

SAR Test Report

Report No.: AGC02415190301FH01

FCC ID : Q9SAWR-D6000

PRODUCT DESIGNATION: DMR RADIO

BRAND NAME : ADVANCED WIRELESS COMMUNICATIONS

MODEL NAME : AWR-D6000

CLIENT Northfield Telecommunications, Inc. d/b/a Advanced Wireless

Communications

DATE OF ISSUE : June 06,2019

IEEE Std. 1528:2013

STANDARD(S) : FCC 47 CFR Part 2§2.1093:2013

IEEE C95.1TM:2005

REPORT VERSION : V1.1

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	No. of the second of the secon	Apr. 28,2019	Invalid	Initial Release
V1.1	1 st	June 06,2019	Valid	Added annual check of dipoles

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	Test Report
Applicant Name	Northfield Telecommunications, Inc. d/b/a Advanced Wireless Communications
Applicant Address	20809 Kensington Blvd Lakeville, MN 55044, USA
Manufacturer Name	Fujian New Century Communications Co., Ltd
Manufacturer Address	No. 1 Fengshou Road, Quanzhou City, Fujian Province, China
Factory Address	Fujian New Century Communications Co., Ltd
Factory Name	No. 1 Fengshou Road, Quanzhou City, Fujian Province, China
Product Designation	DMR RADIO
Brand Name	ADVANCED WIRELESS COMMUNICATIONS
Model Name	AWR-D6000
Different Description	N/A
EUT Voltage	DC3.7 V
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093:2013 IEEE C95.1TM:2005
Test Date	Mar. 28,2019
Report Template	AGCRT- US -PTT/SAR (2018-02-02)

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

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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:

Highest Report standalone SAR Summary (50% duty cycle)

Frequency	Type of signal	Congration	Highest Reported 1g-SAR(W/Kg)			
Band Type of signal		Separation	Face Up (with 25mm separation)	Back Touch		
450	Analog	12.5KHz	0.659	1.150		
450	Digital	12.5KHz	0.315	0.713		

This device is compliance with Specific Absorption Rate (SAR) for Occupational / Controlled Exposure Environment limits (8.0W/Kg) specified in 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1, and had been tested in accordance with measurement methods and procedures specified in IEEE 1528-2013 and the following specific FCC Test Procedures:

KDB447498 D01 General RF Exposure Guidance v06

KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04

KDB 643646 D01 SAR Test for PTT Radios v01r03

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2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Name	DMR RADIO
Test Model	AWR-D6000
Hardware Version	C7DM320-2.0
Software Version	7.8.72
Exposure Category:	Occupational/Controlled Exposure
Device Category	FM Portable Transceiver
Modulation Type	FM/4FSK
TX Frequency Range	400-480MHz
Rated Power	2W/0.5W (It was fixed by the manufacturer, any individual can't arbitrarily change it)
Max. Average Power	UHF:32.46dBm
Channel Spacing	12.5 KHz
Antenna Type	Detachable
Antenna Gain	1.7dBi
Body-Worn Accessories:	Belt Clip with headset
Face-Head Accessories:	None
Battery Type (s) Tested:	DC3.7V, 2200mAh (by battery)
Note: The sample used for te	sting is end product.
A Comple	Type

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Production unit

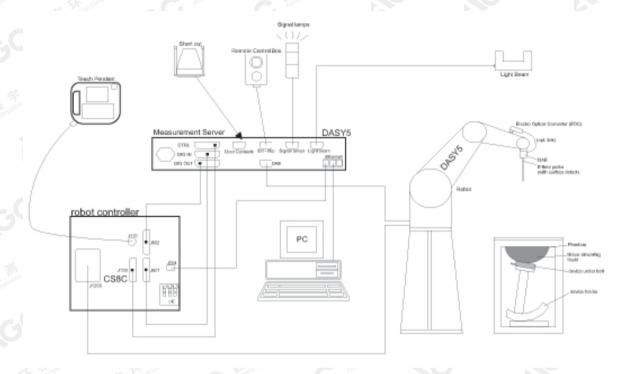
Identical Prototype



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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, EN62209,IEC 62209, etc.)Under ISO17025.The calibration data are in Appendix D.

Isotropic E-Field Probe Specification

Model	EX3DV4
Manufacture	SPEAG
frequency	0.15GHz-0.45 GHz Linearity:±0.6%dB(K=2)(0.15MHz-0.45 GHz)
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.6%dB(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 3 GHz with precision of better 30%.

3.3. Data Acquisition Electronics description

The data acquisition electronics (DAE) consist if a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement sever is accomplished through an optical downlink fir 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

Input Impedance	200MOhm		Control of the Contro
The Inputs	Symmetrical and floating	O CODO	2Dot BM itreffand
	GC * NO	E CONTROL OF THE PARTY OF THE P	DAEA SMR 738 Print 30 00 Marte in Sv
Common mode rejection	above 80 dB		endaes
The state of the s			

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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 ϵ =3 and loss tangent δ = 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.



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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

 $\hfill\Box$ 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:

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

$$SAR = c_h \frac{dT}{dt} \Big|_{t=0}$$

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_h is the heat capacity of the tissue in joules per kilogram and Kelvin;

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

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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 SATIMO 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 and IEC62209 standards, 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

	≤3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
	≤2 GHz: ≤15 mm 2 – 3 GHz: ≤12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension o measurement plane orientation the measurement resolution r x or y dimension of the test d measurement point on the tes	on, is smaller than the above, nust be ≤ the corresponding evice with at least one

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

			LA YOU	JUL CO.
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^{+}$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^{+}$
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{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
	grid	Δz _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

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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^{*} When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



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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 5% are listed in 5.3

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	Nacl	Sugar	HEC	Bactericide	DGBE	1,2- Propanediol	Triton X-100
450 Head (100%)	38.56	3.95	56.32	0.98	0.19	0.0	0.0	0.0
450 Body (100%)	51.16	1.49	46.78	0.52	0.05	0.0	0.0	0.0

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE 1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in IEEE 1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in IEEE 1528.

