

# SAR Test Report

Report No.: AGC02762211104FH01

**FCC ID** : 2AL26-KS2

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Body Worn Camera

**BRAND NAME** : Reveal Media

**MODEL NAME** : KS2

**APPLICANT** : Reveal Media Limited

**DATE OF ISSUE** : Dec. 31, 2021

**STANDARD(S)** : IEEE Std. 1528:2013  
FCC 47 CFR Part 2§2.1093  
IEEE Std C95.1™-2005  
IEC 62209-1: 2016

**REPORT VERSION** : V1.0

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### Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 31, 2021	Valid	Initial Release

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## Test Report

Applicant Name	Reveal Media Limited
Applicant Address	Riverview House, 20 Old Bridge Street, Hampton Wick, KT1 4BU, UNITED KINGDOM
Manufacturer Name	Reveal Media Hong Kong Ltd.
Manufacturer Address	6/F., Luk Kwok Centre, 72 Gloucester Road, Wan Chi, Hong Kong
Factory Name	Reveal Media Hong Kong Ltd.
Factory Address	6/F., Luk Kwok Centre, 72 Gloucester Road, Wan Chi, Hong Kong
Product Designation	Body Worn Camera
Brand Name	Reveal Media
Model Name	KS2
EUT Voltage	DC3.8V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1™-2005 IEC 62209-1: 2016
Test Date	Dec. 20, 2021 to Dec. 23, 2021
Report Template	AGCRT- US -5G/SAR (2021-04-20)

Note: The results of testing in this report apply to the product/system which was tested only.

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Prepared By

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Dec. 23, 2021

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Dec. 31, 2021

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Dec. 31, 2021

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## 1. SUMMARY OF MAXIMUM SAR VALUE

The maximum results of Specific Absorption Rate (SAR) found during testing for EUT are as follows:

Frequency Band	Highest Reported 1g-SAR(W/kg)	SAR Test Limit (W/kg)
	Body-worn(with 0mm separation)	
2.4GHz WIFI	0.557	1.6
5.2GHz (U-NII-1)	0.639	
5.3GHz U-NII-2A	0.629	
5.5GHz U-NII-2C	0.741	
5.8GHz U-NII-3	0.697	
Simultaneous Reported SAR	0.762	
SAR Test Result	PASS	

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg) specified in IEEE Std. 1528:2013; FCC 47CFR § 2.1093; IEEE/ANSI C95.1:2005 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02

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## 2. GENERAL INFORMATION

### 2.1. EUT Description

General Information	
Product Designation	Body Worn Camera
Test Model	KS2
Hardware Version	EP-VRM05RFB-02
Software Version	V1.0
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
Bluetooth	
Operation Frequency	2402~2480MHz
Antenna Gain	2.1dBi
Bluetooth Version	V4.2
Type of modulation	<b>BLE:</b> GFSK
Peak Output Power	<b>BLE:</b> -3.576dBm
2.4GHz WIFI	
WIFI Specification	<input type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n(20) <input checked="" type="checkbox"/> 802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b:15.88dBm,11g:15.18dBm,11n(20):13.70dBm,11n(40):12.60dBm
Antenna Gain	2.4dBi
5 GHz WIFI	
WIFI Specification	<input checked="" type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11n20 <input checked="" type="checkbox"/> 802.11n40 <input checked="" type="checkbox"/> 802.11ac20 <input checked="" type="checkbox"/> 802.11ac40 <input checked="" type="checkbox"/> 802.11ac80
Operation Frequency	U-NII-1: 5180MHz~5240MHz; U-NII-2A: 5260MHz~5320MHz; U-NII-2C: 5470MHz~5725MHz;U-NII-3: 5745MHz~5825MHz
Max. conducted Power	U-NII-1: 12.11dBm; U-NII-2A: 12.31dBm; U-NII-2C: 13.11dBm; U-NII-3: 13.15dBm
Antenna Gain	2.6dBi
Battery	Brand name: IES Model No. : ICR011GB Voltage and Capacitance: 3.8 V & 1000mAh
Power Supply	DC 3.8V by battery

Note: 1.The sample used for testing is end product.

2.Duty-cycle = [on time/total time] x 100%

3. The test sample has no any deviation to the test method of standard mentioned in page 1.

Product	Type
	<input checked="" type="checkbox"/> Production unit <input type="checkbox"/> Identical Prototype

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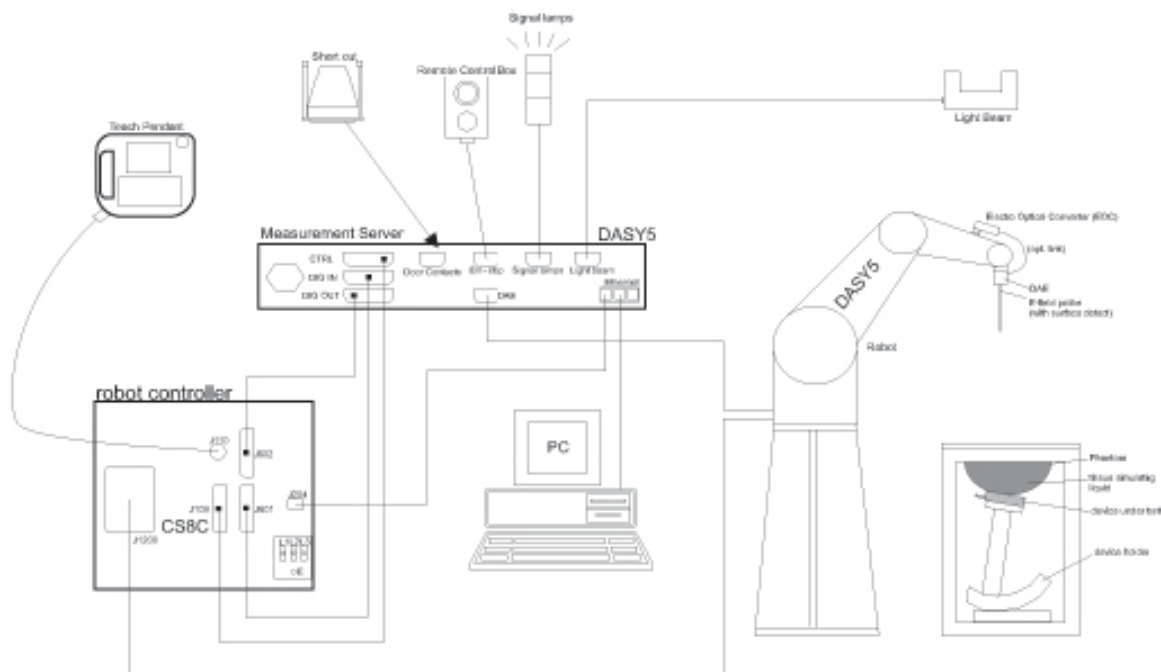
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### 3. SAR MEASUREMENT SYSTEM

#### 3.1. The DASY5 system used for performing compliance tests consists of following items



- A standard high precision 6-axis robot with controller, teach pendant and software.
- Data acquisition electronics (DAE) which attached to the robot arm extension. The DAE consist 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 with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock
- A dosimetric probe equipped with an optical surface detector system.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital Communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- A Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- Phantoms, device holders and other accessories according to the targeted measurement.

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### 3.2. DASY5 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. SPEAG conducts the probe calibration in compliance with international and national standards (e.g. IEEE-1528 etc.) Under ISO17025. The calibration data are in Appendix D.

#### Isotropic E-Field Probe Specification


Model	EX3DV4-SN:3953	
Manufacture	SPEAG	
frequency	0.7GHz-6GHz Linearity:±0.9%(k=2)	
Dynamic Range	0.01W/kg-100W/kg Linearity: ±0.9%(k=2)	
Dimensions	Overall length:337mm Tip diameter:2.5mm Typical distance from probe tip to dipole centers:1mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

### 3.3. Data Acquisition Electronics description

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

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

#### DAE4

<b>Input Impedance</b>	200M $\Omega$	
<b>The Inputs</b>	Symmetrical and floating	
<b>Common mode rejection</b>	above 80 dB	

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### 3.4. Robot

The DASY system uses the high precision robots (DASY5:TX60) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version from is used.

The XL robot series have many features that are important for our application:

- ☐ High precision (repeatability 0.02 mm)
- ☐ High reliability (industrial design)
- ☐ Jerk-free straight movements
- ☐ Low ELF interference (the closed metallic construction shields against motor control fields)
- ☐ 6-axis controller



### 3.5. 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 prob.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position. e, the same position will be reached with another aligned probe within 0



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### 3.6. Device Holder

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 (EPR).

Thus the device needs no repositioning when changing the angles.

The DASY device holder has been made out of low-loss 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.



### 3.7. Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chip-disk (DASY5: 128MB), RAM (DASY5: 128MB).

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 DAYS 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.



### 3.8. PHANTOM SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

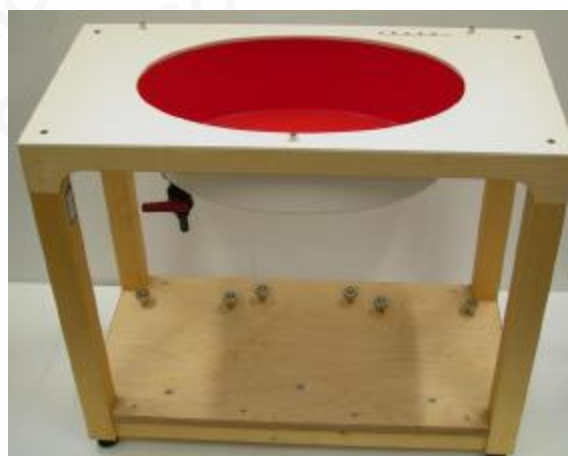
- ☐ Left head
- ☐ Right head
- ☐ Flat phantom



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

- ☐ Flat phantom a fiberglass shell flat phantom with 2mm+/- 0.2 mm shell thickness. It has only one measurement area for Flat phantom



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## 4. SAR MEASUREMENT PROCEDURE

### 4.1. Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in 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 occupational/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

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

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

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

SAR can be obtained using either of the following equations:

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

$$SAR = c_h \left. \frac{dT}{dt} \right|_{t=0}$$

Where

SAR	is the specific absorption rate in watts per kilogram;
E	is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ	is the conductivity of the tissue in siemens per metre;
ρ	is the density of the tissue in kilograms per cubic metre;
c <sub>h</sub>	is the heat capacity of the tissue in joules per kilogram and Kelvin;

$\left. \frac{dT}{dt} \right|_{t=0}$  is the initial time derivative of temperature in the tissue in kelvins per second



## 4.2. SAR Measurement Procedure

### Step 1: 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 is 2.7mm This distance cannot be smaller than the distance os sensor calibration points to probe tip as `defined in the probe properties,

### Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in IEEE Standard 1528, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100MHz to 6GHz

	$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	$\leq 2 \text{ GHz: } \leq 15 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 12 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 12 \text{ mm}$ $4 - 6 \text{ GHz: } \leq 10 \text{ mm}$
	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 $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

### Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g abd 10g of simulated tissue. The Zoom Scan measures points(refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1g and 10g and displays these values next to the job's label.

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## Zoom Scan Parameters extracted from KDB865664 d01 SAR Measurement 100MHz to 6GHz

Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$			$\leq 2$ GHz: $\leq 8$ mm 2 – 3 GHz: $\leq 5$ mm*	3 – 4 GHz: $\leq 5$ mm* 4 – 6 GHz: $\leq 4$ mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		$\leq 5$ mm	3 – 4 GHz: $\leq 4$ mm 4 – 5 GHz: $\leq 3$ mm 5 – 6 GHz: $\leq 2$ mm
	graded grid	$\Delta z_{Zoom}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface	$\leq 4$ mm	3 – 4 GHz: $\leq 3$ mm 4 – 5 GHz: $\leq 2.5$ mm 5 – 6 GHz: $\leq 2$ mm
		$\Delta z_{Zoom}(n>1)$ : between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		$\geq 30$ mm	3 – 4 GHz: $\geq 28$ mm 4 – 5 GHz: $\geq 25$ mm 5 – 6 GHz: $\geq 22$ mm
Note: $\delta$ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB 447498 is $\leq 1.4$ W/kg, $\leq 8$ mm, $\leq 7$ mm and $\leq 5$ 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.				

## Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the same settings. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

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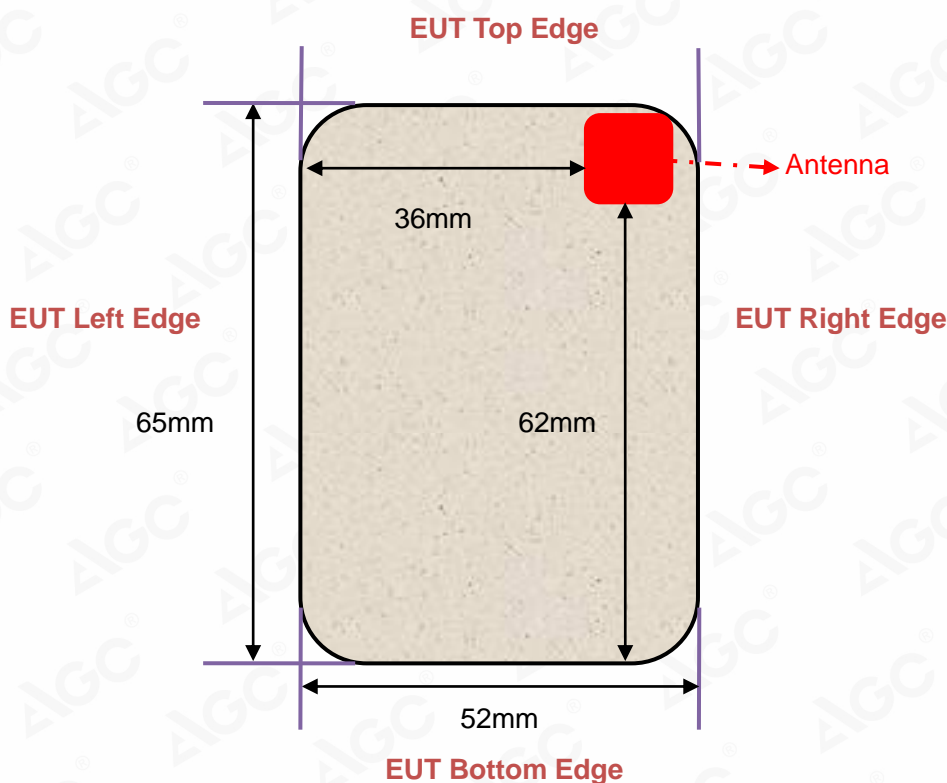


### 4.3. RF Exposure Conditions

Test Configuration and setting:

For WLAN testing, the EUT is configured with the WLAN continuous TX tool through engineering command.

#### Antenna Location: (the back view)



For WLAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	2mm	Yes	--
Edge 2 (Right)	36mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 3 (Bottom)	62mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 4 (Left)	4mm	Yes	--

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## 5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 10% are listed in 6.2.

### 5.1. The composition of the tissue simulating liquid

Frequency (MHz)	Ingredient (% Weight)	Water	NaCl	Polysorbate 20	DGBE	1,2- Propanediol	Triton X-100	Diethylen glycol monohex ylether
2450 Head		71.88	0.16	0.0	7.99	0.0	19.97	0.0
5000 Head		65.52	0.0	0.0	0.0	0.0	17.24	17.24

### 5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEC 62209-1 have been incorporated in the following table. The body tissue dielectric parameters recommended by the IEC 62209-2 have been incorporated in the following table.

Target Frequency (MHz)	head		body	
	$\epsilon_r$	$\sigma$ (S/m)	$\epsilon_r$	$\sigma$ (S/m)
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
835	41.5	0.90	41.5	0.90
900	41.5	0.97	41.5	0.97
915	41.5	1.01	41.5	1.01
1450	40.5	1.20	40.5	1.20
1610	40.3	1.29	40.3	1.29
1800 – 2000	40.0	1.40	40.0	1.40
<b>2450</b>	<b>39.2</b>	<b>1.80</b>	<b>39.2</b>	<b>1.80</b>
3000	38.5	2.40	38.5	2.40
<b>5200</b>	<b>36.0</b>	<b>4.66</b>	<b>36.0</b>	<b>4.66</b>
<b>5300</b>	<b>35.9</b>	<b>4.76</b>	<b>35.9</b>	<b>4.76</b>
<b>5600</b>	<b>35.5</b>	<b>5.07</b>	<b>35.5</b>	<b>5.07</b>
<b>5800</b>	<b>35.3</b>	<b>5.27</b>	<b>35.3</b>	<b>5.27</b>

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

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### 5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using DASY 5 Dielectric Probe Kit and R&S Network Analyzer ZVL6.

Tissue Stimulant Measurement for 2450MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 39.2(37.24-41.16)	$\delta$ [s/m]1.80(1.71-1.89)		
	2412	39.24	1.74	21.2	Dec. 20, 2021
	2437	38.95	1.75		
	2450	38.61	1.76		
	2462	38.37	1.77		

Tissue Stimulant Measurement for 5200MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 36.0(32.4-39.6)	$\delta$ [s/m] 4.66(4.194 -5.126)		
	5180	36.09	4.53	20.9	Dec. 21, 2021
	5200	35.81	4.54		
	5220	35.62	4.55		
	5240	35.45	4.56		

Tissue Stimulant Measurement for 5300MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 35.9(32.31-39.49)	$\delta$ [s/m] 4.76(4.284-5.236)		
	5280	36.78	4.74	21.3	Dec. 21, 2021
	5300	35.69	4.75		
	5320	35.42	4.76		

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Tissue Stimulant Measurement for 5600MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		Er	$\delta$ [s/m]		
		35.5 (31.95-39.05)	5.07(4.563 -5.577)		
	5500	35.16	4.96	21.4	Dec. 23, 2021
	5580	34.85	4.97		
	5600	34.79	4.98		
	5700	34.52	5.00		

Tissue Stimulant Measurement for 5800MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$	$\delta$ [s/m]		
		35.3 (31.77-38.83)	5.27 (4.743-5.797)		
	5745	36.12	5.30	20.6	Dec. 22, 2021
	5785	35.92	5.31		
	5800	35.71	5.32		
	5825	35.46	5.33		

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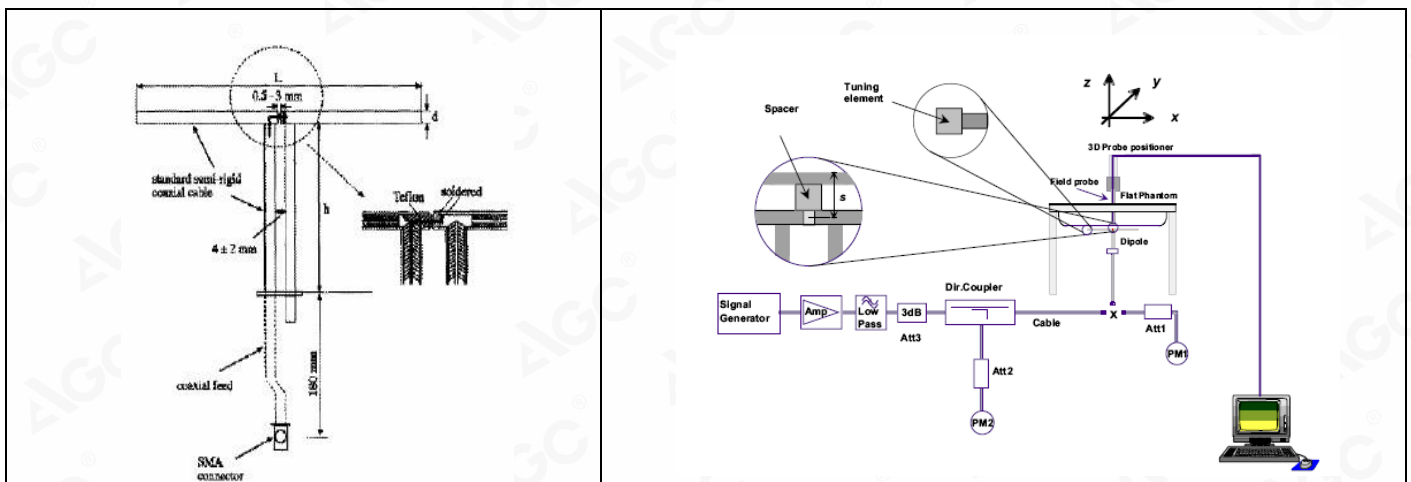
## 6. SAR SYSTEM CHECK PROCEDURE

### 6.1. SAR System Check Procedures

SAR system check is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

Each DASY system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



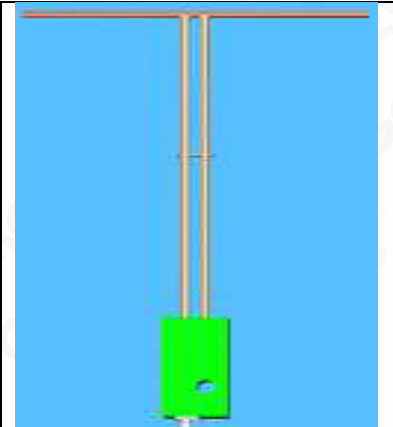

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## 6.2. SAR System Check

### 6.2.1. Dipoles

	<p>The dipoles used are based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. the table below provides details for the mechanical and electrical Specifications for the dipoles.</p>
	<p>The wave guide is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. The table below provides details for the mechanical and electrical specifications for the wave guide.</p>

Frequency	L (mm)	h (mm)	d (mm)
2450MHz	51.5	30.4	3.6

Frequency	L (mm)	W (mm)	L <sub>f</sub> (mm)	W <sub>f</sub> (mm)
5000MHz	40.39	20.19	81.03	61.98

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## 6.2.2. System Check Result

System Performance Check at 2450MHz&5000-6000MHz for Head								
Validation Kit: SN 46/11 DIP 2G450-189& SN 15/15 WGA 36								
Frequency [MHz]	Target Value(W/kg)		Reference Result ( $\pm 10\%$ )		Tested Value(W/kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
2450	53.97	24.01	48.573-59.367	21.609-26.411	55.15	23.30	21.2	Dec. 20, 2021
5200	161.18	55.04	145.062-177.298	49.536-60.544	152.00	53.70	20.9	Dec. 21, 2021
5200	161.18	55.04	145.062-177.298	49.536-60.544	162.00	58.70	21.3	Dec. 21, 2021
5600	175.94	59.03	158.364-193.534	53.127-64.933	171.00	57.60	21.4	Dec. 23, 2021
5800	181.69	60.11	163.521-199.859	54.099-66.121	189.00	63.70	20.6	Dec. 22, 2021

Note:

(1) We use a CW signal of 18dBm &10dBm for system check, and then all SAR values are normalized to 1W forward power. The result must be within  $\pm 10\%$  of target value.

