22.91	23.80	21.70	21.90	22.08	22.80
	3 (RB_Pos:1)	22.69	22.72	22.95	23.80	21.70	21.89	22.13	22.80
	3 (RB_Pos:3)	22.66	22.70	22.94	23.80	21.72	21.87	22.09	22.80
	6 (RB_Pos:0)	21.74	21.70	21.91	22.80	20.89	20.66	21.16	21.80

FDD LTE Band 4									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20050	20175	20300		20050	20175	20300	
20 MHz	1 (RB_Pos:0)	22.56	22.63	22.58	23.80	22.04	22.13	21.96	22.80
	1 (RB_Pos:50)	22.80	**22.85**	22.67	23.80	22.37	22.26	22.04	22.80
	1 (RB_Pos:99)	22.58	22.57	22.35	23.80	22.11	21.93	21.79	22.80
	50 (RB_Pos:0)	21.65	21.68	21.70	22.80	20.72	20.74	20.68	21.80
	50 (RB_Pos:25)	21.80	21.81	21.67	22.80	20.88	20.86	20.68	21.80
	50 (RB_Pos:50)	21.77	21.69	21.52	22.80	20.83	20.77	20.51	21.80
	100 (RB_Pos:0)	21.74	21.70	21.62	22.80	20.81	20.70	20.63	21.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20025	20175	20325		20025	20175	20325	
15 MHz	1 (RB_Pos:0)	22.62	22.68	22.70	23.80	21.52	22.10	21.99	22.80
	1 (RB_Pos:38)	22.79	22.78	22.68	23.80	21.77	22.17	22.02	22.80
	1 (RB_Pos:74)	22.61	22.64	22.49	23.80	21.63	21.94	21.87	22.80
	36 (RB_Pos:0)	21.68	21.69	21.71	22.80	20.67	20.78	20.65	21.80

	36 (RB_Pos:20)	21.76	21.77	21.65	22.80	20.79	20.83	20.62	21.80
	36 (RB_Pos:39)	21.74	21.76	21.55	22.80	20.75	20.79	20.50	21.80
	75 (RB_Pos:0)	21.75	21.79	21.66	22.80	20.75	20.78	20.62	21.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20000	20175	20350		20000	20175	20350	
10 MHz	1 (RB_Pos:0)	22.71	22.74	22.64	23.80	21.61	22.15	21.63	22.80
	1 (RB_Pos:25)	22.76	22.76	22.61	23.80	21.69	22.15	21.62	22.80
	1 (RB_Pos:49)	22.74	22.70	22.54	23.80	21.71	22.02	21.57	22.80
	25 (RB_Pos:0)	21.61	21.65	21.55	22.80	20.72	20.74	20.69	21.80
	25 (RB_Pos:12)	21.76	21.80	21.61	22.80	20.83	20.85	20.71	21.80
	25 (RB_Pos:25)	21.73	21.73	21.50	22.80	20.83	20.79	20.61	21.80
	50 (RB_Pos:0)	21.70	21.72	21.56	22.80	20.72	20.74	20.62	21.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19975	20175	20375		19975	20175	20375	
5 MHz	1 (RB_Pos:0)	22.65	22.67	22.49	23.80	21.81	22.17	21.62	22.80
	1 (RB_Pos:13)	22.78	22.78	22.61	23.80	21.92	22.29	21.71	22.80
	1 (RB_Pos:24)	22.66	22.65	22.46	23.80	21.82	22.11	21.61	22.80
	12 (RB_Pos:0)	21.63	21.64	21.51	22.80	20.73	20.82	20.60	21.80
	12 (RB_Pos:6)	21.71	21.76	21.57	22.80	20.82	20.90	20.67	21.80
	12 (RB_Pos:13)	21.68	21.70	21.53	22.80	20.79	20.87	20.61	21.80
	25 (RB_Pos:0)	21.65	21.68	21.54	22.80	20.73	20.83	20.53	21.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19965	20175	20385		19965	20175	20385	
3.0 MHz	1 (RB_Pos:0)	22.38	22.46	22.22	23.80	21.30	21.78	21.25	22.80
	1 (RB_Pos:8)	22.44	22.49	22.34	23.80	21.37	21.84	21.33	22.80
	1 (RB_Pos:14)	22.33	22.39	22.22	23.80	21.25	21.76	21.29	22.80
	8 (RB_Pos:0)	21.61	21.64	21.48	22.80	20.72	20.75	20.50	21.80
	8 (RB_Pos:3)	21.69	21.68	21.48	22.80	20.81	20.79	20.56	21.80
	8 (RB_Pos:7)	21.57	21.63	21.46	22.80	20.71	20.67	20.47	21.80
	15 (RB_Pos:0)	21.59	21.59	21.46	22.80	20.65	20.62	20.45	21.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19957	20175	20393		19957	20175	20393	
1.4 MHz	1 (RB_Pos:0)	22.54	22.53	22.37	23.80	21.60	21.90	21.41	22.80
	1 (RB_Pos:3)	22.61	22.62	22.46	23.80	21.73	21.94	21.48	22.80
	1 (RB_Pos:5)	22.56	22.56	22.39	23.80	21.64	21.90	21.43	22.80
	3 (RB_Pos:0)	22.67	22.66	22.52	23.80	21.69	21.87	21.70	22.80
	3 (RB_Pos:1)	22.69	22.66	22.57	23.80	21.71	21.86	21.72	22.80

	3 (RB_Pos:3)	22.67	22.68	22.54	23.80	21.72	21.85	21.69	22.80
	6 (RB_Pos:0)	21.71	21.69	21.52	22.80	20.88	20.64	20.75	21.80

FDD LTE Band 5									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20450	20525	20600		20450	20525	20600	
10 MHz	1 (RB_Pos:0)	23.24	23.30	23.28	24.10	22.14	22.63	22.31	23.10
	1 (RB_Pos:25)	23.32	**23.34**	23.30	24.10	22.29	22.73	22.35	23.10
	1 (RB_Pos:49)	23.32	23.33	23.27	24.10	22.23	22.70	22.30	23.10
	25 (RB_Pos:0)	22.26	22.20	22.31	23.10	21.33	21.26	21.45	22.10
	25 (RB_Pos:12)	22.35	22.34	22.36	23.10	21.41	21.49	21.42	22.10
	25 (RB_Pos:25)	22.33	22.28	22.27	23.10	21.42	21.38	21.44	22.10
	50 (RB_Pos:0)	22.33	22.28	22.28	23.10	21.33	21.29	21.38	22.10
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20425	20525	20625		20425	20525	20625	
5MHz	1 (RB_Pos:0)	23.23	23.29	23.23	24.10	22.40	22.73	22.40	23.10
	1 (RB_Pos:13)	23.45	23.43	23.36	24.10	22.55	22.92	22.49	23.10
	1 (RB_Pos:24)	23.31	23.29	23.19	24.10	22.45	22.77	22.37	23.10
	12 (RB_Pos:0)	22.26	22.28	22.24	23.10	21.34	21.41	21.33	22.10
	12 (RB_Pos:6)	22.34	22.35	22.29	23.10	21.41	21.54	21.37	22.10
	12 (RB_Pos:13)	22.35	22.30	22.30	23.10	21.43	21.48	21.32	22.10
	25 (RB_Pos:0)	22.32	22.34	22.31	23.10	21.38	21.49	21.30	22.10
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20415	20525	20635		20415	20525	20635	
3.0 MHz	1 (RB_Pos:0)	22.97	23.03	22.94	24.10	21.92	22.39	21.98	23.10
	1 (RB_Pos:8)	23.07	23.12	23.06	24.10	22.03	22.49	22.09	23.10
	1 (RB_Pos:14)	23.01	22.98	22.91	24.10	21.93	22.38	21.97	23.10
	8 (RB_Pos:0)	22.24	22.22	22.19	23.10	21.36	21.40	21.21	22.10
	8 (RB_Pos:3)	22.27	22.28	22.23	23.10	21.41	21.39	21.29	22.10
	8 (RB_Pos:7)	22.19	22.21	22.15	23.10	21.32	21.30	21.19	22.10
	15 (RB_Pos:0)	22.20	22.19	22.19	23.10	21.26	21.27	21.14	22.10
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20407	20525	20643		20407	20525	20643	
1.4MHz	1 (RB_Pos:0)	23.12	23.14	23.06	24.10	22.24	22.54	22.12	23.10
	1 (RB_Pos:3)	23.18	23.21	23.12	24.10	22.32	22.57	22.11	23.10
	1 (RB_Pos:5)	23.12	23.15	23.11	24.10	22.24	22.51	22.10	23.10
	3 (RB_Pos:0)	23.24	23.25	23.17	24.10	22.29	22.48	22.37	23.10

	3 (RB_Pos:1)	23.29	23.29	23.21	24.10	22.30	22.48	22.37	23.10
	3 (RB_Pos:3)	23.26	23.28	23.21	24.10	22.31	22.47	22.38	23.10
	6 (RB_Pos:0)	22.28	22.32	22.18	23.10	21.47	21.25	21.41	22.10

FDD LTE Band 7									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20850	21100	21350		20850	21100	21350	
20MHz	1 (RB_Pos:0)	22.44	22.60	22.49	23.60	21.92	22.08	21.94	22.60
	1 (RB_Pos:50)	22.70	22.77	**22.86**	23.60	22.17	22.24	22.27	22.60
	1 (RB_Pos:99)	22.51	22.52	22.64	23.60	22.00	21.96	22.11	22.60
	50 (RB_Pos:0)	21.47	21.63	21.75	22.60	20.56	20.69	20.78	21.60
	50 (RB_Pos:25)	21.69	21.76	21.86	22.60	20.73	20.83	20.86	21.60
	50 (RB_Pos:50)	21.62	21.65	21.80	22.60	20.68	20.72	20.78	21.60
	100 (RB_Pos:0)	21.56	21.65	21.78	22.60	20.65	20.70	20.82	21.60
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20825	21100	21375		20825	21100	21375	
15MHz	1 (RB_Pos:0)	22.49	22.63	22.61	23.60	21.40	22.00	22.05	22.60
	1 (RB_Pos:38)	22.64	22.70	22.79	23.60	21.57	22.08	22.23	22.60
	1 (RB_Pos:74)	22.53	22.50	22.70	23.60	21.46	21.89	22.10	22.60
	36 (RB_Pos:0)	21.54	21.57	21.68	22.60	20.57	20.68	20.70	21.60
	36 (RB_Pos:20)	21.70	21.65	21.76	22.60	20.65	20.74	20.75	21.60
	36 (RB_Pos:39)	21.63	21.58	21.72	22.60	20.67	20.64	20.71	21.60
	75 (RB_Pos:0)	21.62	21.63	21.75	22.60	20.59	20.70	20.70	21.60
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20800	21100	21400		20800	21100	21400	
10MHz	1 (RB_Pos:0)	22.59	22.69	22.74	23.60	21.48	22.06	21.76	22.60
	1 (RB_Pos:25)	22.64	22.68	22.78	23.60	21.55	22.07	21.81	22.60
	1 (RB_Pos:49)	22.59	22.58	22.76	23.60	21.49	21.97	21.73	22.60
	25 (RB_Pos:0)	21.55	21.61	21.72	22.60	20.63	20.72	20.86	21.60
	25 (RB_Pos:12)	21.67	21.66	21.80	22.60	20.73	20.76	20.94	21.60
	25 (RB_Pos:25)	21.63	21.59	21.71	22.60	20.70	20.73	20.87	21.60
	50 (RB_Pos:0)	21.63	21.64	21.76	22.60	20.62	20.74	20.83	21.60
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20775	21100	21425		20775	21100	21425	
5MHz	1 (RB_Pos:0)	22.52	22.56	22.61	23.60	21.68	22.08	21.75	22.60
	1 (RB_Pos:13)	22.67	22.70	22.79	23.60	21.80	22.20	21.88	22.60
	1 (RB_Pos:24)	22.51	22.55	22.66	23.60	21.72	22.04	21.76	22.60

	12 (RB_Pos:0)	21.52	21.61	21.72	22.60	20.61	20.76	20.79	21.60
	12 (RB_Pos:6)	21.64	21.64	21.74	22.60	20.75	20.80	20.84	21.60
	12 (RB_Pos:13)	21.60	21.58	21.67	22.60	20.72	20.76	20.78	21.60
	25 (RB_Pos:0)	21.59	21.61	21.72	22.60	20.65	20.73	20.78	21.60

TDD LTE Band 38									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37850	38000	38150		37850	38000	38150	
20MHz	1 (RB_Pos:0)	23.12	23.02	23.10	23.80	22.37	22.19	22.38	22.80
	1 (RB_Pos:50)	**23.33**	23.21	23.29	23.80	22.57	22.38	22.57	22.80
	1 (RB_Pos:99)	23.05	22.96	23.08	23.80	22.29	22.15	22.40	22.80
	50 (RB_Pos:0)	22.18	22.09	22.04	22.80	21.16	21.06	21.04	21.80
	50 (RB_Pos:25)	22.24	22.17	22.15	22.80	21.18	21.15	21.21	21.80
	50 (RB_Pos:50)	22.19	22.12	22.14	22.80	21.19	21.09	21.13	21.80
	100 (RB_Pos:0)	22.19	22.05	22.07	22.80	21.19	21.09	21.06	21.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37825	38000	38175		37825	38000	38175	
15MHz	1 (RB_Pos:0)	23.22	23.14	23.16	23.80	22.45	22.50	22.42	22.80
	1 (RB_Pos:38)	23.30	23.25	23.26	23.80	22.52	22.60	22.52	22.80
	1 (RB_Pos:74)	23.12	23.06	23.10	23.80	22.32	22.47	22.36	22.80
	36 (RB_Pos:0)	22.20	22.09	22.06	22.80	21.16	21.04	21.12	21.80
	36 (RB_Pos:20)	22.24	22.12	22.13	22.80	21.21	21.10	21.17	21.80
	36 (RB_Pos:39)	22.18	22.08	22.12	22.80	21.16	21.06	21.13	21.80
	75 (RB_Pos:0)	22.21	22.12	22.14	22.80	21.20	21.06	21.14	21.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37800	38000	38200		37800	38000	38200	
10MHz	1 (RB_Pos:0)	23.25	23.18	23.18	23.80	22.44	22.52	22.49	22.80
	1 (RB_Pos:25)	23.30	23.25	23.26	23.80	22.53	22.58	22.58	22.80
	1 (RB_Pos:49)	23.18	23.15	23.17	23.80	22.42	22.47	22.49	22.80
	25 (RB_Pos:0)	22.22	22.09	22.12	22.80	21.23	21.11	21.15	21.80
	25 (RB_Pos:12)	22.24	22.10	22.16	22.80	21.24	21.15	21.22	21.80
	25 (RB_Pos:25)	22.20	22.13	22.15	22.80	21.22	21.16	21.18	21.80
	50 (RB_Pos:0)	22.22	22.12	22.16	22.80	21.20	21.14	21.18	21.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37775	38000	38225		37775	38000	38225	
5MHz	1 (RB_Pos:0)	23.16	23.07	23.12	23.80	22.32	22.32	22.43	22.80
	1 (RB_Pos:13)	23.29	23.22	23.24	23.80	22.48	22.44	22.60	22.80

	1 (RB_Pos:24)	23.14	23.08	23.11	23.80	22.30	22.28	22.47	22.80
	12 (RB_Pos:0)	22.20	22.07	22.13	22.80	21.21	21.04	21.22	21.80
	12 (RB_Pos:6)	22.23	22.15	22.18	22.80	21.24	21.11	21.28	21.80
	12 (RB_Pos:13)	22.17	22.08	22.15	22.80	21.18	21.06	21.23	21.80
	25 (RB_Pos:0)	22.14	22.08	22.13	22.80	21.15	21.13	21.17	21.80

TDD LTE Band 41											
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40140	40473	40807	41140		40140	40473	40807	41140	
20MHz	1 (RB_Pos:0)	22.89	22.97	22.82	23.03	23.60	22.10	22.21	22.01	22.33	22.60
	1 (RB_Pos:50)	23.05	23.16	23.10	**23.27**	23.60	22.29	22.41	22.24	22.54	22.60
	1 (RB_Pos:99)	22.84	22.87	22.84	23.03	23.60	22.04	22.13	21.99	22.35	22.60
	50 (RB_Pos:0)	21.95	22.05	21.91	22.09	22.60	20.90	20.96	20.92	21.11	21.60
	50 (RB_Pos:25)	21.96	22.11	22.02	22.15	22.60	20.96	21.09	21.05	21.16	21.60
	50 (RB_Pos:50)	21.87	22.03	21.98	21.99	22.60	20.82	20.96	20.97	21.05	21.60
	100 (RB_Pos:0)	21.89	21.99	21.93	22.04	22.60	20.88	20.99	20.90	21.03	21.60
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40115	40465	40815	41165		40115	40465	40815	41165	
15MHz	1 (RB_Pos:0)	22.97	23.03	22.95	23.06	23.60	22.15	22.26	22.34	22.28	22.60
	1 (RB_Pos:38)	23.03	23.15	23.11	23.20	23.60	22.27	22.34	22.48	22.43	22.60
	1 (RB_Pos:74)	22.83	22.96	22.95	23.07	23.60	22.09	22.13	22.30	22.25	22.60
	36 (RB_Pos:0)	21.90	22.02	21.94	22.05	22.60	20.91	21.01	20.90	21.08	21.60
	36 (RB_Pos:20)	21.92	22.04	22.02	22.06	22.60	20.91	21.03	20.97	21.07	21.60
	36 (RB_Pos:39)	21.84	21.96	21.98	22.03	22.60	20.85	21.01	20.96	21.03	21.60
	75 (RB_Pos:0)	21.95	22.04	22.00	22.06	22.60	20.90	21.01	20.96	21.01	21.60
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40090	40457	40823	41190		40090	40457	40823	41190	
10MHz	1 (RB_Pos:0)	21.05	23.09	23.04	23.11	23.60	22.17	22.31	22.41	22.38	22.60
	1 (RB_Pos:25)	22.97	23.11	23.11	23.17	23.60	22.18	22.32	22.43	22.44	22.60
	1 (RB_Pos:49)	22.99	23.06	23.04	23.10	23.60	22.12	22.25	22.40	22.36	22.60
	25 (RB_Pos:0)	22.92	22.03	21.95	22.04	22.60	20.94	21.06	20.96	21.10	21.60
	25 (RB_Pos:12)	21.90	22.07	22.01	22.07	22.60	20.97	21.08	21.02	21.10	21.60
	25 (RB_Pos:25)	21.96	22.03	21.99	22.00	22.60	20.90	21.07	21.01	21.04	21.60
	50 (RB_Pos:0)	21.87	22.04	21.96	22.03	22.60	20.91	21.00	20.97	21.07	21.60
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40065	40448	40832	41215		40065	40448	40832	41215	
5MHz	1 (RB_Pos:0)	22.90	23.00	22.94	23.03	23.60	22.06	22.16	22.21	22.32	22.60

	1 (RB_Pos:13)	23.00	23.07	23.08	23.15	23.60	22.15	22.27	22.30	22.42	22.60
	1 (RB_Pos:24)	22.88	22.98	22.96	23.05	23.60	22.05	22.15	22.19	22.33	22.60
	12 (RB_Pos:0)	21.91	21.99	21.92	22.01	22.60	20.91	21.01	20.90	21.12	21.60
	12 (RB_Pos:6)	21.95	22.03	21.98	22.04	22.60	20.98	21.05	20.97	21.14	21.60
	12 (RB_Pos:13)	21.91	21.98	21.97	22.01	22.60	20.91	21.01	20.94	21.11	21.60
	25 (RB_Pos:0)	21.89	21.97	21.92	22.02	22.60	20.90	21.01	21.01	21.05	21.60

8.4 WIFI

8.4.1 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	18.42	20.00	Yes
		6	2437	**18.99**	20.00	Yes
		11	2462	18.05	20.00	Yes
	802.11g	1	2412	15.19	17.00	No
		6	2437	15.89	17.00	No
		11	2462	15.03	17.00	No
	802.11n(HT20)	1	2412	14.08	16.00	No
		6	2437	14.75	16.00	No
		11	2462	13.73	16.00	No

8.4.2 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	16.25	17.50	No
		44	5220	**16.60**	18.00	Yes
		48	5240	16.51	18.00	No
	802.11n(HT20)	36	5180	15.49	16.50	No
		44	5220	16.47	18.00	No
		48	5240	16.52	18.00	No
	802.11n(HT40)	38	5190	13.31	14.50	No
		46	5230	15.36	17.00	No
	802.11ac(VHT20)	36	5180	14.72	17.00	No
		44	5220	14.33	16.00	No
		48	5240	14.32	16.00	No
	802.11ac(VHT40)	38	5190	12.03	13.00	No
		46	5230	11.72	13.00	No
	802.11ac(VHT80)	42	5210	10.79	12.00	No
5.3 (5.25~5.35)	802.11a	52	5260	16.64	18.00	No
		60	5300	**17.12**	18.00	Yes
		64	5320	15.55	17.00	No
	802.11n(HT20)	52	5260	16.90	18.00	No
		60	5300	16.88	18.00	No
		64	5320	14.95	16.50	No
	802.11n(HT40)	54	5270	15.92	17.00	No
		62	5310	13.42	14.50	No
	802.11ac(VHT20)	52	5260	14.86	16.00	No
		60	5300	14.89	16.00	No
		64	5320	14.85	16.00	No

	802.11ac(VHT40)	54	5270	12.18	13.00	No
		62	5310	12.14	13.00	No
	802.11ac(VHT80)	58	5290	10.80	12.00	No
5.6 (5.47~5.725)	802.11a	100	5500	15.35	16.50	No
		116	5580	**16.28**	18.00	Yes
		140	5700	14.06	16.00	No
	802.11n(HT20)	100	5500	14.68	16.00	No
		116	5580	16.58	18.00	No
		140	5700	13.92	16.00	No
	802.11n(HT40)	102	5510	13.13	14.50	No
		118	5590	15.48	17.00	No
		134	5670	15.23	17.00	No
	802.11ac(VHT20)	100	5500	14.54	16.00	No
		116	5580	14.34	16.00	No
		140	5700	13.22	15.00	No
	802.11ac(VHT40)	102	5510	11.78	13.00	No
		118	5590	11.72	13.00	No
		134	5670	11.50	13.00	No
	802.11ac(VHT80)	106	5530	10.42	12.00	No
		122	5610	10.35	12.00	No
		138	5690	10.22	12.00	No
5.8 (5.725~5.850)	802.11a	149	5745	**16.65**	17.50	Yes
		157	5785	16.45	17.50	No
		165	5825	14.88	17.00	No
	802.11n(HT20)	149	5745	16.31	17.50	No
		157	5785	16.30	17.50	No
		165	5825	14.18	16.00	No
	802.11n(HT40)	151	5755	15.27	16.50	No
		159	5795	15.17	16.50	No
	802.11ac(VHT20)	149	5745	14.13	15.50	No
		157	5785	14.11	15.50	No
		165	5825	12.62	15.50	No
	802.11ac(VHT40)	151	5755	11.48	12.50	No
		159	5795	11.43	12.50	No
	802.11ac(VHT80)	155	5775	10.13	11.50	No

8.5 Bluetooth

Mode	GFSK			π/4-DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	11.27	11.65	**11.57**	5.48	5.59	5.50
Tune-Up Limit (dBm)	13.00			9.00		
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Average Power (dBm)	5.52	5.60	5.49	/	/	/
Tune-Up Limit (dBm)	9.00			/		
Mode	BLE (1Mbps)			BLE (2Mbps)		
Channel	0	19	39	0	19	39
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Average Power (dBm)	-4.71	-3.72	-4.74	-7.54	-6.54	-7.56
Tune-Up Limit (dBm)	-2.00			-5.00		

8.6 Power Reduction List

8.6.1 Power Reduced Level 1&2&3 of GSM 850

GSM 850								
GSM1900 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power(dBm)			Tune-up
Channel	128	190	251	Limit (dBm)	128	190	251	Limit (dBm)
GSM (GMSK, 1-Slot)	31.85	31.76	31.60	32.80	22.66	22.57	22.41	23.61
GPRS (GMSK, 1-Slot)	31.80	31.78	31.68	32.80	22.61	22.59	22.49	23.61
GPRS (GMSK, 2-Slots)	29.69	29.63	29.43	30.50	**23.56**	23.50	23.30	24.37
GPRS (GMSK, 3-Slots)	27.84	27.78	27.58	28.50	23.42	23.36	23.16	24.08
GPRS (GMSK, 4-Slots)	26.46	26.40	26.20	27.50	23.28	23.22	23.02	24.32
EGPRS (8PSK, 1-Slot)	26.46	26.42	26.31	26.50	17.27	17.23	17.12	17.31
EGPRS (8PSK, 2-Slots)	23.20	23.22	23.05	25.50	17.07	17.09	16.92	19.37
EGPRS (8PSK, 3-Slots)	20.99	21.01	20.90	22.50	16.57	16.59	16.48	18.08
EGPRS (8PSK, 4-Slots)	19.24	19.32	19.22	21.50	16.06	16.14	16.04	18.32

8.6.2 Power Reduced Level 1&2&3 of GSM 1900

GSM 1900								
GSM1900 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power(dBm)			Tune-up
Channel	512	661	810	Limit (dBm)	512	661	810	Limit (dBm)
GSM (GMSK, 1-Slot)	25.84	25.86	25.94	26.30	16.65	16.67	16.75	17.11
GPRS (GMSK, 1-Slot)	25.91	25.88	25.92	26.30	16.72	16.69	16.73	17.11
GPRS (GMSK, 2-Slots)	22.93	22.90	22.94	24.00	16.80	16.77	**16.81**	17.87
GPRS (GMSK, 3-Slots)	21.16	21.13	21.18	22.00	16.74	16.71	16.76	17.58
GPRS (GMSK, 4-Slots)	19.90	19.87	19.93	21.00	16.72	16.69	16.75	17.82
EGPRS (8PSK, 1-Slot)	22.31	22.35	22.23	22.50	13.12	13.16	13.04	13.31
EGPRS (8PSK, 2-Slots)	19.27	19.51	19.25	21.50	13.14	13.38	13.12	15.37
EGPRS (8PSK, 3-Slots)	17.37	17.48	17.76	19.50	12.95	13.06	13.34	15.08
EGPRS (8PSK, 4-Slots)	16.08	16.11	15.94	18.00	12.90	12.93	12.76	14.82

8.6.3 Power Reduced Level 4&5&6&7&8&9 of GSM 1900

GSM 1900								
GSM1900 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power(dBm)			Tune-up
Channel	512	661	810	Limit (dBm)	512	661	810	Limit (dBm)
GSM (GMSK, 1-Slot)	27.10	27.11	17.13	27.30	17.91	17.92	7.94	18.11
GPRS (GMSK, 1-Slot)	27.11	27.10	17.12	27.30	17.92	17.91	7.93	18.11
GPRS (GMSK, 2-Slots)	24.06	24.01	24.04	25.00	**17.93**	17.88	17.91	18.87
GPRS (GMSK, 3-Slots)	22.30	22.25	22.28	23.00	17.88	17.83	17.86	18.58
GPRS (GMSK, 4-Slots)	21.10	21.05	21.09	22.00	17.92	17.87	17.91	18.82
EGPRS (8PSK, 1-Slot)	23.34	23.50	23.30	23.50	14.15	14.31	14.11	14.31
EGPRS (8PSK, 2-Slots)	20.29	20.40	20.35	22.50	14.16	14.27	14.22	16.37
EGPRS (8PSK, 3-Slots)	18.47	18.92	18.37	20.50	14.05	14.50	13.95	16.08
EGPRS (8PSK, 4-Slots)	17.08	17.21	17.33	19.00	13.90	14.03	14.15	15.82

8.6.4 Power Reduced Level 1&2&3 of WCDMA Band 2

WCDMA	Band 2			
Channel	9262	9400	9538	Tune-up Limit (dBm)
RMC 12.2Kbps	17.85	17.84	**17.95**	18.00
HSDPA Subtest-1	17.84	17.82	17.91	18.00
HSDPA Subtest-2	17.79	17.80	17.81	18.00
HSDPA Subtest-3	17.34	17.19	17.19	17.50
HSDPA Subtest-4	17.32	17.29	17.22	17.50
HSUPA Subtest-1	14.90	14.97	15.00	16.00
HSUPA Subtest-2	15.18	15.12	14.94	15.50
HSUPA Subtest-3	15.72	15.87	15.94	16.50
HSUPA Subtest-4	14.55	14.68	14.44	15.50
HSUPA Subtest-5	15.82	15.79	15.99	16.50

8.6.5 Power Reduced Level 4&5&6&7&8&9 of WCDMA Band 2

WCDMA	Band 2			
Channel	9262	9400	9538	Tune-up Limit (dBm)
RMC 12.2Kbps	18.92	18.93	**18.96**	19.00
HSDPA Subtest-1	18.92	18.93	18.92	19.00
HSDPA Subtest-2	18.85	18.76	18.79	19.00
HSDPA Subtest-3	18.37	18.29	18.27	18.50
HSDPA Subtest-4	18.36	18.28	18.45	18.50
HSUPA Subtest-1	16.24	16.08	16.11	17.00
HSUPA Subtest-2	16.06	15.89	16.08	16.50
HSUPA Subtest-3	16.83	17.31	17.06	17.50
HSUPA Subtest-4	15.26	15.37	15.55	16.50
HSUPA Subtest-5	17.42	16.92	17.15	17.50

8.6.6 Power Reduced Level 1&2&3 of WCDMA Band 4

WCDMA	Band 4			
Channel	1312	1412	1513	Tune-up Limit (dBm)
RMC 12.2Kbps	17.94	17.90	17.85	18.00
HSDPA Subtest-1	17.95	17.81	17.89	18.00
HSDPA Subtest-2	**17.98**	17.92	17.85	18.00
HSDPA Subtest-3	17.32	17.25	17.28	17.50
HSDPA Subtest-4	17.38	17.26	17.26	17.50
HSUPA Subtest-1	15.69	15.97	15.85	16.00
HSUPA Subtest-2	15.69	15.81	15.49	16.00

HSUPA Subtest-3	16.70	16.97	16.50	17.00
HSUPA Subtest-4	15.20	15.26	15.35	15.50
HSUPA Subtest-5	16.73	17.02	16.51	17.00

8.6.7 Power Reduced Level 4&5&6&7&8&9 of WCDMA Band 4

WCDMA	Band 4			
Channel	1312	1412	1513	Tune-up Limit (dBm)
RMC 12.2Kbps	18.98	18.98	18.93	19.00
HSDPA Subtest-1	18.95	18.93	18.96	19.00
HSDPA Subtest-2	18.98	18.94	**18.99**	19.00
HSDPA Subtest-3	18.44	18.44	18.45	18.50
HSDPA Subtest-4	18.45	18.45	18.49	18.50
HSUPA Subtest-1	16.83	16.64	16.97	17.00
HSUPA Subtest-2	16.83	16.65	16.91	17.00
HSUPA Subtest-3	17.82	17.90	17.73	18.00
HSUPA Subtest-4	16.33	16.49	16.22	16.50
HSUPA Subtest-5	17.88	17.80	17.92	18.00

8.6.8 Power Reduced Level 1&2&3 of WCDMA Band 5

WCDMA	Band 4			
Channel	4132	4182	4233	Tune-up Limit (dBm)
RMC 12.2Kbps	22.66	22.62	22.65	23.80
HSDPA Subtest-1	22.75	**22.76**	22.70	23.80
HSDPA Subtest-2	22.74	22.73	22.64	23.80
HSDPA Subtest-3	22.17	22.19	22.21	23.00
HSDPA Subtest-4	22.23	22.40	22.09	23.00
HSUPA Subtest-1	15.76	15.87	15.80	16.00
HSUPA Subtest-2	15.96	15.75	15.85	16.00
HSUPA Subtest-3	16.40	16.31	16.48	17.00
HSUPA Subtest-4	15.31	15.46	15.45	15.50
HSUPA Subtest-5	16.85	16.74	16.67	17.00

8.6.9 Power Reduced Level 1&2&3 of LTE Band 2

FDD LTE Band 2									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18700	18900	19100		18700	18900	19100	
20 MHz	1 (RB_Pos:0)	16.76	16.77	16.73	17.80	17.22	17.25	17.19	17.80
	1 (RB_Pos:50)	16.83	**16.91**	16.85	17.80	17.27	17.40	17.29	17.80
	1 (RB_Pos:99)	16.71	16.76	16.65	17.80	17.20	17.22	17.14	17.80
	50 (RB_Pos:0)	16.94	16.74	16.97	17.80	17.03	16.75	16.97	17.80
	50 (RB_Pos:25)	16.88	16.87	16.99	17.80	16.97	16.93	16.96	17.80
	50 (RB_Pos:50)	16.86	16.77	16.81	17.80	16.95	16.84	16.83	17.80
	100 (RB_Pos:0)	16.90	16.74	16.85	17.80	16.98	16.80	16.92	17.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18675	18900	19125		18675	18900	19125	
15 MHz	1 (RB_Pos:0)	16.76	16.84	16.84	17.80	16.77	17.24	17.31	17.80
	1 (RB_Pos:38)	16.81	16.89	16.91	17.80	16.84	17.27	17.38	17.80
	1 (RB_Pos:74)	16.70	16.73	16.75	17.80	16.65	17.14	17.22	17.80
	36 (RB_Pos:0)	16.84	16.74	16.75	17.80	16.82	16.87	16.80	17.80
	36 (RB_Pos:20)	16.81	16.82	16.84	17.80	16.85	16.94	16.88	17.80
	36 (RB_Pos:39)	16.72	16.74	16.75	17.80	16.76	16.84	16.78	17.80
	75 (RB_Pos:0)	16.82	16.80	16.79	17.80	16.86	16.82	16.83	17.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18650	18900	19150		18650	18900	19150	
10 MHz	1 (RB_Pos:0)	16.81	16.78	16.80	17.80	16.81	17.24	16.94	17.80
	1 (RB_Pos:25)	16.84	16.90	16.88	17.80	16.84	17.24	16.99	17.80
	1 (RB_Pos:49)	16.70	16.78	16.80	17.80	16.77	17.21	16.95	17.80
	25 (RB_Pos:0)	16.85	16.70	16.79	17.80	16.86	16.83	17.00	17.80
	25 (RB_Pos:12)	16.89	16.86	16.87	17.80	16.95	16.96	17.05	17.80
	25 (RB_Pos:25)	16.76	16.81	16.72	17.80	16.84	16.88	16.92	17.80
	50 (RB_Pos:0)	16.81	16.77	16.77	17.80	16.80	16.81	16.84	17.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18625	18900	19175		18625	18900	19175	
5 MHz	1 (RB_Pos:0)	16.84	16.84	16.78	17.80	17.05	17.30	17.00	17.80
	1 (RB_Pos:13)	16.94	16.88	16.91	17.80	17.10	17.36	17.07	17.80
	1 (RB_Pos:24)	16.82	16.79	16.80	17.80	16.95	17.24	17.00	17.80
	12 (RB_Pos:0)	16.83	16.72	16.86	17.80	16.91	16.89	16.94	17.80

	12 (RB_Pos:6)	16.90	16.86	16.89	17.80	16.95	16.99	17.02	17.80
	12 (RB_Pos:13)	16.78	16.78	16.72	17.80	16.86	16.94	16.84	17.80
	25 (RB_Pos:0)	16.83	16.79	16.82	17.80	16.85	16.89	16.86	17.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18615	18900	19185		18615	18900	19185	
3.0 MHz	1 (RB_Pos:0)	16.50	16.51	16.45	17.80	16.56	16.94	16.66	17.80
	1 (RB_Pos:8)	16.56	16.61	16.60	17.80	16.58	17.04	16.69	17.80
	1 (RB_Pos:14)	16.44	16.51	16.43	17.80	16.46	16.89	16.58	17.80
	8 (RB_Pos:0)	16.78	16.74	16.72	17.80	16.93	16.87	16.82	17.80
	8 (RB_Pos:3)	16.80	16.80	16.76	17.80	16.92	16.91	16.84	17.80
	8 (RB_Pos:7)	16.70	16.72	16.72	17.80	16.81	16.78	16.75	17.80
	15 (RB_Pos:0)	16.76	16.68	16.77	17.80	16.77	16.74	16.77	17.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18607	18900	19193		18607	18900	19193	
1.4 MHz	1 (RB_Pos:0)	16.70	16.63	16.60	17.80	16.82	17.05	16.77	17.80
	1 (RB_Pos:3)	16.73	16.71	16.72	17.80	16.87	17.14	16.81	17.80
	1 (RB_Pos:5)	16.66	16.68	16.61	17.80	16.81	17.04	16.78	17.80
	3 (RB_Pos:0)	16.83	16.80	16.83	17.80	16.86	17.03	17.08	17.80
	3 (RB_Pos:1)	16.82	16.85	16.85	17.80	16.85	17.02	17.08	17.80
	3 (RB_Pos:3)	16.80	16.82	16.91	17.80	16.90	17.01	17.11	17.80
	6 (RB_Pos:0)	16.83	16.85	16.76	17.80	17.03	16.76	17.04	17.80

8.6.10 Power Reduced Level 4&5&6&7&8&9 of LTE Band 2

FDD LTE Band 2									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18700	18900	19100		18700	18900	19100	
20 MHz	1 (RB_Pos:0)	17.76	17.84	17.74	18.80	18.20	18.27	18.18	18.80
	1 (RB_Pos:50)	17.86	**17.96**	17.87	18.80	18.28	18.35	18.34	18.80
	1 (RB_Pos:99)	17.73	17.75	17.68	18.80	18.21	18.20	18.15	18.80
	50 (RB_Pos:0)	17.95	17.76	17.96	18.80	18.07	17.81	18.00	18.80
	50 (RB_Pos:25)	17.89	17.89	**18.00**	18.80	17.99	17.98	18.02	18.80
	50 (RB_Pos:50)	17.93	17.77	17.83	18.80	18.03	17.82	17.88	18.80
	100 (RB_Pos:0)	17.94	17.78	17.90	18.80	18.04	17.85	17.99	18.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18675	18900	19125		18675	18900	19125	
15 MHz	1 (RB_Pos:0)	17.77	17.84	17.78	18.80	17.86	18.30	18.27	18.80

	1 (RB_Pos:38)	17.82	17.90	17.89	18.80	17.90	18.32	17.42	18.80
	1 (RB_Pos:74)	17.68	17.80	17.74	18.80	17.76	18.17	18.19	18.80
	36 (RB_Pos:0)	17.85	17.78	17.82	18.80	17.90	17.89	17.86	18.80
	36 (RB_Pos:20)	17.84	17.89	17.87	18.80	17.91	17.96	17.90	18.80
	36 (RB_Pos:39)	17.73	17.87	17.76	18.80	17.82	17.86	17.79	18.80
	75 (RB_Pos:0)	17.87	17.86	17.83	18.80	17.86	17.85	17.83	18.80

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18650	18900	19150		18650	18900	19150	
10 MHz	1 (RB_Pos:0)	17.84	17.83	17.82	18.80	17.86	18.30	17.99	18.80
	1 (RB_Pos:25)	17.83	17.89	17.87	18.80	17.90	18.33	18.01	18.80
	1 (RB_Pos:49)	17.75	17.83	17.80	18.80	17.84	18.25	17.93	18.80
	25 (RB_Pos:0)	17.84	17.71	17.86	18.80	17.94	17.88	18.03	18.80
	25 (RB_Pos:12)	17.89	17.89	17.89	18.80	17.99	18.00	18.09	18.80
	25 (RB_Pos:25)	17.77	17.83	17.74	18.80	17.87	17.97	17.96	18.80
	50 (RB_Pos:0)	17.79	17.83	17.80	18.80	17.86	17.90	17.94	18.80

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18625	18900	19175		18625	18900	19175	
5 MHz	1 (RB_Pos:0)	17.74	17.77	17.76	18.80	18.02	18.19	18.00	18.80
	1 (RB_Pos:13)	17.84	17.90	17.87	18.80	18.18	18.37	18.15	18.80
	1 (RB_Pos:24)	17.78	17.77	17.79	18.80	18.02	18.22	18.02	18.80
	12 (RB_Pos:0)	17.81	17.77	17.85	18.80	17.93	17.94	18.03	18.80
	12 (RB_Pos:6)	17.86	17.89	17.88	18.80	17.98	18.06	18.02	18.80
	12 (RB_Pos:13)	17.77	17.80	17.76	18.80	17.89	17.98	17.88	18.80
	25 (RB_Pos:0)	17.83	17.80	17.82	18.80	17.92	17.93	17.90	18.80

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18615	18900	19185		18615	18900	19185	
3.0 MHz	1 (RB_Pos:0)	17.46	17.50	17.46	18.80	17.56	17.98	17.64	18.80
	1 (RB_Pos:8)	17.58	17.64	17.58	18.80	17.60	18.06	17.74	18.80
	1 (RB_Pos:14)	17.45	17.52	17.47	18.80	17.50	17.95	17.62	18.80
	8 (RB_Pos:0)	17.77	17.74	17.72	18.80	17.93	17.88	17.89	18.80
	8 (RB_Pos:3)	17.83	17.82	17.76	18.80	17.93	17.91	17.90	18.80
	8 (RB_Pos:7)	17.72	17.74	17.71	18.80	17.86	17.87	17.78	18.80
	15 (RB_Pos:0)	17.71	17.72	17.75	18.80	17.81	17.75	17.77	18.80

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18607	18900	19193		18607	18900	19193	
1.4 MHz	1 (RB_Pos:0)	17.63	17.67	17.61	18.80	17.88	18.05	17.79	18.80
	1 (RB_Pos:3)	17.70	17.72	17.68	18.80	17.95	18.14	17.85	18.80

	1 (RB_Pos:5)	17.65	17.65	17.63	18.80	17.85	18.07	17.82	18.80
	3 (RB_Pos:0)	17.86	17.81	17.87	18.80	17.92	18.04	18.09	18.80
	3 (RB_Pos:1)	17.85	17.85	17.87	18.80	17.92	18.05	18.11	18.80
	3 (RB_Pos:3)	17.81	17.81	17.91	18.80	17.94	18.03	18.11	18.80
	6 (RB_Pos:0)	17.86	17.86	17.82	18.80	18.03	17.80	18.08	18.80

8.6.11 Power Reduced Level 1&2&3 of LTE Band 4

FDD LTE Band 4									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20050	20175	20300		20050	20175	20300	
20 MHz	1 (RB_Pos:0)	16.66	16.73	16.64	17.80	17.15	17.21	17.08	17.80
	1 (RB_Pos:50)	16.84	**16.89**	16.76	17.80	17.30	17.37	17.23	17.80
	1 (RB_Pos:99)	16.63	16.64	16.43	17.80	17.12	17.08	16.92	17.80
	50 (RB_Pos:0)	16.71	16.75	16.77	17.80	16.78	16.83	16.80	17.80
	50 (RB_Pos:25)	16.85	16.83	16.76	17.80	16.92	16.89	16.76	17.80
	50 (RB_Pos:50)	16.86	16.73	16.62	17.80	16.90	16.77	16.65	17.80
	100 (RB_Pos:0)	16.80	16.73	16.73	17.80	16.87	16.78	16.74	17.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20025	20175	20325		20025	20175	20325	
15 MHz	1 (RB_Pos:0)	16.71	16.79	16.76	17.80	16.72	17.19	17.09	17.80
	1 (RB_Pos:38)	16.76	16.87	16.77	17.80	16.78	17.25	17.25	17.80
	1 (RB_Pos:74)	16.64	16.67	16.58	17.80	16.69	17.06	17.05	17.80
	36 (RB_Pos:0)	16.75	16.73	16.78	17.80	16.81	16.80	16.72	17.80
	36 (RB_Pos:20)	16.73	16.77	16.76	17.80	16.78	16.91	16.79	17.80
	36 (RB_Pos:39)	16.73	16.71	16.64	17.80	16.80	16.78	16.66	17.80
	75 (RB_Pos:0)	16.73	16.80	16.66	17.80	16.77	16.81	16.76	17.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20000	20175	20350		20000	20175	20350	
10 MHz	1 (RB_Pos:0)	16.71	16.85	16.73	17.80	16.75	17.24	16.82	17.80
	1 (RB_Pos:25)	16.74	16.84	16.74	17.80	16.80	17.25	16.81	17.80
	1 (RB_Pos:49)	16.71	16.77	16.65	17.80	16.76	17.12	16.70	17.80
	25 (RB_Pos:0)	16.70	16.73	16.72	17.80	16.80	16.83	16.86	17.80
	25 (RB_Pos:12)	16.81	16.77	16.74	17.80	16.86	16.92	16.89	17.80
	25 (RB_Pos:25)	16.78	16.76	16.63	17.80	16.85	16.82	16.73	17.80
	50 (RB_Pos:0)	16.81	16.78	16.69	17.80	16.84	16.81	16.74	17.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up	16QAM			Tune

	Channel	19975	20175	20375	limit (dBm)	19975	20175	20375	up limit (dBm)
5 MHz	1 (RB_Pos:0)	16.72	16.75	16.68	17.80	16.93	17.21	16.83	17.80
	1 (RB_Pos:13)	16.89	16.92	16.75	17.80	17.10	17.33	16.96	17.80
	1 (RB_Pos:24)	16.70	16.69	16.63	17.80	16.96	17.12	16.76	17.80
	12 (RB_Pos:0)	16.72	16.73	16.67	17.80	16.89	16.94	16.76	17.80
	12 (RB_Pos:6)	16.77	16.80	16.72	17.80	16.90	17.01	16.82	17.80
	12 (RB_Pos:13)	16.77	16.73	16.66	17.80	16.86	16.95	16.70	17.80
	25 (RB_Pos:0)	16.76	16.77	16.67	17.80	16.88	16.90	16.74	17.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19965	20175	20385		19965	20175	20385	
3.0 MHz	1 (RB_Pos:0)	16.40	16.49	16.35	17.80	16.46	16.90	16.44	17.80
	1 (RB_Pos:8)	16.51	16.52	16.45	17.80	16.55	16.97	16.54	17.80
	1 (RB_Pos:14)	16.40	16.46	16.27	17.80	16.45	16.86	16.42	17.80
	8 (RB_Pos:0)	16.70	16.69	16.56	17.80	16.84	16.82	16.69	17.80
	8 (RB_Pos:3)	16.67	16.71	16.61	17.80	16.81	16.87	16.67	17.80
	8 (RB_Pos:7)	16.60	16.63	16.55	17.80	16.78	16.75	16.65	17.80
	15 (RB_Pos:0)	16.66	16.66	16.59	17.80	16.73	16.68	16.55	17.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19957	20175	20393		19957	20175	20393	
1.4 MHz	1 (RB_Pos:0)	16.56	16.59	16.48	17.80	16.75	17.02	16.51	17.80
	1 (RB_Pos:3)	16.60	16.66	16.53	17.80	16.76	17.07	16.63	17.80
	1 (RB_Pos:5)	16.52	16.58	16.46	17.80	16.74	16.97	16.59	17.80
	3 (RB_Pos:0)	16.72	16.71	16.65	17.80	16.81	16.99	16.81	17.80
	3 (RB_Pos:1)	16.74	16.77	16.67	17.80	16.83	16.96	16.86	17.80
	3 (RB_Pos:3)	16.71	16.76	16.71	17.80	16.83	16.99	16.87	17.80
	6 (RB_Pos:0)	16.72	16.75	16.64	17.80	16.95	16.75	16.86	17.80

8.6.12 Power Reduced Level 4&5&6&7&8&9 of LTE Band 4

FDD LTE Band 4									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20050	20175	20300		20050	20175	20300	
20 MHz	1 (RB_Pos:0)	17.63	17.73	17.62	18.80	17.83	17.97	17.90	18.80
	1 (RB_Pos:50)	17.82	**17.89**	17.76	18.80	18.11	18.17	18.02	18.80
	1 (RB_Pos:99)	17.60	17.60	17.45	18.80	17.86	17.82	17.72	18.80
	50 (RB_Pos:0)	17.79	17.75	17.80	18.80	17.54	17.59	17.59	18.80
	50 (RB_Pos:25)	17.87	17.84	17.80	18.80	17.69	17.70	17.62	18.80
	50 (RB_Pos:50)	17.86	17.75	17.62	18.80	17.69	17.56	17.44	18.80