Target Frequency	ŀ	nead	bo	ody
(MHz)	εr	σ (S/m)	εr	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	51.6	2.73

(ϵr = relative permittivity, σ = conductivity and ρ = 1000 kg/m3)

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5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using DASY5 Dielectric Probe Kit and R&S Network Analyzer ZVL6.

			2////	- 3N NOV
	Tissue Stimulai	nt Measurement for 450MHz		-
42 m	Dielectric Pa		Ane	
Fr.	The Complant Co. Miles and H.	Tissue Temp	Test time	
(MHz)	εr43.50(41.325 - 45.675)	δ[s/m]0.87(0.8265 - 0.9135)	[°C]	0 F 5
400.025	44.56	0.83	F of Global Com	Alleston
416.025	44.13	0.84	lion "	C
432.025	43.87	0.85		
448.025	43.62	0.86	20.9	Mar. 28,2019
450.000	42.54	0.87		K Sempland
464.025	42.37	0.88	® Mastalion	
479.975	42.18	0.89		
maliance _ # F	Dielectric Pa	rameters (±5%)	Tissue	:10
Fr. (MHz)		Temp	Test time	
(1711 12)	εr56.7(53.865 to 59.535)	δ[s/m] 0.94(0.893 to 0.987)	[°C]	(8) The story of Global C
400.025	57.56	0.90		Alles
416.025	57.32	0.91		
432.025	56.68	0.92		-1111
448.025	56.42	0.93	20.8	Mar. 28,2019
450.000	55.62	0.94	© A GOOD	obal Cu
464.025	55.47	0.95	Allestation	
479.975	55.31	0.96		

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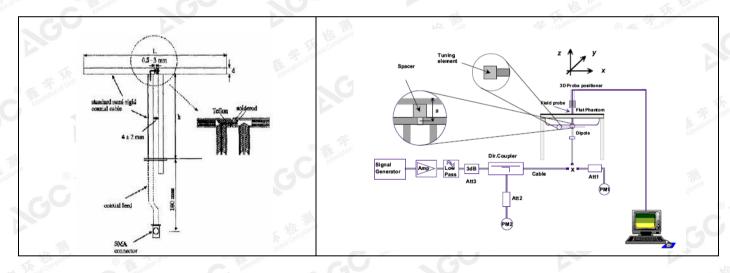
6. SAR SYSTEM CHECK PROCEDURE

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.

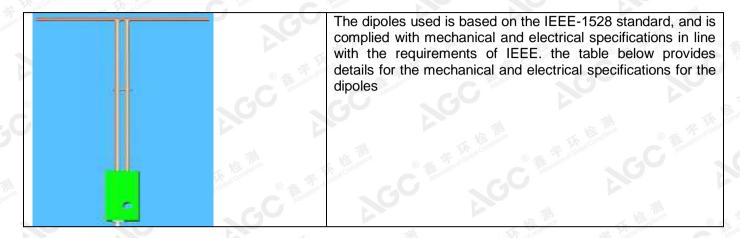


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6.2. SAR System Check 6.2.1. Dipoles



	Frequency	R/L (mm)	R/h (mm)	d (mm)
Í	450MHz	290	166.7	6.35

6.2.2. System Check Result

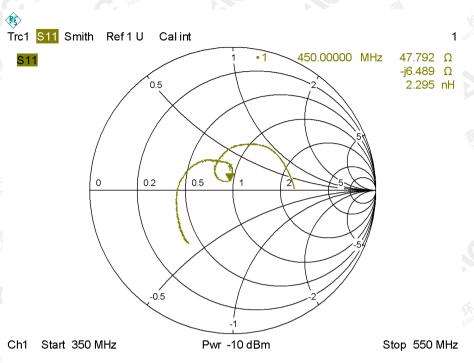
System Performance Check at 450MHz									
Validation Kit: SN 46/11DIP 0G450-184									
Frequency		rget (W/Kg)		Reference Result (± 10%)		Normalized to 1W(W/Kg)		Test time	
[MHz]	1g	10g	, 🧌 1g	10g	1g	10g	Temp. [°C]	Allestant	
450 head	4.74	3.12	4.266-5.214	2.808-3.432	4.56	3.06	20.9	Mar. 28,2019	
450 body	4.78	3.19	4.302-5.258	2.871-3.509	4.66	3.19	20.8	Mar. 28,2019	

Note:

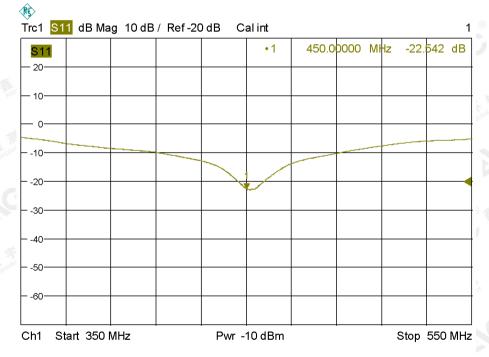
(1) We use a CW signal of 18dBm (450MHz) for system check, and then all SAR value are normalized to 1W forward power. The result must be within ±10% of target value.

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Date: 17.DEC.2018 06:11:53



Date: 17.DEC.2018 06:10:08

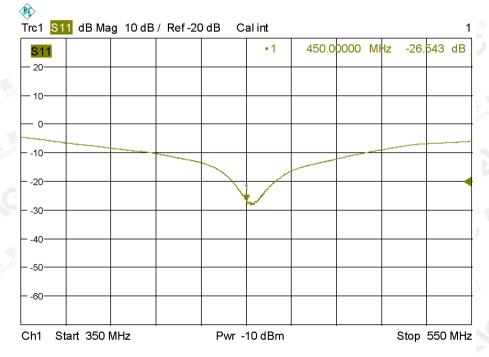
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Date: 17.DEC.2018 06:12:29



Date: 17.DEC.2018 06:10:41

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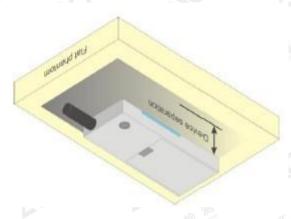
7. EUT TEST POSITION

This EUT was tested in Front Face and Rear Face.

