

FCC SAR REPORT

Report No.: JYTSZ-R14-2400104
Applicant: Sonoma Communications LLC
Address of Applicant: 1159 Sonora Court Suite 322, Sunnyvale CA 94086 USA

Equipment Under Test (EUT)

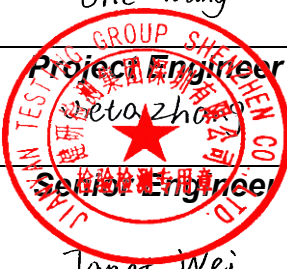
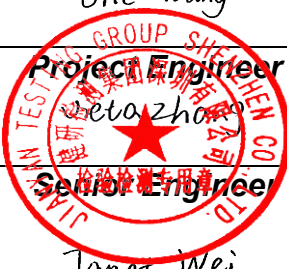
Product Name: POZZI Turbo Unlocked Smartphone
Model No.: Turbo, Turbo 2, Turbo 3
Trade mark: POZZI

FCC ID: OCVPOZ02ZITBO

Applicable standards: FCC 47 CFR Part 2.1093

Date of Test: 03 Sep., 2024 ~ 25 Sep., 2024

Test Result: Maximum Reported 1-g SAR (W/kg)
Head: 0.401 Body: 1.156 Hotspot: 1.156

Project by:	<u>Eric Wang</u> 	Date:	<u>04 Nov., 2024</u>
Reviewed by:	<u>Weta zhang</u> 	Date:	<u>04 Nov., 2024</u>
Approved by:	<u>James Wei</u> Manager	Date:	<u>04 Nov., 2024</u>

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2 Version

Version No.	Date	Description
<i>00</i>	<i>04 Nov., 2024</i>	<i>Original</i>

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4 SAR Results Summary

The maximum results of Specific Absorption Rate (SAR) found during test as below:
 <Highest Reported standalone SAR Summary>

Exposure Position	Frequency Band	Reported 1-g SAR (W/kg)	Equipment Class	Highest Reported 1-g SAR (W/kg)
Head	GSM 850	0.138	PCE	0.401
	PCS 1900	0.062		
	WCDMA Band II	0.104		
	WCDMA Band IV	0.068		
	WCDMA Band V	0.126		
	LTE Band 2	0.137		
	LTE Band 5	0.126		
	LTE Band 7	0.141		
	LTE Band 12& LTE Band 17	0.101		
	LTE Band 66& LTE Band 4	0.083		
	LTE Band 71	0.081		
	WLAN 2.4 GHz	0.208	DTS	
	Bluetooth	0.008	DSS	
	WLAN 5.2 GHz	0.401	NII	
WLAN 5.8 GHz	0.083			
Body (10 mm Gap)	GSM 850	0.373	PCE	1.156
	PCS 1900	0.511		
	WCDMA Band II	1.054		
	WCDMA Band IV	0.997		
	WCDMA Band V	0.378		
	LTE Band 2	1.156		
	LTE Band 5	0.337		
	LTE Band 7	0.404		
	LTE Band 12& LTE Band 17	0.165		
	LTE Band 66& LTE Band 4	0.872		
	LTE Band 71	0.155		
	WLAN 2.4GHz	0.075	DTS	
	Bluetooth	0.001	DSS	
	WLAN 5.2 GHz	0.230	NII	
WLAN 5.8 GHz	0.076			
Hotspot (10 mm Gap)	GSM 850	0.373	PCE	1.156
	PCS 1900	0.511		
	WCDMA Band II	1.054		
	WCDMA Band IV	0.997		
	WCDMA Band V	0.378		
	LTE Band 2	1.156		
	LTE Band 5	0.337		
	LTE Band 7	0.636		
	LTE Band 12& LTE Band 17	0.165		
	LTE Band 66& LTE Band 4	1.053		
	LTE Band 71	0.159		
	WLAN 2.4 GHz	0.075	DTS	
	Bluetooth	0.001	DSS	
	WLAN 5.2 GHz	0.304	NII	
WLAN 5.8 GHz	0.188			

<Highest Reported simultaneous SAR Summary>

Exposure Position	Frequency Band	Reported 1-g SAR (W/kg)	Equipment Class	Highest Reported Simultaneous Transmission 1-g SAR (W/kg)
Back	WWAN	1.156	PCE	1.386
	5G WLAN	0.230	NII	

Note:

1. The highest simultaneous transmission is scalar summation of Reported standalone SAR per FCC KDB 690783 D01 v01r03, and scalar SAR summation of all possible simultaneous transmission scenarios are < 1.6W/kg.
2. This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEC/IEEE 62209-1528:2020.
3. For FDD-LTE Band 17 is full covered by FDD-LTE Band 12, so only FDD-LTE Band 12 was tested.
4. For FDD-LTE Band 4 is full covered by FDD-LTE Band 66, so only FDD-LTE Band 66 was tested.

5 General Information

5.1 Client Information

Applicant:	Sonoma Communications LLC
Address of Applicant:	1159 Sonora Court Suite 322, Sunnyvale CA 94086 USA
Manufacturer:	Shenzhen united technology Co., LTD
Address of Manufacturer:	A 801, Building 5, Shenzhen Software Industry Base, No. 11, 13, 15, Haitian 1st Road, Binhai Community, Yuehai Street, Nanshan District, Shenzhen

5.2 General Description of EUT

Product Name:	POZZI Turbo Unlocked Smartphone			
Model No.:	Turbo, Turbo 2, Turbo 3			
Category of device	Portable device			
Operation Frequency:	GSM:	GSM850: 824.2~848.8 MHz	PCS 1900: 1850.2~1909.8 MHz	
	WCDMA:	Band II: 1852.4~1907.6 MHz	Band V: 826.4~846.6 MHz	
		Band IV: 1712.4~1752.6 MHz		
	LTE:	Band 2:1850MHz~1910MHz	Band 4:1710MHz~1755MHz	
		Band 5:824MHz~849MHz	Band 7: 2500MHz~2570MHz	
		Band 12: 699MHz~716MHz	Band 17: 704MHz~716MHz	
		Band 66:1710MHz~1780MHz	Band 71: 663MHz~698MHz	
		Band 71: 663MHz~698MHz		
	Wi-Fi:	2412MHz~2462MHz	5150MHz-5250MHz	
		5725MHz-5850MHz		
Bluetooth: 2402 MHz ~ 2480 MHz				
Modulation technology:	GSM:	<input checked="" type="checkbox"/> Voice(GMSK)	<input checked="" type="checkbox"/> GPRS(GMSK)	<input checked="" type="checkbox"/> EGPRS(GMSK, 8PSK)
	WCDMA:	<input checked="" type="checkbox"/> RMC(QPSK)	<input checked="" type="checkbox"/> HSUPA(QPSK)	<input checked="" type="checkbox"/> HSDPA(QPSK, 16QAM)
	LTE:	<input checked="" type="checkbox"/> QPSK	<input checked="" type="checkbox"/> 16QAM	<input type="checkbox"/> 64QAM
	Wi-Fi:	<input checked="" type="checkbox"/> 802.11b(DSSS)		<input checked="" type="checkbox"/> 802.11a/g/n/ac (OFDM)
	Bluetooth:	<input checked="" type="checkbox"/> BDR(GFSK)	<input checked="" type="checkbox"/> EDR(π /4-DQPSK, 8DPSK)	<input checked="" type="checkbox"/> LE(GFSK)
Antenna Type:	Internal Antenna			
Antenna Gain:	GSM 850:	-0.1 dBi	PCS 1900:	0.5 dBi
	WCDMA Band II:	0.5 dBi	WCDMA Band V	-0.1dBi
	WCDMA Band IV:	0.5 dBi		
	LTE Band 2:	0.5 dBi	LTE Band 4	0.5 dBi
	LTE Band 5:	-0.1 dBi	LTE Band 7:	0.5 dBi
	LTE Band 12:	-0.2 dBi	LTE Band 17:	-0.2 dBi
	LTE Band 66:	0.5 dBi	LTE Band 71:	-0.3 dBi
	Bluetooth:	0.3 dBi	2.4G Wi-Fi:	0.3 dBi
	5G Wi-Fi:	0.3 dBi		
(E)GPRS Class:	(E)GPRS Class: 12			
Dimensions (L*W*H):	168 mm (L)× 78 mm (W)× 9 mm (H)			

Accessories information:	Adapter: Model: Turbo Input: AC100-220V, 50/60Hz, 0.5A Output: DC 5.0V, 2.0A 10.0W	Battery: Rechargeable Li-ion Polymer Battery DC3.85V, 5000mAh Headset: Support headset
Remark:	The only differences between Model Turbo, Turbo 2, and Turbo 3 are as follows: 1. Models are designated for sale in different markets.	

5.3 Maximum RF Output Power

Mode	Average Power (dBm)	
	GSM 850	PCS 1900
GSM (Voice)	34.46	31.50
GPRS (1 TX Slot)	34.49	31.49
GPRS (2 TX Slots)	32.46	29.24
GPRS (3 TX Slots)	30.51	27.66
GPRS (4 TX Slots)	28.38	25.62
EGPRS (1 TX Slot)	27.85	27.75
EGPRS (2 TX Slots)	26.82	25.95
EGPRS (3 TX Slots)	24.48	24.18
EGPRS (4 TX Slots)	22.23	22.23

Mode	Average Power (dBm)		
	WCDMA Band II	WCDMA Band IV	WCDMA Band V
AMR 12.2 kbps	23.66	23.25	23.48
RMC 12.2 kbps	23.69	23.39	23.50
HSDPA Sub-test 1	22.77	22.67	22.38
HSDPA Sub-test 2	22.45	22.73	22.49
HSDPA Sub-test 3	22.34	22.71	21.85
HSDPA Sub-test 4	22.39	22.75	21.88
HSUPA Sub-test 1	20.93	22.68	20.73
HSUPA Sub-test 2	21.17	22.69	20.96
HSUPA Sub-test 3	21.05	22.51	20.70
HSUPA Sub-test 4	21.30	22.81	20.61
HSUPA Sub-test 5	22.88	22.84	22.90

Mode	Average Power (dBm)					
	LTE Band 2	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 66	LTE Band 71
BW/1.4 MHz	23.47	23.57	/	23.49	24.13	/
BW/3.0 MHz	23.54	23.62	/	23.51	24.00	/
BW/5.0 MHz	23.65	23.68	23.89	23.51	24.34	23.57
BW/10 MHz	23.61	23.56	23.87	23.55	24.08	23.51
BW/15 MHz	23.49	/	23.96	/	24.17	23.43
BW/20 MHz	23.88	/	24.01	/	24.17	23.29

WLAN 2.4 GHz Band Average Power (dBm)				
Mode/Band	b	g	n (HT-20)	n (HT-40)
WLAN 2.4GHz	16.67	13.09	12.17	11.81

WLAN 5.2 GHz Band Average Power (dBm)						
Mode/Band	a	ac 20	ac 40	ac 80	n 20	n 40
WLAN 5.2GHz	12.63	11.67	10.96	9.44	12.10	10.93

WLAN 5.8 GHz Band Average Power (dBm)						
Mode/Band	a	ac 20	ac 40	ac 80	n 20	n 40
WLAN 5.8GHz	13.02	11.90	11.89	10.72	13.16	11.81

Bluetooth Average Power (dBm)							
Mode/Band	1 Mbps (GFSK)	2 Mbps (π/4DQPSK)	3 Mbps (8DPSK)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=8
Bluetooth	4.30	4.74	4.91	1.3	0.62	1.26	1.10

5.4 Environment of Test Site

Temperature:	18°C ~25 °C
Humidity:	35%~75% RH
Atmospheric Pressure:	1010 mbar

5.5 Test Sample Plan

Sample Number	Used for Test Items
SZR142400104-3	SAR
<i>Remark: JianYan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.</i>	

5.6 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● CNAS - Registration No.: CNAS L15527 JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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5.7 Test Location

<p>JianYan Testing Group Shenzhen Co., Ltd. No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: http://jyt.lets.com</p>
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6 Introduction

6.1 Introduction

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.

6.2 SAR Definition

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:

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

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength. However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

7 RF Exposure Limits

7.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The 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.

7.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). 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.

7.3 RF Exposure Limits

SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
SPATIAL PEAK SAR Brain	1.6	8.0
SPATIAL AVERAGE SAR Whole Body	0.08	0.4
SPATIAL PEAK SAR Hands, Feet, Ankles, Wrists	4.0	20

Note:

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

8 SAR Measurement System

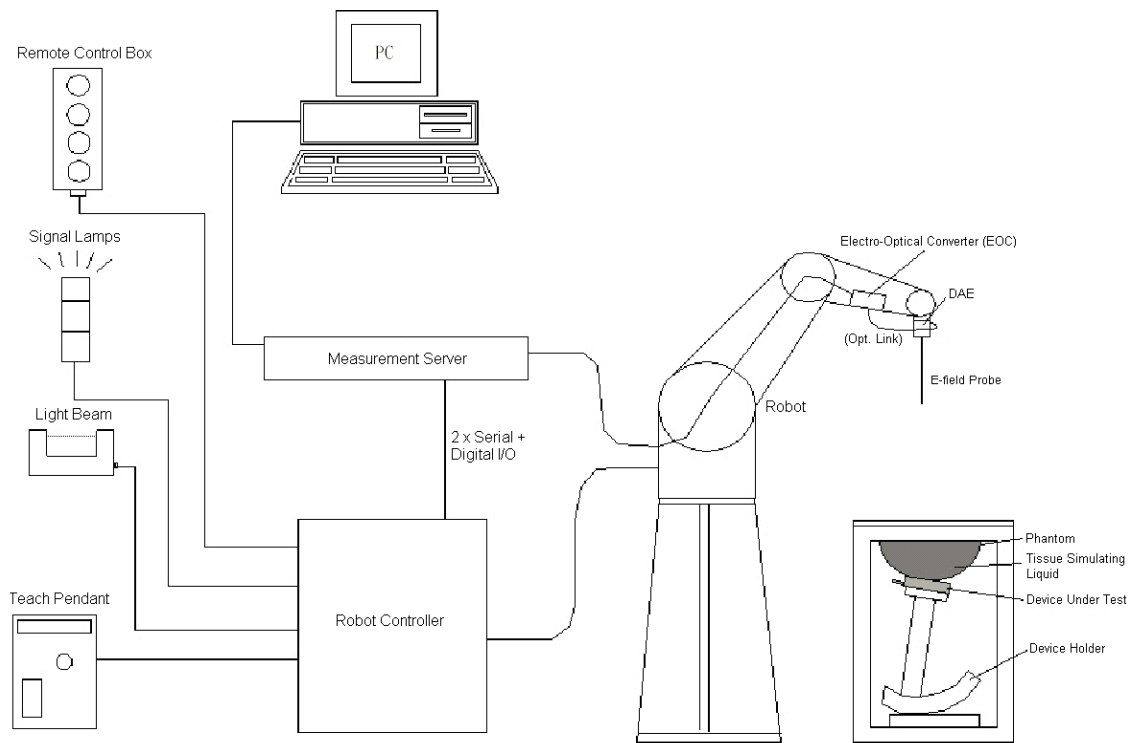


Fig. 8.1 SPEAG DASY System Configurations

The DASY system for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (EOC) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASY software
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

Component details are described in the following sub-sections.

8.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

➤ **E-Field Probe Specification**
<EX3DV4 Probe>


Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency Directivity	10 MHz to 6 GHz; Linearity: ± 0.2 dB ± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to 100 mW/g; Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 330 mm (Tip: 20mm) Tip diameter: 2.5 mm (Body: 12mm) Typical distance from probe tip to dipole centers: 1 mm	

Fig. 8.2 Photo of E-Field Probe

➤ **E-Field Probe Calibration**

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (Norm X, Norm Y and Norm Z), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data can be referred to appendix E of this report.

8.2 Data Acquisition Electronics (DAE)

The Data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and 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. The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.




Fig. 8.3 Photo of DAE

8.3 Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX60L) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli 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; nobelt drives)
- Jerk-free straight movements
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)



Fig. 8.4 Photo of Robot

8.4 Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY 5: 400MHz, Intel Celeron), chip-disk (DASY5: 128 MB), RAM (DASY5: 128 MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board. The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.



Fig. 8.5 Photo of Server for DASY5

8.5 Light Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip. The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



Fig. 8.6 Photo of Light Beam

8.6 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume Dimensions	Approx. 25 liters Length: 1000mm; Width: 500mm; Height: adjustable feet
Measurement Areas	Left Head, Right Head, Flat phantom



Fig. 8.7 Photo of SAM Twin Phantom

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. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI4 Phantom >

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6 GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209-2 and all known tissue simulating liquids.

ELI4 has been optimized regarding its performance and can be integrated into a SPEAG standard phantom table. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom can be used with the following tissue simulating liquids:

- Water-sugar based liquids can be left permanently in the phantom. Always cover the liquid if the system is not in use; otherwise the parameters will change due to water evaporation.
- DGBE based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom and the phantom should be dried when the system is not in use (desirable at least once a week).
- Do not use other organic solvents without previously testing the phantom resistiveness

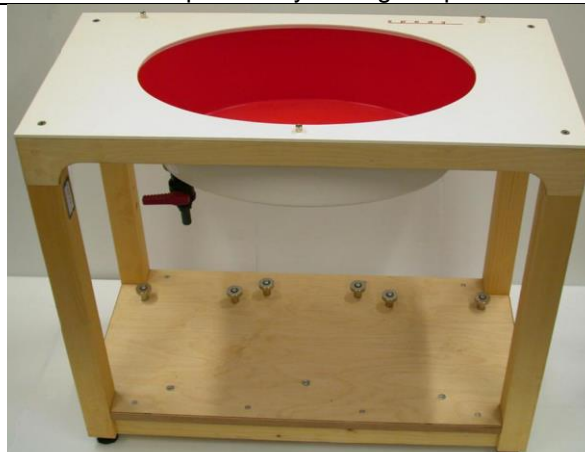


Fig.8.8 Photo of ELI4 Phantom

8.7 Device Holder

<Device Holder for SAM Twin Phantom>

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards. The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles. The DASY device holder is constructed of low-low POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



Fig. 8.9 Photo of Device Holder

8.8 Data storage and Evaluation

➤ Data Storage

The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The post-processing software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verifications of the complete software setup even after the measurement and allows correction of erroneous parameter settings. For example, if a measurement has been performed with an incorrect crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type (e.g., [V/m], [mW/g]). Some of these units are not available in certain situations or give meaningless results, e.g., a SAR-output in a non-lose media, will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

➤ Data Evaluation

The DASY post-processing software (SEMCAD) automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe Parameters:	- Sensitivity	Norm _i , a _{i0} , a _{i1} , a _{i2}
	- Conversion	ConvF _i
	- Diode compression point	dcp _i
Device Parameters:	- Frequency	f
	- Crest	cf
Media Parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multi-meter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

With V_i = compensated signal of channel i, (i = x, y, z)
 U_i = input signal of channel i, (i = x, y, z)
 cf = crest factor of exciting field (DASY parameter)
 dcp_i = diode compression point (DASY parameter)

From the compensated input signals, the primary field data for each channel can be evaluated:

$$\text{E- Field Probes: } E_i = \sqrt{\frac{V_i}{\text{Norm}_i \cdot \text{ConvF}}}$$

$$\text{H-Field Probes: } H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

With V_i = compensated signal of channel i, (i = x, y, z)
 Norm_i = sensor sensitivity of channel i, (i = x, y, z), $\mu\text{V}/(\text{V/m})^2$
 ConvF = sensitivity enhancement in solution
 a_{ij} = sensor sensitivity factors for H-field probes
 f = carrier frequency (GHz)
 E_i = electric field strength of channel i in V/m
 H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

With SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in (mho/m) or (Siemens/m)
 ρ = equipment tissue density in g/cm^3

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

8.9 Test Equipment List

Manufacturer	Equipment Description	Model	Management Number	Cal. Information	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	WXJ023	05.18.2023	05.17.2026
SPEAG	835MHz System Validation Kit	D835V2	WXJ023-1	06.08.2022	06.07.2025
SPEAG	1750MHz System Validation Kit	D1750V2	WXJ023-6	01.17.2024	01.16.2027
SPEAG	1900MHz System Validation Kit	D1900V2	WXJ023-2	06.07.2022	06.06.2025
SPEAG	2450MHz System Validation Kit	D2450V2	WXJ023-3	06.06.2022	06.05.2025
SPEAG	2600MHz System Validation Kit	D2600V2	WXJ023-4	10.28.2021	10.27.2024
SPEAG	5GHz System Validation Kit	D5GHZV2	WXJ023-14	01.16.2024	01.15.2027
SPEAG	Data Acquisition Electronics	DAE4	WXJ021	11.27.2023	11.26.2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	WXJ022-1	01.29.2024	01.28.2025
SPEAG	DASY 52 Measurement Software	DASY 52	Version 52.10.4.1527	N.C.R	N.C.R
SPEAG	DASY 52 File Conversion Software	SEMCAD X	Version 14.6.14 (7501)	N.C.R	N.C.R
SPEAG	Robot Controller	CS8Cspeag-TX60	WXG023-1	N.C.R	N.C.R
SPEAG	Phantom	Twin SAM V5.0	WXG023-4	N.C.R	N.C.R
SPEAG	Phantom	2mm Oval Phantom ELI5	WXG023-5	N.C.R	N.C.R
SPEAG	Phone Positioner	N/A	WXG023-6	N.C.R	N.C.R
St?ubli	Robot	TX60Lspeag	WXG023-3	N.C.R	N.C.R
Anritsu	Universal Radio Communication Analyzer	MT8820C	WXJ008-5	01.10.2023	01.09.2025
R&S	Universal Radio Communication Tester	CMU200	WXJ008-2	12.27.2023	12.26.2025
KEYSIGHT	Network Analyzer	E5071C	WXJ091	12.27.2023	12.26.2024
KEYSIGHT	EPM Series Power Meter	N1914A	WXJ075	06.11.2024	06.10.2025
KEYSIGHT	E-Series Power Sensor	E9300H	WXJ075-1	06.11.2024	06.10.2025
KEYSIGHT	E-Series Power Sensor	E9300H	WXJ075-2	06.11.2024	06.10.2025
KEYSIGHT	Signal Generator	N5173B	WXJ006-3	09.09.2024	09.08.2025
Huber Suhner	RF Cable	SUCOFLEX	WXG008-13	See Note 3	
Huber Suhner	RF Cable	SUCOFLEX	WXG008-14	See Note 3	
Huber Suhner	RF Cable	SUCOFLEX	WXG008-15	See Note 3	
Weinschel	Attenuator	23-3-34	WXG008-16	See Note 3	
Anritsu	Directional Coupler	MP654A	WXG008-17	See Note 3	
SPEAG	Dielectric Assessment Kit	3.5 Probe	WXG008-7	See Note 4	
SPEAG	DAK Measurement Software	DAK	Version: DAK 3.5	N.C.R	
TXC	Broadband Amplifier	BBA018000	WXG008-11	See Note 5	

Note:

1. The calibration certificate of DASY can be referred to appendix C of this report.
2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The Insertion Loss calibration of Dual Directional Coupler and Attenuator were characterized via the network analyzer and compensated during system check.
4. The dielectric probe kit was calibrated via the network analyzer, with the specified procedure (calibrated in pure water) and calibration kit (standard) short circuit, before the dielectric measurement. The specific procedure and calibration kit are provided by Speag.
5. In system check we need to monitor the level on the spectrum analyzer, and adjust the power amplifier level to have precise power level to the dipole; the measured SAR will be normalized to 1 W input power according to the ratio of 1 W to the input power to the dipole. For system check, the calibration of the power amplifier is deemed not critically required for correct measurement; the spectrum analyzer is critical and we do have calibration for it
6. Attenuator insertion loss is calibrated by the network Analyzer, which the calibration is valid, before system check.

7. N.C.R means No Calibration Requirement.

9 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. 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, which is shown in Fig. 9.1, for body SAR testing, the liquid height from the center of the flat phantom to liquid top surface is larger than 15 cm, which is shown in Fig. 9.2.



Fig. 9.1 Photo of Liquid Height for Head SAR

Fig. 9.2 Photo of Liquid Height for Body SAR

The relative permittivity and conductivity of the tissue material should be within $\pm 5\%$ of the values given in the table below recommended by the FCC OET 65 supplement C and RSS 102 Issue 5.

Target Frequency (MHz)	ϵ_r	σ (S/m)
150	52.3	0.76
300	45.3	0.87
450	43.5	0.87
835	41.5	0.90
900	41.5	0.97
915	41.5	0.98
1450	40.5	1.20
1610	40.3	1.29
1800-2000	40.0	1.40
2450	39.2	1.80
3000	38.5	2.40
5800	35.3	5.27

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000 \text{ kg/m}^3$)

The dielectric parameters of liquids were verified prior to the SAR evaluation using a Speag Dielectric Probe Kit and an Agilent Network Analyzer.

The following table shows the measuring results for simulating liquid.

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target(σ)	Permittivity Target(ϵ_r)	Delta (σ)%	Delta (ϵ_r)%	Limit (%)	Date (mm/dd/yy)
750	21.3	0.87	40.67	0.89	41.90	-2.25	-2.94	±5	09.03.2024
835	21.5	0.90	40.47	0.90	41.50	0.00	-2.48	±5	09.07.2024
1750	21.4	1.33	38.92	1.37	40.10	-2.92	-2.94	±5	09.14.2024
1900	21.9	1.42	38.71	1.40	40.00	1.43	-3.23	±5	09.17.2024
2450	22.0	1.81	37.92	1.80	39.20	0.56	-3.27	±5	09.21.2024
2600	22.0	1.93	37.66	1.96	39.00	-1.53	-3.44	±5	09.21.2024
5200	22.1	4.50	35.99	4.66	36.00	-3.43	-0.03	±5	09.25.2024
5800	22.1	5.14	34.95	5.27	35.30	-2.47	-0.99	±5	09.25.2024

10 SAR System Verification

Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

➤ Purpose of System Performance 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.

➤ System 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:

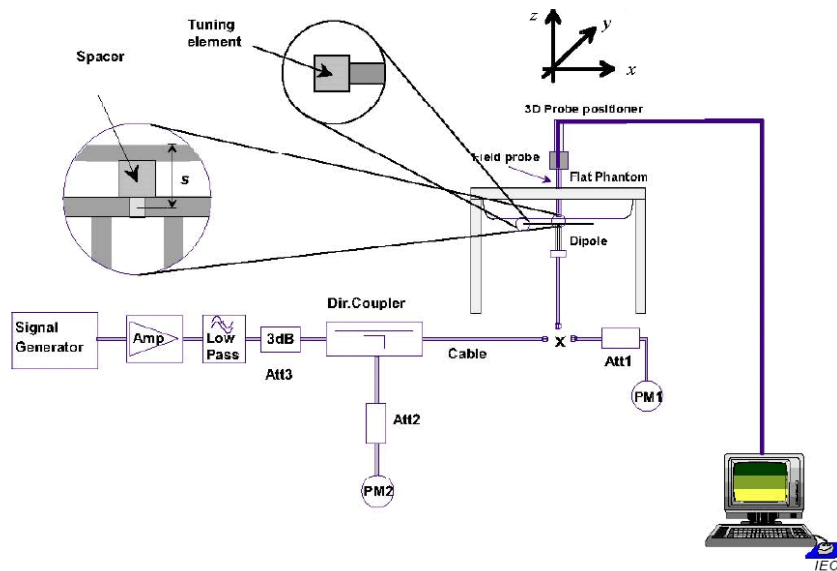


Fig.10.1 System Verification Setup Diagram

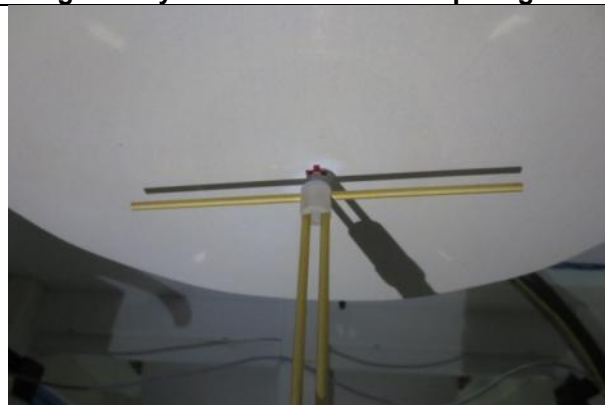


Fig.10.2 Photo of Dipole setup

➤

➤ **System Verification Results**

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10%. The table as below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix C of this report.

Date (mm/dd/yy)	Frequency (MHz)	Power fed onto dipole (mW)	Measured 1g SAR (W/kg)	Normalized to 1W 1g SAR (W/kg)	1W Target 1g SAR (W/kg)	Deviation (%)
09.03.2024	750	80	0.705	8.81	8.55	3.04
09.07.2024	835	80	0.786	9.83	9.6	2.40
09.14.2024	1750	40	1.420	35.50	36.5	-2.74
09.17.2024	1900	40	1.580	39.50	39.9	-1.00
09.21.2024	2450	40	2.120	53.00	53.4	-0.75
09.21.2024	2600	40	2.260	56.50	55.3	2.17
09.25.2024	5200	40	3.150	78.75	77.00	2.27
09.25.2024	5800	40	3.210	80.25	78.90	1.71

11 EUT Testing Position

This EUT was tested in ten different positions. They are right cheek/right tilted/left cheek/left tilted for head, Front/Back/Left Side/Right Side/Top Side/Bottom Side of the EUT with phantom 10 mm gap, as illustrated below, please refer to Appendix B for the test setup photos.

11.1 Handset Reference Points

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



Fig.11.1 Illustration for Front, Back and Side of SAM Phantom

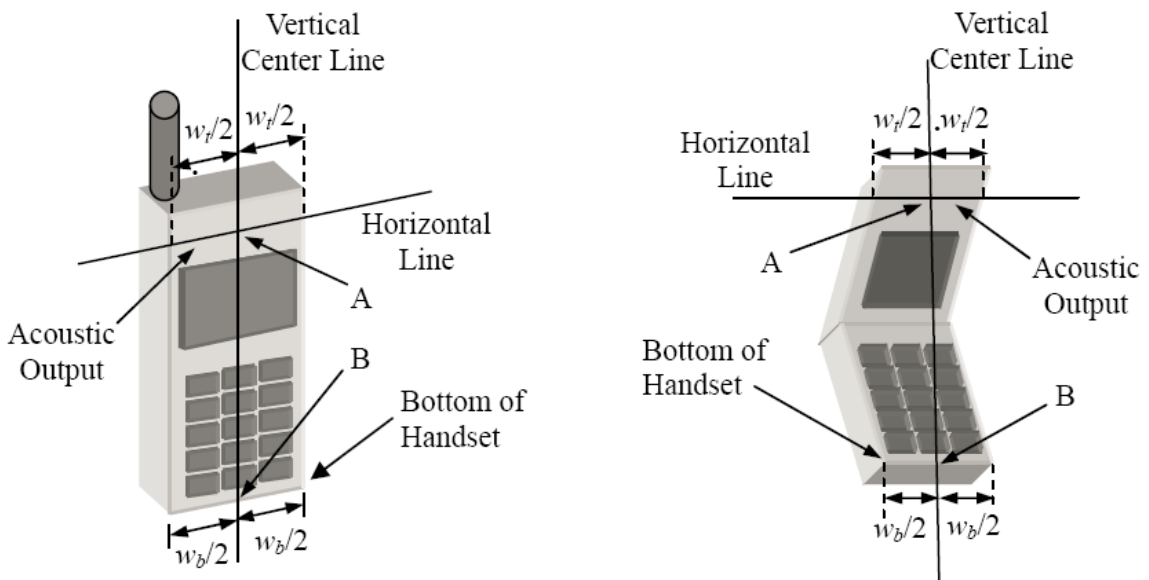


Fig. 11.2 Illustration for Handset Vertical and Horizontal Reference Lines

11.2 Positioning for Cheek / Touch

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



Fig. 11.3 Illustration for Cheek Position

11.3 Positioning for Ear / 15o Tilt

- To position the device in the “cheek” position described above.
- 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 (see figure below).



