



Test report No.: 2460422R-SAUSV01S-A

SAR Test Report

Product Name	Gaming Headset
Trademark	ASUS
Model and /or type reference	A501
Applicant's name / address	PRIMAX Electronics Ltd No.669, Ruey Kuang Road, Neihu Taipei, Taiwan, R.O.C.
Manufacturer's name	PRIMAX Electronics Ltd
FCC ID	EMJ-A501
Applicable Standard	IEEE 1528-2013 KDB 447498 D01 v06 KDB 865664 D01 v01r04
Test Result	Max. SAR Measurement (1g) 2.4 GHz: 0.074 W/kg
Verdict Summary	IN COMPLIANCE
Documented By (Senior Project Specialist / Genie Chang)	Grente Chang
Tested By (Senior Engineer / Luke Cheng)	Grente Chang Luke cheng Lan Vin
Approved By (Assistant Manager / San Lin)	San Vin
Date of Receipt	2024/06/14
Date of Issue	2024/08/28
Report Version	V1.0



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DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

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- 5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Report No.: 2460422R-SAUSV01S-A



Revision History

Report No.	Version	Description	Issued Date
2460422R-SAUSV01S-A	V1.0	Initial issue of report.	2024/08/28



1. General Information

1.1 EUT Description

Product Name	Gaming Headset
Trademark	ASUS
Model and /or type	A501
reference	
FCC ID	EMJ-A501
Frequency Range	2.4GHz wireless: 2402-2480MHz
	BT: 2402-2480MHz
Type of Modulation	GFSK(1Mbps) / π /4DQPSK(2Mbps) / 8DPSK(3Mbps)
Antenna Type	PIFA
Device Category	Portable
RF Exposure	Uncontrolled
Environment	

1.2 Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	PRIMAX	651000053010	PIFA	3.13 dBi for 2400 MHz

Note: The above EUT information by manufacturer.



1.3 Test Environment

Ambient conditions in the laboratory:

Test Date: 2024/7/22

Items	Required	Actual		
Temperature (°C)	18-25	23 ± 2		
Humidity (%RH)	30-70	50 ± 20		

USA	FCC Registration Number: TW0033					
Canada	CAB Identifier Number: TW3023 / Company Number: 26930					
Site Description	Accredited by TAF					
	Accredited Number: 3023					
Test Laboratory	DEKRA Testing and Certification Co., Ltd.					
	Linkou Laboratory					
Address	No.5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan, R.O.C					
Performed Location	No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.					
Phone Number	+886-3-275-7255					
Fax Number	+886-3-327-8031					



1.4 Measurement procedures

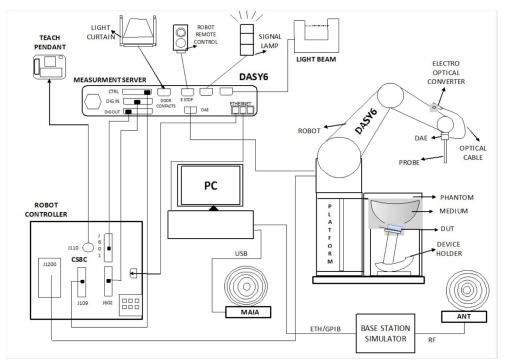
IEEE 1528-2013 47CFR § 2.1093 KDB 248227 D01 v02r02 KDB 447498 D01 v06 KDB 865664 D01 v01r04



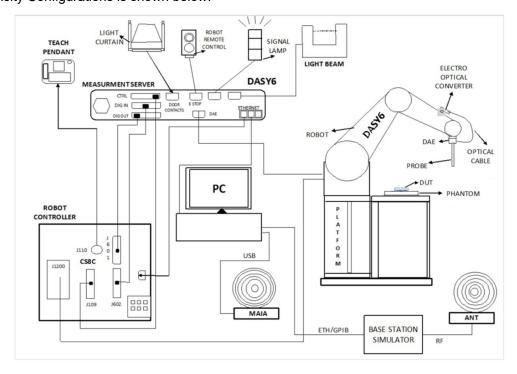
2. SAR Measurement System

2.1 DASY System Description

SAR Configurations is shown below:



Power Density Configurations is shown below:





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

- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- 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.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7/8/10 and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- > The phantom, the device holder and other accessories according to the targeted measurement.



2.2 Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for utilize a 10mm² step integral, with 1mm interpolation used to locate the peak SAR area used for zoom scan assessments.

When an Area Scan has measured all reachable points, it computes the field maxima found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing.