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 **25mm** while used in front of face, and body back touch with belt clip.





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8. SAR EXPOSURE LIMITS

Limits for Occupational / Controlled Exposure Environment

Type Exposure Limits	Occupational / Controlled Exposure Environment(W/Kg)
Spatial Average SAR (whole body)	8.0

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Attestation of Global Compliance

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F. , Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



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9. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	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.	Current calibration date	Next calibration date
Stäubli Robot	Stäubli-TX60	F13/5Q2UD1/A/01	N/A	N/A
Robot Controller	Stäubli-CS8	139522	N/A	N/A
E-Field Probe	Speag- EX3DV4	SN:3953	June 26,2018	June 25,2019
ELI4 Phantom	ELI V5.0	1210	N/A	N/A
Device Holder	Speag-SD 000 H01 KA	SD 000 H01 KA	N/A	N/A
DAE4	Speag-SD 000 D04 BM	1398	Feb. 16,2019	Feb. 15,2020
SAR Software	Speag-DASY5	DASY52.8	N/A	N/A
Liquid	SATIMO	· · · · · · · · · · · · · · · · · · ·	N/A	N/A
Dipole	SATIMO SID450	SN46/11 DIP 0G450-184	Mar. 10,2017	Mar. 09,2020
Signal Generator	Agilent-E4438C	US41461365	Nov. 01,2018	Oct. 31,2019
Vector Analyzer	Agilent / E4440A	US41421290	Feb. 27,2019	Feb. 26,2020
Network Analyzer	Rhode & Schwarz ZVL6	SN 101443	Nov. 01,2018	Oct. 31,2019
Attenuator	Warison /WATT-6SR1211	N/A	N/A	N/A
Amplifier	EM30180	SN060552	Feb. 27,2019	Feb. 26,2020
Directional Couple	Werlatone/ C5571-10	SN99463	Jun. 12,2018	Jun. 11,2019
Power Sensor	NRP-Z21	1137.6000.02	Sep. 20,2018	Sep. 19,2019
Power Sensor	NRP-Z23	US38261498	Feb. 19,2019	Feb. 18,2020
Power Viewer	R&S	V2.3.1.0	N/A	N/A

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

The component of uncertainly may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainly by the statistical analysis of a series of observations is termed a Type An evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in Table as follow.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor(a)	1/k(b)	1/√3	1/√6	1/√2

- (a) Standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity
- (b) κ is the coverage factor

Table 13.1 Standard Uncertainty for Assumed Distribution (above table)

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

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			SY5 Ur						
Measuremen	t uncertai			3GHz a	veraged ov	/er 1 gram /	77.01.00		6100
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System		_a.C	Alles						TIII.
Probe calibration	E.2.1	6.65	N	1	1	1 -	6.65	6.65	8
Axial Isotropy	E.2.2	0.25	R	$\sqrt{3}$	强 oliance 1	EN KE pompilari	0.14	0.14	8
Hemispherical Isotropy	E.2.2	1.3	R	$\sqrt{3}$	1 @ 🐔	The state of the s	0.75	0.75	- ∞
Linearity	E.2.4	0.3	R	$\sqrt{3}$	-10	1	0.17	0.17	- ∞
Probe modulation	E.2.5	1.65	R	$\sqrt{3}$	1	1	0.95	0.95	8
Detection limits	E.2.4	0.9	R	$\sqrt{3}$	1	1	0.52	0.52	∞
Boundary effect	E.2.3	0.9	R	$\sqrt{3}$	The Manne	1 🚜	0.52	0.52	∞
Readout Electronics	E.2.6	0.2	N	1 ®	atalion of Com	1 Milestation	0.20	0.20	∞
Response Time	E.2.7	0.0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	E.2.8	0.0	R	√3	1	1	0.00	0.00	∞
RF ambient Conditions-noise	E.6.1	0.9	R	$\sqrt{3}$	1	Tomphance	0.52	0.52	8
RF ambient Conditions-reflections	E.6.1	0.9	R	$\sqrt{3}$		1	0.52	0.52	8
Probe positioned mech. restrictions	E.6.2	0.7	R	$\sqrt{3}$	1	1	0.40	0.40	∞
Probe positioning with respect to phantom shell	E.6.3	6.5	R	√3	相刊	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.75	3.75	∞
Post-processing	E.5	3.8	R	$\sqrt{3}$	obal 1	1	2.19	2.19	∞
Test sample related	hphi	Attestation C	- C	Altestan					
Device holder uncertainty	E.4.1	3.6	N	1	1	1	3.60	3.60	M-1
Test sample positioning	E.4.2	3.2	N	:311	1 1	1 1	3.20	3.20	M-1
SAR scaling	E.6.5	0	R	$\sqrt{3}$	I IN all	1	0.00	0.00	8
Drift of output power(measured SAR drift)	E.2.9	5.0	R	$\sqrt{3}$	Alles tation of	1000	2.89	2.89	8
Phantom and set-up	station								THE ST
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	√3	A Compliant	The	0.03	0.03	∞
Algorithm for correcting SAR for deviations in permittivity and conductivity	E.3.2	1.9	N	1	CIC	0.84	1.90	1.60	8
Liquid conductivity (meas.)	E.3.3	5	N	1	0.78	0.71	3.90	3.55	M-1
Liquid permittivity (meas.)	E.3.3	5	N 🕬	1	0.23	0.26	1.15	1.30	М
Liquid permittivity – temperature uncertainty	E.3.4	5	R	$\sqrt{3}$	0.78	0.71	2.25	2.05	∞
Liquid conductivity – temperature uncertainty	E.3.4	5	R	$\sqrt{3}$	0.23	0.26	0.66	0.75	8
Combined Standard Uncertainty			RSS	The spince	R the	To Global Compliance	10.65	10.39	0
Expanded Uncertainty (95% Confidence interval)	O 184	of Global Compilar	o k	Glopal Con.	4C ***	\G	21.30	20.78	