Fig.11.4 Illustration for Tilted Position

11.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04v01r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR locations identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

11.5 Body Worn Accessory Configurations

- To position the device parallel to the phantom surface with either keypad up or down.
- To adjust the device parallel to the flat phantom.
- To adjust the distance between the device surface and the flat phantom to 10 mm or holster surface and the flat phantom to 0 mm.

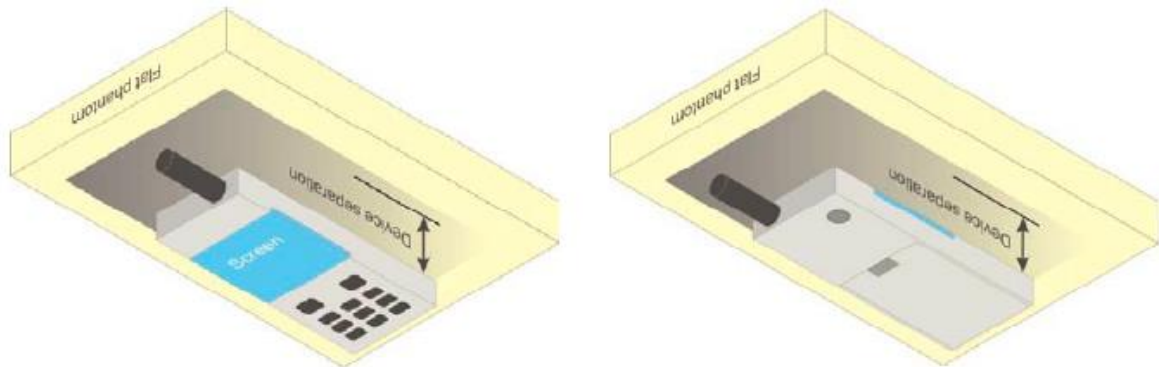


Fig.11.5 Illustration for Body Worn Position

11.6 Wireless Router (Hotspot) Configurations

Some battery-operated handsets have the capability to transmit and receive internet connectivity through simultaneous transmission of WIFI in conjunction with a separate licensed transmitter. The FCC has provided guidance in KDB Publication 941225 D06 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. Therefore, SAR must be evaluated for each frequency transmission and mode separately and summed with the WIFI transmitter according to KDB 648474 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

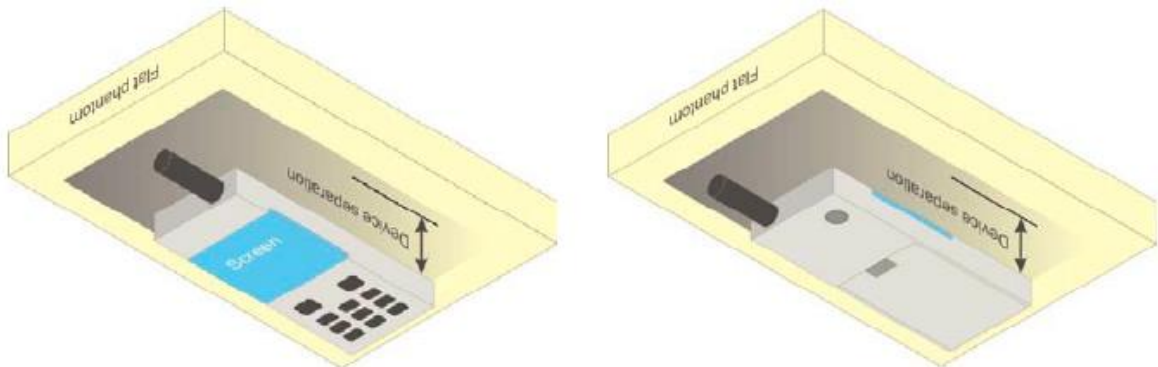


Fig.11.6 Illustration for Hotspot Position

12 Measurement Procedures

The measurement procedures are as below:

<Conducted power measurement>

- For WWAN power measurement, use base station simulator to configure EUT WWAN transition in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- Read the WWAN RF power level from the base station simulator.
- For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- Connect EUT RF port through RF cable to the power meter or spectrum analyzer, and measure WLAN/BT output power.

<Conducted power measurement>

- Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- Place the EUT in positions as Appendix B demonstrates.
- Set scan area, grid size and other setting on the DASY software.
- Measure SAR results for the highest power channel on each testing position.
- Find out the largest SAR result on these testing positions of each band.
- Measure SAR results for other channels in worst SAR testing position if the Reported SAR or highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- Power reference measurement
- Area scan
- Zoom scan
- Power drift measurement

12.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a “cube” measurement. The measured volume must include the 1g and 10 g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- Extraction of the measured data (grid and values) from the Zoom Scan.
- Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).
- Generation of a high-resolution mesh within the measured volume.
- Interpolation of all measured values from the measurement grid to the high-resolution grid
- Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- Calculation of the averaged SAR within masses of 1g and 10g.

12.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

12.3 Area & Zoom Scan Procedures

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 10g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 mm ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm 3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5 · $\Delta z_{Zoom}(n-1)$ mm
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details. * When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.			

12.4 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remains in the same test position for all measurements and all volume scans use the same spatial resolution and grid spacing. When all volume scans are completed, the software, SEMCAD post-processor scans combine and subsequently superpose these measurement data to calculate the multiband SAR.

12.5 SAR Averaged Methods

In DASYS, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1g and 10g cubes, the extrapolation distance should not be larger than 5 mm.

12.6 Power Drift Monitoring

All SAR testing is under the EUT with a full charged battery and transmit maximum output power. In DASYS measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

13 Conducted RF Output Power

13.1 GSM Conducted Power

Band: GSM 850 Channel	Burst Average Power (dBm)			Frame-Average Power(dBm)		
	128	190	251	128	190	251
Frequency (MHz)	824.2	836.6	848.8	824.2	836.6	848.8
GSM (GMSK, Voice)	34.39	34.44	34.46	25.36	25.41	25.43
GPRS (GMSK, 1 TX slot)	34.45	34.47	34.49	25.42	25.44	25.46
GPRS (GMSK, 2 TX slots)	32.15	32.39	32.46	26.13	26.37	26.44
GPRS (GMSK, 3 TX slots)	30.19	30.42	30.51	25.93	26.16	26.25
GPRS (GMSK, 4 TX slots)	28.10	28.32	28.38	25.09	25.31	25.37
EGPRS (8PSK, 1 TX slot)	27.76	27.85	27.46	18.73	18.82	18.43
EGPRS (8PSK, 2 TX slots)	26.68	26.82	26.42	20.66	20.80	20.40
EGPRS (8PSK, 3 TX slots)	24.34	24.48	24.08	20.08	20.22	19.82
EGPRS (8PSK, 4 TX slots)	22.16	22.23	21.78	19.15	19.22	18.77

Remark:

- The frame-averaged power is linearly reported the maximum burst averaged power over 8 time slots. The calculated method are shown as below:
The duty cycle "x" of different time slots as below:
1 TX slot is 1/8, 2 TX slots is 2/8, 3 TX slots is 3/8 and 4 TX slots is 4/8
Based on the calculation formula:
Frame-averaged power = Burst averaged power + 10 log (x)
So,
Frame-averaged power (1 TX slot) = Burst averaged power (1 TX slot)– 9.03
Frame-averaged power (2 TX slots) = Burst averaged power (2 TX slots)– 6.02
Frame-averaged power (3 TX slots) = Burst averaged power (3 TX slots)– 4.26
Frame-averaged power (4 TX slots) = Burst averaged power (4 TX slots) – 3.01
- CS1 coding scheme was used in GPRS conducted power measurements and SAR testing, MCS5 coding scheme was used in EGPRS conducted power measurements and SAR testing (if necessary).

Note:

- For Head SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in GSM 850 Voice mode.
- For Body worn SAR testing and Hotspot mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 2 TX slots mode due to the highest frame-averaged power.
- For GPRS multi time slots SAR measurement, when the measured maximum output power levels are within 0.25 dB of each other, test the configuration with the most number of time slots.
- Per KDB447498 D04v01, the maximum output power channel is used for SAR testing and for further SAR test reduction.

Band: PCS 1900 Channel	Burst Average Power (dBm)			Frame-Average Power(dBm)		
	512	661	810	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8
GSM (GMSK, Voice)	30.86	31.50	31.40	21.83	22.47	22.37
GPRS (GMSK, 1 TX slot)	30.88	31.49	31.47	21.85	22.46	22.44
GPRS (GMSK, 2 TX slots)	28.70	29.24	29.02	22.68	23.22	23.00
GPRS (GMSK, 3 TX slots)	27.10	27.66	27.49	22.84	23.40	23.23
GPRS (GMSK, 4 TX slots)	25.03	25.62	25.47	22.02	22.61	22.46
EGPRS (8PSK, 1 TX slot)	26.95	27.75	27.07	17.92	18.72	18.04
EGPRS (8PSK, 2 TX slots)	25.23	25.95	25.44	19.21	19.93	19.42
EGPRS (8PSK, 3 TX slots)	23.19	24.18	23.70	18.93	19.92	19.44
EGPRS (8PSK, 4 TX slots)	21.23	22.23	21.68	18.22	19.22	18.67

Remark:

- The frame-averaged power is linearly reported the maximum burst averaged power over 8 time slots. The calculated method are shown as below:
The duty cycle "x" of different time slots as below:
1 TX slot is 1/8, 2 TX slots is 2/8, 3 TX slots is 3/8 and 4 TX slots is 4/8
Based on the calculation formula:
Frame-averaged power = Burst averaged power + 10 log (x)
So,
Frame-averaged power (1 TX slot) = Burst averaged power (1 TX slot)– 9.03
Frame-averaged power (2 TX slots) = Burst averaged power (2 TX slots)– 6.02
Frame-averaged power (3 TX slots) = Burst averaged power (3 TX slots)– 4.26
Frame-averaged power (4 TX slots) = Burst averaged power (4 TX slots) – 3.01
- CS1 coding scheme was used in GPRS conducted power measurements and SAR testing, MCS5 coding scheme was used in EGPRS conducted power measurements and SAR testing (if necessary).

Note:

- For Head SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in PCS 1900 Voice mode.
- For Body worn SAR testing and Hotspot mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 3 TX slots mode due to the highest frame-averaged power.
- Per KDB447498 D04v01, the maximum output power channel is used for SAR testing and for further SAR test reduction.

13.2 WCDMA Conducted Power

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Rohde & Schwarz CMU200 referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table 1

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1: $\Delta_{ACK}, \Delta_{NACK}$ and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$
 Note 2: CM = 1 for $\beta_c/\beta_d = 12/15, \beta_{hs}/\beta_c = 24/15$.
 Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

HSDPA Sub-test setup configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Rohde & Schwarz CMU200 referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table 2

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: $\Delta_{ACK}, \Delta_{NACK}$ and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15, \beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

HSUPA Sub-test setup configuration

WCDMA Conducted Power:

WCDMA Average power (dBm)			
Band	WCDMA Band II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
AMR 12.2 kbps	22.77	23.52	23.66
RMC 12.2 kbps	22.91	23.55	23.69
HSDPA Sub-test 1	22.21	22.77	22.77
HSDPA Sub-test 2	21.99	22.43	22.45
HSDPA Sub-test 3	21.80	22.31	22.34
HSDPA Sub-test 4	21.88	22.34	22.39
HSUPA Sub-test 1	19.94	20.73	20.93
HSUPA Sub-test 2	20.58	21.09	21.17
HSUPA Sub-test 3	20.31	20.86	21.05
HSUPA Sub-test 4	20.63	21.20	21.30
HSUPA Sub-test 5	22.30	22.86	22.88

WCDMA Average power (dBm)			
Band	WCDMA Band IV		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
AMR 12.2 kbps	23.24	23.25	23.20
RMC 12.2 kbps	23.29	23.35	23.39
HSDPA Sub-test 1	22.27	22.67	22.50
HSDPA Sub-test 2	22.42	22.73	22.51
HSDPA Sub-test 3	22.41	22.71	22.54
HSDPA Sub-test 4	22.44	22.75	22.58
HSUPA Sub-test 1	22.29	22.68	22.49
HSUPA Sub-test 2	22.41	22.69	22.59
HSUPA Sub-test 3	22.19	22.51	22.37
HSUPA Sub-test 4	22.47	22.81	22.64
HSUPA Sub-test 5	22.53	22.84	22.66

WCDMA Average power (dBm)			
Band	WCDMA Band V		
Channel	4132	4183	4233
Frequency (MHz)	826.4	836.6	846.6
AMR 12.2 kbps	23.35	23.48	23.35
RMC 12.2 kbps	23.36	23.50	23.36
HSDPA Sub-test 1	22.37	22.38	22.35
HSDPA Sub-test 2	22.23	22.49	22.16
HSDPA Sub-test 3	21.67	21.83	21.85
HSDPA Sub-test 4	21.73	21.83	21.88
HSUPA Sub-test 1	20.47	20.73	20.57
HSUPA Sub-test 2	20.76	20.96	20.80
HSUPA Sub-test 3	20.44	20.70	20.50
HSUPA Sub-test 4	20.37	20.61	20.44
HSUPA Sub-test 5	22.68	22.90	22.88

Note:

1. Applying the subtest setup in Table C.11.1.3 of 3GPP TS 34.121-1
2. Per KDB 941225 D01, RMC 12.2kbps mode is used to evaluate SAR due the highest output power. If AMR 12.2 kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2 kbps can be excluded.
3. AMR, HSDPA RF power will not be larger than RMC 12.2kbps, detailed information is included in Tune-up Procure exhibit.

13.3 LTE Conducted Power

13.3.1 Largest channel bandwidth standalone SAR test requirements

QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.⁸ When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

QPSK with 50% RB allocation

The procedures required for 1 RB allocation in section 4.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.⁹

QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in sections 4.2.1 and 4.2.2 are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 4.2.1, 5.2.2 and 4.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> ?$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

13.3.2 Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 4.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> ?$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth. For example, 50 RB in 10 MHz channel bandwidth does not apply to 5 MHz channel bandwidth; therefore, this cannot be tested in the smaller channel bandwidth. However, 50% RB allocation in 10 MHz channel bandwidth is equivalent to 100% RB allocation in 5 MHz channel bandwidth; therefore, these are the equivalent configurations to be compared to determine the specific channel and configuration in the smaller channel bandwidth that need SAR testing.

13.3.3 TDD LTE configuration setup for SAR measurement

According to KDB 941225 D05v02r03 and April 2013 TCB workshop slides, SAR must be tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- see 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions and must be taken into consideration to determine the transmission duty factor
 - according to the worst case uplink and downlink cyclic prefix requirements for UpPTS to determine the highest SAR test duty factor

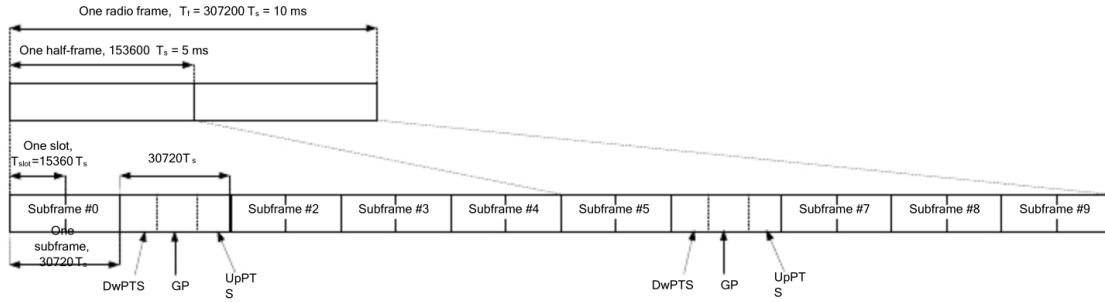


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink		Extended cyclic prefix in downlink			
	DwPTS	UpPTS	DwPTS	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink	
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			-		
8	$24144 \cdot T_s$			-		

Per 3GPP 36.211 section 4.2, each radio frame of length $T_f=37200 \cdot T_s = 10$ ms consists of two half-frames of length $153600 \cdot T_s = 5$ ms each. Each half-frame consists of five subframes of length $30720 \cdot T_s = 1$ ms. So, the uplink duty factor in special subframe as below:

Special Subframe configuration	Normal cyclic prefix in downlink		Extended cyclic prefix in downlink	
	Duty factor of Uplink		Duty factor of Uplink	
	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	7.14%	8.33%	7.14%	8.33%
1	7.14%	8.33%	7.14%	8.33%
2	7.14%	8.33%	7.14%	8.33%
3	7.14%	8.33%	7.14%	8.33%
4	7.14%	8.33%	14.27%	16.67%
5	14.27%	16.67%	14.27%	16.67%
6	14.27%	16.67%	14.27%	16.67%
7	14.27%	16.67%	14.27%	16.67%
8	14.27%	16.67%	/	/
9	14.27%	16.67%	/	/

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

According to above table:

1. The highest duty factor is configuration 0;
2. The duty factor of uplink in one half-frame with normal cyclic prefix is: $(3\text{ms} + 0.143\text{ms})/5\text{ms}=62.86\%$;
3. The duty factor of uplink in one half-frame with extended cyclic prefix is: $(3\text{ms} + 0.167\text{ms})/5\text{ms}=63.34\%$;
4. For purpose to get the worst case SAR test duty factor, the duty factor of normal cyclic prefix in uplink scaled-up to the extended cyclic prefix in uplink, the scaling factor is $63.34\%/62.86\%=1.008$, and the scaling factor will be taken into the final measured SAR.

LTE Band 2 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
Band 2	1.4	QPSK	1	0	22.55	23.17	23.43
			1	2	22.55	23.17	23.47
			1	5	22.59	23.23	23.43
			3	0	22.70	23.09	23.66
			3	1	22.67	23.08	23.63
			3	2	22.63	23.07	23.71
			6	0	22.12	22.44	23.18
		16QAM	1	0	21.77	22.54	22.49
			1	2	21.79	22.61	22.57
			1	5	21.90	22.58	22.51
			3	0	21.29	21.75	22.59
			3	1	21.26	21.77	22.63
			3	2	21.19	21.75	22.60
			6	0	20.67	21.33	21.82

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18615	18900	19185
					1851.5MHz	1880.0MHz	1908.5MHz
Band 2	3	QPSK	1	0	22.60	23.04	23.41
			1	7	22.65	23.00	23.49
			1	14	22.55	22.95	23.54
			8	0	22.14	22.60	22.95
			8	4	22.21	22.62	22.98
			8	7	22.03	22.54	23.15
			15	0	22.24	22.58	23.06
		16QAM	1	0	21.37	21.90	22.52
			1	7	21.27	21.88	22.58
			1	14	21.16	21.90	22.54
			8	0	20.85	21.29	21.76
			8	4	20.86	21.30	21.76
			8	7	20.79	21.32	21.87
			15	0	20.66	21.24	21.57

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18625	18900	19175
					1852.5MHz	1880.0MHz	1907.5MHz
Band 2	5	QPSK	1	0	22.62	23.15	23.51
			1	12	22.46	23.06	23.58
			1	24	22.56	23.05	23.65
			12	0	22.14	22.73	23.11
			12	6	22.21	22.62	23.05
			12	11	22.21	22.63	23.06
			25	0	22.17	22.68	23.04
		16QAM	1	0	21.93	21.49	22.43
			1	12	21.85	21.44	22.60
			1	24	21.88	21.43	22.69
			12	0	20.85	21.17	21.63
			12	6	20.79	21.15	21.64
			12	11	20.91	21.15	21.64
			25	0	20.76	21.26	21.54

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18650	18900	19150
					1855.0MHz	1880.0MHz	1905.0MHz
Band 2	10	QPSK	1	0	22.48	23.02	23.26
			1	24	22.43	23.06	23.48
			1	49	22.50	23.01	23.61
			25	0	22.18	22.67	22.97
			25	12	22.04	22.69	23.01
			25	24	22.17	22.70	23.02
			50	0	22.09	22.53	22.91
		16QAM	1	0	21.66	22.05	21.95
			1	24	21.55	21.97	22.15
			1	49	21.62	21.90	22.26
			25	0	20.79	21.21	21.65
			25	12	20.79	21.22	21.59
			25	24	20.79	21.23	21.66
			50	0	20.77	21.21	21.60

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18675	18900	19125
					1857.5MHz	1880.0MHz	1902.5MHz
Band 2	15	QPSK	1	0	22.55	23.14	23.02
			1	37	22.58	23.10	23.24
			1	74	22.63	23.09	23.49
			36	0	22.14	22.65	22.85
			36	16	22.13	22.64	22.72
			36	35	22.13	22.64	22.69
			75	0	22.04	22.56	22.89
		16QAM	1	0	21.82	21.98	22.19
			1	37	21.84	21.85	22.51
			1	74	21.85	21.90	22.70
			36	0	20.71	21.27	21.47
			36	16	20.71	21.22	21.39
			36	35	20.71	21.22	21.39
			75	0	20.80	21.16	21.49

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18700	18900	19100
					1860.0MHz	1880.0MHz	1900.0MHz
Band 2	20	QPSK	1	0	22.83	23.26	23.31
			1	49	22.71	23.16	23.46
			1	99	22.80	23.15	23.88
			50	0	22.03	22.67	22.71
			50	24	21.97	22.74	22.60
			50	49	21.97	22.68	22.61
			100	0	22.18	22.70	22.71
		16QAM	1	0	22.05	22.01	22.59
			1	49	22.09	21.91	22.68
			1	99	22.12	21.96	23.11
			50	0	20.56	21.37	21.22
			50	24	20.58	21.38	21.24
			50	49	20.69	21.33	21.25
			100	0	20.71	21.18	21.34

LTE Band 5 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20407	20525	20643
					824.7MHz	836.5MHz	848.3MHz
Band 5	1.4	QPSK	1	0	23.35	23.48	23.47
			1	2	23.37	23.50	23.57
			1	5	23.37	23.48	23.47
			3	0	23.41	23.51	23.49
			3	1	23.41	23.49	23.52
			3	2	23.41	23.37	23.51
		16QAM	6	0	22.79	23.03	22.85
			1	0	23.42	22.65	23.22
			1	2	23.42	22.63	23.05
			1	5	23.50	22.55	23.15
			3	0	22.10	22.27	22.18
			3	1	22.07	22.27	22.17
			3	2	22.12	22.15	22.17
			6	0	21.55	21.47	21.49

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
Band 5	3	QPSK	1	0	23.42	23.55	23.49
			1	7	23.41	23.62	23.47
			1	14	23.46	23.60	23.33
			8	0	22.79	22.94	23.04
			8	4	22.87	22.91	23.08
			8	7	22.95	23.14	22.88
			15	0	22.95	22.92	23.01
		16QAM	1	0	22.51	22.84	22.79
			1	7	22.56	22.87	22.76
			1	14	22.55	22.88	22.64
			8	0	21.50	21.59	21.49
			8	4	21.50	21.64	21.49
			8	7	21.95	21.45	21.47
			15	0	21.30	21.43	21.39

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20425	20525	20625
					826.5MHz	836.5MHz	846.5MHz
Band 5	5	QPSK	1	0	23.32	23.58	23.38
			1	12	23.41	23.63	23.48
			1	24	23.47	23.68	23.34
			12	0	23.00	23.07	22.83
			12	6	22.85	23.10	22.82
			12	11	22.85	23.11	22.82
			25	0	23.00	23.01	23.06
		16QAM	1	0	23.02	22.74	22.33
			1	12	23.07	22.79	22.34
			1	24	23.20	22.79	22.26
			12	0	21.40	21.36	21.39
			12	6	21.40	21.37	21.39
			12	11	21.40	21.37	21.39
			25	0	21.91	21.43	21.58

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20450	20525	20600
					829MHz	836.5MHz	844MHz
Band 5	10	QPSK	1	0	23.23	23.47	23.51
			1	24	23.31	23.50	23.46
			1	49	23.38	23.56	23.44
			25	0	22.82	23.10	23.02
			25	12	23.02	23.07	22.91
			25	24	22.96	23.09	22.88
			50	0	22.92	23.05	23.02
		16QAM	1	0	22.61	23.41	22.99
			1	24	22.86	23.37	22.91
			1	49	22.80	23.55	22.92
			25	0	22.04	21.54	21.43
			25	12	22.03	21.55	21.41
			25	24	22.05	21.56	21.51
			50	0	21.55	21.42	21.39

LTE Band 7 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20775	21100	21425
					2502.5MHz	2535MHz	2567.5MHz
Band 7	5	QPSK	1	0	23.89	23.28	23.13
			1	12	23.85	23.22	23.11
			1	24	23.86	23.16	23.09
			12	0	23.43	22.74	22.74
			12	6	23.52	22.80	22.66
			12	11	23.52	22.69	22.66
			25	0	23.47	22.71	22.62
		16QAM	1	0	22.93	22.27	22.57
			1	12	22.98	22.32	22.58
			1	24	23.08	22.30	22.60
			12	0	21.98	21.28	21.28
			12	6	21.97	21.32	21.30
			12	11	21.99	21.35	21.20
			25	0	22.13	21.43	21.12

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20800	21100	21400
					2505MHz	2535MHz	2565MHz
Band 7	10	QPSK	1	0	23.80	23.21	23.08
			1	24	23.80	23.13	23.08
			1	49	23.87	23.17	23.10
			25	0	23.44	22.62	22.64
			25	12	23.49	22.73	22.69
			25	24	23.48	22.73	22.70
			50	0	23.45	22.80	22.70
		16QAM	1	0	22.94	22.58	22.28
			1	24	23.03	22.64	22.31
			1	49	23.11	22.67	22.30
			25	0	22.07	21.35	21.36
			25	12	22.06	21.28	21.35
			25	24	22.05	21.38	21.37
			50	0	22.04	21.46	21.29

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20825	21100	21375
					2507.5MHz	2535MHz	2562.5MHz
Band 7	15	QPSK	1	0	23.84	23.01	23.26
			1	37	23.89	23.14	23.21
			1	74	23.96	23.06	23.20
			36	0	23.33	22.67	22.63
			36	16	23.44	22.80	22.70
			36	35	23.37	22.70	22.72
			75	0	23.45	22.74	22.62
		16QAM	1	0	23.77	22.60	23.06
			1	37	23.80	22.67	23.09
			1	74	23.84	22.66	23.07
			36	0	22.11	21.45	21.42
			36	16	22.00	21.45	21.30
			36	35	22.03	21.46	21.35
			75	0	22.04	21.38	21.30

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20850	21100	21350
					2510MHz	2535MHz	2560MHz
Band 7	20	QPSK	1	0	23.90	23.45	23.25
			1	49	23.97	23.38	23.29
			1	99	24.01	23.47	23.24
			50	0	23.34	22.82	22.68
			50	24	23.44	22.85	22.74
			50	49	23.40	22.85	22.65
			100	0	23.38	22.86	22.64
		16QAM	1	0	23.64	22.68	23.02
			1	49	23.67	22.67	22.99
			1	99	23.80	22.74	23.07
			50	0	22.03	21.48	21.32
			50	24	22.04	21.48	21.34
			50	49	22.05	21.49	21.35
			100	0	22.08	21.40	21.34

LTE Band 12 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23017	23095	23175
					699.7MHz	707.5MHz	715.3MHz
Band 12	1.4	QPSK	1	0	23.17	23.26	23.29
			1	2	23.27	23.30	23.47
			1	5	23.22	23.44	23.49
			3	0	23.41	23.43	23.33
			3	1	23.41	23.43	23.37
			3	2	23.41	23.44	23.39
			6	0	22.86	22.92	22.94
		16QAM	1	0	23.38	21.89	22.83
			1	2	23.29	21.92	22.52
			1	5	23.34	21.94	22.61
			3	0	22.49	22.14	22.64
			3	1	22.48	22.11	22.65
			3	2	22.48	22.06	22.65
			6	0	21.98	21.70	21.72

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23025	23095	23165
					700.5MHz	707.5MHz	714.5MHz
Band 12	3	QPSK	1	0	23.28	23.38	23.20
			1	7	23.26	23.47	23.22
			1	14	23.35	23.51	23.42
			8	0	22.76	22.82	22.71
			8	4	22.74	22.86	22.76
			8	7	23.26	22.88	23.03
			15	0	22.76	22.84	22.85
		16QAM	1	0	22.45	22.12	22.45
			1	7	22.48	22.24	22.52
			1	14	22.42	22.22	22.28
			8	0	21.84	21.38	21.68
			8	4	21.83	21.46	21.70
			8	7	21.86	21.68	21.69
			15	0	21.63	21.74	21.71

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23035	23095	23155
					701.5MHz	707.5MHz	713.5MHz
Band 12	5	QPSK	1	0	23.26	23.35	23.37
			1	12	23.30	23.51	23.24
			1	24	23.27	23.46	23.38
			12	0	22.73	22.88	22.93
			12	6	22.73	22.82	22.71
			12	11	22.72	22.82	22.72
			25	0	23.27	22.91	22.74
		16QAM	1	0	22.60	21.93	21.57
			1	12	22.64	21.89	22.10
			1	24	22.75	21.95	21.83
			12	0	21.75	21.20	21.69
			12	6	21.74	21.22	21.67
			12	11	21.72	21.22	21.70
			25	0	21.72	21.68	21.89

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23060	23095	23130
					704MHz	707.5MHz	711MHz
Band 12	10	QPSK	1	0	23.20	23.40	23.24
			1	24	23.35	23.41	23.32
			1	49	23.44	23.55	23.35
			25	0	23.16	22.88	22.85
			25	12	23.27	22.93	22.89
			25	24	23.27	22.85	22.90
			50	0	22.93	22.93	22.81
		16QAM	1	0	22.32	23.07	22.24
			1	24	22.39	22.87	22.15
			1	49	21.98	22.83	22.43
			25	0	21.86	21.34	21.65
			25	12	21.86	21.53	21.79
			25	24	21.86	21.37	21.73
			50	0	21.70	21.81	21.30

LTE Band 66 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131979	132322	132665
					1710.70MHz	1745.00MHz	1779.3MHz
Band 66	1.4	QPSK	1	0	23.81	24.13	23.93
			1	2	23.78	24.04	23.93
			1	5	23.82	24.02	23.99
			3	0	23.98	23.98	23.89
			3	1	23.89	23.98	23.89
			3	2	23.88	23.98	23.90
			6	0	23.41	23.51	23.35
		16QAM	1	0	23.82	22.88	22.68
			1	2	23.89	22.91	22.83
			1	5	23.86	22.95	22.87
			3	0	22.67	22.58	22.97
			3	1	22.62	22.58	22.97
			3	2	22.66	22.58	22.97
			6	0	22.26	22.21	22.20