2.2.1 Zoom Scan (Cube Scan Averaging)

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1 g cube is 10mm, with the side length of the 10 g cube 21,5mm.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications utilize a physical step of 5x5x7 (8mmx8mmx5mm) providing a volume of 32mm in the X & Y axis, and 30mm in the Z axis.

2.2.2 SAR measurement drifts

Before an area scan and after the zoom scan, single point SAR measurements are performed at defined locations to estimate the SAR measurement drift due to device output power variations. If a device is known to drift randomly, additional single point drift reference measurements should be performed at regular intervals throughout the area and zoom scan test durations. The SAR drift shall be kept within \pm 5%, whether there are substantial drifts or not. The field difference will be calculated in dB units in the DASY software.



2.2.3 Uncertainty of Inter-/Extrapolation and Averaging

In order to evaluate the uncertainty of the interpolation, extrapolation and averaged SAR calculation algorithms of the Postprocessor, DASY allows the generation of measurement grids which are artificially predefined by analytically based test functions. Therefore, the grids of area scans and zoom scans can be filled with uncertainty test data, according to the SAR benchmark functions.

2.3 DASY 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 under ISO 17025. The calibration data are in Appendix D.

Isotropic E-Field Probe Specification

Model	Ex3DV4						
Construction	Symmetrical design with triangular core Built-in shielding against static charges	Symmetrical design with triangular core Built-in shielding against static charges					
	PEEK enclosure material (resistant to organic solvents, e.g., DGBE)						
Frequency	4 MHz – 10 GHz						
	Linearity: ± 0.2 dB (30 MHz to 10 GHz)						
Directivity	± 0.1 dB in TSL (rotation around probe axis)						
	± 0.3 dB in TSL (rotation normal to probe axis)						
Dynamic Range	10 μW/g to 100 mW/g						
	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)						
Dimensions	Overall length: 337 mm (Tip: 20 mm)						
	Tip diameter: 2.5 mm (Body: 12 mm)						
	Typical distance from probe tip to dipole centers: 1 mm						
Application	High precision dosimetric measurements in any exposure scenario (e.g., very stro	ong					
	gradient fields). Only probe which enables compliance testing for frequencies up to 6						
	GHz with precision of better 30%.						

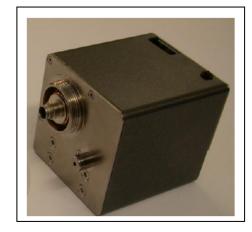


2.4 DATA Acquisition Electronics (DAE) and Measurement Server

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16-bit AD-converter and a command decoder and control logic unit.

Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE4 is 200M Ohm; the inputs are symmetrical and floating. Common mode rejection is above 80dB.



2.5 Robot

The DASY system uses the high precision robots TX90 XL type out of the newer series from Stäubli SA (France). For the 6-axis controller DASY system, the CS8C robot controller version from Stäubli 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





2.6 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 $\epsilon r = 3$ 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.







2.7 Phantom

2.7.1 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 device holder positions are adjusted to the standard measurement positions in the three sections. A 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.



3. Tissue Simulating Liquid

3.1 The composition of the tissue simulating liquid

Description: Aqueous solution with surfactants and inhibitors

Declarable, or hazardous components:

CAS: 107-21-1	Ethanediol	< 5.2%
EINECS: 203-473-3	STOT RE 2, H373;	
Reg.nr.: 01-2119456816-28-0000	Acute Tox. 4, H302	
CAS: 68608-26-4	Sodium petroleum sulfonate	< 2.9%
EINECS: 271-781-5	Eye Irrit. 2, H319	
Reg.nr.: 01-2119527859-22-0000		
CAS: 107-41-5	Hexylene Glycol / 2-Methyl-pentane-2,4-diol	< 2.9%
EINECS: 203-489-0	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
Reg.nr.: 01-2119539582-35-0000	-	
CAS: 68920-66-1	Alkoxylated alcohol, > C ₁₆	< 2.0%
NLP: 500-236-9	Aquatic Chronic 2, H411;	
Reg.nr.: 01-2119489407-26-0000	Skin Irrit. 2, H315; Eye Irrit. 2, H319	

3.2 Tissue Calibration Result

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

	Tissue	Fraguency	Relative Permittivity (cr)			C	Tiagua Taman			
Date		' '	Manager	Delta			Target	Delta	Tissue Temp.	
	Туре	(MHz)	Measured	Target	(%)	Measured	raiget	(%)	(°C)	
	2024/7/22		2450	39.80	39.20	1.53	1.78	1.80	-1.11	
0004/7/00		2402	40.00	39.30	1.78	1.72	1.76	-2.27	22.2	
2024/7/22	Head	2441	39.90	39.22	1.73	1.76	1.79	-1.68	22.2	
		2480	39.70	39.16	1.38	1.81	1.83	-1.09		



3.3 Tissue Dielectric Parameters for Phantoms

The head tissue dielectric parameters recommended by the IEC/IEEE 62209-1528 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 tissue parameters that have not been specified are interpolated according to the head parameters specified in IEC/IEEE 62209-1528.