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System v	alldation			Hz avera	aged over 1	gram / 10		10%	- //
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System	® 5 7	n of Globe	The state of Glob		60		,	100	
Probe calibration	E.2.1	6.65	N	1	1	1	6.65	6.65	∞
Axial Isotropy	E.2.2	0.25	R	$\sqrt{3}$	1	1	0.14	0.14	∞
Hemispherical Isotropy	E.2.2	1.3	R	$\sqrt{3}$	1 1	1 Kill plan	0.75	0.75	
Linearity	E.2.4	0.3	obodica R	$\sqrt{3}$	1 _@	15 of 10 at 10	0.17	0.17	∞
Probe modulation	E.2.5	1.65	R	$\sqrt{3}$	1	1	0.95	0.95	∞
Detection limits	E.2.4	0.9	R	$\sqrt{3}$	1	1	0.52	0.52	∞
Boundary effect	E.2.3	0.9	R	$\sqrt{3}$	1 :	1	0.52	0.52	∞
Readout Electronics	E.2.6	0.2	N:111	1	A Kan	1 2	0.20	0.20	∞ ∞
Response Time	E.2.7	0.0	R	$\sqrt{3}$	A Jation Town	1 % testation	0.00	0.00	∞
Integration Time	E.2.8	0.0	R	$\sqrt{3}$	1	1,91	0.00	0.00	∞
RF ambient Conditions-noise	E.6.1	0.9	R	√3	1	1 1	0.52	0.52	8
RF ambient Conditions-reflections	E.6.1	0.9	R	$\sqrt{3}$	1 8	on of Global Tomphi	0.52	0.52	8
Probe positioned mech. restrictions	E.6.1	0.7	R	√3		16	0.40	0.40	8
Probe positioning with respect to phantom shell	E.6.2	6.5	R	$\sqrt{3}$	1	1	3.75	3.75	∞
Post-processing	E.6.3	3.8	R	$\sqrt{3}$	极节	@ 1 3 of	2.19	2.19	∞
System validation source(d	lipole)	五五	obal Compile.		P. Co.	Altestand		Alle	4
Deviation of the experimental source from numerical source	E6.4	5.3	N	1	1	1	5.30	5.30	8
Source to liquid distance	8,E.6.6	1.0	R	$\sqrt{3}$	1 1	Jilliance 1	0.58	0.58	∞
Drift of output power(measured SAR drift)	8,6.6.4	5.0	R	√3	Managara And Global C	1	2.89	2.89	∞
Phantom and set-up	F of Global	a.C	Attests	CAC	1				an)
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	√3	1	1	0.03	0.03	8
Algorithm for correcting SAR for deviations in permittivity and conductivity	E.3.2	1.9	N ®	Alles to Ton of Gio	10	0.84	1.90	1.60	8
Liquid conductivity (meas.)	E.3.3	5	N	1	0.78	0.71	3.90	3.55	M
Liquid permittivity (meas.)	E.3.3	5	N	1	0.23	0.26	1.15	1.30	М
Liquid permittivity – temperature uncertainty	E.3.4	, 5	R	√3 ⊚	0.78	0.71	2.25	2.05	8
Liquid conductivity – temperature uncertainty	E.3.4	5	R	$\sqrt{3}$	0.23	0.26	0.66	0.75	8
Combined Standard Uncertainty	NC.		RSS	ALIET .		TY Compliance	10.90	10.635	
Expanded Uncertainty (95% Confidence interval)		FY Compliance	k	Global Compliance	(C) And (C)	alion of Globa	21.79	21.270	9

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System	n check to			z averag	ed over 1 g	gram / 10 gi		T/ W	
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	V
Measurement System	® # 1910	1 of Globe	The stop of Glob		60		1		
Probe calibration drift	E.2.1.3	2.0	N	1	1	1	6.00	6.00	~
Axial Isotropy	E.2.2	0.25	R	$\sqrt{3}$	0	0	0	0	∞
Hemispherical Isotropy	E.2.2	1.3	R	$\sqrt{3}$	0	0	0 😞	0	
Linearity	E.2.4	0.3	R	$\sqrt{3}$	0	0	0	0	∞
Probe modulation	E.2.5	1.65	R	$\sqrt{3}$	0	0	0	0	∞
Detection limits	E.2.4	0.9	R	$\sqrt{3}$	0	0	0	0	∞
Boundary effect	E.2.3	0.9	R	$\sqrt{3}$	0	0	0	0	∞
Readout Electronics	E.2.6	0.2	N ₋₁₁	1	0	0 /2	3 O	0	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0	0	∞
Integration Time	E.2.8	0.0	R	$\sqrt{3}$	0	0	0	0	∞
RF ambient Conditions-noise	E.6.1	0.9	R	√3	0	0	0	0	∞
RF ambient Conditions-reflections	E.6.1	0.9	R	$\sqrt{3}$	0	on of color O	0	0	8
Probe positioned mech. restrictions	E.6.2	0.7	R	$\sqrt{3}$	GG	10	0.40	0.40	8
Probe positioning with respect to phantom shell	E.6.3	6.5	R	$\sqrt{3}$	1	1	3.75	3.75	8
Post-processing	E.5	3.8	R	$\sqrt{3}$	0	0	0	0 0	∞
System check source(dipol	le)	T. Fr	obal Compile.	一样。	3lopa ₁ Co.	Allestan		Alto	
Deviation of the experimental source from numerical source	E6.4	5.3	N	1	1	1	5.30	5.30	8
Source to liquid distance	8,E.6.6	1.0	R	$\sqrt{3}$	1 / 1	-June 1	0.58	0.58	∞
Drift of output power(measured SAR drift)	8,6.6.4	5.0	R	√3	Mario dall'h of Global C	1	2.89	2.89	×
Phantom and set-up	F Global	a.C	Atteste	CAC	1				- di
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	√3	利 1	1 1	0.03	0.03	8
Algorithm for correcting SAR for deviations in permittivity and conductivity	E.3.2	1.9	N ®	To do	10	0.84	1.90	1.60	∞
Liquid conductivity (meas.)	E.3.3	5	N	1	0.78	0.71	3.90	3.55	M
Liquid permittivity (meas.)	E.3.3	5	N	1	0.23	0.26	1.15	1.30	N
Liquid permittivity – temperature uncertainty	E.3.4	, 5	R	$\sqrt{3}$	0.78	0.71	2.25	2.05	∞
Liquid conductivity – temperature uncertainty	E.3.4	5	R	$\sqrt{3}$	0.23	0.26	0.66	0.75	∞
Combined Standard Uncertainty	N.C		RSS	TITE:		The Compliance	8.11	7.86	
Expanded Uncertainty (95% Confidence interval)		The Compliance	k	K Ki Compliance	(C) A.M.	ation of Globs	16.22	15.52	