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131987	132322	132657
					1711.50MHz	1745.00MHz	1778.50MHz
Band 66	3	QPSK	1	0	23.99	23.99	23.73
			1	7	23.92	23.93	23.75
			1	14	23.92	24.00	23.75
			8	0	23.39	23.41	23.29
			8	4	23.40	23.43	23.35
			8	7	23.42	23.52	23.39
			15	0	23.40	23.56	23.39
		16QAM	1	0	22.60	23.03	22.75
			1	7	22.61	23.04	22.75
			1	14	22.58	23.07	22.76
			8	0	22.19	22.14	22.03
			8	4	22.20	22.19	22.04
			8	7	22.20	22.26	22.07
			15	0	21.99	22.13	21.97

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131997	132322	132647
					1712.50MHz	1745.00MHz	1777.50MHz
Band 66	5	QPSK	1	0	23.77	24.06	23.80
			1	12	23.80	24.22	23.83
			1	24	23.84	24.34	23.81
			12	0	23.41	23.50	23.28
			12	6	23.44	23.52	23.32
			12	11	23.43	23.52	23.34
			25	0	23.45	23.51	23.34
		16QAM	1	0	23.14	23.02	22.29
			1	12	23.19	23.03	22.30
			1	24	23.15	23.16	22.25
			12	0	22.10	22.05	21.90
			12	6	22.08	22.03	21.95
			12	11	22.13	22.01	21.92
			25	0	22.08	22.16	22.03

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132022	132322	132622
					1715.00MHz	1745.00MHz	1775.00MHz
Band 66	10	QPSK	1	0	23.74	23.99	23.76
			1	24	23.80	24.06	23.69
			1	49	23.94	24.08	23.80
			25	0	23.51	23.49	23.33
			25	12	23.38	23.51	23.27
			25	24	23.38	23.51	23.28
			50	0	23.41	23.48	23.40
		16QAM	1	0	22.88	23.60	22.98
			1	24	22.91	23.70	22.93
			1	49	22.99	23.73	22.97
			25	0	22.07	22.03	21.92
			25	12	22.07	22.04	21.93
			25	24	22.09	22.04	21.94
			50	0	22.02	22.14	22.01

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132047	132322	132597
					1717.50MHz	1745.00MHz	1772.50MHz
Band 66	15	QPSK	1	0	23.77	24.01	23.78
			1	37	23.87	24.05	23.79
			1	74	23.97	24.17	23.79
			36	0	23.44	23.49	23.34
			36	16	23.46	23.50	23.28
			36	35	23.45	23.51	23.30
			75	0	23.44	23.43	23.39
		16QAM	1	0	23.10	23.66	22.91
			1	37	23.15	23.72	22.95
			1	74	23.27	23.72	23.08
			36	0	22.10	22.04	21.95
			36	16	22.10	22.04	21.97
			36	35	22.09	22.04	21.97
			75	0	22.12	22.09	21.97

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132072	132322	132572
					1720.00MHz	1745.00MHz	1770.00MHz
Band 66	20	QPSK	1	0	23.96	24.04	24.06
			1	49	24.09	24.05	23.98
			1	99	24.17	24.16	24.02
			50	0	23.34	23.51	23.36
			50	24	23.45	23.50	23.31
			50	49	23.45	23.49	23.32
			100	0	23.56	23.58	23.32
		16QAM	1	0	23.26	22.63	22.92
			1	49	23.36	22.72	22.91
			1	99	23.39	22.80	22.95
			50	0	22.00	22.03	22.01
			50	24	22.07	22.03	22.03
			50	49	22.03	22.03	22.04
			100	0	22.07	22.04	21.95

LTE Band 71 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					133147	133297	133447
					665.5MHz	680.5MHz	695.5MHz
Band 71	5	QPSK	1	0	23.21	23.00	22.88
			1	12	23.04	23.07	22.87
			1	24	23.57	23.13	22.87
			12	0	22.78	22.99	22.39
			12	6	22.82	23.02	22.31
			12	11	22.83	23.03	22.32
			25	0	22.49	22.99	22.34
		16QAM	1	0	21.92	22.63	22.11
			1	12	22.32	23.13	22.02
			1	24	22.33	22.71	22.54
			12	0	21.12	21.63	20.79
			12	6	21.13	21.59	20.74
			12	11	21.13	21.68	20.79
			25	0	21.65	21.57	20.89

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					133172	133297	133422
					668MHz	680.5MHz	693MHz
Band 71	10	QPSK	1	0	23.11	23.24	23.03
			1	24	23.42	23.20	22.93
			1	49	23.12	23.51	23.01
			25	0	22.72	22.61	22.43
			25	12	22.49	22.48	22.50
			25	24	22.49	22.54	22.50
			50	0	23.13	22.93	22.81
		16QAM	1	0	22.55	23.17	22.36
			1	24	22.94	23.39	22.81
			1	49	22.57	23.39	22.85
			25	0	21.68	21.60	20.78
			25	12	21.70	21.62	20.78
			25	24	21.70	21.63	20.78
			50	0	21.58	21.48	21.22

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					133197	133297	133397
					670.5MHz	680.5MHz	690.5MHz
Band 71	15	QPSK	1	0	23.15	23.14	23.43
			1	37	23.14	23.16	23.00
			1	74	23.02	23.29	22.93
			36	0	23.07	22.66	22.45
			36	16	23.13	22.55	22.49
			36	35	23.12	22.62	22.50
			75	0	22.73	22.91	22.47
		16QAM	1	0	22.64	23.10	22.87
			1	37	22.78	23.51	22.33
			1	74	22.73	23.12	22.84
			36	0	21.58	21.50	20.77
			36	16	21.63	21.53	20.76
			36	35	21.65	21.52	20.81
			75	0	21.06	21.47	20.75

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					133222	133322	133372
					673MHz	683MHz	688MHz
Band 71	20	QPSK	1	0	23.23	23.12	23.08
			1	49	23.22	23.16	23.14
			1	99	23.29	23.05	23.01
			50	0	23.12	22.71	22.94
			50	24	23.13	22.62	22.95
			50	49	23.12	22.57	22.95
			100	0	22.76	22.58	22.63
		16QAM	1	0	22.81	22.55	22.34
			1	49	22.88	22.56	22.35
			1	99	22.85	22.84	22.32
			50	0	21.58	21.58	21.54
			50	24	21.58	21.55	21.54
			50	49	21.57	21.51	21.54
			100	0	21.11	20.91	20.80

13.4 WLAN 2.4 GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 b	802.11 g	802.11n (HT20)
CH 01	2412	15.60	11.39	11.59
CH 06	2437	16.67	13.09	12.12
CH 11	2462	16.31	12.06	12.17

Average Power (dBm)			
Channel	Frequency (MHz)	802.11n (HT40)	
CH 03	2422	10.82	
CH 06	2437	11.81	
CH 09	2452	11.54	

Note:

- SAR test of WLAN 2.4GHz is performed.
- Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
- Per KDB 248227 D01v02r02, In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. SAR is not required for the following 2.4 GHz OFDM conditions:
 - When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
 - 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.
- The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
- Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 98.45%, so the duty cycle factor is 1.016.

13.5 WLAN 5.2GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 36	5180	12.63	11.67	12.10
CH 40	5200	12.14	11.11	11.35
CH 48	5240	12.31	11.61	11.59

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 38	5190	10.96	10.93
CH 46	5230	10.54	10.58

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 42	5210	9.44

Note:

- SAR test of WLAN 5.2GHz is performed.
- Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
- The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
- Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 87.74%, so the duty cycle factor is 1.14.

13.6 WLAN 5.8GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 ac20	802.11 n20
CH 149	5745	12.76	11.71	12.60
CH 157	5785	12.60	11.43	12.73
CH 165	5825	13.02	11.90	13.16

Average Power (dBm)			
Channel	Frequency (MHz)	802.11 ac40	802.11 n40
CH 151	5755	11.31	11.81
CH 159	5795	11.89	11.88

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 155	5775	10.72

Note:

1. SAR test of WLAN 5.8GHz is performed.
2. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
3. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
4. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 88.27%, so the duty cycle factor is 1.13.

13.7 Bluetooth Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	GFSK	$\pi/4$ -DQPSK	8DPSK
CH 00	2402	4.19	4.61	4.86
CH 39	2441	3.22	4.24	4.42
CH 78	2480	4.30	4.74	4.91

Average Power (dBm)					
Channel	Frequency (MHz)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=8
CH 00	2402	0.99	0.18	0.89	0.64
CH 20	2442	0.35	-0.35	0.31	0.08
CH 39	2480	1.30	0.62	1.26	1.10

Note:

1. SAR test of Bluetooth is performed and the mode with highest average power is selected for SAR testing.
2. The output power of all data rate were pre-scan, just the worst case of all mode were shown in report.
3. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

14 Exposure Positions Consideration

14.1 EUT Antenna Locations

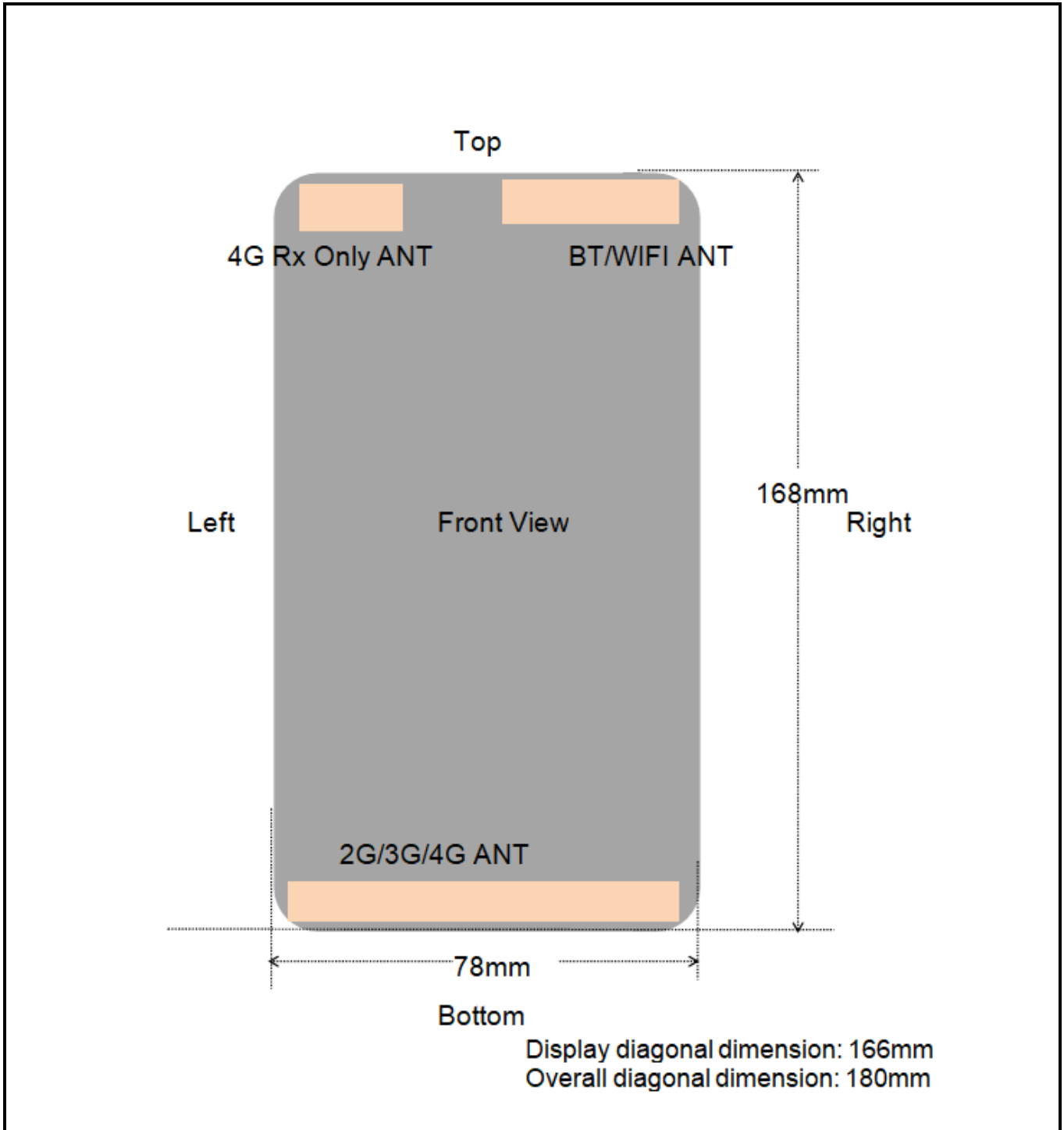


Fig.14.1 EUT Antenna Locations

Note: This antenna diagram is only used as a reference for the distance from the antenna to each edge. For the specific shape of the antenna, please refer to the physical photo.

14.2 Test Positions Consideration

Distance of Antennas to EUT edge/surface Test distance: 10mm						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
2G/3G/4G	<25mm	<25mm	160mm	<25mm	<25mm	<25mm
WLAN & Bluetooth	<25mm	<25mm	<25mm	153mm	<25mm	60mm

Test Positions Test distance: 10mm						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
2G/3G/4G	Yes	Yes	No	Yes	Yes	Yes
WLAN & Bluetooth	Yes	Yes	Yes	No	Yes	No

Note:

1. Head/Body-worn/Hotspot mode SAR assessments are required.
2. Referring to KDB 941225 D06 v02r01, when the overall device length and width are $\geq 9\text{cm} * 5\text{cm}$, the test distance is 10mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
3. Per KDB 447498 D04v01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user, which is 0 mm for head SAR, 10 mm for hotspot SAR, and 10 mm for body-worn SAR.
4. Per KDB 648474 D04 v01r03, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2\text{ W/kg}$

15 SAR Test Results Summary

15.1 Standalone Head SAR Data

➤ GSM Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
1	GSM850/Voice	Right Cheek	251	848.8	34.46	-0.17	34.5	0.137	1.009	0.138
	GSM850/Voice	Right Tilted	251	848.8	34.46	0.01	34.5	0.072	1.009	0.073
	GSM850/Voice	Left Cheek	251	848.8	34.46	0.02	34.5	0.087	1.009	0.087
	GSM850/Voice	Left Tilted	251	848.8	34.46	0.05	34.5	0.062	1.009	0.063
2	PCS1900/Voice	Right Cheek	661	1880	31.50	0.09	32.0	0.056	1.122	0.062
	PCS1900/Voice	Right Tilted	661	1880	31.50	0.01	32.0	0.033	1.122	0.037
	PCS1900/Voice	Left Cheek	661	1880	31.50	-0.06	32.0	0.050	1.122	0.056
	PCS1900/Voice	Left Tilted	661	1880	31.50	0.02	32.0	0.033	1.122	0.037
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ WCDMA Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
3	Band II/RMC	Right Cheek	9538	1907.6	23.69	-0.04	24.0	0.097	1.074	0.104
	Band II/RMC	Right Tilted	9538	1907.6	23.69	0.15	24.0	0.048	1.074	0.051
	Band II/RMC	Left Cheek	9538	1907.6	23.69	0.00	24.0	0.071	1.074	0.076
	Band II/RMC	Left Tilted	9538	1907.6	23.69	0.02	24.0	0.056	1.074	0.060
4	Band IV/RMC	Right Cheek	1513	1752.6	23.39	0.06	23.5	0.066	1.026	0.068
	Band IV/RMC	Right Tilted	1513	1752.6	23.39	0.16	23.5	0.015	1.026	0.015
	Band IV/RMC	Left Cheek	1513	1752.6	23.39	0.06	23.5	0.040	1.026	0.041
	Band IV/RMC	Left Tilted	1513	1752.6	23.39	0.04	23.5	0.024	1.026	0.024
5	Band V/RMC	Right Cheek	4183	836.6	23.50	-0.06	24.0	0.112	1.122	0.126
	Band V/RMC	Right Tilted	4183	836.6	23.50	0.01	24.0	0.060	1.122	0.067
	Band V/RMC	Left Cheek	4183	836.6	23.50	-0.02	24.0	0.089	1.122	0.100
	Band V/RMC	Left Tilted	4183	836.6	23.50	-0.07	24.0	0.052	1.122	0.058
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ FDD-LTE Band 2(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
6	Band2/1RB#99	Right Cheek	19100	1900	23.88	0.12	24.0	0.133	1.028	0.137
	Band2/1RB#99	Right Tilted	19100	1900	23.88	0.18	24.0	0.067	1.028	0.069
	Band2/1RB#99	Left Cheek	19100	1900	23.88	0.06	24.0	0.090	1.028	0.092
	Band2/1RB#99	Left Tilted	19100	1900	23.88	0.09	24.0	0.079	1.028	0.081
	Band2/50%RB#24	Right Cheek	18900	1880	22.74	0.01	23.0	0.110	1.062	0.117
	Band2/50%RB#24	Right Tilted	18900	1880	22.74	0.01	23.0	0.059	1.062	0.063
	Band2/50%RB#24	Left Cheek	18900	1880	22.74	0.00	23.0	0.079	1.062	0.084
	Band2/50%RB#24	Left Tilted	18900	1880	22.74	-0.09	23.0	0.069	1.062	0.074
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ FDD-LTE Band 5(10MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
7	Band5/1RB#49	Right Cheek	20525	836.5	23.56	0.16	24.0	0.114	1.107	0.126
	Band5/1RB#49	Right Tilted	20525	836.5	23.56	0.03	24.0	0.083	1.107	0.092
	Band5/1RB#49	Left Cheek	20525	836.5	23.56	0.07	24.0	0.099	1.107	0.110
	Band5/1RB#49	Left Tilted	20525	836.5	23.56	-0.16	24.0	0.072	1.107	0.079
	Band5/50%RB#0	Right Cheek	20525	836.5	23.10	0.01	23.5	0.104	1.096	0.114
	Band5/50%RB#0	Right Tilted	20525	836.5	23.10	0.05	23.5	0.077	1.096	0.084
	Band5/50%RB#0	Left Cheek	20525	836.5	23.10	0.04	23.5	0.092	1.096	0.101
	Band5/50%RB#0	Left Tilted	20525	836.5	23.10	0.01	23.5	0.066	1.096	0.073
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ FDD-LTE Band 7(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band7/1RB#99	Right Cheek	20850	2510	24.01	0.02	24.5	0.061	1.119	0.069
	Band7/1RB#99	Right Tilted	20850	2510	24.01	0.02	24.5	0.075	1.119	0.084
8	Band7/1RB#99	Left Cheek	20850	2510	24.01	-0.01	24.5	0.126	1.119	0.141
	Band7/1RB#99	Left Tilted	20850	2510	24.01	-0.05	24.5	0.051	1.119	0.057
	Band7/50%RB#24	Right Cheek	20850	2510	23.44	0.09	23.5	0.056	1.014	0.056
	Band7/50%RB#24	Right Tilted	20850	2510	23.44	0.01	23.5	0.068	1.014	0.069
	Band7/50%RB#24	Left Cheek	20850	2510	23.44	-0.05	23.5	0.109	1.014	0.111
	Band7/50%RB#24	Left Tilted	20850	2510	23.44	0.07	23.5	0.046	1.014	0.046
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ FDD-LTE Band 12(10MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band12/1RB#49	Right Cheek	23095	707.5	23.55	0.06	24.0	0.090	1.109	0.100
	Band12/1RB#49	Right Tilted	23095	707.5	23.55	0.16	24.0	0.057	1.109	0.064
9	Band12/1RB#49	Left Cheek	23095	707.5	23.55	0.07	24.0	0.091	1.109	0.101
	Band12/1RB#49	Left Tilted	23095	707.5	23.55	0.01	24.0	0.031	1.109	0.034
	Band12/50%RB#12	Right Cheek	23060	704	23.27	0.15	23.5	0.078	1.054	0.082
	Band12/50%RB#12	Right Tilted	23060	704	23.27	0.01	23.5	0.050	1.054	0.052
	Band12/50%RB#12	Left Cheek	23060	704	23.27	0.00	23.5	0.079	1.054	0.084
	Band12/50%RB#12	Left Tilted	23060	704	23.27	0.07	23.5	0.026	1.054	0.028
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g			

➤ FDD-LTE Band 66(20MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
10	Band66/1RB#99	Right Cheek	132072	1720	24.17	0.07	24.5	0.077	1.079	0.083	
	Band66/1RB#99	Right Tilted	132072	1720	24.17	0.18	24.5	0.018	1.079	0.019	
	Band66/1RB#99	Left Cheek	132072	1720	24.17	0.04	24.5	0.047	1.079	0.051	
	Band66/1RB#99	Left Tilted	132072	1720	24.17	-0.15	24.5	0.028	1.079	0.030	
	Band66/50%RB#0	Right Cheek	132322	1745	23.51	0.07	24.0	0.067	1.119	0.075	
	Band66/50%RB#0	Right Tilted	132322	1745	23.51	0.01	24.0	0.016	1.119	0.017	
	Band66/50%RB#0	Left Cheek	132322	1745	23.51	0.05	24.0	0.042	1.119	0.047	
	Band66/50%RB#0	Left Tilted	132322	1745	23.51	0.03	24.0	0.025	1.119	0.028	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ FDD-LTE Band 71(15MHz) QPSK Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band71/1RB#99	Right Cheek	133222	673	23.29	0.00	24.0	0.068	1.178	0.080	
	Band71/1RB#99	Right Tilted	133222	673	23.29	0.06	24.0	0.041	1.178	0.049	
11	Band71/1RB#99	Left Cheek	133222	673	23.29	0.01	24.0	0.069	1.178	0.081	
	Band71/1RB#99	Left Tilted	133222	673	23.29	-0.03	24.0	0.039	1.178	0.046	
	Band71/50RB#24	Right Cheek	133222	673	23.13	0.01	23.5	0.059	1.089	0.064	
	Band71/50RB#24	Right Tilted	133222	673	23.13	-0.09	23.5	0.036	1.089	0.039	
	Band71/50RB#24	Left Cheek	133222	673	23.13	0.10	23.5	0.061	1.089	0.067	
	Band71/50RB#24	Left Tilted	133222	673	23.13	0.11	23.5	0.034	1.089	0.037	
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 2.4 GHz Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	2.4GHz/802.11b	Right Cheek	6	2437	16.67	0.01	17.0	0.052	1.079	1.016	0.056
	2.4GHz/802.11b	Right Tilted	6	2437	16.67	0.03	17.0	0.051	1.079	1.016	0.055
	2.4GHz/802.11b	Left Cheek	6	2437	16.67	-0.10	17.0	0.175	1.079	1.016	0.192
12	2.4GHz/802.11b	Left Tilted	6	2437	16.67	-0.02	17.0	0.190	1.079	1.016	0.208
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 5.2 GHz Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a	Right Cheek	36	5180	12.63	0.08	13.0	0.132	1.089	1.140	0.164
	5.2GHz/802.11a	Right Tilted	36	5180	12.63	-0.03	13.0	0.122	1.089	1.140	0.151
13	5.2GHz/802.11a	Left Cheek	36	5180	12.63	-0.06	13.0	0.323	1.089	1.140	0.401
	5.2GHz/802.11a	Left Tilted	36	5180	12.63	0.05	13.0	0.297	1.089	1.140	0.369
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 5.8 GHz Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a	Right Cheek	165	5825	13.02	0.00	13.5	0.004	1.117	1.130	0.006
	5.8GHz/802.11a	Right Tilted	165	5825	13.02	0.00	13.5	0.004	1.117	1.130	0.006
14	5.8GHz/802.11a	Left Cheek	165	5825	13.02	0.00	13.5	0.065	1.117	1.130	0.083
	5.8GHz/802.11a	Left Tilted	165	5825	13.02	0.00	13.5	0.031	1.117	1.130	0.039
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ Bluetooth Head SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	BT/GFSK	Right Cheek	78	2480	4.30	0.00	5.0	0.001	1.175	1.000	0.002
	BT/GFSK	Right Tilted	78	2480	4.30	0.00	5.0	<0.001*	1.175	1.000	<0.001*
15	BT/GFSK	Left Cheek	78	2480	4.30	0.00	5.0	0.006	1.175	1.000	0.008
	BT/GFSK	Left Tilted	78	2480	4.30	0.00	5.0	<0.001*	1.175	1.000	<0.001*
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

Note:

- Per KDB 447498 D04v01, for each exposure position, if the highest output power channel Reported SAR ≤ 0.8W/kg, other channels SAR testing is not necessary.
- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8W/kg.
- Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
- Per KDB 248227 D01v02r02, for 802.11b DSSS, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in that exposure configuration.
- Per KDB 248227 D01v02r02, OFDM SAR is not required 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. Cuz the maximum output power specified for OFDM and DSSS are 22.39mW(13.5dBm) and 50.12mW(17dBm), the scaled SAR would be $0.208 \times (22.39/50.12) = 0.093 \text{ W/Kg} < 1.2 \text{ W/kg}$, therefore, SAR is not required for OFDM.
- According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination
- Highlight part of test data means repeated test.
- *: Due the antenna location and antenna performance results the SAR value lower than the lowest system limit, then we show “<0.001* W/Kg” in the report.

15.2 Standalone Body SAR

➤ GSM Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	GPRS850/2 slots	Front	251	848.8	32.46	0.05	32.5	0.144	1.009	0.145
16	GPRS850/2 slots	Back	251	848.8	32.46	-0.04	32.5	0.370	1.009	0.373
	GPRS1900/3 slots	Front	661	1880	27.66	0.01	28.0	0.118	1.081	0.128
17	GPRS1900/3 slots	Back	661	1880	27.66	0.03	28.0	0.473	1.081	0.511
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ WCDMA Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band II/RMC	Front	9538	1907.6	23.69	0.04	24.0	0.241	1.074	0.259
18	Band II/RMC	Back	9538	1907.6	23.69	-0.03	24.0	0.981	1.074	1.054
	Band II/RMC	Back	9262	1852.4	22.91	0.02	24.0	0.757	1.285	0.973
	Band II/RMC	Back	9400	1880	23.55	-0.03	24.0	0.855	1.109	0.948
	Band II/RMC	Back	9538	1907.6	23.69	0.01	24.0	0.904	1.074	0.971
	Band IV/RMC	Front	1513	1752.6	23.39	0.11	23.5	0.251	1.026	0.258
19	Band IV/RMC	Back	1513	1752.6	23.39	-0.05	23.5	0.972	1.026	0.997
	Band IV/RMC	Back	1312	1712.4	23.29	0.12	23.5	0.851	1.050	0.894
	Band IV/RMC	Back	1413	1732.6	23.35	-0.05	23.5	0.877	1.035	0.908
	Band IV/RMC	Back	1513	1752.6	23.39	0.01	23.5	0.937	1.026	0.961
	Band V/RMC	Front	4183	836.6	23.50	-0.01	24.0	0.132	1.122	0.148
20	Band V/RMC	Back	4183	836.6	23.50	0.03	24.0	0.337	1.122	0.378
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 2(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band2/1RB#99	Front	19100	1900	23.88	-0.03	24.0	0.218	1.028	0.224
	Band2/1RB#99	Back	19100	1900	23.88	0.02	24.0	0.829	1.028	0.852
21	Band2/1RB#99	Back	18700	1860	22.80	0.00	24.0	0.877	1.318	1.156
	Band2/1RB#99	Back	18900	1880	22.15	-0.06	24.0	0.721	1.531	1.104
	Band2/1RB#99	Back	18700	1860	22.80	0.05	24.0	0.825	1.318	1.087
	Band2/50%RB#24	Front	18900	1880	22.74	0.08	23.0	0.262	1.062	0.278
	Band2/50%RB#24	Back	18900	1880	22.74	0.01	23.0	0.751	1.062	0.798
	Band2/100%RB#0	Back	19100	1900	22.71	0.01	23.0	0.742	1.069	0.793
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 5(10MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band5/1RB#49	Front	20525	836.5	23.56	-0.10	24.0	0.119	1.107	0.132
22	Band5/1RB#49	Back	20525	836.5	23.56	-0.20	24.0	0.304	1.107	0.337
	Band5/50%RB#0	Front	20525	836.5	23.10	0.08	23.5	0.111	1.096	0.122
	Band5/50%RB#0	Back	20525	836.5	23.10	0.00	23.5	0.281	1.096	0.308
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 7(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band7/1RB#99	Front	20850	2510	24.01	-0.14	24.5	0.219	1.119	0.245
23	Band7/1RB#99	Back	20850	2510	24.01	0.16	24.5	0.361	1.119	0.404
	Band7/50%RB#24	Front	20850	2510	23.44	0.08	23.5	0.192	1.014	0.195
	Band7/50%RB#24	Back	20850	2510	23.44	0.01	23.5	0.317	1.014	0.321
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 12(10MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band12/1RB#49	Front	23095	707.5	23.55	-0.11	24.0	0.130	1.109	0.144
24	Band12/1RB#49	Back	23095	707.5	23.55	0.00	24.0	0.149	1.109	0.165
	Band12/50%RB#12	Front	23060	704	23.27	0.04	23.5	0.119	1.054	0.125
	Band12/50%RB#12	Back	23060	704	23.27	0.01	23.5	0.138	1.054	0.145
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 66(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band66/1RB#99	Front	132072	1720	24.17	0.03	24.5	0.244	1.079	0.263
	Band66/1RB#99	Back	132072	1720	24.17	0.06	24.5	0.803	1.079	0.866
25	Band66/1RB#99	Back	132322	1720	24.16	-0.14	24.5	0.807	1.081	0.872
	Band66/1RB#99	Back	132572	1720	24.02	-0.03	24.5	0.699	1.117	0.781
	Band66/50%RB#0	Front	132322	1745	23.51	0.06	24.0	0.229	1.119	0.256
	Band66/50%RB#0	Back	132322	1745	23.51	-0.06	24.0	0.692	1.119	0.774
	Band66/100%RB#0	Back	132322	1745	23.58	-0.07	24.0	0.623	1.102	0.687
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 71(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band71/1RB#99	Front	133222	673	23.29	0.04	24.0	0.086	1.178	0.101
26	Band71/1RB#99	Back	133222	673	23.29	-0.12	24.0	0.132	1.178	0.155
	Band71/50%RB#24	Front	133222	673	23.13	0.07	23.5	0.075	1.089	0.082
	Band71/50%RB#24	Back	133222	673	23.13	0.01	23.5	0.115	1.089	0.125
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ WLAN 2.4GHz Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	2.4GHz/802.11b	Front	6	2437	16.67	0.05	17.0	0.046	1.079	1.016	0.050
27	2.4GHz/802.11b	Back	6	2437	16.67	0.05	17.0	0.069	1.079	1.016	0.075
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

➤ WLAN 5.2GHz Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a	Front	36	5180	12.63	-0.04	13.0	0.073	1.089	1.140	0.090
28	5.2GHz/802.11a	Back	36	5180	12.63	0.09	13.0	0.185	1.089	1.140	0.230
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ WLAN 5.8GHz Wi-Fi Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a	Front	165	5825	13.02	0.00	13.5	0.027	1.117	1.130	0.034
29	5.8GHz/802.11a	Back	165	5825	13.02	0.02	13.5	0.060	1.117	1.130	0.076
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

➤ Bluetooth Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	BT/GFSK	Front	78	2480	4.30	0.00	5.0	<0.001*	1.175	1.000	<0.001*
30	BT/GFSK	Back	78	2480	4.30	0.00	5.0	0.001	1.175	1.000	0.001
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) Averaged over 1g				

Note:

1. Body-worn SAR testing was performed at 10mm separation, and this distance is determined by the handset manufacturer that there will be body-worn accessories that users may acquire at the time of equipment certification, to enable users to purchase aftermarket body-worn accessories with the required minimum separation.
2. Per KDB 941225 D06v02r01, when the same wireless modes and device transmission configurations are required for testing body-worn accessories and hotspot mode, it is not necessary to test body-worn accessory SAR for the same device orientation if the test separation distance for hotspot mode is more conservative than that used for body-worn accessories.
3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call is selected to be tested.
4. Per KDB 648474 D04v01r03, when the *Reported* SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. The WLAN SAR perform the front and back position, due considered the simultaneous SAR for body-worn.
6. Per KDB 447498 D04v01, for each exposure position, if the highest output channel Reported SAR ≤ 0.8 W/kg, other channels SAR testing is not necessary.
7. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg.
8. Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg.
9. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
10. Highlight part of test data means repeated test.
11. *: Due the antenna location and antenna performance results the SAR value lower than the lowest system limit, then we show "<0.001* W/Kg" in the report.

