

FCC AND ISED SAR TEST REPORT

Applicant	:	Dongguan Siyoto Electronics Co.,Ltd.	
Address of Applicant	:	No.10, North 7th Street, Qiaotou Qiaodong Road, Qiaotou Town, Dongguan City, Guangdong Province.	
Manufacturer	:	Dongguan Siyoto Electronics Co.,Ltd.	
Address of Manufacturer	:	No.10, North 7th Street, Qiaotou Qiaodong Road, Qiaotou Town, Dongguan City, Guangdong Province.	
Equipment under Test	:	WIRELESS HEADPHONES	
Model No.	•	HA-EC75T	
FCC ID		2ADZH-EC75T	
IC	:	23340-EC75T	
Test Standard(s)	Test Standard Used: IEEE Std. 1528-2013; IEC/IEEE 62209-1528:202 FCC Rules and Regulations: 47 CFR § 2.1093 ISED Rules and Regulations: RSS-102 Issue 6 2023 Test Procedure Used: KDB447498 D04 v01, KDB 865664 D01 v01r04 865664 D02 v01r02, RSS-102.SAR.MEAS Issue 6 Dec. 2023		
Report No.	:	DDT-RE24103004-1E08	
Issue Date	:	2024/12/24	
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd.	
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Table of Contents

1.	General test information	6
1.1.	Description of EUT	6
1.2.	Accessories of EUT	8
1.3.	Assistant equipment used for test	8
1.4.	Block diagram of EUT configuration for test	9
1.5.	Test environment conditions	
1.6.	Test laboratory	10
2.	Summary of test results	
2.1.	Report SAR results	
2.2.	RF exposure limits	11
3.	SAR measurements system configuration	12
3.1.	The SAR measurement system	12
3.2.	Isotropic E-field probe EX3DV4	13
3.3.	SAM twin phantom	13
3.4.	ELI phantom	14
3.5.	Data acquisition electronics (DAE)	14
3.6.	Device holder for transmitters	15
4.	Measurement procedure	16
4.1.	Scanning procedure	16
5.	Description of test position	20
5.1.	Body-worn accessory configurations	20
5.2.	Extremity exposure configurations	21
5.3.	Head exposure configurations	
6.	RF exposure conditions	22
6.1.	EUT Test sides	22
6.2.	Standalone SAR test exclusion considerations	22
7.	SAR system verification procedure	23
7.1.	Tissue simulate liquid	23
7.1.1.	Target dielectric properties of head tissue-equivalent material	23
7.1.2.	Measurement for tissue simulate liquid	23
7.2.	SAR system validation	24
7.2.1.	Justification for extended SAR dipole calibrations	25
7.2.2.	Validation test setup photograph	26
7.2.3.	Summary system validation results	27
7.2.4.	Detailed system validation results	27
8.	Equipment list	28

9.	Measurement uncertainty	29
10.	Test results and measurement data	30
10.1.	RF conducted power	30
10.2.	Measurement of head SAR data	32
Annendiy		33

Test Report Declare

Report No.: DDT-RE24103004-1E08

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Equipment under Test	:	WIRELESS HEADPHONES
Model No.	Ŀ	HA-EC75T

Test Standard Used:

IEEE Std. 1528-2013; IEC/IEEE 62209-1528:2020

FCC Rules and Regulations: 47 CFR § 2.1093

ISED Rules and Regulations: RSS-102 Issue 6, Dec. 2023

Test Procedure Used:

KDB447498 D04 v01, KDB 865664 D01 v01r04, KDB 865664 D02 v01r02, RSS-102.SAR.MEAS

Issue 1, Dec. 2023

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC and ISED standards.

Report No.:	DDT-RE24103004-1E08		
Date of Receipt: 2	2024/11/28	Date of Test:	2024/11/28 ~ 2024/12/24
Prep	ared By:	-01	Approved By:
Johnso	n Huang		Damon Mu
Johnson H	uang/Fngineer	Da	amon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 4 of 33

Revision History

Report No.: DDT-RE24103004-1E08

Rev.	Revisions	Issue Date	Revised By
	Initial issue	2024/12/24	(a)

1. General test information

1.1. Description of EUT

EUT Name	:	WIRELESS HEADPHONES
Model Number	:	HA-EC75T
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	CHARGING CASE: DC 5V from USB cable EARBUDS: DC 3.7V from external charging case CHARGING CASE: DC 3.7V Lithium-ion built-in battery EARBUDS: DC 3.85V Lithium-ion built-in battery
Radio Specification	:	Bluetooth BR/EDR/LE
Operation Frequency	:	2402 MHz-2480 MHz
Modulation	:	Bluetooth BR/EDR/LE: GFSK, π/4-DQPSK, 8DPSK Bluetooth LE: GFSK
Antenna Type	:	FPC ®
Left side Max Antenna Gain(dBi)	:	2.22
Right side max antenna Gain(dBi)	:	0.97