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## 7. EUT TEST POSITION

This EUT was tested in **Body back, Body front and 4Edges.**

### 7.1. Body Worn Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to **0mm.**

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## 8. SAR EXPOSURE LIMITS

### Limits for General Population/Uncontrolled Exposure (W/kg)

Type Exposure	Uncontrolled Environment Limit (W/kg)
Spatial Peak SAR (1g cube tissue for brain or body)	1.60
Spatial Average SAR (Whole body)	0.08
Spatial Peak SAR (Limbs)	4.0

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## 9. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

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## 10. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Software version	Current calibration date	Next calibration date
Stäubli Robot	Stäubli-TX60	F13/5Q2UD1/A/01	N/A	N/A	N/A
Robot Controller	Stäubli-CS8	139522	N/A	N/A	N/A
E-Field Probe	Speag- EX3DV4	SN:3953	N/A	Aug. 27,2021	Aug. 26,2022
SAM Twin Phantom	Speag-SAM	1790	N/A	N/A	N/A
Device Holder	Speag-SD 000 H01 KA	SD 000 H01 KA	N/A	N/A	N/A
DAE4	Speag-SD 000 D04 BM	1398	N/A	May 17,2021	May. 16,2022
SAR Software	Speag-DASY5	N/A	5.3da53	N/A	N/A
Liquid	SATIMO	N/A	N/A	N/A	N/A
Dipole	SATIMO SID2450	SN 46/11 DIP 2G450-189	N/A	Apr. 26,2019	Apr. 25,2022
Wave guide	SWG5500	SN 15/15 WGA 36	N/A	Apr. 26,2019	Apr. 25,2022
Signal Generator	Agilent-E4438C	US41461365	V5.03	Aug. 18,2021	Aug. 17,2022
Vector Analyzer	Agilent / E4440A	MY44303916	N/A	Mar. 21,2021	Mar. 20,2022
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	3.2	Oct. 28,2021	Oct. 27,2022
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	N/A	June 09,2021	June. 08,2022
Attenuator	Mini-circuits / VAT-10+	31405	N/A	June 09,2021	June. 08,2022
Amplifier	AS0104-55_55	1004793	N/A	June 10,2021	June. 09,2022
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	May 15,2020	May. 14,2022
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	May 15,2020	May. 14,2022
Power Sensor	NRP-Z21	1137.6000.02	N/A	Sep. 07,2021	Sep. 06,2022
Power Sensor	NRP-Z23	100323	N/A	Feb. 17,2021	Feb. 16,2022
Power Viewer	R&S	V2.3.1.0	N/A	N/A	N/A
Calibration standard parts for network sub - port	R&S/ ZV-Z132	N/A	V2.3.1.0	Dec. 07, 2021	Dec. 06, 2022

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement;
4. Impedance is within 5Ω of calibrated measurement.

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## 11. MEASUREMENT UNCERTAINTY

DASY Uncertainty- EX3DV4 Measurement uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h cxf/e	i cxg/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
<b>Measurement System</b>									
Probe calibration	E.2.1	6.65	N	1	1	1	6.65	6.65	∞
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	0.24	0.24	∞
Hemispherical Isotropy	E.2.2	1.6	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	0.65	0.65	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	0.45	R	$\sqrt{3}$	1	1	0.26	0.26	∞
System detection limits	E.2.4	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E.2.5	3.3	R	$\sqrt{3}$	1	1	1.91	1.91	∞
Readout Electronics	E.2.6	0.15	N	1	1	1	0.15	0.15	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	E.2.8	1.7	R	$\sqrt{3}$	1	1	0.98	0.98	∞
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.4	R	$\sqrt{3}$	1	1	0.23	0.23	∞
Probe positioning with respect to phantom shell	E.6.3	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
<b>Test sample Related</b>									
Test sample positioning	E.4.2	2.9	N	1	1	1	2.90	2.90	∞
Device holder uncertainty	E.4.1	3.6	N	1	1	1	3.60	3.60	∞
Output power variation—SAR drift measurement	E.2.9	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
<b>Phantom and tissue parameters</b>									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	$\sqrt{3}$	1	1	3.81	3.81	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				11.79	11.63	
Expanded Uncertainty (95% Confidence interval)			K=2				23.59	23.26	

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DASY Uncertainty- EX3DV4									
System Check uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h cxf/e	i cxg/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
<b>Measurement System</b>									
Probe calibration drift	E.2.1	0.5	N	1	1	1	0.5	0.5	∞
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	1.6	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Linearity	E.2.4	0.45	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System detection limits	E.2.4	1	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Modulation response	E.2.5	3.3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.15	N	1	0	0	0.00	0.00	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.7	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	0.4	R	$\sqrt{3}$	1	1	0.37	0.37	∞
Probe positioning with respect to phantom shell	E.6.3	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
<b>System check source (dipole)</b>									
Deviation of experimental dipoles	E.6.4	2.0	N	1	1	1	2.00	2.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
<b>Phantom and tissue parameters</b>									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	$\sqrt{3}$	1	1	3.81	3.81	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				7.34	7.07	
Expanded Uncertainty (95% Confidence interval)			K=2				14.67	14.14	

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DASY Uncertainty- EX3DV4									
System Validation uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h cxf/e	i cxg/e	k
Uncertainty Component	Sec.	Tol (±%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
<b>Measurement System</b>									
Probe calibration	E.2.1	6.65	N	1	1	1	6.65	6.65	∞
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	1	1	0.35	0.35	∞
Hemispherical Isotropy	E.2.2	1.6	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	0.45	R	$\sqrt{3}$	1	1	0.26	0.26	∞
System detection limits	E.2.4	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E.2.5	3.3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.15	N	1	1	1	0.15	0.15	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.7	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.4	R	$\sqrt{3}$	1	1	0.23	0.23	∞
Probe positioning with respect to phantom shell	E.6.3	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
<b>System check source (dipole)</b>									
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1	1	1	5.00	5.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
<b>Phantom and tissue parameters</b>									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	$\sqrt{3}$	1	1	3.81	3.81	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				11.45	11.28	
Expanded Uncertainty (95% Confidence interval)			K=2				22.89	22.55	

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## 12. CONDUCTED POWER MEASUREMENT

### WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	15.31
		06	2437	<b>15.88</b>
		11	2462	15.56
802.11g	6	01	2412	14.38
		06	2437	15.18
		11	2462	14.77
802.11n(20)	6.5	01	2412	13.05
		06	2437	13.70
		11	2462	13.32
802.11n(40)	13.5	03	2422	12.47
		06	2437	12.60
		09	2452	11.11

### Bluetooth\_BLE

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	<b>-3.576</b>
	19	2440	-4.938
	39	2480	-6.785

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## 5GHz WIFI

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	11.53	11.35	11.31	11.22	11.03	10.98	10.87	10.72
	40	5200	11.79	11.67	11.53	11.47	11.35	11.27	11.14	11.06
	44	5220	11.65	11.54	11.37	11.30	11.28	11.08	10.92	10.90
	48	5240	11.87	11.78	11.60	11.53	11.45	11.34	11.26	11.10
	52	5260	11.78	11.66	11.55	11.42	11.34	11.23	11.18	11.06
	56	5280	11.71	11.65	11.49	11.34	11.27	11.19	11.05	10.97
	60	5300	12.00	11.89	11.76	11.67	11.54	11.41	11.36	11.24
	64	5320	12.31	12.15	12.10	11.99	11.85	11.74	11.65	11.56
	100	5500	11.25	11.12	11.03	10.94	10.76	10.70	10.52	10.49
	104	5520	11.08	10.96	10.82	10.76	10.65	10.56	10.35	10.35
	108	5540	11.56	11.45	11.28	11.21	11.19	10.99	10.86	10.81
	112	5560	11.74	11.64	11.47	11.40	11.35	11.21	11.15	10.97
	116	5580	12.50	12.35	12.28	12.19	12.04	11.95	11.83	11.74
	132	5660	12.45	12.35	12.23	12.08	11.95	11.93	11.78	11.71
	136	5680	12.85	12.67	12.61	12.52	12.34	12.26	12.24	12.09
	140	5700	13.11	12.95	12.90	12.79	12.65	12.54	12.49	12.36
	149	5745	13.15	13.04	12.90	12.80	12.61	12.57	12.47	12.43
	157	5785	12.60	12.45	12.33	12.21	12.28	12.08	11.95	11.87
	165	5825	12.04	11.96	11.81	11.68	11.55	11.47	11.40	11.29

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Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (20)	36	5180	11.28	11.13	11.03	10.97	10.82	10.74	10.61	10.54
	40	5200	11.60	11.47	11.38	11.28	11.17	11.05	10.91	10.85
	44	5220	11.45	11.35	11.15	11.10	11.03	10.88	10.77	10.72
	48	5240	11.74	11.62	11.44	11.40	11.30	11.27	11.11	10.96
	52	5260	11.54	11.45	11.37	11.18	11.10	10.94	10.87	10.88
	56	5280	11.52	11.42	11.31	11.15	11.06	11.01	10.84	10.74
	60	5300	11.78	11.62	11.56	11.45	11.31	11.15	11.13	11.05
	64	5320	12.00	11.87	11.75	11.68	11.53	11.42	11.31	11.29
	100	5500	11.11	10.96	10.89	10.80	10.65	10.56	10.44	10.36
	104	5520	11.45	11.32	11.15	11.13	11.02	10.95	10.76	10.73
	108	5540	11.68	11.58	11.48	11.33	11.26	11.18	11.00	10.95
	112	5560	11.82	11.70	11.54	11.48	11.38	11.25	11.19	11.08
	116	5580	12.00	11.91	11.76	11.64	11.56	11.46	11.33	11.24
	132	5660	12.25	12.15	12.02	11.88	11.79	11.75	11.57	11.55
	136	5680	12.54	12.38	12.38	12.21	12.07	11.92	11.89	11.77
	140	5700	12.88	12.75	12.65	12.56	12.41	12.35	12.19	12.14
	149	5745	12.92	12.77	12.64	12.57	12.46	12.39	12.24	12.21
	157	5785	12.48	12.36	12.25	12.09	12.08	11.95	11.83	11.78
	165	5825	11.93	11.79	11.76	11.57	11.44	11.34	11.29	11.15
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (40)	38	5190	11.54	11.39	11.33	11.24	11.07	10.99	10.88	10.78
	46	5230	11.79	11.66	11.55	11.47	11.35	11.27	11.15	11.06
	54	5270	11.61	11.51	11.38	11.26	11.14	11.04	10.92	10.86
	62	5310	12.04	11.92	11.74	11.70	11.62	11.51	11.46	11.27
	102	5510	11.19	11.10	10.97	10.83	10.78	10.64	10.59	10.47
	110	5550	11.10	11.00	10.81	10.73	10.66	10.58	10.45	10.36
	134	5670	12.64	12.48	12.45	12.31	12.15	12.05	11.94	11.88
	151	5755	13.00	12.87	12.76	12.68	12.59	12.43	12.37	12.25
	159	5795	12.47	12.32	12.25	12.12	12.05	11.89	11.71	11.72