15.3 Body SAR in Hotspot Mode

> GSM Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	GPRS850/2 slots	Front	251	848.8	32.46	0.05	32.5	0.144	1.009	0.145
16	GPRS850/2 slots	Back	251	848.8	32.46	-0.04	32.5	0.370	1.009	0.373
	GPRS850/2 slots	Left	251	848.8	32.46	0.01	32.5	0.057	1.009	0.058
	GPRS850/2 slots	Right	251	848.8	32.46	0.02	32.5	0.135	1.009	0.136
	GPRS850/2 slots	Bottom	251	848.8	32.46	0.17	32.5	0.306	1.009	0.309
	GPRS1900/3 slots	Front	661	1880	27.66	0.01	28.0	0.118	1.081	0.128
17	GPRS1900/3 slots	Back	661	1880	27.66	0.03	28.0	0.473	1.081	0.511
	GPRS1900/3 slots	Left	661	1880	27.66	0.01	28.0	0.083	1.081	0.089
	GPRS1900/3 slots	Right	661	1880	27.66	0.00	28.0	0.056	1.081	0.060
	GPRS1900/3 slots	Bottom	661	1880	27.66	0.10	28.0	0.337	1.081	0.364
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

> WCDMA Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band II/RMC	Front	9538	1907.6	23.69	0.04	24.0	0.241	1.074	0.259
18	Band II/RMC	Back	9538	1907.6	23.69	-0.03	24.0	0.981	1.074	1.054
	Band II/RMC	Left	9538	1907.6	23.69	0.09	24.0	0.168	1.074	0.180
	Band II/RMC	Right	9538	1907.6	23.69	0.04	24.0	0.114	1.074	0.122
	Band II/RMC	Bottom	9538	1907.6	23.69	0.08	24.0	0.688	1.074	0.739
	Band II/RMC	Back	9262	1852.4	22.91	0.02	24.0	0.757	1.285	0.973
	Band II/RMC	Back	9400	1880	23.55	-0.03	24.0	0.855	1.109	0.948
	Band II/RMC	Back	9538	1907.6	23.69	0.01	24.0	0.904	1.074	0.971
	Band IV/RMC	Front	1513	1752.6	23.39	0.11	23.5	0.251	1.026	0.258
19	Band IV/RMC	Back	1513	1752.6	23.39	-0.05	23.5	0.972	1.026	0.997
	Band IV/RMC	Left	1513	1752.6	23.39	0.01	23.5	0.175	1.026	0.180
	Band IV/RMC	Right	1513	1752.6	23.39	0.05	23.5	0.118	1.026	0.121
	Band IV/RMC	Bottom	1513	1752.6	23.39	0.07	23.5	0.715	1.026	0.734
	Band IV/RMC	Back	1312	1712.4	23.29	0.12	23.5	0.851	1.050	0.894
	Band IV/RMC	Back	1413	1732.6	23.35	-0.05	23.5	0.877	1.035	0.908
	Band IV/RMC	Back	1513	1752.6	23.39	0.01	23.5	0.937	1.026	0.961
	Band V/RMC	Front	4183	836.6	23.50	-0.01	24.0	0.132	1.122	0.148
20	Band V/RMC	Back	4183	836.6	23.50	0.03	24.0	0.337	1.122	0.378
	Band V/RMC	Left	4183	836.6	23.50	0.05	24.0	0.053	1.122	0.059
	Band V/RMC	Right	4183	836.6	23.50	0.05	24.0	0.123	1.122	0.138
	Band V/RMC	Bottom	4183	836.6	23.50	0.09	24.0	0.279	1.122	0.313
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 2(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band2/1RB#99	Front	19100	1900	23.88	-0.03	24.0	0.218	1.028	0.224
	Band2/1RB#99	Back	19100	1900	23.88	0.02	24.0	0.829	1.028	0.852
	Band2/1RB#99	Left	19100	1900	23.88	0.01	24.0	0.152	1.028	0.156
	Band2/1RB#99	Right	19100	1900	23.88	0.16	24.0	0.103	1.028	0.106
	Band2/1RB#99	Bottom	19100	1900	23.88	0.04	24.0	0.621	1.028	0.638
21	Band2/1RB#99	Back	18700	1860	22.80	0.00	24.0	0.877	1.318	1.156
	Band2/1RB#99	Back	18900	1880	22.15	-0.06	24.0	0.721	1.531	1.104
	Band2/1RB#99	Back	18700	1860	22.80	0.05	24.0	0.825	1.318	1.087
	Band2/50%RB#24	Front	18900	1880	22.74	0.08	23.0	0.262	1.062	0.278
	Band2/50%RB#24	Back	18900	1880	22.74	0.01	23.0	0.751	1.062	0.798
	Band2/50%RB#24	Left	18900	1880	22.74	0.02	23.0	0.141	1.062	0.150
	Band2/50%RB#24	Right	18900	1880	22.74	0.04	23.0	0.096	1.062	0.102
	Band2/50%RB#24	Bottom	18900	1880	22.74	0.03	23.0	0.577	1.062	0.613
	Band2/100%RB#0	Back	19100	1900	22.71	0.01	23.0	0.742	1.069	0.793
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 5(10MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band5/1RB#49	Front	20525	836.5	23.56	-0.10	24.0	0.119	1.107	0.132
22	Band5/1RB#49	Back	20525	836.5	23.56	-0.20	24.0	0.304	1.107	0.337
	Band5/1RB#49	Left	20525	836.5	23.56	-0.01	24.0	0.047	1.107	0.052
	Band5/1RB#49	Right	20525	836.5	23.56	0.07	24.0	0.111	1.107	0.123
	Band5/1RB#49	Bottom	20525	836.5	23.56	-0.13	24.0	0.252	1.107	0.279
	Band5/50%RB#0	Front	20525	836.5	23.10	0.08	23.5	0.111	1.096	0.122
	Band5/50%RB#0	Back	20525	836.5	23.10	0.00	23.5	0.281	1.096	0.308
	Band5/50%RB#0	Left	20525	836.5	23.10	0.04	23.5	0.044	1.096	0.049
	Band5/50%RB#0	Right	20525	836.5	23.10	0.07	23.5	0.104	1.096	0.114
	Band5/50%RB#0	Bottom	20525	836.5	23.10	0.01	23.5	0.236	1.096	0.259
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 7(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band7/1RB#99	Front	20850	2510	24.01	-0.14	24.5	0.219	1.119	0.245
	Band7/1RB#99	Back	20850	2510	24.01	0.16	24.5	0.361	1.119	0.404
	Band7/1RB#99	Left	20850	2510	24.01	-0.04	24.5	0.157	1.119	0.176
	Band7/1RB#99	Right	20850	2510	24.01	-0.02	24.5	0.039	1.119	0.043
31	Band7/1RB#99	Bottom	20850	2510	24.01	-0.08	24.5	0.568	1.119	0.636
	Band7/50%RB#24	Front	20850	2510	23.44	0.08	23.5	0.192	1.014	0.195
	Band7/50%RB#24	Back	20850	2510	23.44	0.01	23.5	0.317	1.014	0.321
	Band7/50%RB#24	Left	20850	2510	23.44	-0.06	23.5	0.137	1.014	0.139
	Band7/50%RB#24	Right	20850	2510	23.44	0.05	23.5	0.034	1.014	0.034
	Band7/50%RB#24	Bottom	20850	2510	23.44	0.00	23.5	0.477	1.014	0.484
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 12(10MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band12/1RB#49	Front	23095	707.5	23.55	-0.11	24.0	0.130	1.109	0.144
24	Band12/1RB#49	Back	23095	707.5	23.55	0.00	24.0	0.149	1.109	0.165
	Band12/1RB#49	Left	23095	707.5	23.55	-0.07	24.0	0.072	1.109	0.080
	Band12/1RB#49	Right	23095	707.5	23.55	0.03	24.0	0.105	1.109	0.116
	Band12/1RB#49	Bottom	23095	707.5	23.55	-0.03	24.0	0.119	1.109	0.132
	Band12/50%RB#12	Front	23060	704	23.27	0.04	23.5	0.119	1.054	0.125
	Band12/50%RB#12	Back	23060	704	23.27	0.01	23.5	0.138	1.054	0.145
	Band12/50%RB#12	Left	23060	704	23.27	0.02	23.5	0.066	1.054	0.070
	Band12/50%RB#12	Right	23060	704	23.27	0.08	23.5	0.097	1.054	0.102
	Band12/50%RB#12	Bottom	23060	704	23.27	0.07	23.5	0.109	1.054	0.115
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 66(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)
	Band66/1RB#99	Front	132072	1720	24.17	0.03	24.5	0.244	1.079	0.263
	Band66/1RB#99	Back	132072	1720	24.17	0.06	24.5	0.803	1.079	0.866
	Band66/1RB#99	Left	132072	1720	24.17	-0.11	24.5	0.138	1.079	0.149
	Band66/1RB#99	Right	132072	1720	24.17	0.01	24.5	0.099	1.079	0.107
	Band66/1RB#99	Bottom	132072	1720	24.17	-0.05	25.0	0.767	1.211	0.929
	Band66/1RB#99	Bottom	132322	1745	24.16	0.09	24.5	0.754	1.081	0.815
32	Band66/1RB#99	Bottom	132572	1770	24.02	-0.01	24.5	0.943	1.117	1.053
	Band66/1RB#99	Back	132322	1720	24.16	-0.14	24.5	0.807	1.081	0.872
	Band66/1RB#99	Back	132572	1720	24.02	-0.03	24.5	0.699	1.117	0.781
	Band66/1RB#99	Bottom	132572	1770	24.02	-0.01	24.5	0.911	1.117	1.018
	Band66/50%RB#0	Front	132322	1745	23.51	0.06	24.0	0.229	1.119	0.256
	Band66/50%RB#0	Back	132322	1745	23.51	-0.06	24.0	0.692	1.119	0.774
	Band66/50%RB#0	Left	132322	1745	23.51	0.01	24.0	0.129	1.119	0.144
	Band66/50%RB#0	Right	132322	1745	23.51	0.07	24.0	0.093	1.119	0.105
	Band66/50%RB#0	Bottom	132322	1745	23.51	0.01	24.0	0.714	1.119	0.799
	Band66/100%RB#0	Back	132322	1745	23.58	-0.07	24.0	0.623	1.102	0.687
	Band66/100%RB#0	Bottom	132322	1745	23.58	-0.01	24.0	0.681	1.102	0.750
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g					

➤ FDD-LTE Band 71(20MHz) QPSK Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	
	Band71/1RB#99	Front	133222	673	23.29	0.04	24.0	0.086	1.178	0.101	
	Band71/1RB#99	Back	133222	673	23.29	-0.12	24.0	0.132	1.178	0.155	
	Band71/1RB#99	Left	133222	673	23.29	-0.18	24.0	0.074	1.178	0.087	
33	Band71/1RB#99	Right	133222	673	23.29	-0.09	24.0	0.135	1.178	0.159	
	Band71/1RB#99	Bottom	133222	673	23.29	-0.08	24.0	0.087	1.178	0.102	
	Band71/50%RB#24	Front	133222	673	23.13	0.07	23.5	0.075	1.089	0.082	
	Band71/50%RB#24	Back	133222	673	23.13	0.01	23.5	0.115	1.089	0.125	
	Band71/50%RB#24	Left	133222	673	23.13	0.02	23.5	0.065	1.089	0.070	
	Band71/50%RB#24	Right	133222	673	23.13	0.07	23.5	0.121	1.089	0.132	
	Band71/50%RB#24	Bottom	133222	673	23.13	0.02	23.5	0.076	1.089	0.083	
ANSI / IEEE C95.1 – SAFETY LIMIT							1.6 W/kg (mW/g)				
Spatial Peak											
Uncontrolled Exposure/General Population											

➤ WLAN 2.4GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	2.4GHz/802.11b	Front	6	2437	16.67	0.05	17.0	0.046	1.079	1.016	0.050
27	2.4GHz/802.11b	Back	6	2437	16.67	0.05	17.0	0.069	1.079	1.016	0.075
	2.4GHz/802.11b	Right	6	2437	16.67	0.02	17.0	0.033	1.079	1.016	0.036
	2.4GHz/802.11b	Top	6	2437	16.67	0.01	17.0	0.052	1.079	1.016	0.056
ANSI / IEEE C95.1 – SAFETY LIMIT							1.6 W/kg (mW/g)				
Spatial Peak											
Uncontrolled Exposure/General Population											

➤ WLAN 5.2GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.2GHz/802.11a	Front	36	5180	12.63	-0.04	13.0	0.073	1.089	1.140	0.090
	5.2GHz/802.11a	Back	36	5180	12.63	0.09	13.0	0.185	1.089	1.140	0.230
34	5.2GHz/802.11a	Right	36	5180	12.63	0.08	13.0	0.245	1.089	1.140	0.304
	5.2GHz/802.11a	Top	36	5180	12.63	0.06	13.0	0.128	1.089	1.140	0.159
ANSI / IEEE C95.1 – SAFETY LIMIT							1.6 W/kg (mW/g)				
Spatial Peak											
Uncontrolled Exposure/General Population											

➤ WLAN 5.8GHz Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	5.8GHz/802.11a	Front	165	5825	13.02	0.00	13.5	0.027	1.117	1.130	0.034
	5.8GHz/802.11a	Back	165	5825	13.02	0.02	13.5	0.060	1.117	1.130	0.076
35	5.8GHz/802.11a	Right	165	5825	13.02	0.03	13.5	0.149	1.117	1.130	0.188
	5.8GHz/802.11a	Top	165	5825	13.02	0.03	13.5	0.032	1.117	1.130	0.040
ANSI / IEEE C95.1 – SAFETY LIMIT							1.6 W/kg (mW/g)				
Spatial Peak											
Uncontrolled Exposure/General Population											

➤ Bluetooth Body SAR in Hotspot mode

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR _{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR _{1g} (W/kg)
	BT/GFSK	Front	78	2480	4.30	0.00	5.0	<0.001*	1.175	1.000	<0.001*
30	BT/GFSK	Back	78	2480	4.30	0.00	5.0	0.001	1.175	1.000	0.001
	BT/GFSK	Right	78	2480	4.30	0.00	5.0	<0.001*	1.175	1.000	<0.001*
	BT/GFSK	Top	78	2480	4.30	0.00	5.0	<0.001*	1.175	1.000	<0.001*
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					1.6 W/kg (mW/g) Averaged over 1g						

Note:

- Per KDB 447498 D04v01, for each exposure position, if the highest output channel Reported SAR ≤ 0.8W/kg, other channels SAR testing is not necessary.
- Additional WLAN SAR testing was performed for simultaneous transmission analysis.
- For Hotspot SAR testing, per KDB 941225 D06v02r01, for EUT dimension ≥ 9cm*5cm, the test distance is 10mm. SAR must be measured for all surfaces and sides with a transmitting antenna located within 2.5cm from that surface or edge.
- Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA output power is < 0.25dB higher than RMC 12.2kbps, or Reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA SAR evaluation can be excluded.
- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8W/kg.
- Per KDB 648474 D04v01r03, when the Reported SAR for a body-worn accessory measured without a headset connected to the handset is > 1.2 W/kg, SAR testing with a headset connected to the handset is required.
- Per KDB 941225 D05v02r05, 100% RB allocation SAR measurement is not required when the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel.
- According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
- Highlight part of test data means repeated test.
- *: Due the antenna location and antenna performance results the SAR value lower than the lowest system limit, then we show “<0.001* W/Kg” in the report.

15.4 Repeated SAR measurement

Band/ Mode	Test Position	CH.	Freq. (MHz)	Measured SAR (W/kg)				
				Original	1 st Repeated		2 nd Repeated	
					Value	Ratio	Value	Ratio
Band II/RMC	Back	9538	1907.6	0.981	0.904	1.09	/	/
Band IV/RMC	Back	1513	1752.6	0.972	0.937	1.04	/	/
Band2/1RB#99	Back	18700	1860	0.877	0.825	1.06		
Band66/1RB#99	Bottom	132572	1770	0.943	0.911	1.04	/	/
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				1.6 W/kg (mW/g) Averaged over 1g				

Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg
- Per KDB 865664 D01v01r04, if the ratio of *original* and *repeated* is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.

15.5 Multi-Band Simultaneous Transmission Considerations

➤ Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the EUT are shown in below Figure and are color-coded to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.



Fig.15.1 Simultaneous Transmission Paths

➤ Multi-Band simultaneous Transmission Consideration

Simultaneous Transmission Consideration	Position	Applicable Combination
	Head	
		WWAN (Voice) + Bluetooth
Body		WWAN (Data) + WLAN 2.4 GHz/5.2GHz/5.8GHz
		WWAN (Data) + Bluetooth
Hotspot		WWAN (Data) + WLAN 2.4 GHz/5.2GHz/5.8GH
		WWAN (Data) + Bluetooth

Note:

1. WLAN 2.4GHz Band, WLAN 5.2GHz Band, WLAN 5.8GHz Band and Bluetooth share the same antenna, and cannot transmit simultaneously.
2. GSM/WCDMA/LTE shares the same antenna, and cannot transmit simultaneously.
3. The Report SAR summation is calculated based on the same configuration and test position.
4. Per KDB 447498 D04v01, simultaneous transmission SAR is compliant if,
 - i. Scalar SAR summation < 1.6 W/kg.
 - ii. $SPLSR = (SAR_1 + SAR_2)^{1.5} / (min. \text{ separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary
 - iii. Simultaneously transmission SAR measurement, and the Reported multi-band SAR < 1.6 W/kg

15.6 SAR Simultaneous Transmission Analysis

➤ Simultaneous Transmission

Position		Standalone SAR(W/kg)				Σ SAR _{1g} (W/kg)		
		1	2	3	4	1+2	1+3	1+4
		WWAN	2.4G WLAN	5G WLAN	BT			
Head	Right Cheek	0.138	0.056	0.164	0.002	0.195	0.302	0.140
	Right Tilted	0.092	0.055	0.151	0.000	0.147	0.243	0.092
	Left Cheek	0.141	0.192	0.401	0.008	0.333	0.542	0.149
	Left Tilted	0.081	0.208	0.369	0.000	0.289	0.450	0.081
Body-worn	Front	0.278	0.050	0.090	0.000	0.328	0.368	0.278
	Back	1.156	0.075	0.230	0.001	1.231	1.386	1.157
Hotspot	Front	0.278	0.050	0.090	0.000	0.328	0.368	0.278
	Back	1.156	0.075	0.230	0.001	1.231	1.386	1.157
	Left	0.180	/	/	0.000	0.180	0.180	0.180
	Right	0.159	0.036	0.304	0.000	0.195	0.463	0.159
	Top	/	0.056	0.159	0.000	0.056	0.159	0.000
	Bottom	1.053	/	/	0.000	1.053	1.053	1.053

➤ Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D04v01.

15.7 Measurement Uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEC/IEEE 62209-1528:2020 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

15.8 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Industry Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested. Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

16 Reference

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- [3]. IEC/IEEE 62209-1528:2020, “Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices –Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)”, October 2020
- [4]. SPEAG DASY52 System Handbook
- [5]. FCC KDB 248227 D01 v02r02, “SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS”, October 2015
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- [7]. FCC KDB 648474 D04 v01r03, “SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS”, October 2015
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- [9]. FCC KDB 941225 D05 v02r05, “SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES”, Dec 2015
- [10]. FCC KDB 941225 D06 v02r01, " SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES", October 2015
- [11]. FCC KDB 865664 D01 v01r04, “SAR MEASUREMENT REQUIREMENTS FOR 100 MHz TO 6 GHz”, August 2015

Appendix A: Plots of SAR System Check

Test Laboratory: JYTSZ

Date: 09.03.2024

DUT: Dipole 750 MHz; Type: D750V3; Serial: SN:1118

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.867 \text{ S/m}$; $\epsilon_r = 40.673$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.71, 10.71, 10.71) @ 750 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 750 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.41 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.456 W/kg

Smallest distance from peaks to all points 3 dB below = 17.6 mm

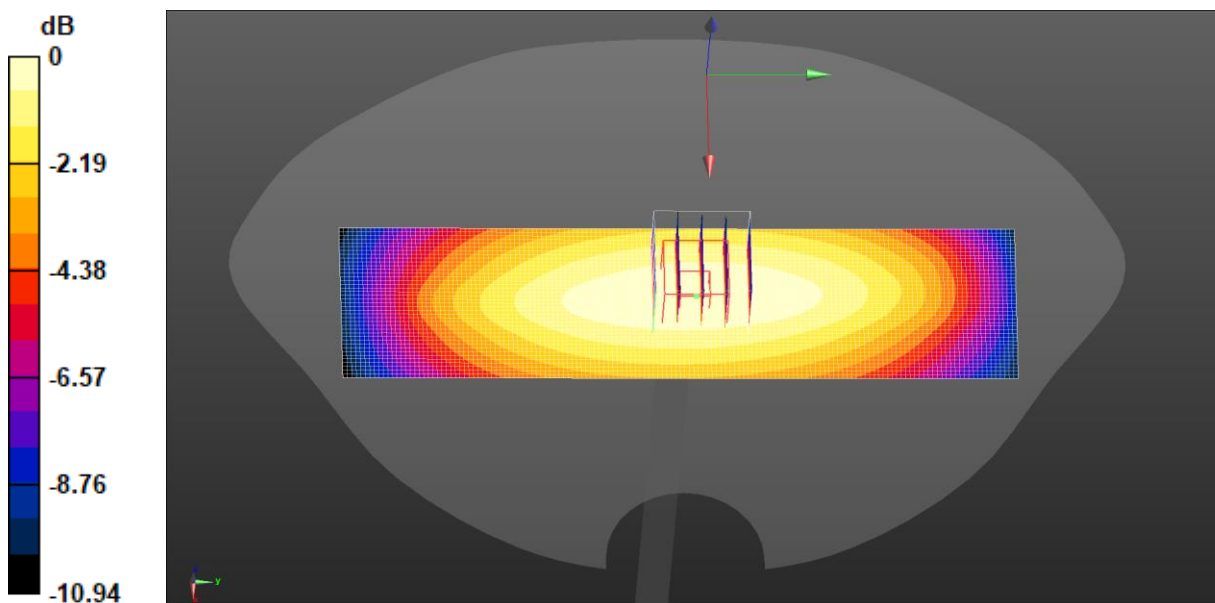
Ratio of SAR at M2 to SAR at M1 = 62.1%

Maximum value of SAR (measured) = 0.968 W/kg

System Performance Check at Frequency 750 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Area Scan (41x151x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.981 W/kg



$0 \text{ dB} = 0.968 \text{ W/kg} = -0.14 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 09.07.2024

DUT: Dipole 835 MHz; Type: D835V2; Serial: SN:4D154

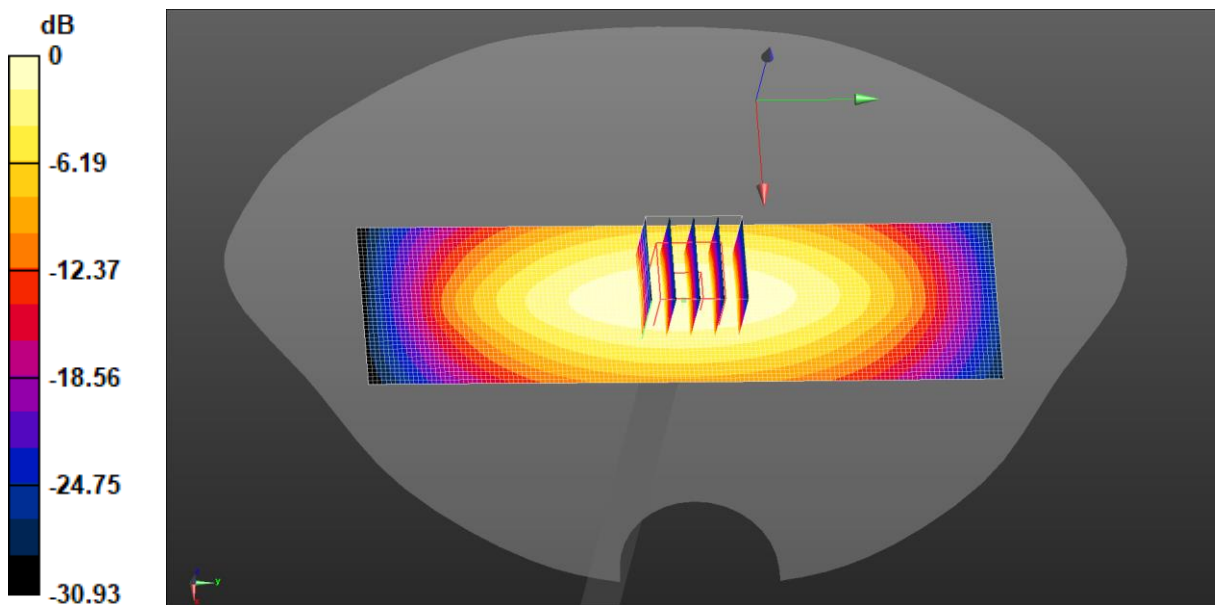
Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.901$ S/m; $\epsilon_r = 40.473$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.3, 10.3, 10.3) @ 835 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 835 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Area Scan (41x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.08 W/kg

System Performance Check at Frequency 835 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.01V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.786 W/kg; SAR(10 g) = 0.505W/kg
Smallest distance from peaks to all points 3 dB below = 16.1 mm
Ratio of SAR at M2 to SAR at M1 = 63%
Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

Test Laboratory: JYTSZ

Date: 09.14.2024

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: SN:1177

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.334$ S/m; $\epsilon_r = 38.923$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.73, 8.73, 8.73) @ 1750 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 1750 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.27 W/kg

System Performance Check at Frequency 1750 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 37.97 V/m; Power Drift = 0.02 dB

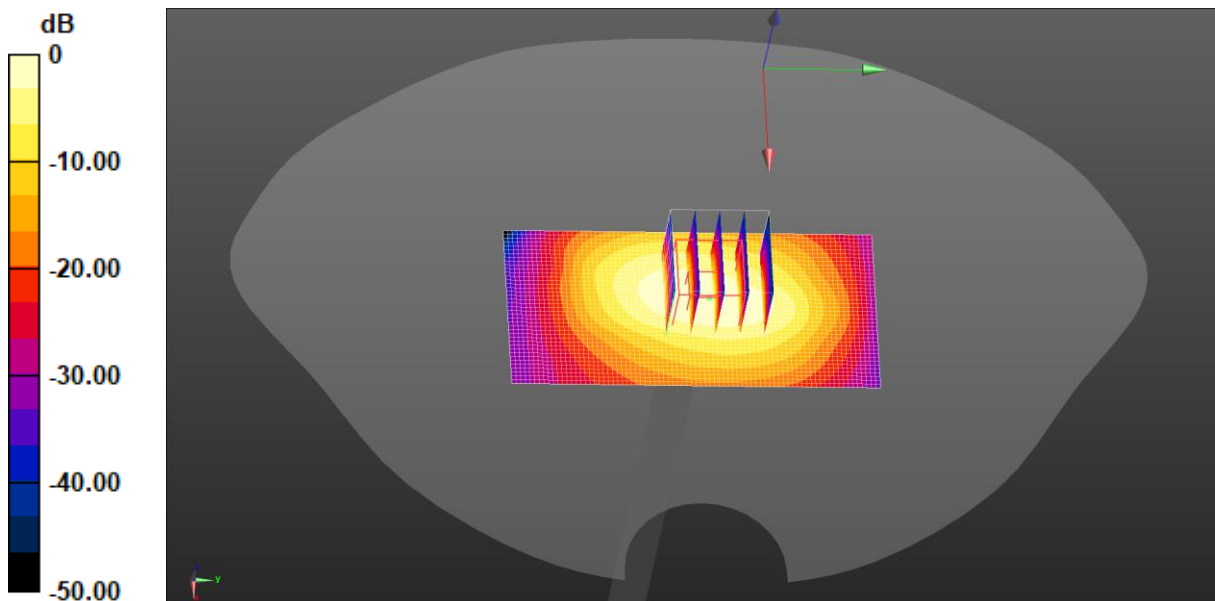
Peak SAR (extrapolated) = 2.73 W/kg

SAR(1 g) = 1.42 W/kg; SAR(10 g) = 0.778 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 54.2%

Maximum value of SAR (measured) = 2.23 W/kg



$0 \text{ dB} = 2.27 \text{ W/kg} = 3.56 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 09.17.2024

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN:5d175

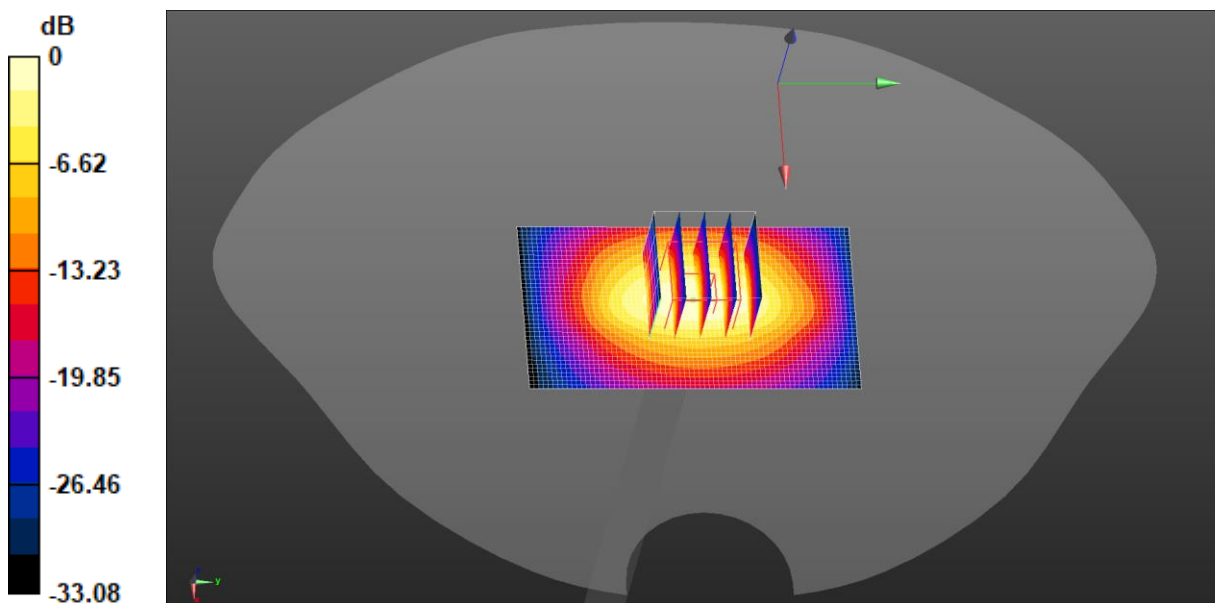
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.419$ S/m; $\epsilon_r = 38.713$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.44, 8.44, 8.44) @ 1900 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 1900 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.56 W/kg