	100 (RB_Pos:0)	17.80	17.75	17.74	18.80	17.63	17.54	17.56	18.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20025	20175	20325		20025	20175	20325	
15 MHz	1 (RB_Pos:0)	17.68	17.78	17.74	18.80	17.55	18.00	17.94	18.80
	1 (RB_Pos:38)	17.76	17.86	17.77	18.80	17.64	18.05	18.02	18.80
	1 (RB_Pos:74)	17.65	17.65	17.51	18.80	17.53	17.89	17.76	18.80
	36 (RB_Pos:0)	17.71	17.79	17.75	18.80	17.57	17.61	17.60	18.80
	36 (RB_Pos:20)	17.77	17.87	17.78	18.80	17.62	17.69	17.58	18.80
	36 (RB_Pos:39)	17.78	17.76	17.67	18.80	17.60	17.60	17.47	18.80
	75 (RB_Pos:0)	17.80	17.78	17.73	18.80	17.57	17.61	17.56	18.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20000	20175	20350		20000	20175	20350	
10 MHz	1 (RB_Pos:0)	17.70	17.80	17.71	18.80	17.57	17.99	17.60	18.80
	1 (RB_Pos:25)	17.75	17.83	17.73	18.80	17.60	18.04	17.62	18.80
	1 (RB_Pos:49)	17.69	17.71	17.61	18.80	17.60	17.99	17.48	18.80
	25 (RB_Pos:0)	17.68	17.70	17.67	18.80	17.53	17.63	17.69	18.80
	25 (RB_Pos:12)	17.80	17.75	17.68	18.80	17.67	17.69	17.63	18.80
	25 (RB_Pos:25)	17.76	17.77	17.61	18.80	17.64	17.67	17.58	18.80
	50 (RB_Pos:0)	17.77	17.75	17.67	18.80	17.51	17.60	17.52	18.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19975	20175	20375		19975	20175	20375	
5 MHz	1 (RB_Pos:0)	17.68	17.75	17.65	18.80	17.72	18.02	17.63	18.80
	1 (RB_Pos:13)	17.86	17.86	17.71	18.80	17.88	18.08	17.79	18.80
	1 (RB_Pos:24)	17.68	17.68	17.53	18.80	17.72	17.95	17.62	18.80
	12 (RB_Pos:0)	17.70	17.72	17.63	18.80	17.61	17.75	17.59	18.80
	12 (RB_Pos:6)	17.78	17.76	17.73	18.80	17.68	17.79	17.59	18.80
	12 (RB_Pos:13)	17.77	17.74	17.59	18.80	17.71	17.67	17.50	18.80
	25 (RB_Pos:0)	17.71	17.76	17.64	18.80	17.64	17.69	17.44	18.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19965	20175	20385		19965	20175	20385	
3.0 MHz	1 (RB_Pos:0)	17.36	17.44	17.34	18.80	17.25	17.70	17.25	18.80
	1 (RB_Pos:8)	17.49	17.57	17.43	18.80	17.36	17.78	17.39	18.80
	1 (RB_Pos:14)	17.37	17.43	17.28	18.80	17.20	17.68	17.19	18.80
	8 (RB_Pos:0)	17.66	17.66	17.58	18.80	17.64	17.66	17.43	18.80
	8 (RB_Pos:3)	17.69	17.73	17.60	18.80	17.65	17.64	17.49	18.80
	8 (RB_Pos:7)	17.56	17.65	17.55	18.80	17.60	17.58	17.42	18.80
	15 (RB_Pos:0)	17.66	17.66	17.58	18.80	17.49	17.52	17.33	18.80

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19957	20175	20393		19957	20175	20393	
1.4 MHz	1 (RB_Pos:0)	17.54	17.60	17.44	18.80	17.55	17.82	17.35	18.80
	1 (RB_Pos:3)	17.59	17.65	17.51	18.80	17.62	17.88	17.43	18.80
	1 (RB_Pos:5)	17.52	17.60	17.43	18.80	17.56	17.80	17.39	18.80
	3 (RB_Pos:0)	17.70	17.78	17.67	18.80	17.51	17.74	17.60	18.80
	3 (RB_Pos:1)	17.74	17.78	17.67	18.80	17.59	17.75	17.65	18.80
	3 (RB_Pos:3)	17.72	17.75	17.67	18.80	17.59	17.77	17.62	18.80
	6 (RB_Pos:0)	17.70	17.76	17.64	18.80	17.75	17.53	17.73	18.80

8.6.13 Power Reduced Level 1&2&3 of LTE Band 5

FDD LTE Band 5									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20450	20525	20600		20450	20525	20600	
10 MHz	1 (RB_Pos:0)	22.21	22.19	22.15	23.10	21.16	21.55	21.19	22.10
	1 (RB_Pos:25)	22.19	**22.22**	22.16	23.10	21.16	21.64	21.23	22.10
	1 (RB_Pos:49)	22.18	22.15	22.09	23.10	21.16	21.54	21.16	22.10
	25 (RB_Pos:0)	21.16	21.11	21.13	22.10	20.25	20.23	20.30	21.10
	25 (RB_Pos:12)	21.20	21.19	**21.25**	22.10	20.29	20.31	20.33	21.10
	25 (RB_Pos:25)	21.22	21.13	21.06	22.10	20.27	20.22	20.22	21.10
	50 (RB_Pos:0)	21.22	21.15	21.10	22.10	20.22	20.19	20.18	21.10
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20425	20525	20625		20425	20525	20625	
5MHz	1 (RB_Pos:0)	22.19	22.16	22.08	23.10	21.33	21.66	21.21	22.10
	1 (RB_Pos:13)	22.30	22.20	22.13	23.10	21.44	21.76	21.32	22.10
	1 (RB_Pos:24)	22.17	22.14	21.98	23.10	21.35	21.65	21.18	22.10
	12 (RB_Pos:0)	21.17	21.11	21.07	22.10	20.31	20.31	20.22	21.10
	12 (RB_Pos:6)	21.20	21.18	21.09	22.10	20.36	20.36	20.19	21.10
	12 (RB_Pos:13)	21.21	21.14	21.06	22.10	20.29	20.23	20.10	21.10
	25 (RB_Pos:0)	21.21	21.16	21.07	22.10	20.29	20.25	20.12	21.10
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20415	20525	20635		20415	20525	20635	
3.0 MHz	1 (RB_Pos:0)	21.92	21.86	21.77	23.10	20.86	21.28	20.88	22.10
	1 (RB_Pos:8)	22.00	21.95	21.85	23.10	20.93	21.37	20.90	22.10
	1 (RB_Pos:14)	21.87	21.84	21.77	23.10	20.83	21.24	20.80	22.10
	8 (RB_Pos:0)	21.21	21.09	20.99	22.10	20.28	20.17	20.06	21.10

	8 (RB_Pos:3)	21.16	21.08	21.01	22.10	20.31	20.26	20.09	21.10
	8 (RB_Pos:7)	21.09	21.05	20.95	22.10	20.21	20.14	20.03	21.10
	15 (RB_Pos:0)	21.10	21.03	20.99	22.10	20.19	20.08	19.95	21.10
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20407	20525	20643		20407	20525	20643	
1.4MHz	1 (RB_Pos:0)	22.00	21.96	21.89	23.10	21.19	21.34	20.92	22.10
	1 (RB_Pos:3)	22.06	22.05	21.92	23.10	21.22	21.40	20.98	22.10
	1 (RB_Pos:5)	22.03	21.98	21.81	23.10	21.18	21.42	20.96	22.10
	3 (RB_Pos:0)	22.18	22.10	22.01	23.10	21.24	21.33	21.22	22.10
	3 (RB_Pos:1)	22.21	22.15	22.01	23.10	21.24	21.28	21.21	22.10
	3 (RB_Pos:3)	22.18	22.14	22.01	23.10	21.25	21.30	21.19	22.10
	6 (RB_Pos:0)	21.22	21.17	20.98	22.10	20.40	20.09	20.25	21.10

8.6.14 Power Reduced Level 1&2&3 of LTE Band 7

FDD LTE Band 7									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20850	21100	21350		20850	21100	21350	
20MHz	1 (RB_Pos:0)	16.32	16.30	16.22	17.60	16.78	16.70	16.68	17.60
	1 (RB_Pos:50)	16.43	16.46	16.46	17.60	16.87	16.92	16.88	17.60
	1 (RB_Pos:99)	16.21	16.24	16.22	17.60	16.70	16.72	16.67	17.60
	50 (RB_Pos:0)	16.39	16.37	16.40	17.60	16.39	16.42	16.42	17.60
	50 (RB_Pos:25)	16.49	16.41	**16.50**	17.60	16.53	16.48	16.49	17.60
	50 (RB_Pos:50)	16.43	16.35	16.37	17.60	16.44	16.35	16.38	17.60
	100 (RB_Pos:0)	16.32	16.32	16.45	17.60	16.43	16.37	16.40	17.60
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20825	21100	21375		20825	21100	21375	
15MHz	1 (RB_Pos:0)	16.34	16.36	16.39	17.60	16.34	16.75	16.86	17.60
	1 (RB_Pos:38)	16.41	16.43	16.44	17.60	16.43	16.81	16.86	17.60
	1 (RB_Pos:74)	16.22	16.25	16.32	17.60	16.25	16.67	16.72	17.60
	36 (RB_Pos:0)	16.35	16.35	16.42	17.60	16.38	16.39	16.43	17.60
	36 (RB_Pos:20)	16.36	16.33	16.47	17.60	16.46	16.47	16.44	17.60
	36 (RB_Pos:39)	16.36	16.34	16.33	17.60	16.41	16.41	16.34	17.60
	75 (RB_Pos:0)	16.43	16.34	16.40	17.60	16.44	16.40	16.41	17.60
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20800	21100	21400		20800	21100	21400	
10MHz	1 (RB_Pos:0)	16.47	16.36	16.46	17.60	16.42	16.76	16.51	17.60

	1 (RB_Pos:25)	16.44	16.42	16.51	17.60	16.43	16.77	16.55	17.60
	1 (RB_Pos:49)	16.34	16.35	16.37	17.60	16.37	16.73	16.45	17.60
	25 (RB_Pos:0)	16.42	16.36	16.45	17.60	16.50	16.48	16.56	17.60
	25 (RB_Pos:12)	16.49	16.37	16.44	17.60	16.55	16.51	16.57	17.60
	25 (RB_Pos:25)	16.48	16.36	16.38	17.60	16.55	16.48	16.46	17.60
	50 (RB_Pos:0)	16.44	16.40	16.47	17.60	16.46	16.47	16.49	17.60
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20775	21100	21425		20775	21100	21425	
5MHz	1 (RB_Pos:0)	16.38	16.31	16.34	17.60	16.53	16.76	16.51	17.60
	1 (RB_Pos:13)	16.51	16.50	16.49	17.60	16.67	16.98	16.61	17.60
	1 (RB_Pos:24)	16.38	16.25	16.34	17.60	16.58	16.71	16.50	17.60
	12 (RB_Pos:0)	16.38	16.38	16.39	17.60	16.48	16.50	16.48	17.60
	12 (RB_Pos:6)	16.49	16.39	16.44	17.60	16.58	16.54	16.50	17.60
	12 (RB_Pos:13)	16.40	16.33	16.38	17.60	16.49	16.53	16.43	17.60
	25 (RB_Pos:0)	16.42	16.38	16.40	17.60	16.51	16.49	16.40	17.60

8.6.15 Power Reduced Level 4&5&6 of LTE Band 7

FDD LTE Band 7									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20850	21100	21350		20850	21100	21350	
20MHz	1 (RB_Pos:0)	17.27	17.28	17.23	18.60	17.74	17.69	17.62	18.60
	1 (RB_Pos:50)	17.41	17.39	17.45	18.60	17.89	17.88	17.86	18.60
	1 (RB_Pos:99)	17.14	17.20	17.16	18.60	17.58	17.66	17.62	18.60
	50 (RB_Pos:0)	17.33	17.33	17.42	18.60	17.40	17.41	17.45	18.60
	50 (RB_Pos:25)	17.42	17.38	**17.47**	18.60	17.52	17.48	17.49	18.60
	50 (RB_Pos:50)	17.38	17.30	17.33	18.60	17.46	17.35	17.39	18.60
	100 (RB_Pos:0)	17.33	17.30	17.35	18.60	17.41	17.35	17.41	18.60
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20825	21100	21375		20825	21100	21375	
15MHz	1 (RB_Pos:0)	17.33	17.33	17.36	18.60	17.34	17.71	17.79	18.60
	1 (RB_Pos:38)	17.38	17.39	17.43	18.60	17.41	17.82	17.90	18.60
	1 (RB_Pos:74)	17.22	17.22	17.32	18.60	17.28	17.70	17.74	18.60
	36 (RB_Pos:0)	17.36	17.36	17.41	18.60	17.36	17.38	17.41	18.60
	36 (RB_Pos:20)	17.37	17.34	17.45	18.60	17.44	17.44	17.44	18.60
	36 (RB_Pos:39)	17.37	17.27	17.32	18.60	17.39	17.37	17.34	18.60
	75 (RB_Pos:0)	17.41	17.31	17.35	18.60	17.43	17.36	17.39	18.60
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune	16QAM			Tune up

	Channel	20800	21100	21400	up limit (dBm)	20800	21100	21400	limit (dBm)
10MHz	1 (RB_Pos:0)	17.43	17.36	17.43	18.60	17.42	17.75	17.52	18.60
	1 (RB_Pos:25)	17.45	17.32	17.47	18.60	17.45	17.80	17.57	18.60
	1 (RB_Pos:49)	17.35	17.30	17.36	18.60	17.38	17.72	17.47	18.60
	25 (RB_Pos:0)	17.41	17.30	17.40	18.60	17.49	17.49	17.62	18.60
	25 (RB_Pos:12)	17.44	17.36	17.42	18.60	17.58	17.46	17.58	18.60
	25 (RB_Pos:25)	17.46	17.34	17.32	18.60	17.54	17.47	17.51	18.60
	50 (RB_Pos:0)	17.44	17.35	17.39	18.60	17.48	17.41	17.52	18.60
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20775	21100	21425		20775	21100	21425	
5MHz	1 (RB_Pos:0)	17.32	17.28	17.35	18.60	17.52	17.73	17.53	18.60
	1 (RB_Pos:13)	17.45	17.41	17.47	18.60	17.62	17.87	17.63	18.60
	1 (RB_Pos:24)	17.32	17.27	17.33	18.60	17.57	17.68	17.55	18.60
	12 (RB_Pos:0)	17.37	17.31	17.39	18.60	17.43	17.50	17.49	18.60
	12 (RB_Pos:6)	17.43	17.38	17.42	18.60	17.56	17.56	17.54	18.60
	12 (RB_Pos:13)	17.39	17.28	17.35	18.60	17.53	17.48	17.43	18.60
	25 (RB_Pos:0)	17.40	17.35	17.39	18.60	17.50	17.48	17.43	18.60

8.6.16 Power Reduced Level 7&8&9 of LTE Band 7

FDD LTE Band 7									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20850	21100	21350		20850	21100	21350	
20MHz	1 (RB_Pos:0)	18.62	18.79	18.78	20.60	19.06	19.21	19.23	20.60
	1 (RB_Pos:50)	19.43	18.90	19.34	20.60	19.85	19.24	19.25	20.60
	1 (RB_Pos:99)	18.99	18.59	18.94	20.60	19.27	18.82	19.05	20.60
	50 (RB_Pos:0)	19.04	19.02	**19.44**	20.60	19.25	19.28	19.09	20.60
	50 (RB_Pos:25)	19.09	18.77	18.88	20.60	18.99	18.94	18.89	20.60
	50 (RB_Pos:50)	19.38	18.80	19.18	20.60	19.18	18.66	19.17	20.60
	100 (RB_Pos:0)	18.75	19.38	18.91	20.60	19.12	19.42	18.95	20.60
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20825	21100	21375		20825	21100	21375	
15MHz	1 (RB_Pos:0)	18.74	18.84	18.92	20.60	19.10	19.26	19.36	20.60
	1 (RB_Pos:38)	18.89	19.10	19.09	20.60	19.10	19.42	19.06	20.60
	1 (RB_Pos:74)	18.70	18.57	19.03	20.60	19.07	18.92	19.47	20.60
	36 (RB_Pos:0)	19.00	19.30	19.04	20.60	18.85	18.88	18.95	20.60
	36 (RB_Pos:20)	18.87	19.29	19.38	20.60	18.95	19.42	19.37	20.60
	36 (RB_Pos:39)	18.81	19.12	18.87	20.60	18.73	18.91	18.73	20.60

	75 (RB_Pos:0)	18.75	19.39	18.98	20.60	18.97	19.07	18.85	20.60
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20800	21100	21400		20800	21100	21400	
10MHz	1 (RB_Pos:0)	19.33	18.77	18.93	20.60	18.76	19.12	19.42	20.60
	1 (RB_Pos:25)	19.31	19.08	18.98	20.60	18.92	19.49	19.40	20.60
	1 (RB_Pos:49)	18.65	19.34	18.71	20.60	19.10	19.30	18.95	20.60
	25 (RB_Pos:0)	19.33	19.18	19.30	20.60	19.37	19.18	19.22	20.60
	25 (RB_Pos:12)	19.02	19.28	18.97	20.60	19.43	18.95	19.36	20.60
	25 (RB_Pos:25)	19.24	19.41	19.25	20.60	18.88	19.46	18.96	20.60
	50 (RB_Pos:0)	19.28	18.88	19.15	20.60	19.28	19.31	19.44	20.60
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20775	21100	21425		20775	21100	21425	
5MHz	1 (RB_Pos:0)	19.38	19.35	19.22	20.60	19.58	19.56	19.32	20.60
	1 (RB_Pos:13)	19.21	19.31	18.78	20.60	18.92	19.59	19.19	20.60
	1 (RB_Pos:24)	18.96	18.60	18.66	20.60	19.40	19.02	18.99	20.60
	12 (RB_Pos:0)	19.35	18.87	18.83	20.60	18.78	18.94	19.31	20.60
	12 (RB_Pos:6)	19.51	18.74	18.77	20.60	18.90	18.91	19.19	20.60
	12 (RB_Pos:13)	18.73	19.35	19.21	20.60	19.21	18.91	18.91	20.60
	25 (RB_Pos:0)	18.78	19.00	19.04	20.60	18.91	18.91	19.25	20.60

8.6.17 Power Reduced Level 1&2&3 of LTE Band 38

TDD LTE Band 38									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37850	38000	38150		37850	38000	38150	
20MHz	1 (RB_Pos:0)	19.00	18.92	19.03	19.80	19.32	19.15	19.34	19.80
	1 (RB_Pos:50)	**19.25**	19.17	19.17	19.80	19.47	19.37	19.55	19.80
	1 (RB_Pos:99)	18.98	18.95	19.04	19.80	19.22	19.17	19.40	19.80
	50 (RB_Pos:0)	19.06	19.00	19.01	19.80	19.08	19.02	19.05	19.80
	50 (RB_Pos:25)	19.15	19.14	19.13	19.80	19.11	19.17	19.17	19.80
	50 (RB_Pos:50)	19.13	19.07	19.08	19.80	19.05	19.14	19.17	19.80
	100 (RB_Pos:0)	19.06	19.06	19.04	19.80	19.03	19.11	19.07	19.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37825	38000	38175		37825	38000	38175	
15MHz	1 (RB_Pos:0)	19.09	19.05	19.12	19.80	19.40	19.49	19.38	19.80
	1 (RB_Pos:38)	19.18	19.17	19.17	19.80	19.41	19.59	19.47	19.80
	1 (RB_Pos:74)	19.02	19.12	19.10	19.80	19.27	19.52	19.38	19.80

	36 (RB_Pos:0)	19.08	19.02	19.00	19.80	19.10	19.00	19.07	19.80
	36 (RB_Pos:20)	19.11	19.07	19.09	19.80	19.15	19.08	19.15	19.80
	36 (RB_Pos:39)	19.05	19.09	19.06	19.80	19.04	19.08	19.13	19.80
	75 (RB_Pos:0)	19.12	19.10	19.06	19.80	19.12	19.11	19.08	19.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37800	38000	38200		37800	38000	38200	
10MHz	1 (RB_Pos:0)	19.12	19.09	19.11	19.80	19.43	19.52	19.45	19.80
	1 (RB_Pos:25)	19.20	19.19	19.18	19.80	19.44	19.59	19.53	19.80
	1 (RB_Pos:49)	19.07	19.15	19.11	19.80	19.30	19.54	19.52	19.80
	25 (RB_Pos:0)	19.09	19.01	19.01	19.80	19.14	19.04	19.06	19.80
	25 (RB_Pos:12)	19.15	19.09	19.11	19.80	19.19	19.10	19.17	19.80
	25 (RB_Pos:25)	19.12	19.11	19.10	19.80	19.15	19.12	19.18	19.80
	50 (RB_Pos:0)	19.13	19.09	19.10	19.80	19.12	19.14	19.17	19.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37775	38000	38225		37775	38000	38225	
5MHz	1 (RB_Pos:0)	19.09	19.00	19.00	19.80	19.27	19.27	19.37	19.80
	1 (RB_Pos:13)	19.18	19.14	19.17	19.80	19.38	19.42	19.55	19.80
	1 (RB_Pos:24)	19.05	19.00	19.04	19.80	19.27	19.27	19.42	19.80
	12 (RB_Pos:0)	19.09	19.01	19.05	19.80	19.15	19.03	19.15	19.80
	12 (RB_Pos:6)	19.15	19.11	19.12	19.80	19.19	19.08	19.22	19.80
	12 (RB_Pos:13)	19.09	19.04	19.06	19.80	19.11	19.03	19.18	19.80
	25 (RB_Pos:0)	19.07	19.04	19.05	19.80	19.15	19.11	19.10	19.80

8.6.18 Power Reduced Level 4&5&6&7&8&9 of LTE Band 38

TDD LTE Band 38									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37850	38000	38150		37850	38000	38150	
20MHz	1 (RB_Pos:0)	19.91	19.88	19.97	20.80	20.20	20.09	20.26	20.80
	1 (RB_Pos:50)	**20.18**	20.10	20.14	20.80	20.44	20.29	20.48	20.80
	1 (RB_Pos:99)	19.94	19.91	20.04	20.80	20.21	20.10	20.32	20.80
	50 (RB_Pos:0)	19.99	19.97	19.92	20.80	20.00	19.95	20.00	20.80
	50 (RB_Pos:25)	20.10	20.09	20.04	20.80	20.08	20.10	20.08	20.80
	50 (RB_Pos:50)	20.04	20.08	20.01	20.80	20.03	20.05	20.06	20.80
	100 (RB_Pos:0)	20.03	20.02	19.96	20.80	20.02	20.00	19.98	20.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37825	38000	38175		37825	38000	38175	

15MHz	1 (RB_Pos:0)	20.02	20.02	20.01	20.80	20.28	20.44	20.31	20.80
	1 (RB_Pos:38)	20.13	20.10	20.13	20.80	20.38	20.54	20.42	20.80
	1 (RB_Pos:74)	20.02	19.99	20.01	20.80	20.22	20.43	20.30	20.80
	36 (RB_Pos:0)	20.01	19.97	19.95	20.80	20.00	19.94	19.99	20.80
	36 (RB_Pos:20)	20.04	20.02	20.02	20.80	20.06	20.02	20.09	20.80
	36 (RB_Pos:39)	20.00	19.97	20.00	20.80	20.03	19.96	20.05	20.80
	75 (RB_Pos:0)	20.02	20.00	20.01	20.80	20.05	20.00	20.03	20.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37800	38000	38200		37800	38000	38200	
10MHz	1 (RB_Pos:0)	20.07	20.03	20.05	20.80	20.30	20.46	20.41	20.80
	1 (RB_Pos:25)	20.15	20.11	20.13	20.80	20.42	20.50	20.43	20.80
	1 (RB_Pos:49)	20.01	20.06	20.05	20.80	20.33	20.45	20.43	20.80
	25 (RB_Pos:0)	20.00	19.96	19.98	20.80	20.04	20.00	20.04	20.80
	25 (RB_Pos:12)	20.05	20.03	20.04	20.80	20.13	20.04	20.07	20.80
	25 (RB_Pos:25)	20.04	20.01	19.99	20.80	20.07	20.06	20.04	20.80
	50 (RB_Pos:0)	20.03	20.04	20.01	20.80	20.06	20.02	20.08	20.80
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37775	38000	38225		37775	38000	38225	
5MHz	1 (RB_Pos:0)	19.96	19.94	19.96	20.80	20.26	20.32	20.15	20.80
	1 (RB_Pos:13)	20.10	20.10	20.07	20.80	20.42	20.43	20.29	20.80
	1 (RB_Pos:24)	19.98	19.94	19.95	20.80	20.29	20.35	20.17	20.80
	12 (RB_Pos:0)	19.96	19.96	19.96	20.80	19.97	20.04	19.98	20.80
	12 (RB_Pos:6)	20.03	20.00	20.02	20.80	20.04	20.12	20.05	20.80
	12 (RB_Pos:13)	19.98	19.97	19.97	20.80	20.00	20.07	20.00	20.80
	25 (RB_Pos:0)	19.97	19.97	19.95	20.80	20.05	20.01	19.95	20.80

8.6.19 Power Reduced Level 1&2&3 of LTE Band 41

TDD LTE Band 41										
Bandwidth (MHz)	RB Set	Power (dBm)								
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40140	40473	40807	41140		40140	40473	40807	41140	
20MHz	1 (RB_Pos:0)	18.21	18.24	18.06	18.41	19.10	18.55	18.48	18.48	18.77	19.10
	1 (RB_Pos:50)	18.46	18.47	18.42	18.67	19.10	18.79	18.72	18.58	18.97	19.10
	1 (RB_Pos:99)	18.27	18.28	18.15	18.48	19.10	18.59	18.52	18.49	18.81	19.10
	50 (RB_Pos:0)	18.31	18.32	18.27	18.48	19.10	18.33	18.37	18.30	18.56	19.10
	50 (RB_Pos:25)	18.43	18.46	18.33	**18.51**	19.10	18.42	18.46	18.37	18.57	19.10
	50 (RB_Pos:50)	18.39	18.43	18.33	18.38	19.10	18.37	18.44	18.39	18.47	19.10
	100 (RB_Pos:0)	18.34	18.39	18.24	18.45	19.10	18.34	18.41	18.24	18.45	19.10
Bandwidth	RB Set	Power (dBm)									

(MHz)		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40115	40465	40815	41165		40115	40465	40815	41165	
15MHz	1 (RB_Pos:0)	18.35	18.40	18.29	18.44	19.10	18.65	18.87	18.77	18.73	19.10
	1 (RB_Pos:38)	18.49	18.51	18.43	18.56	19.10	18.74	18.95	18.82	18.89	19.10
	1 (RB_Pos:74)	18.34	18.37	18.31	18.41	19.10	18.64	18.86	18.83	18.77	19.10
	36 (RB_Pos:0)	18.32	18.31	18.19	18.43	19.10	18.32	18.33	18.21	18.51	19.10
	36 (RB_Pos:20)	18.34	18.38	18.22	18.47	19.10	18.39	18.40	18.23	18.52	19.10
	36 (RB_Pos:39)	18.31	18.35	18.24	18.41	19.10	18.35	18.40	18.37	18.47	19.10
	75 (RB_Pos:0)	18.35	18.38	18.23	18.43	19.10	18.33	18.38	18.34	18.42	19.10
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40090	40457	40823	41190		40090	40457	40823	41190	
10MHz	1 (RB_Pos:0)	18.38	18.44	18.24	18.54	19.10	18.62	18.86	18.72	18.89	19.10
	1 (RB_Pos:25)	18.42	18.52	18.50	18.58	19.10	18.69	18.92	18.72	19.00	19.10
	1 (RB_Pos:49)	18.40	18.40	18.29	18.54	19.10	18.68	18.84	18.76	18.93	19.10
	25 (RB_Pos:0)	18.34	18.36	18.28	18.50	19.10	18.38	18.38	18.29	18.56	19.10
	25 (RB_Pos:12)	18.38	18.41	18.25	18.48	19.10	18.41	18.46	18.46	18.58	19.10
	25 (RB_Pos:25)	18.32	18.38	18.30	18.46	19.10	18.36	18.45	18.25	18.49	19.10
	50 (RB_Pos:0)	18.36	18.40	18.25	18.48	19.10	18.36	18.43	18.39	18.54	19.10
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40065	40448	40832	41215		40065	40448	40832	41215	
5MHz	1 (RB_Pos:0)	18.29	18.29	18.14	18.43	19.10	18.50	18.62	18.52	18.79	19.10
	1 (RB_Pos:13)	18.38	18.43	18.33	18.57	19.10	18.65	18.79	18.73	18.96	19.10
	1 (RB_Pos:24)	18.27	18.28	18.11	18.46	19.10	18.51	18.60	18.59	18.83	19.10
	12 (RB_Pos:0)	18.31	18.31	18.30	18.45	19.10	18.36	18.31	18.31	18.57	19.10
	12 (RB_Pos:6)	18.37	18.38	18.27	18.51	19.10	18.42	18.42	18.35	18.63	19.10
	12 (RB_Pos:13)	18.29	18.34	18.28	18.42	19.10	18.35	18.38	18.24	18.55	19.10
	25 (RB_Pos:0)	18.31	18.32	18.28	18.48	19.10	18.34	18.43	18.28	18.49	19.10

8.6.20 Power Reduced Level 4&5&6 of LTE Band 41

TDD LTE Band 41											
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40140	40473	40807	41140		40140	40473	40807	41140	
20MHz	1 (RB_Pos:0)	18.68	18.54	18.52	18.86	19.60	18.91	18.81	18.71	19.08	19.60
	1 (RB_Pos:50)	18.84	18.81	18.75	**19.03**	19.60	19.16	19.06	18.96	19.33	19.60
	1 (RB_Pos:99)	18.66	18.61	18.50	18.85	19.60	18.92	18.88	18.83	19.21	19.60
	50 (RB_Pos:0)	18.78	18.69	18.67	18.88	19.60	18.77	18.68	18.60	18.94	19.60
	50 (RB_Pos:25)	18.85	18.81	18.62	18.90	19.60	18.85	18.83	18.73	18.92	19.60

	50 (RB_Pos:50)	18.74	18.82	18.75	18.80	19.60	18.71	18.79	18.72	18.83	19.60
	100 (RB_Pos:0)	18.78	18.74	18.60	18.83	19.60	18.76	18.76	18.71	18.84	19.60
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40115	40465	40815	41165		40115	40465	40815	41165	
15MHz	1 (RB_Pos:0)	18.78	18.73	18.55	18.79	19.60	19.04	19.19	19.15	19.08	19.60
	1 (RB_Pos:38)	18.87	18.87	18.81	18.94	19.60	19.12	19.30	19.26	19.23	19.60
	1 (RB_Pos:74)	18.73	18.72	18.62	18.83	19.60	18.98	19.17	19.14	19.10	19.60
	36 (RB_Pos:0)	18.75	18.70	18.59	18.79	19.60	18.74	18.70	18.58	18.84	19.60
	36 (RB_Pos:20)	18.79	18.75	18.61	18.85	19.60	18.79	18.75	18.64	18.88	19.60
	36 (RB_Pos:39)	18.73	18.74	18.61	18.81	19.60	18.75	18.75	18.65	18.85	19.60
	75 (RB_Pos:0)	18.76	18.74	18.74	18.83	19.60	18.78	18.75	18.75	18.86	19.60
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40090	40457	40823	41190		40090	40457	40823	41190	
10MHz	1 (RB_Pos:0)	18.78	18.78	18.68	18.92	19.60	19.05	19.24	19.23	19.27	19.60
	1 (RB_Pos:25)	18.88	18.84	18.84	18.97	19.60	19.11	19.27	19.21	19.32	19.60
	1 (RB_Pos:49)	18.80	18.82	18.78	18.91	19.60	19.11	19.24	19.08	19.30	19.60
	25 (RB_Pos:0)	18.77	18.72	18.60	18.86	19.60	18.81	18.74	18.70	18.93	19.60
	25 (RB_Pos:12)	18.81	18.79	18.74	18.90	19.60	18.87	18.80	18.76	18.93	19.60
	25 (RB_Pos:25)	18.80	18.76	18.74	18.84	19.60	18.84	18.82	18.77	18.90	19.60
	50 (RB_Pos:0)	18.82	18.76	18.74	18.86	19.60	18.81	18.78	18.70	18.89	19.60
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40065	40448	40832	41215		40065	40448	40832	41215	
5MHz	1 (RB_Pos:0)	18.78	18.67	18.51	18.80	19.60	18.98	19.00	18.91	19.18	19.60
	1 (RB_Pos:13)	18.92	18.81	18.63	18.97	19.60	19.13	19.14	19.09	19.34	19.60
	1 (RB_Pos:24)	18.79	18.69	18.61	18.84	19.60	19.01	18.98	18.80	19.22	19.60
	12 (RB_Pos:0)	18.78	18.70	18.53	18.85	19.60	18.84	18.69	18.54	18.94	19.60
	12 (RB_Pos:6)	18.87	18.77	18.58	18.89	19.60	18.89	18.77	18.76	18.99	19.60
	12 (RB_Pos:13)	18.82	18.73	18.69	18.81	19.60	18.86	18.75	18.68	18.95	19.60
	25 (RB_Pos:0)	18.83	18.74	18.57	18.83	19.60	18.85	18.77	18.69	18.87	19.60

8.6.21 Power Reduced Level 7&8&9 of LTE Band 41

TDD LTE Band 41											
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40140	40473	40807	41140		40140	40473	40807	41140	
20MHz	1 (RB_Pos:0)	19.62	19.52	19.35	19.73	20.60	19.94	19.74	19.74	20.07	20.60
	1 (RB_Pos:50)	19.80	19.76	19.60	**19.97**	20.60	20.09	20.00	19.97	20.28	20.60

	1 (RB_Pos:99)	19.63	19.55	19.50	19.79	20.60	19.90	19.80	19.76	20.11	20.60
	50 (RB_Pos:0)	19.69	19.64	19.58	19.83	20.60	19.69	19.67	19.49	19.89	20.60
	50 (RB_Pos:25)	19.77	19.76	19.73	19.85	20.60	19.78	19.78	19.62	19.90	20.60
	50 (RB_Pos:50)	19.66	19.74	19.71	19.73	20.60	19.67	19.76	19.62	19.79	20.60
	100 (RB_Pos:0)	19.70	19.67	19.57	19.77	20.60	19.70	19.68	19.56	19.80	20.60
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40115	40465	40815	41165		40115	40465	40815	41165	
15MHz	1 (RB_Pos:0)	19.74	19.66	19.47	19.76	20.60	20.01	20.11	20.04	20.04	20.60
	1 (RB_Pos:38)	19.87	19.82	19.73	19.86	20.60	20.13	20.29	20.25	20.20	20.60
	1 (RB_Pos:74)	19.67	19.71	19.52	19.77	20.60	19.94	20.13	20.10	20.09	20.60
	36 (RB_Pos:0)	19.71	19.66	19.46	19.76	20.60	19.71	19.64	19.51	19.80	20.60
	36 (RB_Pos:20)	19.80	19.73	19.61	19.81	20.60	19.79	19.73	19.66	19.83	20.60
	36 (RB_Pos:39)	19.72	19.71	19.53	19.72	20.60	19.74	19.72	19.53	19.77	20.60
	75 (RB_Pos:0)	19.75	19.72	19.56	19.78	20.60	19.74	19.72	19.54	19.74	20.60
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40090	40457	40823	41190		40090	40457	40823	41190	
10MHz	1 (RB_Pos:0)	19.77	19.72	19.64	19.87	20.60	20.04	20.14	20.08	20.24	20.60
	1 (RB_Pos:25)	19.82	19.77	19.64	19.92	20.60	20.12	20.23	20.14	20.32	20.60
	1 (RB_Pos:49)	19.77	19.75	19.72	19.88	20.60	20.07	20.20	20.01	20.24	20.60
	25 (RB_Pos:0)	19.72	19.68	19.53	19.86	20.60	19.80	19.71	19.68	19.90	20.60
	25 (RB_Pos:12)	19.78	19.74	19.66	19.85	20.60	19.87	19.78	19.59	19.88	20.60
	25 (RB_Pos:25)	19.75	19.75	19.74	19.79	20.60	19.83	19.78	19.70	19.87	20.60
	50 (RB_Pos:0)	19.77	19.74	19.62	19.81	20.60	19.80	19.75	19.66	19.88	20.60
Bandwidth (MHz)	RB Set	Power (dBm)									
		QPSK				Tune up limit (dBm)	16QAM				Tune up limit (dBm)
	Channel	40065	40448	40832	41215		40065	40448	40832	41215	
5MHz	1 (RB_Pos:0)	19.75	19.67	19.50	19.78	20.60	19.94	19.97	19.90	20.18	20.60
	1 (RB_Pos:13)	19.86	19.80	19.74	19.93	20.60	20.11	20.11	19.96	20.31	20.60
	1 (RB_Pos:24)	19.74	19.67	19.53	19.80	20.60	19.96	19.95	19.88	20.18	20.60
	12 (RB_Pos:0)	19.75	19.66	19.63	19.80	20.60	19.80	19.66	19.54	19.93	20.60
	12 (RB_Pos:6)	19.80	19.73	19.63	19.86	20.60	19.89	19.72	19.53	20.00	20.60
	12 (RB_Pos:13)	19.75	19.72	19.63	19.79	20.60	19.83	19.72	19.56	19.93	20.60
	25 (RB_Pos:0)	19.75	19.69	19.57	19.82	20.60	19.82	19.80	19.75	19.86	20.60

8.6.22 Power Reduced Level 1 of 2.4G WIFI

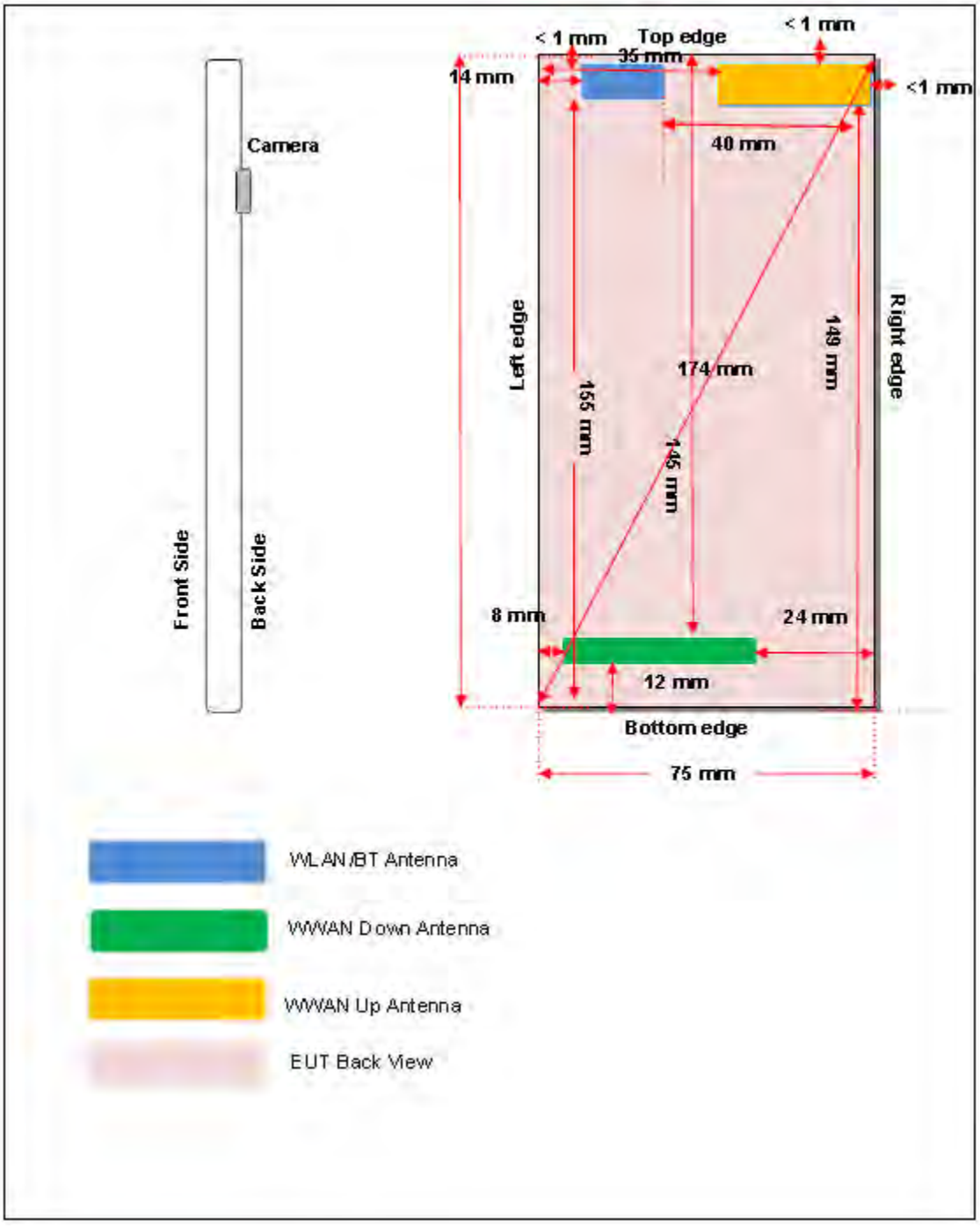
Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	17.02	18.50	Yes
		6	2437	**17.51**	18.50	Yes
		11	2462	16.60	18.50	Yes
	802.11g	1	2412	15.19	17.00	No
		6	2437	15.89	17.00	No
		11	2462	15.03	17.00	No
	802.11n(HT20)	1	2412	14.08	16.00	No
		6	2437	14.75	16.00	No
		11	2462	13.73	16.00	No

8.6.23 Power Reduced Level 1 of 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	**11.73**	13.00	No
		44	5220	11.47	13.00	No
		48	5240	11.49	13.00	No
	802.11n(HT20)	36	5180	11.85	13.00	No
		44	5220	11.19	13.00	No
		48	5240	11.52	13.00	No
	802.11n(HT40)	38	5190	10.58	12.00	No
		46	5230	10.12	12.00	No
	802.11ac(VHT20)	36	5180	11.56	13.00	No
		44	5220	11.32	13.00	No
		48	5240	11.28	13.00	No
	802.11ac(VHT40)	38	5190	10.81	12.00	No
		46	5230	10.48	12.00	No
	802.11ac(VHT80)	42	5210	10.72	12.00	No
5.3 (5.25~5.35)	802.11a	52	5260	11.45	13.00	No
		60	5300	**11.91**	13.00	Yes
		64	5320	11.53	13.00	No
	802.11n(HT20)	52	5260	11.89	13.00	No
		60	5300	11.59	13.00	No
		64	5320	11.39	13.00	No
	802.11n(HT40)	54	5270	10.63	12.00	No
		62	5310	10.87	12.00	No
	802.11ac(VHT20)	52	5260	11.62	13.00	No
		60	5300	11.89	13.00	No
		64	5320	11.58	13.00	No
	802.11ac(VHT40)	54	5270	11.06	12.00	No
		62	5310	11.03	12.00	No

	802.11ac(VHT80)	58	5290	10.60	12.00	No
5.6 (5.47~5.725)	802.11a	100	5500	**11.21**	12.50	Yes
		116	5580	10.63	12.50	No
		140	5700	10.31	12.50	No
	802.11n(HT20)	100	5500	11.06	12.50	No
		116	5580	10.83	12.50	No
		140	5700	10.30	12.50	No
	802.11n(HT40)	102	5510	9.96	12.00	No
		118	5590	9.86	12.00	No
		134	5670	9.57	12.00	No
	802.11ac(VHT20)	100	5500	10.91	12.50	No
		116	5580	10.62	12.50	No
		140	5700	10.48	12.50	No
	802.11ac(VHT40)	102	5510	10.26	12.00	No
		118	5590	10.09	12.00	No
		134	5670	9.96	12.00	No
	802.11ac(VHT80)	106	5530	10.22	12.00	No
		122	5610	10.19	12.00	No
		138	5690	9.93	12.00	No
5.8 (5.725~5.850)	802.11a	149	5745	**12.49**	13.50	Yes
		157	5785	12.19	13.50	No
		165	5825	11.64	13.50	No
	802.11n(HT20)	149	5745	14.09	13.50	No
		157	5785	14.03	13.50	No
		165	5825	13.96	13.50	No
	802.11n(HT40)	151	5755	11.27	12.50	No
		159	5795	11.13	12.50	No
	802.11ac(VHT20)	149	5745	11.88	13.50	No
		157	5785	11.92	13.50	No
		165	5825	11.61	13.50	No
	802.11ac(VHT40)	151	5755	11.44	12.50	No
		159	5795	11.23	12.50	No
	802.11ac(VHT80)	155	5775	9.95	11.50	No

9 TEST EXCLUSION CONSIDERATION



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 :

WWLAN Up Antenna：

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	35mm	<5mm	<5mm	149mm
	Voice	33.50	2238.72	Yes	Yes	Yes	Yes	Yes	No
	Data	31.50	1412.54	Yes	Yes	Yes	Yes	Yes	No
GSM 1900	Distance to User			<5mm	<5mm	35mm	<5mm	<5mm	149mm
	Voice	30.50	1122.02	Yes	Yes	Yes	Yes	Yes	No
	Data	28.00	630.96	Yes	Yes	Yes	Yes	Yes	No
WCDMA Band 2	Distance to User			<5mm	<5mm	35mm	<5mm	<5mm	149mm
	RMC	24.00	251.19	Yes	Yes	Yes	Yes	Yes	No
WCDMA Band 4	Distance to User			<5mm	<5mm	35mm	<5mm	<5mm	149mm
	RMC	24.00	251.19	Yes	Yes	Yes	Yes	Yes	No
WCDMA Band 5	Distance to User			<5mm	<5mm	35mm	<5mm	<5mm	149mm
	RMC	24.30	269.15	Yes	Yes	Yes	Yes	Yes	No
LTE Band 2	Distance to User			<5mm	<5mm	35mm	<5mm	<5mm	149mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	Yes	No
LTE Band 4	Distance to User			<5mm	<5mm	35mm	<5mm	<5mm	149mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	Yes	No
LTE Band 5	Distance to User			<5mm	<5mm	35mm	<5mm	<5mm	149mm
	QPSK	24.30	269.15	Yes	Yes	Yes	Yes	Yes	No
LTE Band 7	Distance to User			<5mm	<5mm	35mm	<5mm	<5mm	149mm
	QPSK	23.50	281.84	Yes	Yes	Yes	Yes	Yes	No
LTE Band 38	Distance to User			<5mm	<5mm	35mm	<5mm	<5mm	149mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	Yes	No
LTE Band 41	Distance to User			<5mm	<5mm	35mm	<5mm	<5mm	149mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	Yes	No

WWLAN Down Antenna：

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	8mm	24mm	145mm	<5mm
	Voice	33.50	2238.72	Yes	Yes	Yes	Yes	No	Yes
	Data	31.50	1412.54	Yes	Yes	Yes	Yes	No	Yes
GSM 1900	Distance to User			<5mm	<5mm	8mm	24mm	145mm	<5mm
	Voice	30.50	1122.02	Yes	Yes	Yes	Yes	No	Yes
	Data	28.00	630.96	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 2	Distance to User			<5mm	<5mm	8mm	24mm	145mm	<5mm
	RMC	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 4	Distance to User			<5mm	<5mm	8mm	24mm	145mm	<5mm
	RMC	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 5	Distance to User			<5mm	<5mm	8mm	24mm	145mm	<5mm
	RMC	24.30	269.15	Yes	Yes	Yes	Yes	No	Yes
LTE Band 2	Distance to User			<5mm	<5mm	8mm	24mm	145mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 4	Distance to User			<5mm	<5mm	8mm	24mm	145mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 5	Distance to User			<5mm	<5mm	8mm	24mm	145mm	<5mm
	QPSK	24.30	269.15	Yes	Yes	Yes	Yes	No	Yes
LTE Band 7	Distance to User			<5mm	<5mm	8mm	24mm	145mm	<5mm
	QPSK	23.50	281.84	Yes	Yes	Yes	Yes	No	Yes
LTE Band 38	Distance to User			<5mm	<5mm	8mm	24mm	145mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
LTE Band 41	Distance to User			<5mm	<5mm	8mm	24mm	145mm	<5mm
	QPSK	24.00	251.19	Yes	Yes	Yes	Yes	No	Yes
WLAN 2.4 G	Distance to User			<5mm	<5mm	14mm	40mm	<5mm	155mm
	802.11b	19.50	89.13	Yes	Yes	Yes	No	Yes	No
	802.11g	18.50	70.79	No	No	No	No	No	No
	802.11n(HT20)	18.50	70.79	No	No	No	No	No	No
WLAN 5.2 G	Distance to User			<5mm	<5mm	14mm	40mm	<5mm	155mm
	802.11a	18.50	70.79	Yes	Yes	Yes	Yes	Yes	No
	802.11n(HT20)	18.50	70.79	No	No	No	No	No	No
	802.11n(HT40)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT20)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT40)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT80)	14.00	25.12	No	No	No	No	No	No
WLAN 5.3 G	Distance to User			<5mm	<5mm	14mm	40mm	<5mm	155mm
	802.11a	17.50	56.23	Yes	Yes	Yes	Yes	Yes	No
	802.11n(HT20)	17.50	56.23	No	No	No	No	No	No
	802.11n(HT40)	17.50	56.23	No	No	No	No	No	No

	802.11ac(VHT20)	17.50	56.23	No	No	No	No	No	No
	802.11ac(VHT40)	17.50	56.23	No	No	No	No	No	No
	802.11ac(VHT80)	10.00	10.00	No	No	No	No	No	No
WLAN 5.6 G	Distance to User			<5mm	<5mm	14mm	40mm	<5mm	155mm
	802.11a	18.50	70.79	Yes	Yes	Yes	Yes	Yes	No
	802.11n(HT20)	18.50	70.79	No	No	No	No	No	No
	802.11n(HT40)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT20)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT40)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT80)	11.00	12.29	No	No	No	No	No	No
WLAN 5.8 G	Distance to User			<5mm	<5mm	14mm	40mm	<5mm	155mm
	802.11a	17.00	50.12	Yes	Yes	Yes	Yes	Yes	No
	802.11n(HT20)	17.00	50.12	No	No	No	No	No	No
	802.11n(HT40)	17.00	50.12	No	No	No	No	No	No
	802.11ac(VHT20)	17.00	50.12	No	No	No	No	No	No
	802.11ac(VHT40)	17.00	50.12	No	No	No	No	No	No
	802.11ac(VHT80)	17.00	50.12	No	No	No	No	No	No
Bluetooth	Distance to User			<5mm	<5mm	<5mm	45mm	<5mm	130mm
	BR/EDR	11.50	14.13	No	No	No	No	No	No
	BLE	12.50	17.78	Yes	Yes	Yes	No	Yes	No

Note:

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

   This formula is [3.0] / [√f(GHz)] ·[(min. test separation distance, mm)] = exclusion threshold of mW.
5. Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
   a. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
   b. [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
6. Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA /HSUPA /DC-HSDPA output power is < 0.25dB higher than RMC12.2Kbps, or reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
7. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.8.