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Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (20)	36	5180	11.32	11.17	11.10	11.08	10.86	10.77	10.65	10.59
	40	5200	11.61	11.48	11.35	11.25	11.18	11.09	10.92	10.85
	44	5220	11.54	11.44	11.26	11.12	11.12	10.97	10.86	10.74
	48	5240	11.74	11.62	11.47	11.46	11.30	11.21	11.11	10.98
	52	5260	11.60	11.51	11.37	11.29	11.16	11.05	10.93	10.86
	56	5280	11.56	11.46	11.34	11.15	11.10	11.04	10.88	10.82
	60	5300	11.85	11.69	11.61	11.55	11.38	11.26	11.20	11.08
	64	5320	12.06	11.93	11.85	11.77	11.59	11.49	11.37	11.35
	100	5500	11.20	11.05	10.95	10.84	10.74	10.62	10.52	10.44
	104	5520	11.45	11.33	11.18	11.08	11.05	10.93	10.80	10.77
	108	5540	11.67	11.53	11.44	11.35	11.18	11.10	11.03	10.91
	112	5560	11.82	11.74	11.61	11.46	11.36	11.29	11.19	11.05
	116	5580	12.03	11.92	11.83	11.72	11.59	11.48	11.34	11.24
	132	5660	12.45	12.27	12.19	12.10	12.03	11.89	11.81	11.62
	136	5680	12.68	12.53	12.46	12.34	12.22	12.13	12.01	11.98
	140	5700	12.93	12.80	12.67	12.61	12.50	12.41	12.24	12.25
	149	5745	12.95	12.85	12.67	12.65	12.53	12.38	12.27	12.24
	157	5785	12.58	12.46	12.31	12.24	12.14	12.05	11.95	11.81
	165	5825	12.00	11.91	11.77	11.66	11.56	11.45	11.33	11.28
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (40)	38	5190	11.62	11.47	11.40	11.37	11.16	11.07	10.94	10.86
	46	5230	11.88	11.75	11.62	11.58	11.45	11.36	11.12	11.15
	54	5270	11.81	11.71	11.53	11.45	11.39	11.24	11.16	11.06
	62	5310	12.18	12.06	11.91	11.84	11.74	11.65	11.58	11.41
	102	5510	11.28	11.19	11.05	10.92	10.84	10.73	10.65	10.56
	110	5550	11.20	11.10	10.98	10.86	10.74	10.68	10.59	10.46
	134	5670	11.14	10.98	10.90	10.85	10.67	10.55	10.45	10.38
	151	5755	13.14	13.01	12.93	12.83	12.67	12.57	12.46	12.39
	159	5795	12.60	12.45	12.35	12.23	12.14	12.02	11.92	11.88
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (80)	42	5210	12.11	11.96	11.83	11.80	11.64	11.56	11.44	11.35
	58	5290	12.25	12.12	11.98	11.93	11.81	11.73	11.56	11.52
	106	5530	12.04	11.94	11.75	11.69	11.65	11.47	11.36	11.29
	138	5690	12.09	11.97	11.84	11.75	11.68	11.56	11.46	11.32
	155	5775	13.02	12.93	12.76	12.66	12.56	12.47	12.35	12.30

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## 13. TEST RESULTS

### 13.1. SAR Test Results Summary

#### 13.1.1. Test position and configuration

Body SAR was performed with the device 0mm from the phantom

#### 13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is  $\geq 0.8$ W/kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
  - (1) When the original highest measured SAR is  $\geq 0.8$ W/kg, repeat that measurement once.
  - (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is  $>1.20$  or when the original or repeated measurement is  $\geq 1.45$  W/kg.
  - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is  $\geq 1.5$  W/kg and ratio of largest to smallest SAR for the original, first and second measurement is  $\geq 1.20$ .
3. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:  
Maximum Scaling SAR =tested SAR (Max.)  $\times$  [maximum turn-up power (mw)/ maximum measurement output power(mw) ]
4. Per KDB 248227 D01 v02r02 Chapter 5.2.2,when SAR measurement is required for 2.4GHz 802.11g/n OFDM configurations, the measurement and test reducing procedures for OFDM are applied. SAR is not required for the following 2.4 GHz OFDM conditions.
  - (1) When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
  - (2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg,
5. Per KDB 248227 D01 v02r02 Chapter 5.3.4, SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear. When the same maximum output power is specified for multiple transmission modes, the procedures in 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.
  - (1) When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
  - (2) When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements,

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is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, SAR is not required for that subsequent test configuration.

6. According to KDB 447498 D01, annex A, SAR is not required for bluetooth because its maximum output power is less than 19 mW.

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### 13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 45.8				
Product: Body Worn Camera									
Test Mode: 2.4GHz WIFI									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±0.2dB)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
Body back	DTS	06	2437	0.18	0.554	15.90	15.88	0.557	1.6
Body front	DTS	06	2437	0.18	0.325	15.90	15.88	0.327	1.6
Edge 1 (Top)	DTS	06	2437	0.17	0.075	15.90	15.88	0.075	1.6
Edge 2(Right)	DTS	06	2437	0.08	0.026	15.90	15.88	0.026	1.6
Edge 3(Bottom)	DTS	06	2437	-0.12	0.319	15.90	15.88	0.320	1.6
Edge 4(Left)	DTS	06	2437	0.14	0.305	15.90	15.88	0.306	1.6

Note:

1. When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB447498.
2. The test separation of all above table is 0mm.
3. According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.

SAR MEASUREMENT								
Depth of Liquid (cm):>15					Relative Humidity (%): 45.3			
Product: Body Worn Camera								
Test Mode: 5.2GHz WIFI-802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<±0.2dB)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	40	5200	0.10	0.623	11.90	11.79	0.639	1.6
Body front	40	5200	0.15	0.520	11.90	11.79	0.533	1.6
Edge 1 (Top)	40	5200	0.02	0.143	11.90	11.79	0.147	1.6
Edge 2(Right)	40	5200	0.15	0.246	11.90	11.79	0.252	1.6
Edge 3(Bottom)	40	5200	-0.04	0.196	11.90	11.79	0.201	1.6
Edge 4(Left)	40	5200	0.02	0.215	11.90	11.79	0.221	1.6

Note:

1. When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB447498.
2. The test separation of all above table is 0mm.

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SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 45.8				
Product: Body Worn Camera								
Test Mode:5.3GHz WIFI-802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<±0.2dB)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	56	5280	0.10	0.537	12.40	11.71	0.629	1.6
Body front	56	5280	-0.14	0.475	12.40	11.71	0.557	1.6
Edge 1 (Top)	56	5280	0.17	0.140	12.40	11.71	0.164	1.6
Edge 2(Right)	56	5280	0.01	0.363	12.40	11.71	0.426	1.6
Edge 3(Bottom)	56	5280	0.13	0.123	12.40	11.71	0.144	1.6
Edge 4(Left)	56	5280	0.06	0.177	12.40	11.71	0.207	1.6

Note:

1. When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB447498.
2. The test separation of all above table is 0mm.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 51.7				
Product: Body Worn Camera								
Test Mode:5.5GHz WIFI-802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<±0.2dB)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	116	5580	0.10	0.631	13.20	12.50	0.741	1.6
Body front	116	5580	-0.14	0.335	13.20	12.50	0.394	1.6
Edge 1 (Top)	116	5580	0.05	0.134	13.20	12.50	0.157	1.6
Edge 2(Right)	116	5580	0.12	0.350	13.20	12.50	0.411	1.6
Edge 3(Bottom)	116	5580	-0.14	0.187	13.20	12.50	0.220	1.6
Edge 4(Left)	116	5580	0.11	0.205	13.20	12.50	0.241	1.6

Note:

1. When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB447498.
2. The test separation of all above table is 0mm.

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SAR MEASUREMENT								
Depth of Liquid (cm):>15					Relative Humidity (%): 46.9			
Product: Body Worn Camera								
Test Mode: 5.8GHz WIFI-802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<±0.2dB)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	157	5785	0.10	0.607	13.20	12.60	0.697	1.6
Body front	157	5785	0.17	0.293	13.20	12.60	0.336	1.6
Edge 1 (Top)	157	5785	0.01	0.066	13.20	12.60	0.076	1.6
Edge 2(Right)	157	5785	-0.11	0.022	13.20	12.60	0.025	1.6
Edge 3(Bottom)	157	5785	0.11	0.185	13.20	12.60	0.212	1.6
Edge 4(Left)	157	5785	0.03	0.106	13.20	12.60	0.122	1.6

1. When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB447498.
2. The test separation of all above table is 0mm.

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## Simultaneous Multi-band Transmission Evaluation:

### Application Simultaneous Transmission information:

NO	Simultaneous state	Portable Handset		Note
		Body-worn	Hotspot	
1	WIFI (data)+ Bluetooth	Yes	Yes	-

#### NOTE:

- WLAN and BT with different antenna.
- For simultaneous transmission at body exposure position, 2 transmitters simultaneous transmission was the worst state.
- Based upon KDB 447498 D01, BT SAR is excluded as below table.
- Based upon KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 0mm for body-worn SAR.
- According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:  
For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:  

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR<sup>30</sup>, where
  - f(GHz) is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation<sup>31</sup>
  - The result is rounded to one decimal place for comparison
  - The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below
The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.
- If the test separation distance is  $< 5$  mm, 5mm is used for excluded SAR calculation.
- According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
  - Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.
  - Any transmitters and antennas should be considered when calculating simultaneous mode.
  - When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det  

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})} / x] \text{ W/kg}$$
for test separation distances  $\leq 50$  mm;  
where  $x = 7.5$  for 1-g SAR, and  $x = 18.75$  for 10-g SAR.
- When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by  $(\text{SAR}_1 + \text{SAR}_2) / 1.5 / R_i$ , rounded to two decimal digits, and must be  $\leq 0.04$  for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

Estimated SAR		Max Power including Tune-up Tolerance		Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW		
BT	Body	-3	0.50	0	0.021

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### Sum of the SAR for 2.4GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		2.4GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.557	0.021	0.578	No
	Front	0.327	0.021	0.348	No
Hotspot	Rear	0.557	0.021	0.578	No
	Front	0.327	0.021	0.348	No
	Edge 1	0.075	0.021	0.096	No
	Edge 2	0.026	0.021	0.047	No
	Edge 3	0.320	0.021	0.341	No
	Edge 4	0.306	0.021	0.327	No

### Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

### Sum of the SAR for 5.2GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		5.2GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.639	0.021	0.660	No
	Front	0.533	0.021	0.554	No
Hotspot	Rear	0.639	0.021	0.660	No
	Front	0.533	0.021	0.554	No
	Edge 1	0.147	0.021	0.168	No
	Edge 2	0.252	0.021	0.273	No
	Edge 3	0.201	0.021	0.222	No
	Edge 4	0.221	0.021	0.242	No

### Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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#### Sum of the SAR for 5.3GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		5.3GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.629	0.021	0.650	No
	Front	0.557	0.021	0.578	No
Hotspot	Rear	0.629	0.021	0.650	No
	Front	0.557	0.021	0.578	No
	Edge 1	0.164	0.021	0.185	No
	Edge 2	0.426	0.021	0.447	No
	Edge 3	0.144	0.021	0.165	No
	Edge 4	0.207	0.021	0.228	No

#### Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

#### Sum of the SAR for 5.6GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		5.6GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.741	0.021	0.762	No
	Front	0.394	0.021	0.415	No
Hotspot	Rear	0.741	0.021	0.762	No
	Front	0.394	0.021	0.415	No
	Edge 1	0.157	0.021	0.178	No
	Edge 2	0.411	0.021	0.432	No
	Edge 3	0.220	0.021	0.241	No
	Edge 4	0.241	0.021	0.262	No

#### Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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### Sum of the SAR for 5.8GHz Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		$\Sigma$ 1-g SAR (W/kg)	SPLSR (Yes/No)
		5.8GHz Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.697	0.021	0.718	No
	Front	0.336	0.021	0.357	No
Hotspot	Rear	0.697	0.021	0.718	No
	Front	0.336	0.021	0.357	No
	Edge 1	0.076	0.021	0.097	No
	Edge 2	0.025	0.021	0.046	No
	Edge 3	0.212	0.021	0.233	No
	Edge 4	0.122	0.021	0.143	No

### Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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## APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab

Date: Dec. 20, 2021

System Check Head 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1;  
Frequency: 2450 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.76$  mho/m;  $\epsilon_r = 38.61$ ;  $\rho = 1000$  kg/m<sup>3</sup>;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

DASY Configuration:

- Probe: EX3DV4 – SN:3953; ConvF(7.60, 7.60, 7.60); Calibrated: Aug. 27,2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check Head 2450Hz/Area Scan (5x8x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 4.89 W/kg