System Performance Check at Frequency 1900 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 39.78 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 2.92 W/kg
SAR(1 g) = 1.58 W/kg; SAR(10 g) = 0.831 W/kg
Smallest distance from peaks to all points 3 dB below = 9.3 mm
Ratio of SAR at M2 to SAR at M1 = 57%
Maximum value of SAR (measured) = 2.43 W/kg



0 dB = 2.56 W/kg = 4.08 dBW/kg

Test Laboratory: JYTSZ

Date: 09.21.2024

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: SN:910

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.808 \text{ S/m}$; $\epsilon_r = 37.922$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.89, 7.89, 7.89) @ 2450 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 2450 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 3.82 W/kg

System Performance Check at Frequency 2450 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 46.81 V/m; Power Drift = 0.05 dB

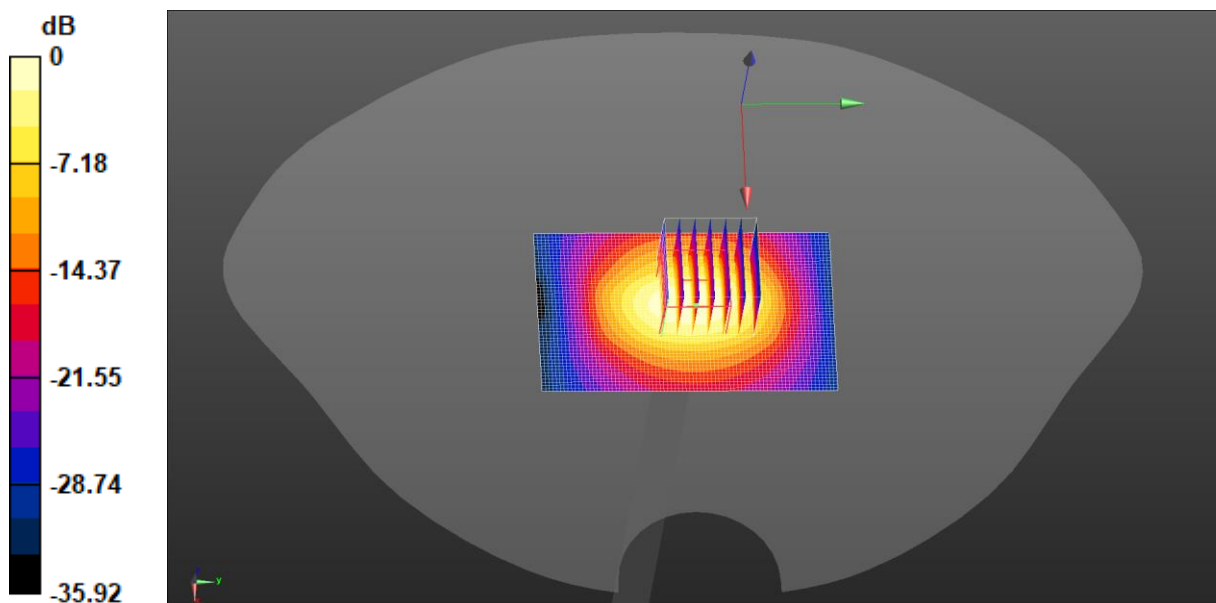
Peak SAR (extrapolated) = 4.43 W/kg

SAR(1 g) = 2.12 W/kg; SAR(10 g) = 0.981 W/kg

Smallest distance from peaks to all points 3 dB below = 11.9 mm

Ratio of SAR at M2 to SAR at M1 = 59.5%

Maximum value of SAR (measured) = 3.42 W/kg



0 dB = 3.82 W/kg = 5.82 dBW/kg

Test Laboratory: JYTSZ

Date: 09.21.2024

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: SN:1114

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.933$ S/m; $\epsilon_r = 37.656$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.6, 7.6, 7.6) @ 2600 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 2600 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 43.76 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 4.59 W/kg

SAR(1 g) = 2.26 W/kg; SAR(10 g) = 0.982 W/kg

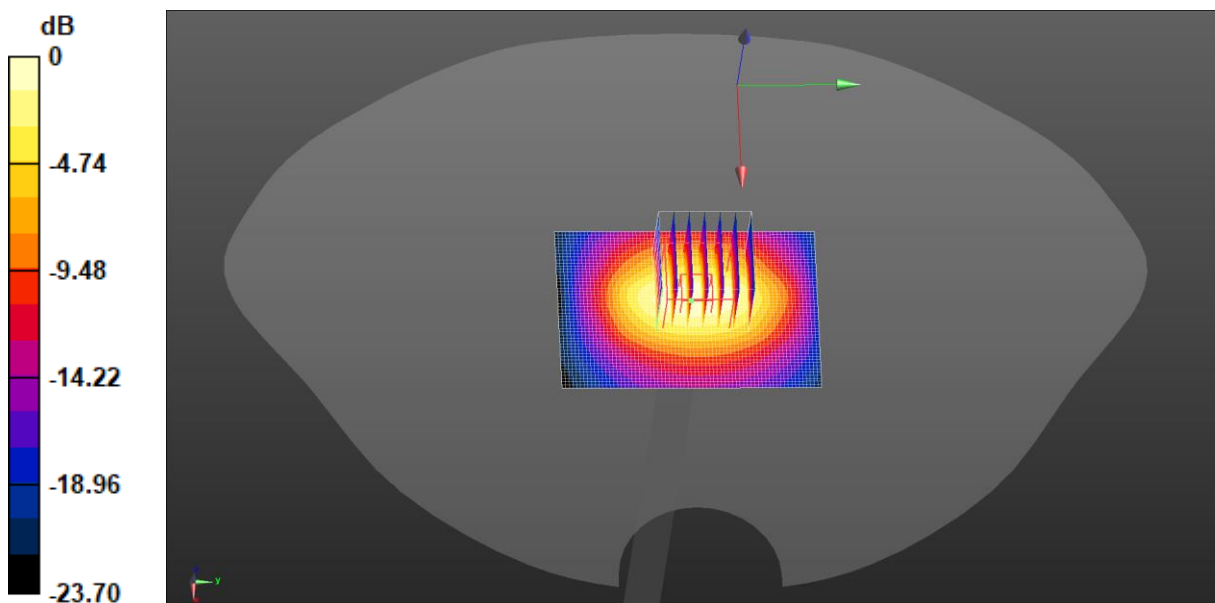
Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 58.8%

Maximum value of SAR (measured) = 3.37 W/kg

System Performance Check at Frequency 2600 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 3.77 W/kg



0 dB = 3.28 W/kg = 5.16 dBW/kg

Test Laboratory: JYTSZ

Date: 09.25.2024

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1320

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5200$ MHz; $\sigma = 4.504$ S/m; $\epsilon_r = 35.991$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.51, 5.51, 5.51) @ 5200 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.12 W/kg

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 38.22 V/m; Power Drift = 0.10 dB

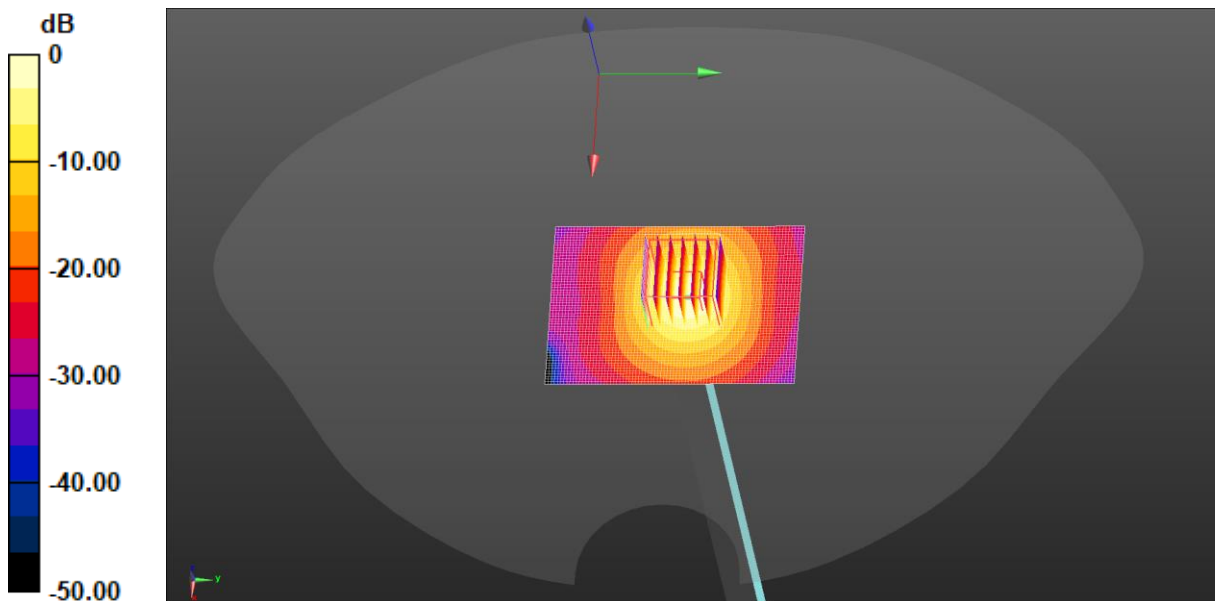
Peak SAR (extrapolated) = 11.5 W/kg

SAR(1 g) = 3.15 W/kg; SAR(10 g) = 0.903 W/kg

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 7.86 W/kg



$$0 \text{ dB} = 7.86 \text{ W/kg} = 8.95 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 09.25.2024

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1320

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.138 \text{ S/m}$; $\epsilon_r = 34.951$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.01, 5.01, 5.01) @ 5800 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 8.52 W/kg

System Performance Check at Frequency 5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 40.16 V/m; Power Drift = 0.06 dB

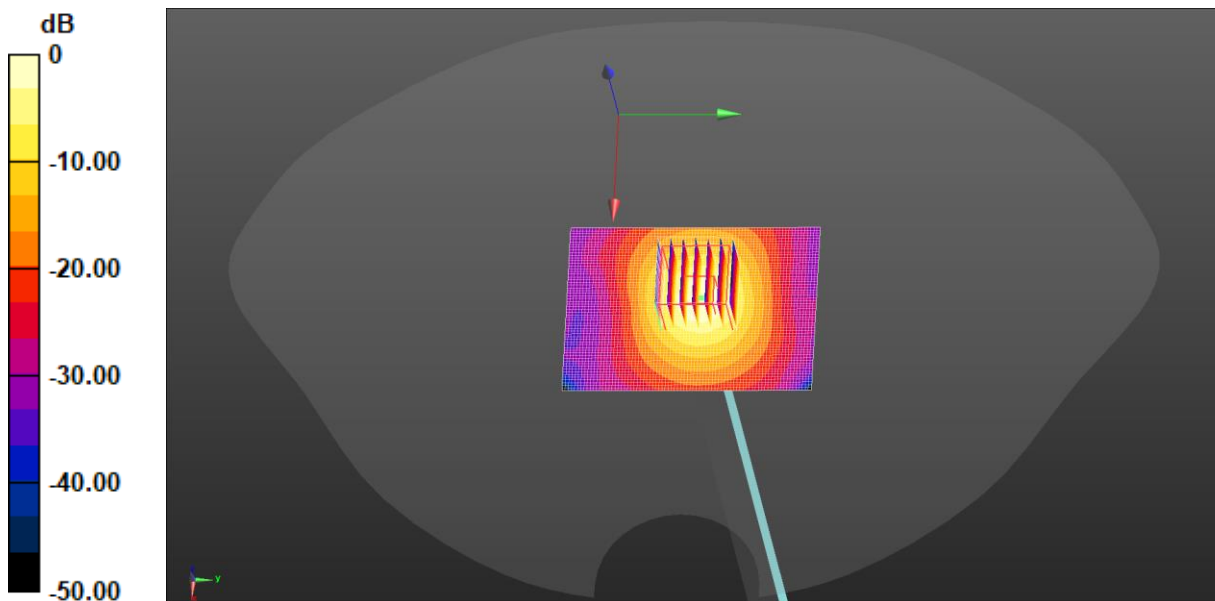
Peak SAR (extrapolated) = 15.6 W/kg

SAR(1 g) = 3.21 W/kg; SAR(10 g) = 0.891 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 52.9%

Maximum value of SAR (measured) = 8.35 W/kg



$$0 \text{ dB} = 8.35 \text{ W/kg} = 9.22 \text{ dBW/kg}$$

Appendix B: Plots of SAR Test Data

Test Laboratory: JYTSZ

Date: 09.07.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

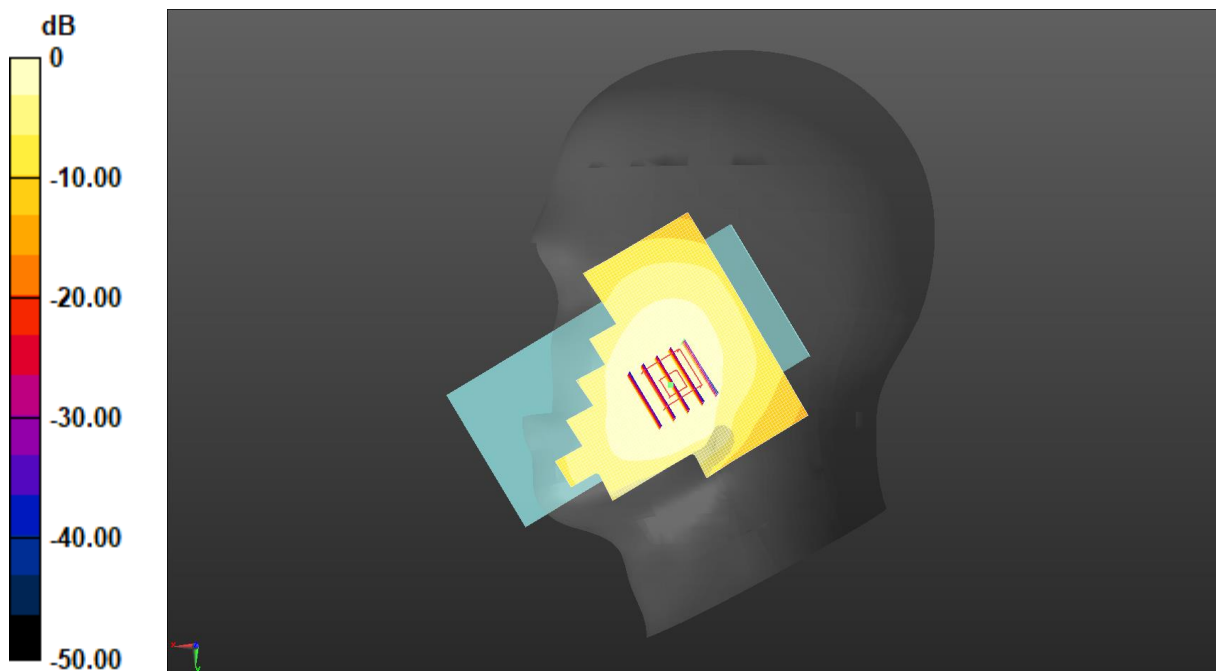
Communication System: UID 0, GSM (0); Frequency: 848.8 MHz; Duty Cycle: 1:8.30042
Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 40.446$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.3, 10.3, 10.3) @ 848.8 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GSM 850 Right Cheek/High Channel/Area Scan (81x81x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.170 W/kg

GSM 850 Right Cheek/High Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.991 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.199 W/kg
SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.099 W/kg
Smallest distance from peaks to all points 3 dB below = 22.5 mm
Ratio of SAR at M2 to SAR at M1 = 70.6%
Maximum value of SAR (measured) = 0.175 W/kg



0 dB = 0.170 W/kg = -7.71 dBW/kg

Test Laboratory: JYTSZ

Date: 09.17.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.405 \text{ S/m}$; $\epsilon_r = 38.742$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.44, 8.44, 8.44) @ 1880 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GSM 1900 Right Cheek/Middle Channel/Area Scan (61x81x1): Interpolated grid:

$dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0877 W/kg

GSM 1900 Right Cheek/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.229 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.0870 W/kg

SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.034 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 16 mm)

Ratio of SAR at M2 to SAR at M1 = 63.9%

Maximum value of SAR (measured) = 0.0761 W/kg



$0 \text{ dB} = 0.0877 \text{ W/kg} = -10.57 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 09.17.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.424$ S/m; $\epsilon_r = 38.702$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.44, 8.44, 8.44) @ 1907.6 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1900 Right Cheek/High Channel/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

WCDMA 1900 Right Cheek/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.010 V/m; Power Drift = -0.04 dB

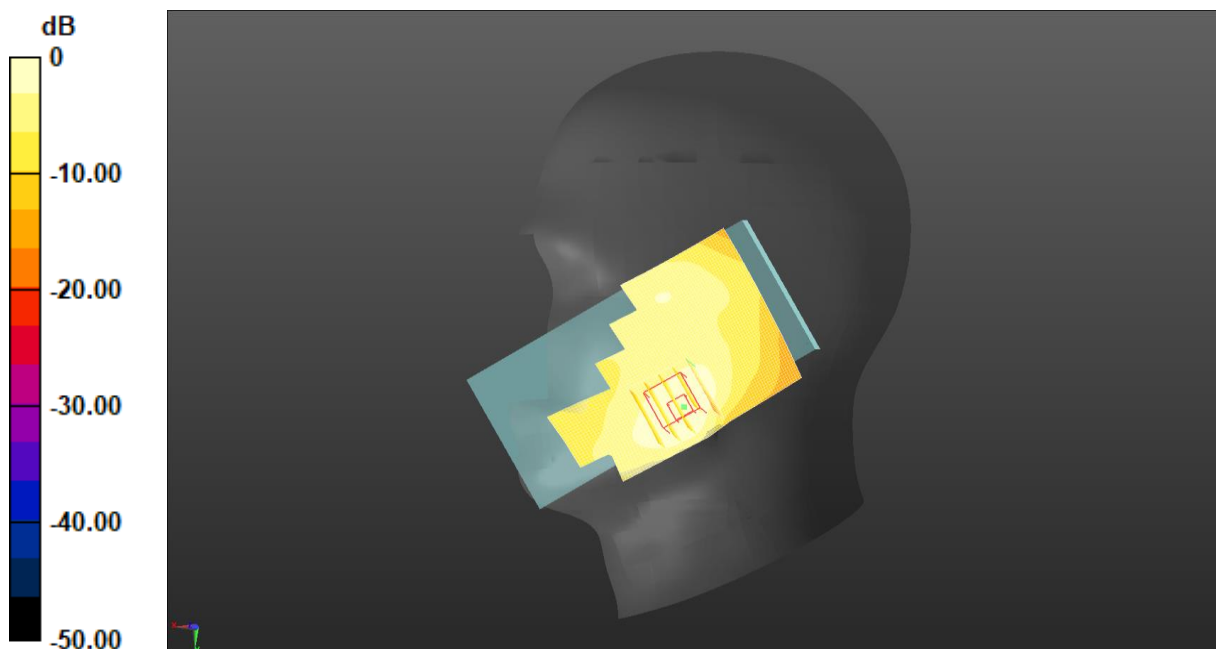
Peak SAR (extrapolated) = 0.153 W/kg

SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.059 W/kg

Smallest distance from peaks to all points 3 dB below = 15.2 mm

Ratio of SAR at M2 to SAR at M1 = 64%

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



0 dB = 0.153 W/kg = -8.16 dBW/kg

Test Laboratory: JYTSZ

Date: 09.14.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.335$ S/m; $\epsilon_r = 38.918$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.73, 8.73, 8.73) @ 1752.6 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1700 Right Cheek/High Channel/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

WCDMA 1700 Right Cheek/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.984 V/m; Power Drift = 0.06 dB

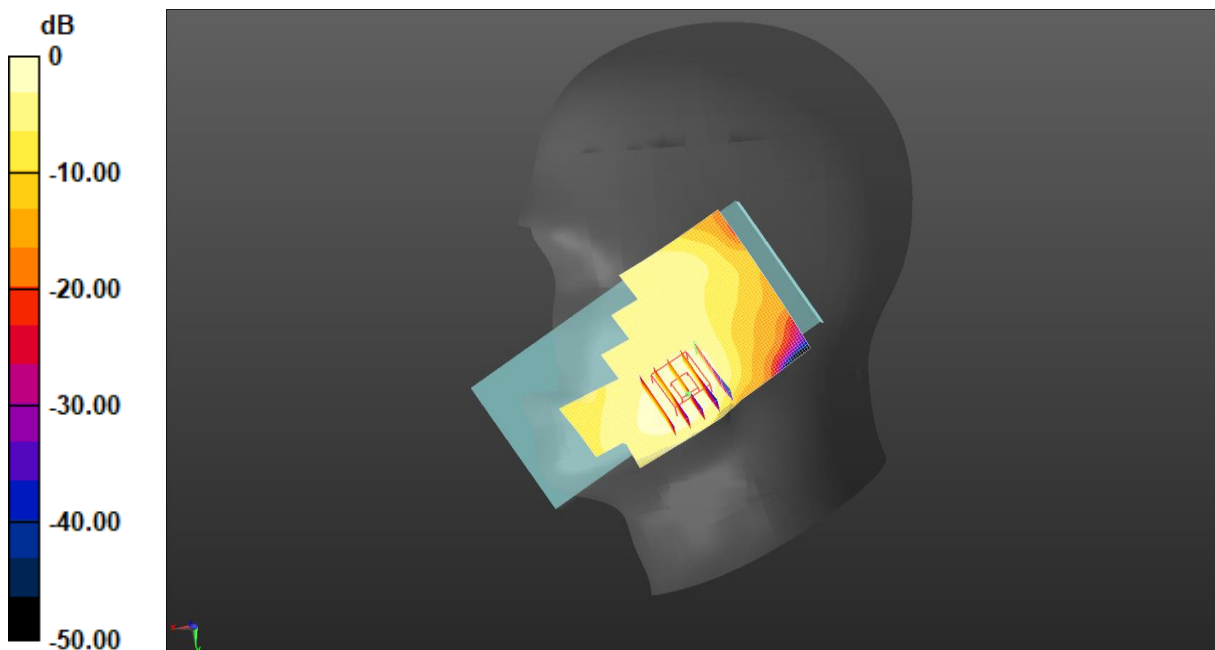
Peak SAR (extrapolated) = 0.106 W/kg

SAR(1 g) = 0.066 W/kg; SAR(10 g) = 0.038 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 16 mm)

Ratio of SAR at M2 to SAR at M1 = 67.3%

Maximum value of SAR (measured) = 0.0867 W/kg



0 dB = 0.108 W/kg = -9.65 dBW/kg

Test Laboratory: JYTSZ

Date: 09.07.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 40.471$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.3, 10.3, 10.3) @ 836.6 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 850 Right Cheek/Middle Channel/Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

WCDMA 850 Right Cheek/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.608 V/m; Power Drift = -0.06 dB

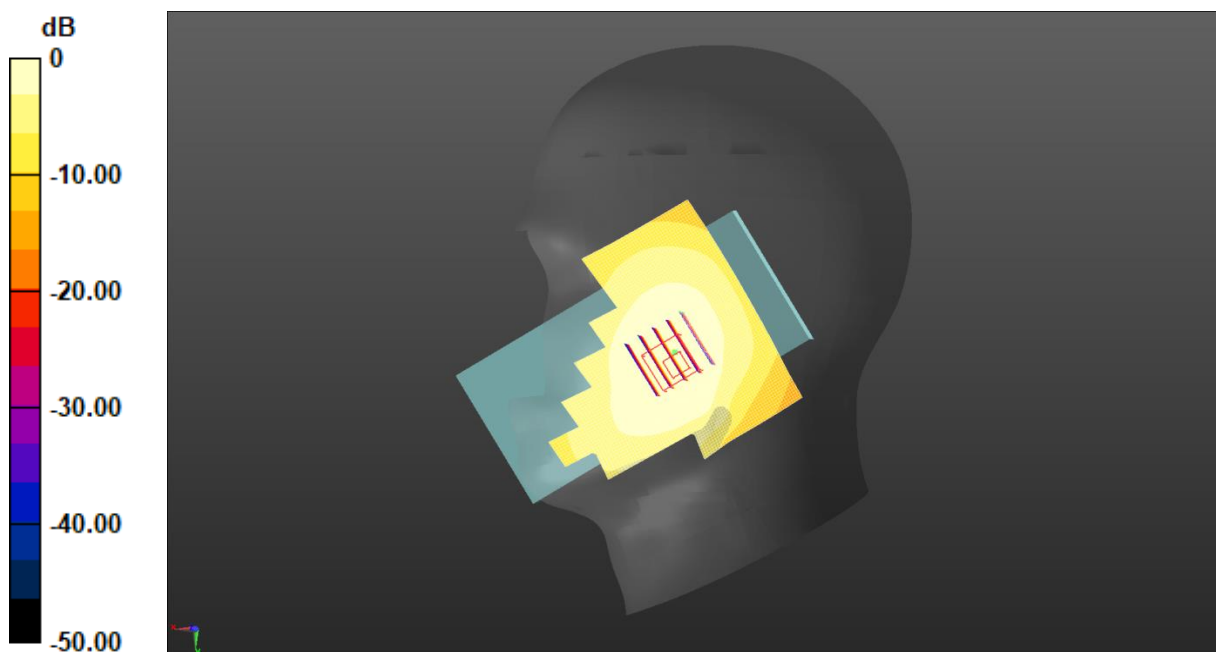
Peak SAR (extrapolated) = 0.158 W/kg

SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.082 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 16 mm)

Ratio of SAR at M2 to SAR at M1 = 71.4%

Maximum value of SAR (measured) = 0.140 W/kg



0 dB = 0.144 W/kg = -8.42 dBW/kg

Test Laboratory: JYTSZ

Date: 09.17.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.405$ S/m; $\epsilon_r = 38.742$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.44, 8.44, 8.44) @ 1880 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 2 1RB(20MHz) Right Cheek/Middle Channel/Area Scan (81x71x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.200 W/kg

LTE Band 2 1RB(20MHz) Right Cheek/Middle Channel/Zoom Scan

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

Reference Value = 3.785 V/m; Power Drift = 0.12 dB

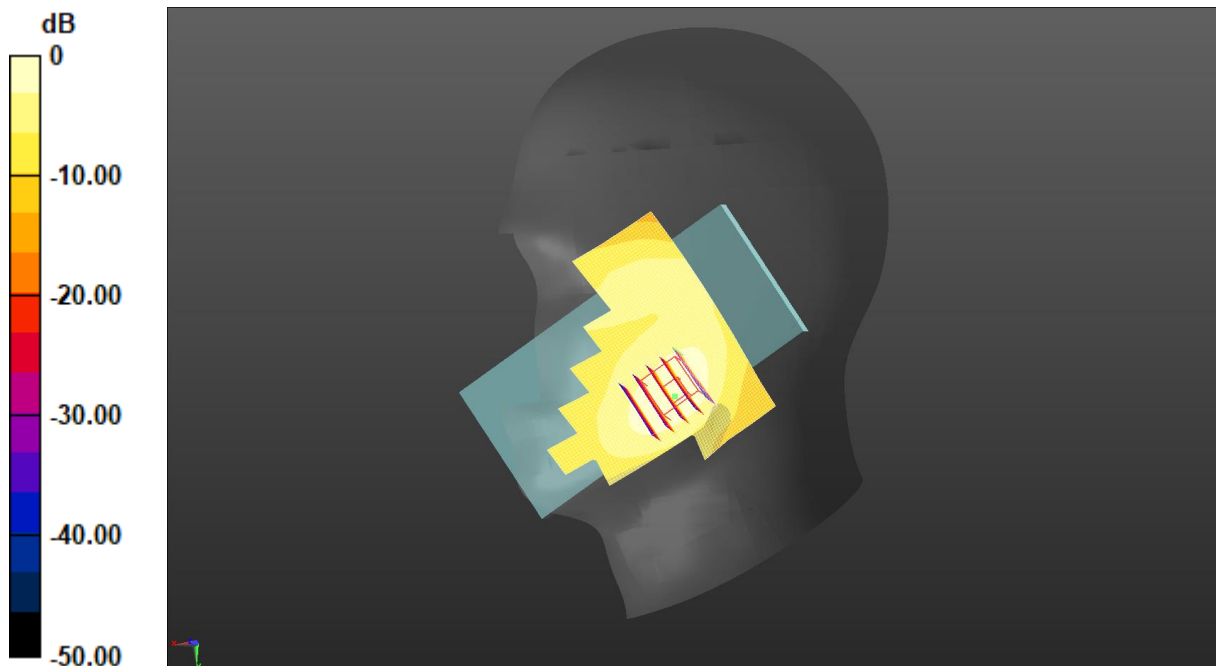
Peak SAR (extrapolated) = 0.215 W/kg

SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.082 W/kg

Smallest distance from peaks to all points 3 dB below = 13.5 mm

Ratio of SAR at M2 to SAR at M1 = 63.2%

Maximum value of SAR (measured) = 0.181 W/kg



0 dB = 0.200 W/kg = -6.99 dBW/kg

Test Laboratory: JYTSZ

Date: 09.07.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 40.471$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.3, 10.3, 10.3) @ 836.5 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 5 1RB(10MHz) Right Cheek/Middle Channel/Area Scan (81x81x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.140 W/kg