Target Frequency	Н	ead
(MHz)	Er	σ (S/m)
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1640	40.2	1.31
1750	40.1	1.37
1800 – 2000	40.0	1.40
2450	39.2	1.80
3000	38.5	2.40
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27
6000	35.1	5.48
6500	34.5	6.07
7000	33.9	6.65
7500	33.3	7.24



4. Measurement Procedure

4.1 SAR System Check

4.1.1 Dipoles



The SAR dipoles are optimized symmetrical dipole with $\lambda/4$ balun matched to a Flat phantom section filled with tissue simulating liquids. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC signals. They are available for the variety of frequencies between 300MHz and 10 GHz. The provided tripod is used to hold the dipole below the phantom. As the distance between the dipole center and the TSL is critical, a spacer is placed between the dipole and the phantom. The spacing distance is frequency dependent.

4.1.2 SAR System Check Result

- 1. Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %.
- 2. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Date	(MHz)	Input	Measured	Targeted	Normalized	Delta 1g	Measured	Targeted	Normalized	Delta 10g	Tissue
		Power	1g SAR	1g SAR	1g SAR	ŭ	10g SAR	10g SAR	10g SAR	(%)	Temp.
		(mW)	(W/kg)	(W/kg)	(W/kg)	(%)	(W/kg)	(W/kg)	(W/kg)	(70)	(°C)
2024/7/22	2450	250	13.60	52.40	54.4	3.82	6.44	24.60	25.76	4.72	22.2



4.2 SAR Measurement Procedure

The Dasy calculates SAR using the following equation,

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

Where:

σ: represents the simulated tissue conductivity

ρ: represents the tissue density

E:RMS electric field strength (V/m)

The SAR / APD measurements for the EUT should be performed on the channel that produces the highest rated output power of each transmitting antenna.

Pre-scans are made on the device to establish the location for the transmitting antenna, using a large area scan in either air or tissue simulation fluid.

The EUT is placed against the Universal Phantom where the maximum area scan dimensions are larger than the physical size of the resonating antenna. When the scan size is not large enough to cover the peak SAR / APD distribution, it is modified by either extending the area scan size in both the X and Y directions, or the device is shifted within the predefined area.

The area scan is then run to establish the peak SAR / APD location (interpolated resolution set at 1mm²) which is then used to orient the center of the zoom scan. The zoom scan is then executed and the 1g and 10g averages are derived from the zoom scan volume (interpolated resolution set at 1mm³).



5. RF Exposure Limits

SAR assessments have been made in line with the requirements of IEEE-1528, RSS-102 Issue 6, and comply with ANSI/IEEE C95.1-1992 "Uncontrolled Environments" limits. These limits apply to a location which is deemed as "Uncontrolled Environment" which can be described as a situation where the general public may be exposed to an RF source with no prior knowledge or control over their exposure.

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

Type Exposure	Uncontrolled Environment Limit
Spatial Peak SAR (1g cube tissue for brain or body)	1.60 W/kg
Spatial Average SAR (whole body)	0.08 W/kg
Spatial Peak SAR (10g for hands, feet, ankles and wrist)	4.00 W/kg



6. Test Equipment List

Instrument	Manufacturer	Model No.	Serial No.	Last Calibration	Next Calibration
Reference Dipole 2450MHz	Speag	D2450V2	930	2022/11/21	2025/11/20
Device Holder	Speag	N/A	N/A	N/A	N/A
Data Acquisition Electronic	Speag	DAE4	1791	2024/04/22	2025/04/21
E-Field Probe	Speag	EX3DV4	7784	2024/04/22	2025/04/21
SAR Software	Speag	DASY8	V16.4.0.5005	N/A	N/A
Power Amplifier	Mini-Circuit	ZVE-8G+	447202211	N/A	N/A
Directional Coupler	Agilent	87300C	MY44300353	N/A	N/A ¹
Attenuator	Woken	WATT-218FS-10	N/A	N/A	N/A ¹
Attenuator	Mini-Circuit	BW-S20W2+	N/A	N/A	N/A ¹
Vector Network Analyzer	Keysight	E5071C	MY46106342	2023/10/27	2024/10/26
Signal Generator	Anritsu	MG3694A	041902	2023/09/07	2024/09/06
Power Meter	Anritsu	ML2487A	6K00001447	2023/11/06	2024/11/05
Power Sensor	Anritsu	MA2411B	1339194	2023/11/06	2024/11/05

Note: 1. System Check, the path loss measured by the network analyzer, includes the signal generator, amplifier, cable, attenuator and directional coupler.