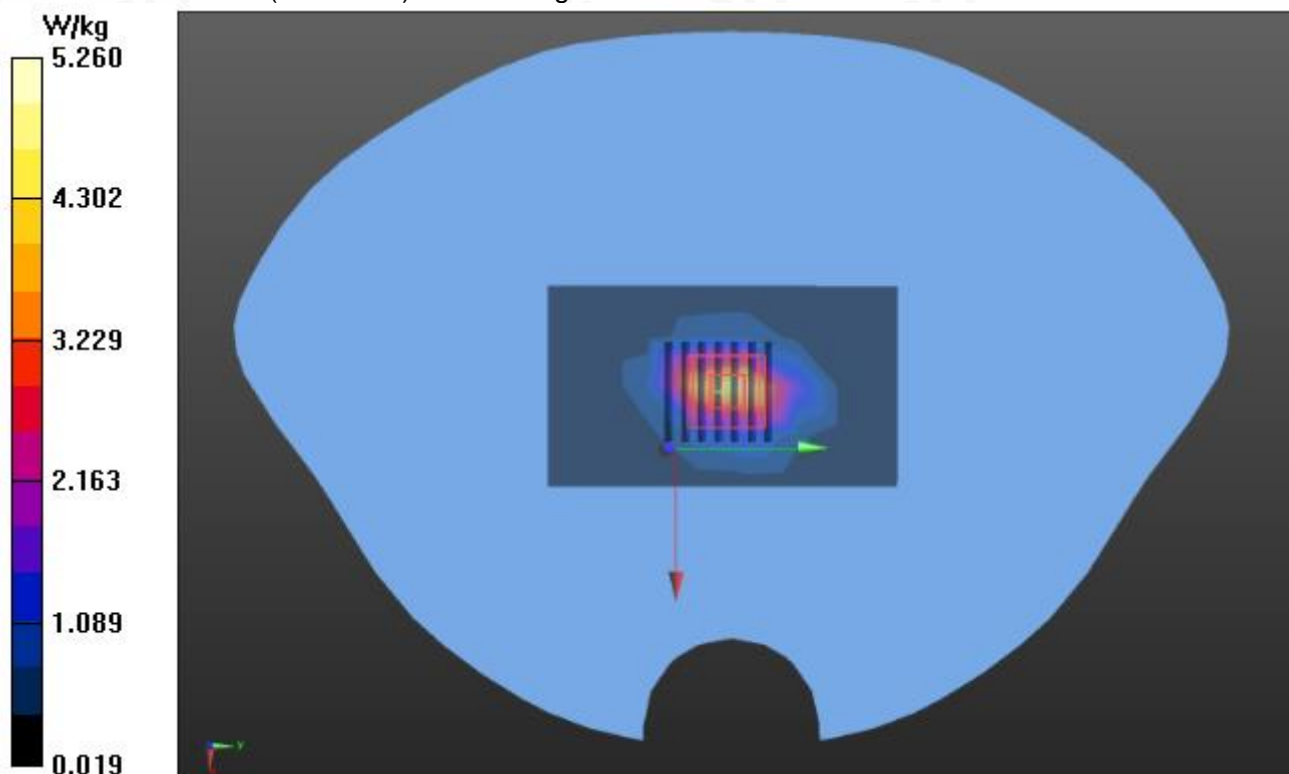
**Configuration/System Check Head 2450Hz/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.426 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 7.36 W/kg

**SAR(1 g) = 3.48 W/kg; SAR(10 g) = 1.47 W/kg**

Maximum value of SAR (measured) = 5.26 W/kg



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**Test Laboratory: AGC Lab**  
**System Check Head 5200 MHz**  
**DUT: Dipole 5000MHz Type: SWG5500**

**Date: Dec. 21, 2021**

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;  
Frequency: 5200 MHz; Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.54$  mho/m;  $\epsilon_r = 35.81$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm  
Ambient temperature (°C): 21.1, Liquid temperature (°C): 20.9.

DASY Configuration:

- Probe: EX3DV4 – SN:3953; ConvF(5.42, 5.42, 5.42); Calibrated: Aug. 27,2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check 5200MHz Head/Area Scan (10x13x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 2.74 W/kg

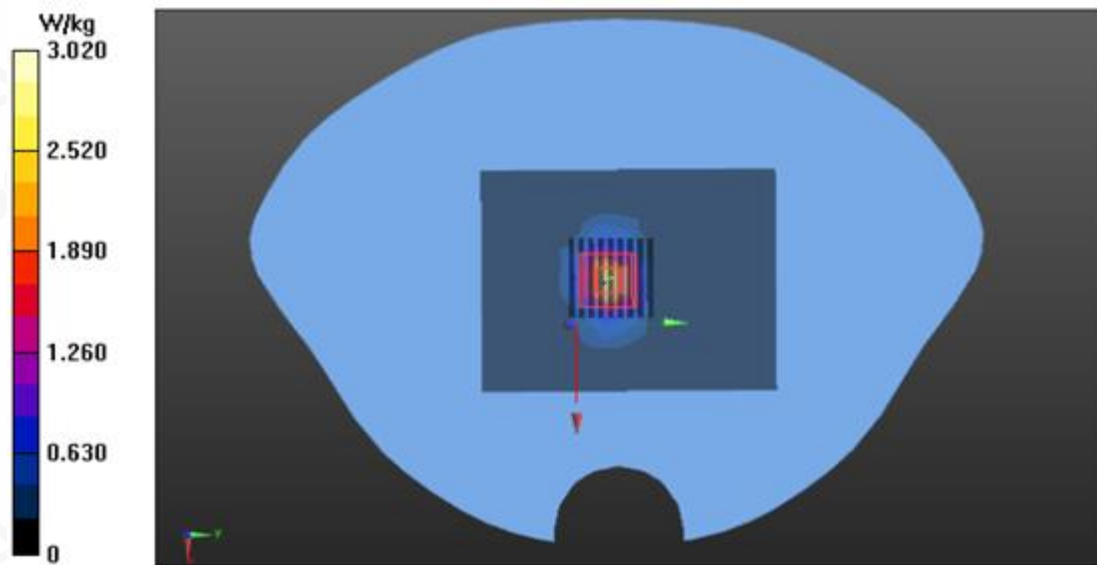
**Configuration/1 2 2/Zoom Scan (9x9x16)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 26.635 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 5.76 W/kg

**SAR(1 g) = 1.52 W/kg; SAR(10 g) = 0.537 W/kg**

Maximum value of SAR (measured) = 3.02 W/kg



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**Test Laboratory: AGC Lab**  
**System Check Head 5200 MHz**  
**DUT: Dipole 5000MHz Type: SWG5500**

**Date: Dec. 21, 2021**

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;  
Frequency: 5200 MHz; Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.75$  mho/m;  $\epsilon_r = 35.69$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm  
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.3.

DASY Configuration:

- Probe: EX3DV4 – SN:3953; ConvF(5.42, 5.42, 5.42); Calibrated: Aug. 27,2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0$ , 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check 5400MHz Head/Area Scan (10x13x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 2.74 W/kg

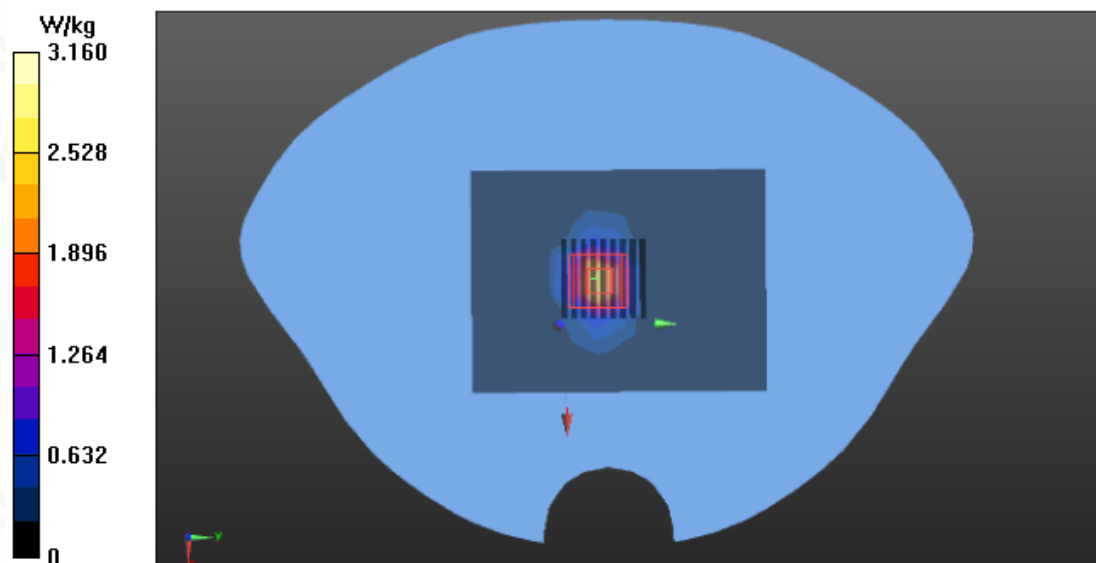
**Configuration/System Check 5400MHz Head/Zoom Scan (9x9x16)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 27.018 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 5.79 W/kg

**SAR(1 g) = 1.62 W/kg; SAR(10 g) = 0.587 W/kg**

Maximum value of SAR (measured) = 3.16 W/kg



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**Test Laboratory: AGC Lab**  
**System Check Head 5600 MHz**  
**DUT: Dipole 5000MHz Type: SWG5500**

**Date: Dec. 23, 2021**

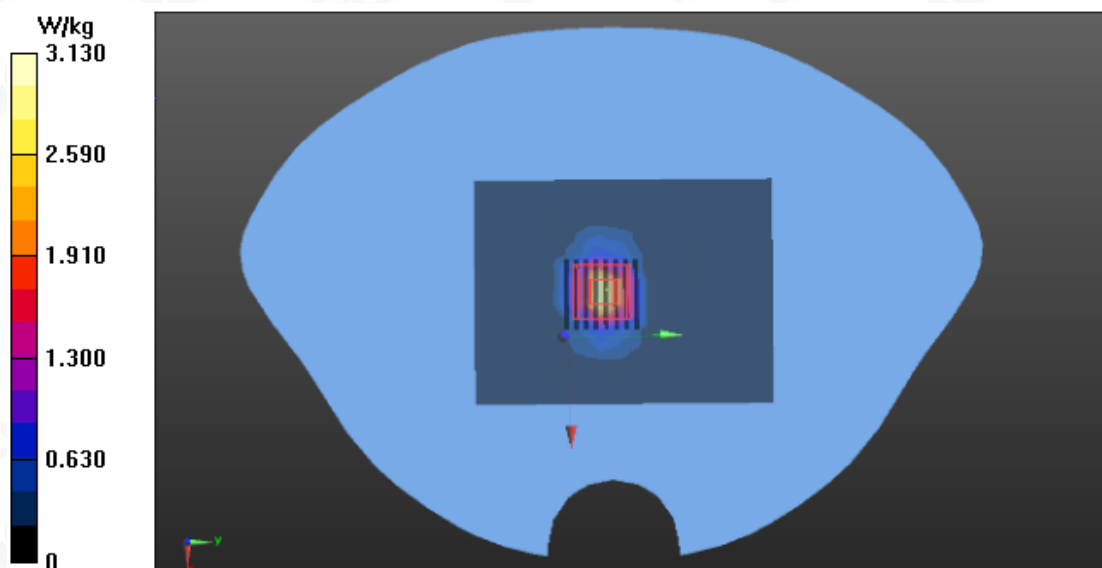
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;  
Frequency: 5600 MHz; Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.98$  mho/m;  $\epsilon_r = 34.79$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm  
Ambient temperature (°C): 21.6, Liquid temperature (°C): 21.4.

DASY Configuration:

- Probe: EX3DV4 – SN:3953; ConvF(4.91, 4.91, 4.91); Calibrated: Aug. 27,2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check 5600MHz Head/Area Scan (10x13x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (measured) = 2.99 W/kg

**Configuration/System Check 5600MHz Head/Zoom Scan (8x8x13)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm  
Reference Value = 26.678 V/m; Power Drift = 0.05 dB  
Peak SAR (extrapolated) = 5.57 W/kg  
**SAR(1 g) = 1.71 W/kg; SAR(10 g) = 0.576 W/kg**  
Maximum value of SAR (measured) = 3.13 W/kg



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**Test Laboratory: AGC Lab**  
**System Check Head 5800 MHz**  
**DUT: Dipole 5000MHz Type: SWG5500**

**Date: Dec. 22, 2021**

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;  
Frequency: 5800 MHz; Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.32$  mho/m;  $\epsilon_r = 35.71$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm  
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.6.