LTE Band 5 1RB(10MHz) Right Cheek/Middle Channel/Zoom Scan

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

Reference Value = 4.017 V/m; Power Drift = 0.16 dB

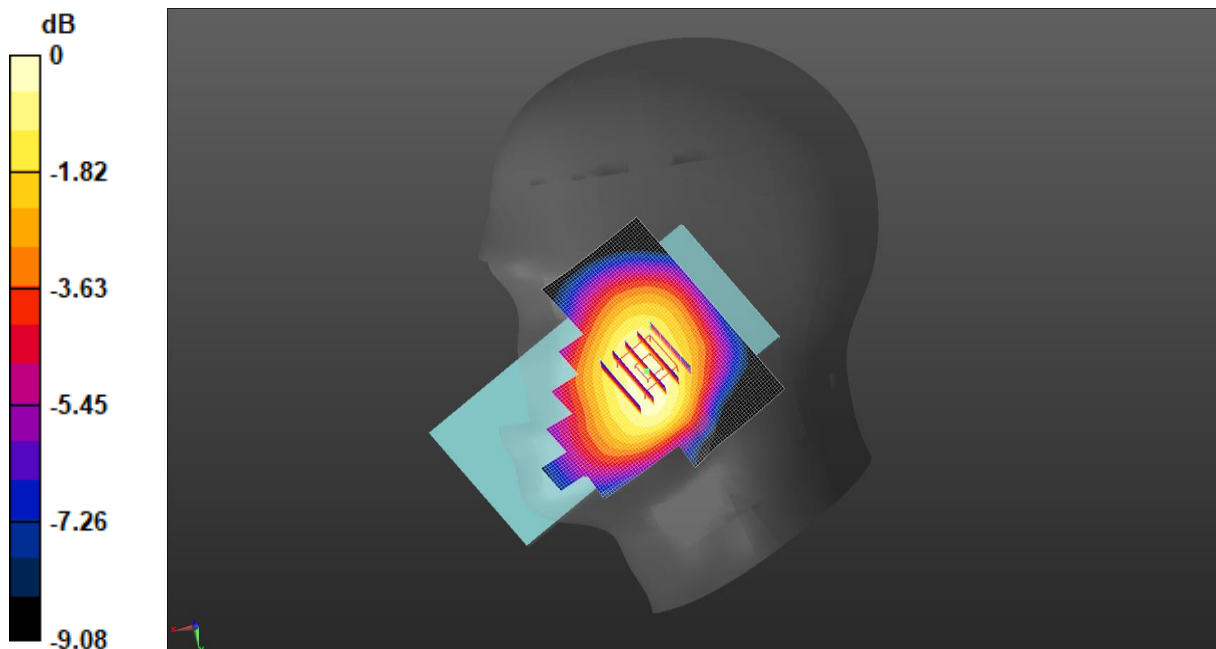
Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.114 W/kg; SAR(10 g) = 0.086 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 16 mm)

Ratio of SAR at M2 to SAR at M1 = 73.7%

Maximum value of SAR (measured) = 0.141 W/kg



0 dB = 0.141 W/kg = -8.51 dBW/kg

Test Laboratory: JYTSZ

Date: 09.21.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.858$ S/m; $\epsilon_r = 37.809$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.89, 7.89, 7.89) @ 2510 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 7 1RB(20MHz) Left Cheek/Low Channel/Area Scan (91x101x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.209 W/kg

LTE Band 7 1RB(20MHz) Left Cheek/Low Channel/Zoom Scan (7x7x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.749 V/m; Power Drift = -0.01 dB

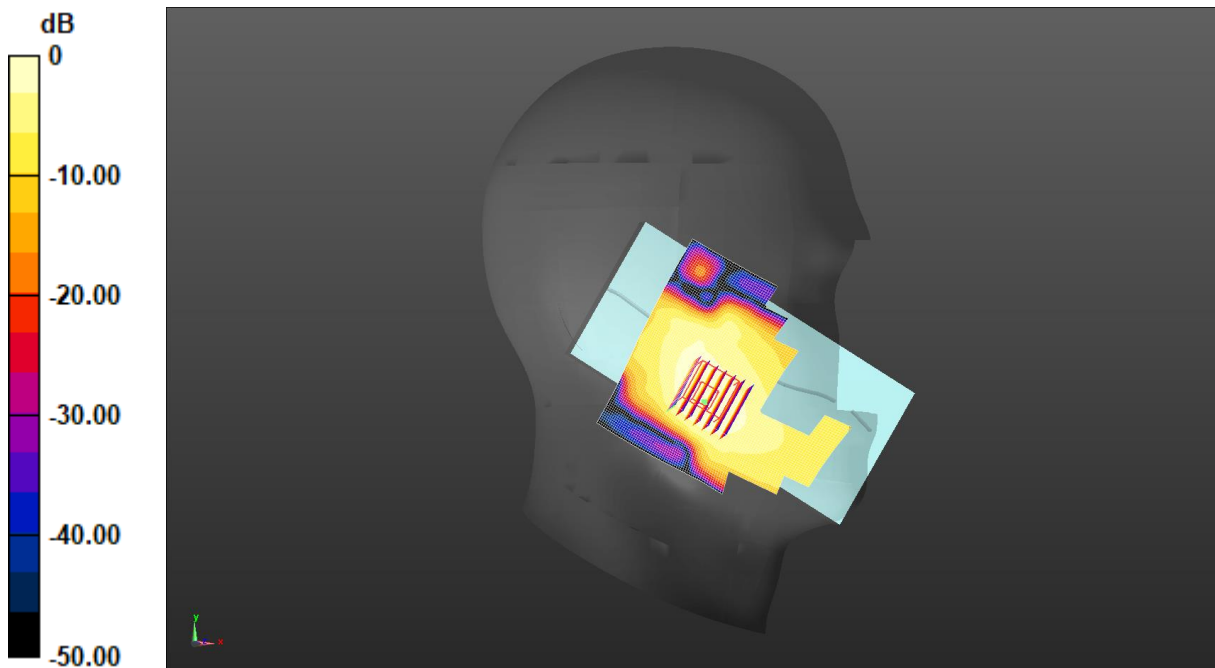
Peak SAR (extrapolated) = 0.232 W/kg

SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.068 W/kg

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 53.3%

Maximum value of SAR (measured) = 0.190 W/kg



0 dB = 0.209 W/kg = -6.80 dBW/kg

Test Laboratory: JYTSZ

Date: 09.03.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.856$ S/m; $\epsilon_r = 40.787$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.71, 10.71, 10.71) @ 707.5 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 12 1RB(10MHz) Left Cheek/Middle Channel/Area Scan (71x91x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.114 W/kg

LTE Band 12 1RB(10MHz) Left Cheek/Middle Channel/Zoom Scan

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

Reference Value = 3.357 V/m; Power Drift = 0.07 dB

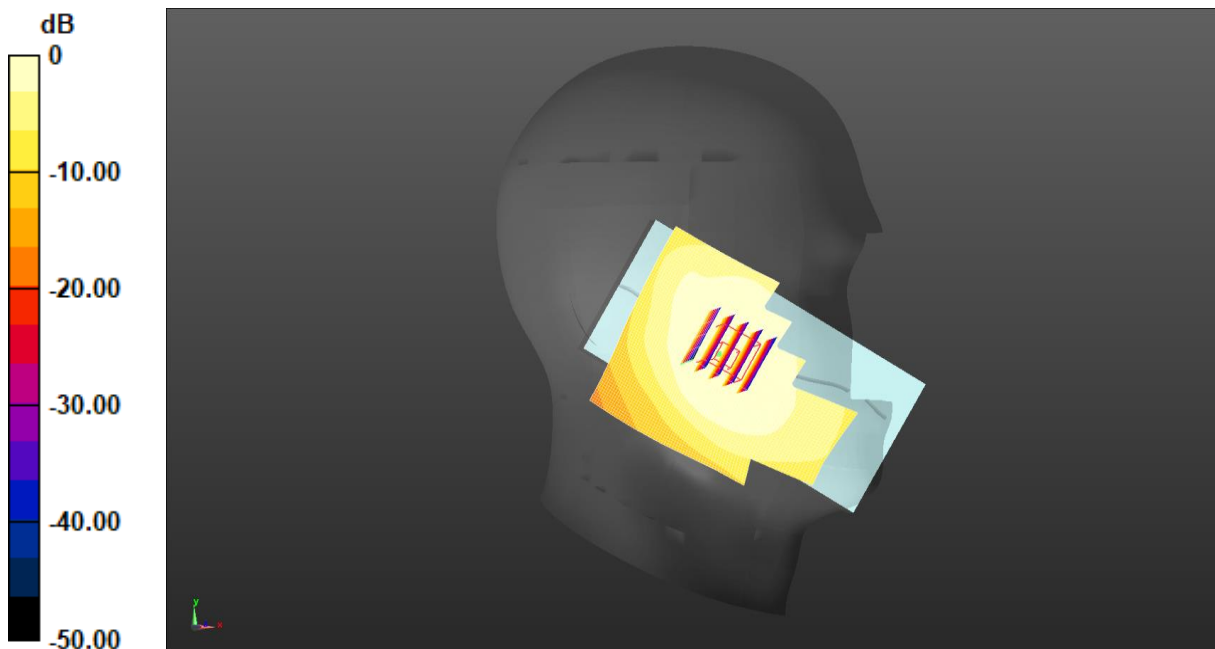
Peak SAR (extrapolated) = 0.125 W/kg

SAR(1 g) = 0.091 W/kg; SAR(10 g) = 0.069 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 16 mm)

Ratio of SAR at M2 to SAR at M1 = 73.8%

Maximum value of SAR (measured) = 0.112 W/kg



0 dB = 0.114 W/kg = -9.44 dBW/kg

Test Laboratory: JYTSZ

Date: 09.14.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.317$ S/m; $\epsilon_r = 38.979$; $\rho = 1000$ kg/m³
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.73, 8.73, 8.73) @ 1720 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 66 1RB(20MHz) Right Cheek/Low Channel/Area Scan (61x81x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

LTE Band 66 1RB(20MHz) Right Cheek/Low Channel/Zoom Scan

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

Reference Value = 2.805 V/m; Power Drift = 0.07 dB

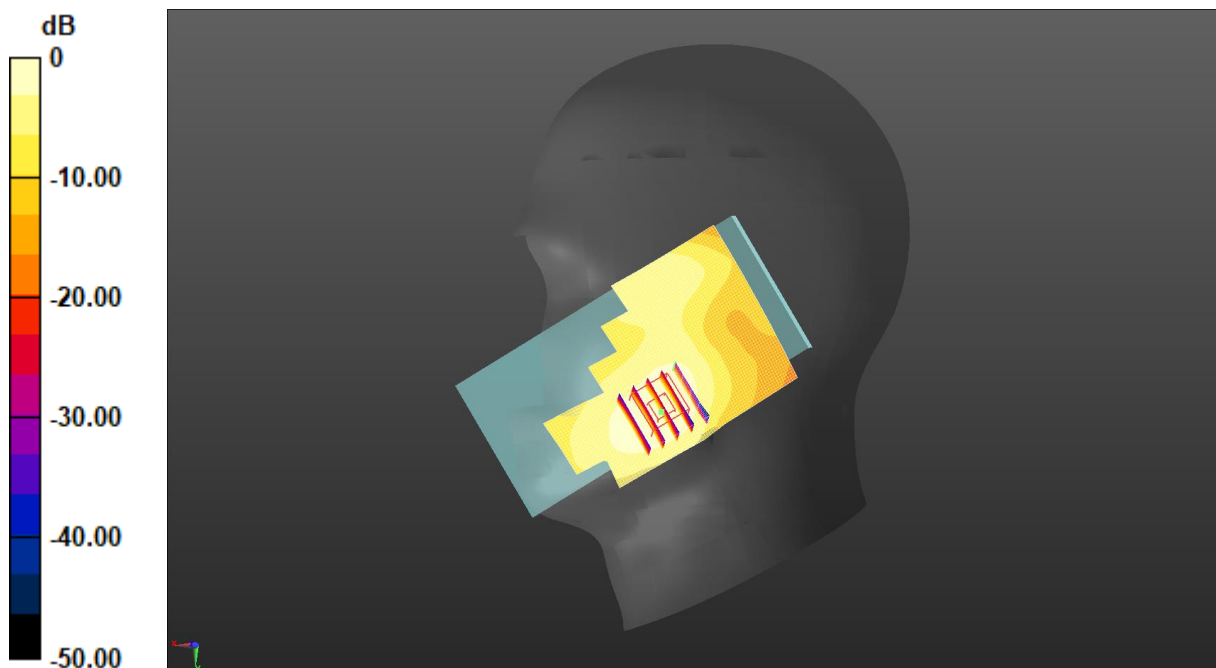
Peak SAR (extrapolated) = 0.122 W/kg

SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.048 W/kg

Smallest distance from peaks to all points 3 dB below = 14.8 mm

Ratio of SAR at M2 to SAR at M1 = 63.9%

Maximum value of SAR (measured) = 0.105 W/kg



0 dB = 0.107 W/kg = -9.73 dBW/kg

Test Laboratory: JYTSZ

Date: 09.03.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 673 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 673$ MHz; $\sigma = 0.847$ S/m; $\epsilon_r = 40.88$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.71, 10.71, 10.71) @ 673 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 71 1RB(20MHz) Left Cheek/Low Channel/Area Scan (71x91x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0832 W/kg

LTE Band 71 1RB(20MHz) Left Cheek/Low Channel/Zoom Scan

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

Reference Value = 2.834 V/m; Power Drift = 0.01 dB

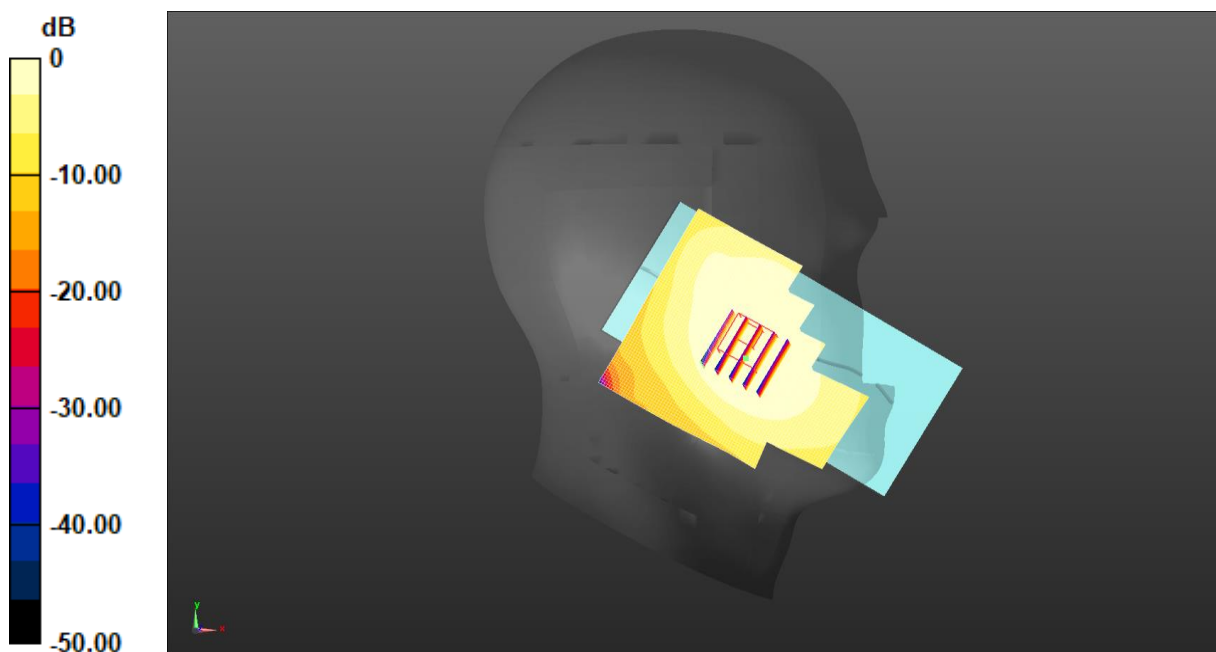
Peak SAR (extrapolated) = 0.0940 W/kg

SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.052 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 16 mm)

Ratio of SAR at M2 to SAR at M1 = 73.2%

Maximum value of SAR (measured) = 0.0840 W/kg



0 dB = 0.0832 W/kg = -10.80 dBW/kg

Test Laboratory: JYTSZ

Date: 09.21.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

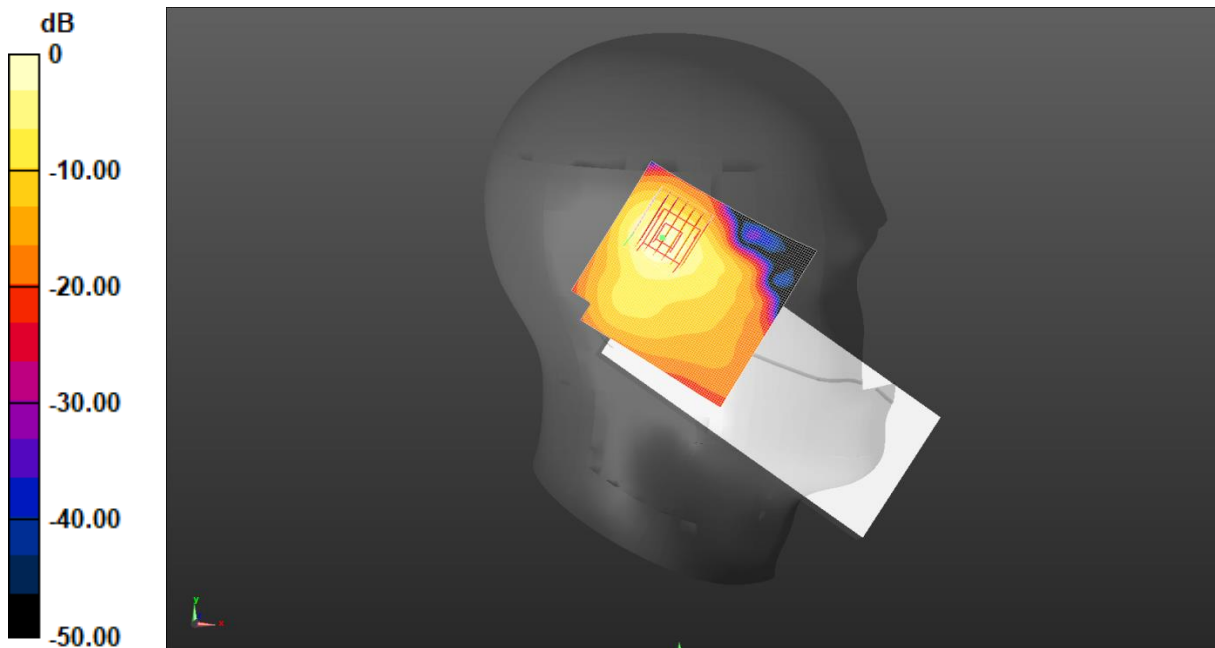
Communication System: UID 0, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) (0);
Frequency: 2437 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.797$ S/m; $\epsilon_r = 37.946$; $\rho = 1000$ kg/m³
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.89, 7.89, 7.89) @ 2437 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

2.4G WIFI Left Tilted/Middle Channel/Area Scan (81x81x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.314 W/kg

2.4G WIFI Left Tilted/Middle Channel/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.632 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.450 W/kg
SAR(1 g) = 0.190 W/kg; SAR(10 g) = 0.080 W/kg
Smallest distance from peaks to all points 3 dB below = 7.7 mm
Ratio of SAR at M2 to SAR at M1 = 42.4%
Maximum value of SAR (measured) = 0.348 W/kg



0 dB = 0.314 W/kg = -5.03 dBW/kg

Test Laboratory: JYTSZ

Date: 09.25.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5180 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 4.482 \text{ S/m}$; $\epsilon_r = 35.513$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.51, 5.51, 5.51) @ 5180 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.2G WIFI Left Cheek/Low Channel/Area Scan (101x101x1): Interpolated grid:

$dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.821 W/kg

5.2G WIFI Left Cheek/Low Channel/Zoom Scan (7x7x12)/Cube 0: Measurement

grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.397 V/m; Power Drift = -0.06 dB

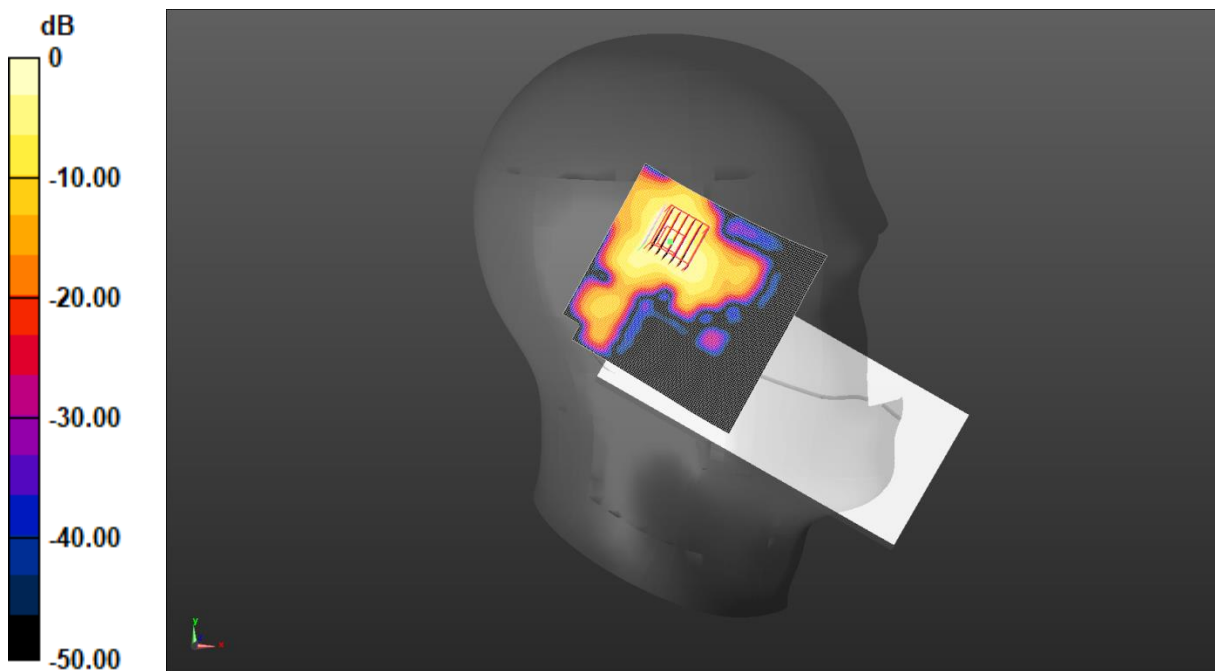
Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.323 W/kg; SAR(10 g) = 0.097 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 55.9%

Maximum value of SAR (measured) = 0.763 W/kg



$$0 \text{ dB} = 0.763 \text{ W/kg} = -1.17 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 09.25.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 5.093$ S/m; $\epsilon_r = 34.689$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.01, 5.01, 5.01) @ 5825 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.8G WIFI Left Cheek/High Channel/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.299 W/kg

5.8G WIFI Left Cheek/High Channel/Zoom Scan (7x7x12)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

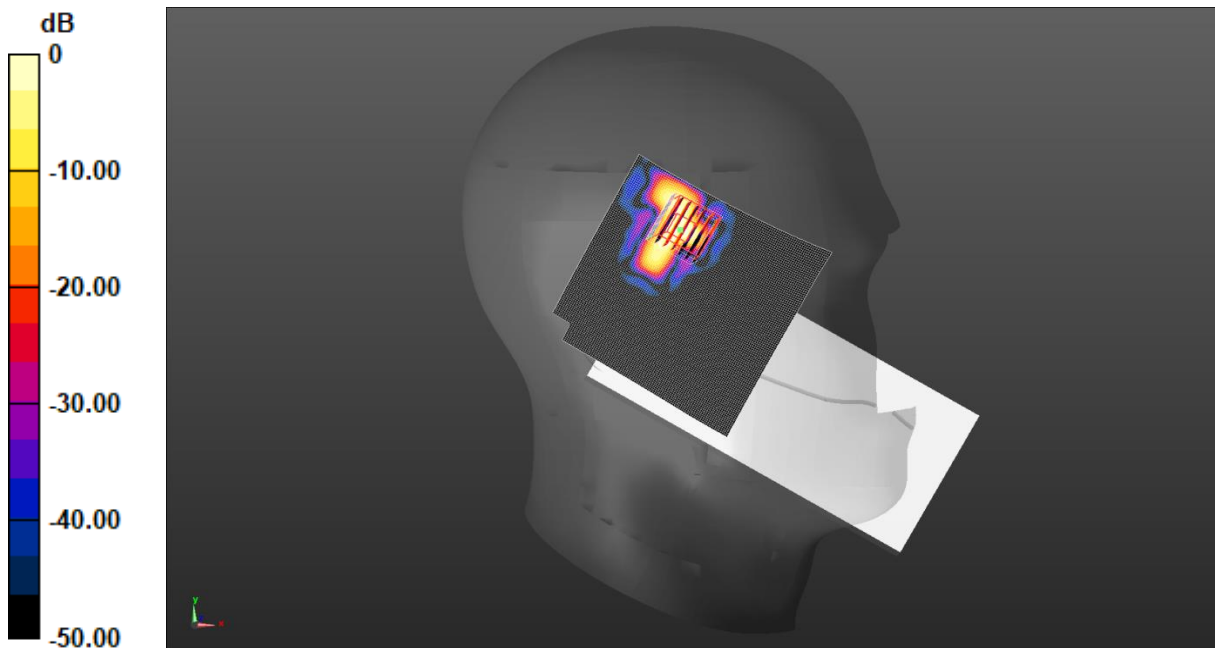
Peak SAR (extrapolated) = 0.366 W/kg

SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.018 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 43%

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



0 dB = 0.207 W/kg = -6.84 dBW/kg

Test Laboratory: JYTSZ

Date: 09.21.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.833 \text{ S/m}$; $\epsilon_r = 37.865$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.89, 7.89, 7.89) @ 2480 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Bluetooth Left Cheek/High Channel/Area Scan (81x81x1): Interpolated grid:

$dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0236 W/kg

Bluetooth Left Cheek/High Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 0 V/m; Power Drift = 0.00 dB

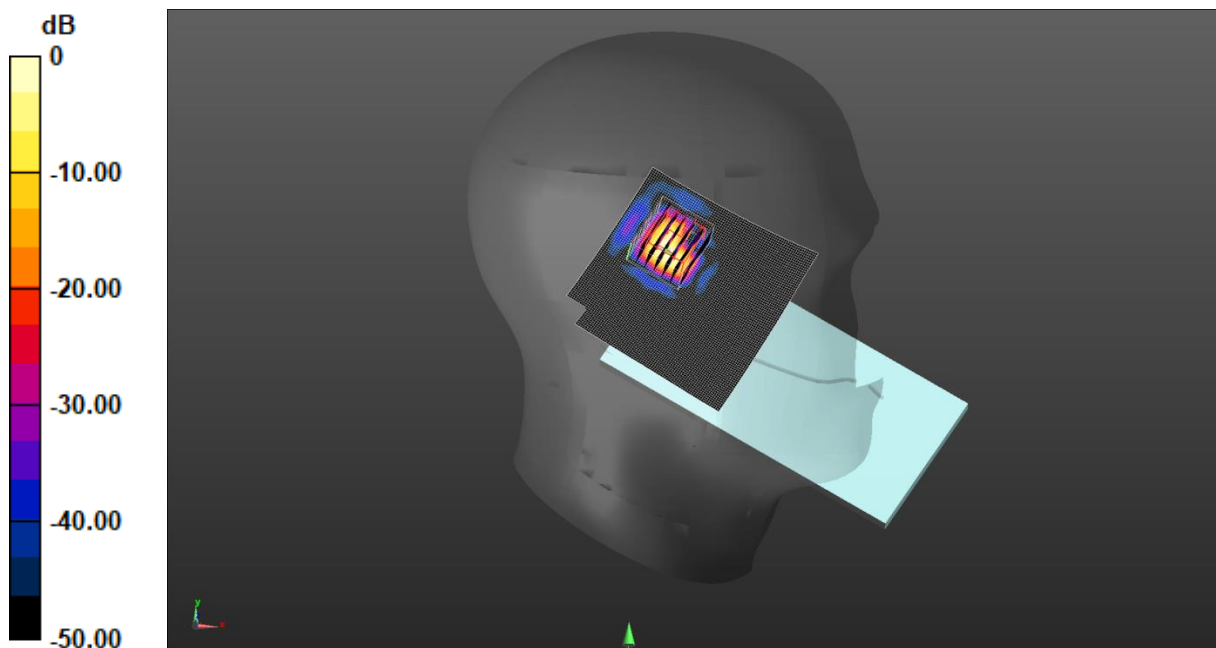
Peak SAR (extrapolated) = 0.0200 W/kg

SAR(1 g) = 0.00643 W/kg; SAR(10 g) = 0.00157 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)

Ratio of SAR at M2 to SAR at M1 = 29.7%

Maximum value of SAR (measured) = 0.0137 W/kg



0 dB = 0.0236 W/kg = -16.27 dBW/kg

Test Laboratory: JYTSZ

Date: 09.07.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, GPRS(4 Slots) (0); Frequency: 848.8 MHz; Duty Cycle: 1:1.99986

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 40.446$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.3, 10.3, 10.3) @ 848.8 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GPRS 850 4Slots Body Back/High Channel/Area Scan (61x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.557 W/kg

GPRS 850 4Slots Body Back/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.30 V/m; Power Drift = -0.04 dB

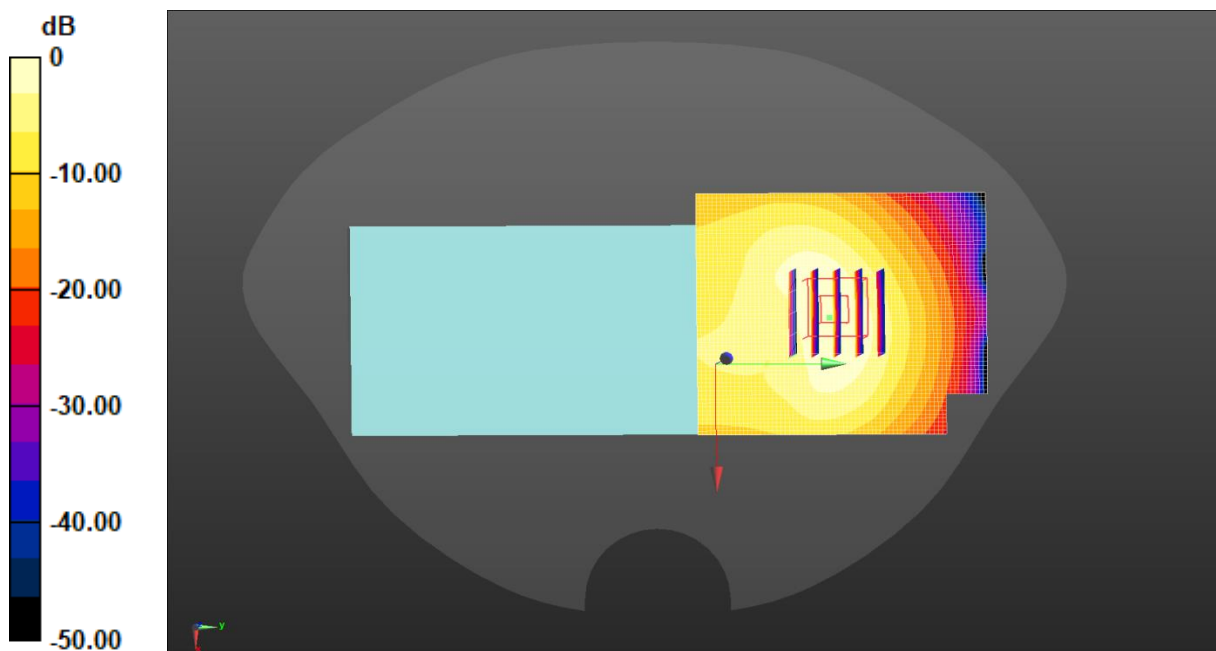
Peak SAR (extrapolated) = 0.709 W/kg

SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.206 W/kg

Smallest distance from peaks to all points 3 dB below = 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 0.572 W/kg



$$0 \text{ dB} = 0.557 \text{ W/kg} = -2.54 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 09.17.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, GPRS(4 Slots) (0); Frequency: 1880 MHz; Duty Cycle: 1:1.99986