For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate

8. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
   a. When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
   b. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
9. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
   a. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
   b. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

10 TEST RESULT

10.1GSM 850

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	Meas. SAR1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Head													
Up	Leve1&2&3	GPRS (2slots)	Left Cheek	0	128	824.20	0.01	0.146	29.69	30.50	1.205	0.176	/
	Leve1&2&3		Left Tilt	0	128	824.20	0.13	0.120	29.69	30.50	1.205	0.145	/
	Leve1&2&3		Right Cheek	0	128	824.20	-0.11	0.198	29.69	30.50	1.205	**0.239**	1#
	Leve1&2&3		Right Tilt	0	128	824.20	0.06	0.149	29.69	30.50	1.205	0.180	/
Down	Off	GPRS (2slots)	Left Cheek	0	128	824.20	0.15	0.164	30.74	31.00	1.062	0.174	/
	Off		Left Tilt	0	128	824.20	0.09	0.077	30.74	31.00	1.062	0.082	/
	Off		Right Cheek	0	128	824.20	0.01	0.159	30.74	31.00	1.062	0.169	/
	Off		Right Tilt	0	128	824.20	-0.14	0.073	30.74	31.00	1.062	0.078	/
Body-worn Accessory													
Up	Off	Voice	Front Side	15	128	824.20	-0.14	0.025	32.39	33.30	1.233	0.031	/
	Off		Back Side	15	128	824.20	0.05	0.040	32.39	33.30	1.233	0.049	/
	Off	GPRS (2slots)	Front Side	15	128	824.20	-0.19	0.031	30.74	31.50	1.191	0.037	/
	Off		Back Side	15	128	824.20	0.07	0.050	30.74	31.50	1.191	0.060	/
Down	Off	Voice	Front Side	15	128	824.20	0.11	0.150	32.39	33.30	1.233	0.185	/
	Off		Back Side	15	128	824.20	0.14	0.197	32.39	33.30	1.233	0.243	/
	Off	GPRS (2slots)	Front Side	15	128	824.20	-0.10	0.188	30.74	31.50	1.191	0.224	/
	Off		Back Side	15	128	824.20	0.03	0.263	30.74	31.50	1.191	**0.313**	2#
Hotspot													
Up	Off	Voice	Front Side	10	128	824.20	0.15	0.030	32.39	33.30	1.233	0.037	/
	Off		Back Side	10	128	824.20	0.15	0.048	32.39	33.30	1.233	0.059	/
	Off	GPRS (2slots)	Front Side	10	128	824.20	-0.03	0.037	30.74	31.50	1.191	0.044	/
	Off		Back Side	10	128	824.20	-0.17	0.060	30.74	31.50	1.191	0.071	/
	Off		Left Edge	10	128	824.20	-0.01	0.009	30.74	31.50	1.191	0.011	/
	Off		Right Edge	10	128	824.20	-0.17	0.021	30.74	31.50	1.191	0.025	/
	Off		Top Edge	10	128	824.20	-0.02	0.045	30.74	31.50	1.191	0.054	/
Down	Off	Voice	Front Side	10	128	824.20	0.18	0.129	32.39	33.30	1.233	0.159	/
	Off		Back Side	10	128	824.20	0.16	0.216	32.39	33.30	1.233	0.266	/
	Off	GPRS (2slots)	Front Side	10	128	824.20	-0.09	0.192	30.74	31.50	1.191	0.229	/
	Off		Back Side	10	128	824.20	-0.01	0.303	30.74	31.50	1.191	**0.361**	3#
	Off		Left Edge	10	128	824.20	-0.15	0.046	30.74	31.50	1.191	0.055	/
	Off		Right Edge	10	128	824.20	-0.17	0.138	30.74	31.50	1.191	0.164	/
	Off		Bottom Edge	10	128	824.20	0.06	0.221	30.74	31.50	1.191	0.263	/

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)	Meas. SAR1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Head													
Up	Leve1&2&3	GPRS (2slots)	Left Cheek	0	810	1909.80	0.01	0.178	22.94	24.00	1.276	0.227	/
	Leve1&2&3		Left Tilt	0	810	1909.80	-0.09	0.182	22.94	24.00	1.276	0.232	/
	Leve1&2&3		Right Cheek	0	810	1909.80	-0.08	0.475	22.94	24.00	1.276	**0.606**	4#
	Leve1&2&3		Right Tilt	0	810	1909.80	-0.07	0.426	22.94	24.00	1.276	0.544	/
Down	Off	GPRS (2slots)	Left Cheek	0	810	1909.80	0.08	0.143	28.06	28.50	1.107	0.158	/
	Off		Left Tilt	0	810	1909.80	0.14	0.094	28.06	28.50	1.107	0.104	/
	Off		Right Cheek	0	810	1909.80	-0.06	0.135	28.06	28.50	1.107	0.149	/
	Off		Right Tilt	0	810	1909.80	0.03	0.114	28.06	28.50	1.107	0.126	/
Body-worn Accessory													
Up	Level4&5&6	Voice	Front Side	15	512	1850.20	0.05	0.069	27.13	27.30	1.040	0.072	/
	Level4&5&6		Back Side	15	512	1850.20	0.15	0.100	27.13	27.30	1.040	0.104	/
	Level4&5&6	GPRS (2slots)	Front Side	15	512	1850.20	0.12	0.088	24.06	25.00	1.242	0.109	/
	Level4&5&6		Back Side	15	512	1850.20	-0.13	0.116	24.06	25.00	1.242	**0.144**	5#
Down	Level7&8&9	Voice	Front Side	15	512	1850.20	-0.13	0.048	27.13	27.30	1.040	0.050	/
	Level7&8&9		Back Side	15	512	1850.20	-0.10	0.067	27.13	27.30	1.040	0.070	/
	Level7&8&9	GPRS (2slots)	Front Side	15	512	1850.20	-0.04	0.091	24.06	25.00	1.242	0.113	/
	Level7&8&9		Back Side	15	512	1850.20	-0.18	0.112	24.06	25.00	1.242	0.139	/
Hotspot													
Up	Level4&5&6	Voice	Front Side	10	512	1850.20	0.00	0.120	27.13	27.30	1.040	0.125	/
	Level4&5&6		Back Side	10	512	1850.20	0.09	0.203	27.13	27.30	1.040	0.211	/
	Level4&5&6	GPRS (2slots)	Front Side	10	512	1850.20	-0.11	0.142	24.06	25.00	1.242	0.176	/
	Level4&5&6		Back Side	10	512	1850.20	0.14	0.326	24.06	25.00	1.242	**0.405**	6#
	Level4&5&6		Left Edge	10	512	1850.20	0.06	0.023	24.06	25.00	1.242	0.029	/
	Level4&5&6		Right Edge	10	512	1850.20	-0.11	0.108	24.06	25.00	1.242	0.134	/
	Level4&5&6		Top Edge	10	512	1850.20	0.05	0.131	24.06	25.00	1.242	0.163	/
Down	Level7&8&9	Voice	Front Side	10	512	1850.20	-0.07	0.097	27.13	27.30	1.040	0.101	/
	Level7&8&9		Back Side	10	512	1850.20	-0.16	0.150	27.13	27.30	1.040	0.156	/
	Level7&8&9	GPRS (2slots)	Front Side	10	512	1850.20	-0.13	0.162	24.06	25.00	1.242	0.201	/
	Level7&8&9		Back Side	10	512	1850.20	0.08	0.224	24.06	25.00	1.242	0.278	/
	Level7&8&9		Left Edge	10	512	1850.20	0.15	0.135	24.06	25.00	1.242	0.168	/
	Level7&8&9		Right Edge	10	512	1850.20	-0.11	0.046	24.06	25.00	1.242	0.057	/
	Level7&8&9		Bottom Edge	10	512	1850.20	0.16	0.214	24.06	25.00	1.242	0.266	/

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)	Meas. SAR1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Head													
Up	Level1&2&3	RMC	Left Cheek	0	9538	1907.60	-0.02	0.296	17.95	18.00	1.012	0.299	/
	Level1&2&3		Left Tilt	0	9538	1907.60	0.13	0.313	17.95	18.00	1.012	0.317	/
	Level1&2&3		Right Cheek	0	9538	1907.60	0.16	0.528	17.95	18.00	1.012	**0.534**	7#
	Level1&2&3		Right Tilt	0	9538	1907.60	-0.09	0.467	17.95	18.00	1.012	0.472	/
Down	Off	RMC	Left Cheek	0	9538	1907.60	0.14	0.138	23.31	24.00	1.172	0.162	/
	Off		Left Tilt	0	9538	1907.60	-0.11	0.091	23.31	24.00	1.172	0.107	/
	Off		Right Cheek	0	9538	1907.60	-0.14	0.129	23.31	24.00	1.172	0.151	/
	Off		Right Tilt	0	9538	1907.60	-0.14	0.110	23.31	24.00	1.172	0.129	/
Body-worn Accessory													
Up	Level4&5&6	RMC	Front Side	15	9538	1907.60	-0.03	0.074	18.96	19.00	1.009	0.075	/
	Level4&5&6		Back Side	15	9538	1907.60	0.03	0.101	18.96	19.00	1.009	**0.102**	8#
Down	Level7&8&9	RMC	Front Side	15	9538	1907.60	-0.09	0.076	18.96	19.00	1.009	0.077	/
	Level7&8&9		Back Side	15	9538	1907.60	-0.19	0.092	18.96	19.00	1.009	0.093	/
Hotspot													
Up	Level4&5&6	RMC	Front Side	10	9538	1907.60	0.14	0.173	18.96	19.00	1.009	0.175	/
	Level4&5&6		Back Side	10	9538	1907.60	0.01	0.296	18.96	19.00	1.009	**0.299**	9#
	Level4&5&6		Left Edge	10	9538	1907.60	0.00	0.031	18.96	19.00	1.009	0.031	/
	Level4&5&6		Right Edge	10	9538	1907.60	0.15	0.143	18.96	19.00	1.009	0.144	/
	Level4&5&6		Top Edge	10	9538	1907.60	-0.07	0.159	18.96	19.00	1.009	0.160	/
Down	Level7&8&9	RMC	Front Side	10	9538	1907.60	-0.12	0.126	18.96	19.00	1.009	0.127	/
	Level7&8&9		Back Side	10	9538	1907.60	-0.10	0.169	18.96	19.00	1.009	0.171	/
	Level7&8&9		Left Edge	10	9538	1907.60	0.17	0.096	18.96	19.00	1.009	0.097	/
	Level7&8&9		Right Edge	10	9538	1907.60	0.15	0.020	18.96	19.00	1.009	0.020	/
	Level7&8&9		Bottom Edge	10	9538	1907.60	0.05	0.229	18.96	19.00	1.009	0.231	/
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)	Meas. SAR1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Head													
Up	Level1&2&3	RMC	Left Cheek	0	1312	1712.40	-0.09	0.180	17.94	18.00	1.014	0.183	/
	Level1&2&3		Left Tilt	0	1312	1712.40	-0.01	0.181	17.94	18.00	1.014	0.184	/
	Level1&2&3		Right Cheek	0	1312	1712.40	0.10	0.288	17.94	18.00	1.014	**0.292**	10#
	Level1&2&3		Right Tilt	0	1312	1712.40	0.07	0.260	17.94	18.00	1.014	0.264	/
Down	Off	RMC	Left Cheek	0	1312	1712.40	-0.17	0.122	23.16	24.00	1.213	0.148	/
	Off		Left Tilt	0	1312	1712.40	-0.18	0.078	23.16	24.00	1.213	0.095	/
	Off		Right Cheek	0	1312	1712.40	0.08	0.096	23.16	24.00	1.213	0.116	/
	Off		Right Tilt	0	1312	1712.40	0.15	0.078	23.16	24.00	1.213	0.095	/
Body-worn Accessory													
Up	Level4&5&6	RMC	Front Side	15	1312	1712.40	-0.02	0.025	18.98	19.00	1.005	0.025	/
	Level4&5&6		Back Side	15	1312	1712.40	0.18	0.028	18.98	19.00	1.005	0.028	/
Down	Level7&8&9	RMC	Front Side	15	1312	1712.40	0.10	0.059	18.98	19.00	1.005	0.059	/
	Level7&8&9		Back Side	15	1312	1712.40	0.17	0.101	18.98	19.00	1.005	**0.101**	11#
Hotspot													
Up	Level4&5&6	RMC	Front Side	10	1312	1712.40	0.09	0.061	18.98	19.00	1.005	0.061	/
	Level4&5&6		Back Side	10	1312	1712.40	0.05	0.089	18.98	19.00	1.005	0.089	/
	Level4&5&6		Left Edge	10	1312	1712.40	0.06	0.019	18.98	19.00	1.005	0.019	/
	Level4&5&6		Right Edge	10	1312	1712.40	0.14	0.047	18.98	19.00	1.005	0.047	/
	Level4&5&6		Top Edge	10	1312	1712.40	0.05	0.070	18.98	19.00	1.005	0.070	/
Down	Level7&8&9	RMC	Front Side	10	1312	1712.40	0.17	0.091	18.98	19.00	1.005	0.091	/
	Level7&8&9		Back Side	10	1312	1712.40	0.11	0.191	18.98	19.00	1.005	0.192	/
	Level7&8&9		Left Edge	10	1312	1712.40	0.08	0.070	18.98	19.00	1.005	0.070	/
	Level7&8&9		Right Edge	10	1312	1712.40	-0.01	0.044	18.98	19.00	1.005	0.044	/
	Level7&8&9		Bottom Edge	10	1312	1712.40	0.11	0.257	18.98	19.00	1.005	**0.258**	12#
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)	Meas. SAR1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Head													
Up	Level1&2&3	RMC	Left Cheek	0	4132	826.40	0.09	0.152	22.66	23.80	1.300	0.198	/
	Level1&2&3		Left Tilt	0	4132	826.40	0.00	0.125	22.66	23.80	1.300	0.163	/
	Level1&2&3		Right Cheek	0	4132	826.40	-0.06	0.202	22.66	23.80	1.300	**0.263**	13#
	Level1&2&3		Right Tilt	0	4132	826.40	0.07	0.176	22.66	23.80	1.300	0.229	/
Down	Off	RMC	Left Cheek	0	4132	826.40	0.02	0.170	23.15	24.30	1.303	0.222	/
	Off		Left Tilt	0	4132	826.40	-0.12	0.081	23.15	24.30	1.303	0.106	/
	Off		Right Cheek	0	4132	826.40	-0.16	0.165	23.15	24.30	1.303	0.215	/
	Off		Right Tilt	0	4132	826.40	0.05	0.079	23.15	24.30	1.303	0.103	/
Body-worn Accessory													
Up	Off	RMC	Front Side	15	4132	826.40	0.08	0.036	23.15	24.30	1.303	0.047	/
	Off		Back Side	15	4132	826.40	-0.12	0.051	23.15	24.30	1.303	0.066	/
Down	Off	RMC	Front Side	15	4132	826.40	-0.01	0.143	23.15	24.30	1.303	0.186	/
	Off		Back Side	15	4132	826.40	0.01	0.196	23.15	24.30	1.303	**0.255**	14#
Hotspot													
Up	Off	RMC	Front Side	10	4132	826.40	0.18	0.049	23.15	24.30	1.303	0.064	/
	Off		Back Side	10	4132	826.40	0.19	0.088	23.15	24.30	1.303	0.115	/
	Off		Left Edge	10	4132	826.40	-0.12	0.015	23.15	24.30	1.303	0.020	/
	Off		Right Edge	10	4132	826.40	-0.09	0.041	23.15	24.30	1.303	0.053	/
	Off		Top Edge	10	4132	826.40	-0.02	0.085	23.15	24.30	1.303	0.111	/
Down	Off	RMC	Front Side	10	4132	826.40	-0.14	0.154	23.15	24.30	1.303	0.201	/
	Off		Back Side	10	4132	826.40	0.03	0.273	23.15	24.30	1.303	**0.356**	15#
	Off		Left Edge	10	4132	826.40	-0.02	0.026	23.15	24.30	1.303	0.034	/
	Off		Right Edge	10	4132	826.40	0.01	0.084	23.15	24.30	1.303	0.109	/
	Off		Bottom Edge	10	4132	826.40	0.12	0.177	23.15	24.30	1.303	0.231	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.6LTE Band 2 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Head															
Up	Level1&2&3	QPSK	Left Cheek	0	18900	1880	1	Mid	-0.02	0.299	16.91	17.80	1.227	0.367	/
	Level1&2&3			0	19100	1900	50	Mid	-0.08	0.284	16.99	17.80	1.205	0.342	/
	Level1&2&3		Left Tilt	0	18900	1880	1	Mid	-0.13	0.297	16.91	17.80	1.227	0.365	/
	Level1&2&3			0	19100	1900	50	Mid	0.04	0.280	16.99	17.80	1.205	0.337	/
	Level1&2&3		Right Cheek	0	18900	1880	1	Mid	-0.10	0.491	16.91	17.80	1.227	**0.603**	16#
	Level1&2&3			0	19100	1900	50	Mid	0.06	0.468	16.99	17.80	1.205	0.564	/
	Level1&2&3		Right Tilt	0	18900	1880	1	Mid	0.14	0.446	16.91	17.80	1.227	0.547	/
	Level1&2&3			0	19100	1900	50	Mid	0.06	0.419	16.99	17.80	1.205	0.505	/
Down	Off	QPSK	Left Cheek	0	18700	1860	1	Mid	0.02	0.142	22.87	23.80	1.239	0.176	/
	Off			0	18700	1860	50	High	0.14	0.135	21.88	22.80	1.236	0.167	/
	Off		Left Tilt	0	18700	1860	1	Mid	-0.14	0.096	22.87	23.80	1.239	0.119	/
	Off			0	18700	1860	50	High	0.10	0.088	21.88	22.80	1.236	0.109	/
	Off		Right Cheek	0	18700	1860	1	Mid	-0.09	0.138	22.87	23.80	1.239	0.171	/
	Off			0	18700	1860	50	High	-0.07	0.130	21.88	22.80	1.236	0.161	/
	Off		Right Tilt	0	18700	1860	1	Mid	-0.04	0.120	22.87	23.80	1.239	0.149	/
	Off			0	18700	1860	50	High	0.09	0.109	21.88	22.80	1.236	0.135	/
Body-worn Accessory															
Up	Level4&5&6	QPSK	Front Side	15	18900	1880	1	Mid	0.11	0.074	17.96	18.80	1.213	0.089	/
	Level4&5&6			15	19100	1900	50	Mid	0.19	0.070	18.00	18.80	1.202	0.084	/
	Level4&5&6		Back Side	15	18900	1880	1	Mid	0.06	0.139	17.96	18.80	1.213	**0.169**	17#
	Level4&5&6			15	19100	1900	50	Mid	0.18	0.128	18.00	18.80	1.202	0.154	/
Down	Level7&8&9	QPSK	Front Side	15	18900	1880	1	Mid	0.12	0.060	17.96	18.80	1.213	0.073	/
	Level7&8&9			15	19100	1900	50	Mid	0.14	0.057	18.00	18.80	1.202	0.069	/
	Level7&8&9		Back Side	15	18900	1880	1	Mid	0.05	0.021	17.96	18.80	1.213	0.025	/
	Level7&8&9			15	19100	1900	50	Mid	0.14	0.019	18.00	18.80	1.202	0.023	/
Hotspot															
Up	Level4&5&6	QPSK	Front Side	10	18900	1880	1	Mid	-0.12	0.131	17.96	18.80	1.213	0.159	/
	Level4&5&6			10	19100	1900	50	Mid	-0.01	0.126	18.00	18.80	1.202	0.151	/
	Level4&5&6		Back Side	10	18900	1880	1	Mid	0.11	0.247	17.96	18.80	1.213	**0.300**	18#
	Level4&5&6			10	19100	1900	50	Mid	0.00	0.153	18.00	18.80	1.202	0.184	/
	Level4&5&6		Left Edge	10	18900	1880	1	Mid	0.14	0.022	17.96	18.80	1.213	0.027	/
	Level4&5&6			10	19100	1900	50	Mid	0.14	0.021	18.00	18.80	1.202	0.025	/
	Level4&5&6		Right Edge	10	18900	1880	1	Mid	-0.10	0.076	17.96	18.80	1.213	0.092	/
	Level4&5&6			10	19100	1900	50	Mid	0.02	0.074	18.00	18.80	1.202	0.089	/
	Level4&5&6		Top Edge	10	18900	1880	1	Mid	0.16	0.155	17.96	18.80	1.213	0.188	/
	Level4&5&6			10	19100	1900	50	Mid	0.09	0.146	18.00	18.80	1.202	0.176	/
Down	Level7&8&9	QPSK	Front Side	10	18900	1880	1	Mid	-0.17	0.150	17.96	18.80	1.213	0.182	/
	Level7&8&9			10	19100	1900	50	Mid	-0.13	0.145	18.00	18.80	1.202	0.174	/
	Level7&8&9		Back	10	18900	1880	1	Mid	0.16	0.178	17.96	18.80	1.213	0.216	/

	Level7&8&9		Side	10	19100	1900	50	Mid	0.15	0.169	18.00	18.80	1.202	0.203	/
	Level7&8&9		Left	10	18900	1880	1	Mid	-0.09	0.063	17.96	18.80	1.213	0.076	/
	Level7&8&9		Edge	10	19100	1900	50	Mid	0.12	0.061	18.00	18.80	1.202	0.073	/
	Level7&8&9		Right	10	18900	1880	1	Mid	0.16	0.015	17.96	18.80	1.213	0.018	/
	Level7&8&9		Edge	10	19100	1900	50	Mid	-0.07	0.014	18.00	18.80	1.202	0.017	/
	Level7&8&9		Bottom	10	18900	1880	1	Mid	0.02	0.228	17.96	18.80	1.213	0.277	/
	Level7&8&9		Edge	10	19100	1900	50	Mid	-0.17	0.219	18.00	18.80	1.202	0.263	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.7LTE Band 4 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Head															
Up	Level1&2&3	QPSK	Left	0	20175	1732.5	1	Mid	-0.19	0.156	16.89	17.80	1.233	0.192	/
	Level1&2&3		Cheek	0	20050	1720	50	High	-0.19	0.140	16.86	17.80	1.242	0.174	/
	Level1&2&3		Left Tilt	0	20175	1732.5	1	Mid	-0.07	0.156	16.89	17.80	1.233	0.192	/
	Level1&2&3			0	20050	1720	50	High	0.07	0.139	16.86	17.80	1.242	0.173	/
	Level1&2&3		Right	0	20175	1732.5	1	Mid	0.13	0.246	16.89	17.80	1.233	**0.303**	19#
	Level1&2&3		Cheek	0	20050	1720	50	High	0.01	0.208	16.86	17.80	1.242	0.258	/
	Level1&2&3		Right	0	20175	1732.5	1	Mid	-0.09	0.210	16.89	17.80	1.233	0.259	/
	Level1&2&3		Tilt	0	20050	1720	50	High	0.17	0.185	16.86	17.80	1.242	0.230	/
Down	Off	QPSK	Left	0	20175	1732.5	1	Mid	0.00	0.119	22.85	23.80	1.245	0.148	/
	Off		Cheek	0	20175	1732.5	50	Mid	0.04	0.112	21.81	22.80	1.256	0.141	/
	Off		Left Tilt	0	20175	1732.5	1	Mid	-0.17	0.074	22.85	23.80	1.245	0.092	/
	Off			0	20175	1732.5	50	Mid	0.10	0.069	21.81	22.80	1.256	0.087	/
	Off		Right	0	20175	1732.5	1	Mid	-0.06	0.089	22.85	23.80	1.245	0.111	/
	Off		Cheek	0	20175	1732.5	50	Mid	-0.06	0.085	21.81	22.80	1.256	0.107	/
	Off		Right	0	20175	1732.5	1	Mid	0.19	0.072	22.85	23.80	1.245	0.090	/
	Off		Tilt	0	20175	1732.5	50	Mid	0.14	0.066	21.81	22.80	1.256	0.083	/
Body-worn Accessory															
Up	Level4&5&6	QPSK	Front	15	20175	1732.5	1	Mid	0.07	0.081	17.89	18.80	1.233	0.100	/
	Level4&5&6		Side	15	20050	1720	50	Mid	-0.13	0.078	17.87	18.80	1.239	0.097	/
	Level4&5&6		Back	15	20175	1732.5	1	Mid	0.10	0.133	17.89	18.80	1.233	**0.164**	20#
	Level4&5&6		Side	15	20050	1720	50	Mid	-0.16	0.129	17.87	18.80	1.239	0.160	/
Down	Level7&8&9	QPSK	Front	15	20175	1732.5	1	Mid	0.07	0.118	17.89	18.80	1.233	0.146	/
	Level7&8&9		Side	15	20050	1720	50	Mid	-0.11	0.112	17.87	18.80	1.239	0.139	/
	Level7&8&9		Back	15	20175	1732.5	1	Mid	-0.06	0.089	17.89	18.80	1.233	0.110	/
	Level7&8&9		Side	15	20050	1720	50	Mid	0.15	0.083	17.87	18.80	1.239	0.103	/
Hotspot															
Up	Level4&5&6	QPSK	Front	10	20175	1732.5	1	Mid	0.09	0.093	17.89	18.80	1.233	0.114	/
	Level4&5&6		Side	10	20050	1720	50	Mid	0.00	0.092	17.87	18.80	1.239	0.114	/
	Level4&5&6		Back	10	20175	1732.5	1	Mid	-0.10	0.095	17.89	18.80	1.233	0.117	/

	Level4&5&6		Side	10	20050	1720	50	Mid	0.16	0.093	17.87	18.80	1.239	0.115	/
	Level4&5&6		Left	10	20175	1732.5	1	Mid	0.01	0.028	17.89	18.80	1.233	0.035	/
	Level4&5&6		Edge	10	20050	1720	50	Mid	0.18	0.025	17.87	18.80	1.239	0.031	/
	Level4&5&6		Right	10	20175	1732.5	1	Mid	0.05	0.082	17.89	18.80	1.233	0.101	/
	Level4&5&6		Edge	10	20050	1720	50	Mid	0.18	0.078	17.87	18.80	1.239	0.097	/
	Level4&5&6		Top Edg	10	20175	1732.5	1	Mid	-0.13	0.070	17.89	18.80	1.233	0.087	/
	Level4&5&6		e	10	20050	1720	50	Mid	-0.16	0.068	17.87	18.80	1.239	0.084	/
	Level7&8&9		Front	10	20175	1732.5	1	Mid	0.00	0.146	17.89	18.80	1.233	0.180	/
	Level7&8&9		Side	10	20050	1720	50	Mid	0.04	0.124	17.87	18.80	1.239	0.154	/
	Level7&8&9		Back	10	20175	1732.5	1	Mid	-0.18	0.158	17.89	18.80	1.233	0.195	/
	Level7&8&9		Side	10	20050	1720	50	Mid	0.10	0.108	17.87	18.80	1.239	0.134	/
Dow	Level7&8&9		Left	10	20175	1732.5	1	Mid	0.05	0.033	17.89	18.80	1.233	0.041	/
n	Level7&8&9	QPSK	Edge	10	20050	1720	50	Mid	0.05	0.032	17.87	18.80	1.239	0.040	/
	Level7&8&9		Right	10	20175	1732.5	1	Mid	-0.07	0.019	17.89	18.80	1.233	0.023	/
	Level7&8&9		Edge	10	20050	1720	50	Mid	-0.17	0.017	17.87	18.80	1.239	0.021	/
	Level7&8&9		Bottom	10	20175	1732.5	1	Mid	0.09	0.243	17.89	18.80	1.233	**0.300**	21#
	Level7&8&9		Edge	10	20050	1720	50	Mid	-0.11	0.235	17.87	18.80	1.239	0.291	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.8LTE Band 5 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Head															
	Level1&2&3		Left	0	20525	836.5	1	Mid	-0.07	0.176	22.22	23.10	1.225	0.216	/
	Level1&2&3		Cheek	0	20600	844	25	Mid	-0.18	0.158	21.25	22.10	1.216	0.192	/
	Level1&2&3		Left Tilt	0	20525	836.5	1	Mid	-0.05	0.156	22.22	23.10	1.225	0.191	/
	Level1&2&3			0	20600	844	25	Mid	0.16	0.142	21.25	22.10	1.216	0.173	/
Up	Level1&2&3	QPSK	Right	0	20525	836.5	1	Mid	0.03	0.228	22.22	23.10	1.225	**0.279**	22#
	Level1&2&3		Cheek	0	20600	844	25	Mid	0.03	0.184	21.25	22.10	1.216	0.224	/
	Level1&2&3		Right	0	20525	836.5	1	Mid	-0.02	0.206	22.22	23.10	1.225	0.252	/
	Level1&2&3		Tilt	0	20600	844	25	Mid	0.15	0.167	21.25	22.10	1.216	0.203	/
	Off		Left	0	20525	836.5	1	Mid	0.05	0.181	23.34	24.10	1.191	0.216	/
	Off		Cheek	0	20600	844	25	Mid	0.15	0.165	22.36	23.10	1.186	0.196	/
	Off		Left Tilt	0	20525	836.5	1	Mid	0.12	0.089	23.34	24.10	1.191	0.106	/
	Off			0	20600	844	25	Mid	-0.11	0.081	22.36	23.10	1.186	0.096	/
Dow	Off	QPSK	Right	0	20525	836.5	1	Mid	-0.06	0.173	23.34	24.10	1.191	0.206	/
n	Off		Cheek	0	20600	844	25	Mid	0.15	0.157	22.36	23.10	1.186	0.186	/
	Off		Right	0	20525	836.5	1	Mid	0.03	0.089	23.34	24.10	1.191	0.106	/
	Off		Tilt	0	20600	844	25	Mid	-0.03	0.081	22.36	23.10	1.186	0.096	/
Body-worn Accessory															
Up	Off	QPSK	Front	15	20525	836.5	1	Mid	0.03	0.038	23.34	24.10	1.191	0.045	/
	Off		Side	15	20600	844	25	Mid	0.12	0.036	22.36	23.10	1.186	0.043	/

	Off		Back	15	20525	836.5	1	Mid	0.19	0.044	23.34	24.10	1.191	0.052	/
	Off		Side	15	20600	844	25	Mid	-0.17	0.042	22.36	23.10	1.186	0.050	/
Dow n	Off	QPSK	Front	15	20525	836.5	1	Mid	0.01	0.098	23.34	24.10	1.191	0.117	/
	Off		Side	15	20600	844	25	Mid	0.01	0.090	22.36	23.10	1.186	0.107	/
	Off		Back	15	20525	836.5	1	Mid	0.15	0.234	23.34	24.10	1.191	**0.279**	23#
	Off		Side	15	20600	844	25	Mid	0.03	0.194	22.36	23.10	1.186	0.230	/
Hotspot															
Up	Off	QPSK	Front	10	20525	836.5	1	Mid	0.04	0.047	23.34	24.10	1.191	0.056	/
	Off		Side	10	20600	844	25	Mid	-0.05	0.045	22.36	23.10	1.186	0.053	/
	Off		Back	10	20525	836.5	1	Mid	0.19	0.056	23.34	24.10	1.191	0.066	/
	Off		Side	10	20600	844	25	Mid	-0.01	0.053	22.36	23.10	1.186	0.063	/
	Off		Left	10	20525	836.5	1	Mid	0.07	0.010	23.34	24.10	1.191	0.012	/
	Off		Edge	10	20600	844	25	Mid	0.07	0.008	22.36	23.10	1.186	0.009	/
	Off		Right	10	20525	836.5	1	Mid	-0.16	0.026	23.34	24.10	1.191	0.031	/
	Off		Edge	10	20600	844	25	Mid	0.14	0.024	22.36	23.10	1.186	0.028	/
	Off		Top Edg	10	20525	836.5	1	Mid	-0.02	0.045	23.34	24.10	1.191	0.054	/
	Off		e	10	20600	844	25	Mid	-0.17	0.042	22.36	23.10	1.186	0.050	/
Dow n	Off	QPSK	Front	10	20525	836.5	1	Mid	0.02	0.131	23.34	24.10	1.191	0.156	/
	Off		Side	10	20600	844	25	Mid	0.17	0.119	22.36	23.10	1.186	0.141	/
	Off		Back	10	20525	836.5	1	Mid	0.02	0.312	23.34	24.10	1.191	**0.372**	24#
	Off		Side	10	20600	844	25	Mid	0.01	0.259	22.36	23.10	1.186	0.307	/
	Off		Left	10	20525	836.5	1	Mid	0.07	0.037	23.34	24.10	1.191	0.044	/
	Off		Edge	10	20600	844	25	Mid	0.07	0.034	22.36	23.10	1.186	0.040	/
	Off		Right	10	20525	836.5	1	Mid	-0.16	0.069	23.34	24.10	1.191	0.082	/
	Off		Edge	10	20600	844	25	Mid	-0.02	0.067	22.36	23.10	1.186	0.079	/
	Off		Bottom	10	20525	836.5	1	Mid	0.09	0.193	23.34	24.10	1.191	0.230	/
	Off		Edge	10	20600	844	25	Mid	0.15	0.178	22.36	23.10	1.186	0.211	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.9LTE Band 7 (20MHz Bandwidth)

Ante nna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num b.	RB Start	Power Drift (dB)	Meas. SAR1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Head															
Up	Level1&2&3	QPSK	Left	0	21350	2560	1	Mid	-0.11	0.367	16.46	17.60	1.300	0.477	/
	Level1&2&3		Cheek	0	21350	2560	50	Mid	-0.10	0.368	16.50	17.60	1.288	0.474	/
	Level1&2&3		Left Tilt	0	21350	2560	1	Mid	-0.08	0.402	16.46	17.60	1.300	0.523	/
	Level1&2&3			0	21350	2560	50	Mid	0.15	0.405	16.50	17.60	1.288	0.522	/
	Level1&2&3		Right	0	21350	2560	1	Mid	0.14	0.612	16.46	17.60	1.300	0.796	/
	Level1&2&3		Cheek	0	21350	2560	50	Mid	0.11	0.617	16.50	17.60	1.288	0.785	/
	Level1&2&3		Right	0	21350	2560	1	Mid	0.00	0.828	16.46	17.60	1.300	1.077	/
	Level1&2&3		Tilt	0	20850	2510	1	Mid	0.08	0.867	16.43	17.60	1.309	**1.135**	25#
	Level1&2&3			0	21100	2535	1	Mid	0.09	0.832	16.46	17.60	1.300	1.082	/

	Level1&2&3			0	21350	2560	50	Mid	0.13	0.790	16.50	17.60	1.288	1.018	/
	Level1&2&3			0	20850	2510	50	Mid	0.11	0.850	16.49	17.60	1.291	1.098	/
	Level1&2&3			0	21100	2535	50	Mid	0.07	0.813	16.41	17.60	1.315	1.069	/
	Level1&2&3			0	21350	2560	100	Low	-0.12	0.782	16.45	17.60	1.303	1.019	/
	Off		Left	0	21350	2560	1	Mid	-0.12	0.038	22.86	23.60	1.186	0.045	/
	Off		Cheek	0	21350	2560	50	Mid	-0.01	0.035	21.86	22.60	1.186	0.042	/
	Off		Left Tilt	0	21350	2560	1	Mid	0.05	0.026	22.86	23.60	1.186	0.031	/
Dow	Off			0	21350	2560	50	Mid	-0.05	0.025	21.86	22.60	1.186	0.030	/
n	Off	QPSK	Right	0	21350	2560	1	Mid	-0.14	0.049	22.86	23.60	1.186	0.058	/
	Off		Cheek	0	21350	2560	50	Mid	-0.09	0.047	21.86	22.60	1.186	0.056	/
	Off		Right	0	21350	2560	1	Mid	-0.02	0.045	22.86	23.60	1.186	0.053	/
	Off		Tilt	0	21350	2560	50	Mid	0.07	0.042	21.86	22.60	1.186	0.050	/
Body-worn Accessory & Hotspot															
	Level4&5&6		Front	15	21350	2560	1	Mid	0.12	0.096	17.45	18.60	1.303	0.125	/
Up	Level4&5&6	QPSK	Side	15	21350	2560	50	Mid	0.07	0.094	17.47	18.60	1.297	0.122	/
	Level4&5&6		Back	15	21350	2560	1	Mid	-0.10	0.125	17.45	18.60	1.303	0.163	/
	Level4&5&6		Side	15	21350	2560	50	Mid	-0.02	0.122	17.47	18.60	1.297	0.158	/
	Level7&8&9		Front	15	20850	2510	1	Mid	0.06	0.065	19.43	20.60	1.309	0.085	/
Dow	Level7&8&9	QPSK	Side	15	21350	2560	50	Low	-0.11	0.063	19.44	20.60	1.306	0.082	/
n	Level7&8&9		Back	15	20850	2510	1	Mid	0.12	0.140	19.43	20.60	1.309	**0.183**	26#
	Level7&8&9		Side	15	21350	2560	50	Low	0.16	0.131	19.44	20.60	1.306	0.171	/
Hotspot															
	Level4&5&6		Front	10	21350	2560	1	Mid	-0.11	0.196	17.45	18.60	1.303	0.255	/
	Level4&5&6		Side	10	21350	2560	50	Mid	-0.05	0.193	17.47	18.60	1.297	0.250	/
	Level4&5&6		Back	10	21350	2560	1	Mid	0.06	0.243	17.45	18.60	1.303	0.317	/
	Level4&5&6		Side	10	21350	2560	50	Mid	-0.17	0.238	17.47	18.60	1.297	0.309	/
	Level4&5&6		Left	10	21350	2560	1	Mid	0.18	0.020	17.45	18.60	1.303	0.026	/
Up	Level4&5&6	QPSK	Edge	10	21350	2560	50	Mid	-0.07	0.018	17.47	18.60	1.297	0.023	/
	Level4&5&6		Right	10	21350	2560	1	Mid	-0.02	0.058	17.45	18.60	1.303	0.076	/
	Level4&5&6		Edge	10	21350	2560	50	Mid	-0.18	0.055	17.47	18.60	1.297	0.071	/
	Level4&5&6		Top Edg	10	21350	2560	1	Mid	-0.01	0.418	17.45	18.60	1.303	**0.545**	27#
	Level4&5&6		e	10	21350	2560	50	Mid	0.17	0.402	17.47	18.60	1.297	0.521	/
	Level7&8&9		Front	10	20850	2510	1	Mid	-0.08	0.089	19.43	20.60	1.309	0.117	/
	Level7&8&9		Side	10	21350	2560	50	Low	-0.17	0.083	19.44	20.60	1.306	0.108	/
	Level7&8&9		Back	10	20850	2510	1	Mid	-0.14	0.180	19.43	20.60	1.309	0.236	/
	Level7&8&9		Side	10	21350	2560	50	Low	-0.04	0.177	19.44	20.60	1.306	0.231	/
Dow	Level7&8&9		Left	10	20850	2510	1	Mid	0.11	0.084	19.43	20.60	1.309	0.110	/
n	Level7&8&9	QPSK	Edge	10	21350	2560	50	Low	-0.06	0.080	19.44	20.60	1.306	0.104	/
	Level7&8&9		Right	10	20850	2510	1	Mid	0.12	0.067	19.43	20.60	1.309	0.088	/
	Level7&8&9		Edge	10	21350	2560	50	Low	0.09	0.065	19.44	20.60	1.306	0.085	/
	Level7&8&9		Bottom	10	20850	2510	1	Mid	0.15	0.225	19.43	20.60	1.309	0.295	/
	Level7&8&9		Edge	10	21350	2560	50	Low	0.04	0.221	19.44	20.60	1.306	0.289	/

Fre. Band	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	10 g Meas. SAR (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	10 g Scaled SAR (W/Kg)	Meas. No.
Product Specific 10g SAR															
Up	Level4&5&6	QPSK	Front	0	21350	2560	1	Mid	-0.01	0.640	17.45	18.60	1.303	0.834	/
	Level4&5&6		Side	0	21350	2560	50	Mid	-0.13	0.635	17.47	18.60	1.297	0.824	/
	Level4&5&6		Back	0	21350	2560	1	Mid	-0.11	0.887	17.45	18.60	1.303	**1.156**	28#
	Level4&5&6		Side	0	21350	2560	50	Mid	-0.03	0.874	17.47	18.60	1.297	1.134	/
	Level4&5&6		Left	0	21350	2560	1	Mid	0.14	0.042	17.45	18.60	1.303	0.055	/
	Level4&5&6		Edge	0	21350	2560	50	Mid	0.09	0.040	17.47	18.60	1.297	0.052	/
	Level4&5&6		Right	0	21350	2560	1	Mid	-0.10	0.142	17.45	18.60	1.303	0.185	/
	Level4&5&6		Edge	0	21350	2560	50	Mid	0.17	0.135	17.47	18.60	1.297	0.175	/
	Level4&5&6		Top Edg	0	21350	2560	1	Mid	0.01	0.551	17.45	18.60	1.303	0.718	/
	Level4&5&6		e	0	21350	2560	50	Mid	-0.04	0.548	17.47	18.60	1.297	0.711	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.10 LTE Band 38 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Head															
Up	Level1&2&3	QPSK	Left	0	37850	2580	1	Mid	0.19	0.290	19.25	19.80	1.135	0.329	/
	Level1&2&3		Cheek	0	37850	2580	50	Mid	-0.12	0.275	19.15	19.80	1.161	0.319	/
	Level1&2&3		Left Tilt	0	37850	2580	1	Mid	0.12	0.286	19.25	19.80	1.135	0.325	/
	Level1&2&3			0	37850	2580	50	Mid	-0.04	0.267	19.15	19.80	1.161	0.310	/
	Level1&2&3		Right	0	37850	2580	1	Mid	-0.13	0.435	19.25	19.80	1.135	0.494	/
	Level1&2&3		Cheek	0	37850	2580	50	Mid	-0.03	0.417	19.15	19.80	1.161	0.484	/
	Level1&2&3		Right	0	37850	2580	1	Mid	-0.10	0.501	19.25	19.80	1.135	**0.569**	29#
	Level1&2&3		Tilt	0	37850	2580	50	Mid	0.05	0.489	19.15	19.80	1.161	0.568	/
Down	Off	QPSK	Left	0	37850	2580	1	Mid	-0.08	0.036	23.33	23.80	1.114	0.040	/
	Off		Cheek	0	37850	2580	50	Mid	0.17	0.032	22.24	22.80	1.138	0.036	/
	Off		Left Tilt	0	37850	2580	1	Mid	-0.05	0.024	23.33	23.80	1.114	0.027	/
	Off			0	37850	2580	50	Mid	-0.05	0.021	22.24	22.80	1.138	0.024	/
	Off		Right	0	37850	2580	1	Mid	0.05	0.047	23.33	23.80	1.114	0.052	/
	Off		Cheek	0	37850	2580	50	Mid	-0.07	0.045	22.24	22.80	1.138	0.051	/
	Off		Right	0	37850	2580	1	Mid	-0.12	0.040	23.33	23.80	1.114	0.045	/
	Off		Tilt	0	37850	2580	50	Mid	-0.09	0.038	22.24	22.80	1.138	0.043	/
Body-worn Accessory															
Up	Level4&5&6	QPSK	Front	15	37850	2580	1	Mid	-0.10	0.052	20.18	20.80	1.153	0.060	/
	Level4&5&6		Side	15	37850	2580	50	Mid	0.05	0.047	20.10	20.80	1.175	0.055	/
	Level4&5&6		Back	15	37850	2580	1	Mid	-0.08	0.076	20.18	20.80	1.153	**0.087**	30#
	Level4&5&6		Side	15	37850	2580	50	Mid	0.14	0.069	20.10	20.80	1.175	0.081	/

Down	Level7&8&9	QPSK	Front	15	37850	2580	1	Mid	-0.17	0.025	20.18	20.80	1.153	0.029	/
	Level7&8&9		Side	15	37850	2580	50	Mid	0.16	0.023	20.10	20.80	1.175	0.027	/
	Level7&8&9		Back	15	37850	2580	1	Mid	0.01	0.067	20.18	20.80	1.153	0.078	/
	Level7&8&9		Side	15	37850	2580	50	Mid	-0.14	0.060	20.10	20.80	1.175	0.070	/
Hotspot															
Up	Level4&5&6	QPSK	Front	10	37850	2580	1	Mid	0.06	0.114	20.18	20.80	1.153	0.131	/
	Level4&5&6		Side	10	37850	2580	50	Mid	0.02	0.108	20.10	20.80	1.175	0.127	/
	Level4&5&6		Back	10	37850	2580	1	Mid	0.10	0.166	20.18	20.80	1.153	0.191	/
	Level4&5&6		Side	10	37850	2580	50	Mid	0.16	0.162	20.10	20.80	1.175	0.190	/
	Level4&5&6		Left	10	37850	2580	1	Mid	0.10	0.012	20.18	20.80	1.153	0.014	/
	Level4&5&6		Edge	10	37850	2580	50	Mid	0.11	0.011	20.10	20.80	1.175	0.013	/
	Level4&5&6		Right	10	37850	2580	1	Mid	-0.05	0.035	20.18	20.80	1.153	0.040	/
	Level4&5&6		Edge	10	37850	2580	50	Mid	-0.04	0.032	20.10	20.80	1.175	0.038	/
	Level4&5&6		Top Edg	10	37850	2580	1	Mid	0.16	0.187	20.18	20.80	1.153	**0.216**	31#
	Level4&5&6		e	10	37850	2580	50	Mid	0.02	0.183	20.10	20.80	1.175	0.215	/
Down	Level7&8&9	QPSK	Front	10	37850	2580	1	Mid	-0.15	0.034	20.18	20.80	1.153	0.039	/
	Level7&8&9		Side	10	37850	2580	50	Mid	-0.14	0.032	20.10	20.80	1.175	0.038	/
	Level7&8&9		Back	10	37850	2580	1	Mid	-0.18	0.088	20.18	20.80	1.153	0.102	/
	Level7&8&9		Side	10	37850	2580	50	Mid	0.12	0.085	20.10	20.80	1.175	0.100	/
	Level7&8&9		Left	10	37850	2580	1	Mid	-0.16	0.025	20.18	20.80	1.153	0.029	/
	Level7&8&9		Edge	10	37850	2580	50	Mid	0.13	0.021	20.10	20.80	1.175	0.025	/
	Level7&8&9		Right	10	37850	2580	1	Mid	0.11	0.018	20.18	20.80	1.153	0.021	/
	Level7&8&9		Edge	10	37850	2580	50	Mid	0.09	0.017	20.10	20.80	1.175	0.020	/
	Level7&8&9		Bottom	10	37850	2580	1	Mid	0.10	0.085	20.18	20.80	1.153	0.098	/
	Level7&8&9		Edge	10	37850	2580	50	Mid	-0.06	0.083	20.10	20.80	1.175	0.098	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.11 LTE Band 41 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Numb.	RB Start	Power Drift (dB)	Meas. SAR1 g (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Head															
Up	Level1&2&3	QPSK	Left	0	41140	2645	1	Mid	0.01	0.384	18.67	19.10	1.104	0.424	/
	Level1&2&3		Cheek	0	41140	2645	50	Mid	-0.06	0.368	18.51	19.10	1.146	0.422	/
	Level1&2&3		Left Tilt	0	41140	2645	1	Mid	-0.04	0.399	18.67	19.10	1.104	0.441	/
	Level1&2&3			0	41140	2645	50	Mid	0.16	0.382	18.51	19.10	1.146	0.438	/
	Level1&2&3		Right	0	41140	2645	1	Mid	-0.11	0.576	18.67	19.10	1.104	0.636	/
	Level1&2&3		Cheek	0	41140	2645	50	Mid	-0.10	0.550	18.51	19.10	1.146	0.630	/
	Level1&2&3		Right	0	41140	2645	1	Mid	0.08	0.652	18.67	19.10	1.104	**0.720**	32#
	Level1&2&3		Tilt	0	41140	2645	50	Mid	-0.07	0.625	18.51	19.10	1.146	0.716	/
Down	Off	QPSK	Left	0	41140	2645	1	Mid	-0.02	0.039	23.27	23.60	1.079	0.042	/
	Off		Cheek	0	41140	2645	50	Mid	-0.14	0.038	22.15	22.60	1.109	0.042	/
	Off		Left Tilt	0	41140	2645	1	Mid	-0.18	0.022	23.27	23.60	1.079	0.024	/