DASY Configuration:

- Probe: EX3DV4 – SN:3953; ConvF(4.96, 4.96, 4.96); Calibrated: Aug. 27,2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0$ , 31.0
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check 5800MHz Head/Area Scan (10x13x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 4.17 W/kg

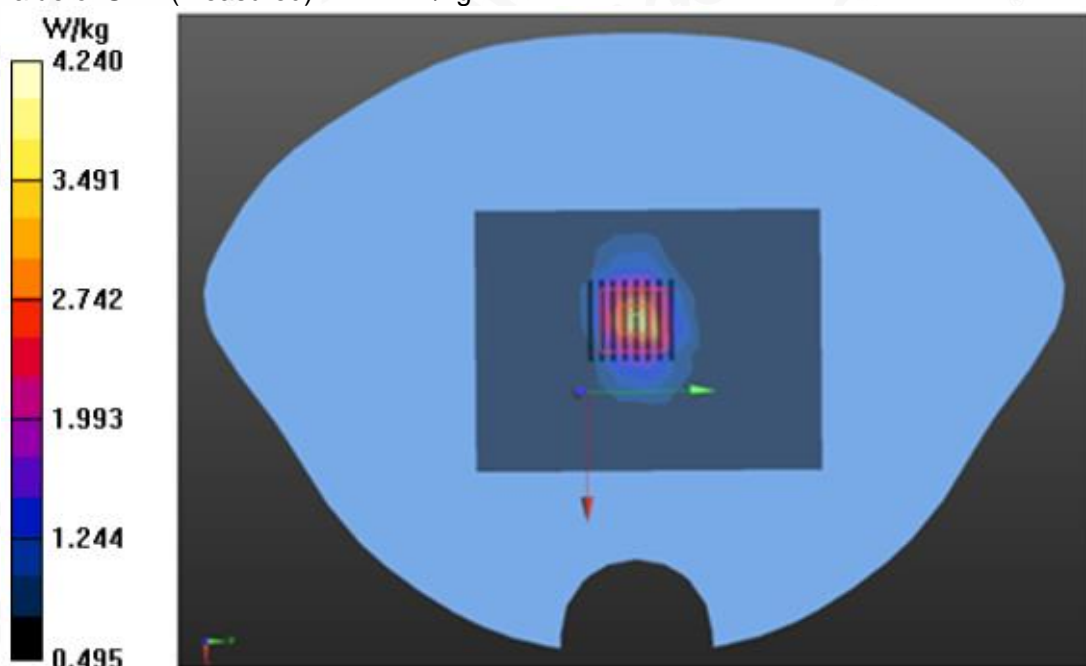
**Configuration/System Check 5800MHz Head/Zoom Scan (8x8x13)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 21.935 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 6.99 W/kg

**SAR(1 g) = 1.89 W/kg; SAR(10 g) = 0.637 W/kg**

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



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## APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab

Date: Dec. 20, 2021

802.11b Mid- Body- Back (DTS)

DUT: Body Worn Camera; Type: KS2

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;  
Frequency: 2437 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.75$  mho/m;  $\epsilon_r = 38.95$ ;  $\rho = 1000$  kg/m<sup>3</sup>;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

DASY Configuration:

- Probe: EX3DV4 – SN:3953; ConvF(7.60, 7.60, 7.60); Calibrated: Aug. 27, 2021;
- Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 SN1398; Calibrated: May 17, 2021
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/BACK/Area Scan (7x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.875 W/kg

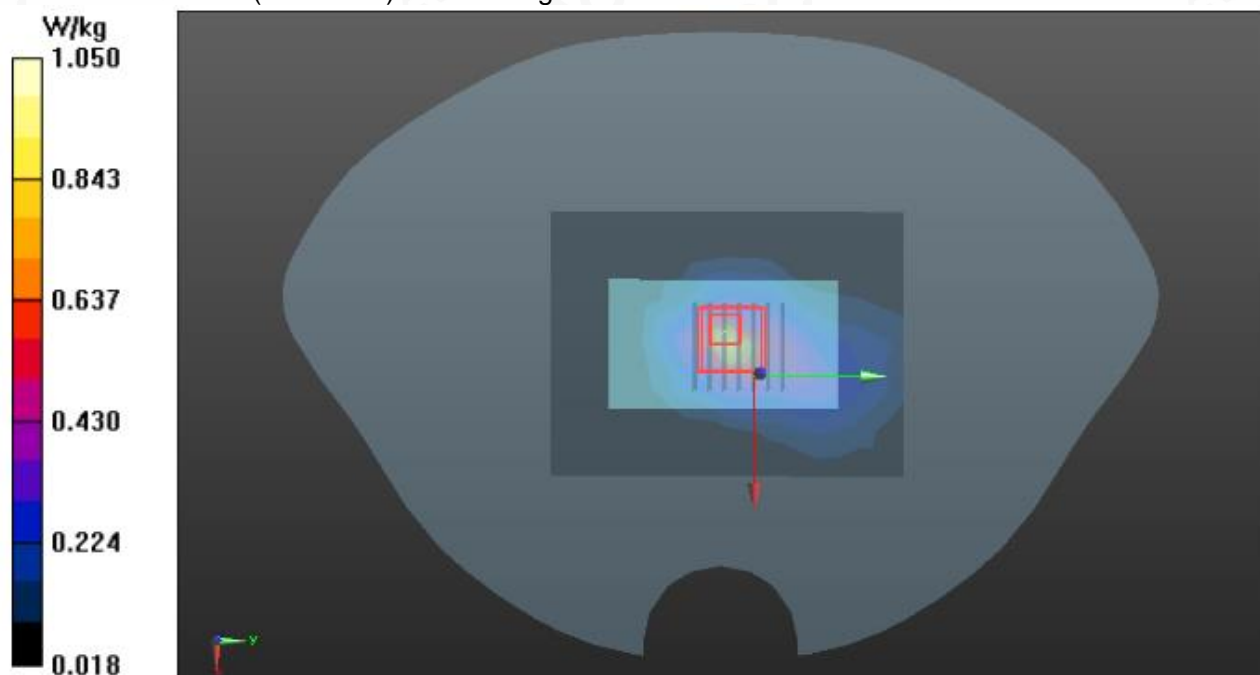
**BODY/BACK/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 21.834 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.86 W/kg

**SAR(1 g) = 0.554 W/kg; SAR(10 g) = 0.303 W/kg**

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



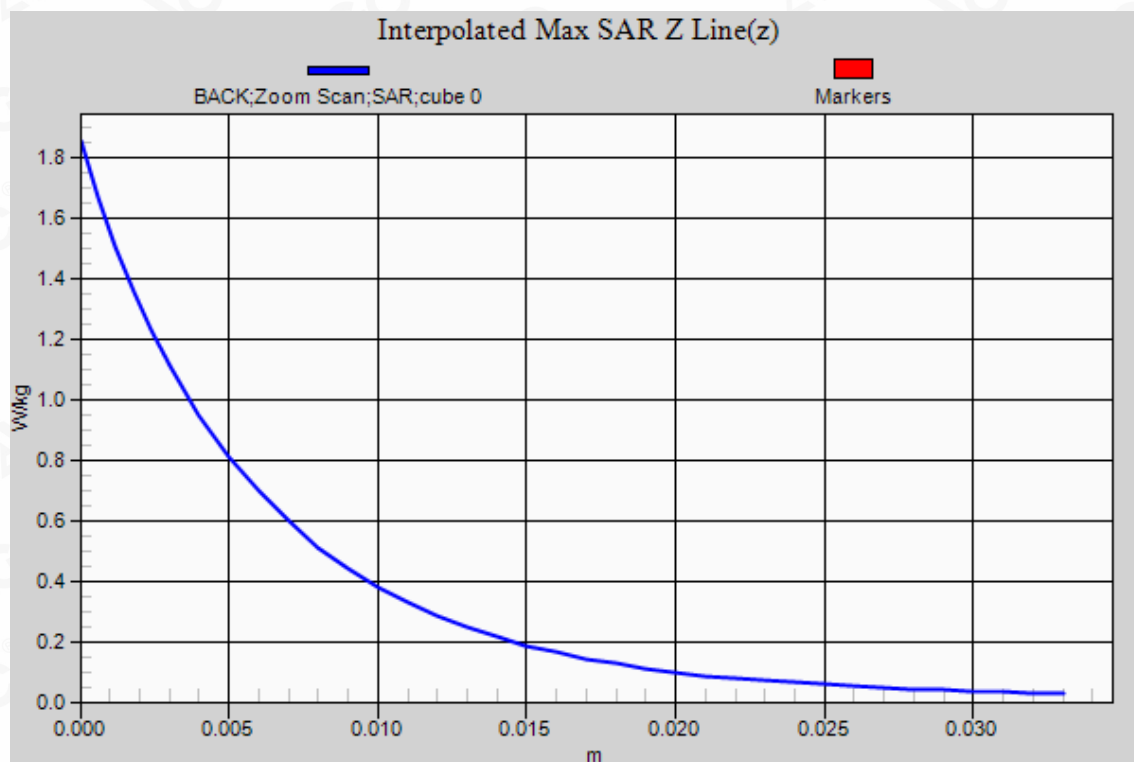
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**Test Laboratory: AGC Lab**  
**5.2GHz -802.11a CH40- Body- Back**  
**DUT: Body Worn Camera; Type: KS2**

**Date: Dec. 21, 2021**

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1  
Frequency: 5200 MHz; Medium parameters used:  $f = 5250\text{MHz}$ ;  $\sigma = 4.54\text{ mho/m}$ ;  $\epsilon_r = 35.81$ ;  $\rho = 1000\text{ kg/m}^3$  ;  
Phantom section: Flat Section  
Ambient temperature ( $^{\circ}\text{C}$ ): 21.1, Liquid temperature ( $^{\circ}\text{C}$ ): 20.9

DASY Configuration:

- Probe: EX3DV4 – SN:3953; ConvF(5.42, 5.42, 5.42); Calibrated: Aug. 27,2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/BACK/Area Scan (7x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) = 1.34 W/kg

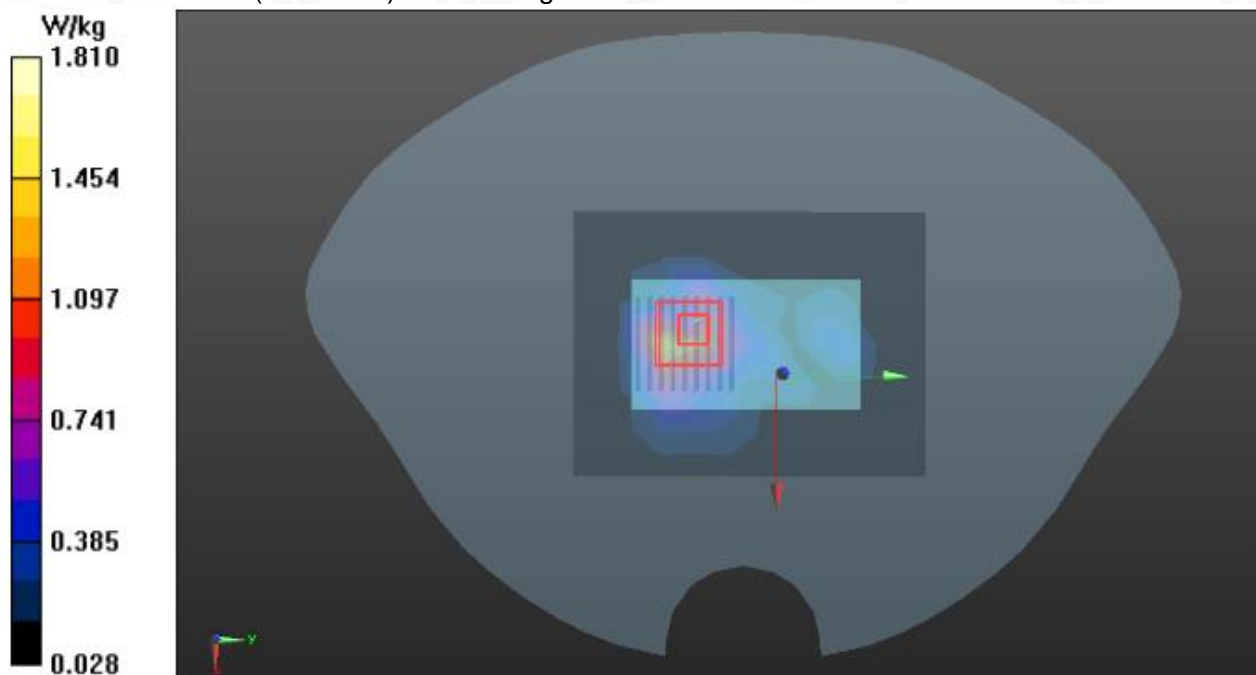
**BODY/BACK/Zoom Scan (9x9x16)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 9.417 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.72 W/kg