Report No.: DDT-RE24103004-1E08

Note: EUT is the abbreviation of equipment under test.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	27	2429	54	2456
1	2403	28	2430	55	2457
2	2404	29	2431	56	2458
3	2405	30	2432	57	2459
4	2406	31	2433	58	2460
5	2407	32	2434	59	2461
® 6	2408	33	2435	60	2462
7	2409	34	2436	61	2463
8	2410	35	2437	62	2464
9	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11®	2413	38	2440	® 65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	© 2418	43	2445	70	2472
17	2419	44	2446	71	2473

18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
<u>26</u>	2428	_® 53	2455		3

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
_1 ®	2404	15	2432	® 29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	© 2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	*	
13	2428	27	2456		y-
uetooth LE 2	Mbps Channel inf	ormation			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
48	2410	18	2438	® 32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478

	l - al				
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2/128	27	2456		

The channels denoted with the grey background are excluded, because they are primary advertising channel only for the Bluetooth LE 1Mbps according to the Bluetooth Core Specification.

Mode	Setting Tx Power	Channel	Frequency (MHz)
GFSK hopping on Tx mode	10	CH0 to CH78	2402 to 248
π /4-DQPSK hopping on Tx mode	10	CH0 to CH78	2402 to 248
8DPSK hopping on Tx mode	10	CH0 to CH78	2402 to 248
	10	CH0	2402
GFSK hopping off Tx mode	10	CH39	2441
	10	CH78	2480
	10	CH0	2402
π /4-DQPSK hopping off Tx mode	10	CH39	2441
	10	CH78	2480
	10	CH0	2402
8DPSK hopping off Tx mode	10	CH39	2441
	10	CH78	2480

Bluetooth LE Tested mod	<u>®</u>		
Mode	Setting Tx Power	Channel	Frequency (MHz)
GFSK 1M	Default	CH0	2402
	Default	CH19	2440
	Default	CH39	2480
GFSK 2M	Default	CH1	2404
	Default	CH19	2440
	Default	CH38	2478

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
USB cable	N/A	N/A	Length: 0.2m, unshielded

1.3. Assistant equipment used for test

Accessories	Manufacturer	Model number	Description
N/A	N/A	N/A	N/A

TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 8 of 33

1.4. Block diagram of EUT configuration for test

EUT

Test software: FCC_assist_1.0.2.2.exe

1.5. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Condition	Normal Condition	Extreme Condition
Relative Humidity	20-75%	N/A
Temperature(°C)	18℃-25℃	N/A
Voltage(V)	3.85V	N/A

Report No.: DDT-RE24103004-1E08

1.6. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add: Unit 2, Building 1, No.17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. Summary of test results

2.1. Report SAR results

L side:

Band	Test Position	Max. Reported SAR (W/kg)	SAR limit (W/kg)	Verdict
Bluetooth	Head(1-g) 0mm	0.117	1.6	Pass

Report No.: DDT-RE24103004-1E08

R side:

Band	Test Position	Max. Reported SAR (W/kg)	SAR limit (W/kg)	Verdict
Bluetooth	Head(1-g) 0mm	0.114	1.6	Pass

EUT is compliant with Uncontrolled Environment General Population. It has the same physical, mechanical, and thermal characteristics and operational tolerances expected for production units

2.2. RF exposure limits

Human Exposure Uncontrolled Environment General Population		Controlled Environment Occupational
Spatial Average SAR** (Whole Body)	0.08 W/kg	0.40 W/kg
Spatial Peak SAR* (Brain*Trunk)	1.60 W/kg	8.00 W/kg
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 W/kg	20.00 W/kg

Notes:

- 1) The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time
- 2) The Spatial Average value of the SAR averaged over the whole body.
- 3) The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
- 4) Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.
- 5) Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)

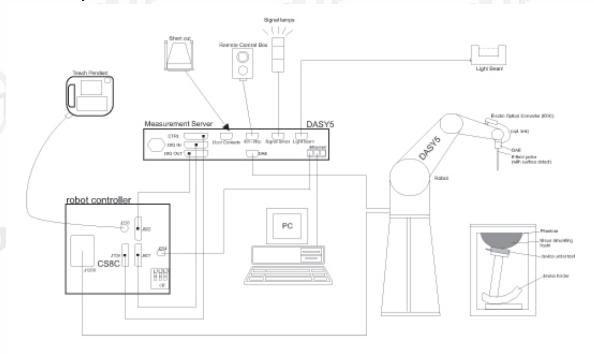
TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 11 of 33

3. SAR measurements system configuration

3.1. The SAR measurement system

This SAR Measurement System uses a computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

Report No.: DDT-RE24103004-1E08



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

- A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).
- An isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- 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 between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY52 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning

TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 12 of 33

lamps, etc.

- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

3.2. Isotropic E-field probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)		
Calibration	ISO/IEC 17025 calibration service available.		
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 Db (30 MHz to 6 GHz)		
Directivity	± 0.3 Db in TSL (rotation around probe axis) ± 0.5 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 strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.		
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI		

3.3. SAM twin phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	13esolut. 25 liters
Wooden Support	SPEAG standard phantom table



Report No.: DDT-RE24103004-1E08

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the

TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 13 of 33

phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.

3.4. ELI phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	14esolut. 30 liters	
Wooden Support	SPEAG standard phantom table	



Report No.: DDT-RE24103004-1E08

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.

3.5. Data acquisition electronics (DAE)

Model	DAE4		
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.		
Measurement Range	-100 to +300 mv (16 bit resolution and two range settings: mV,400 mV)		
Input Offset Voltage	< 5mv (with auto zero)		
Input Bias Current	< 50 fA		
Dimensions	60 x 60 x 68 mm		



3.6. Device holder for transmitters



Report No.: DDT-RE24103004-1E08

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 centres for both scales are the ear reference point (ERP). 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.

TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 15 of 33

4. Measurement procedure

4.1. Scanning procedure

Step 1: Power reference measurement

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Report No.: DDT-RE24103004-1E08

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 30mm*30mm*30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points (≤2GHz) and 7x7x7 points (≥2GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

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

TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 16 of 33

			≤3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 mm ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \text{ mm} \pm 0.5 \text{ mm}$	
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	$3-4~GHz: \leq 12~mm$ $4-6~GHz: \leq 10~mm$
Maximum area scan spatial resolution: $\Delta x_{Area},\Delta y_{Area}$		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.		
Maximum zoom scan	spatial res	olution: Δx _{Zoom} , Δy _{Zoom}	≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 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 1st two p	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	$3-4 \text{ GHz: } \le 3 \text{ mm}$ $4-5 \text{ GHz: } \le 2.5 \text{ mm}$ $5-6 \text{ GHz: } \le 2 \text{ mm}$
	grid $\Delta z_{Zoom}(n>1)$: between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoc}$	om(n-1) mm

3-4 GHz: ≥ 28 mm

4-5 GHz: ≥ 25 mm

 $5-6~GHz; \geq 22~mm$

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.

 \geq 30 mm

Step 4: Power reference measurement (drift)

x, y, z

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. $\pm 5 \%$

Step 5: Z-Scan (FCC only)

Minimum zoom

scan volume

The Z scan measures points along a vertical straight line. The line runs along the Z-axis of a onedimensional grid. In order to get a reasonable extrapolation, the extrapolated distance should not be greater than the step size in Z-direction.

TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 17 of 33

^{*} 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 Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

For RSS-102.SAR.MEAS, SAR evaluations in the range of 4 MHz to 6 GHz shall be made in accordance with the latest version of IEC/IEEE 62209-1528 with the deviations outlined below:

Report No.: DDT-RE24103004-1E08

- 1)Clause 7.6 of IEC/IEEE 62209-1528 is not applicable for device certification. Instead the provisions of this RSS shall be followed.
- 2) The SAR assessment procedures for Long-Term Evolution (LTE)devices provided in Federal Communications Commission (FCC)knowledge database (KDB) 941225 D05 take precedence over clause 7.9.3.6 of IEC/IEEE 62209-1528. ISED accepts the fast SAR testing procedures set forth in clause 7.9.2 of IEC/IEEE 62209-1528

According to the reference distribution functions specified in IEC/IEEE 62209-1528:2020