	Off			0	41140	2645	50	Mid	-0.13	0.020	22.15	22.60	1.109	0.022	/
	Off		Right	0	41140	2645	1	Mid	0.07	0.044	23.27	23.60	1.079	0.047	/
	Off		Cheek	0	41140	2645	50	Mid	0.04	0.041	22.15	22.60	1.109	0.045	/
	Off		Right	0	41140	2645	1	Mid	-0.18	0.037	23.27	23.60	1.079	0.040	/
	Off		Tilt	0	41140	2645	50	Mid	-0.10	0.032	22.15	22.60	1.109	0.035	/
Body-worn Accessory															
Up	Level4&5&6	QPSK	Front	15	41140	2645	1	Mid	0.05	0.063	19.03	19.60	1.140	0.072	/
	Level4&5&6		Side	15	41140	2645	50	Mid	-0.12	0.060	18.90	19.60	1.175	0.070	/
	Level4&5&6		Back	15	41140	2645	1	Mid	-0.02	0.075	19.03	19.60	1.140	**0.086**	33#
	Level4&5&6		Side	15	41140	2645	50	Mid	0.11	0.072	18.90	19.60	1.175	0.085	/
Down	Level7&8&9	QPSK	Front	15	41140	2645	1	Mid	-0.06	0.060	19.97	20.60	1.156	0.069	/
	Level7&8&9		Side	15	41140	2645	50	Mid	-0.10	0.058	19.85	20.60	1.189	0.069	/
	Level7&8&9		Back	15	41140	2645	1	Mid	0.15	0.064	19.97	20.60	1.156	0.074	/
	Level7&8&9		Side	15	41140	2645	50	Mid	0.18	0.061	19.85	20.60	1.189	0.072	/
Hotspot															
Up	Level4&5&6	QPSK	Front	10	41140	2645	1	Mid	-0.08	0.152	19.03	19.60	1.140	0.173	/
	Level4&5&6		Side	10	41140	2645	50	Mid	0.02	0.148	18.90	19.60	1.175	0.174	/
	Level4&5&6		Back	10	41140	2645	1	Mid	0.07	0.179	19.03	19.60	1.140	0.204	/
	Level4&5&6		Side	10	41140	2645	50	Mid	0.06	0.173	18.90	19.60	1.175	0.203	/
	Level4&5&6		Left	10	41140	2645	1	Mid	-0.09	0.014	19.03	19.60	1.140	0.016	/
	Level4&5&6		Edge	10	41140	2645	50	Mid	0.01	0.012	18.90	19.60	1.175	0.014	/
	Level4&5&6		Right	10	41140	2645	1	Mid	0.01	0.033	19.03	19.60	1.140	0.038	/
	Level4&5&6		Edge	10	41140	2645	50	Mid	-0.13	0.031	18.90	19.60	1.175	0.036	/
	Level4&5&6		Top Edg	10	41140	2645	1	Mid	0.05	0.259	19.03	19.60	1.140	**0.295**	34#
	Level4&5&6		e	10	41140	2645	50	Mid	-0.17	0.250	18.90	19.60	1.175	0.294	/
Down	Level7&8&9	QPSK	Front	10	41140	2645	1	Mid	-0.10	0.058	19.97	20.60	1.156	0.067	/
	Level7&8&9		Side	10	41140	2645	50	Mid	0.09	0.056	19.85	20.60	1.189	0.067	/
	Level7&8&9		Back	10	41140	2645	1	Mid	0.17	0.097	19.97	20.60	1.156	0.112	/
	Level7&8&9		Side	10	41140	2645	50	Mid	0.14	0.095	19.85	20.60	1.189	0.113	/
	Level7&8&9		Left	10	41140	2645	1	Mid	0.11	0.051	19.97	20.60	1.156	0.059	/
	Level7&8&9		Edge	10	41140	2645	50	Mid	-0.03	0.050	19.85	20.60	1.189	0.059	/
	Level7&8&9		Right	10	41140	2645	1	Mid	-0.14	0.029	19.97	20.60	1.156	0.034	/
	Level7&8&9		Edge	10	41140	2645	50	Mid	0.03	0.026	19.85	20.60	1.189	0.031	/
	Level7&8&9		Bottom	10	41140	2645	1	Mid	0.11	0.141	19.97	20.60	1.156	0.163	/
	Level7&8&9		Edge	10	41140	2645	50	Mid	0.19	0.137	19.85	20.60	1.189	0.163	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.12 WIFI 2.4GHz

Mode	Power Reduction	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas. SAR (W/Kg)	Meas. Power (dBm)	Max. 1tune-up Power (dBm)	Scaling Factor	Duty Cycle (%)	Duty Cycle Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Head														
802.11 b	Level1&2	Left Cheek	0	6	2437	-0.07	0.690	17.51	18.50	1.256	99.00	1.010	0.875	/
	Level1&2		0	1	2412	0.02	0.573	17.02	18.50	1.406	99.00	1.010	0.814	/
	Level1&2		0	11	2462	0.09	0.597	16.60	18.50	1.549	99.00	1.010	**0.934**	35#
	Level1&2	Left Tilt	0	6	2437	-0.09	0.634	17.51	18.50	1.256	99.00	1.010	0.804	/
	Level1&2		0	1	2412	0.05	0.528	17.02	18.50	1.406	99.00	1.010	0.750	/
	Level1&2		0	11	2462	-0.09	0.545	16.60	18.50	1.549	99.00	1.010	0.853	/
	Level1&2	Right Cheek	0	6	2437	-0.12	0.265	17.51	18.50	1.256	99.00	1.010	0.336	/
	Level1&2	Right Tilt	0	6	2437	0.01	0.249	17.51	18.50	1.256	99.00	1.010	0.316	/
Body-worn Accessory														
802.11 b	Off	Front Side	15	6	2437	-0.15	0.079	18.99	20.00	1.262	99.00	1.010	0.101	/
	Off	Back Side	15	6	2437	-0.12	0.083	18.99	20.00	1.262	99.00	1.010	**0.105**	36#
Hotspot														
802.11 b	Off	Front Side	10	6	2437	-0.18	0.169	18.99	20.00	1.262	99.00	1.010	0.215	/
	Off	Back Side	10	6	2437	-0.09	0.240	18.99	20.00	1.262	99.00	1.010	**0.306**	37#
	Off	Left Edge	10	6	2437	0.16	0.186	18.99	20.00	1.262	99.00	1.010	0.237	/
	Off	Top Edge	10	6	2437	-0.12	0.025	18.99	20.00	1.262	99.00	1.010	0.032	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

10.13 5G WIFI

Fre. Band	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	1 g Scaled SAR (W/Kg)	Meas. No.
Head															
5.2G	Level1&2	802.11a	Left Cheek	0	60	5300	-0.01	0.307	11.91	13.00	1.285	96.90	1.032	0.407	/
	Level1&2		Left Tilt	0	60	5300	0.05	0.316	11.91	13.00	1.285	96.90	1.032	**0.419**	38#
	Level1&2		Right Cheek	0	60	5300	-0.18	0.186	11.91	13.00	1.285	96.90	1.032	0.247	/
	Level1&2		Right Tilt	0	60	5300	0.05	0.220	11.91	13.00	1.285	96.90	1.032	0.292	/
5.6G	Level1&2	802.11a	Left Cheek	0	100	5500	0.03	0.240	11.21	12.50	1.346	96.90	1.032	0.333	/
	Level1&2		Left Tilt	0	100	5500	-0.05	0.251	11.21	12.50	1.346	96.90	1.032	**0.349**	39#
	Level1&2		Right Cheek	0	100	5500	0.09	0.151	11.21	12.50	1.346	96.90	1.032	0.210	/
	Level1&2		Right Tilt	0	100	5500	-0.16	0.180	11.21	12.50	1.346	96.90	1.032	0.250	/
5.8G	Level1&2	802.11a	Left Cheek	0	149	5745	-0.15	0.333	12.49	13.50	1.262	96.90	1.032	0.434	/
	Level1&2		Left Tilt	0	149	5745	0.18	0.360	12.49	13.50	1.262	96.90	1.032	**0.469**	40#
	Level1&2		Right Cheek	0	149	5745	0.06	0.194	12.49	13.50	1.262	96.90	1.032	0.253	/
	Level1&2		Right Tilt	0	149	5745	-0.10	0.225	12.49	13.50	1.262	96.90	1.032	0.293	/

Body-worn Accessory															
5.2G	Off	802.11a	Front Side	15	60	5300	-0.04	0.125	17.12	18.00	1.225	96.90	1.032	0.158	/
	Off		Back Side	15	60	5300	0.18	0.198	17.12	18.00	1.225	96.90	1.032	**0.250**	41#
5.6G	Off	802.11a	Front Side	15	116	5580	0.11	0.130	16.28	18.00	1.486	96.90	1.032	0.199	/
	Off		Back Side	15	116	5580	-0.12	0.230	16.28	18.00	1.486	96.90	1.032	**0.353**	42#
5.8G	Off	802.11a	Front Side	15	149	5745	0.09	0.148	16.65	17.50	1.216	96.90	1.032	0.186	/
	Off		Back Side	15	149	5745	0.11	0.223	16.65	17.50	1.216	96.90	1.032	**0.280**	43#
Hotspot															
5.2G	Off	802.11a	Front Side	10	44	5220	-0.08	0.164	16.60	18.00	1.380	96.90	1.032	0.234	/
	Off		Back Side	10	44	5220	-0.11	0.260	16.60	18.00	1.380	96.90	1.032	0.370	/
	Off		Left Edge	10	44	5220	0.06	0.196	16.60	18.00	1.380	96.90	1.032	0.279	/
	Off		Right Edge	10	44	5220	-0.09	0.015	16.60	18.00	1.380	96.90	1.032	0.021	/
	Off		Top Edge	10	44	5220	-0.06	0.329	16.60	18.00	1.380	96.90	1.032	**0.469**	44#
5.8G	Off	802.11a	Front Side	10	149	5745	-0.03	0.225	16.65	17.50	1.216	96.90	1.032	0.282	/
	Off		Back Side	10	149	5745	0.09	0.338	16.65	17.50	1.216	96.90	1.032	0.424	/
	Off		Left Edge	10	149	5745	-0.02	0.206	16.65	17.50	1.216	96.90	1.032	0.259	/
	Off		Right Edge	10	149	5745	-0.02	0.018	16.65	17.50	1.216	96.90	1.032	0.023	/
	Off		Top Edge	10	149	5745	-0.08	0.353	16.65	17.50	1.216	96.90	1.032	**0.443**	45#

Fre. Band	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	10 g Scaled SAR (W/Kg)	Meas. No.
Product Specific 10g SAR															
5.3G	Off	802.11a	Front Side	0	60	5300	0.11	0.478	17.12	18.00	1.225	96.90	1.032	0.604	/
	Off		Back Side	0	60	5300	0.13	0.357	17.12	18.00	1.225	96.90	1.032	0.451	/
	Off		Left Edge	0	60	5300	-0.13	0.713	17.12	18.00	1.225	96.90	1.032	0.901	/
	Off		Right Edge	0	60	5300	-0.14	0.051	17.12	18.00	1.225	96.90	1.032	0.064	/
	Off		Top Edge	0	60	5300	0.14	0.716	17.12	18.00	1.225	96.90	1.032	**0.905**	46#
5.6G	Off	802.11a	Front Side	0	116	5580	0.03	0.436	16.28	18.00	1.486	96.90	1.032	0.669	/
	Off		Back Side	0	116	5580	-0.14	0.419	16.28	18.00	1.486	96.90	1.032	0.643	/
	Off		Left Edge	0	116	5580	0.00	0.666	16.28	18.00	1.486	96.90	1.032	1.021	/
	Off		Right Edge	0	116	5580	0.08	0.098	16.28	18.00	1.486	96.90	1.032	0.150	/
	Off		Top Edge	0	116	5580	0.14	0.740	16.28	18.00	1.486	96.90	1.032	**1.135**	47#

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

10.14 Bluetooth

Mode	Power Reduction	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas. SAR (W/Kg)	Meas. Power (dBm)	Max. tune-up Power (dBm)	Scaling Factor	Duty Cycle (%)	Duty Cycle Factor	1 g Scaled SAR (W/Kg)	Meas. No.
Head														
BR	Off	Left Cheek	0	39	2441	0.10	0.102	11.65	13.00	1.365	76.80	1.302	**0.181**	48#
	Off	Left Tilt	0	39	2441	-0.02	0.091	11.65	13.00	1.365	76.80	1.302	0.162	/
	Off	Right Cheek	0	39	2441	0.18	0.039	11.65	13.00	1.365	76.80	1.302	0.069	/
	Off	Right Tilt	0	39	2441	0.08	0.038	11.65	13.00	1.365	76.80	1.302	0.067	/
Body-worn Accessory														
BR	Off	Front Side	15	39	2441	-0.03	0.005	11.65	13.00	1.365	76.80	1.302	0.009	/
	Off	Back Side	15	39	2441	-0.17	0.006	11.65	13.00	1.365	76.80	1.302	**0.010**	49#
Hotspot														
BR	Off	Front Side	10	39	2441	0.06	0.011	11.65	13.00	1.365	76.80	1.302	0.020	/
	Off	Back Side	10	39	2441	-0.03	0.013	11.65	13.00	1.365	76.80	1.302	**0.023**	50#
	Off	Left Edge	10	39	2441	0.03	0.011	11.65	13.00	1.365	76.80	1.302	0.020	/
	Off	Right Edge	10	39	2441	-0.05	0.002	11.65	13.00	1.365	76.80	1.302	0.004	/
	Off	Top Edge	10	39	2441	0.18	0.012	11.65	13.00	1.365	76.80	1.302	0.021	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

11 SAR Measurement Variability

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

SAR repeated measurement procedure:

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

Frequency Band (MHz)	Wireless Band	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	Largest to Smallest SAR Radio
2600	LTE Band 7	Head	Right Tilt	0.867	Yes	0.832	1.04
Note1: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20, the second repeated measurement is not required. Note2: The highest 10g measured SAR is 1.156 W/kg < 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	Product Specific
1	GSM + WiFi 2.4G	Yes	Yes	Yes	Yes
2	GSM + WiFi 5G	Yes	Yes	Yes	Yes
3	GSM + Bluetooth	Yes	Yes	Yes	Yes
4	GSM + WiFi 5G + Bluetooth	Yes	Yes	Yes	Yes
5	WCDMA + WiFi 2.4G	Yes	Yes	Yes	Yes
6	WCDMA + Blutooth	Yes	Yes	Yes	Yes
7	WCDMA + WiFi 5G	Yes	Yes	Yes	Yes
8	WCDMA + WiFi 5G + Bluetooth	Yes	Yes	Yes	Yes
9	LTE + WiFi 2.4G	Yes	Yes	Yes	Yes
10	LTE + Blutooth	Yes	Yes	Yes	Yes
11	LTE + WiFi 5G	Yes	Yes	Yes	Yes
12	LTE + WiFi 5G + Bluetooth	Yes	Yes	Yes	Yes

Note:

1. 2G&3G&4G share the same antenna and can’t transmit simultaneously.
2. The Bluetooth and 2.4G WLAN share the same antenna, can’t transmitting together.
3. The 2.4G WLAN or 5G WLAN can transmit simultaneously with each WWAN.
4. Two WWAN antennas can switch automatically, but up and down antenna can't transmit simultaneously.
5. The maximum SAR summation is calculated based on the same configuration and test position.

12.2 Sum SAR of Simultaneous Transmission

12.2.1 Head Simultaneous Transmission SAR Evaluation for WWAN DAT with WLAN

Band	Power Reduction	Position	Stand alone SAR				SUM SAR WWAN+2.4G WIFI	SUM SAR WWAN+5G WIFI	SUM SAR WWAN+Bluetooth	SUM SAR WWAN+5G WIFI +Bluetooth
			1	2	3	4				
			WWAN	2.4GWIFI	5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3)	Sum SAR (1+4)	Sum SAR (1+3+4)
GSM 850	Off	Left Cheek	0.174	0.934	0.434	0.181	1.108	0.608	0.355	0.789
	Off	Left Tilt	0.082	0.853	0.469	0.162	0.935	0.551	0.244	0.713
	Off	Right Cheek	0.169	0.336	0.253	0.069	0.505	0.422	0.238	0.491
	Off	Right Tilt	0.078	0.316	0.293	0.067	0.394	0.371	0.145	0.438
GSM1900	Off	Left Cheek	0.158	0.934	0.434	0.181	1.092	0.592	0.339	0.773
	Off	Left Tilt	0.104	0.853	0.469	0.162	0.957	0.573	0.266	0.735
	Off	Right Cheek	0.149	0.336	0.253	0.069	0.485	0.402	0.218	0.471
	Off	Right Tilt	0.126	0.316	0.293	0.067	0.442	0.419	0.193	0.486
WCDMA B2	Off	Left Cheek	0.162	0.934	0.434	0.181	1.096	0.596	0.343	0.777
	Off	Left Tilt	0.107	0.853	0.469	0.162	0.960	0.576	0.269	0.738
	Off	Right Cheek	0.151	0.336	0.253	0.069	0.487	0.404	0.220	0.473
	Off	Right Tilt	0.129	0.316	0.293	0.067	0.445	0.422	0.196	0.489
WCDMA B4	Off	Left Cheek	0.148	0.934	0.434	0.181	1.082	0.582	0.329	0.763
	Off	Left Tilt	0.095	0.853	0.469	0.162	0.948	0.564	0.257	0.726
	Off	Right Cheek	0.116	0.336	0.253	0.069	0.452	0.369	0.185	0.438
	Off	Right Tilt	0.095	0.316	0.293	0.067	0.411	0.388	0.162	0.455
WCDMA B5	Off	Left Cheek	0.222	0.934	0.434	0.181	**1.156**	0.656	0.403	0.837
	Off	Left Tilt	0.106	0.853	0.469	0.162	0.959	0.575	0.268	0.737
	Off	Right Cheek	0.215	0.336	0.253	0.069	0.551	0.468	0.284	0.537
	Off	Right Tilt	0.103	0.316	0.293	0.067	0.419	0.396	0.170	0.463
LTE B2	Off	Left Cheek	0.176	0.934	0.434	0.181	1.110	0.610	0.357	0.791
	Off	Left Tilt	0.119	0.853	0.469	0.162	0.972	0.588	0.281	0.750
	Off	Right Cheek	0.171	0.336	0.253	0.069	0.507	0.424	0.240	0.493
	Off	Right Tilt	0.149	0.316	0.293	0.067	0.465	0.442	0.216	0.509
LTE B4	Off	Left Cheek	0.148	0.934	0.434	0.181	1.082	0.582	0.329	0.763
	Off	Left Tilt	0.092	0.853	0.469	0.162	0.945	0.561	0.254	0.723
	Off	Right Cheek	0.111	0.336	0.253	0.069	0.447	0.364	0.180	0.433
	Off	Right Tilt	0.090	0.316	0.293	0.067	0.406	0.383	0.157	0.450
LTE B5	Off	Left Cheek	0.216	0.934	0.434	0.181	1.150	0.650	0.397	0.831
	Off	Left Tilt	0.106	0.853	0.469	0.162	0.959	0.575	0.268	0.737
	Off	Right Cheek	0.206	0.336	0.253	0.069	0.542	0.459	0.275	0.528
	Off	Right Tilt	0.106	0.316	0.293	0.067	0.422	0.399	0.173	0.466
LTE B7	Off	Left Cheek	0.045	0.934	0.434	0.181	0.979	0.479	0.226	0.660
	Off	Left Tilt	0.031	0.853	0.469	0.162	0.884	0.500	0.193	0.662
	Off	Right Cheek	0.058	0.336	0.253	0.069	0.394	0.311	0.127	0.380

	Off	Right Tilt	0.053	0.316	0.293	0.067	0.369	0.346	0.120	0.413
LTE B38	Off	Left Cheek	0.040	0.934	0.434	0.181	0.974	0.474	0.221	0.655
	Off	Left Tilt	0.027	0.853	0.469	0.162	0.880	0.496	0.189	0.658
	Off	Right Cheek	0.052	0.336	0.253	0.069	0.388	0.305	0.121	0.374
	Off	Right Tilt	0.045	0.316	0.293	0.067	0.361	0.338	0.112	0.405
LTE B41	Off	Left Cheek	0.042	0.934	0.434	0.181	0.976	0.476	0.223	0.657
	Off	Left Tilt	0.024	0.853	0.469	0.162	0.877	0.493	0.186	0.655
	Off	Right Cheek	0.047	0.336	0.253	0.069	0.383	0.300	0.116	0.369
	Off	Right Tilt	0.040	0.316	0.293	0.067	0.356	0.333	0.107	0.400

Note:

1: Only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 10g SAR is 1.156 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.2 Body-worn Simultaneous Transmission SAR Evaluation for WWAN DAT with WLAN

Band	Power Reduction	Position	Stand alone SAR				SUM SAR WWAN+2.4G WIFI	SUM SAR WWAN+5G WIFI	SUM SAR WWAN+Bluetooth	SUM SAR WWAN+5G WIFI +Bluetooth
			1	2	3	4				
			WWAN	2.4GWIFI	5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3)	Sum SAR (1+4)	Sum SAR (1+3+4)
GSM 850	Off	Front Side 15mm	0.224	0.101	0.199	0.009	0.325	0.423	0.233	0.432
	Off	Back Side 15mm	0.313	0.105	0.353	0.010	0.418	0.666	0.323	**0.676**
GSM1900	Level 8&9	Front Side 15mm	0.113	0.101	0.199	0.009	0.214	0.312	0.122	0.321
	Level 8&9	Back Side 15mm	0.139	0.105	0.353	0.010	0.244	0.492	0.149	0.502
WCDMA B2	Level 8&9	Front Side 15mm	0.077	0.101	0.199	0.009	0.178	0.276	0.086	0.285
	Level 8&9	Back Side 15mm	0.093	0.105	0.353	0.010	0.198	0.446	0.103	0.456
WCDMA B4	Level 8&9	Front Side 15mm	0.059	0.101	0.199	0.009	0.160	0.258	0.068	0.267
	Level 8&9	Back Side 15mm	0.101	0.105	0.353	0.010	0.206	0.454	0.111	0.464
WCDMA B5	Off	Front Side 15mm	0.186	0.101	0.199	0.009	0.287	0.385	0.195	0.394
	Off	Back Side 15mm	0.255	0.105	0.353	0.010	0.360	0.608	0.265	0.618
LTE B2	Level 8&9	Front Side 15mm	0.073	0.101	0.199	0.009	0.174	0.272	0.082	0.281
	Level 8&9	Back Side 15mm	0.025	0.105	0.353	0.010	0.130	0.378	0.035	0.388

LTE B4	Level 8&9	Front Side 15mm	0.146	0.101	0.199	0.009	0.247	0.345	0.155	0.354
	Level 8&9	Back Side 15mm	0.110	0.105	0.353	0.010	0.215	0.463	0.120	0.473
LTE B5	Off	Front Side 15mm	0.117	0.101	0.199	0.009	0.218	0.316	0.126	0.325
	Off	Back Side 15mm	0.279	0.105	0.353	0.010	0.384	0.632	0.289	0.642
LTE B7	Level 8&9	Front Side 15mm	0.085	0.101	0.199	0.009	0.186	0.284	0.094	0.293
	Level 8&9	Back Side 15mm	0.183	0.105	0.353	0.010	0.288	0.536	0.193	0.546
LTE B38	Level 8&9	Front Side 15mm	0.029	0.101	0.199	0.009	0.130	0.228	0.038	0.237
	Level 8&9	Back Side 15mm	0.078	0.105	0.353	0.010	0.183	0.431	0.088	0.441
LTE B41	Level 8&9	Front Side 15mm	0.069	0.101	0.199	0.009	0.170	0.268	0.078	0.277
	Level 8&9	Back Side 15mm	0.074	0.105	0.353	0.010	0.179	0.427	0.084	0.437

Note:

1: Only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 10g SAR is 0.676 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.3 Hotspot Simultaneous Transmission SAR Evaluation for WWAN DAT with WLAN

Band	Power Reduction	Position	Stand alone SAR				SUM SAR WWAN+2.4G WIFI	SUM SAR WWAN+5G WIFI	SUM SAR WWAN+Bluetooth	SUM SAR WWAN+5G WIFI +Bluetooth
			1	2	3	4				
			WWAN	2.4GWIFI	5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3)	Sum SAR (1+4)	Sum SAR (1+3+4)
GSM 850	Off	Front Side 10mm	0.229	0.215	0.282	0.020	0.444	0.511	0.249	0.531
	Off	Back Side 10mm	0.361	0.306	0.424	0.023	0.667	0.785	0.384	0.808
	Off	Left Edge 10mm	0.055	0.237	0.279	0.020	0.292	0.334	0.075	0.354
	Off	Right Edge 10mm	0.164	0.032	0.023	0.004	0.196	0.187	0.168	0.191
	Off	Bottom Edge 10mm	0.263	0.000	0.000	0.000	0.263	0.263	0.263	0.263
GSM1900	Level 8&9	Front Side 10mm	0.201	0.215	0.282	0.020	0.416	0.483	0.221	0.503
	Level 8&9	Back Side 10mm	0.278	0.306	0.424	0.023	0.584	0.702	0.301	0.725
	Level 8&9	Left Edge 10mm	0.168	0.237	0.279	0.020	0.405	0.447	0.188	0.467

	Level 8&9	Right Edge 10mm	0.057	0.032	0.023	0.004	0.089	0.080	0.061	0.084
	Level 8&9	Bottom Edge 10mm	0.266	0.000	0.000	0.000	0.266	0.266	0.266	0.266
WCDMA B2	Level 8&9	Front Side 10mm	0.127	0.215	0.282	0.020	0.342	0.409	0.147	0.429
	Level 8&9	Back Side 10mm	0.171	0.306	0.424	0.023	0.477	0.595	0.194	0.618
	Level 8&9	Left Edge 10mm	0.097	0.237	0.279	0.020	0.334	0.376	0.117	0.396
	Level 8&9	Right Edge 10mm	0.020	0.032	0.023	0.004	0.052	0.043	0.024	0.047
	Level 8&9	Bottom Edge 10mm	0.231	0.000	0.000	0.000	0.231	0.231	0.231	0.231
WCDMA B4	Level 8&9	Front Side 10mm	0.091	0.215	0.282	0.020	0.306	0.373	0.111	0.393
	Level 8&9	Back Side 10mm	0.192	0.306	0.424	0.023	0.498	0.616	0.215	0.639
	Level 8&9	Left Edge 10mm	0.070	0.237	0.279	0.020	0.307	0.349	0.090	0.369
	Level 8&9	Right Edge 10mm	0.044	0.032	0.023	0.004	0.076	0.067	0.048	0.071
	Level 8&9	Bottom Edge 10mm	0.258	0.000	0.000	0.000	0.258	0.258	0.258	0.258
WCDMA B5	Off	Front Side 10mm	0.201	0.215	0.282	0.020	0.416	0.483	0.221	0.503
	Off	Back Side 10mm	0.356	0.306	0.424	0.023	0.662	0.780	0.379	0.803
	Off	Left Edge 10mm	0.034	0.237	0.279	0.020	0.271	0.313	0.054	0.333
	Off	Right Edge 10mm	0.109	0.032	0.023	0.004	0.141	0.132	0.113	0.136
	Off	Bottom Edge 10mm	0.231	0.000	0.000	0.000	0.231	0.231	0.231	0.231
LTE B2	Level 8&9	Front Side 10mm	0.182	0.215	0.282	0.020	0.397	0.464	0.202	0.484
	Level 8&9	Back Side 10mm	0.216	0.306	0.424	0.023	0.522	0.640	0.239	0.663
	Level 8&9	Left Edge 10mm	0.076	0.237	0.279	0.020	0.313	0.355	0.096	0.375
	Level 8&9	Right Edge 10mm	0.018	0.032	0.023	0.004	0.050	0.041	0.022	0.045
	Level 8&9	Bottom Edge 10mm	0.277	0.000	0.000	0.000	0.277	0.277	0.277	0.277
LTE B4	Level 8&9	Front Side 10mm	0.180	0.215	0.282	0.020	0.395	0.462	0.200	0.482
	Level 8&9	Back Side 10mm	0.195	0.306	0.424	0.023	0.501	0.619	0.218	0.642
	Level 8&9	Left Edge 10mm	0.041	0.237	0.279	0.020	0.278	0.320	0.061	0.340

	Level 8&9	Right Edge 10mm	0.023	0.032	0.023	0.004	0.055	0.046	0.027	0.050
	Level 8&9	Bottom Edge 10mm	0.300	0.000	0.000	0.000	0.300	0.300	0.300	0.300
LTE B5	Off	Front Side 10mm	0.156	0.215	0.282	0.020	0.371	0.438	0.176	0.458
	Off	Back Side 10mm	0.372	0.306	0.424	0.023	0.678	0.796	0.395	**0.819**
	Off	Left Edge 10mm	0.044	0.237	0.279	0.020	0.281	0.323	0.064	0.343
	Off	Right Edge 10mm	0.082	0.032	0.023	0.004	0.114	0.105	0.086	0.109
	Off	Bottom Edge 10mm	0.230	0.000	0.000	0.000	0.230	0.230	0.230	0.230
LTE B7	Level 8&9	Front Side 10mm	0.117	0.215	0.282	0.020	0.332	0.399	0.137	0.419
	Level 8&9	Back Side 10mm	0.236	0.306	0.424	0.023	0.542	0.660	0.259	0.683
	Level 8&9	Left Edge 10mm	0.110	0.237	0.279	0.020	0.347	0.389	0.130	0.409
	Level 8&9	Right Edge 10mm	0.088	0.032	0.023	0.004	0.120	0.111	0.092	0.115
	Level 8&9	Bottom Edge 10mm	0.295	0.000	0.000	0.000	0.295	0.295	0.295	0.295
LTE B38	Level 8&9	Front Side 10mm	0.039	0.215	0.282	0.020	0.254	0.321	0.059	0.341
	Level 8&9	Back Side 10mm	0.102	0.306	0.424	0.023	0.408	0.526	0.125	0.549
	Level 8&9	Left Edge 10mm	0.029	0.237	0.279	0.020	0.266	0.308	0.049	0.328
	Level 8&9	Right Edge 10mm	0.021	0.032	0.023	0.004	0.053	0.044	0.025	0.048
	Level 8&9	Bottom Edge 10mm	0.098	0.000	0.000	0.000	0.098	0.098	0.098	0.098
LTE B41	Level 8&9	Front Side 10mm	0.067	0.215	0.282	0.020	0.282	0.349	0.087	0.369
	Level 8&9	Back Side 10mm	0.113	0.306	0.424	0.023	0.419	0.537	0.136	0.560
	Level 8&9	Left Edge 10mm	0.059	0.237	0.279	0.020	0.296	0.338	0.079	0.358
	Level 8&9	Right Edge 10mm	0.034	0.032	0.023	0.004	0.066	0.057	0.038	0.061
	Level 8&9	Bottom Edge 10mm	0.163	0.000	0.000	0.000	0.163	0.163	0.163	0.163

Note:

1: Only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 10g SAR is 0.819 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.4 Head Simultaneous Transmission SAR Evaluation for WWAN UAT with WLAN

Band	Power Reduction	Position	Stand alone SAR				SUM SAR WWAN+2.4G WIFI	SUM SAR WWAN+5G WIFI	SUM SAR WWAN+Bluetooth	SUM SAR WWAN+5G WIFI +Bluetooth
			1	2	3	4				
			WWAN	2.4GWIFI	5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3)	Sum SAR (1+4)	Sum SAR (1+3+4)
GSM 850	Level 2&3	Left Cheek	0.176	0.934	0.434	0.181	1.110	0.610	0.357	0.791
	Level 2&3	Left Tilt	0.145	0.853	0.469	0.162	0.998	0.614	0.307	0.776
	Level 2&3	Right Cheek	0.239	0.336	0.253	0.069	0.575	0.492	0.308	0.561
	Level 2&3	Right Tilt	0.180	0.316	0.293	0.067	0.496	0.473	0.247	0.540
GSM1900	Level 2&3	Left Cheek	0.227	0.934	0.434	0.181	1.161	0.661	0.408	0.842
	Level 2&3	Left Tilt	0.232	0.853	0.469	0.162	1.085	0.701	0.394	0.863
	Level 2&3	Right Cheek	0.606	0.336	0.253	0.069	0.942	0.859	0.675	0.928
	Level 2&3	Right Tilt	0.544	0.316	0.293	0.067	0.860	0.837	0.611	0.904
WCDMA B2	Level 2&3	Left Cheek	0.299	0.934	0.434	0.181	1.233	0.733	0.480	0.914
	Level 2&3	Left Tilt	0.317	0.853	0.469	0.162	1.170	0.786	0.479	0.948
	Level 2&3	Right Cheek	0.534	0.336	0.253	0.069	0.870	0.787	0.603	0.856
	Level 2&3	Right Tilt	0.472	0.316	0.293	0.067	0.788	0.765	0.539	0.832
WCDMA B4	Level 2&3	Left Cheek	0.183	0.934	0.434	0.181	1.117	0.617	0.364	0.798
	Level 2&3	Left Tilt	0.184	0.853	0.469	0.162	1.037	0.653	0.346	0.815
	Level 2&3	Right Cheek	0.292	0.336	0.253	0.069	0.628	0.545	0.361	0.614
	Level 2&3	Right Tilt	0.264	0.316	0.293	0.067	0.580	0.557	0.331	0.624
WCDMA B5	Level 2&3	Left Cheek	0.198	0.934	0.434	0.181	1.132	0.632	0.379	0.813
	Level 2&3	Left Tilt	0.163	0.853	0.469	0.162	1.016	0.632	0.325	0.794
	Level 2&3	Right Cheek	0.263	0.336	0.253	0.069	0.599	0.516	0.332	0.585
	Level 2&3	Right Tilt	0.229	0.316	0.293	0.067	0.545	0.522	0.296	0.589
LTE B2	Level 2&3	Left Cheek	0.367	0.934	0.434	0.181	1.301	0.801	0.548	0.982
	Level 2&3	Left Tilt	0.365	0.853	0.469	0.162	1.218	0.834	0.527	0.996
	Level 2&3	Right Cheek	0.603	0.336	0.253	0.069	0.939	0.856	0.672	0.925
	Level 2&3	Right Tilt	0.564	0.316	0.293	0.067	0.880	0.857	0.631	0.924
LTE B4	Level 2&3	Left Cheek	0.192	0.934	0.434	0.181	1.126	0.626	0.373	0.807
	Level 2&3	Left Tilt	0.192	0.853	0.469	0.162	1.045	0.661	0.354	0.823
	Level 2&3	Right Cheek	0.303	0.336	0.253	0.069	0.639	0.556	0.372	0.625
	Level 2&3	Right Tilt	0.259	0.316	0.293	0.067	0.575	0.552	0.326	0.619
LTE B5	Level 2&3	Left Cheek	0.216	0.934	0.434	0.181	1.150	0.650	0.397	0.831
	Level 2&3	Left Tilt	0.191	0.853	0.469	0.162	1.044	0.660	0.353	0.822
	Level 2&3	Right Cheek	0.279	0.336	0.253	0.069	0.615	0.532	0.348	0.601
	Level 2&3	Right Tilt	0.252	0.316	0.293	0.067	0.568	0.545	0.319	0.612
LTE B7	Level 2&3	Left Cheek	0.477	0.934	0.434	0.181	1.411	0.911	0.658	1.092
	Level 2&3	Left Tilt	0.523	0.853	0.469	0.162	1.376	0.992	0.685	1.154
	Level 2&3	Right Cheek	0.796	0.336	0.253	0.069	1.132	1.049	0.865	1.118
	Level 2&3	Right Tilt	1.135	0.316	0.293	0.067	1.451	1.428	1.202	**1.495**
LTE B38	Level 2&3	Left Cheek	0.329	0.934	0.434	0.181	1.263	0.763	0.510	0.944

	Level 2&3	Left Tilt	0.325	0.853	0.469	0.162	1.178	0.794	0.487	0.956
	Level 2&3	Right Cheek	0.494	0.336	0.253	0.069	0.830	0.747	0.563	0.816
	Level 2&3	Right Tilt	0.569	0.316	0.293	0.067	0.885	0.862	0.636	0.929
LTE B41	Level 2&3	Left Cheek	0.424	0.934	0.434	0.181	1.358	0.858	0.605	1.039
	Level 2&3	Left Tilt	0.441	0.853	0.469	0.162	1.294	0.910	0.603	1.072
	Level 2&3	Right Cheek	0.636	0.336	0.253	0.069	0.972	0.889	0.705	0.958
	Level 2&3	Right Tilt	0.720	0.316	0.293	0.067	1.036	1.013	0.787	1.080

Note:

1: Only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 10g SAR is 1.495 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 UAT with WLAN

Band	Power Reduction	Position	Stand alone SAR				SUM SAR WWAN+2.4G WIFI	SUM SAR WWAN+5G WIFI	SUM SAR WWAN+Bluetooth	SUM SAR WWAN+5G WIFI +Bluetooth
			1	2	3	4				
			WWAN	2.4GWIFI	5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3)	Sum SAR (1+4)	Sum SAR (1+3+4)
GSM 850	Off	Front Side 5mm	0.037	0.101	0.199	0.009	0.138	0.236	0.046	0.245
	Off	Back Side 5mm	0.060	0.105	0.353	0.010	0.165	0.413	0.070	0.423
GSM1900	Level 5&6	Front Side 5mm	0.109	0.101	0.199	0.009	0.210	0.308	0.118	0.317
	Level 5&6	Back Side 5mm	0.144	0.105	0.353	0.010	0.249	0.497	0.154	0.507
WCDMA B2	Level 5&6	Front Side 5mm	0.075	0.101	0.199	0.009	0.176	0.274	0.084	0.283
	Level 5&6	Back Side 5mm	0.102	0.105	0.353	0.010	0.207	0.455	0.112	0.465
WCDMA B4	Level 5&6	Front Side 5mm	0.025	0.101	0.199	0.009	0.126	0.224	0.034	0.233
	Level 5&6	Back Side 5mm	0.028	0.105	0.353	0.010	0.133	0.381	0.038	0.391
WCDMA B5	Off	Front Side 5mm	0.047	0.101	0.199	0.009	0.148	0.246	0.056	0.255
	Off	Back Side 5mm	0.066	0.105	0.353	0.010	0.171	0.419	0.076	0.429
LTE B2	Level 5&6	Front Side 5mm	0.089	0.101	0.199	0.009	0.190	0.288	0.098	0.297
	Level 5&6	Back Side 5mm	0.169	0.105	0.353	0.010	0.274	0.522	0.179	**0.532**
LTE B4	Level 5&6	Front Side 5mm	0.100	0.101	0.199	0.009	0.201	0.299	0.109	0.308
	Level 5&6	Back Side 5mm	0.164	0.105	0.353	0.010	0.269	0.517	0.174	0.527
LTE B5	Off	Front Side 5mm	0.045	0.101	0.199	0.009	0.146	0.244	0.054	0.253
	Off	Back Side 5mm	0.052	0.105	0.353	0.010	0.157	0.405	0.062	0.415
LTE B7	Level 5&6	Front Side 5mm	0.125	0.101	0.199	0.009	0.226	0.324	0.134	0.333
	Level 5&6	Back Side 5mm	0.163	0.105	0.353	0.010	0.268	0.516	0.173	0.526
LTE B38	Level 5&6	Front Side 5mm	0.060	0.101	0.199	0.009	0.161	0.259	0.069	0.268
	Level 5&6	Back Side 5mm	0.087	0.105	0.353	0.010	0.192	0.440	0.097	0.450
LTE B41	Level 5&6	Front Side 5mm	0.072	0.101	0.199	0.009	0.173	0.271	0.081	0.280
	Level 5&6	Back Side 5mm	0.086	0.105	0.353	0.010	0.191	0.439	0.096	0.449

Note:

1: Only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 10g SAR is 0.532 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.6 Hotspot Simultaneous Transmission SAR Evaluation for WWAN UAT With WLAN

Band	Power Reduction	Position	Stand alone SAR				SUM SAR WWAN+2.4G WIFI	SUM SAR WWAN+5G WIFI	SUM SAR WWAN+Bluetooth	SUM SAR WWAN+5G WIFI +Bluetooth
			1	2	3	4				
			WWAN	2.4GWIFI	5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3)	Sum SAR (1+4)	Sum SAR (1+3+4)
GSM 850	Off	Front Side 10mm	0.044	0.215	0.282	0.020	0.259	0.326	0.064	0.346
	Off	Back Side 10mm	0.071	0.306	0.424	0.023	0.377	0.495	0.094	0.518
	Off	Left Edge 10mm	0.011	0.237	0.279	0.020	0.248	0.290	0.031	0.310
	Off	Right Edge 10mm	0.025	0.032	0.023	0.004	0.057	0.048	0.029	0.052
	Off	Top Edge 10mm	0.054	0.259	0.469	0.021	0.313	0.523	0.075	0.544
GSM1900	Level 5&6	Front Side 10mm	0.176	0.215	0.282	0.020	0.391	0.458	0.196	0.478
	Level 5&6	Back Side 10mm	0.405	0.306	0.424	0.023	0.711	0.829	0.428	0.852
	Level 5&6	Left Edge 10mm	0.029	0.237	0.279	0.020	0.266	0.308	0.049	0.328
	Level 5&6	Right Edge 10mm	0.134	0.032	0.023	0.004	0.166	0.157	0.138	0.161
	Level 5&6	Top Edge 10mm	0.163	0.259	0.469	0.021	0.422	0.632	0.184	0.653
WCDMA B2	Level 5&6	Front Side 10mm	0.175	0.215	0.282	0.020	0.390	0.457	0.195	0.477
	Level 5&6	Back Side 10mm	0.299	0.306	0.424	0.023	0.605	0.723	0.322	0.746
	Level 5&6	Left Edge 10mm	0.031	0.237	0.279	0.020	0.268	0.310	0.051	0.330
	Level 5&6	Right Edge 10mm	0.144	0.032	0.023	0.004	0.176	0.167	0.148	0.171
	Level 5&6	Top Edge 10mm	0.160	0.259	0.469	0.021	0.419	0.629	0.181	0.650
WCDMA B4	Level 5&6	Front Side 10mm	0.061	0.215	0.282	0.020	0.276	0.343	0.081	0.363
	Level 5&6	Back Side 10mm	0.089	0.306	0.424	0.023	0.395	0.513	0.112	0.536
	Level 5&6	Left Edge 10mm	0.019	0.237	0.279	0.020	0.256	0.298	0.039	0.318
	Level 5&6	Right Edge 10mm	0.047	0.032	0.023	0.004	0.079	0.070	0.051	0.074

	Level 5&6	Top Edge 10mm	0.070	0.259	0.469	0.021	0.329	0.539	0.091	0.560
WCDMA B5	Off	Front Side 10mm	0.064	0.215	0.282	0.020	0.279	0.346	0.084	0.366
	Off	Back Side 10mm	0.115	0.306	0.424	0.023	0.421	0.539	0.138	0.562
	Off	Left Edge 10mm	0.020	0.237	0.279	0.020	0.257	0.299	0.040	0.319
	Off	Right Edge 10mm	0.053	0.032	0.023	0.004	0.085	0.076	0.057	0.080
	Off	Top Edge 10mm	0.111	0.259	0.469	0.021	0.370	0.580	0.132	0.601
LTE B2	Level 5&6	Front Side 10mm	0.159	0.215	0.282	0.020	0.374	0.441	0.179	0.461
	Level 5&6	Back Side 10mm	0.300	0.306	0.424	0.023	0.606	0.724	0.323	0.747
	Level 5&6	Left Edge 10mm	0.027	0.237	0.279	0.020	0.264	0.306	0.047	0.326
	Level 5&6	Right Edge 10mm	0.092	0.032	0.023	0.004	0.124	0.115	0.096	0.119
	Level 5&6	Top Edge 10mm	0.188	0.259	0.469	0.021	0.447	0.657	0.209	0.678
LTE B4	Level 5&6	Front Side 10mm	0.114	0.215	0.282	0.020	0.329	0.396	0.134	0.416
	Level 5&6	Back Side 10mm	0.117	0.306	0.424	0.023	0.423	0.541	0.140	0.564
	Level 5&6	Left Edge 10mm	0.035	0.237	0.279	0.020	0.272	0.314	0.055	0.334
	Level 5&6	Right Edge 10mm	0.101	0.032	0.023	0.004	0.133	0.124	0.105	0.128
	Level 5&6	Top Edge 10mm	0.087	0.259	0.469	0.021	0.346	0.556	0.108	0.577
LTE B5	Off	Front Side 10mm	0.056	0.215	0.282	0.020	0.271	0.338	0.076	0.358
	Off	Back Side 10mm	0.066	0.306	0.424	0.023	0.372	0.490	0.089	0.513
	Off	Left Edge 10mm	0.012	0.237	0.279	0.020	0.249	0.291	0.032	0.311
	Off	Right Edge 10mm	0.031	0.032	0.023	0.004	0.063	0.054	0.035	0.058
	Off	Top Edge 10mm	0.054	0.259	0.469	0.021	0.313	0.523	0.075	0.544
LTE B7	Level 5&6	Front Side 10mm	0.255	0.215	0.282	0.020	0.470	0.537	0.275	0.557

	Level 5&6	Back Side 10mm	0.317	0.306	0.424	0.023	0.623	0.741	0.340	0.764
	Level 5&6	Left Edge 10mm	0.026	0.237	0.279	0.020	0.263	0.305	0.046	0.325
	Level 5&6	Right Edge 10mm	0.076	0.032	0.023	0.004	0.108	0.099	0.080	0.103
	Level 5&6	Top Edge 10mm	0.545	0.259	0.469	0.021	0.804	1.014	0.566	**1.035**
LTE B38	Level 5&6	Front Side 10mm	0.131	0.215	0.282	0.020	0.346	0.413	0.151	0.433
	Level 5&6	Back Side 10mm	0.191	0.306	0.424	0.023	0.497	0.615	0.214	0.638
	Level 5&6	Left Edge 10mm	0.014	0.237	0.279	0.020	0.251	0.293	0.034	0.313
	Level 5&6	Right Edge 10mm	0.040	0.032	0.023	0.004	0.072	0.063	0.044	0.067
	Level 5&6	Top Edge 10mm	0.216	0.259	0.469	0.021	0.475	0.685	0.237	0.706
LTE B41	Level 5&6	Front Side 10mm	0.174	0.215	0.282	0.020	0.389	0.456	0.194	0.476
	Level 5&6	Back Side 10mm	0.204	0.306	0.424	0.023	0.510	0.628	0.227	0.651
	Level 5&6	Left Edge 10mm	0.016	0.237	0.279	0.020	0.253	0.295	0.036	0.315
	Level 5&6	Right Edge 10mm	0.038	0.032	0.023	0.004	0.070	0.061	0.042	0.065
	Level 5&6	Top Edge 10mm	0.295	0.259	0.469	0.021	0.554	0.764	0.316	0.785

Note:

1: Only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 10g SAR is 1.035 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.7 Product Specific 10g Simultaneous Transmission SAR Evaluation for WWAN UAT with WLAN 5G

Band	Power Reduction	Position	Stand alone SAR		**SUM SAR WWAN+5G WLAN**
			1	2	
			WWAN	5GWIFI	Sum SAR (1+2)
LTE B7	Level 5&6	Front Side 0mm	0.834	0.669	1.503
	Level 5&6	Back Side 0mm	1.156	0.643	1.798
	Level 5&6	Left Edge 0mm	0.055	1.021	1.076
	Level 5&6	Right Edge 0mm	0.185	0.150	0.335
	Level 5&6	Top Edge 0mm	0.718	1.135	**1.853**

13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.8.8.1222	N/A	N/A
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2017/06/26	2020/06/25
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2017/07/01	2020/06/30
1900MHz Validation Dipole	Speag	D1900V2	SN: 5d193	2017/06/30	2020/06/29
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2017/03/21	2020/03/20
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2017/07/10	2020/07/09
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2017/06/29	2020/06/28
E-Field Probe	Speag	EX3DV4	SN: 7510	2019/08/02	2020/08/01
Data Acquisition Electronics	Speag	DAE4	SN: 1454	2019/08/02	2020/08/01
Signal Generator	R&S	SMBV100A	260592	2019/06/13	2020/06/12
Power Meter	R&S	NRVD-B2	7250BJ-0112/2011	2019/10/30	2020/10/29
Power Sensor	R&S	NRV-Z4	100381	2019/10/30	2020/10/29
Power Sensor	R&S	NRV-Z2	100211	2019/10/30	2020/10/29
Wireless Communication Test Set	Agilent	8960-E5515C	MY50260493	2019/10/30	2020/10/29
Wireless Communication Test Set	R&S	CMW 500	104946	2019/10/30	2020/10/29
Network Analyzer	R&S	ZVL-6	101380	2019/06/20	2020/06/19
Thermometer	Elitech	RC-4HC	N/A	2019/11/02	2020/11/01
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.