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12. POWER MEASUREMENT

UHF: Analog

Unr. Analog	MZ IP					
Frequency (MHz)	Channel Spacing	Max. Output Power (dBm)				
2W	- CO - CO -	2 79				
400.025		32.21				
416.025		32.24				
432.025	40.51/1.1-	32.27				
448.025	12.5KHz	32.39				
464.025		32.31				
479.975		32.46				
0.5W	•					
400.025		26.31				
416.025		26.34				
432.025	10 EKU-	26.29				
448.025	- 12.5KHz	26.37				
464.025		26.42				
479.975		26.47				

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UHF: Digital

Frequency (MHz)	Channel Spacing	Max. Output Power (dBm)
(Data + voice):2W	© Martin ol Comment of Comments of Comment	100 100 100
400.025		32.18
416.025		32.11
432.025	40 51/11-	32.14
448.025	12.5KHz	32.10
464.025		32.13
479.975		32.19
(Data):2W		
400.025		31.99
416.025		31.95
432.025	40.51411-	31.92
448.025	12.5KHz	32.05
464.025		32.07
479.975		32.08
(Data + voice):0.5W	F Short Com	and the second
400.025		26.21
416.025		26.28
432.025	40 51/11-	26.25
448.025	12.5KHz	26.32
464.025		26.34
479.975		26.36
(Data):0.5W	-	
400.025		26.14
416.025		26.10
432.025	12.5KHz	26.13
448.025		26.11
464.025		26.16
479.975		26.18

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Face up SAR was performed with the device configured in the positions according to KDB 643646 and Body SAR was performed with the device configured with all accessories close to the Flat Phantom.

13.1.2. Operation Mode

- Set the EUT to maximum output power level and transmit on lower, middle and top channel with 100% duty cycle individually during SAR measurement.
- Per KDB 447498D01 v06 (Chapter 4.1 6) the number of channels to be assessed is 6.
- Per KDB 643646 D01, Passive body-worn and audio accessories generally do not apply to the head SAR of PTT radios. Head SAR is measured with the front surface of the radio positioned at 2.5 cm parallel to a flat phantom.

When testing antennas with the default battery:

- a. When the SAR≤ 3.5 W/kg, testing of all other required channels is not necessary for that antenna;
- b. When the SAR > 3.5 W/kg and ≤ 4.0 W/kg, testing of the required immediately channel(s) is not necessary; testing of the other required channels may still be required.
- c. When the SAR > 4.0 W/kg and ≤ 6.0 W/kg, SAR should be measured for that antenna on the all required channels:
- d. When the highest scaled SAR is ≤ 6.0 W/kg, PBA is not required
- Per KDB 643646 D01, Body SAR is measured with the radio placed in a body-worn accessory, positioned against a flat phantom, representative of the normal operating conditions expected by users and typically with a standard default audio accessory supplied with the radio.

When testing antennas with the default battery: the same test measurement with head part.

• The EUT only contains the Testing antenna, Standard battery and default body-worn accessory specified by customer. The earphone is only for testing

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13.1.3. Antenna Location: (back view)



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13.1.4. SAR Test Results Summary

UHF (High Power)

SAR MEASUREMEI	NT								
Depth of Liquid (cm)	Relative	Relative Humidity (%): 57.3							
Product: DMR RADIO)								
Test Mode: Hold to F	ace with 2.	5 cm sep	aration & b	ody back to	uch with cli	р			
Position	Freq. (MHz)	Separa tion (KHz)	Power Drift (±0.2dB)	SAR 1g with 100% duty Cycle (W/kg)	SAR 1g with 50% duty cycle (W/Kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
Analog				- ml	不枪	lisuce	El Compliano	® #	a station of G
Face Up	448.025	12.5	-0.49	1.02	0.51	33.01	32.39	0.659	8.0
Back Touch +Belt Clip + headset	448.025		-0.42	1.81	0.905	33.01	32.39	1.150	8.0
Digital	Alles	60				LIJE:		A STATE OF THE STA	
Face Up	448.025	12.5	-0.43	0.463	0.2315	33.01	32.10	0.315	8.0
Back Touch +Belt Clip + headset	448.025		-0.63	1.00	0.5	33.01	32.10	0.713	8.0

Note:

1. During the test, EUT power is 2 W with 100% duty cycle;

2. There is just default battery and antenna in this project;

3. Max_Scaled = SAR
$$_meas*10^{\frac{-\text{Drift}}{10}}*\frac{P_max}{P_int}*DC$$

P_ max = Maximum Power(W)