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.405 \text{ S/m}$; $\epsilon_r = 38.742$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

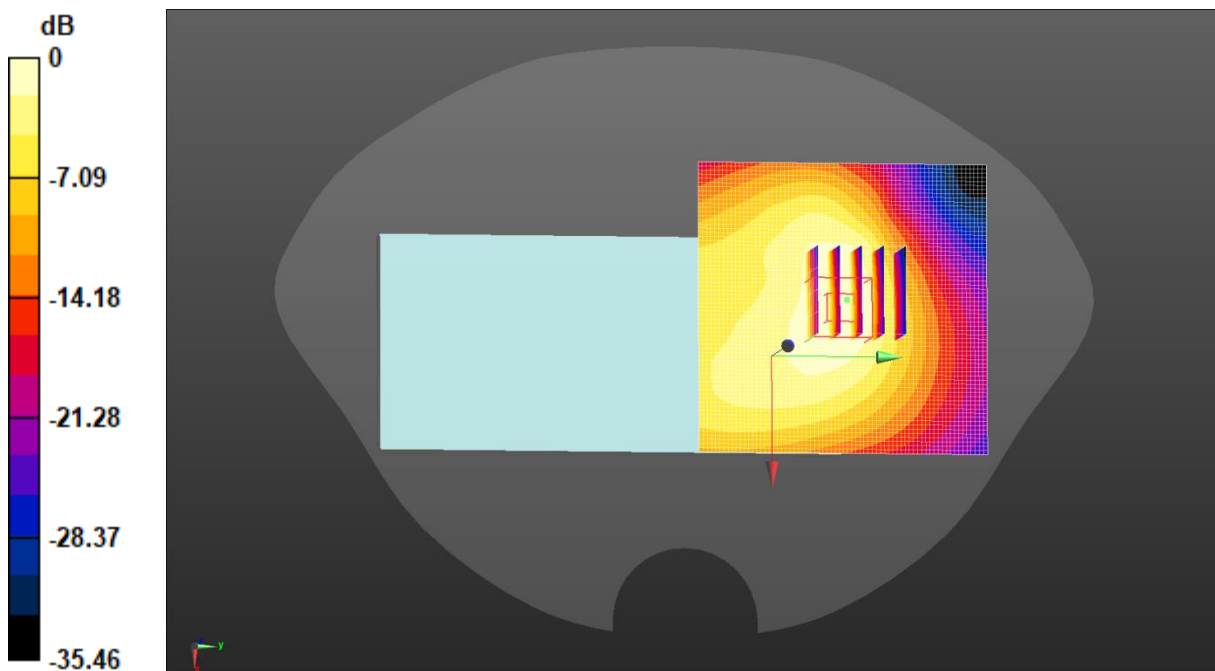
- Probe: EX3DV4 - SN7601; ConvF(8.44, 8.44, 8.44) @ 1880 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GPRS 1900 4Slots Body Back/Middle Channel/Area Scan (71x71x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.636 W/kg

GPRS 1900 4Slots Body Back/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.31 V/m ; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.815 W/kg
SAR(1 g) = 0.473 W/kg ; SAR(10 g) = 0.268 W/kg
Smallest distance from peaks to all points 3 dB below = 12.8 mm
Ratio of SAR at M2 to SAR at M1 = 56.5%
Maximum value of SAR (measured) = 0.659 W/kg



$$0 \text{ dB} = 0.636 \text{ W/kg} = -1.96 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 09.17.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.424$ S/m; $\epsilon_r = 38.702$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.44, 8.44, 8.44) @ 1907.6 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1900 Body Back/High Channel/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.39 W/kg

WCDMA 1900 Body Back/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.64 V/m; Power Drift = -0.03 dB

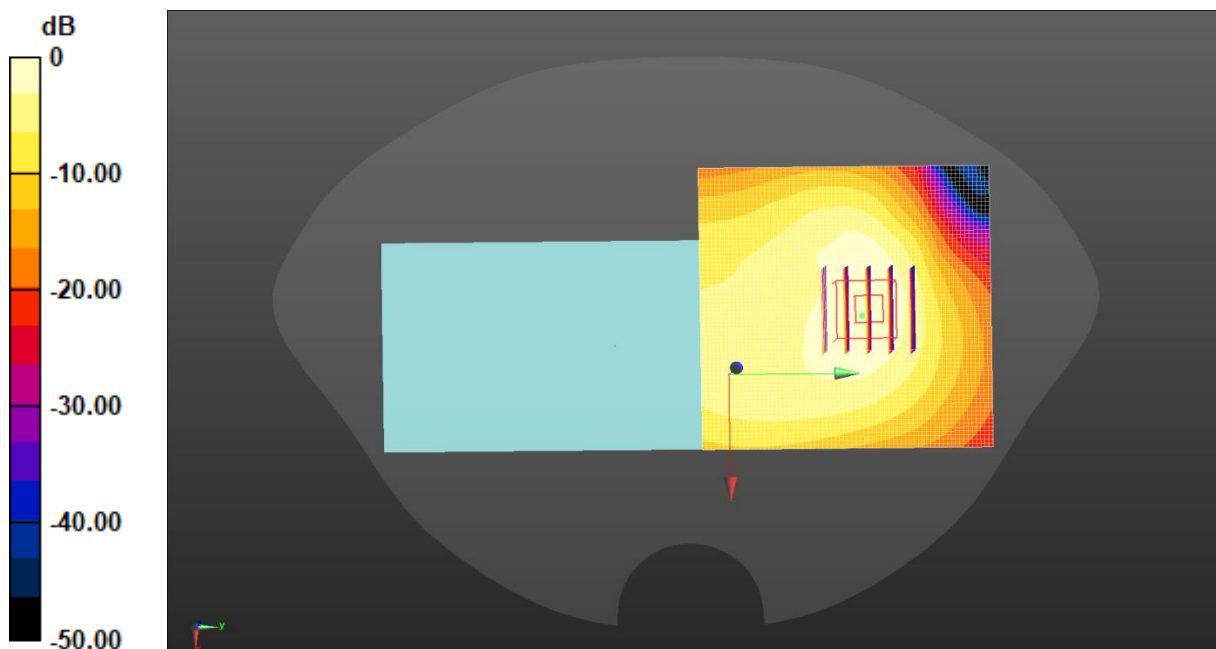
Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.981 W/kg; SAR(10 g) = 0.552 W/kg

Smallest distance from peaks to all points 3 dB below = 14.3 mm

Ratio of SAR at M2 to SAR at M1 = 58.2%

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



0 dB = 1.39 W/kg = 1.42 dBW/kg

Test Laboratory: JYTSZ

Date: 09.14.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.335$ S/m; $\epsilon_r = 38.918$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.73, 8.73, 8.73) @ 1752.6 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1700 Body Back/High Channel/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.39 W/kg

WCDMA 1700 Body Back/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.93 V/m; Power Drift = -0.05 dB

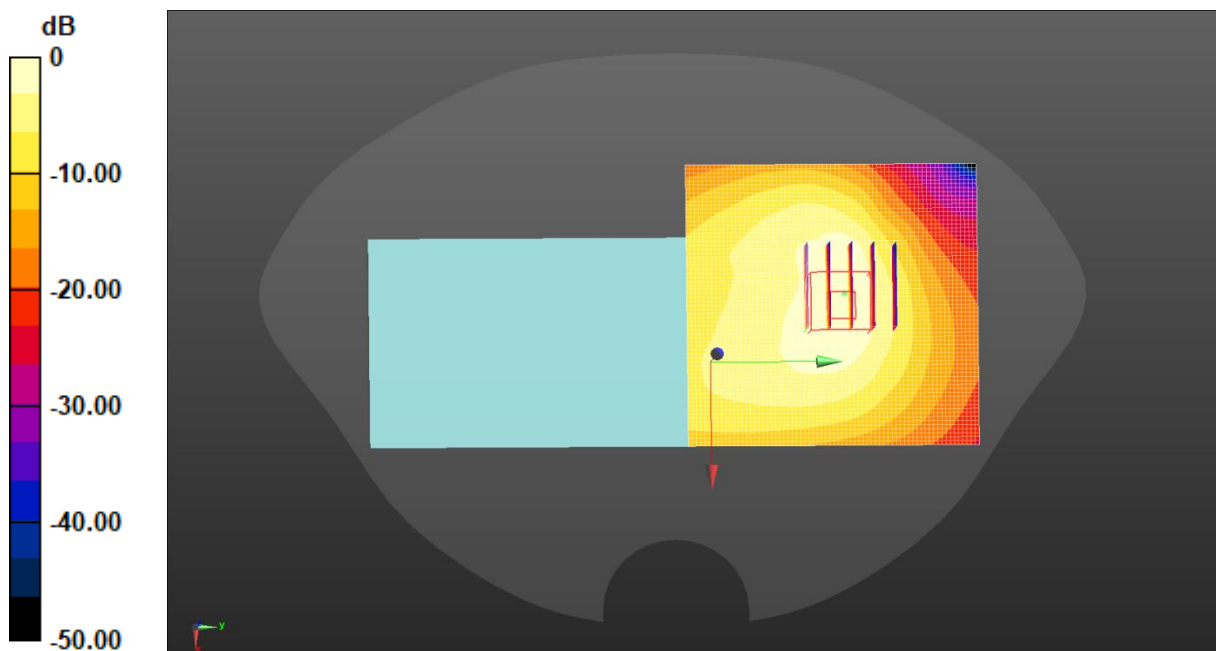
Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.972 W/kg; SAR(10 g) = 0.552 W/kg

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 59%

Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.39 W/kg = 1.44 dBW/kg

Test Laboratory: JYTSZ

Date: 09.07.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 40.471$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.3, 10.3, 10.3) @ 836.6 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 850 Body Back/Middle Channel/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

WCDMA 850 Body Back/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.03 V/m; Power Drift = 0.03 dB

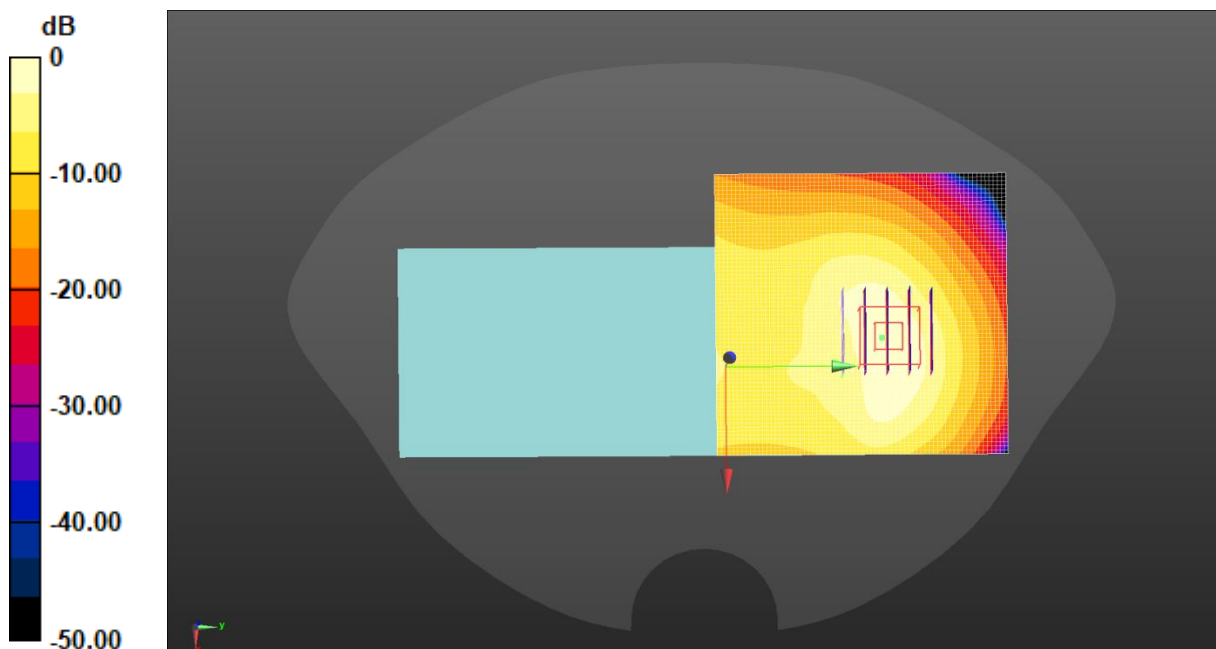
Peak SAR (extrapolated) = 0.671 W/kg

SAR(1 g) = 0.337 W/kg; SAR(10 g) = 0.185 W/kg

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 0.537 W/kg



0 dB = 0.525 W/kg = -2.80 dBW/kg

Test Laboratory: JYTSZ

Date: 09.17.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 38.77$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.44, 8.44, 8.44) @ 1860 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 2 1RB(20MHz) Body Back/Low Channel/Area Scan (61x71x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.32 W/kg

LTE Band 2 1RB(20MHz) Body Back/Low Channel/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.46 V/m; Power Drift = 0.00 dB

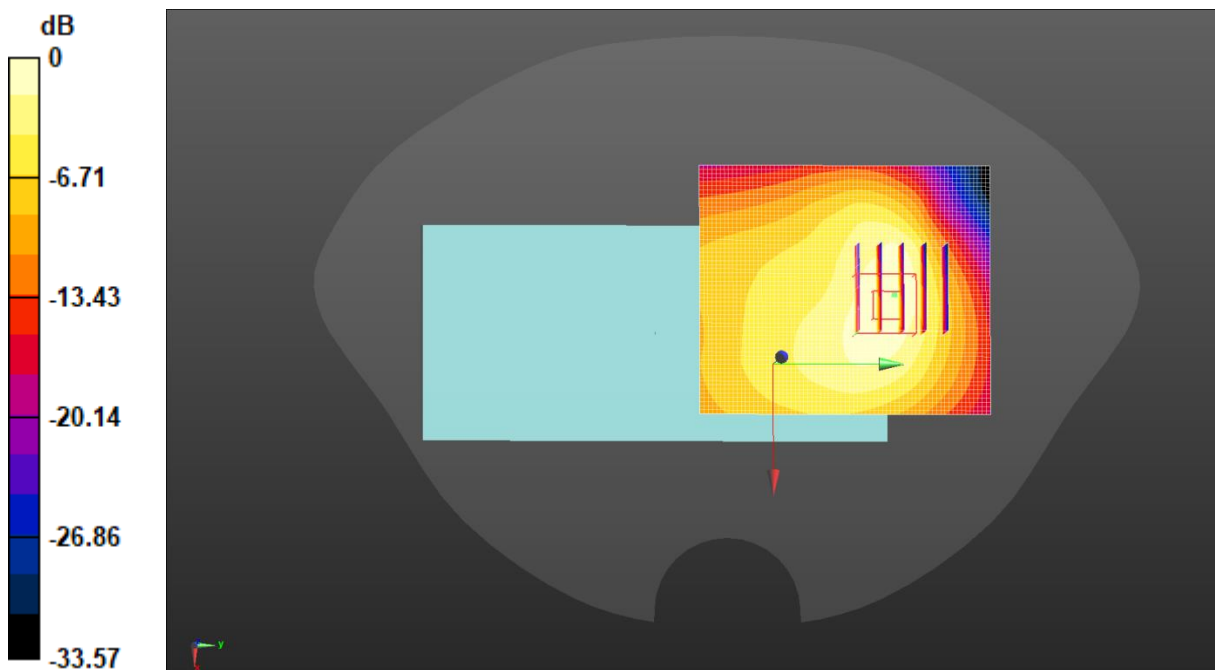
Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.877 W/kg; SAR(10 g) = 0.485 W/kg

Smallest distance from peaks to all points 3 dB below = 12.8 mm

Ratio of SAR at M2 to SAR at M1 = 54.8%

Maximum value of SAR (measured) = 1.24 W/kg



0 dB = 1.32 W/kg = 1.19 dBW/kg

Test Laboratory: JYTSZ

Date: 09.07.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 40.471$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.3, 10.3, 10.3) @ 836.5 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 5 1RB(10MHz) Body Back/Middle Channel/Area Scan (61x71x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.454 W/kg

LTE Band 5 1RB(10MHz) Body Back/Middle Channel/Zoom Scan

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

Reference Value = 13.49 V/m; Power Drift = -0.20 dB

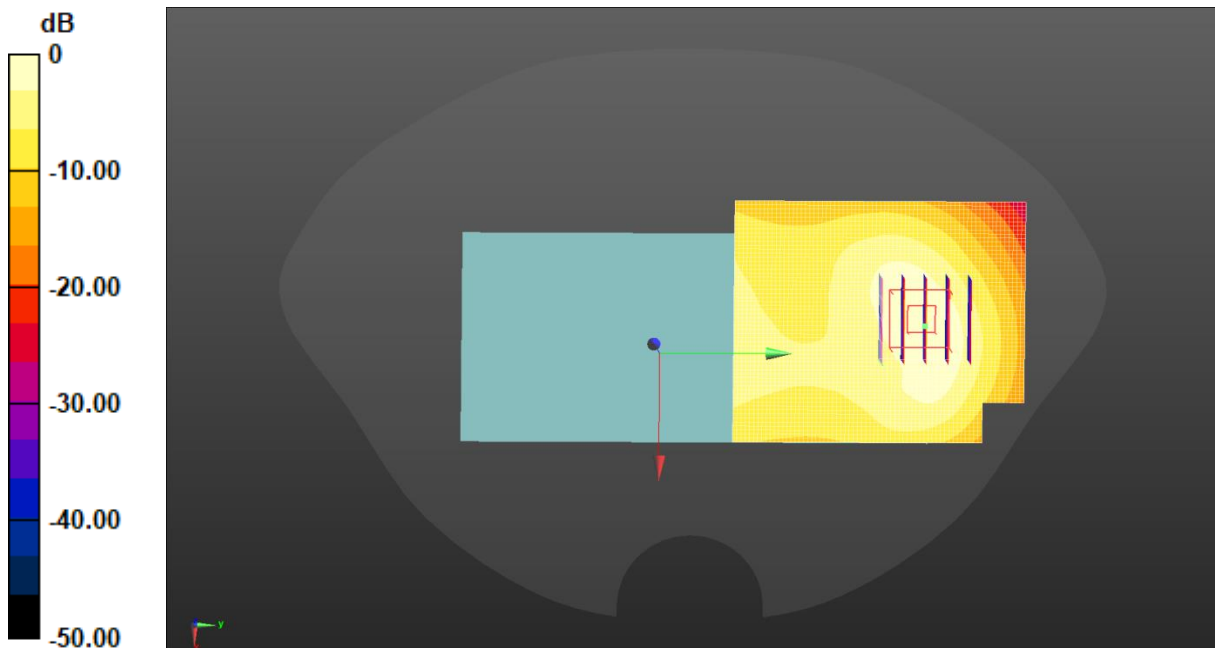
Peak SAR (extrapolated) = 0.597 W/kg

SAR(1 g) = 0.304 W/kg; SAR(10 g) = 0.168 W/kg

Smallest distance from peaks to all points 3 dB below = 11.5 mm

Ratio of SAR at M2 to SAR at M1 = 51.6%

Maximum value of SAR (measured) = 0.471 W/kg



0 dB = 0.454 W/kg = -3.43 dBW/kg

Test Laboratory: JYTSZ

Date: 09.21.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.778$ S/m; $\epsilon_r = 38.541$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.89, 7.89, 7.89) @ 2510 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 7 1RB(20MHz) Body Back/Low Channel/Area Scan (81x81x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.559 W/kg

LTE Band 7 1RB(20MHz) Body Back/Low Channel/Zoom Scan (7x7x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.357 V/m; Power Drift = 0.16 dB

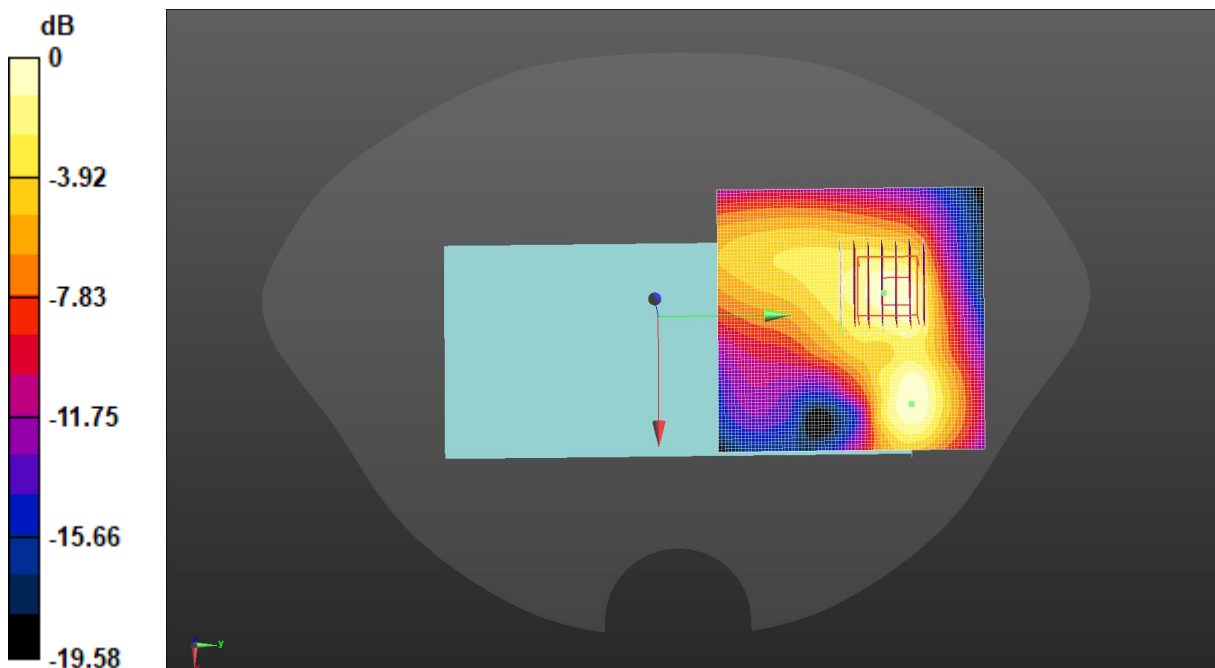
Peak SAR (extrapolated) = 0.798 W/kg

SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.167 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 45.8%

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



0 dB = 0.559 W/kg = -2.52 dBW/kg

Test Laboratory: JYTSZ

Date: 09.03.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.856$ S/m; $\epsilon_r = 40.787$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.71, 10.71, 10.71) @ 707.5 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 12 1RB(10MHz) Body Back/Middle Channel/Area Scan (71x71x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

LTE Band 12 1RB(10MHz) Body Back/Middle Channel/Zoom Scan

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

Reference Value = 15.97 V/m; Power Drift = 0.00 dB

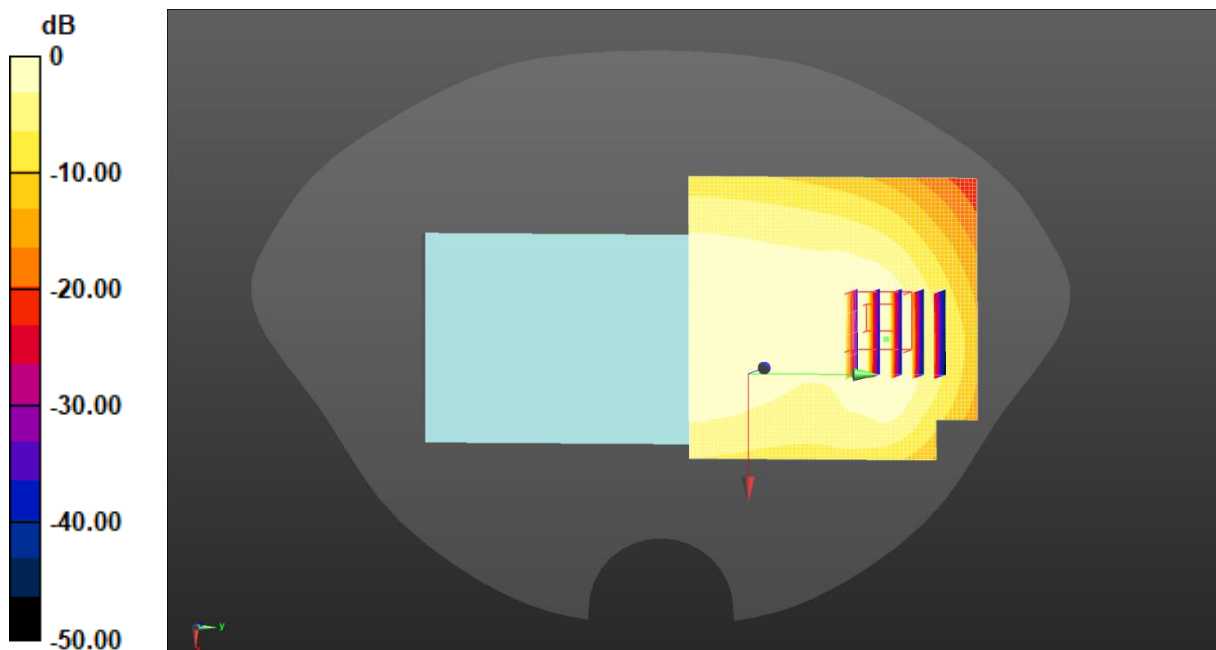
Peak SAR (extrapolated) = 0.288 W/kg

SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.090 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 49.7%

Maximum value of SAR (measured) = 0.228 W/kg



0 dB = 0.244 W/kg = -6.13 dBW/kg

Test Laboratory: JYTSZ

Date: 09.14.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.307$ S/m; $\epsilon_r = 39.504$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.73, 8.73, 8.73) @ 1745 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 66 1RB(20MHz) Body Back/Middle Channel/Area Scan (71x71x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

LTE Band 66 1RB(20MHz) Body Back/Middle Channel/Zoom Scan

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

Reference Value = 12.49 V/m; Power Drift = -0.14 dB

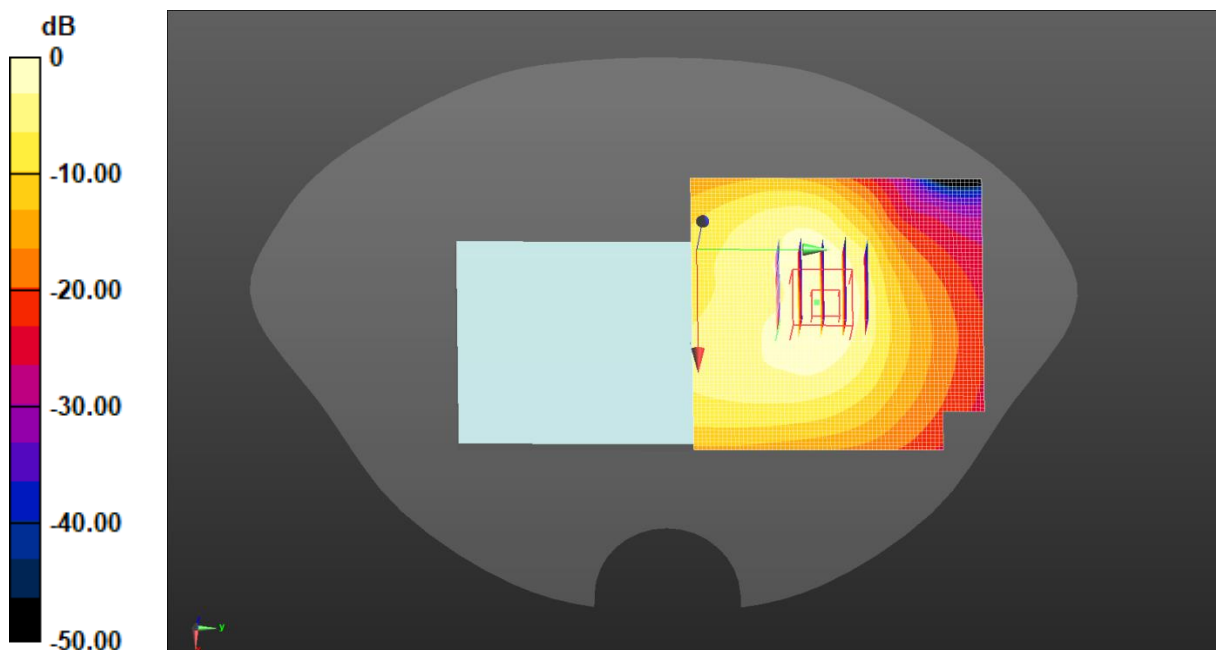
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.807 W/kg; SAR(10 g) = 0.454 W/kg

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 60%

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



0 dB = 1.06 W/kg = 0.25 dBW/kg

Test Laboratory: JYTSZ

Date: 09.03.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 673 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 673 \text{ MHz}$; $\sigma = 0.864 \text{ S/m}$; $\epsilon_r = 41.759$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.71, 10.71, 10.71) @ 673 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 71 1RB(20MHz) Body Back/Low Channel/Area Scan (71x71x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

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

LTE Band 71 1RB(20MHz) Body Back/Low Channel/Zoom Scan

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

Reference Value = 13.74 V/m; Power Drift = -0.12 dB

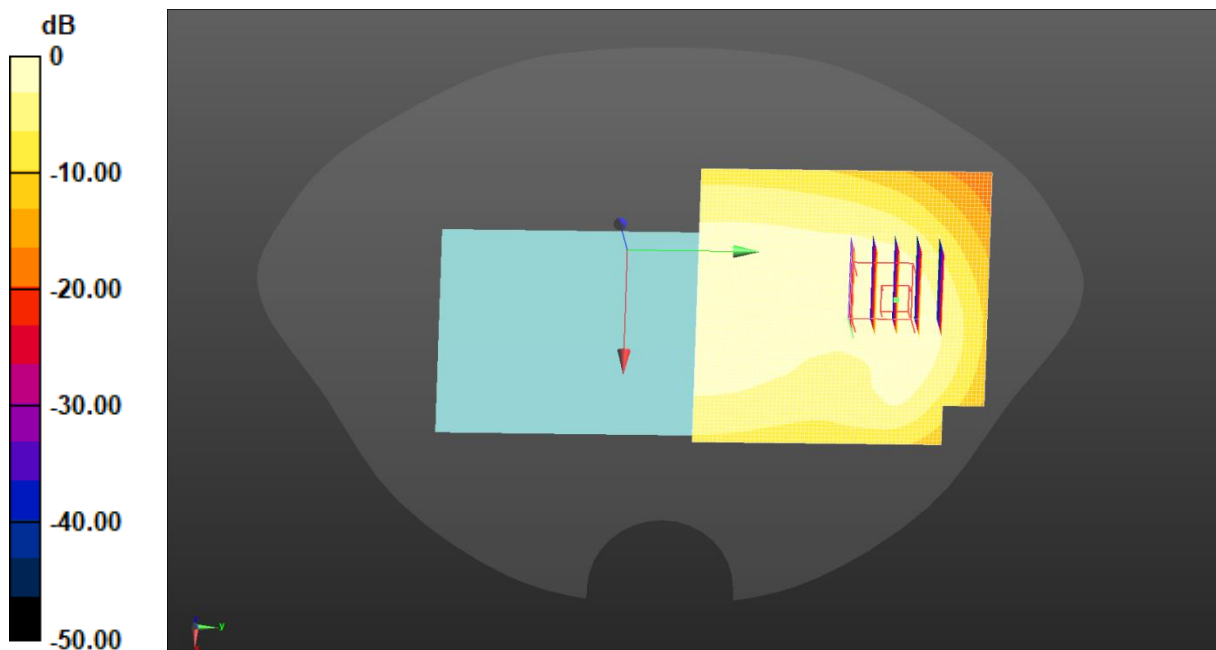
Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.132 W/kg; SAR(10 g) = 0.079 W/kg