**SAR(1 g) = 0.623 W/kg; SAR(10 g) = 0.363 W/kg**

Maximum value of SAR (measured) = 1.81 W/kg



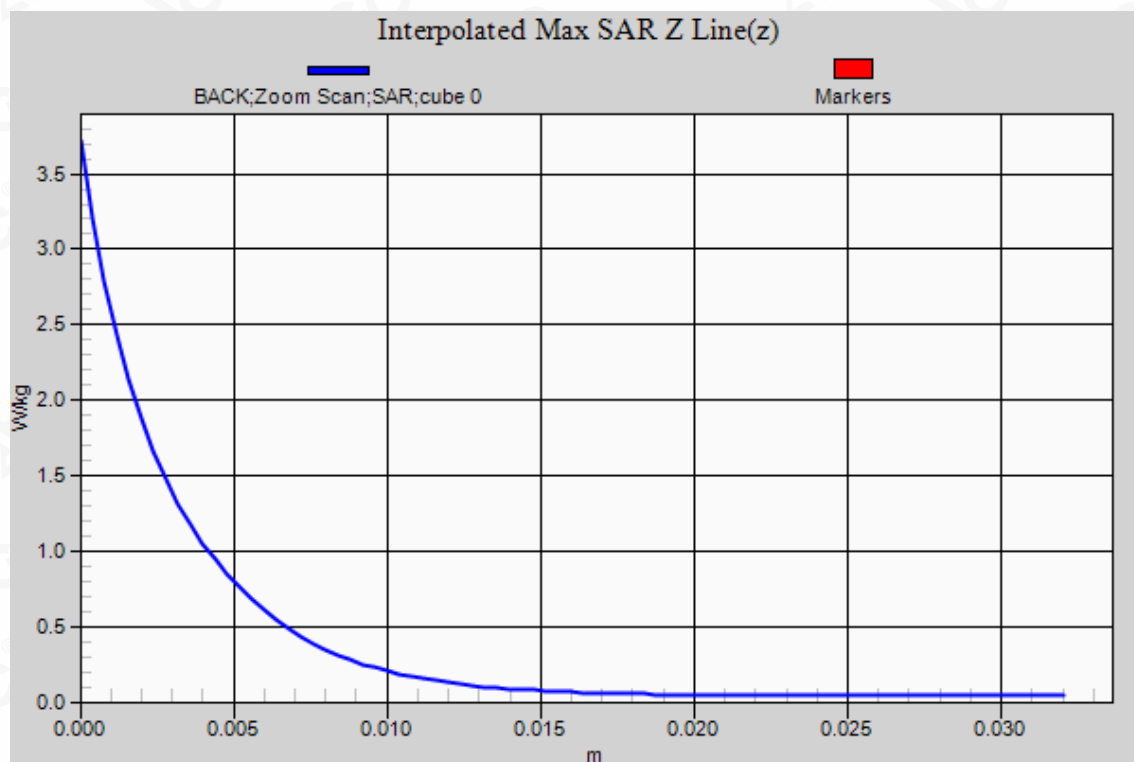
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**Test Laboratory: AGC Lab**  
**5.3GHz -802.11a CH56- Body- Back**  
**DUT: Body Worn Camera; Type: KS2**

**Date: Dec. 21, 2021**

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1  
Frequency: 5280 MHz; Medium parameters used:  $f = 5250\text{MHz}$ ;  $\sigma = 4.74\text{ mho/m}$ ;  $\epsilon_r = 36.78$ ;  $\rho = 1000\text{ kg/m}^3$  ;  
Phantom section: Flat Section  
Ambient temperature ( $^{\circ}\text{C}$ ): 21.4, Liquid temperature ( $^{\circ}\text{C}$ ): 21.3

DASY Configuration:

- Probe: EX3DV4 – SN:3953; ConvF(5.42, 5.42, 5.42); Calibrated: Aug. 27,2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/BACK/Area Scan (7x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) = 1.22 W/kg

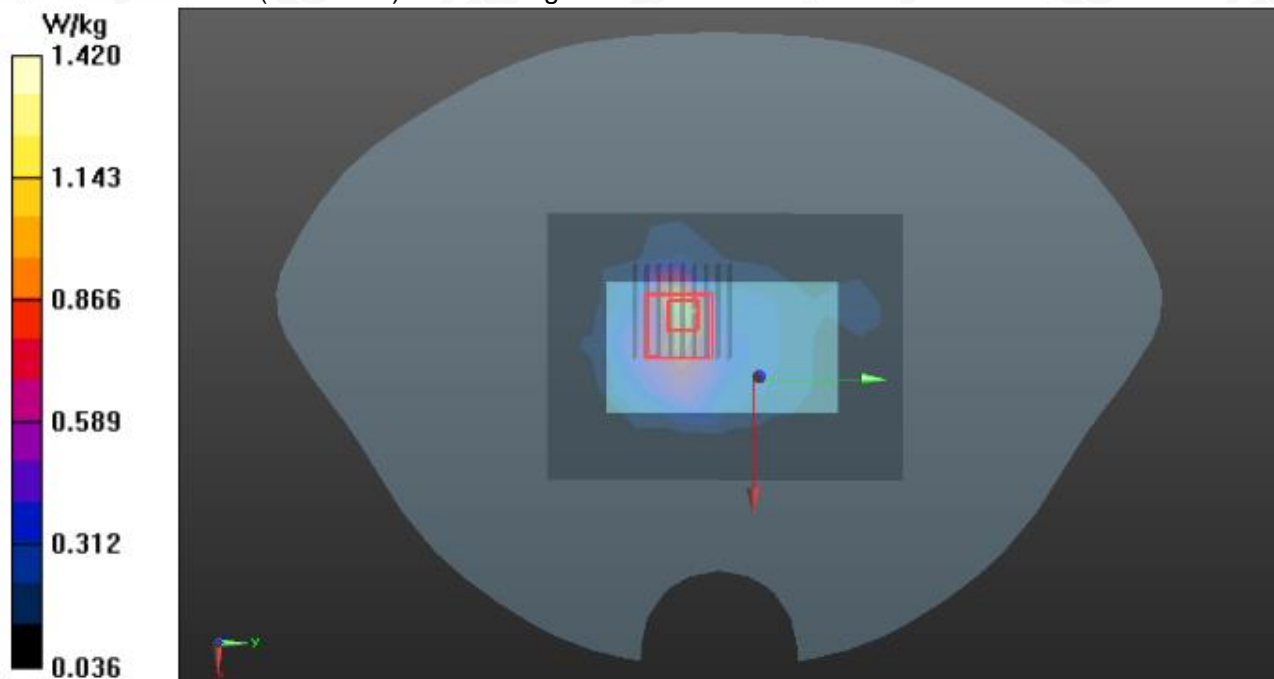
**BODY/BACK/Zoom Scan (9x9x16)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 9.184 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.97 W/kg

**SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.318 W/kg**

Maximum value of SAR (measured) = 1.42 W/kg



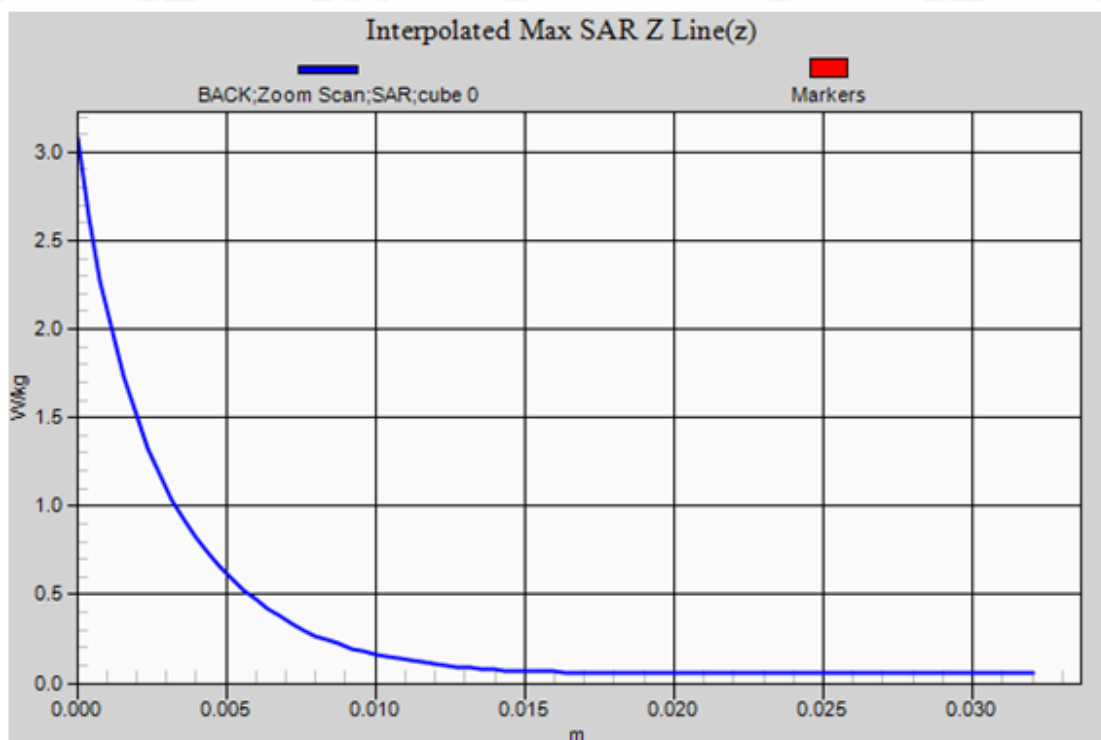
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**Test Laboratory: AGC Lab**  
**5.5GHz -802.11a CH116- Body- Back**  
**DUT: Body Worn Camera; Type: KS2**

**Date: Dec. 23, 2021**

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1  
Frequency: 5580; Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.97$  mho/m;  $\epsilon_r = 34.85$   $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.6, Liquid temperature (°C): 21.4

DASY Configuration:

- Probe: EX3DV4 – SN:3953; ConvF(4.91, 4.91, 4.91); Calibrated: Aug. 27,2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/BACK/Area Scan (7x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 1.80 W/kg