Date	Liquid Type	Fre. (MHz)	Temp. (℃)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity (σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2019.12.27	Head	835	21.3	0.92	40.59	0.90	41.50	2.22	-2.19
2019.12.28	Head	835	20.8	0.90	40.94	0.90	41.50	0.00	-1.35
2019.12.29	Head	835	21.2	0.89	41.86	0.90	41.50	-1.11	0.87
2019.12.30	Head	1750	21.4	1.36	38.85	1.37	40.08	-0.73	-3.07
2019.12.31	Head	1750	21.3	1.40	39.55	1.37	40.08	2.19	-1.32
2020.01.02	Head	1900	21.2	1.44	40.56	1.40	40.00	2.86	1.40
2020.01.03	Head	1900	20.9	1.41	40.90	1.40	40.00	0.71	2.25
2020.01.04	Head	1900	21.1	1.38	39.21	1.40	40.00	-1.43	-1.98
2020.01.11	Head	2450	21.3	1.77	38.08	1.80	39.20	-1.67	-2.86
2020.01.10	Head	2600	21.3	2.04	37.55	1.96	39.01	4.08	-3.74
2020.01.09	Head	2600	21.4	1.91	38.50	1.96	39.01	-2.55	-1.31
2020.01.08	Head	2600	21.0	1.92	39.97	1.96	39.01	-2.04	2.46
2020.01.07	Head	2600	20.8	1.92	40.14	1.96	39.01	-2.04	2.90
2020.01.06	Head	2600	21.1	1.97	38.39	1.96	39.01	0.51	-1.59
2020.01.05	Head	2600	21.0	1.99	37.86	1.96	39.01	1.53	-2.95
2020.01.12	Head	5250	21.5	4.72	36.20	4.71	35.93	0.21	0.75
2020.01.13	Head	5250	21.3	4.78	35.54	4.71	35.93	1.49	-1.09
2020.01.14	Head	5600	20.9	4.90	34.93	5.07	35.53	-3.35	-1.69
2020.01.15	Head	5750	21.0	5.31	34.43	5.22	35.36	1.72	-2.63
Note: The tolerance limit of Conductivity and Permittivity is± 5%.									

ANNEX B SYSTEM CHECK RESULT

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

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)	Targeted SAR(W/kg)	Tolerance (%)
2019.12.27	Head	835	100	0.911	9.11	9.75	-6.56	9.56	-4.71
2019.12.28	Head	835	100	0.943	9.43	9.75	-3.28	9.56	-1.36
2019.12.29	Head	835	100	0.935	9.35	9.75	-4.10	9.56	-2.20
2019.12.30	Head	1750	100	3.620	36.20	36.90	-1.90	36.40	-0.55
2019.12.31	Head	1750	100	3.630	36.30	36.90	-1.63	36.40	-0.27
2020.01.02	Head	1900	100	4.150	41.50	39.90	4.01	39.70	4.53
2020.01.03	Head	1900	100	4.060	40.60	39.90	1.75	39.70	2.27
2020.01.04	Head	1900	100	3.930	39.30	39.90	-1.50	39.70	-1.01
2020.01.11	Head	2450	100	5.450	54.50	52.40	4.01	52.40	4.01
2020.01.10	Head	2600	100	5.650	56.50	56.40	0.18	55.30	2.17
2020.01.09	Head	2600	100	5.720	57.20	56.40	1.42	55.30	3.44
2020.01.08	Head	2600	100	5.910	59.10	56.40	4.79	55.30	6.87
2020.01.07	Head	2600	100	5.410	54.10	56.40	-4.08	55.30	-2.17
2020.01.06	Head	2600	100	5.220	52.20	56.40	-7.45	55.30	-5.61
2020.01.05	Head	2600	100	5.190	51.90	56.40	-7.98	55.30	-6.15
2020.01.12	Head	5250	100	8.160	81.60	76.20	7.09	76.50	6.67
2020.01.13	Head	5250	100	7.740	77.40	76.20	1.57	76.50	1.18
2020.01.14	Head	5600	100	8.190	81.90	82.60	-0.85	83.30	-1.68
2020.01.15	Head	5750	100	8.130	81.30	80.80	0.62	78.00	4.23
Note: The tolerance limit of System validation ±10%.									

System Performance Check Data (835MHz Head)

Date: 2019.12.27
Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.923 S/m; ε_r = 40.586; ρ = 1000 kg/m^3
Phantom section: Flat Section

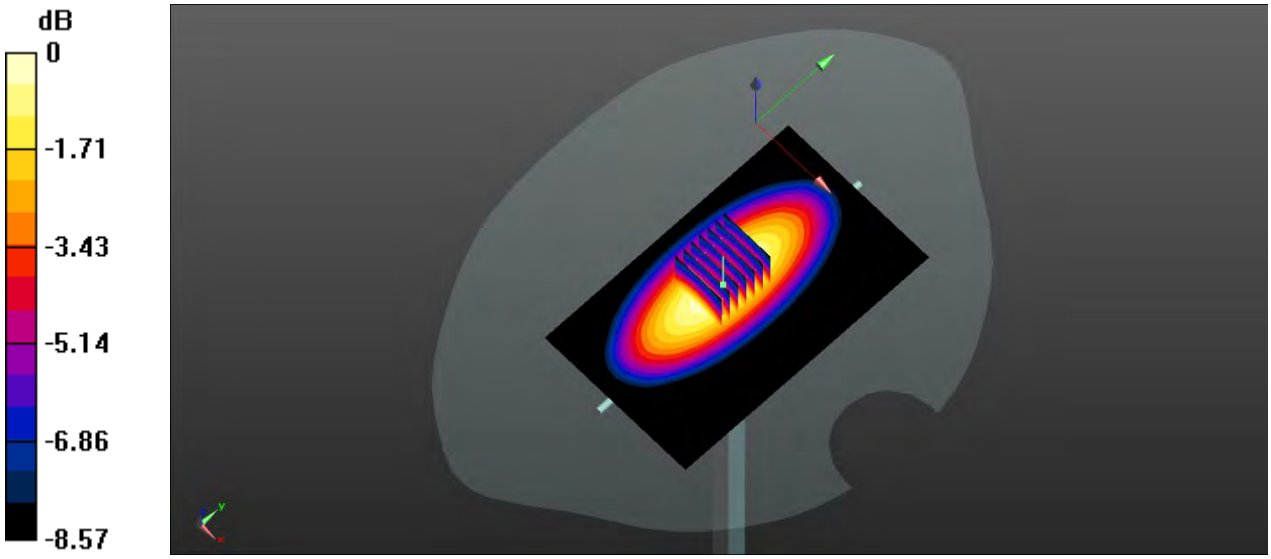
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 835 100mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.971 W/kg

CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 32.52 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.26 W/kg
SAR(1 g) = 0.911 W/kg; SAR(10 g) = 0.628 W/kg
Maximum value of SAR (measured) = 0.978 W/kg



0 dB = 0.978 W/kg

System Performance Check Data (835MHz Head)

Date: 2019.12.28
Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.896 S/m; ε_r = 40.935; ρ = 1000 kg/m^3
Phantom section: Flat Section

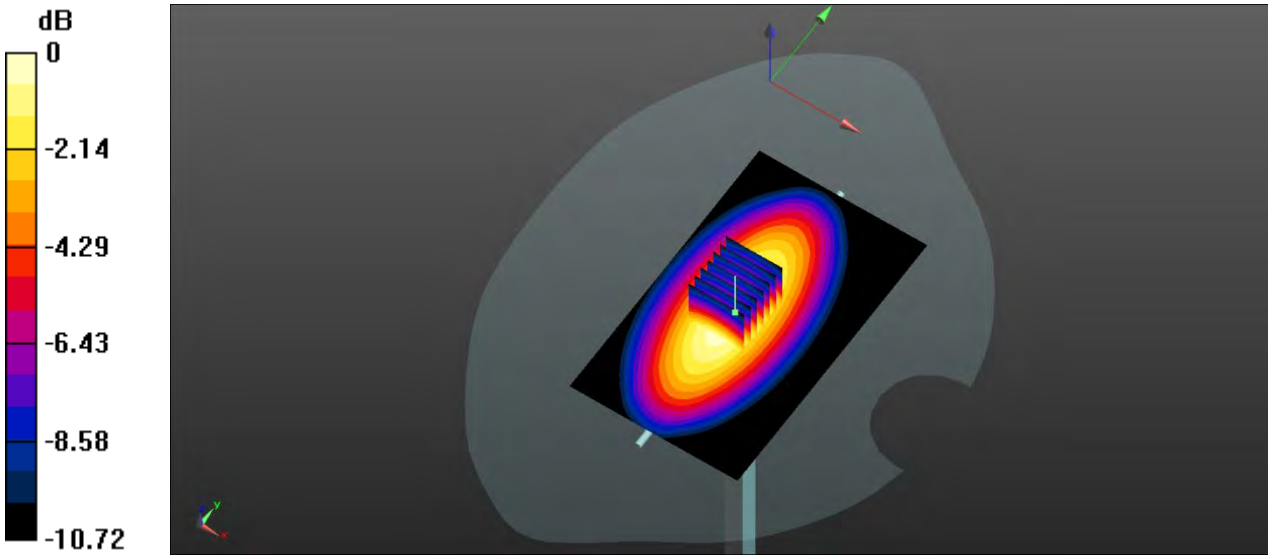
Ambient Temperature:22.2 Liquid Temperature:20.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 835 100mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.02 W/kg

CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 33.81 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.42 W/kg
SAR(1 g) = 0.943 W/kg; SAR(10 g) = 0.614 W/kg
Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg

System Performance Check Data (835MHz Head)

Date: 2019.12.29
Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used: f = 835 MHz; σ = 0.886 S/m; ε_r = 41.856; ρ = 1000 kg/m^3
Phantom section: Flat Section

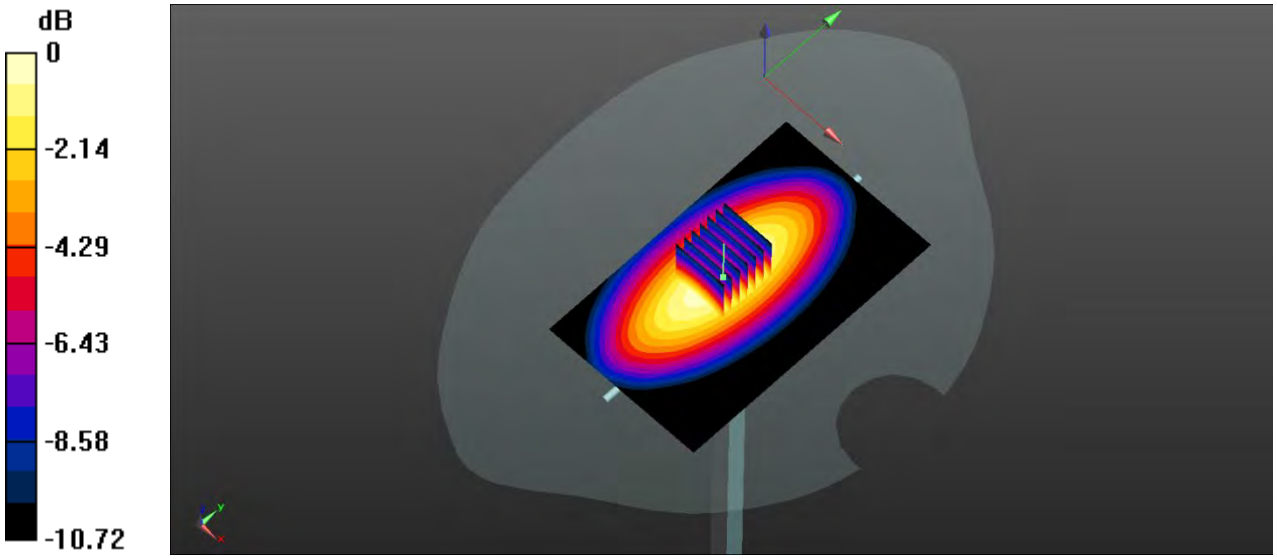
Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 835 100mW/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.998 W/kg

CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 32.99 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 0.935 W/kg; SAR(10 g) = 0.608 W/kg
Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg

System Performance Check Data (1750MHz Head)

Date: 2019.12.30
Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.358 S/m; ε_r = 38.85; ρ = 1000 kg/m^3
Phantom section: Flat Section

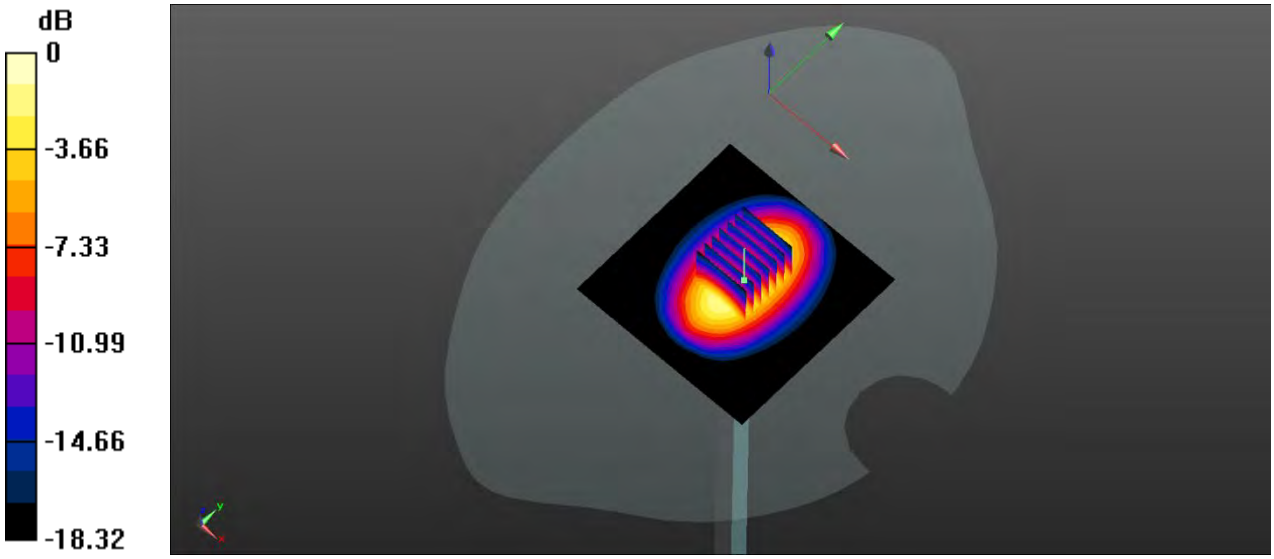
Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 1750 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 4.09 W/kg

CW 1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 54.24 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 7.04 W/kg
SAR(1 g) = 3.62 W/kg; SAR(10 g) = 1.86 W/kg
Maximum value of SAR (measured) = 4.06 W/kg



0 dB = 4.06 W/kg

System Performance Check Data (1750MHz Head)

Date: 2019.12.31
Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.402 S/m; ε_r = 39.55; ρ = 1000 kg/m^3
Phantom section: Flat Section

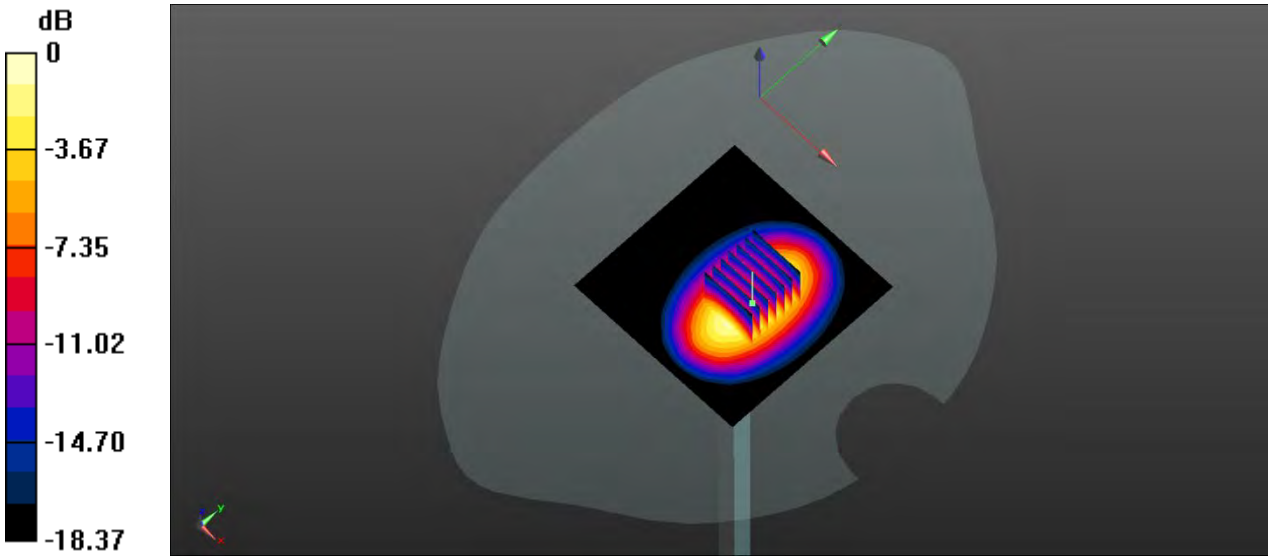
Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 1750 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 4.09 W/kg

CW 1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 37.81 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 7.05 W/kg
SAR(1 g) = 3.63 W/kg; SAR(10 g) = 1.87 W/kg
Maximum value of SAR (measured) = 4.09 W/kg



0 dB = 4.09 W/kg

System Performance Check Data (1900MHz Head)

Date: 2020.01.02
Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.435 S/m; ε_r = 40.56; ρ = 1000 kg/m^3
Phantom section: Flat Section

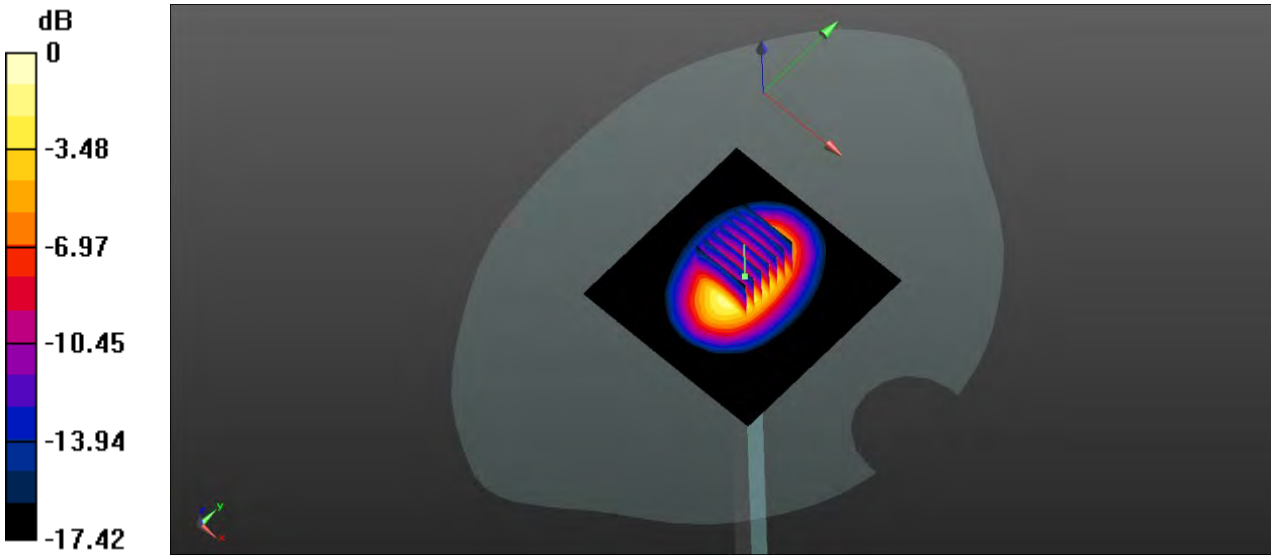
Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; 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) = 4.73 W/kg

CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 55.32 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 7.78 W/kg
SAR(1 g) = 4.15 W/kg; SAR(10 g) = 2.16 W/kg
Maximum value of SAR (measured) = 4.67 W/kg



0 dB = 4.67 W/kg

System Performance Check Data (1900MHz Head)

Date: 2020.01.03
Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.405 S/m; ε_r = 40.896; ρ = 1000 kg/m^3
Phantom section: Flat Section

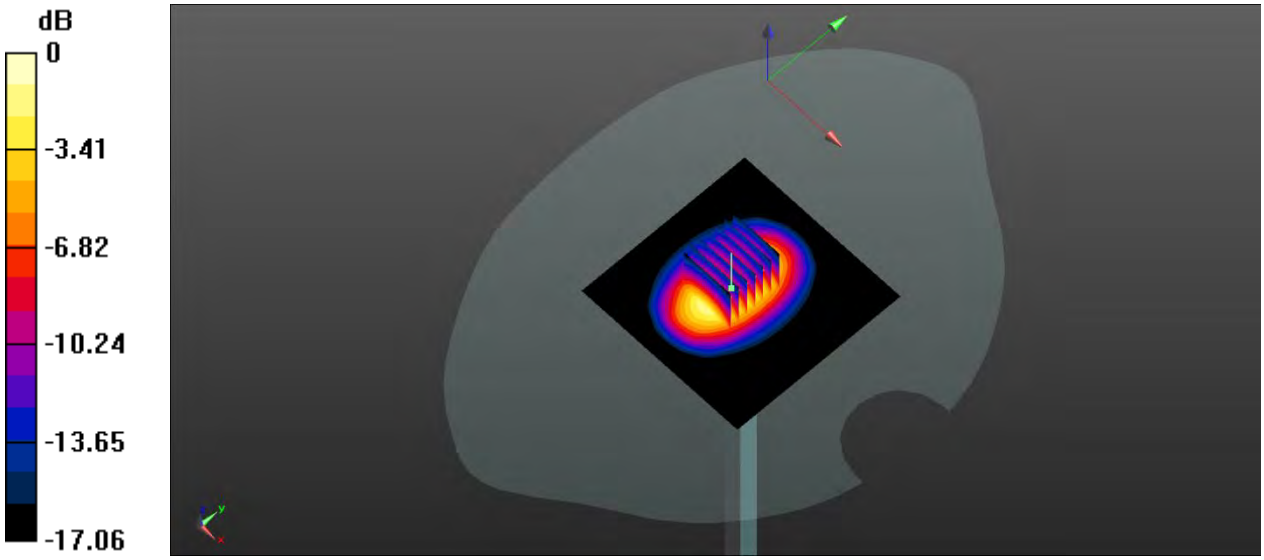
Ambient Temperature:22.1 Liquid Temperature:20.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; 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) = 4.65 W/kg

CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 51.62 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 7.46 W/kg
SAR(1 g) = 4.06 W/kg; SAR(10 g) = 2.11 W/kg
Maximum value of SAR (measured) = 4.56 W/kg



0 dB = 4.56 W/kg

System Performance Check Data (1900MHz Head)

Date: 2020.01.04
Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.38 S/m; ε_r = 39.213; ρ = 1000 kg/m^3
Phantom section: Flat Section

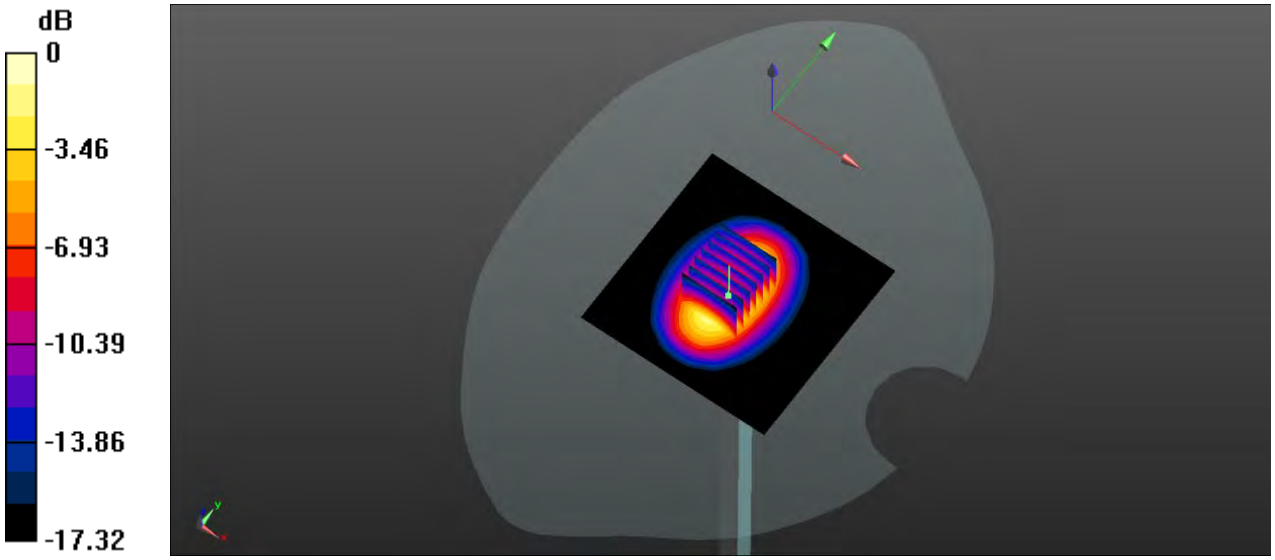
Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; 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) = 4.43 W/kg

CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.45 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 7.28 W/kg
SAR(1 g) = 3.93 W/kg; SAR(10 g) = 2.05 W/kg
Maximum value of SAR (measured) = 4.42 W/kg



0 dB = 4.42 W/kg

System Performance Check Data (2450MHz Head)

Date: 2020.01.11
Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.77 S/m; ε_r = 38.075; ρ = 1000 kg/m^3
Phantom section: Flat Section

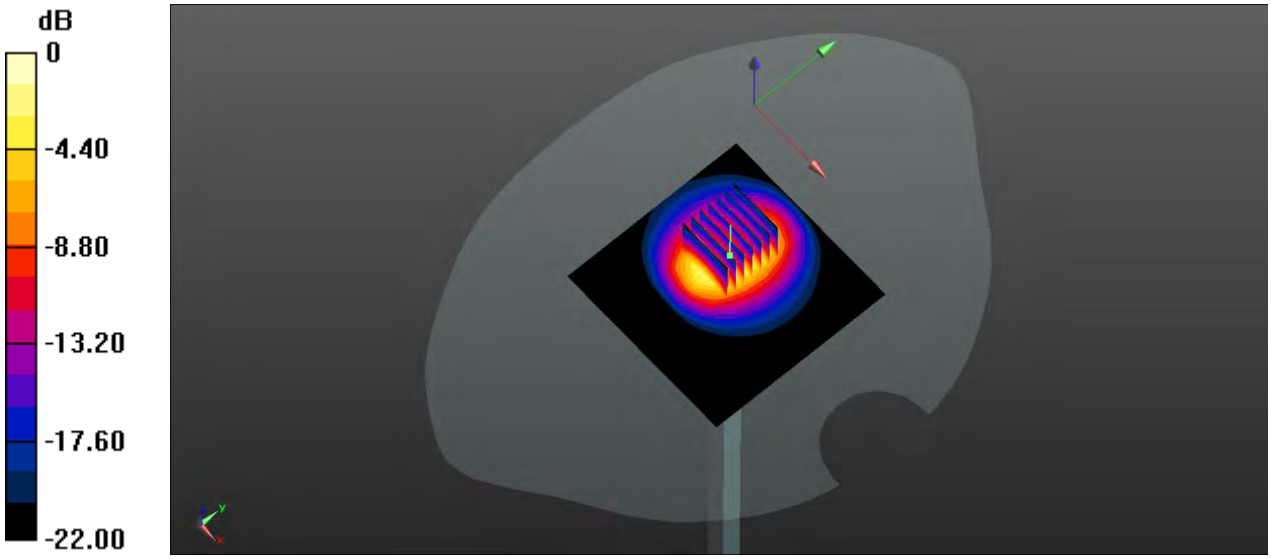
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2450 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 6.21 W/kg

CW 2450 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 35.06 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 11.9 W/kg
SAR(1 g) = 5.45 W/kg; SAR(10 g) = 2.49 W/kg
Maximum value of SAR (measured) = 6.17 W/kg



0 dB = 6.17 W/kg

System Performance Check Data (2600MHz Head)

Date: 2020.01.10
Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used (extrapolated): f = 2600 MHz; σ = 2.039 S/m; ε_r = 37.553; ρ = 1000 kg/m^3
Phantom section: Flat Section

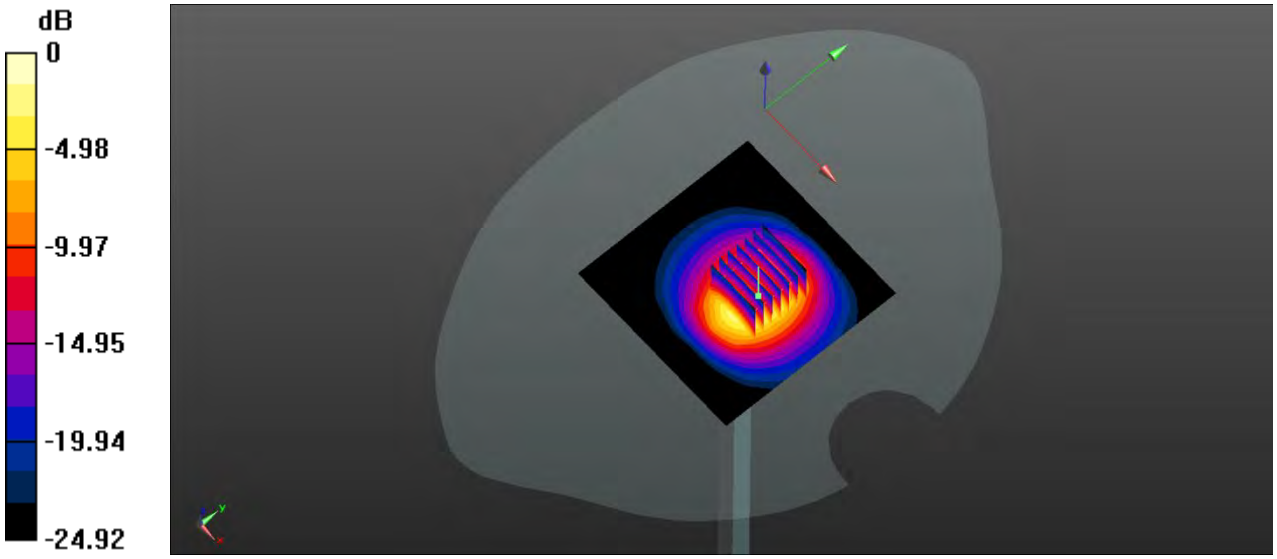
Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 6.52 W/kg

CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 37.65 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 12.8 W/kg
SAR(1 g) = 5.65 W/kg; SAR(10 g) = 2.46 W/kg
Maximum value of SAR (measured) = 6.41 W/kg



0 dB = 6.41 W/kg

System Performance Check Data (2600MHz Head)

Date: 2020.01.09
Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used (extrapolated): f = 2600 MHz; σ = 1.914 S/m; ε_r = 38.502; ρ = 1000 kg/m^3
Phantom section: Flat Section

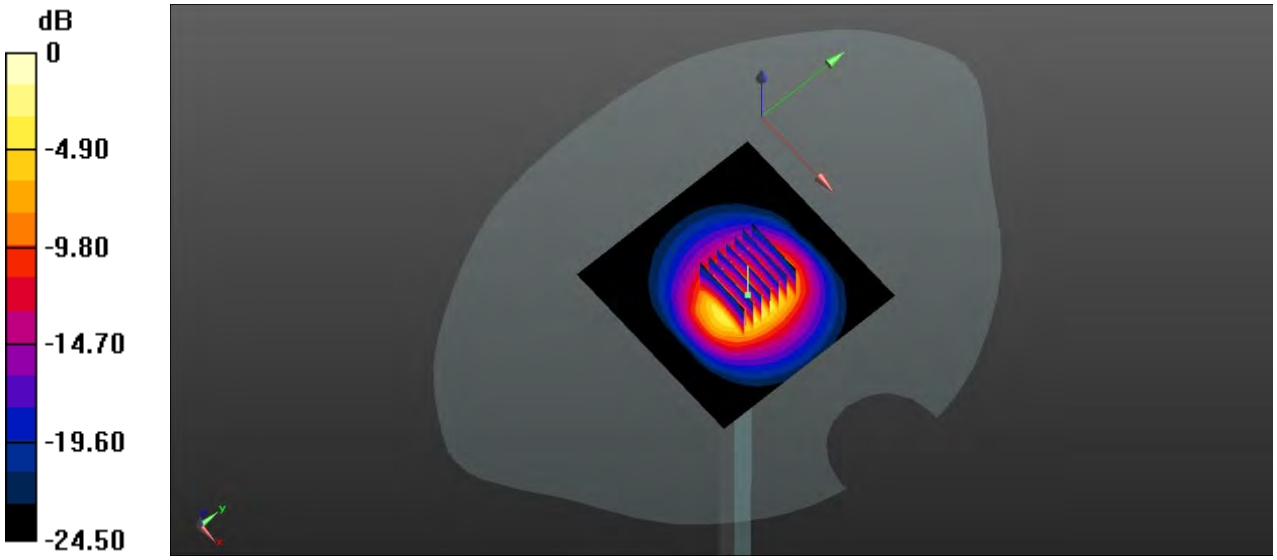
Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 6.57 W/kg

CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.11 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 12.9 W/kg
SAR(1 g) = 5.72 W/kg; SAR(10 g) = 2.51 W/kg
Maximum value of SAR (measured) = 6.53 W/kg



0 dB = 6.53 W/kg

System Performance Check Data (2600MHz Head)

Date: 2020.01.08
Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used (extrapolated): f = 2600 MHz; σ = 1.918 S/m; ε_r = 39.965; ρ = 1000 kg/m^3
Phantom section: Flat Section

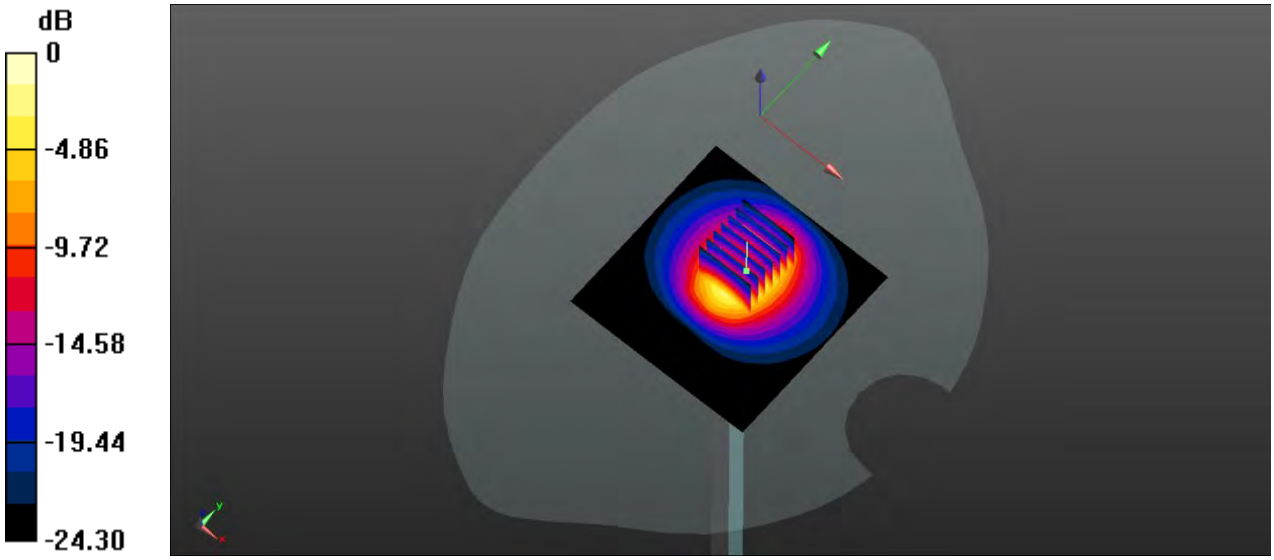
Ambient Temperature:22.3 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 6.89 W/kg

CW 2600 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.25 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 13.9 W/kg
SAR(1 g) = 5.91 W/kg; SAR(10 g) = 2.57 W/kg
Maximum value of SAR (measured) = 6.78 W/kg



0 dB = 6.78 W/kg

System Performance Check Data (2600MHz Head)

Date: 2020.01.07
Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used (extrapolated): f = 2600 MHz; σ = 1.92 S/m; ε_r = 40.138; ρ = 1000 kg/m^3
Phantom section: Flat Section

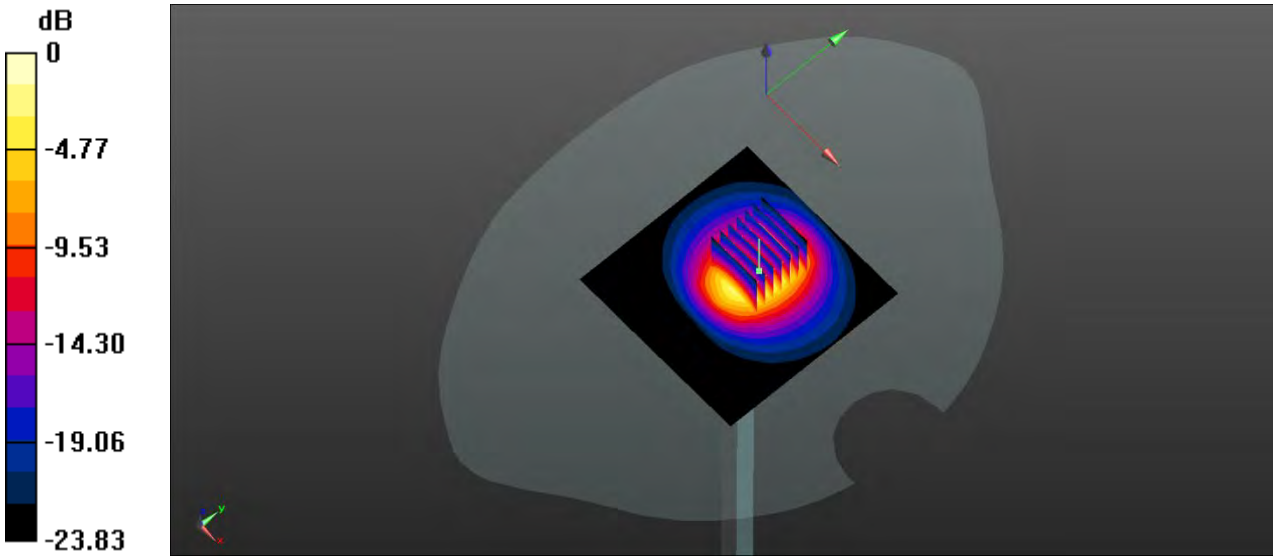
Ambient Temperature:22.1 Liquid Temperature:20.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 6.30 W/kg

CW 2600 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 47.94 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 12.6 W/kg
SAR(1 g) = 5.41 W/kg; SAR(10 g) = 2.36 W/kg
Maximum value of SAR (measured) = 6.18 W/kg



0 dB = 6.18 W/kg

System Performance Check Data (2600MHz Head)

Date: 2020.01.06
Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.968 S/m; ε_r = 38.385; ρ = 1000 kg/m^3
Phantom section: Flat Section

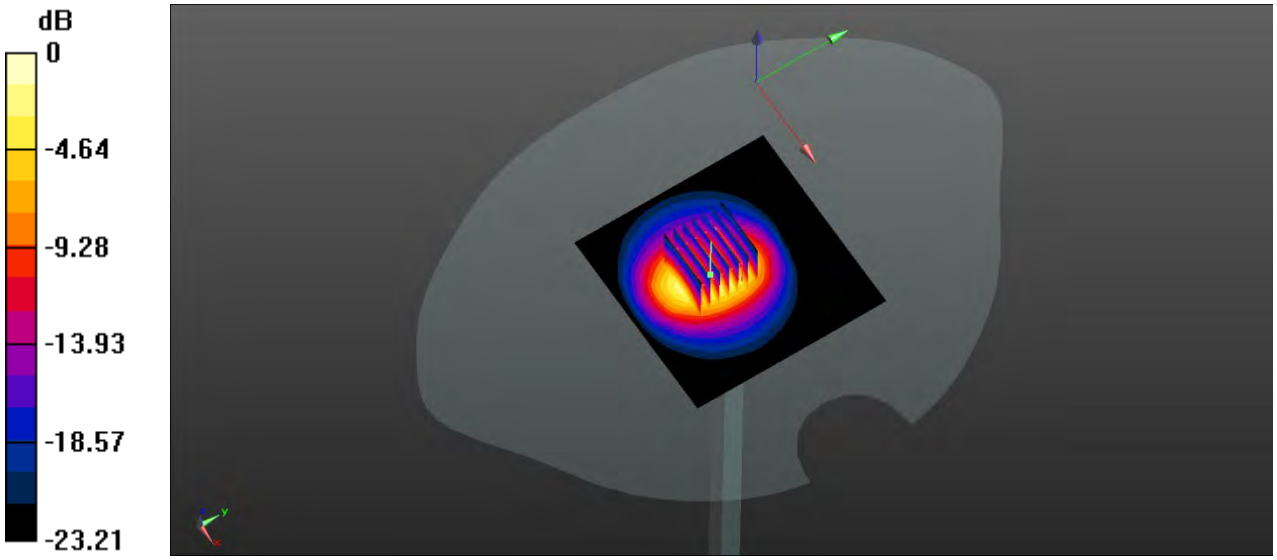
Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 6.02 W/kg

CW 2600 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.52 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 11.6 W/kg
SAR(1 g) = 5.22 W/kg; SAR(10 g) = 2.34 W/kg
Maximum value of SAR (measured) = 5.94 W/kg



0 dB = 5.94 W/kg

System Performance Check Data (2600MHz Head)

Date: 2020.01.05
Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.988 S/m; ε_r = 37.859; ρ = 1000 kg/m^3
Phantom section: Flat Section

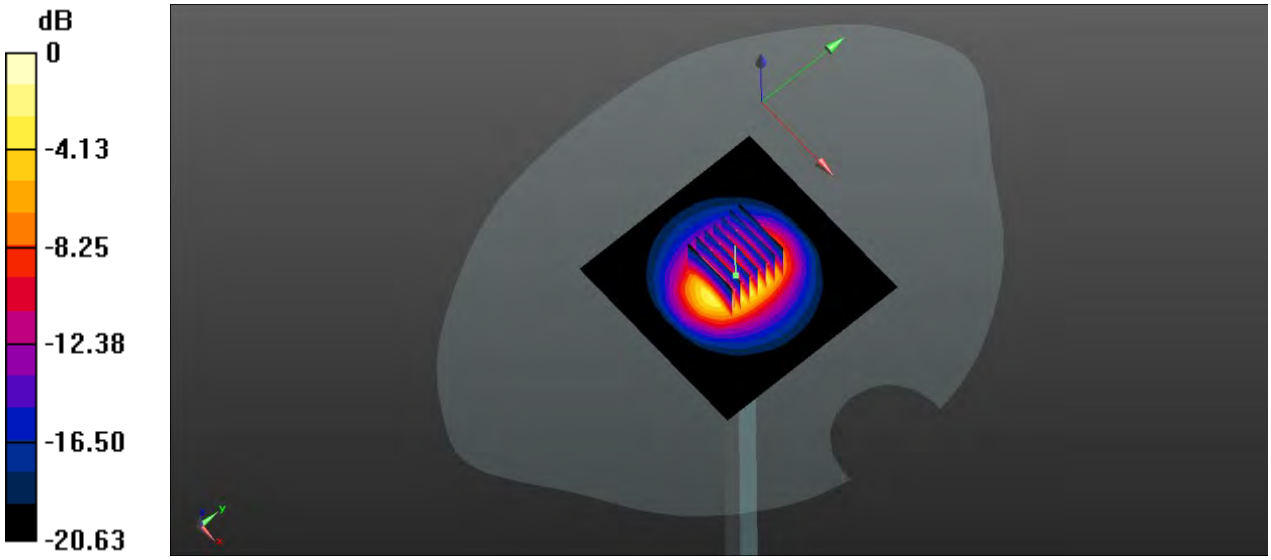
Ambient Temperature:22.3 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 5.81 W/kg

CW 2600 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.79 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 11.1 W/kg
SAR(1 g) = 5.19 W/kg; SAR(10 g) = 2.31 W/kg
Maximum value of SAR (measured) = 5.75 W/kg



0 dB = 5.75 W/kg

System Performance Check Data (5250MHz Head)

Date: 2020.01.12
Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.724 S/m; ε_r = 36.197; ρ = 1000 kg/m^3
Phantom section: Flat Section

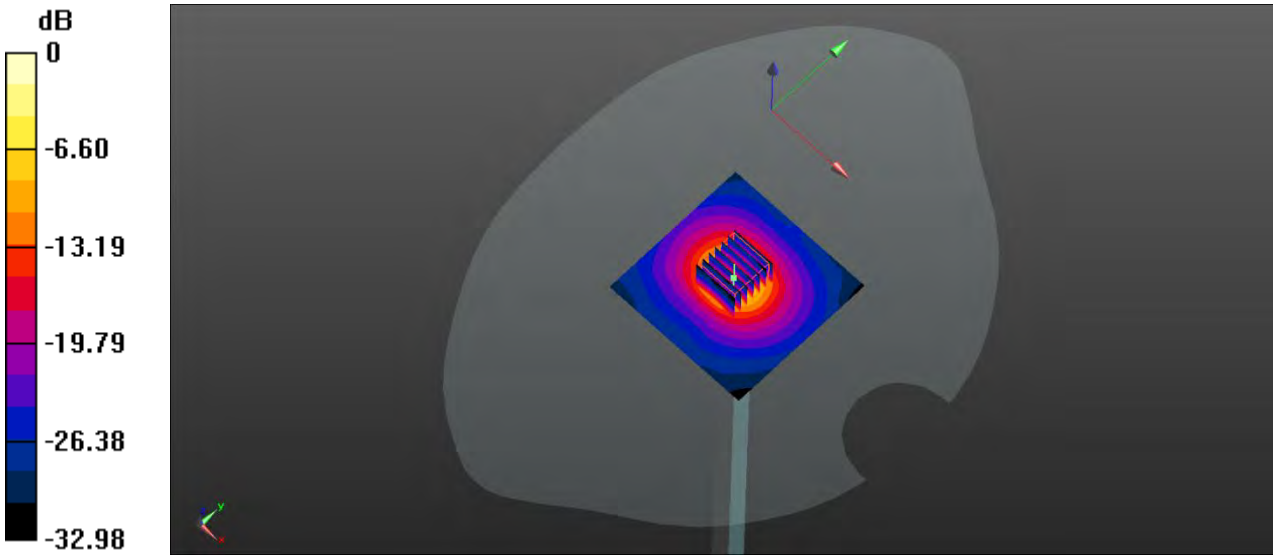
Ambient Temperature:22.6 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.51, 5.51, 5.51); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5250 100mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 7.78 W/kg

CW 5250 100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 37.87 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 43.8 W/kg
SAR(1 g) = 8.16 W/kg; SAR(10 g) = 2.26 W/kg
Maximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg

System Performance Check Data (5250MHz Head)

Date: 2020.01.13
Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.782 S/m; ε_r = 35.54; ρ = 1000 kg/m^3
Phantom section: Flat Section

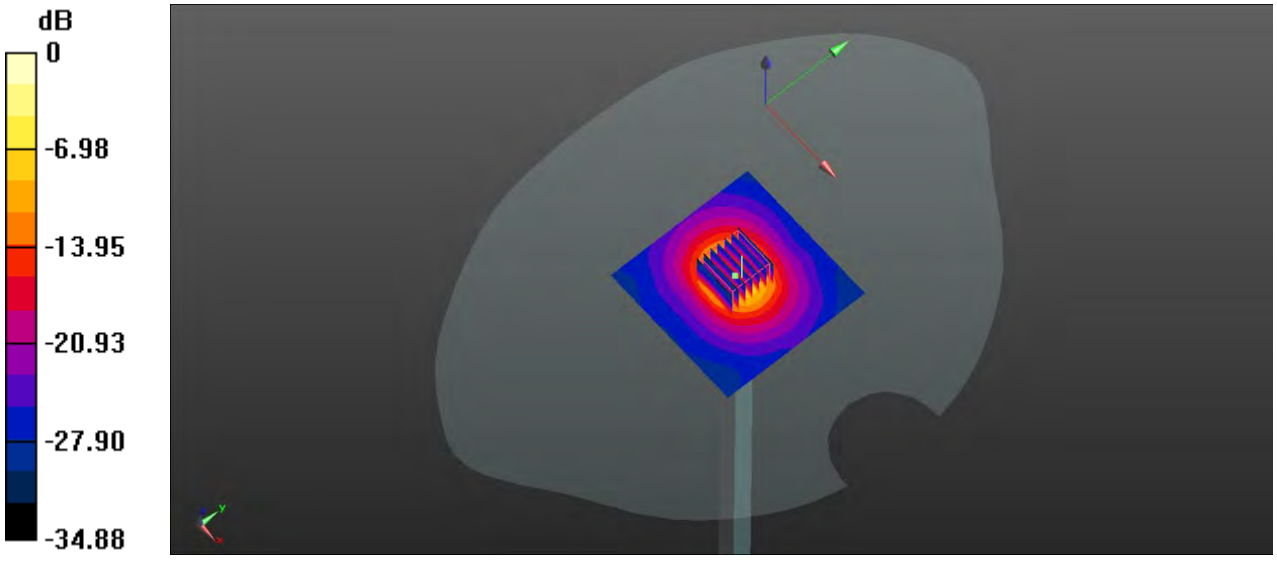
Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.51, 5.51, 5.51); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5250 100mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 7.38 W/kg