Smallest distance from peaks to all points 3 dB below = 13.7 mm

Ratio of SAR at M2 to SAR at M1 = 50.5%

Maximum value of SAR (measured) = 0.203 W/kg



$0 \text{ dB} = 0.207 \text{ W/kg} = -6.83 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 09.21.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) (0);

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.797$ S/m; $\epsilon_r = 37.946$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.89, 7.89, 7.89) @ 2437 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

2.4G WiFi Body Back/Middle Channel/Area Scan (81x81x1): Interpolated grid:

$dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.131 W/kg

2.4G WiFi Body Back/Middle Channel/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.036 V/m; Power Drift = 0.05 dB

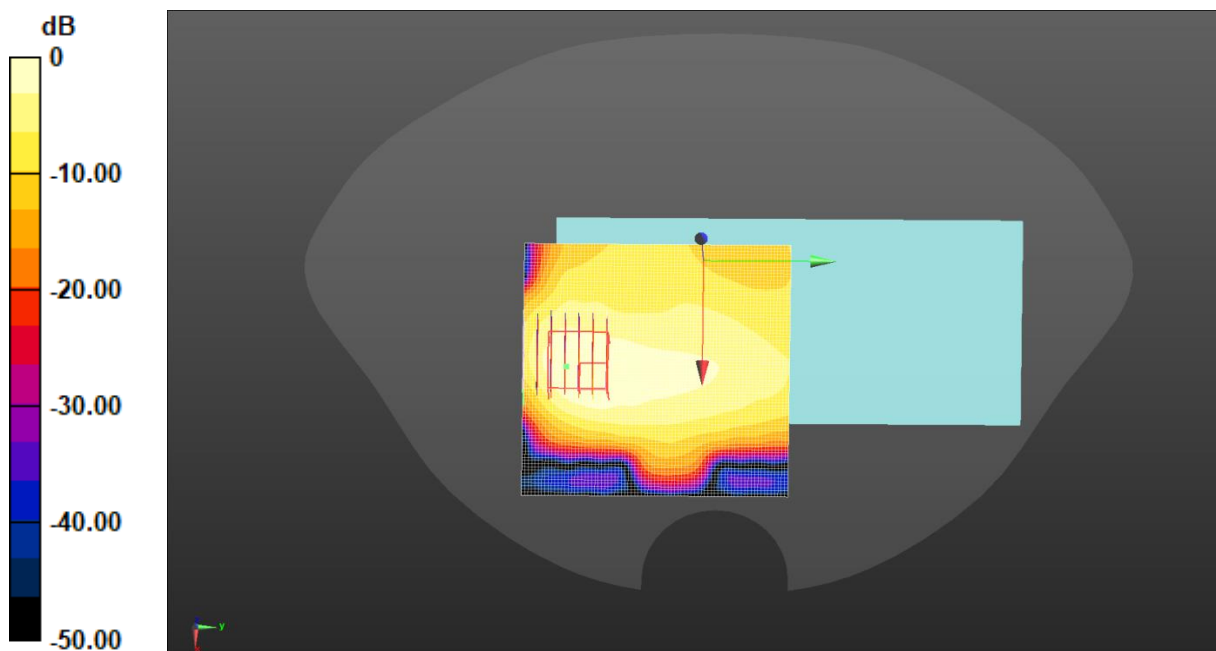
Peak SAR (extrapolated) = 0.140 W/kg

SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.034 W/kg

Smallest distance from peaks to all points 3 dB below = 11.7 mm

Ratio of SAR at M2 to SAR at M1 = 47.3%

Maximum value of SAR (measured) = 0.112 W/kg



0 dB = 0.131 W/kg = -8.84 dBW/kg

Test Laboratory: JYTSZ

Date: 09.25.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5180 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 4.454 \text{ S/m}$; $\epsilon_r = 35.426$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.51, 5.51, 5.51) @ 5180 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.2G WiFi Body Back/Low Channel/Area Scan (101x101x1): Interpolated grid:
 $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.406 W/kg

5.2G WiFi Body Back/Low Channel/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.441 V/m; Power Drift = 0.09 dB

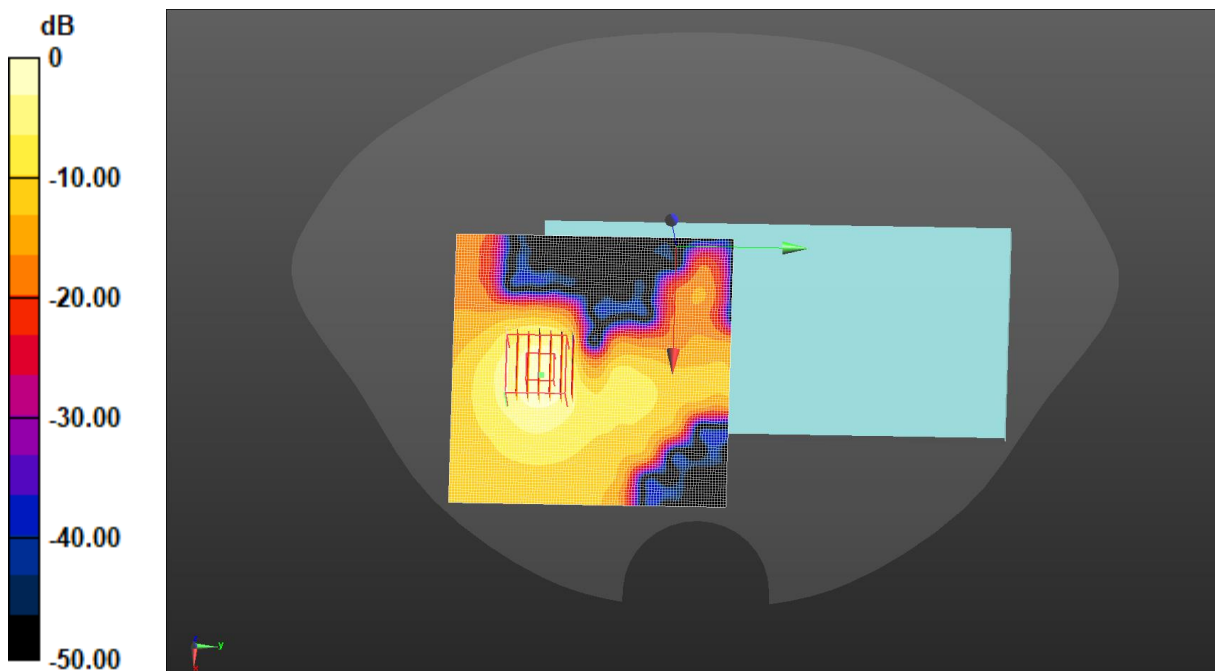
Peak SAR (extrapolated) = 0.615 W/kg

SAR(1 g) = 0.185 W/kg; SAR(10 g) = 0.063 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 0.408 W/kg



$$0 \text{ dB} = 0.408 \text{ W/kg} = -3.89 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 09.25.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 5.167$ S/m; $\epsilon_r = 34.908$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.01, 5.01, 5.01) @ 5825 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.8G WIFI Body Back/High Channel/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.148 W/kg

5.8G WIFI Body Back/High Channel/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.647 V/m; Power Drift = 0.04 dB

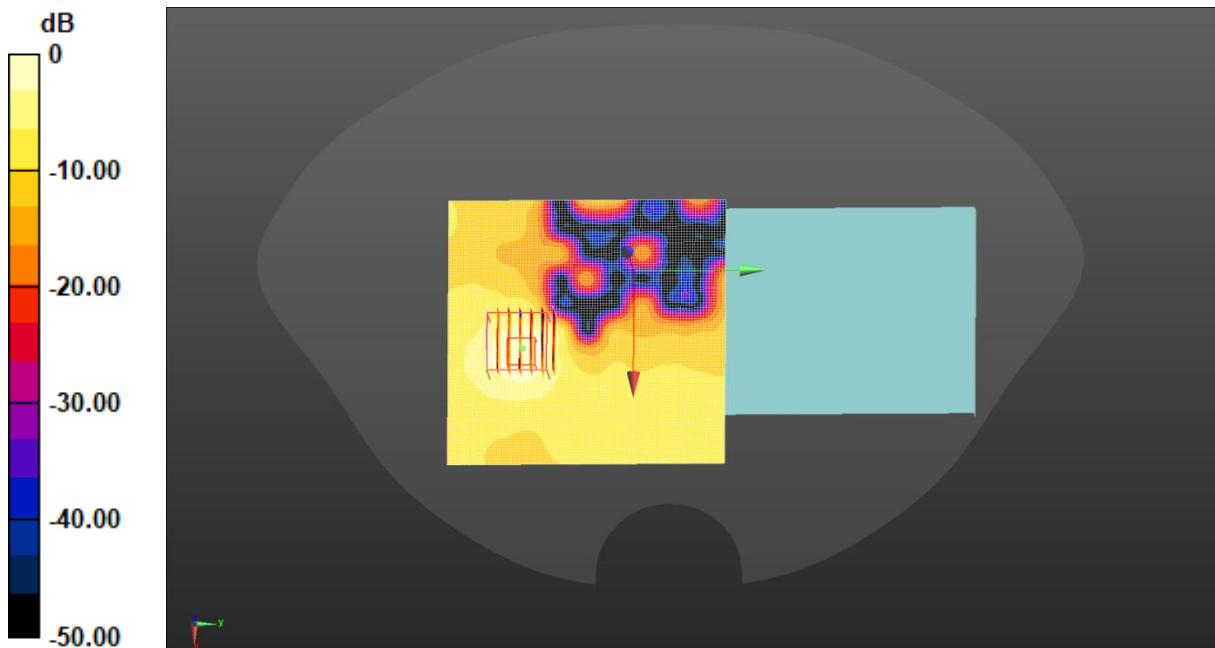
Peak SAR (extrapolated) = 0.624 W/kg

SAR(1 g) = 0.060 W/kg; SAR(10 g) = 0.020 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.9%

Maximum value of SAR (measured) = 0.138 W/kg



0 dB = 0.138 W/kg = -8.60 dBW/kg

Test Laboratory: JYTSZ

Date: 09.21.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.833 \text{ S/m}$; $\epsilon_r = 37.865$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.89, 7.89, 7.89) @ 2480 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Bluetooth WiFi Body Back/High Channel/Area Scan (81x81x1): Interpolated grid:
 $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.00439 W/kg

Bluetooth WiFi Body Back/High Channel/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 0 V/m; Power Drift = 0.00 dB

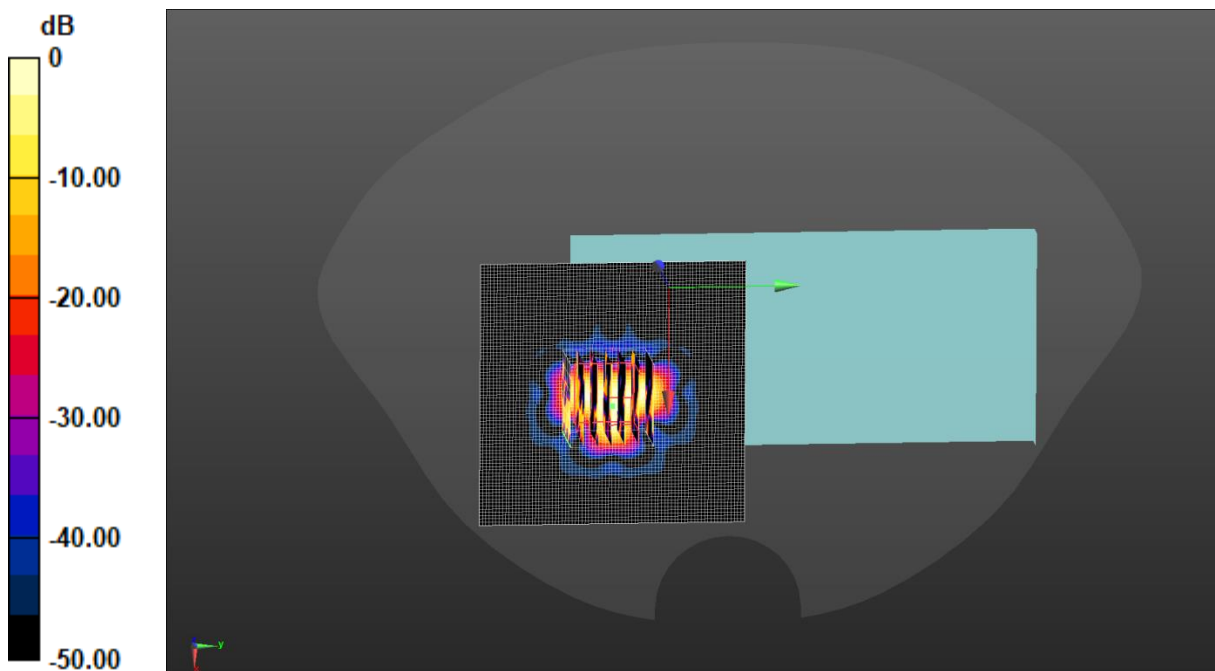
Peak SAR (extrapolated) = 0.00739 W/kg

SAR(1 g) = 0.00109 W/kg; SAR(10 g) = 0.000419 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)

Ratio of SAR at M2 to SAR at M1 = 25.2%

Maximum value of SAR (measured) = 0.00360 W/kg



$$0 \text{ dB} = 0.00439 \text{ W/kg} = -23.57 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 09.21.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.858$ S/m; $\epsilon_r = 37.809$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(7.89, 7.89, 7.89) @ 2510 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 7 1RB(20MHz) Body Bottom/Low Channel/Area Scan (71x101x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.943 W/kg

LTE Band 7 1RB(20MHz) Body Bottom/Low Channel/Zoom Scan

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

Reference Value = 17.52 V/m; Power Drift = -0.08 dB

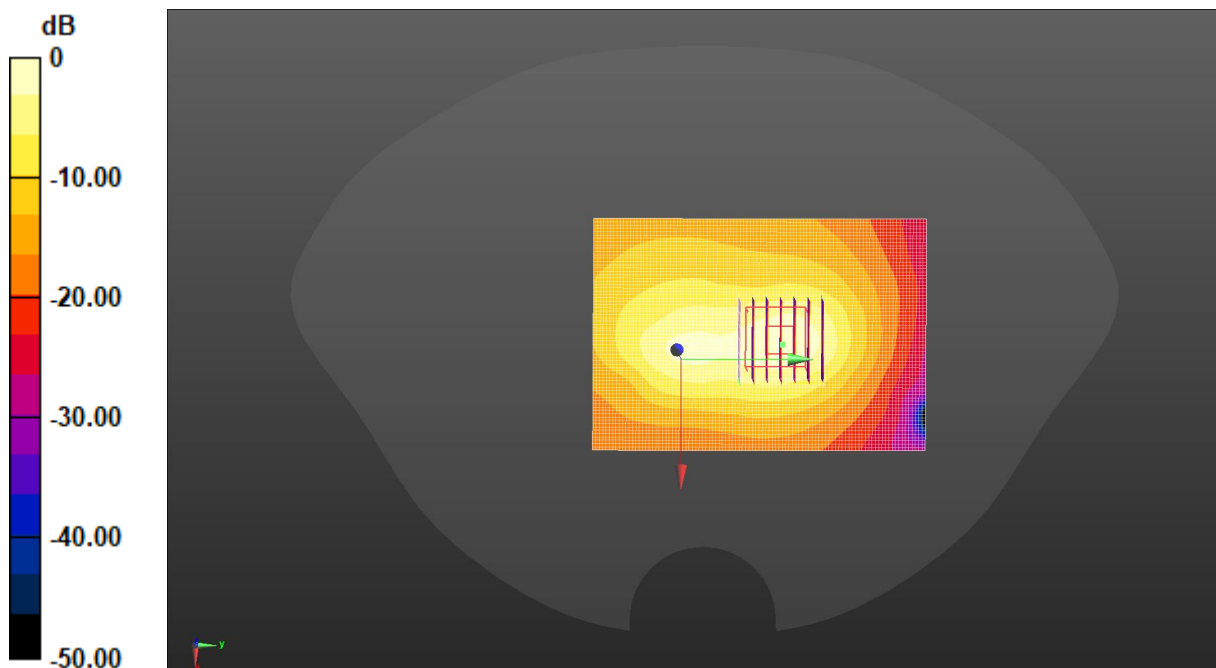
Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.259 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%

Maximum value of SAR (measured) = 0.951 W/kg



0 dB = 0.943 W/kg = -0.26 dBW/kg

Test Laboratory: JYTSZ

Date: 09.14.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1770$ MHz; $\sigma = 1.344$ S/m; $\epsilon_r = 38.889$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(8.73, 8.73, 8.73) @ 1770 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 66 1RB(20MHz) Body Bottom/High Channel/Area Scan (61x71x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

LTE Band 66 1RB(20MHz) Body Bottom/High Channel/Zoom Scan

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

Reference Value = 28.09 V/m; Power Drift = -0.01 dB

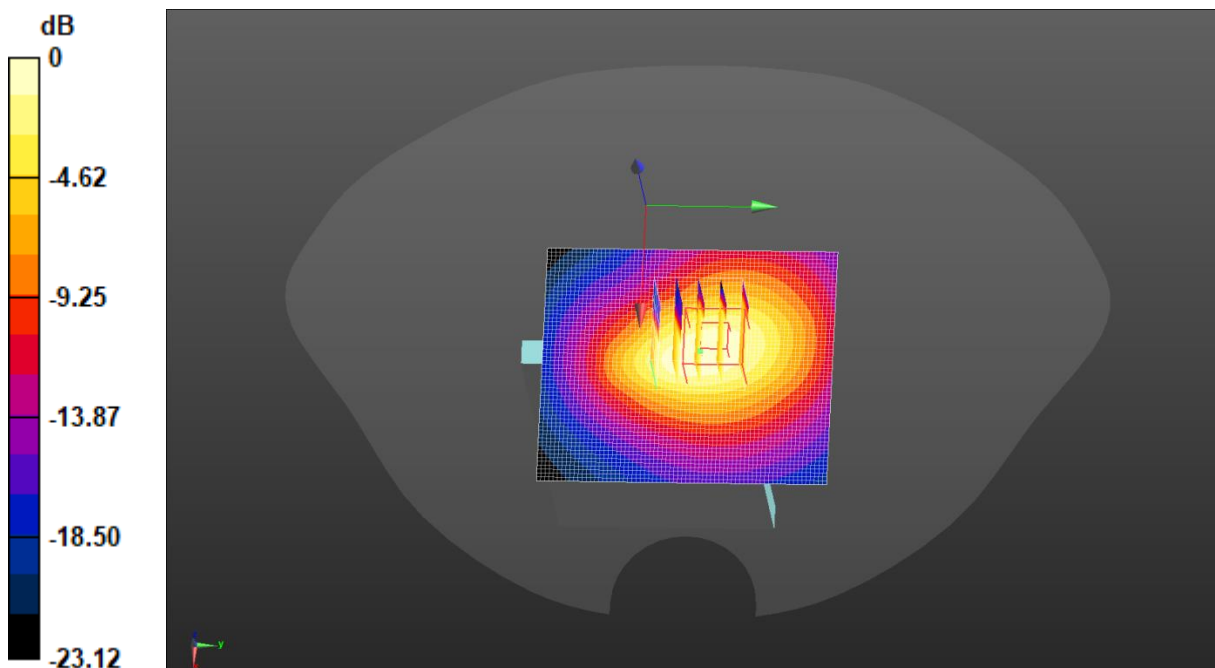
Peak SAR (extrapolated) = 2.03 W/kg

SAR(1 g) = 0.943 W/kg; SAR(10 g) = 0.451 W/kg

Smallest distance from peaks to all points 3 dB below = 3.6 mm

Ratio of SAR at M2 to SAR at M1 = 57.8%

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



0 dB = 1.14 W/kg = 0.55 dBW/kg

Test Laboratory: JYTSZ

Date: 09.03.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, LTE-FDD(USA) 1RB QPSK (0); Frequency: 673 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 673 \text{ MHz}$; $\sigma = 0.847 \text{ S/m}$; $\epsilon_r = 40.88$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(10.71, 10.71, 10.71) @ 673 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 71 1RB(20MHz) Body Right/Low Channel/Area Scan (71x81x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.183 W/kg

LTE Band 71 1RB(20MHz) Body Right/Low Channel/Zoom Scan

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

Reference Value = 15.41 V/m ; Power Drift = -0.09 dB

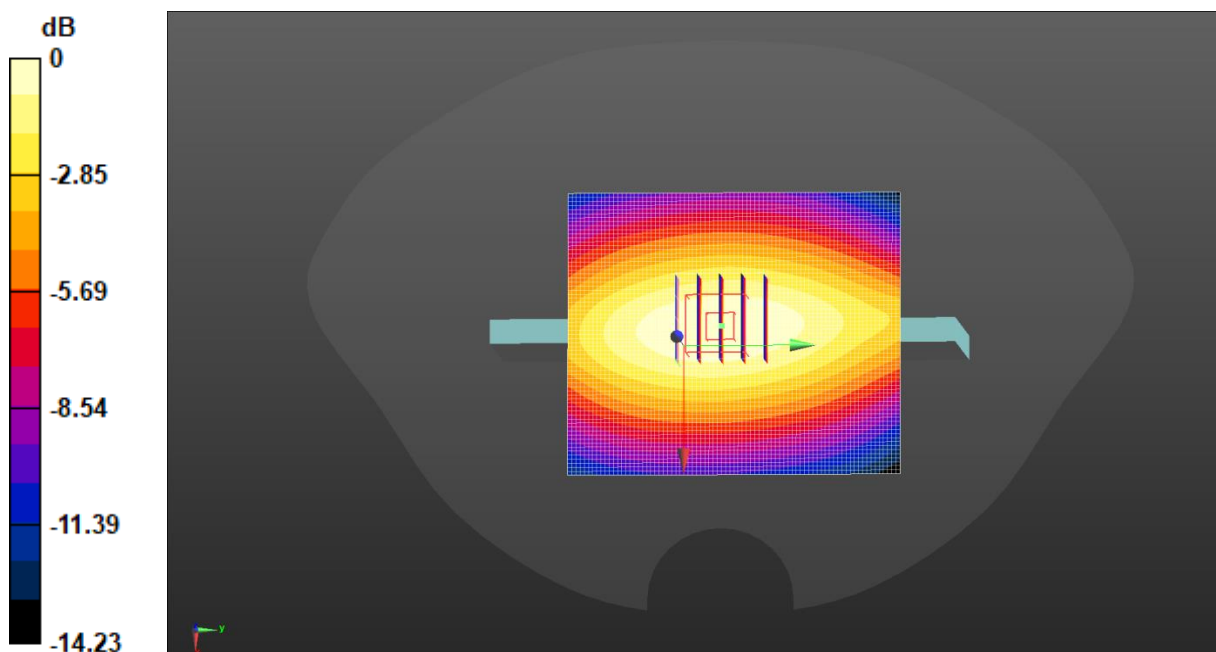
Peak SAR (extrapolated) = 0.213 W/kg

SAR(1 g) = 0.135 W/kg ; SAR(10 g) = 0.093 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid ($> 16 \text{ mm}$)

Ratio of SAR at M2 to SAR at M1 = 63.8%

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



$0 \text{ dB} = 0.183 \text{ W/kg} = -7.37 \text{ dBW/kg}$

Test Laboratory: JYTSZ

Date: 09.25.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5180 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5180 \text{ MHz}$; $\sigma = 4.482 \text{ S/m}$; $\epsilon_r = 35.513$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.51, 5.51, 5.51) @ 5180 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.2G WiFi Body Right/Low Channel/Area Scan (101x101x1): Interpolated grid:
 $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.559 W/kg

5.2G WiFi Body Right/Low Channel/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 3.501 V/m; Power Drift = 0.08 dB

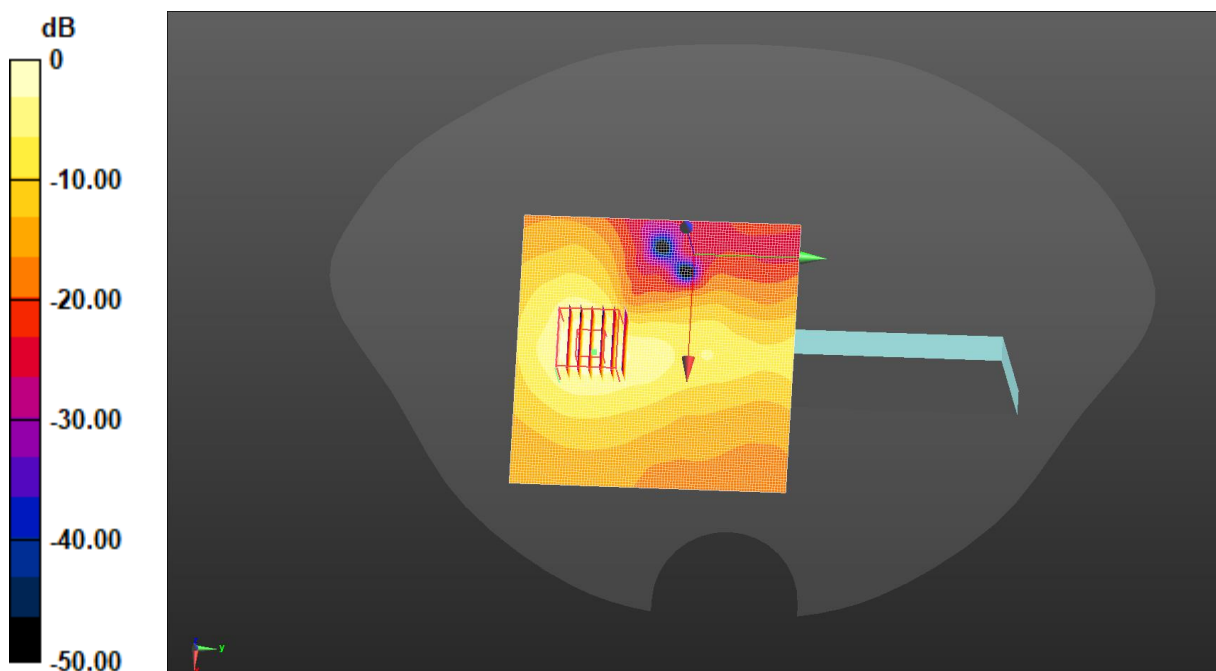
Peak SAR (extrapolated) = 0.831 W/kg

SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.085 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 57.8%

Maximum value of SAR (measured) = 0.557 W/kg



$$0 \text{ dB} = 0.557 \text{ W/kg} = -2.54 \text{ dBW/kg}$$

Test Laboratory: JYTSZ

Date: 09.25.2024

DUT: POZZI Turbo Unlocked Smartphone; Type: Turbo; Serial: SZR142400104-3

Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 5.167$ S/m; $\epsilon_r = 34.908$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7601; ConvF(5.01, 5.01, 5.01) @ 5825 MHz; Calibrated: 01.29.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1373; Calibrated: 11.27.2023
- Phantom: SAM-Twin; Type: QD 000 P40 CD; Serial: 1885
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.8G WiFi Body Right/High Channel/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.325 W/kg

5.8G WiFi Body Right/High Channel/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.512 V/m; Power Drift = 0.03 dB

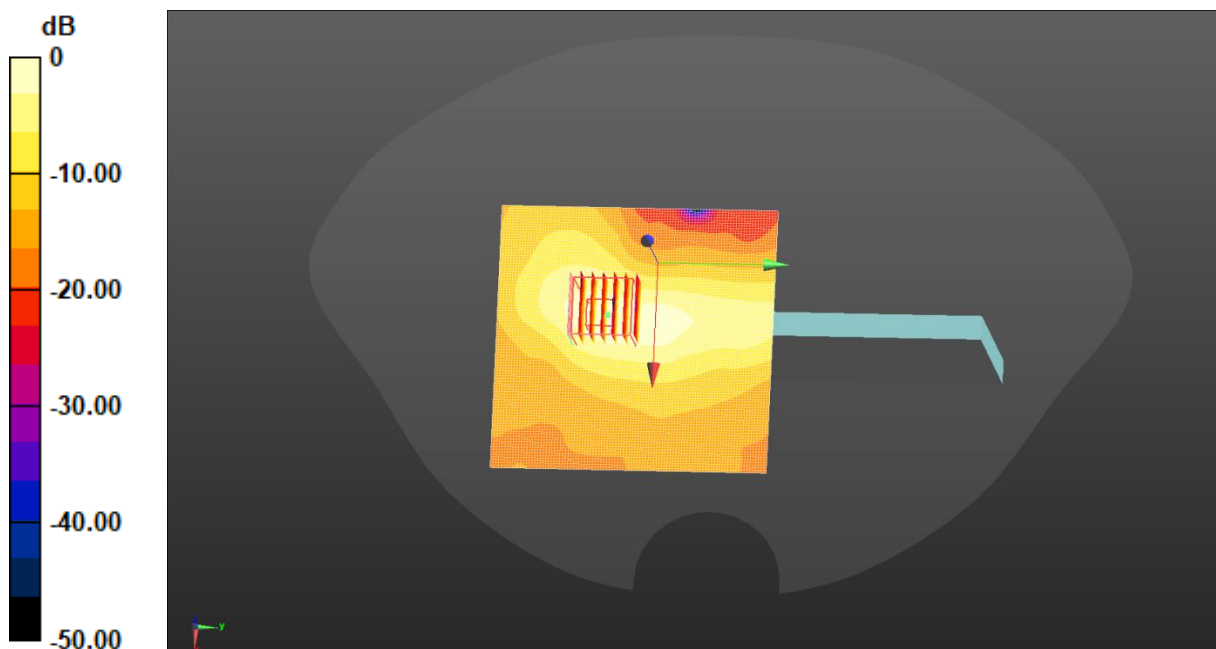
Peak SAR (extrapolated) = 0.626 W/kg

SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.054 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 49.3%

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



0 dB = 0.353 W/kg = -4.52 dBW/kg

-----End of Report-----