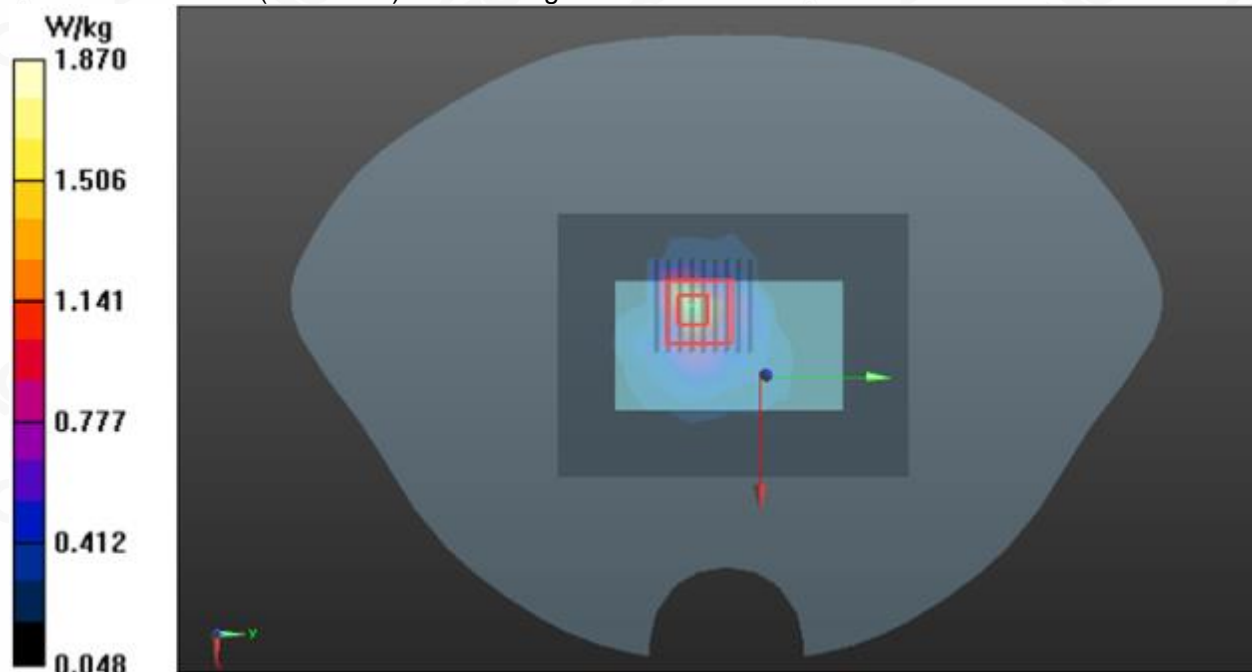
**BODY/BACK/Zoom Scan (9x9x16)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 12.612 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 4.11 W/kg

**SAR(1 g) = 0.631 W/kg; SAR(10 g) = 0.275 W/kg**

Maximum value of SAR (measured) = 1.87 W/kg



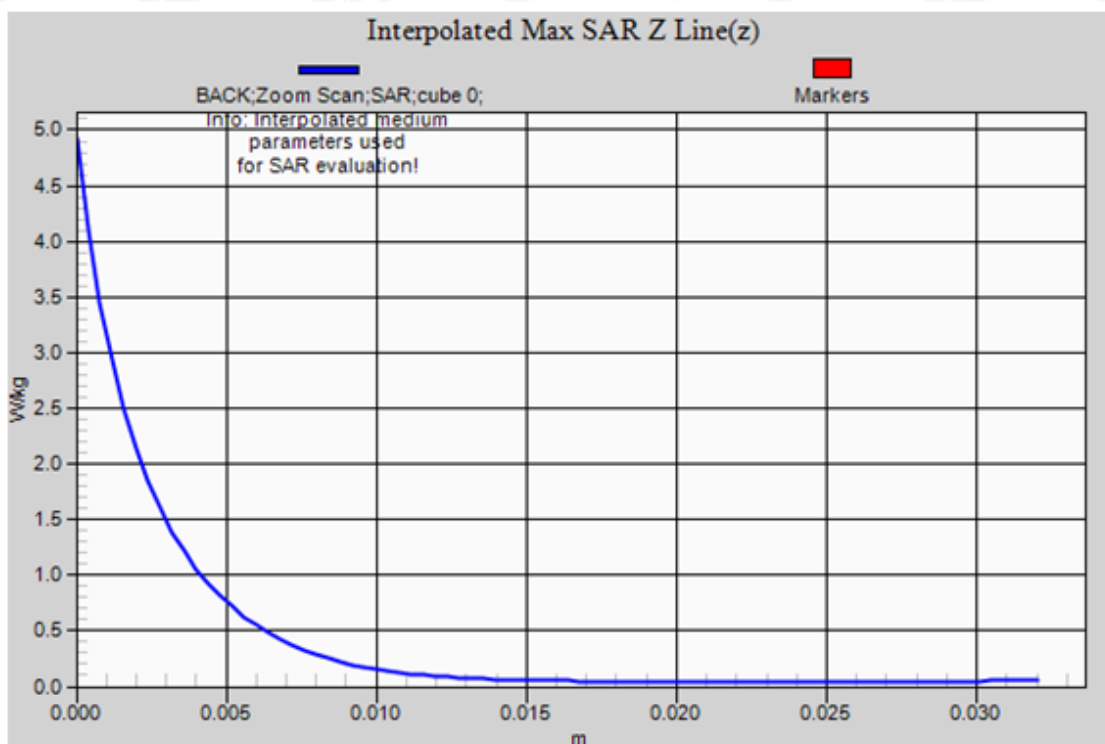
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**Test Laboratory: AGC Lab**  
**5.8GHz -802.11a CH157- Body- Back**  
**DUT: Body Worn Camera; Type: KS2**

**Date: Dec. 22, 2021**

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1  
Frequency: 5785 MHz; Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.31$  mho/m;  $\epsilon_r = 35.92$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.6

**DASY Configuration:**

- Probe: EX3DV4 – SN:3953; ConvF(4.96, 4.96, 4.96); Calibrated: Aug. 27,2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/BACK/Area Scan (7x9x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 1.68 W/kg

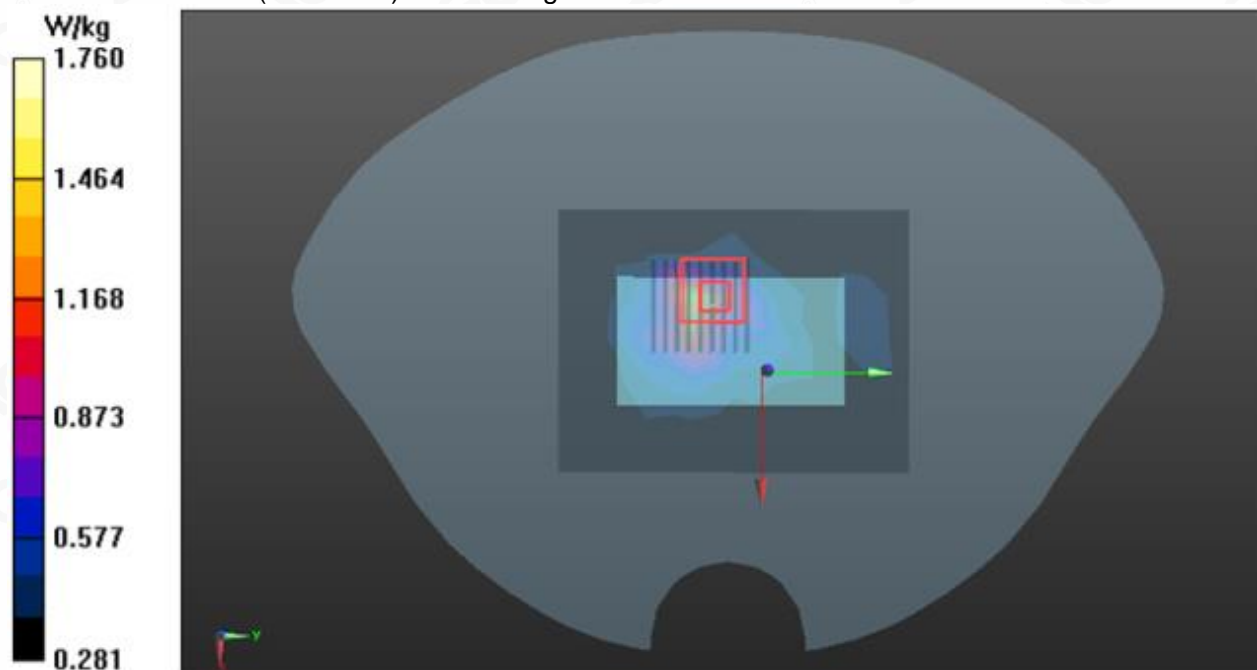
**BODY/BACK/Zoom Scan (9x9x16)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 12.057 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.35 W/kg

**SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.236 W/kg**

Maximum value of SAR (measured) = 1.76 W/kg



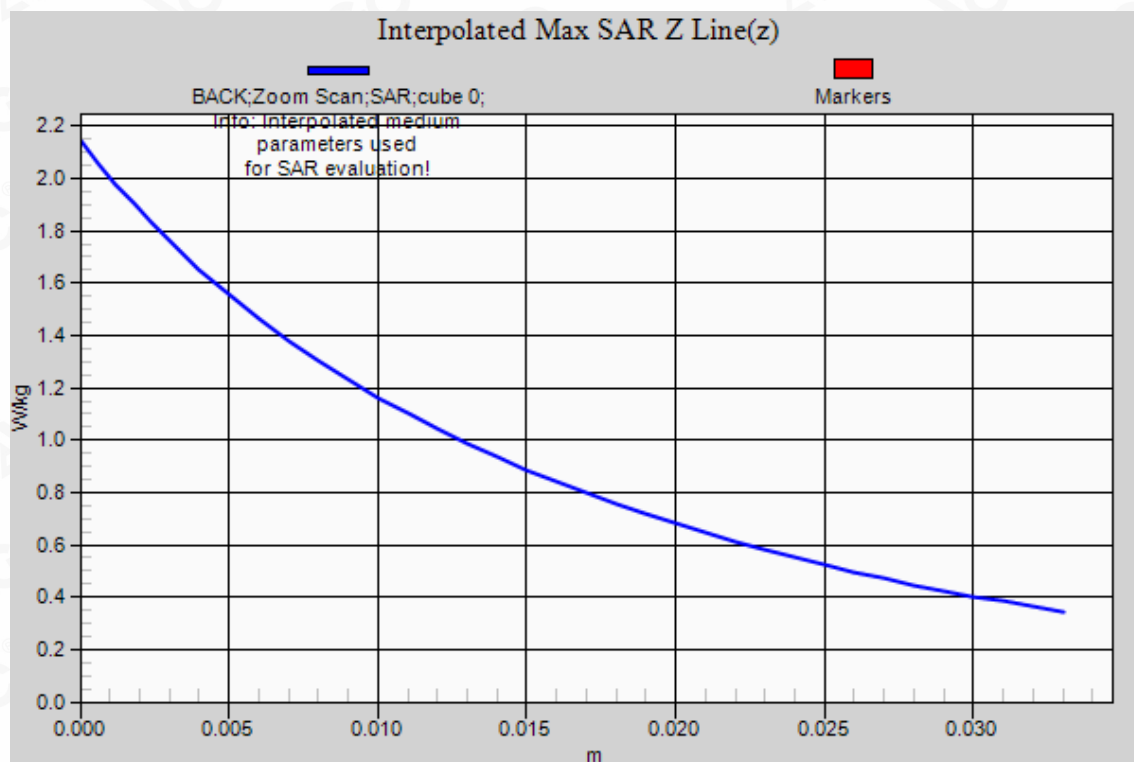
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## APPENDIX C. TEST SETUP PHOTOGRAPHS

Body Back 0mm



Body Front 0mm



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Edge 1(Top) 0mm



Edge 2(Right) 0mm



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Edge 3(Bottom) 0mm



Edge 4(Left) 0mm



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### DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

Note : The position used in the measurement were according to IEEE 1528-2013



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## APPENDIX D. CALIBRATION DATA

Refer to Attached files.

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## Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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