CW 5250 100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 37.46 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 41.7 W/kg
SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.16 W/kg
Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 14.8 W/kg

System Performance Check Data (5600MHz Head)

Date: 2020.01.14
Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 4.902 S/m; ε_r = 34.925; ρ = 1000 kg/m^3
Phantom section: Flat Section

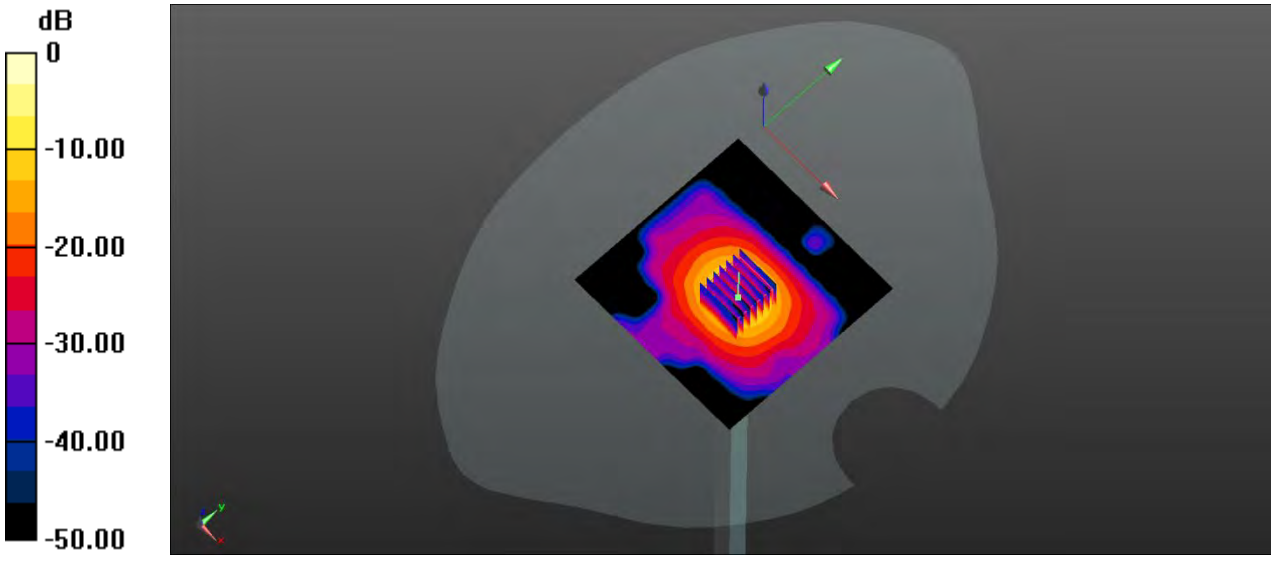
Ambient Temperature:22.2 Liquid Temperature:20.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.8, 4.8, 4.8); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.35 W/kg

CW 5600 100mW/Zoom Scan (7x7x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 34.66 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 38.5 W/kg
SAR(1 g) = 8.19 W/kg; SAR(10 g) = 2.29 W/kg
Maximum value of SAR (measured) = 21.5 W/kg



0 dB = 21.5 W/kg

System Performance Check Data (5750MHz Head)

Date: 2020.01.15
Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; σ = 5.306 S/m; ε_r = 34.427; ρ = 1000 kg/m^3
Phantom section: Flat Section

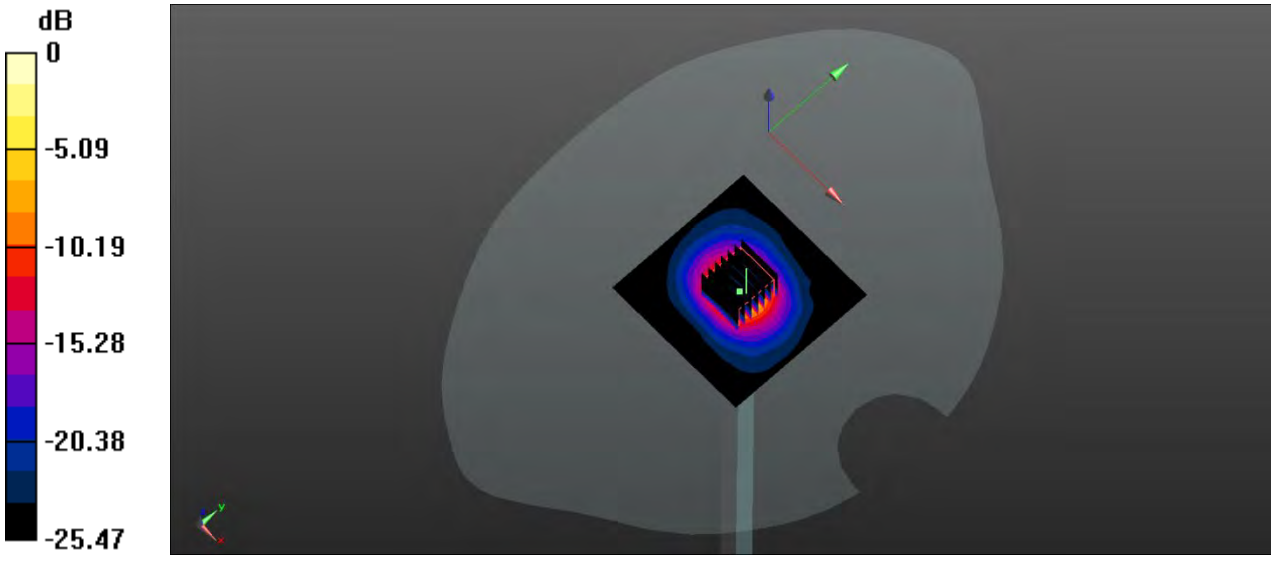
Ambient Temperature:22.1 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.06, 5.06, 5.06); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5750 100mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.52 W/kg

CW 5750 100mW/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 40.88 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 39.4 W/kg
SAR(1 g) = 8.13 W/kg; SAR(10 g) = 2.25 W/kg
Maximum value of SAR (measured) = 16.1 W/kg



0 dB = 16.1 W/kg

ANNEX C TEST DATA

MEAS.1 Right Head with Cheek on Low Channel in GPRS850 2Slots mode with Up Antenna
Date: 2019.12.27
Communication System Band: GPRS 850; Frequency: 824.2 MHz;Duty Cycle: 1:4.15
Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.914 S/m; ε_r = 40.685; ρ = 1000 kg/m^3
Phantom section: Right Section

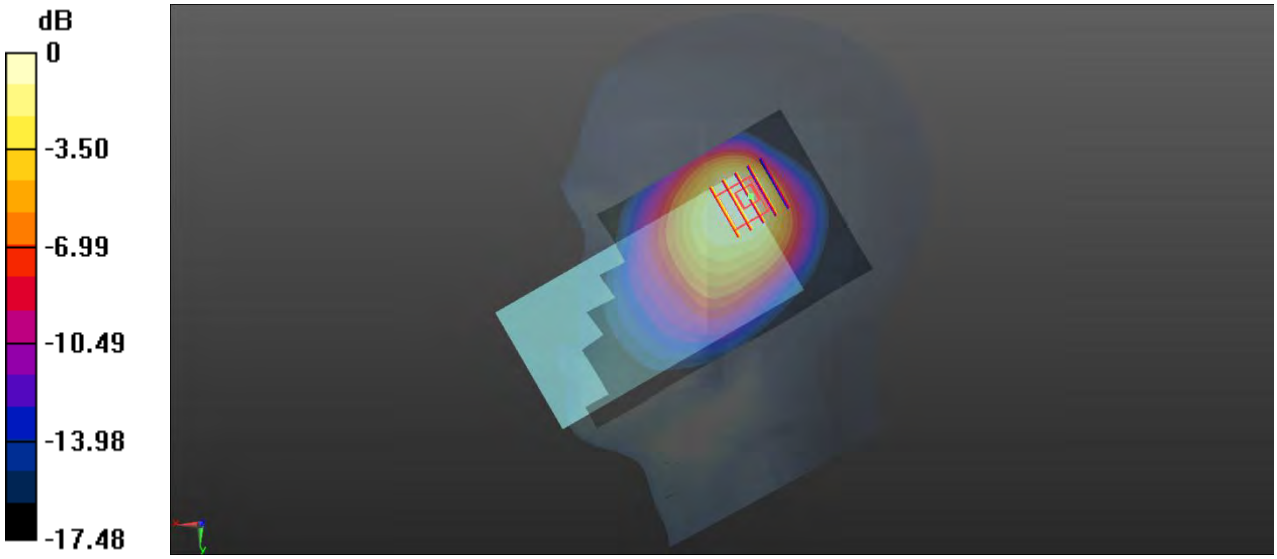
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch128/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.213 W/kg

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.49 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.381 W/kg
SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.122 W/kg
Maximum value of SAR (measured) = 0.212 W/kg



0 dB = 0.212 W/kg

MEAS.2 Body Plane with Back Side 15mm on Low Channel in GPRS850 2Slots mode with Down Antenna
Date: 2019.12.27
Communication System Band: GPRS 850; Frequency: 824.2 MHz;Duty Cycle: 1:4.15
Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.914 S/m; ε_r = 40.685; ρ = 1000 kg/m^3
Phantom section: Flat Section

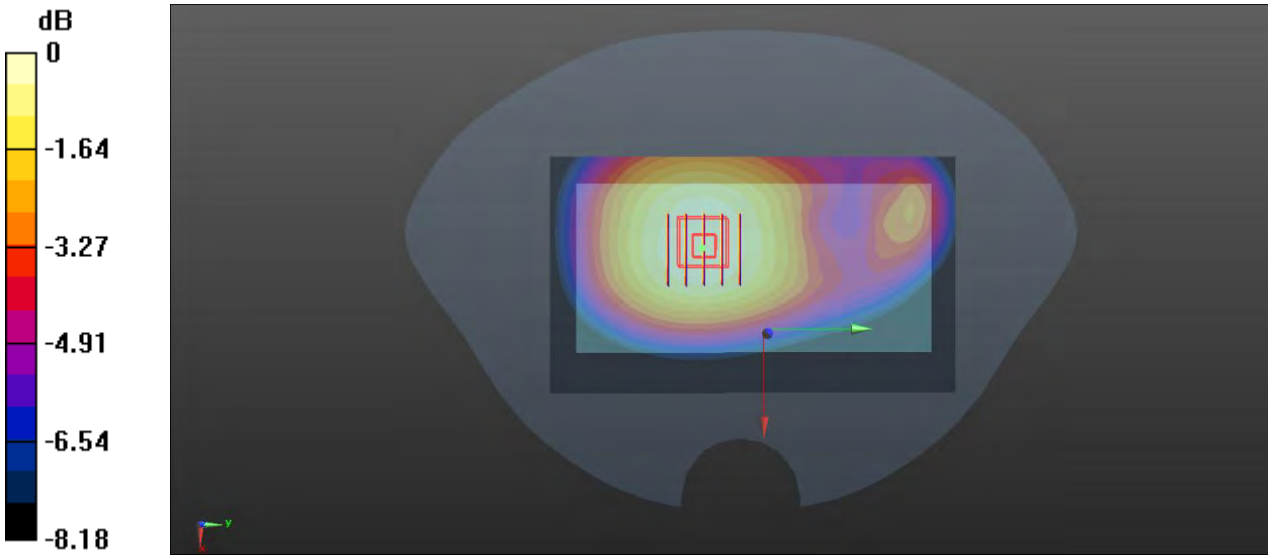
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch128/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.276 W/kg

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.69 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.331 W/kg
SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.200 W/kg
Maximum value of SAR (measured) = 0.275 W/kg



0 dB = 0.275 W/kg

MEAS.3 Body Plane with Back Side 10mm on Low Channel in GPRS850 2Slots mode with Down Antenna
Date: 2019.12.25
Communication System Band: GPRS 850; Frequency: 824.2 MHz;Duty Cycle: 1:4.15
Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.914 S/m; ε_r = 40.685; ρ = 1000 kg/m^3
Phantom section: Flat Section

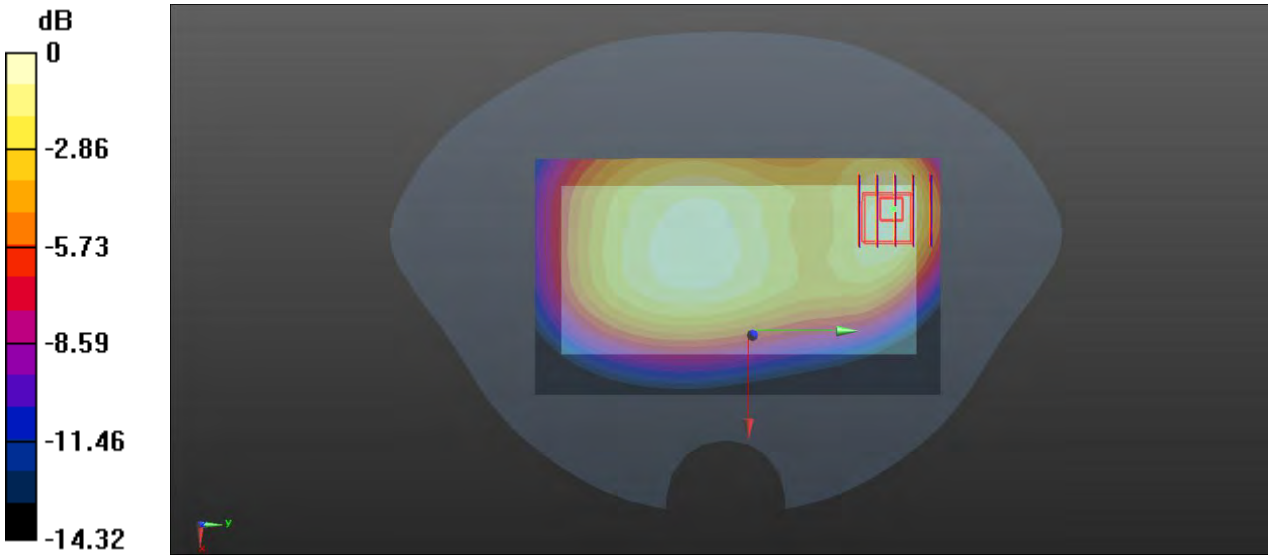
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch128/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.322 W/kg

Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.02 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.526 W/kg
SAR(1 g) = 0.303 W/kg; SAR(10 g) = 0.182 W/kg
Maximum value of SAR (measured) = 0.332 W/kg



0 dB = 0.332 W/kg

MEAS.4 Right Head with Cheek on High Channel in GPRS1900 2Slots mode with Up Antenna
Date: 2020.01.02
Communication System Band: GPRS 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1909.8 MHz; σ = 1.439 S/m; ε_r = 40.482; ρ = 1000 kg/m^3
Phantom section: Right Section

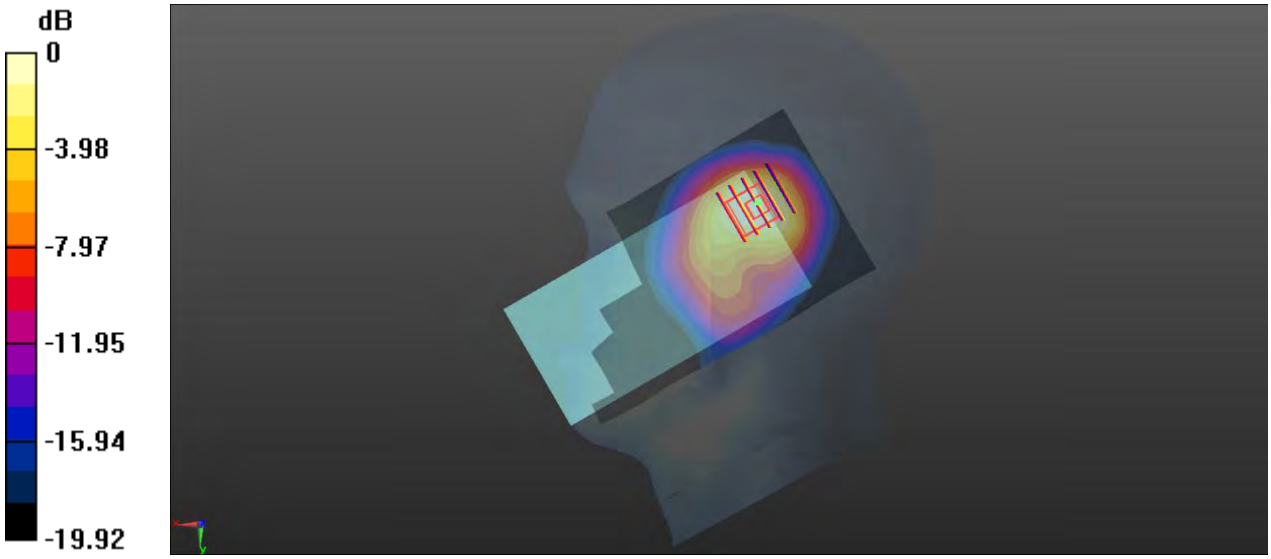
Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 810/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.556 W/kg

Ch 810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.59 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.887 W/kg
SAR(1 g) = 0.475 W/kg; SAR(10 g) = 0.266 W/kg
Maximum value of SAR (measured) = 0.506 W/kg



0 dB = 0.506 W/kg

MEAS.5 Body Plane with Back Side 15mm on Low Channel in GPRS1900 2Slots mode with Up Antenna
Date: 2020.01.02
Communication System Band: GPRS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1850.2 MHz; σ = 1.42 S/m; ε_r = 40.938; ρ = 1000 kg/m^3
Phantom section: Flat Section

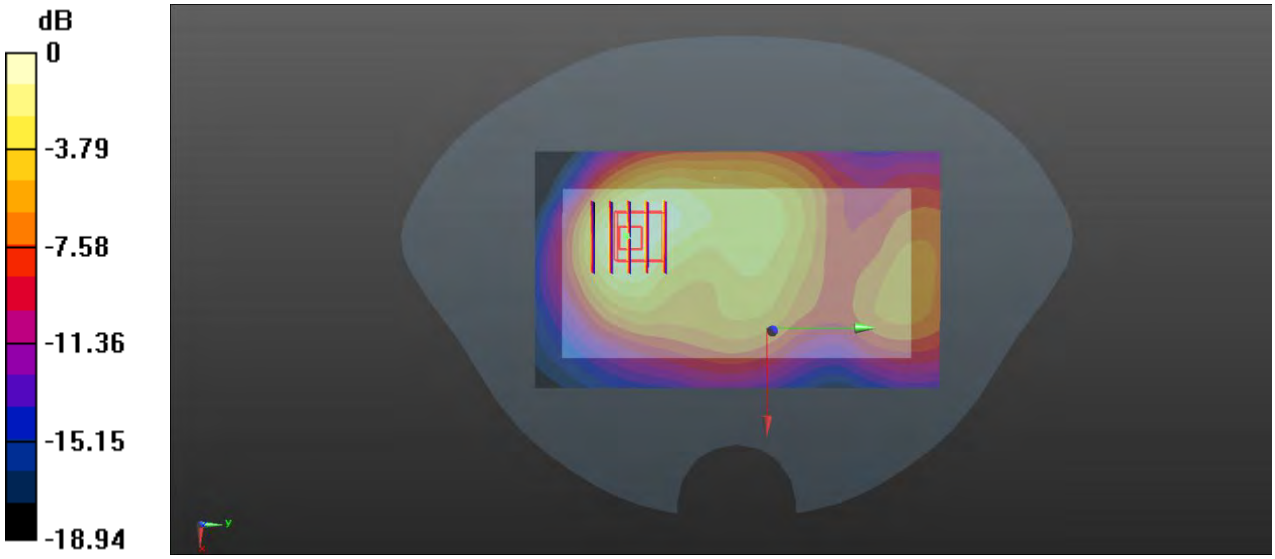
Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 512/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.127 W/kg

Ch 512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.221 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.215 W/kg
SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.066 W/kg
Maximum value of SAR (measured) = 0.127 W/kg



0 dB = 0.127 W/kg

MEAS.6 Body Plane with Back Side 10mm on Low Channel in GPRS1900 2Slots mode with Up Antenna
Date: 2020.01.02
Communication System Band: GPRS 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:4.15
Medium parameters used: f = 1850.2 MHz; σ = 1.42 S/m; ε_r = 40.938; ρ = 1000 kg/m^3
Phantom section: Flat Section

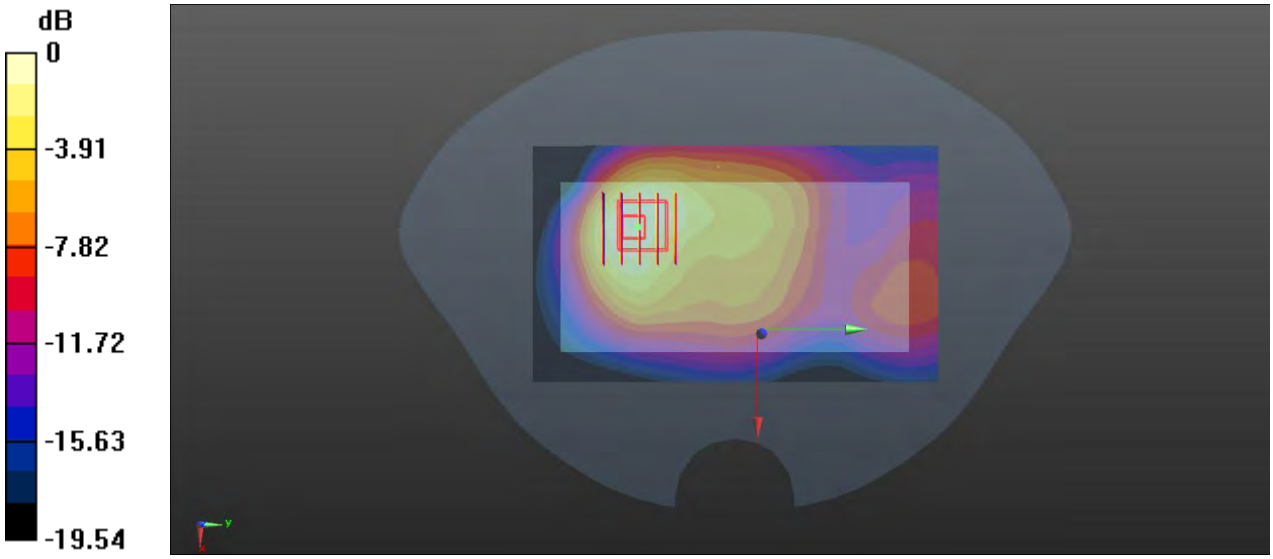
Ambient Temperature:22.5 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 512/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.369 W/kg

Ch 512/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.392 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.639 W/kg
SAR(1 g) = 0.326 W/kg; SAR(10 g) = 0.182 W/kg
Maximum value of SAR (measured) = 0.353 W/kg



0 dB = 0.353 W/kg

MEAS.7 Right Head with Cheek on High Channel in WCDMA Band 2 mode with Up Antenna
Date: 2020.01.03
Communication System Band: Ⅱ; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.408 S/m; ε_r = 40.805; ρ = 1000 kg/m^3
Phantom section: Right Section

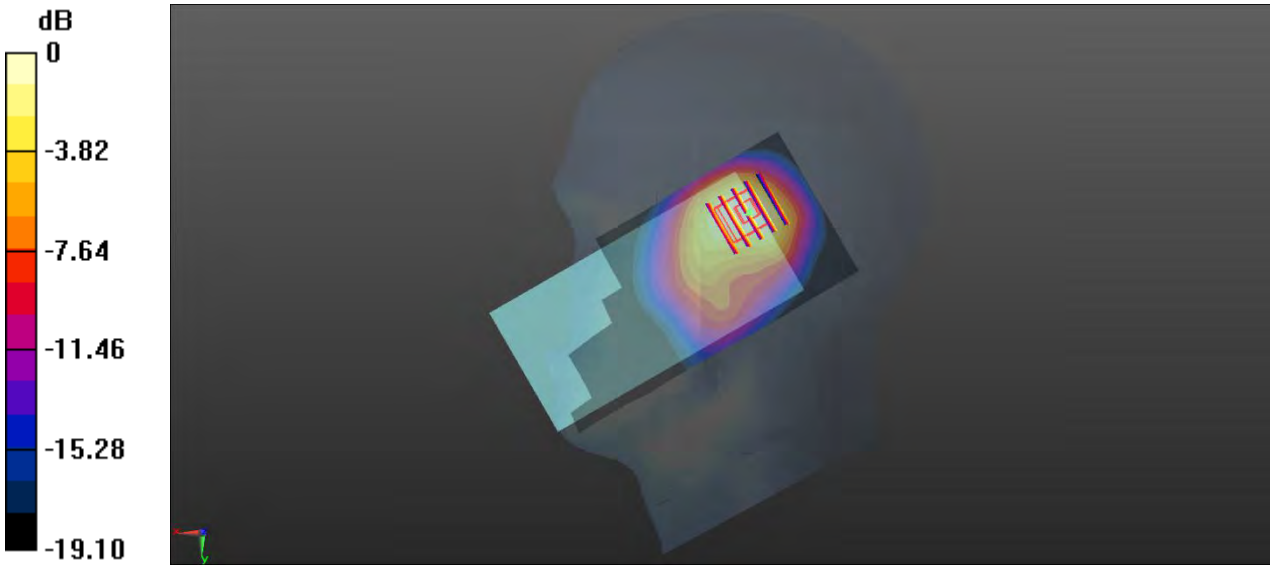
Ambient Temperature:22.1 Liquid Temperature:20.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 9538/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.645 W/kg

Ch 9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.55 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.926 W/kg
SAR(1 g) = 0.528 W/kg; SAR(10 g) = 0.303 W/kg
Maximum value of SAR (measured) = 0.571 W/kg



0 dB = 0.571 W/kg

MEAS.8 Body Plane with Back Side 15mm on High Channel in WCDMA Band 2 mode with Up Antenna
Date: 2020.01.03
Communication System Band: Ⅱ; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.408 S/m; ε_r = 40.805; ρ = 1000 kg/m^3
Phantom section: Flat Section

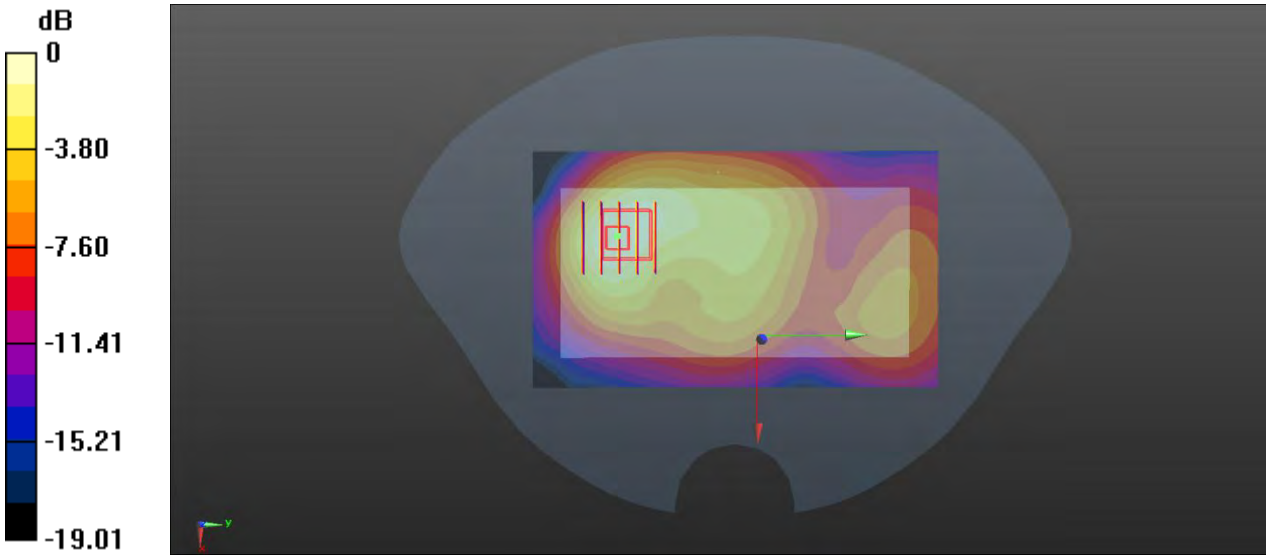
Ambient Temperature:22.1 Liquid Temperature:20.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 9538/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.138 W/kg

Ch 9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.182 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.204 W/kg
SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.070 W/kg
Maximum value of SAR (measured) = 0.132 W/kg



0 dB = 0.132 W/kg

MEAS.9 Body Plane with Back Side 10mm on High Channel in WCDMA Band 2 mode with Up Antenna
Date: 2020.01.03
Communication System Band: Ⅱ; Frequency: 1907.6 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1907.6 MHz; σ = 1.408 S/m; ε_r = 40.805; ρ = 1000 kg/m^3
Phantom section: Flat Section

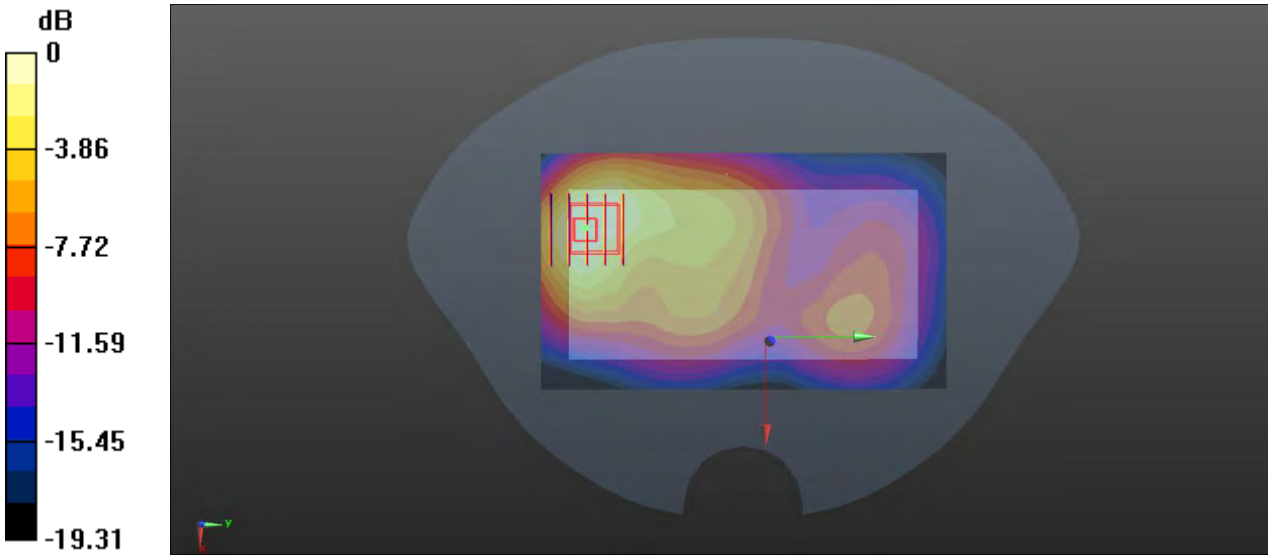
Ambient Temperature:22.1 Liquid Temperature:20.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 9538/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.346 W/kg

Ch 9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.816 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.567 W/kg
SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.166 W/kg
Maximum value of SAR (measured) = 0.325 W/kg



0 dB = 0.325 W/kg

MEAS.10 Right Head with Cheek on Low Channel in WCDMA Band 4 mode with Up Antenna
Date: 2019.12.30
Communication System Band: Ⅳ; Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.318 S/m; ε_r = 39.64; ρ = 1000 kg/m^3
Phantom section: Right Section

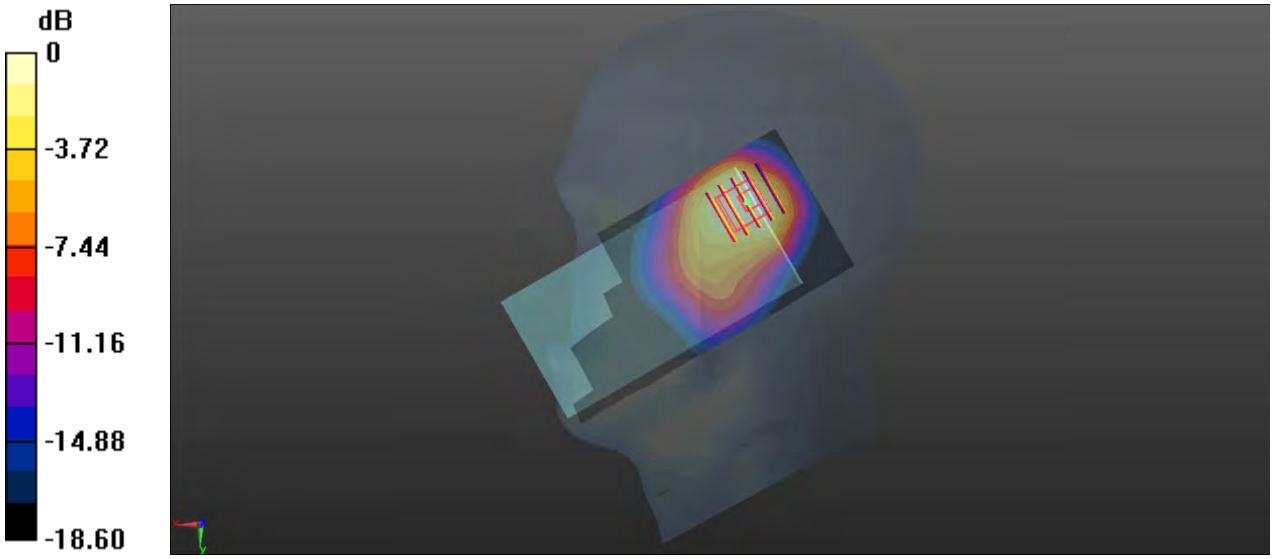
Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 1312/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.385 W/kg

Ch 1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.57 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.587 W/kg
SAR(1 g) = 0.288 W/kg; SAR(10 g) = 0.179 W/kg
Maximum value of SAR (measured) = 0.331 W/kg



0 dB = 0.331 W/kg

MEAS.11 Body Plane with Back Side 15mm on Low Channel in WCDMA Band 4 mode with Down Antenna

Date: 2019.12.30

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

Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.318 S/m; ε_r = 39.64; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 1312/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.107 W/kg

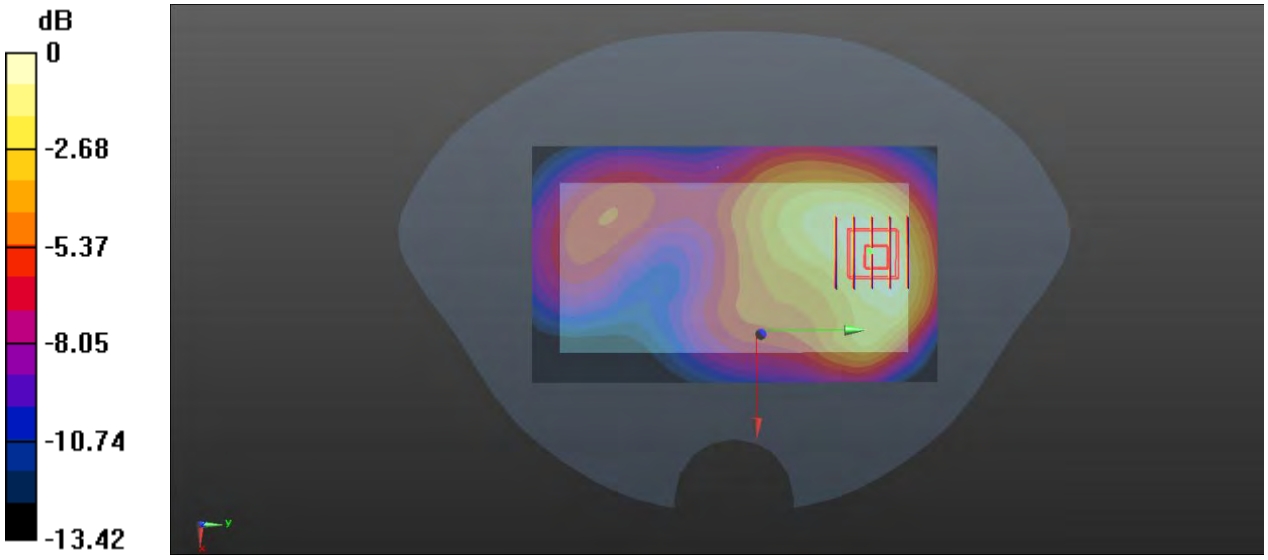
Ch 1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.470 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.149 W/kg

SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.065 W/kg

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



0 dB = 0.108 W/kg

MEAS.12 Body Plane with Bottom Side 10mm on Low Channel in WCDMA Band 4 mode with Down Antenna

Date: 2019.12.30

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

Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.318 S/m; ε_r = 39.64; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 1312/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

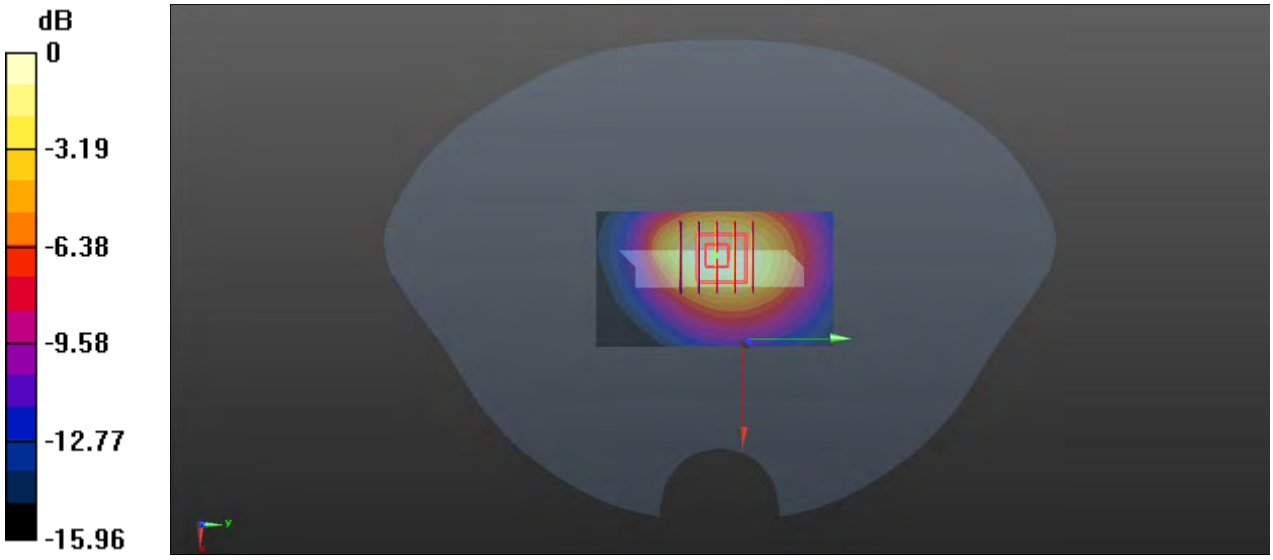
Ch 1312/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.45 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.407 W/kg

SAR(1 g) = 0.257 W/kg; SAR(10 g) = 0.153 W/kg

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



0 dB = 0.281 W/kg

MEAS.13 Right Head with Cheek on Low Channel in WCDMA Band 5 mode with Up Antenna
Date: 2019.12.28
Communication System Band: V; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.891 S/m; ε_r = 41.092; ρ = 1000 kg/m^3
Phantom section: Right Section

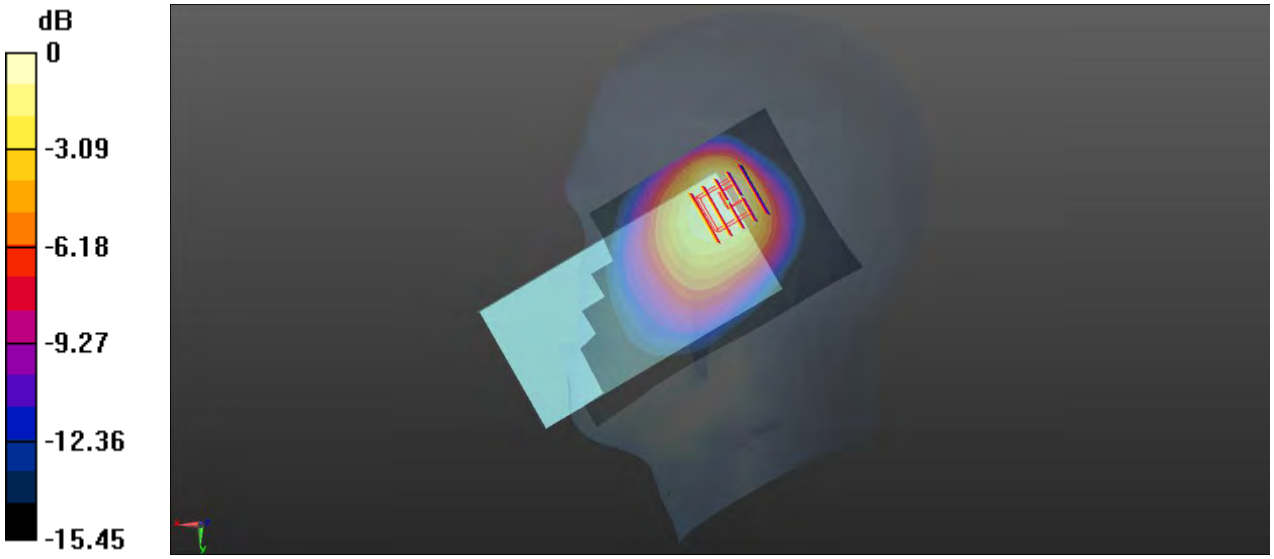
Ambient Temperature:22.2 Liquid Temperature:20.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4132/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.214 W/kg

Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.42 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.387 W/kg
SAR(1 g) = 0.202 W/kg; SAR(10 g) = 0.125 W/kg
Maximum value of SAR (measured) = 0.213 W/kg



0 dB = 0.213 W/kg

MEAS.14 Body Plane with Back Side 15mm on Low Channel in WCDMA Band 5 mode with Down Antenna

Date: 2019.12.28

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

Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.891 S/m; ε_r = 41.092; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:20.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4132/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.207 W/kg

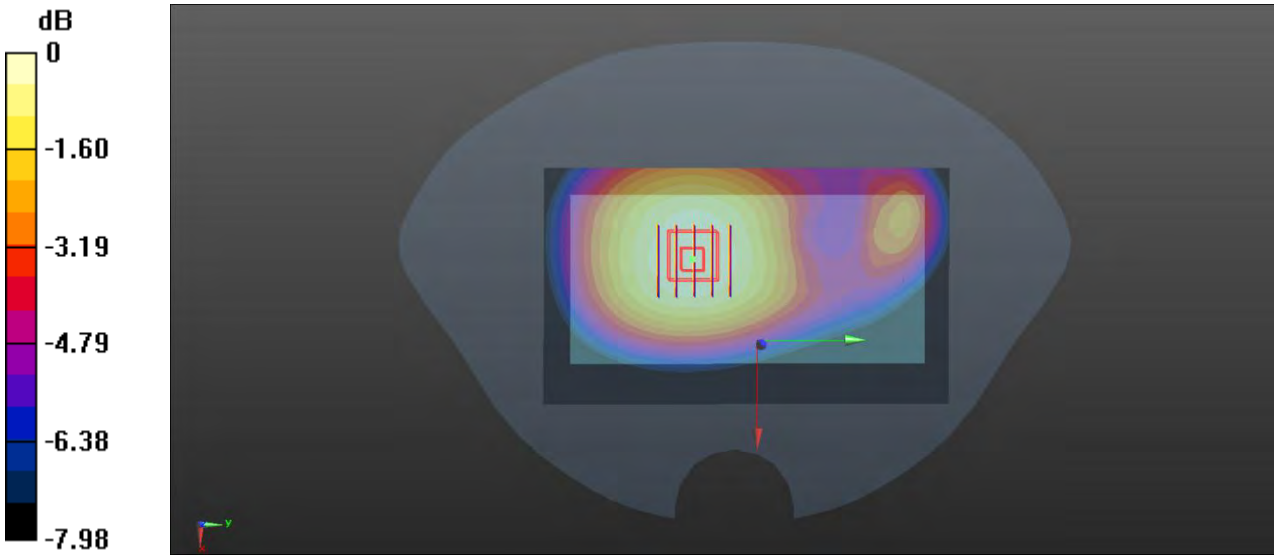
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.38 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.246 W/kg

SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.150 W/kg

Maximum value of SAR (measured) = 0.206 W/kg



0 dB = 0.206 W/kg

MEAS.15 Body Plane with Back Side 10mm on Low Channel in WCDMA Band 5 mode with Down Antenna

Date: 2019.12.28

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

Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.891 S/m; ε_r = 41.092; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:20.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4132/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.287 W/kg

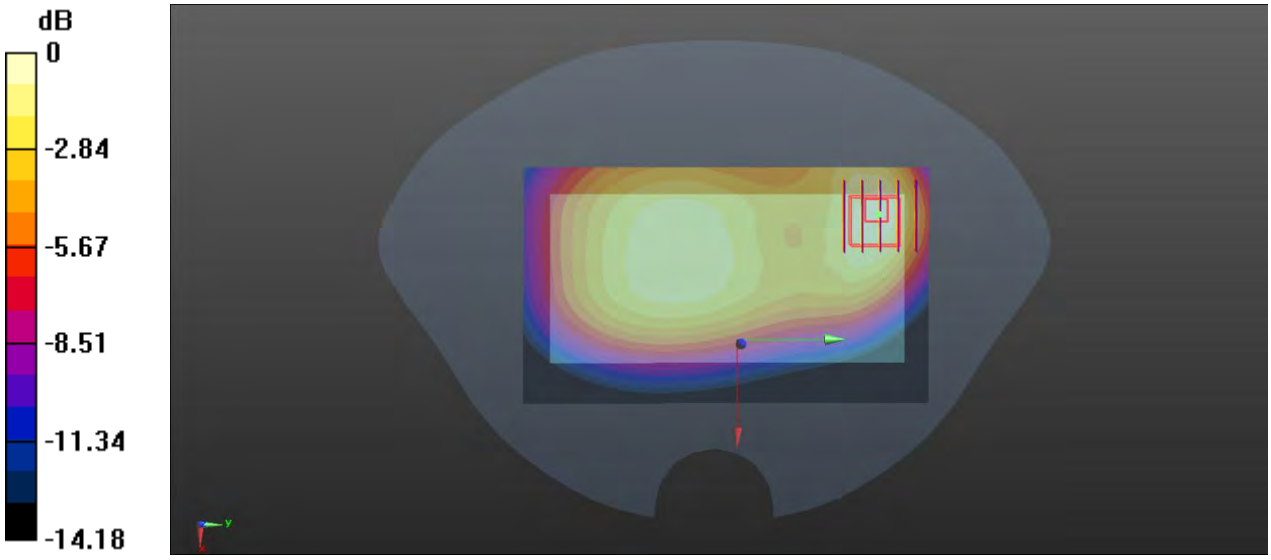
Ch4132/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.58 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.483 W/kg

SAR(1 g) = 0.273 W/kg; SAR(10 g) = 0.162 W/kg

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



0 dB = 0.300 W/kg

MEAS.16 Right Head with Cheek on Middle Channel in LTE Band 2 mode with Up Antenna
Date: 2020.01.04
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; σ = 1.372 S/m; ε_r = 39.524; ρ = 1000 kg/m^3
Phantom section: Right Section