P_ int = Initial Power(W)

Drift = DASY drift results(dB)

SAR_ meas=Measured 1-g Avg.SAR or10-g Avg.SAR

DC = Transmission mode duty cycle in % where applicable 50% duty cycle is applied for PTT operation. For conservative results, the following are applied:

If P_ int > P_ max, then P_ max/P_ int =1. Drift = 1 for positive drift

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Product: DMR RADIO Test Mode: Body back touch with clip									
Test Mode: Body back touch with clip Position Frequency (MHz) Separati on (KHz) Separati on (KHz) Separati on (KHz) Power Drift (<±0.2dB) Frequency (M/kg) Conce SAR 1g with 100% duty cycle of signal: Analog Once SAR 1g with 50% duty cycle of signal: Analog	Repeated SA	\R							
Position Frequency (MHz) Separati on (KHz) Power Drift (<±0.2dB) Once SAR 1g with 100% duty cycle (W/kg) Once SAR 1g with 50% duty cycle (W/kg) W/kg Owl of SAR 1g with 50% duty cycle (W/kg) Once SAR 1g with 100% duty cycle duty cycle (W/kg) Owl of SAR 1g with 50% duty cycle (W/kg) Owl o	Product: DMF	RADIO							
Position Frequency (MHz) Separati on (KHz) Drift (<±0.2dB) with 100% duty cycle (W/kg) (W/kg) with 100% duty cycle duty cycle (W/kg) (W/kg) (W/kg) (W/kg)	Test Mode: B	ody back to	uch with cli	р					
	Position		on	Drift	with 100% duty cycle	1g with 50% duty cycle	with 100% duty cycle	1g with 50% duty cycle	Limit W/kg
Back Touch 448.025 12.5 -0.21 1.28 0.64 8.0	UHF: Type o	f signal: An	nalog		The Compliance	Manual Manage	The Compliance	® Mastation of Gib	
100 Mar 200 - 1200 Mar 200 - 1200 Mar 200 Mar	Back Touch	448.025	12.5	-0.21	1.28	0.64	o of Glob) - (8.0

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APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab Test date: Mar. 28,2019

System Check Head 450MHz DUT: Dipole 450 MHz Type: SID 450

Communication System: CW; Communication System Band: CW; Duty Cycle: 1:1;

Frequency: 450MHz; Medium parameters used: f = 450MHz; $\sigma = 0.87$ mho/m; $\epsilon r = 42.54$; $\rho = 1000$ kg/m³;

Phantom Type: Elliptical Phantom; Input Power=18dBm Ambient temperature ($^{\circ}$ C): 21.3, Liquid temperature ($^{\circ}$ C): 20.9

DASY Configuration:

Probe: EX3DV4 – SN3953; ConvF(11.28, 11.28, 11.28); Calibrated: June 26,2018;

• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0,

Electronics: DAE4 SN1398; Calibrated: Feb. 16,2019

Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108

DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check 450MHz Head/Area Scan (8x21x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.329 W/kg

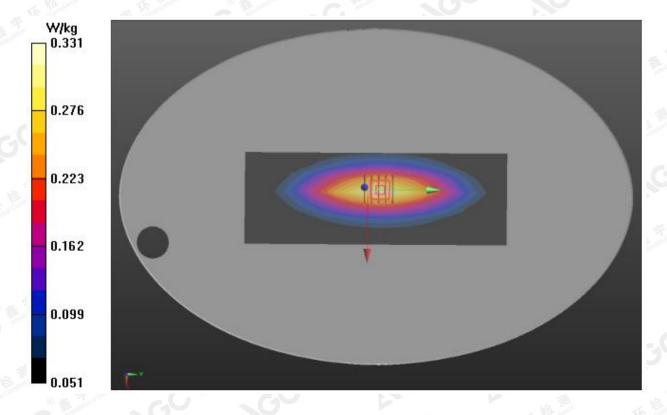
Configuration/System Check 450MHz Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 19.158 V/m: Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.446 W/kg

SAR(1 g) = 0.288 W/kg; SAR(10 g) = 0.193 W/kg Maximum value of SAR (measured) = 0.331 W/kg



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Test Laboratory: AGC Lab Test date: Mar. 28,2019

System Check Body 450MHz DUT: Dipole 450 MHz Type: SID 450

Communication System: CW; Communication System Band: CW; Duty Cycle: 1:1;

Frequency: 450MHz; Medium parameters used: f = 450MHz; $\sigma = 0.94$ mho/m; $\epsilon r = 55.62$; $\rho = 1000$ kg/m³

Phantom Type: Elliptical Phantom; Input Power=18dBm Ambient temperature ($^{\circ}$): 21.3, Liquid temperature ($^{\circ}$): 20.8

DASY Configuration:

Probe: EX3DV4 – SN3953; ConvF(11.51, 11.51, 11.51); Calibrated: June 26,2018;

• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0,

· Electronics: DAE4 SN1398; Calibrated: Feb. 16,2019

Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108

DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check 450MHz Body/Area Scan (8x21x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.330 W/kg

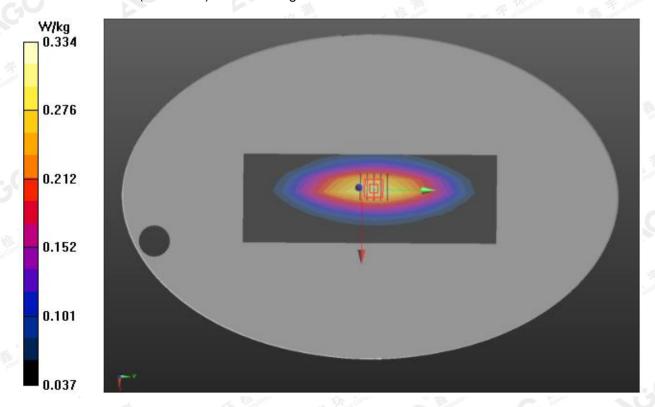
Configuration/System Check 450MHz Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 19.046 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.451 W/kg