Note:

Per KDB 865664 D01 requirements for dipole calibration, the following are recommended FCC procedures for SAR dipole calibration.

- 1. After a dipole is damaged and properly repaired to meet required specifications.
- 2. When the measured SAR deviates from the calibrated SAR value by more than 10% due to changes in physical, mechanical, electrical or other relevant dipole conditions.
- 3. When the most recent return-loss, measured at least annually, deviates by more than 20% from the previous measurement (i.e. 0.2 of the dB value) or not meeting the required -20 dB return-loss specification.

D2450V2-930

	Frequency	Tissue	Return loss	Limit	Verified Date
Calibration	2450 MHz	Head	-26.8dB	Within 20%	2022/11/21
Measurement	2450 MHz	Head	-26.79dB	VVIIIIII 20%	2023/11/16

4. When the most recent measurement of the real or imaginary parts of the impedance, measured at least annually, deviates by more than 5 Ω from the previous measurement.

D2450V2-930

	Frequency	Tissue	Impedance	Limit	Verified Date
Calibration	2450 MHz	Head	53.7	Within 5Ω	2022/11/21
Measurement	2450 MHz	Head	53.82	VVIUIII 322	2023/11/16

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7. Measurement Uncertainty

Measurement uncertainty for 300 MHz to 3 GHz							
Error Description	Uncert.	Prob.	Div.	(Ci)	(Ci)	Std. Unc.	Std. Unc.
	value	Dist.		1g	10g	(1g)	(10g)
Measurement System Err	rors						l
Probe Calibration	±12.0%	N	2	1	1	±6.0%	±6.0%
Probe Calibration Drift	±1.7%	R	1.732	1	1	±1.0%	±1.0%
Probe Linearity	±4.7%	R	1.732	1	1	±2.7%	±2.7%
Broadband Signal	±2.8%	R	1.732	1	1	±1.6%	±1.6%
Probe Isotropy	±7.6%	R	1.732	1	1	±4.4%	±4.4%
Other Probe+Electronic	±0.8%	N	1	1	1	±0.8%	±0.8%
RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Probe Positioning	±0.006 mm	N	1	0.14	0.14	±0.1%	±0.1%
Data Processing	±1.2%	N	1	1	1	±1.2%	±1.2%
Phantom and Device Erro	ors		•	•	1		
Conductivity (meas.)	±2.5%	N	1	0.78	0.71	±2.0%	±1.8%
Conductivity (temp.)	±3.3%	R	1.732	0.78	0.71	±1.5%	±1.4%
Phantom Permittivity	±14.0%	R	1.732	0	0	±0.0%	±0.0%
Distance DUT - TSL	±2.0%	N	1	2	2	±4.0%	±4.0%
Device Positioning	±1.0%	N	1	1	1	±1.0%	±1.0%
Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%
DUT Modulation	±2.4%	R	1.732	1	1	±1.4%	±1.4%
Time-average SAR	±1.7%	R	1.732	1	1	±1.0%	±1.0%
DUT drift	±2.5%	N	1	1	1	±2.5%	±2.5%
Val Antenna Unc.	±0.0%	N	1	1	1	±0.0%	±0.0%
Unc. Input Power	±0.0%	N	1	1	1	±0.0%	±0.0%
Correction to the SAR res	sults		•				·
Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
SAR scaling	±0.0%	R	1.732	1	1	±0.0%	±0.0%
Combined Uncertainty	<u>.</u>		•			±11.0%	±10.9%
Expanded Uncertainty						±21.9%	±21.7%