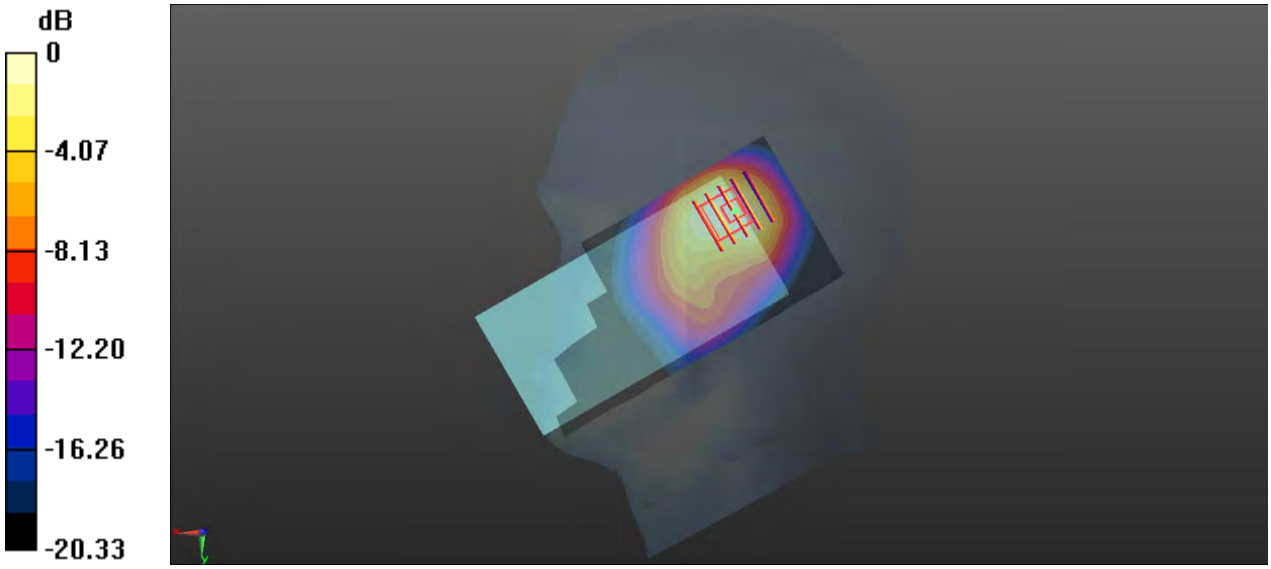
Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 18900/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.602 W/kg

Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.45 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.925 W/kg
SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.285 W/kg
Maximum value of SAR (measured) = 0.548 W/kg



0 dB = 0.548 W/kg

MEAS.17 Body Plane with Back Side 15mm on Middle Channel in LTE Band 2 mode with Up Antenna
Date: 2020.01.04
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; σ = 1.372 S/m; ε_r = 39.524; ρ = 1000 kg/m^3
Phantom section: Flat Section

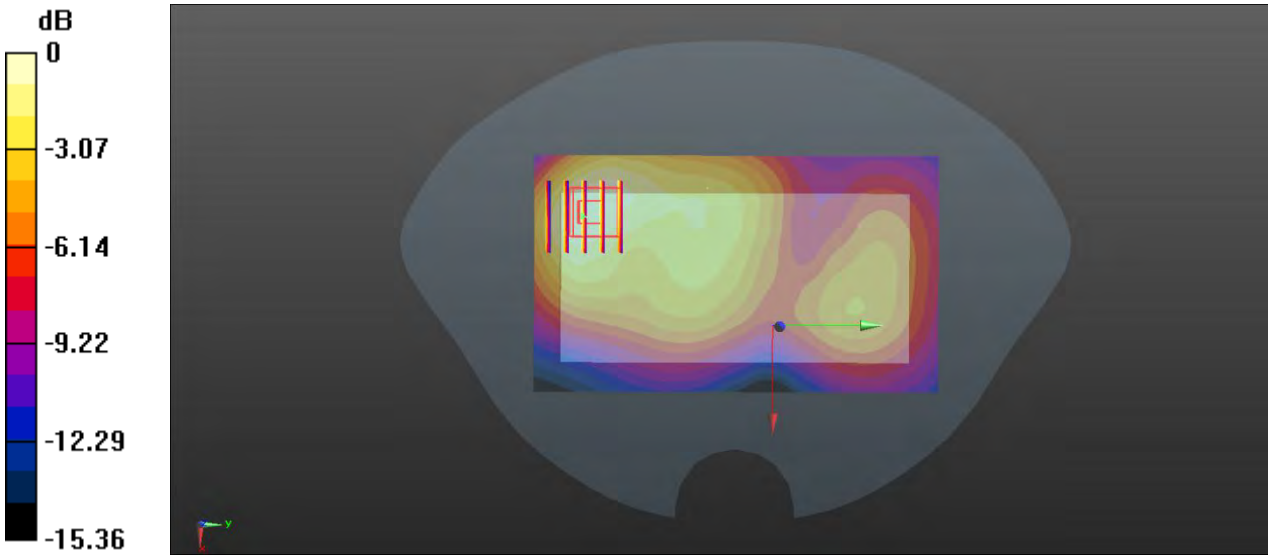
Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 18900/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.141 W/kg

Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.167 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.207 W/kg
SAR(1 g) = 0.139 W/kg; SAR(10 g) = 0.081 W/kg
Maximum value of SAR (measured) = 0.141 W/kg



0 dB = 0.141 W/kg

MEAS.18 Body Plane with Back Side 10mm on Middle Channel in LTE Band 2 mode with Up Antenna
Date: 2020.01.04
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; σ = 1.372 S/m; ε_r = 39.524; ρ = 1000 kg/m^3
Phantom section: Flat Section

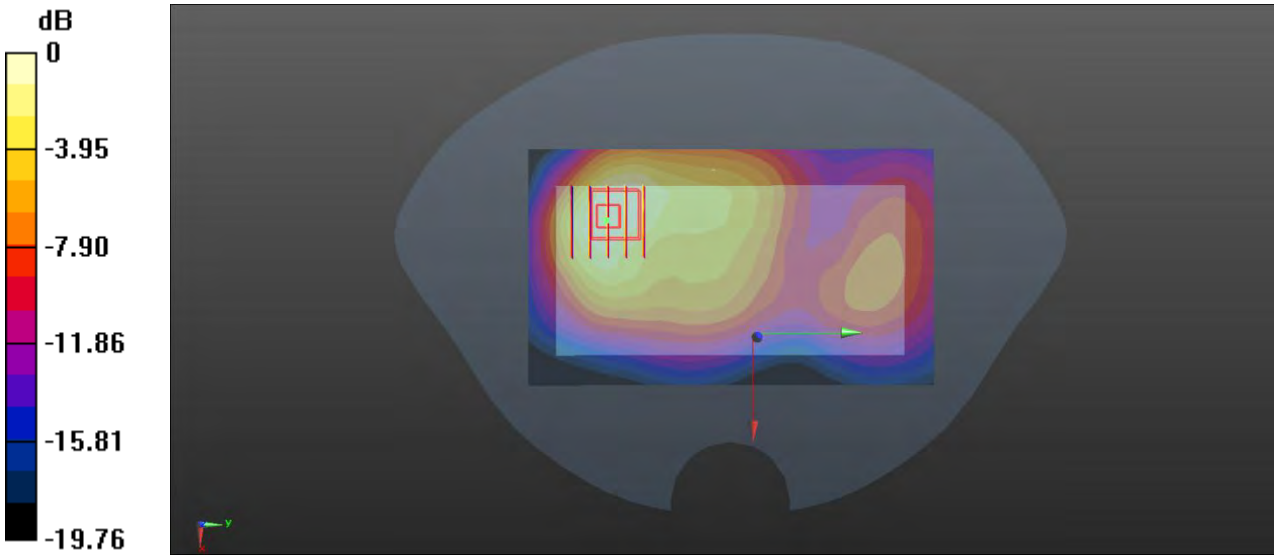
Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 18900/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.298 W/kg

Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.202 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.468 W/kg
SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.140 W/kg
Maximum value of SAR (measured) = 0.270 W/kg



0 dB = 0.270 W/kg

MEAS.19 Right Head with Cheek on Middle Channel in LTE Band 4 mode with Up Antenna
Date: 2019.12.31
Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.38 S/m; ε_r = 39.882; ρ = 1000 kg/m^3
Phantom section: Right Section

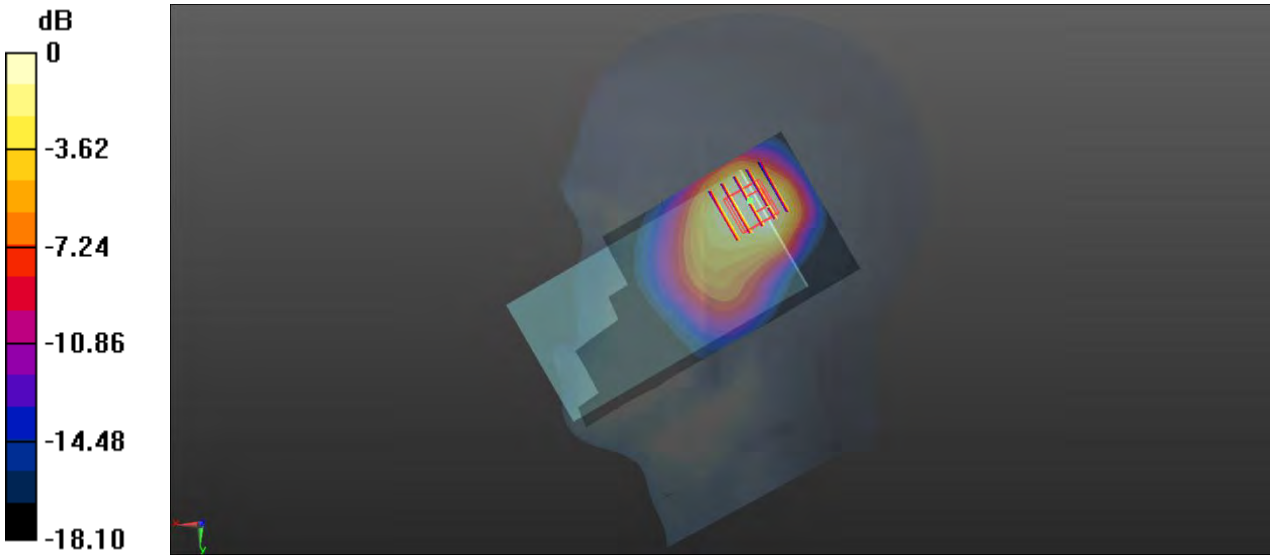
Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 20175/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.275 W/kg

Ch 20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.97 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.421 W/kg
SAR(1 g) = 0.246 W/kg; SAR(10 g) = 0.135 W/kg
Maximum value of SAR (measured) = 0.238 W/kg



0 dB = 0.238 W/kg

MEAS.20 Body Plane with Back Side 15mm on Middle Channel in LTE Band 4 mode with Up Antenna
Date: 2019.12.31
Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.38 S/m; ε_r = 39.882; ρ = 1000 kg/m^3
Phantom section: Flat Section

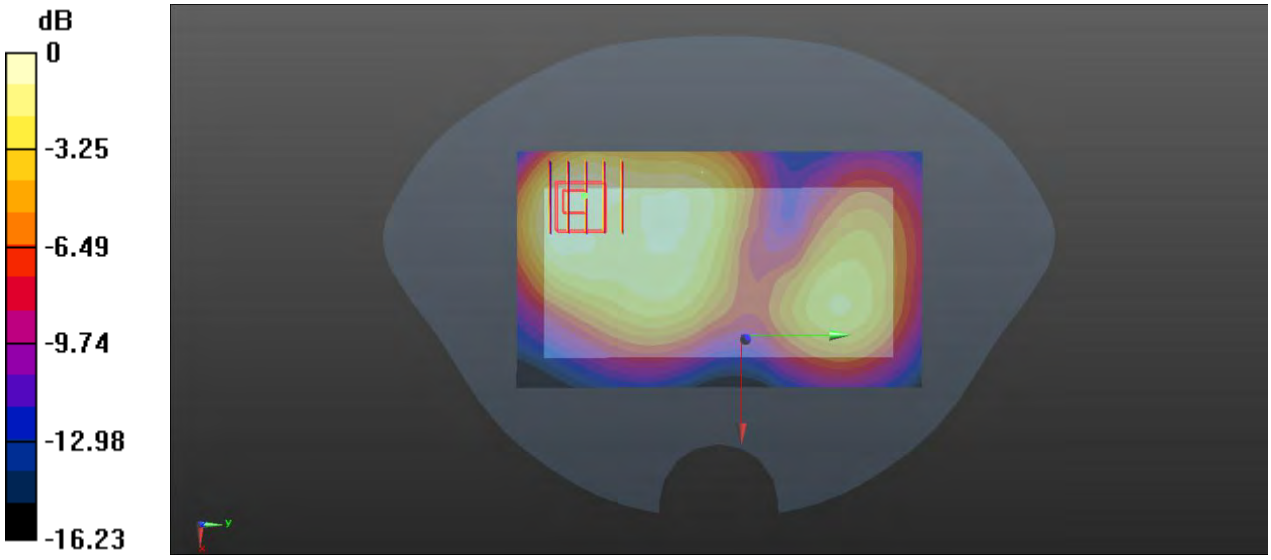
Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 20175/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.145 W/kg

Ch 20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.271 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.229 W/kg
SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.080 W/kg
Maximum value of SAR (measured) = 0.141 W/kg



0 dB = 0.141 W/kg

MEAS.21 Body Plane with Bottom Edge 10mm on Middle Channel in LTE Band 4 mode with Down Antenna

Date: 2019.12.31

Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.38 S/m; ε_r = 39.882; ρ = 1000 kg/m^3

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 20175/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.283 W/kg

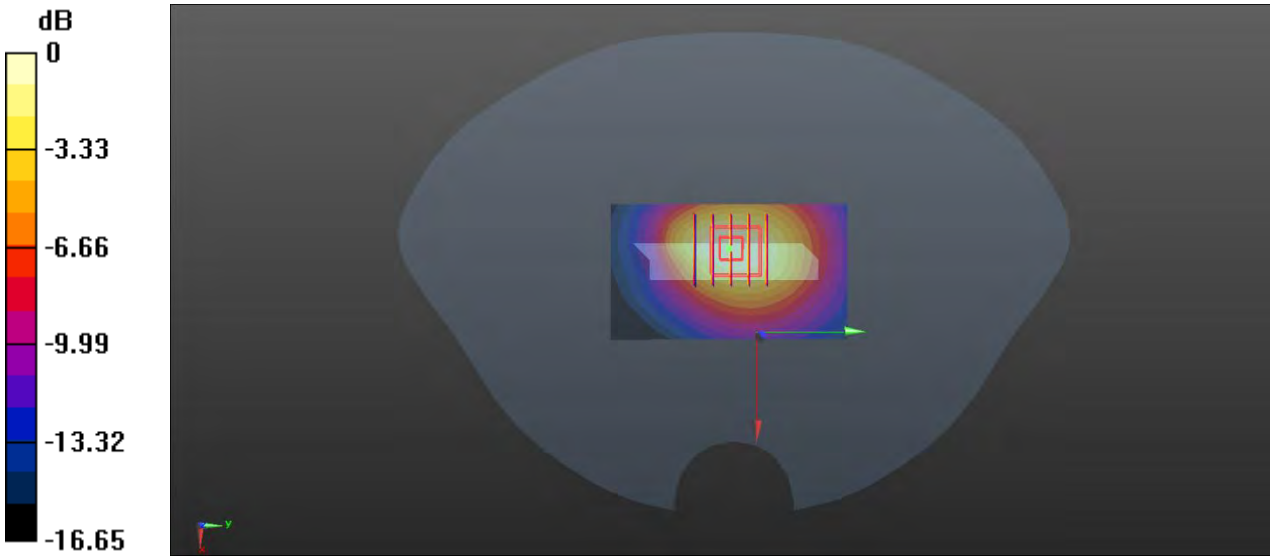
Ch 20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.01 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.388 W/kg

SAR(1 g) = 0.243 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 0.266 W/kg



0 dB = 0.266 W/kg

MEAS.22 Right Head with Cheek on Middle Channel in LTE Band 5 mode with Up Antenna
Date: 2019.12.29
Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.89 S/m; ε_r = 41.84; ρ = 1000 kg/m^3
Phantom section: Right Section

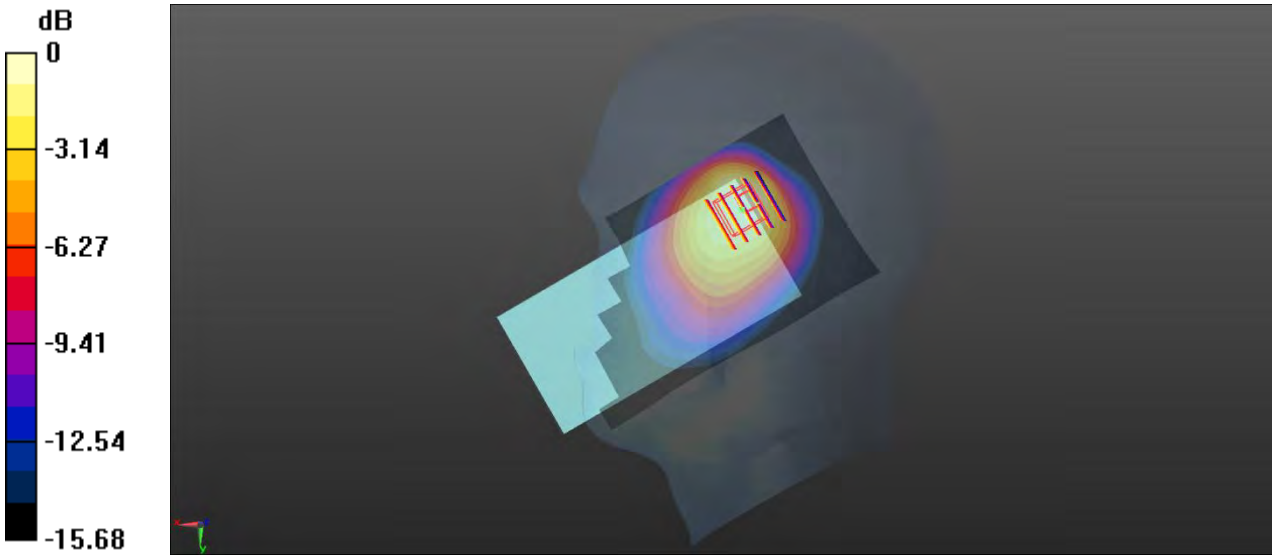
Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20525/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.242 W/kg

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.53 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.433 W/kg
SAR(1 g) = 0.228 W/kg; SAR(10 g) = 0.140 W/kg
Maximum value of SAR (measured) = 0.243 W/kg



0 dB = 0.243 W/kg

MEAS.23 Body Plane with Back Side 15mm on Middle Channel in LTE Band 5 mode with Down Antenna
Date: 2019.12.29
Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.89 S/m; ε_r = 41.84; ρ = 1000 kg/m^3
Phantom section: Flat Section

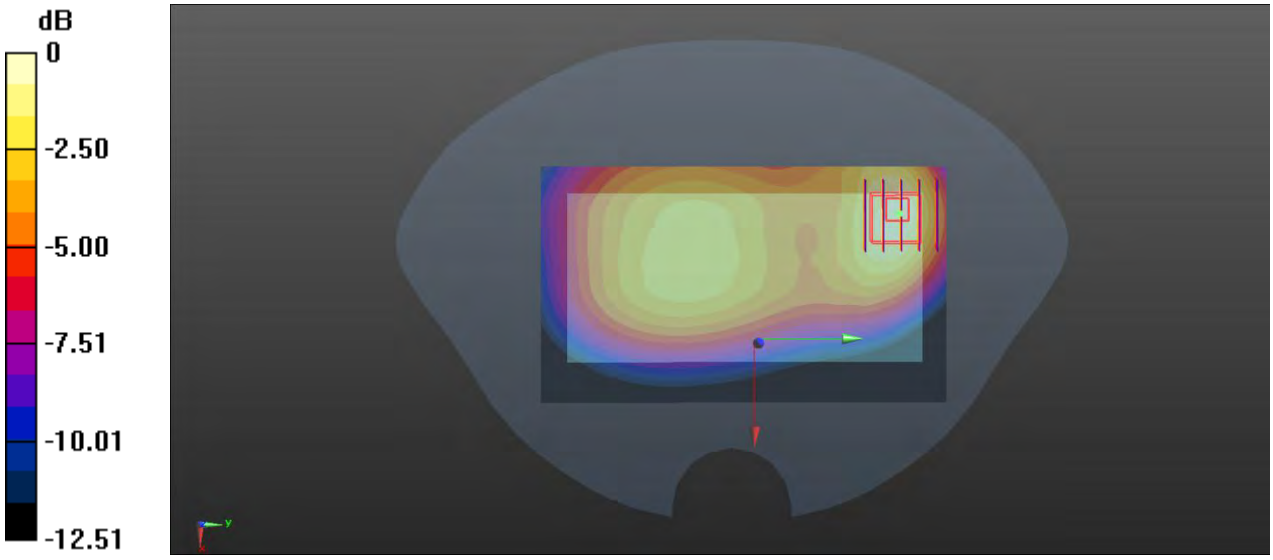
Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20525/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.271 W/kg

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.77 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.417 W/kg
SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.148 W/kg
Maximum value of SAR (measured) = 0.281 W/kg



0 dB = 0.281 W/kg

MEAS.24 Body Plane with Back Side 10mm on Middle Channel in LTE Band 5 mode with Down Antenna
Date: 2019.12.29
Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.89 S/m; ε_r = 41.84; ρ = 1000 kg/m^3
Phantom section: Flat Section

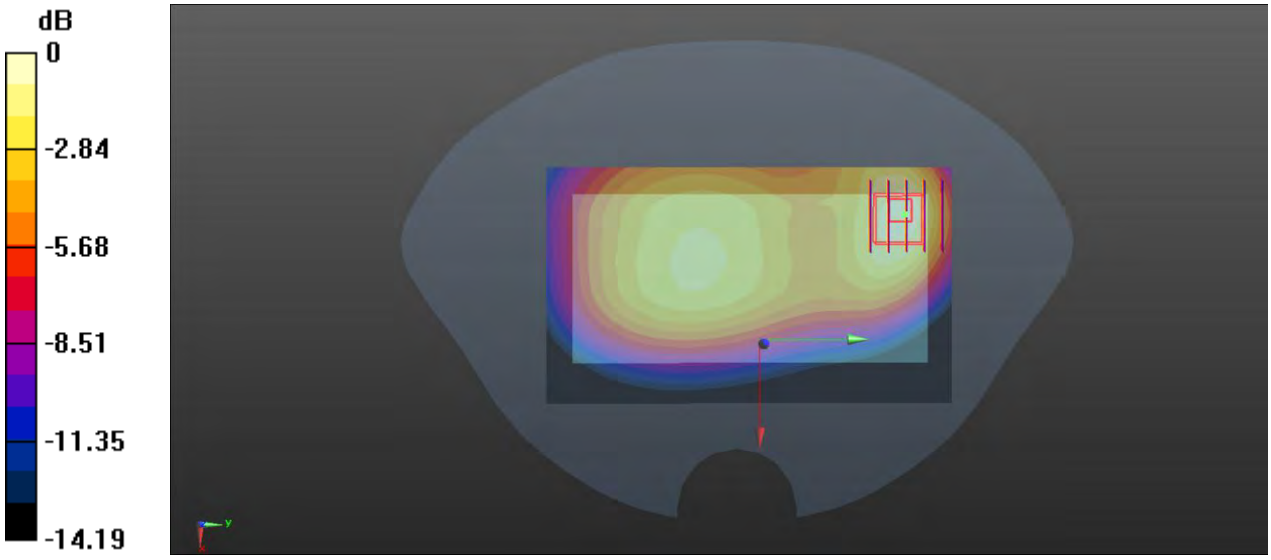
Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20525/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.327 W/kg

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.11 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.555 W/kg
SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.184 W/kg
Maximum value of SAR (measured) = 0.340 W/kg



0 dB = 0.340 W/kg

MEAS.25 Right Head with Tilt on Low Channel in LTE Band 7 mode with Up Antenna
Date: 2020.01.10
Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2510 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2510 MHz; σ = 1.895 S/m; ε_r = 38.803; ρ = 1000 kg/m^3
Phantom section: Right Section

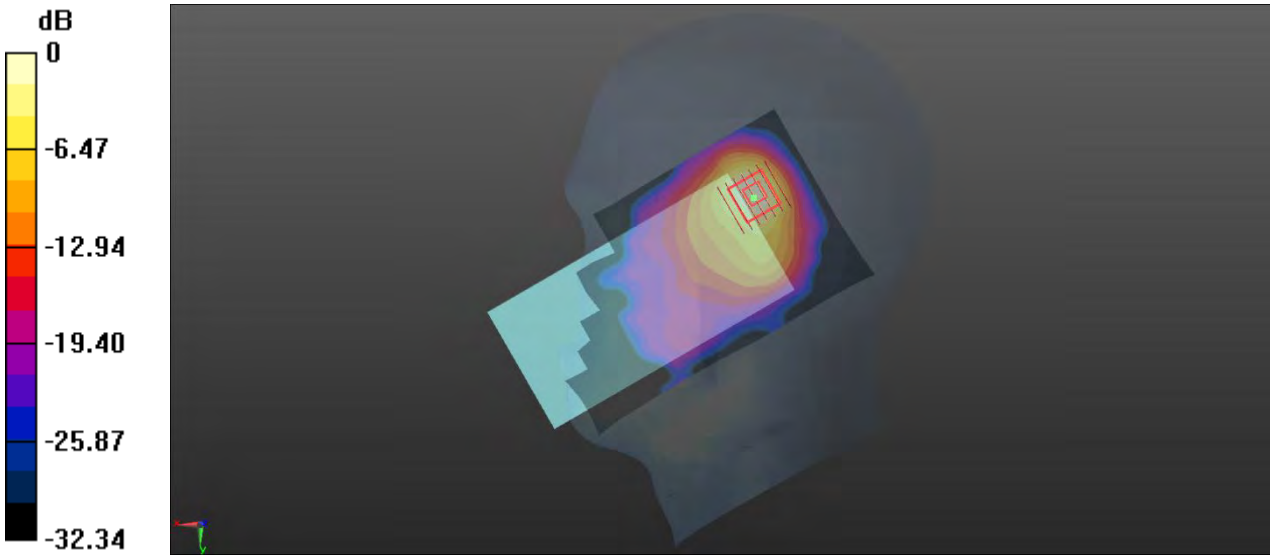
Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20850/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.02 W/kg

Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.57 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 2.45 W/kg
SAR(1 g) = 0.867 W/kg; SAR(10 g) = 0.359 W/kg
Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg

MEAS.26 Body Plane with Back Side 15mm on Low Channel in LTE Band 7 mode with Down Antenna
Date: 2020.01.09
Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2510 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2510 MHz; σ = 1.88 S/m; ε_r = 38.68; ρ = 1000 kg/m^3
Phantom section: Flat Section

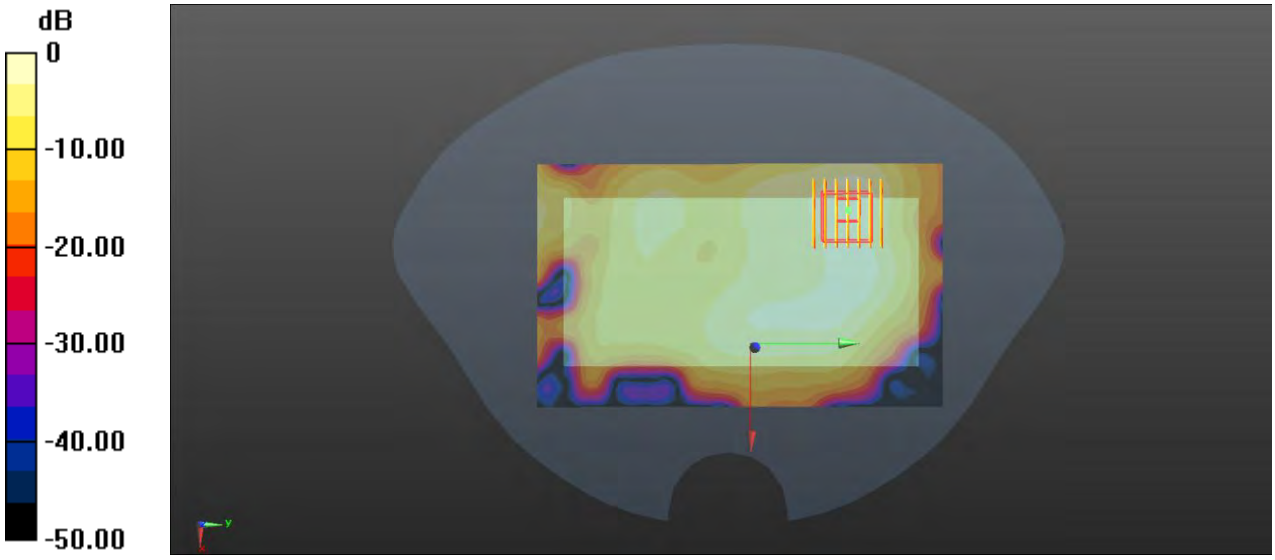
Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch20850/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.146 W/kg

Ch20850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.083 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.322 W/kg
SAR(1 g) = 0.140 W/kg; SAR(10 g) = 0.066 W/kg
Maximum value of SAR (measured) = 0.155 W/kg



0 dB = 0.155 W/kg

MEAS.27 Body Plane with Top Edge 10mm on High Channel in LTE Band 7 mode with Up Antenna
Date: 2020.01.09
Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2560 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2560 MHz; σ = 1.943 S/m; ε_r = 38.393; ρ = 1000 kg/m^3
Phantom section: Flat Section

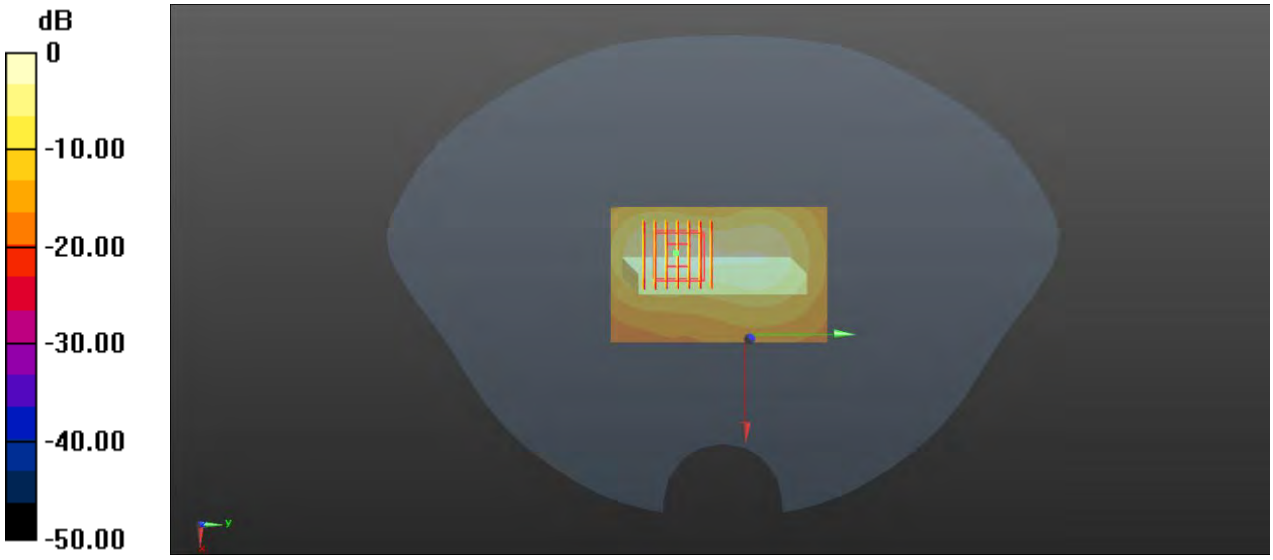
Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch21350/Area Scan (51x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.482 W/kg

Ch21350/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.040 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.167 W/kg
Maximum value of SAR (measured) = 0.479 W/kg



0 dB = 0.479 W/kg

MEAS.28 Body Plane with Back Side 0mm on High Channel in LTE Band 7 mode with Up Antenna
Date: 2020.01.10
Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2560 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2560 MHz; σ = 1.97 S/m; ε_r = 38.398; ρ = 1000 kg/m^3
Phantom section: Flat Section

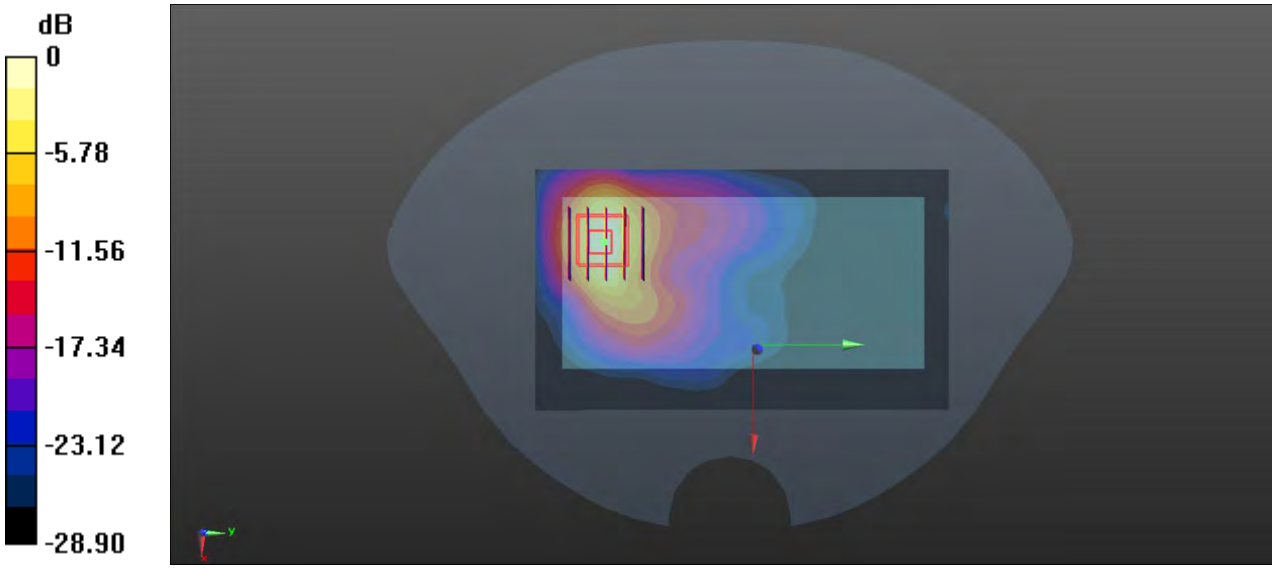
Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 21350/Area Scan (71x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 2.68 W/kg

Ch 21350/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.516 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 7.67 W/kg
SAR(1 g) = 2.35 W/kg; SAR(10 g) = 0.887 W/kg
Maximum value of SAR (measured) = 2.49 W/kg



0 dB = 2.49 W/kg

MEAS.29 Right Head with Tilt on Low Channel in LTE Band 38 mode with Up Antenna
Date: 2020.01.08
Communication System Band: 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; σ = 1.89 S/m; ε_r = 40.017; ρ = 1000 kg/m^3
Phantom section: Right Section

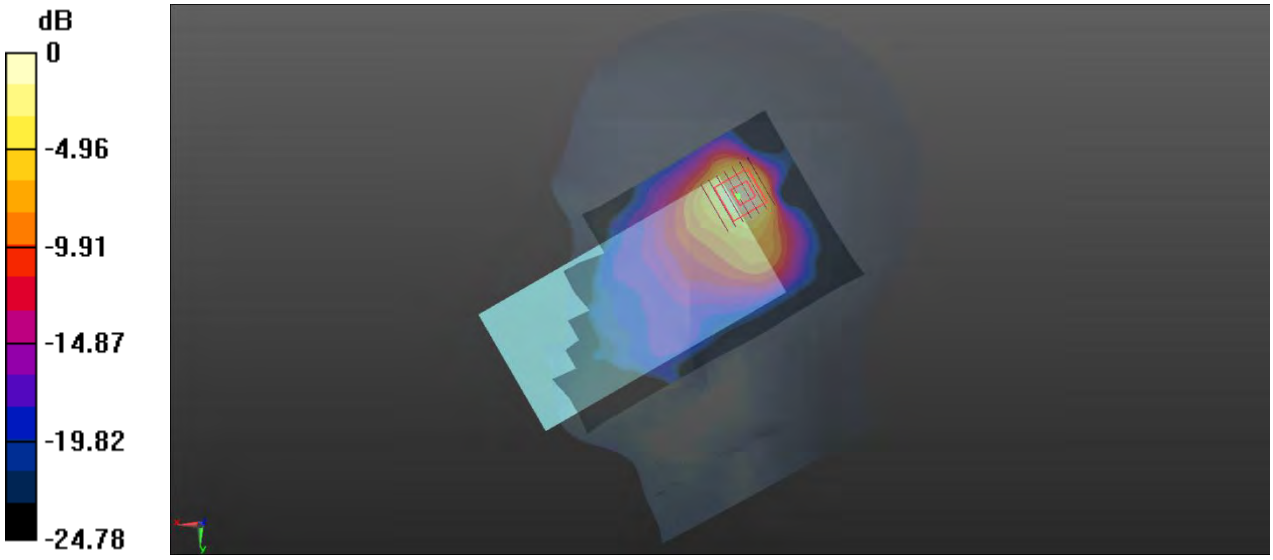
Ambient Temperature:22.3 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch37850/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.554 W/kg

Ch37850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.482 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.501 W/kg; SAR(10 g) = 0.202 W/kg
Maximum value of SAR (measured) = 0.547 W/kg



0 dB = 0.547 W/kg

MEAS.30 Body Plane with Back Side 15mm on Low Channel in LTE Band 38 mode with Up Antenna
Date: 2020.01.07
Communication System Band: 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; σ = 1.896 S/m; ε_r = 40.33; ρ = 1000 kg/m^3
Phantom section: Flat Section

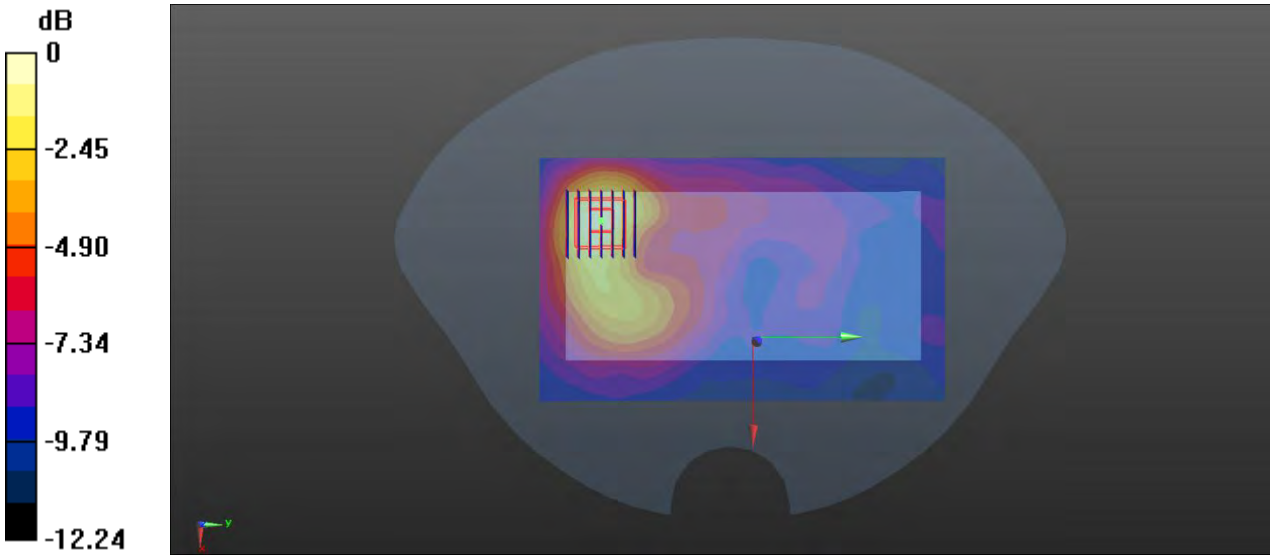
Ambient Temperature:22.1 Liquid Temperature:20.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch37850/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0855 W/kg

Ch37850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.654 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.156 W/kg
SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.039 W/kg
Maximum value of SAR (measured) = 0.0826 W/kg



0 dB = 0.0826 W/kg

MEAS.31 Body Plane with Top Edge 10mm on Low Channel in LTE Band 38 mode with Up Antenna
Date: 2020.01.07
Communication System Band: 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; σ = 1.896 S/m; ε_r = 40.33; ρ = 1000 kg/m^3
Phantom section: Flat Section

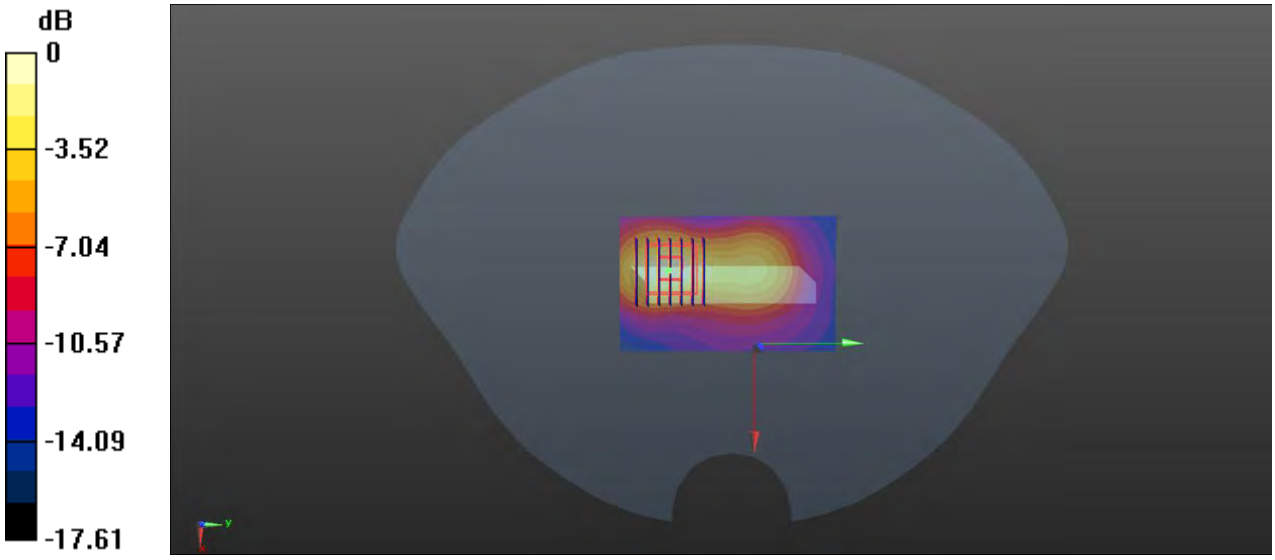
Ambient Temperature:22.1 Liquid Temperature:20.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch37850/Area Scan (51x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.216 W/kg

Ch37850/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.911 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.426 W/kg
SAR(1 g) = 0.187 W/kg; SAR(10 g) = 0.082 W/kg
Maximum value of SAR (measured) = 0.213 W/kg



0 dB = 0.213 W/kg

MEAS.32 Right Head with Tilt on High Channel in LTE Band 41 mode with Up Antenna
Date: 2020.01.06
Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2645 MHz;Duty Cycle: 1:1.58
Medium parameters used (extrapolated): f = 2645 MHz; σ = 2.038 S/m; ε_r = 38.129; ρ = 1000 kg/m^3
Phantom section: Right Section

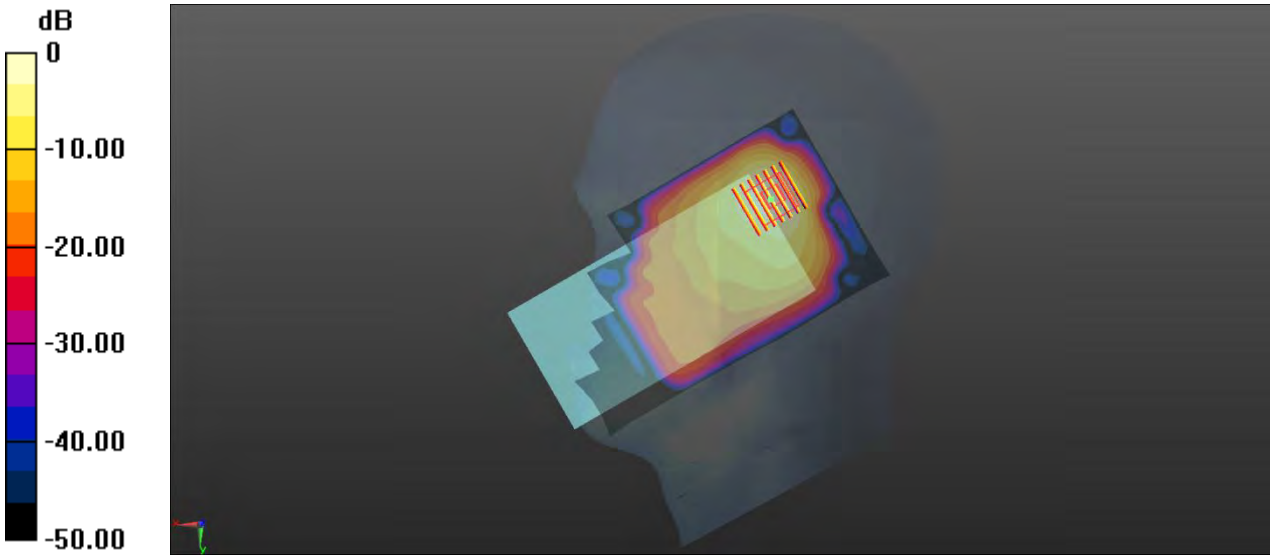
Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch41140/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.743 W/kg

Ch41140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.790 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 0.652 W/kg; SAR(10 g) = 0.254 W/kg
Maximum value of SAR (measured) = 0.735 W/kg



0 dB = 0.735 W/kg

MEAS.33 Body Plane with Back Side 15mm on High Channel in LTE Band 41 mode with Up Antenna
Date: 2020.01.05
Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2645 MHz;Duty Cycle: 1:1.58
Medium parameters used (extrapolated): f = 2645 MHz; σ = 2.03 S/m; ε_r = 37.43; ρ = 1000 kg/m^3
Phantom section: Flat Section

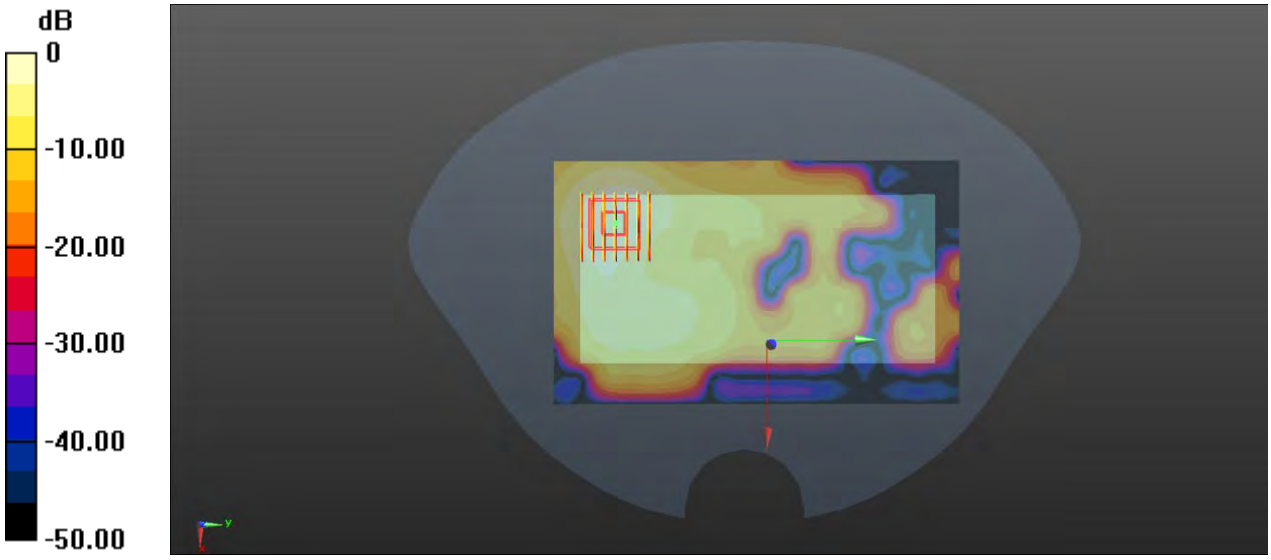
Ambient Temperature:22.3 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch41140/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0833 W/kg

Ch41140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.640 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.170 W/kg
SAR(1 g) = 0.075 W/kg; SAR(10 g) = 0.034 W/kg
Maximum value of SAR (measured) = 0.0843 W/kg



0 dB = 0.0843 W/kg

MEAS.34 Body Plane with Top Edge 10mm on High Channel in LTE Band 41 mode with Up Antenna
Date: 2020.01.05
Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2645 MHz;Duty Cycle: 1:1.58
Medium parameters used (extrapolated): f = 2645 MHz; σ = 2.03 S/m; ε_r = 37.43; ρ = 1000 kg/m^3
Phantom section: Flat Section