SAR(1 g) = 0.294 W/kg; SAR(10 g) = 0.201 W/kg Maximum value of SAR (measured) = 0.334 W/kg



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APPENDIX B. SAR MEASUREMENT DATA

UHF- Analog

Test Laboratory: AGC Lab Date: Mar. 28,2019

450 Mid- face up 2.5cm (12.5 KHz) DUT: DMR RADIO; Type: AWR-D6000

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;

Frequency:448.025 MHz; Medium parameters used: f = 450 MHz; $\sigma = 0.86 \text{ mho/m}$; $\epsilon = 1000 \text{ kg/m}^3$

Phantom Type: Elliptical Phantom

Ambient temperature ($^{\circ}$ C): 21.3, Liquid temperature ($^{\circ}$ C): 20.9

DASY Configuration:

Probe: EX3DV4 – SN3953; ConvF(11.28, 11.28, 11.28); Calibrated: June 26,2018;

Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0,

· Electronics: DAE4 SN1398; Calibrated: Feb. 16,2019

• Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108

DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/A-12.5K-FACE UP/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.17 W/kg

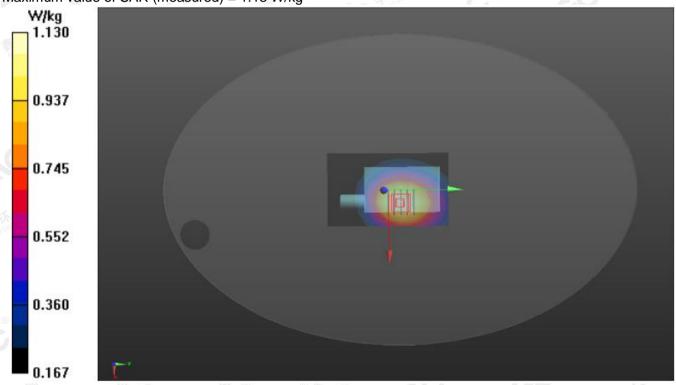
BODY /A-12.5K-FACE UP/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.552 V/m; Power Drift = -0.49 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.750 W/kg

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



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Date: Mar. 28,2019

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UHF- Analog

Test Laboratory: AGC Lab 450 Mid -Body -Touch (12.5 KHz)

DUT: DMR RADIO; Type: AWR-D6000

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;

Frequency:448.025 MHz; Medium parameters used: f = 450 MHz; $\sigma = 0.93$ mho/m; $\epsilon r = 56.42$; $\rho = 1000$ kg/m;

Phantom Type: Elliptical Phantom

Ambient temperature (°C): 21.3, Liquid temperature (°C): 20.8

DASY Configuration:

- Probe: EX3DV4 SN3953; ConvF(11.51, 11.51, 11.51); Calibrated: June 26,2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0,
- Electronics: DAE4 SN1398; Calibrated: Feb. 16,2019
- · Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY /A-12.5K-BACK/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

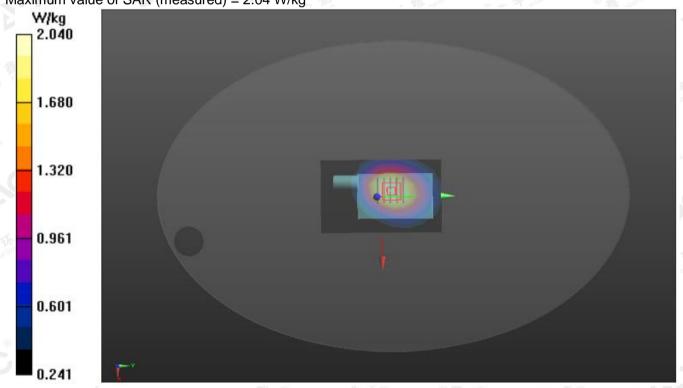
Maximum value of SAR (measured) = 2.06 W/kg

BODY /A-12.5K-BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 47.566 V/m; Power Drift = -0.42 dB

Peak SAR (extrapolated) = 2.45 W/kg

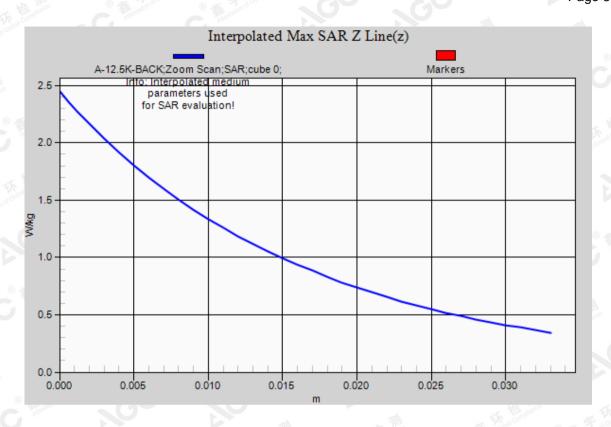
SAR(1 g) = 1.81 W/kg; SAR(10 g) = 1.3 W/kgMaximum value of SAR (measured) = 2.04 W/kg



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UHF- Digital

Test Laboratory: AGC Lab Date: Mar. 28,2019

450 Mid- face up 2.5cm (12.5 KHz) DUT: DMR RADIO; Type: AWR-D6000

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;

Frequency:448.025 MHz; Medium parameters used: f = 450 MHz; $\sigma = 0.86 mho/m$; $\epsilon r = 43.62$; $\rho = 1000 kg/m^3$

Phantom Type: Elliptical Phantom

Ambient temperature (°C): 21.3, Liquid temperature (°C): 20.9

DASY Configuration:

- Probe: EX3DV4 SN3953; ConvF(11.28, 11.28, 11.28); Calibrated: June 26,2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0,
- Electronics: DAE4 SN1398; Calibrated: Feb. 16,2019
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY /D-12.5K-FACE UP/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

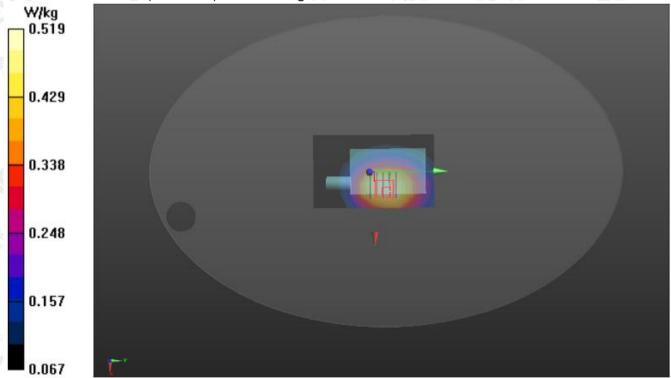
Maximum value of SAR (measured) = 0.538 W/kg

BODY /D-12.5K-FACE UP/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.875 V/m; Power Drift = -0.43 dB

Peak SAR (extrapolated) = 0.601 W/kg

SAR(1 g) = 0.463 W/kg; SAR(10 g) = 0.341 W/kg Maximum value of SAR (measured) = 0.519 W/kg



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UHF- Digital

Test Laboratory: AGC Lab Date: Mar. 28,2019

450 Mid -Body -Touch (12.5 KHz)
DUT: DMR RADIO; Type: AWR-D6000

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;

Frequency:448.025 MHz; Medium parameters used: f = 450 MHz; $\sigma = 0.93$ mho/m; $\epsilon r = 56.42$; $\rho = 1000$ kg/m;

Phantom Type: Elliptical Phantom

Ambient temperature ($^{\circ}$): 21.3, Liquid temperature ($^{\circ}$): 20.8

DASY Configuration:

- Probe: EX3DV4 SN3953; ConvF(11.51, 11.51, 11.51); Calibrated: June 26,2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0,
- Electronics: DAE4 SN1398; Calibrated: Feb. 16,2019
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY /D-12.5K-BACK/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

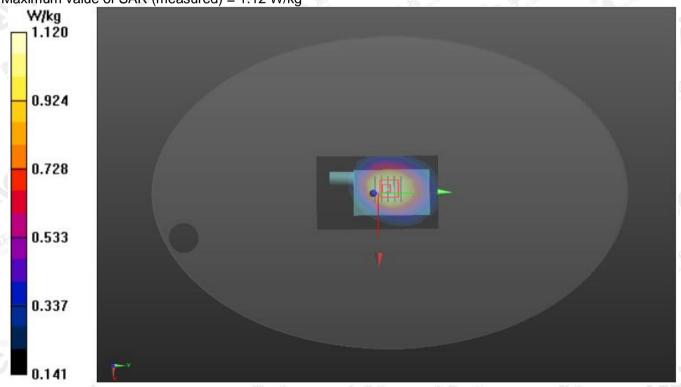
Maximum value of SAR (measured) = 1.20 W/kg

BODY /D-12.5K-BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 36.361 V/m; Power Drift = -0.63 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.730 W/kgMaximum value of SAR (measured) = 1.12 W/kg



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Repeated SAR

Test Laboratory: AGC Lab Date: Mar. 28,2019

450 Mid -Body -Touch (12.5 KHz)
DUT: DMR RADIO; Type: AWR-D6000

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;

Frequency:448.025 MHz; Medium parameters used: f = 450 MHz; $\sigma = 0.93$ mho/m; $\epsilon r = 56.42$; $\rho = 1000$ kg/m;

Phantom Type: Elliptical Phantom

Ambient temperature (°C): 21.3, Liquid temperature (°C): 20.8

DASY Configuration:

- Probe: EX3DV4 SN3953; ConvF(11.51, 11.51, 11.51); Calibrated: June 26,2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0,
- Electronics: DAE4 SN1398; Calibrated: Feb. 16,2019
- · Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

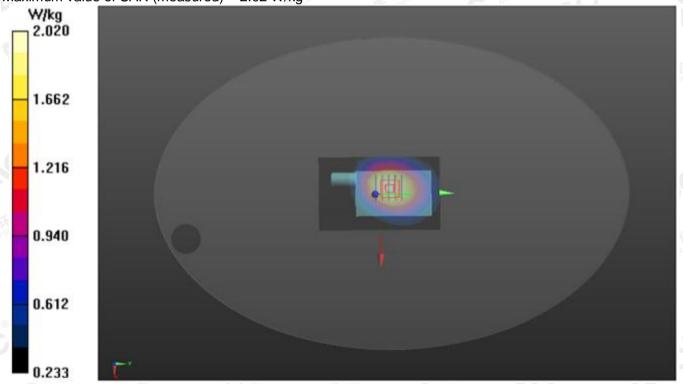
BODY/A-12.5K-BACK-REPEAT/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.98 W/kg

BODY/A-12.5K-BACK-REPEAT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 47.468 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 2.37W/kg

SAR(1 g) = 1.76W/kg; SAR(10 g) = 1.28W/kg Maximum value of SAR (measured) = 2.02 W/kg



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APPENDIX C. TEST SETUP PHOTOGRAPHS

Face Up with 2.5 cm Separation Distance.



Body Back Touch with all accessories



The thickness of EUT is 2.5 cm

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Note: The headset is just for testing. This tested and electrically similar headsets may be used.

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E-mail: agc@agc-cert.com

@ 400 089 2118

 $Add: 2/F.\ , Building\ 2, No.1-4, Chaxi\ Sanwei\ Technical\ Industrial\ Park, Gushu,\ Xixiang,\ Baoan\ District,\ Shenzhen,\ Guangdong\ Chinang Chinangdong\ Ch$



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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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