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Mea	surement u	ncertai	nty fo	r 3 G	Hz to	6 GHz	
Error Description	Uncert.	Prob.	Div.	(Ci)	(Ci)	Std. Unc.	Std. Unc.
	value	Dist.		1g	10g	(1g)	(10g)
Measurement System Err	rors	1		ı	I	.	-
Probe Calibration	±14.0%	N	2	1	1	±7.0%	±7.0%
Probe Calibration Drift	±1.7%	R	1.732	1	1	±1.0%	±1.0%
Probe Linearity	±4.7%	R	1.732	1	1	±2.7%	±2.7%
Broadband Signal	±2.6%	R	1.732	1	1	±1.5%	±1.5%
Probe Isotropy	±7.6%	R	1.732	1	1	±4.4%	±4.4%
Other Probe+Electronic	±1.2%	N	1	1	1	±1.2%	±1.2%
RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Probe Positioning	±0.005 mm	N	1	0.29	0.29	±0.2%	±0.2%
Data Processing	±2.3%	N	1	1	1	±2.3%	±2.3%
Phantom and Device Erro	ors	•	•	•	1		
Conductivity (meas.)	±2.5%	N	1	0.78	0.71	±2.0%	±1.8%
Conductivity (temp.)	±3.4%	R	1.732	0.78	0.71	±1.5%	±1.4%
Phantom Permittivity	±14.0%	R	1.732	0.25	0.25	±2.0%	±2.0%
Distance DUT - TSL	±2.0%	N	1	2	2	±4.0%	±4.0%
Device Positioning	±1.0%	N	1	1	1	±1.0%	±1.0%
Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%
DUT Modulation	±2.4%	R	1.732	1	1	±1.4%	±1.4%
Time-average SAR	±1.7%	R	1.732	1	1	±1.0%	±1.0%
DUT drift	±2.5%	N	1	1	1	±2.5%	±2.5%
Val Antenna Unc.	±0.0%	N	1	1	1	±0.0%	±0.0%
Unc. Input Power	±0.0%	N	1	1	1	±0.0%	±0.0%
Correction to the SAR res	sults	-	•				
Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
SAR scaling	±0.0%	R	1.732	1	1	±0.0%	±0.0%
Combined Uncertainty						±11.9%	±11.8%
Expanded Uncertainty						±23.8%	±23.6%

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8. Conducted Power Measurement (Including tolerance allowed for production unit)

2.4GHz wireless							
		SISO-Main					
Frequency	Mode	СН	Avg. Power	Tune-Up Power			
	FHSS	0	6.79	7			
		39	6.64	7			
	(1Mbps)	78	6.77	7			
	FHSS	0	6.67	7			
RF 2.4GHz		39	6.74	7			
	(3Mbps)	78	6.73	7			
	OFOK	0	6.61	7			
	GFSK (1Mbps)	19	6.59	7			
	(1Mbps)	39	6.67	7			

ВТ							
		SISO-Main					
Frequency	Mode	CH	Avg.	Tune-Up			
		CH	Power	Power			
		0	6.78	7			
	BR	39	6.64	7			
		78	6.79	7			
	EDR	0	6.70	7			
BT 2.4GHz		39	6.78	7			
		78	6.74	7			
		0	6.64	7			
	BLE	19	6.55	7			
		39	6.64	7			

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9. Test Results

9.1 Test Results Summary

SAR MEASURE	MENT									
Ambient Temper	Ambient Temperature (°C): 23.2 ±2					Relative Humidity (%):52 %				
Liquid Temperature (°C): 22.2 ±2				Depth of Liquid (cr	n): >15					
Test Dist.		Frequ	uency		ted Power	SA (W/	AR (kg)			
Position	(mm)	Ch. MHz		Meas.	Tune-Up Limit	Meas-1g	Scaled-1g	Plot No.		
Test Mode: 2.40	Wireless-FHS	SS-1M								
Front	0	0	2402	6.79	7	0.065	0.068			
Front	0	39	2441	6.64	7	0.066	0.072			
Front	0	78	2480	6.77	7	0.070	0.074	6		
Back	0	0	2402	6.79	7	0.040	0.042			
Test Mode: 2.40	Wireless-FHS	SS-1M_Mic	rophone			•				
Front	0	78	2480	6.77	7	0.064	0.067			
Test Mode: BT-1	IM					•				
Front	0	0	2402	6.78	7	0.064	0.067			
Front	0	39	2441	6.64	7	0.067	0.073			
Front	0	78	2480	6.79	7	0.070	0.073	3		
Back	0	78	2480	6.79	7	0.041	0.043			
Test Mode: BT-1	IM_Microphone	9	•		•	•	•			
Front	0	78	2480	6.79	7	0.065	0.068			

Note: Duty Cycle: 100%

^{1.} Since BT and BLE have the same frequency band, modulation, target power and antenna, BT was chosen for testing.



Appendix

Appendix A. System Check Data

Appendix B. Highest measurement Data

Appendix C. Test Setup Photographs

Appendix D. Probe Calibration Data

Appendix E. Dipole Calibration Data

Appendix F. Product Photos-Please refer to the file: 2460422R-Product Photos