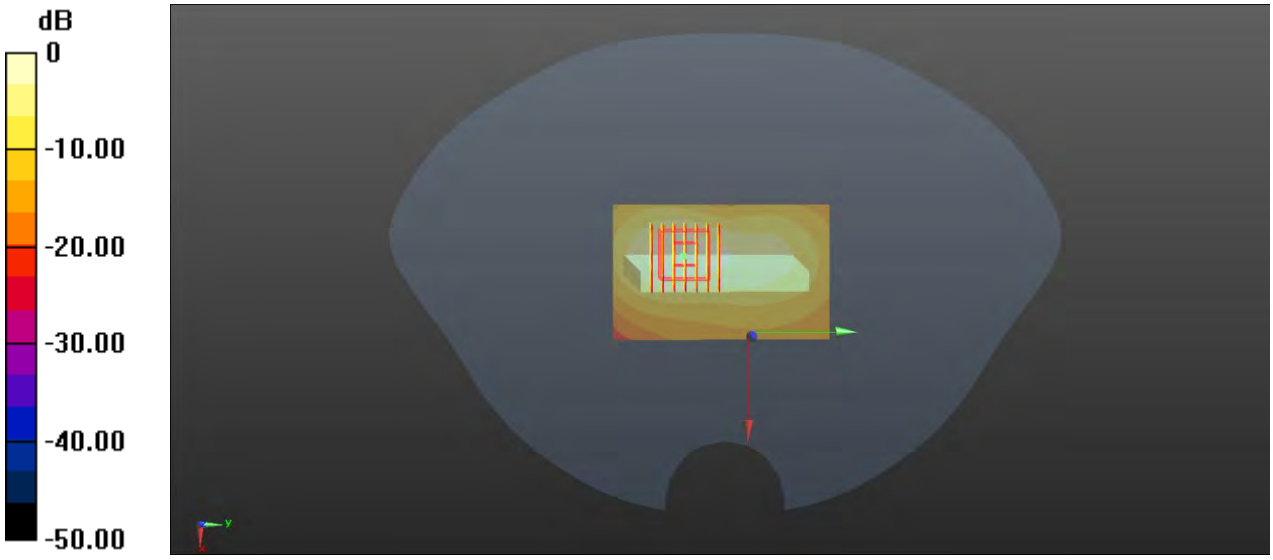
Ambient Temperature:22.3 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch41140/Area Scan (51x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.293 W/kg

Ch41140/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.393 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.651 W/kg
SAR(1 g) = 0.259 W/kg; SAR(10 g) = 0.107 W/kg
Maximum value of SAR (measured) = 0.291 W/kg



0 dB = 0.291 W/kg

MEAS.35 Left Head with Cheek on High Channel in IEEE802.11b mode
Date: 2020.01.11
Communication System Band: WLAN(b); Frequency: 2462 MHz;Duty Cycle: 1:1.01
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.798 S/m; ε_r = 37.921; ρ = 1000 kg/m^3
Phantom section: Left Section

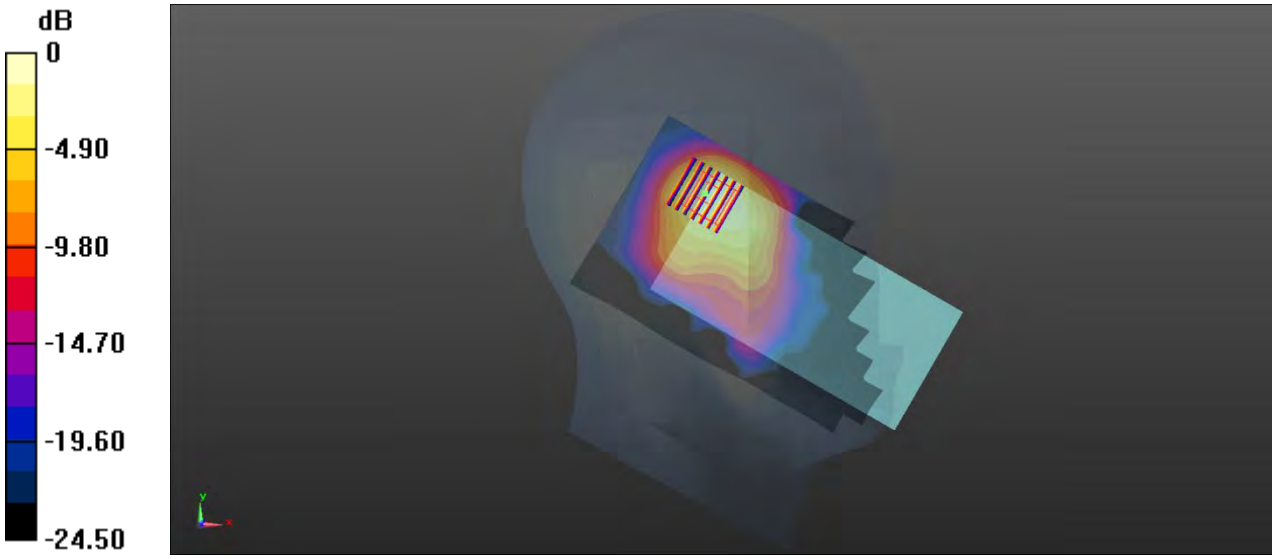
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch11/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.738 W/kg

Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.75 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.48 W/kg
SAR(1 g) = 0.597 W/kg; SAR(10 g) = 0.289 W/kg
Maximum value of SAR (measured) = 0.677 W/kg



0 dB = 0.677 W/kg

MEAS.36 Body Plane with Back Side 15mm on Middle Channel in IEEE802.11b mode
Date: 2020.01.11
Communication System Band: WLAN(b); Frequency: 2437 MHz;Duty Cycle: 1:1.01
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.755 S/m; ε_r = 38.117; ρ = 1000 kg/m^3
Phantom section: Flat Section

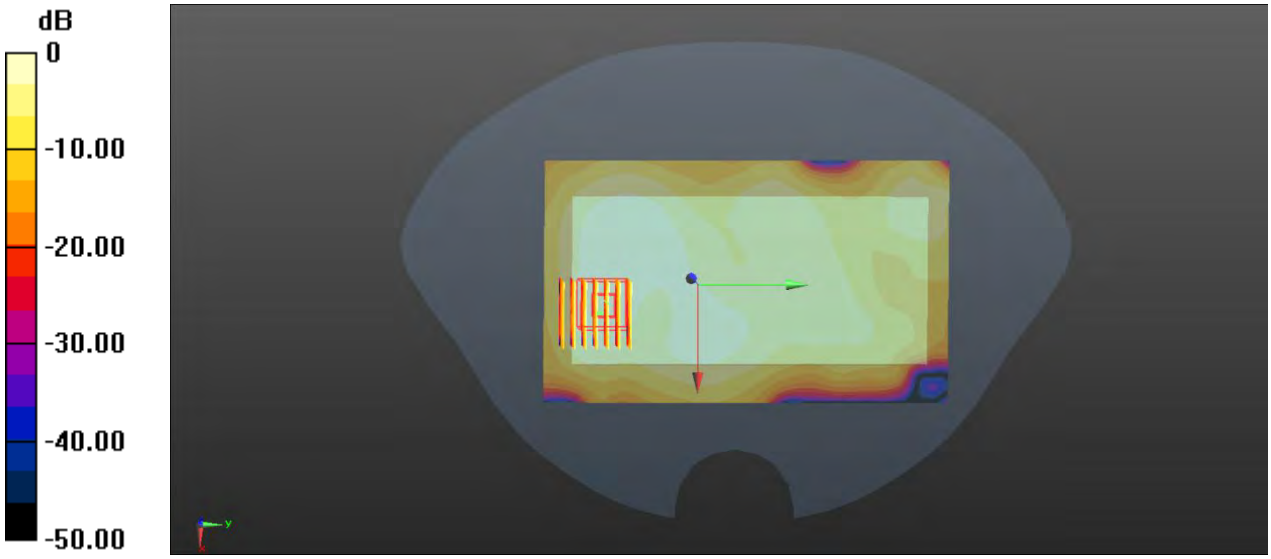
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0920 W/kg

Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.847 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.181 W/kg
SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.039 W/kg
Maximum value of SAR (measured) = 0.0907 W/kg



0 dB = 0.0907 W/kg

MEAS.37 Body Plane with Back Side 10mm on Middle Channel in IEEE802.11b mode
Date: 2020.01.11
Communication System Band: WLAN(b); Frequency: 2437 MHz;Duty Cycle: 1:1.01
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.755 S/m; ε_r = 38.117; ρ = 1000 kg/m^3
Phantom section: Flat Section

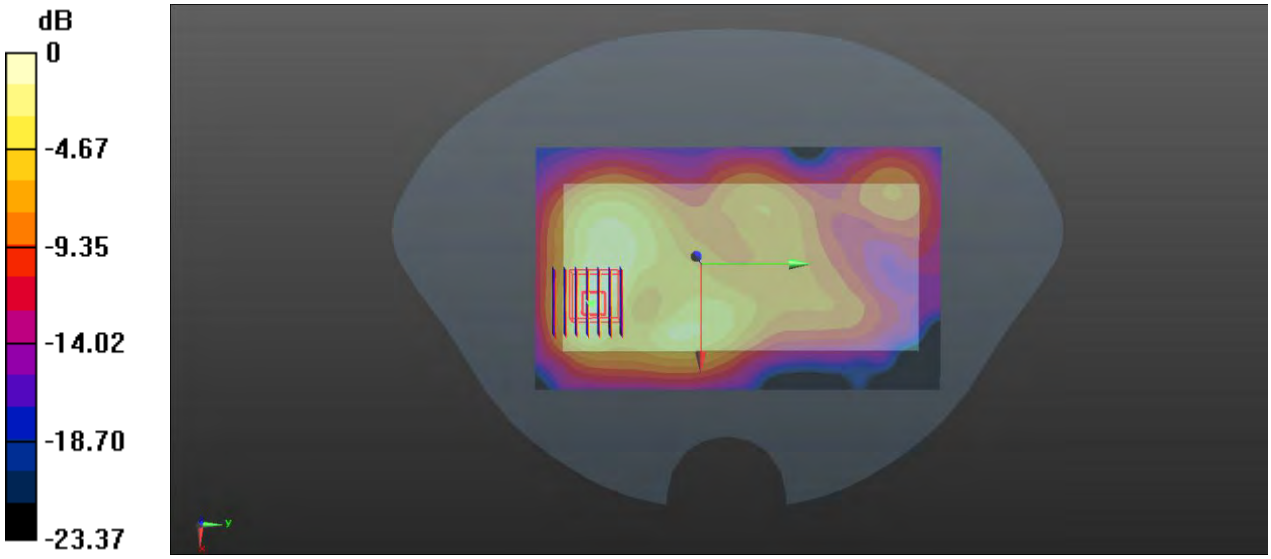
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.273 W/kg

Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.219 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.551 W/kg
SAR(1 g) = 0.240 W/kg; SAR(10 g) = 0.107 W/kg
Maximum value of SAR (measured) = 0.266 W/kg



0 dB = 0.266 W/kg

MEAS.38 Left Head with Tilt on Channel 60 in IEEE802.11a mode
Date: 2020.01.12
Communication System Band: WLAN(a); Frequency: 5300 MHz;Duty Cycle: 1:1.03
Medium parameters used: f = 5300 MHz; σ = 4.808 S/m; ε_r = 35.905; ρ = 1000 kg/m^3
Phantom section: Left Section

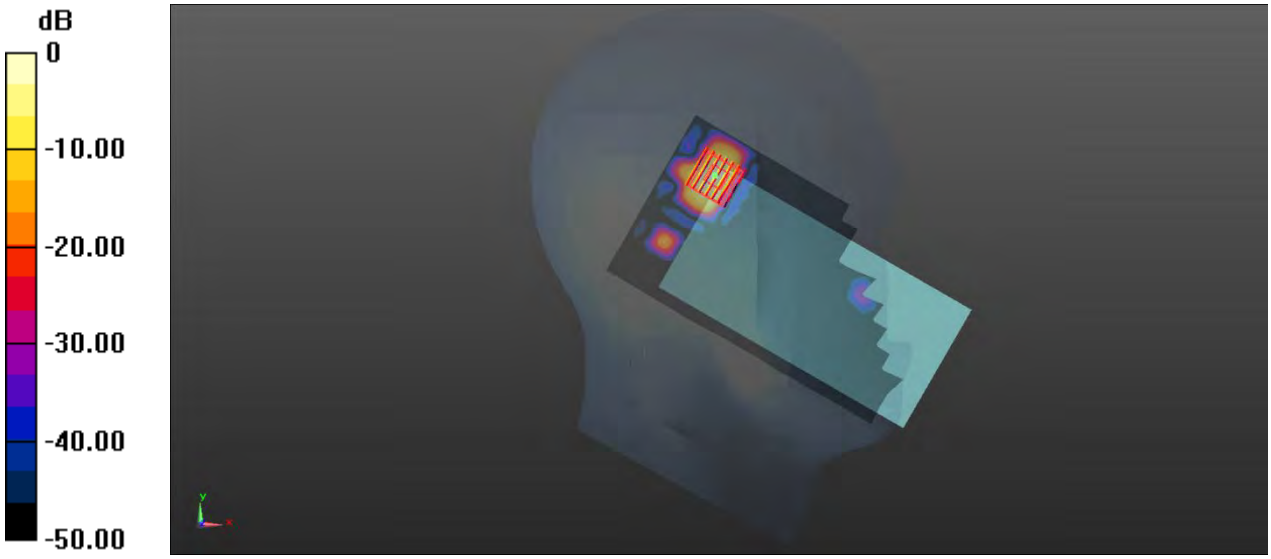
Ambient Temperature:22.6 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.51, 5.51, 5.51); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch60/Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.646 W/kg

Ch60/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.603 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 3.39 W/kg
SAR(1 g) = 0.316 W/kg; SAR(10 g) = 0.080 W/kg
Maximum value of SAR (measured) = 0.725 W/kg



0 dB = 0.725 W/kg

MEAS.39 Left Head with Tilt on Channel 100 in IEEE802.11a mode
Date: 2020.01.14
Communication System Band: WLAN(a); Frequency: 5500 MHz;Duty Cycle: 1:1.03
Medium parameters used: f = 5500 MHz; σ = 4.758 S/m; ε_r = 35.171; ρ = 1000 kg/m^3
Phantom section: Left Section

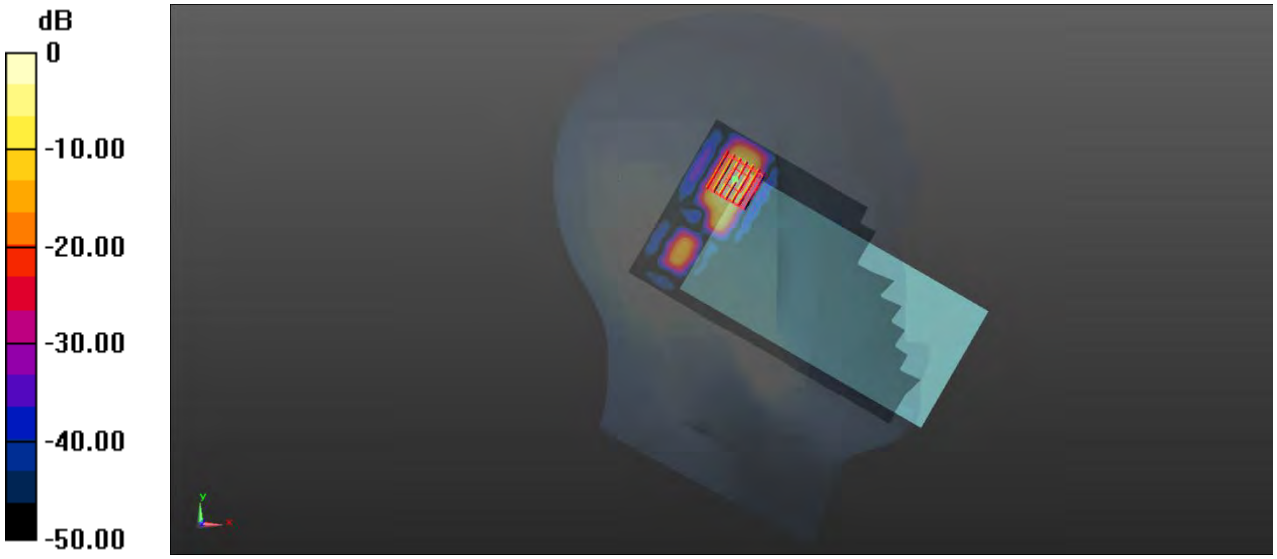
Ambient Temperature:22.2 Liquid Temperature:20.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.8, 4.8, 4.8); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch100/Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.604 W/kg

Ch100/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 1.737 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.11 W/kg
SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.062 W/kg
Maximum value of SAR (measured) = 0.586 W/kg



0 dB = 0.586 W/kg

MEAS.40 Left Head with Tilt on Channel 149 in IEEE802.11a mode
Date: 2020.01.15
Communication System Band: WLAN(a); Frequency: 5745 MHz;Duty Cycle: 1:1.03
Medium parameters used: f = 5745 MHz; σ = 5.29 S/m; ε_r = 34.458; ρ = 1000 kg/m^3
Phantom section: Left Section

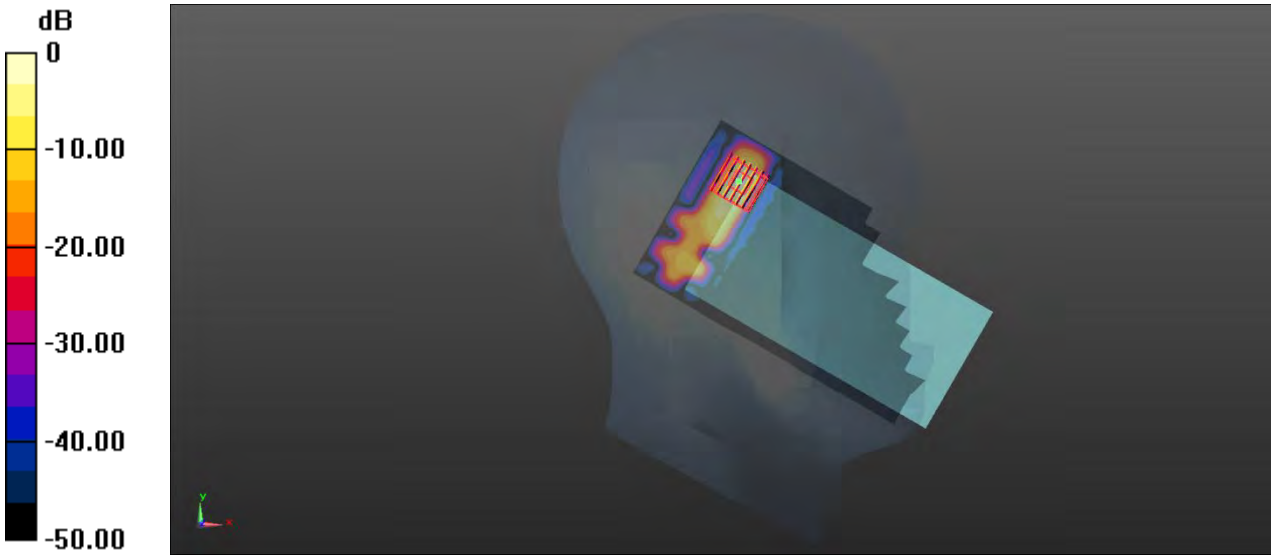
Ambient Temperature:22.1 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.06, 5.06, 5.06); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch149/Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.887 W/kg

Ch149/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.679 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.63 W/kg
SAR(1 g) = 0.360 W/kg; SAR(10 g) = 0.094 W/kg
Maximum value of SAR (measured) = 0.828 W/kg



0 dB = 0.828 W/kg

MEAS.41 Body Plane with Back Side 15mm on Channel 60 in IEEE802.11a mode
Date: 2020.01.12
Communication System Band: WLAN(a); Frequency: 5300 MHz;Duty Cycle: 1:1.03
Medium parameters used: f = 5300 MHz; σ = 4.808 S/m; ε_r = 35.905; ρ = 1000 kg/m^3
Phantom section: Flat Section

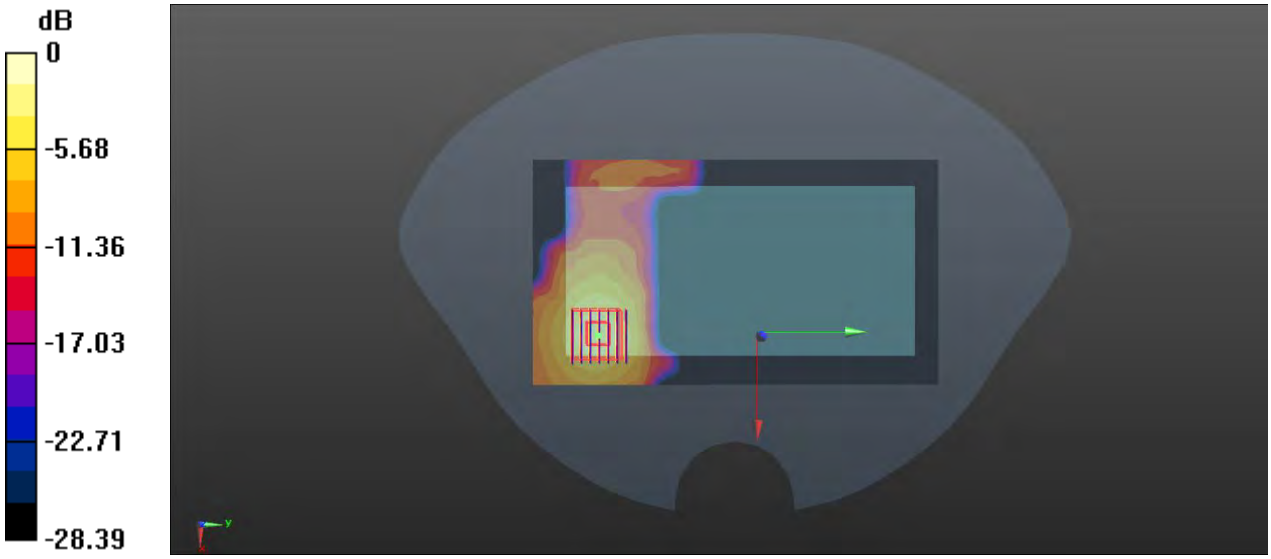
Ambient Temperature:22.6 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.51, 5.51, 5.51); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch60/Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.220 W/kg

Ch60/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0.8920 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.720 W/kg
SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.075 W/kg
Maximum value of SAR (measured) = 0.365 W/kg



0 dB = 0.365 W/kg

MEAS.42 Body Plane with Back Side 15mm on Channel 116 in IEEE802.11a mode
Date: 2020.01.14
Communication System Band: WLAN(a); Frequency: 5580 MHz;Duty Cycle: 1:1.03
Medium parameters used: f = 5580 MHz; σ = 4.868 S/m; ε_r = 34.972; ρ = 1000 kg/m^3
Phantom section: Flat Section

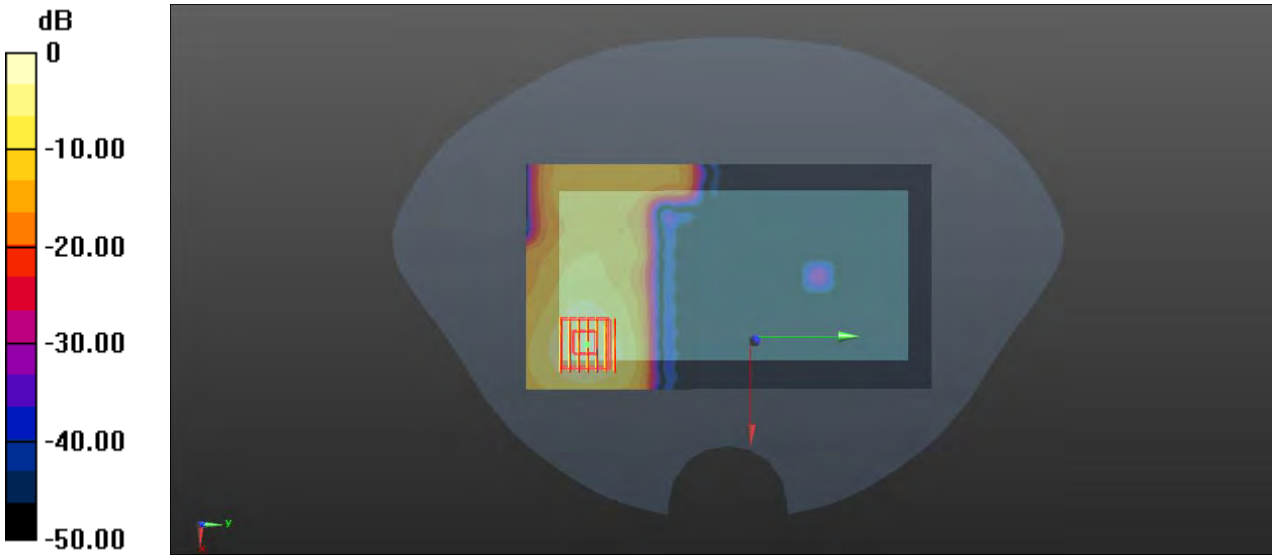
Ambient Temperature:22.2 Liquid Temperature:20.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.8, 4.8, 4.8); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch116/Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.246 W/kg

Ch116/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.877 W/kg
SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.087 W/kg
Maximum value of SAR (measured) = 0.435 W/kg



0 dB = 0.435 W/kg

MEAS.43 Body Plane with Back Side 15mm on Channel 149 in IEEE802.11a mode
Date: 2020.01.15
Communication System Band: WLAN(a); Frequency: 5745 MHz;Duty Cycle: 1:1.03
Medium parameters used: f = 5745 MHz; σ = 5.29 S/m; ε_r = 34.458; ρ = 1000 kg/m^3
Phantom section: Flat Section

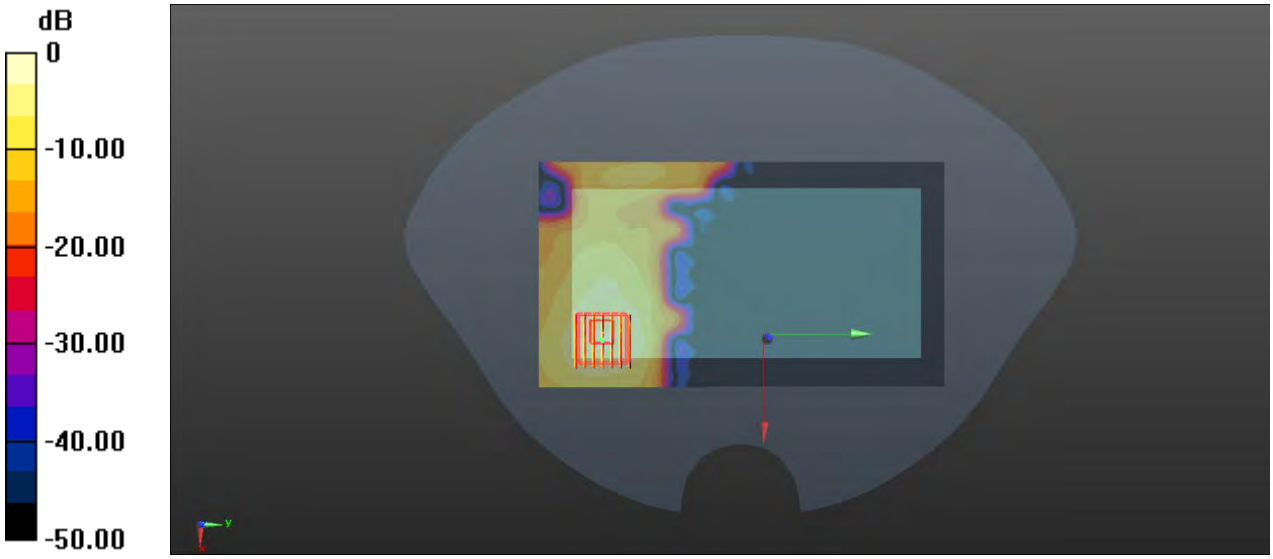
Ambient Temperature:22.1 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.06, 5.06, 5.06); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch149/Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.216 W/kg

Ch149/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.954 W/kg
SAR(1 g) = 0.223 W/kg; SAR(10 g) = 0.085 W/kg
Maximum value of SAR (measured) = 0.417 W/kg



0 dB = 0.417 W/kg

MEAS.44 Body Plane with Top Edge 10mm on Channel 44 in IEEE802.11a mode
Date: 2020.01.13
Communication System Band: WLAN(a); Frequency: 5220 MHz;Duty Cycle: 1:1.03
Medium parameters used: f = 5220 MHz; σ = 4.74 S/m; ε_r = 35.704; ρ = 1000 kg/m^3
Phantom section: Flat Section

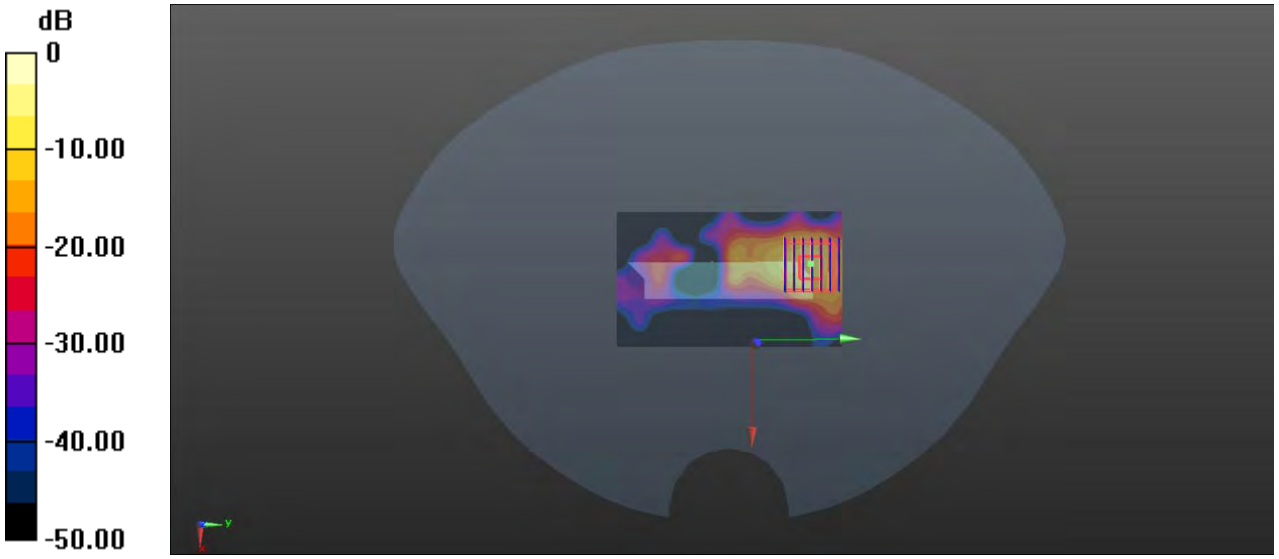
Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.51, 5.51, 5.51); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch44/Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.370 W/kg

Ch44/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.973 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.117 W/kg
Maximum value of SAR (measured) = 0.648 W/kg



0 dB = 0.648 W/kg

MEAS.45 Body Plane with Top Edge 10mm on Channel 149 in IEEE802.11a mode
Date: 2020.01.15
Communication System Band: WLAN(a); Frequency: 5745 MHz;Duty Cycle: 1:1.03
Medium parameters used: f = 5745 MHz; σ = 5.29 S/m; ε_r = 34.458; ρ = 1000 kg/m^3
Phantom section: Flat Section

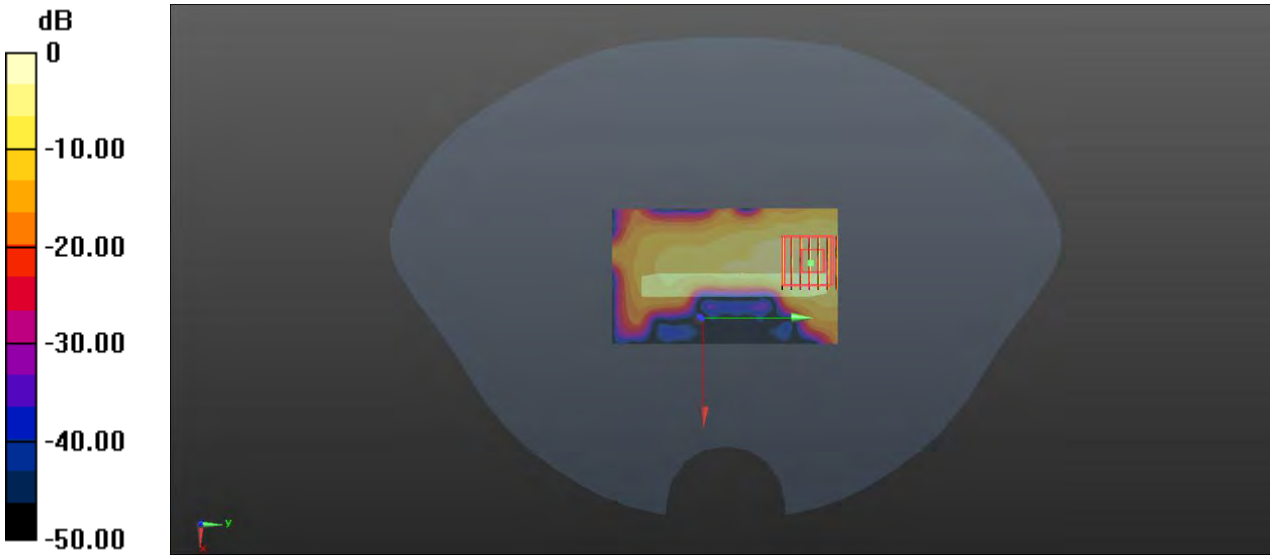
Ambient Temperature:22.1 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.06, 5.06, 5.06); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch149/Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.322 W/kg

Ch149/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.643 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.47 W/kg
SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.133 W/kg
Maximum value of SAR (measured) = 0.709 W/kg



0 dB = 0.709 W/kg

MEAS.46 Body Plane with Top Edge 0mm on Channel 60 in IEEE802.11a mode
Date: 2020.01.12
Communication System Band: WLAN(a); Frequency: 5300 MHz;Duty Cycle: 1:1.03
Medium parameters used: f = 5300 MHz; σ = 4.808 S/m; ε_r = 35.905; ρ = 1000 kg/m^3
Phantom section: Flat Section

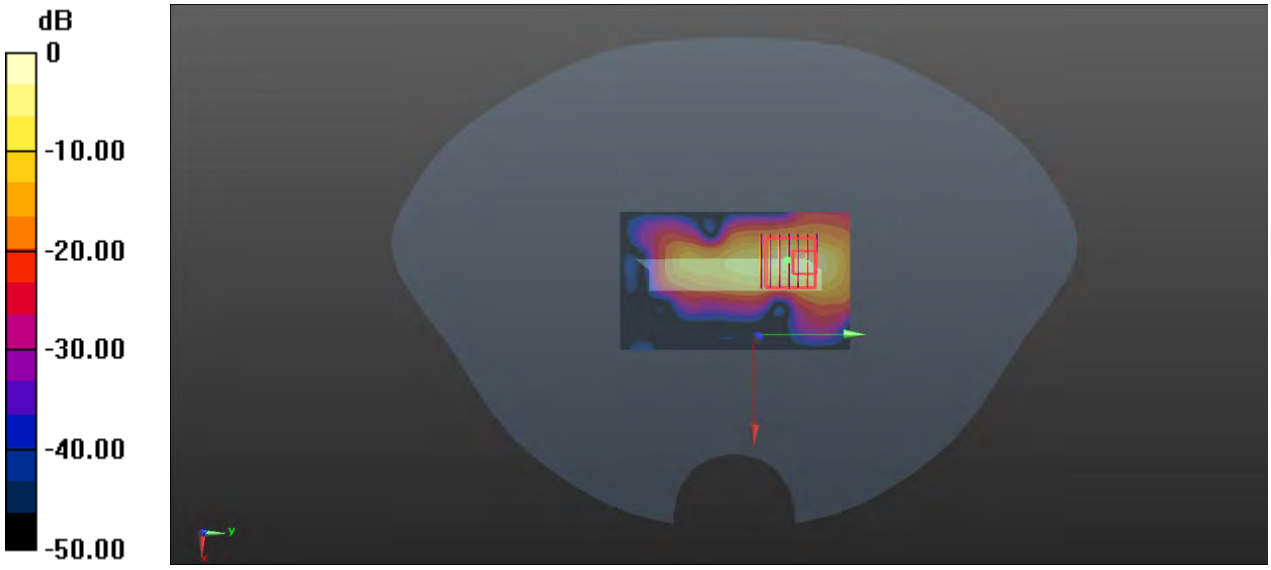
Ambient Temperature:22.6 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.51, 5.51, 5.51); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 60/Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 2.93 W/kg

Ch 60/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 8.885 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 18.4 W/kg
SAR(1 g) = 2.82 W/kg; SAR(10 g) = 0.716 W/kg
Maximum value of SAR (measured) = 6.79 W/kg



0 dB = 6.79 W/kg

MEAS.47 Body Plane with Top Edge 0mm on Channel 116 in IEEE802.11a mode
Date: 2020.01.14
Communication System Band: WLAN(a); Frequency: 5580 MHz;Duty Cycle: 1:1.03
Medium parameters used: f = 5580 MHz; σ = 4.868 S/m; ε_r = 34.972; ρ = 1000 kg/m^3
Phantom section: Flat Section

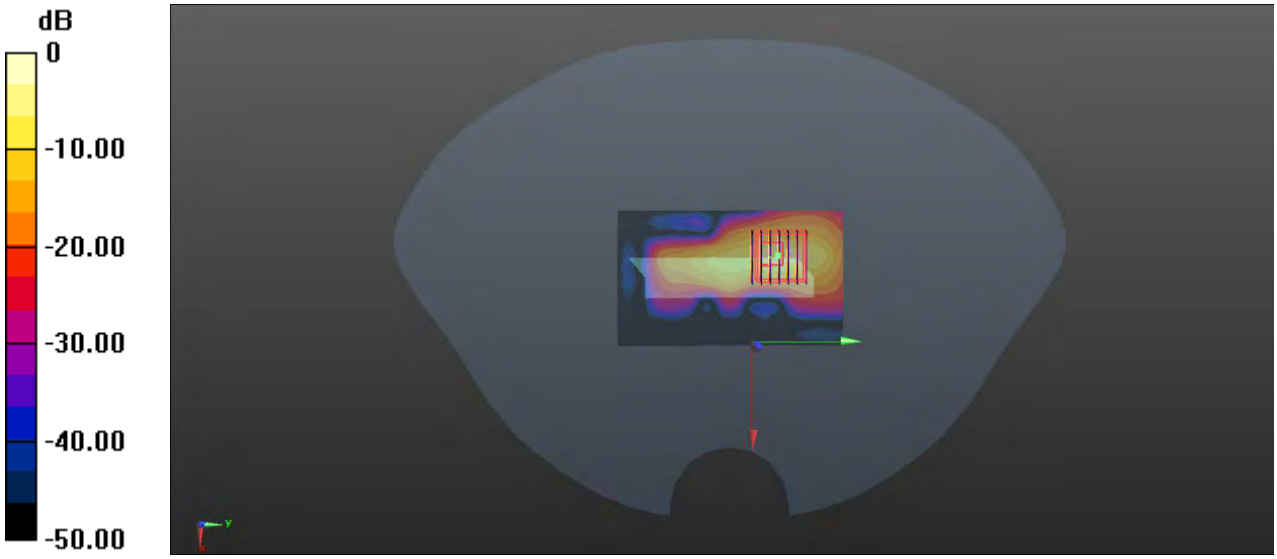
Ambient Temperature:22.2 Liquid Temperature:20.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.8, 4.8, 4.8); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch116/Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 3.38 W/kg

Ch116/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 9.746 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 20.3 W/kg
SAR(1 g) = 2.97 W/kg; SAR(10 g) = 0.740 W/kg
Maximum value of SAR (measured) = 7.59 W/kg



0 dB = 7.59 W/kg

MEAS.48 Left Head with Cheek on Middle Channel in Bluetooth DH5 mode
Date: 2020.01.11
Communication System Band: BT; Frequency: 2441 MHz;Duty Cycle: 1:1.3
Medium parameters used: f = 2441 MHz; σ = 1.761 S/m; ε_r = 38.112; ρ = 1000 kg/m^3
Phantom section: Left Section

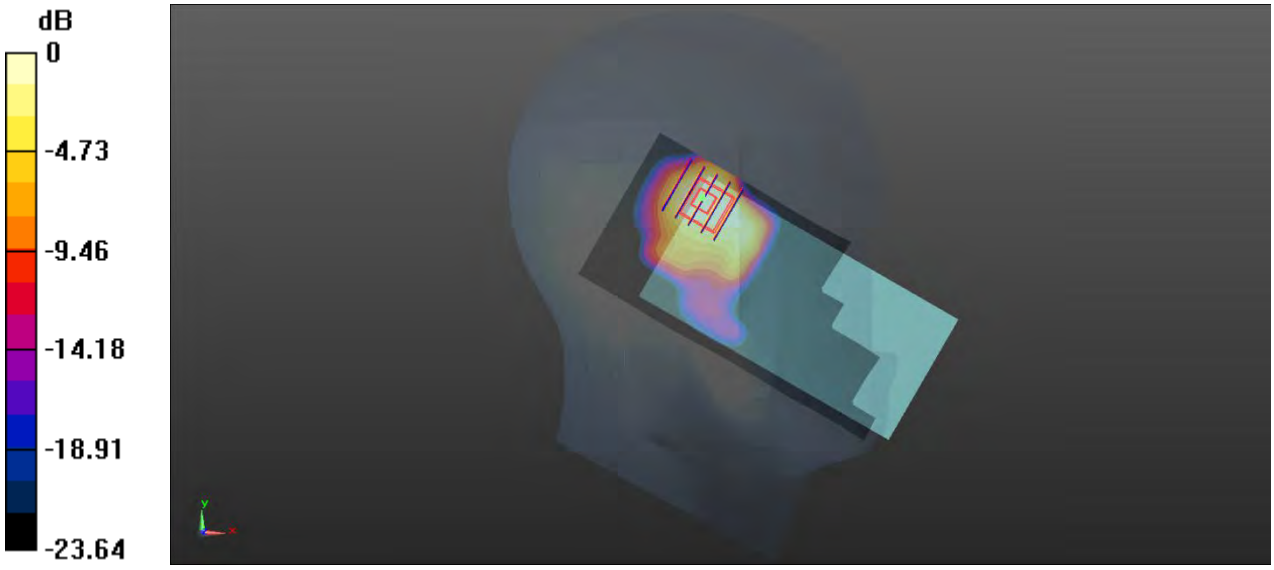
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 39/Area Scan (61x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.151 W/kg

Ch 39/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.047 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.199 W/kg
SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.049 W/kg
Maximum value of SAR (measured) = 0.116 W/kg



0 dB = 0.116 W/kg

MEAS.49 Body Plane with Back Side 15mm on Middle Channel in Bluetooth DH5 mode
Date: 2020.01.11
Communication System Band: BT; Frequency: 2441 MHz;Duty Cycle: 1:1.3
Medium parameters used: f = 2441 MHz; σ = 1.761 S/m; ε_r = 38.112; ρ = 1000 kg/m^3
Phantom section: Flat Section

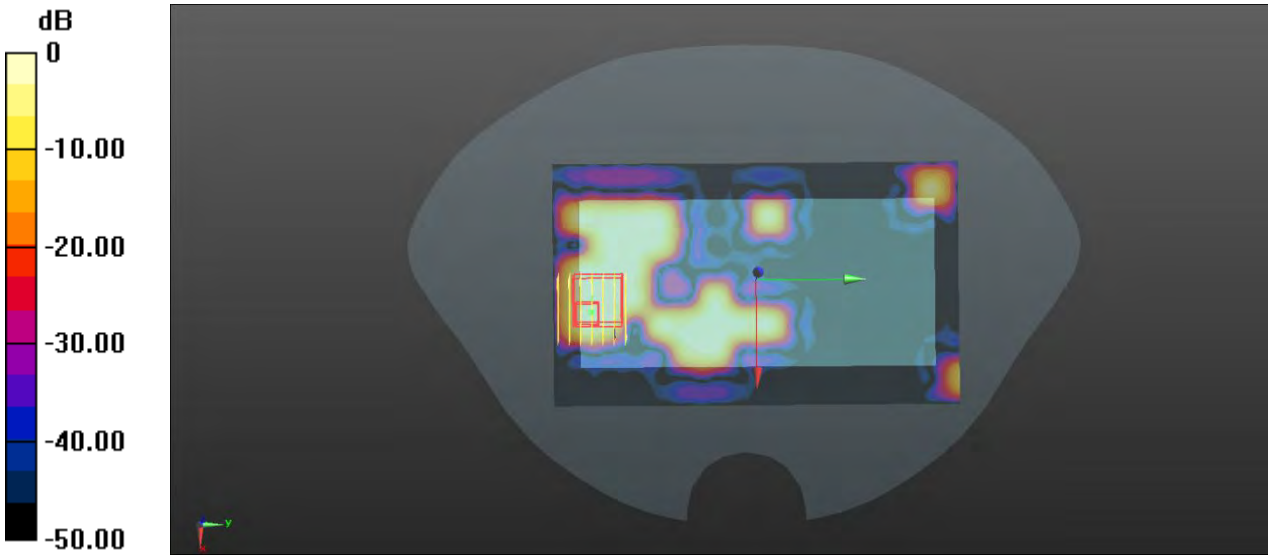
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0139 W/kg

Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.9010 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.0270 W/kg
SAR(1 g) = 0.00555 W/kg; SAR(10 g) = 0.00212 W/kg
Maximum value of SAR (measured) = 0.00533 W/kg



0 dB = 0.00533 W/kg

MEAS.50 Body Plane with Back Side 10mm on Middle Channel in Bluetooth DH5 mode
Date: 2020.01.11
Communication System Band: BT; Frequency: 2441 MHz;Duty Cycle: 1:1.3
Medium parameters used: f = 2441 MHz; σ = 1.761 S/m; ε_r = 38.112; ρ = 1000 kg/m^3
Phantom section: Flat Section

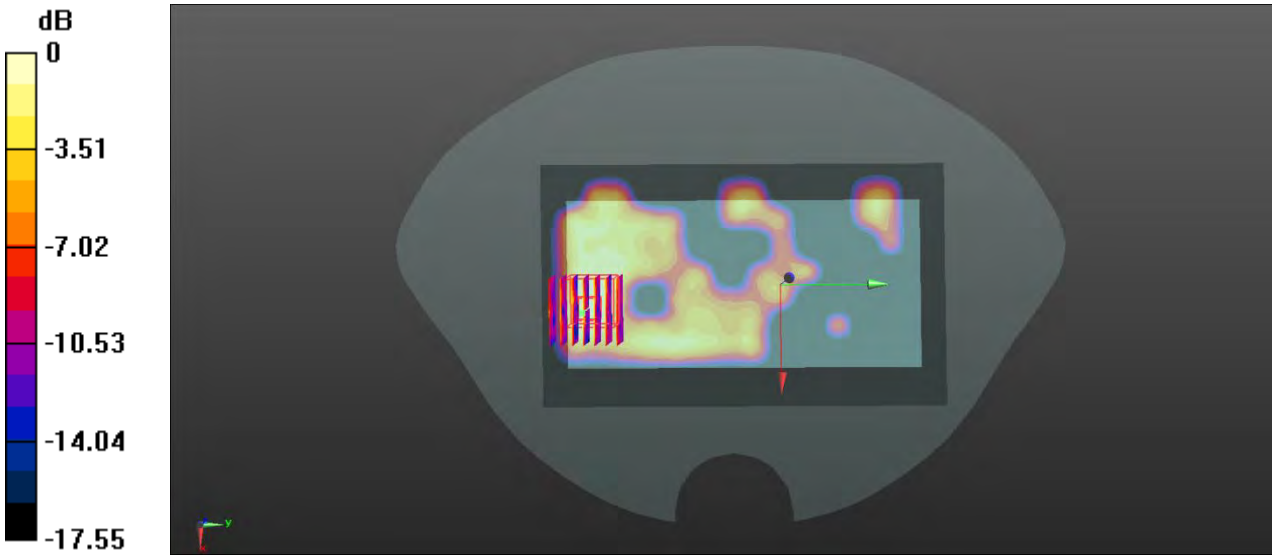
Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0194 W/kg

Ch39/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.305 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.0260 W/kg
SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00515 W/kg
Maximum value of SAR (measured) = 0.0154 W/kg



0 dB = 0.0154 W/kg

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ19C0360-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ19C0360-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “CALIBRATION REPORT.pdf”.

--END OF REPORT--