Parameter	DUT transmit frequency being tested					
Parameter	∫ ≤ 3 GHz	3 GHz < f ≤ 10 GHz				
Maximum distance between the measured points (geometric centre of the sensors) and the inner phantom surface ($z_{\rm M1}$ in Figure 20 in mm)	5 ± 1	$\delta \ln(2)/2 \pm 0.5$ a				
Maximum spacing between adjacent measured points in mm (see O.8.3.1) ^b	20, or half of the corresponding zoom scan length, whichever is smaller	60/f, or half of the corresponding zoom scan length, whichever is smaller				
Maximum angle between the probe axis and the phantom surface normal (α in Figure 20) ^c	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)				
Tolerance in the probe angle	1°	1°				

- $^{\mathrm{a}}$ δ is the penetration depth for a plane-wave incident normally on a planar half-space.
- b See Clause O.8 on how Δx and Δy may be selected for individual area scan requirements.
- The probe angle relative to the phantom surface normal is restricted due to the degradation in the measurement accuracy in fields with steep spatial gradients. The measurement accuracy decreases with increasing probe angle and increasing frequency. This is the reason for the tighter probe angle restriction at frequencies above 3 GHz.

B	DUT transmit freque	ncy being tested				
Parameter	f ≤ 3 GHz	3 GHz < f ≤ 10 GHz				
Maximum distance between the closest measured points and the phantom surface ($z_{\rm M1}$ in Figure 20 and Table 3, in mm)	5	δ In(2)/2 ^a				
Maximum angle between the probe axis and the	5° (flat phantom only)	5° (flat phantom only)				
phantom surface normal (α in Figure 20)	30° (other phantoms)	20° (other phantoms)				
Maximum spacing between measured points in the x - and y -directions (Δx and Δy , in mm)	8	24/f ^b				
For uniform grids: Maximum spacing between measured points in the direction normal to the phantom shell $(\Delta z_1$ in Figure 20, in mm)	5	10/(f - 1)				
For graded grids: Maximum spacing between the two closest measured points in the direction normal to the phantom shell (Δz_1 in Figure 20, in mm)	4	12/f				
For graded grids: Maximum incremental increase in the spacing between measured points in the direction normal to the phantom shell $(R_z = \Delta z_2/\Delta z_1 \text{ in Figure 20})$	1,5	1,5				
Minimum edge length of the zoom scan volume in the x - and y -directions (L_z in O.8.3.2, in mm)	30	22				
Minimum edge length of the zoom scan volume in the direction normal to the phantom shell $(L_{\rm h}$ in O.8.3.2 in mm)	30	22				
Tolerance in the probe angle	1°	1°				

 $^{^{\}mathrm{a}}$ δ is the penetration depth for a plane-wave incident normally on a planar half-space.

b This is the maximum spacing allowed, which might not work for all circumstances.

5. Description of test position

5.1. Body-worn accessory configurations

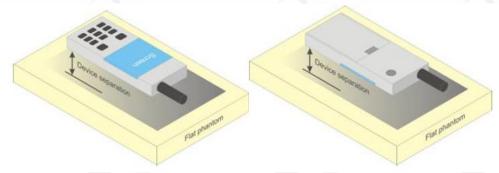
Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

Report No.: DDT-RE24103004-1E08

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D04 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e., the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 20 of 33

5.2. Extremity exposure configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions: i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1-g body and10-g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D04v01 should be applied to determine SAR test requirements.

Report No.: DDT-RE24103004-1E08

For smart phones with a display diagonal dimension >15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear. the phablets procedures outlined in KDB Publication 648474 D04 v01r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worm accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna <=25 mm from that surface or edge, in direct contact with the phantom, for 10-g SAR. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g SAR is required only for the surfaces and edges with hotspot to the maximum output power (including tolerance) is 1-g SAR > 1.2 W/kg.

5.3. Head exposure configurations

Devices that are designed to transmit next to the ear and operate according to the handset procedures in IEEE Std 1528-2013, or conditions described in the published RF exposure KDB procedures, must be tested using the SAM phantom defined in IEEE Std 1528-2013. When antennas are near the bottom of a handset and the peak SAR location is located in regions of the SAM phantom where SAR probe access can be limited, the procedures in KDB Publication 648474 D04 must be applied. Other head exposure conditions, for example, in-front-of the face, should be tested using a flat phantom according to the required published RF exposure KDB procedures.

TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 21 of 33

6. RF exposure conditions

6.1. EUT Test sides

	SAR test sides									
Antonno	Dand	pl.		He	ad					
Antenna	Band	Front	Back	Тор	Bottom	Left	Right			
ANT	BT	V	V	V	1	\checkmark	$\sqrt{}$			

Report No.: DDT-RE24103004-1E08

6.2. Standalone SAR test exclusion considerations

According to the KDB447498, the SAR test exclusion threshold:

y-		Distance(mm)									
Ž	/	5	10	15	20	25	30	35	40	45	50
Σ	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
© ©	835	9	25	44	66	90	116	145	175	207	240
e	1900	3	12	26	44	66	92	122	157	195	236
b	2450	3	10	22	38	59	83	111	143	179	219
Frequen	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

Devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 1 1, based on the separation distance, are exempt from SAR evaluation, The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply. According to RSS-102, the SAR test exclusion threshold:

Frequency (MHz)	≤5 mm (mW)	10 mm (mW)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤300	45	116	139	163	189	216	246	280	319	362
9 450	32	71	® 87	104	124	147	175	208	248 ®	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 22 of 33

7. SAR system verification procedure

7.1. Tissue simulate liquid

7.1.1. Target dielectric properties of head tissue-equivalent material

Frequency	Relative permittivity	Conductivity (σ
(MHz)	(ε' _r)	(S/m)
300	45.3	0.87
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
1500	40.4	1.23
1640	40.2	1.31
1750	40.1	1.37
1800	40.0	1.40
1900	40.0	1.40
2000	40.0	1.40
2100	39.8	1.49
2300	39.5	1.67
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
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

Report No.: DDT-RE24103004-1E08

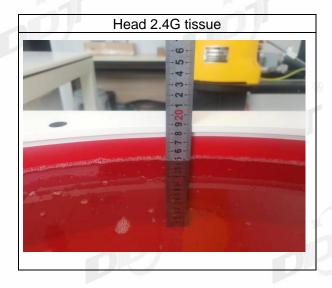
NOTE—For convenience, permittivity and conductivity values at some frequencies that are not part of the original data from Drossos et al. [B60] or the extension to 5800 MHz are provided (i.e., the values shown in italics). These values were linearly interpolated between the values in this table that are immediately above and below these values, except the values at 6000 MHz that were linearly extrapolated from the values at 3000 MHz and 5800 MHz.

7.1.2. Measurement for tissue simulate liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the Agilent Model 85070E Dielectric Probe in conjunction with Agilent E5071C Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $\pm 2^{\circ}$ C.

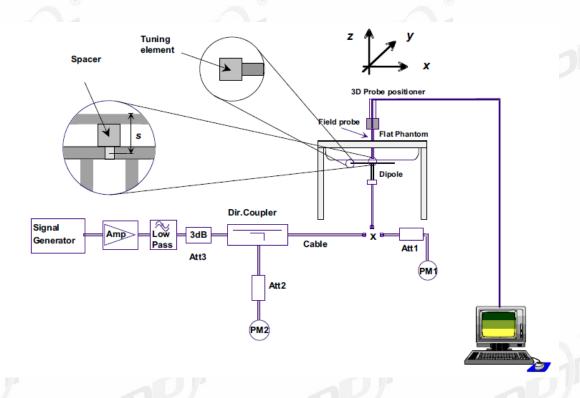
TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 23 of 33

Tissue	Freq.	Target Tiss	sue (±5%)		sured ssue	Liquid Temp.	Measured	
Туре	(MHz)	εr	σ(S/m)	εr	σ(S/m)	(℃)	Date	
	2360	39.38 (37.411~41.349)	1.722 (1.6359~1.808)	39.36	1.757	22.5	2024/12/23	
	2402	39.3 (37.33-41.27)	1.76 (1.672-1.848)	39.3	1.783	22.5	2024/12/23	
	2440	39.22 (37.25-41.18)	1.79 (1.7005-1.879)	39.28	1.812	22.5	2024/12/23	
2.4G head	2441	39.22 (37.25-41.18)	1.79 (1.7005-1.879)	39.28	1.813	22.5	2024/12/23	
ir	2450	39.20 (37.240~41.160)	1.80 (1.710~1.890)	39.24	1.821	22.5	2024/12/23	
	2480	39.16 (37.20-41.12)	1.83 (1.750-1.920)	39.22	1.846	22.5	2024/12/23	
	2540	39.02 (37.069~40.971)	1.878 (1.7841~1.972)	39.16	1.888	22.5	2024/12/23	



7.2. SAR system validation

The microwave circuit arrangement for system verification is sketched in bellow figure. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the table 5 (A power level of 250mw was input to the dipole antenna). During the tests, The laboratory temperature range shall not exceed 2°C, the relative humidity was in the range 75% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



7.2.1. Justification for extended SAR dipole calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.
- 3) Dipole Antenna self-calibration in Appendix E.

7.2.2. Validation test setup photograph



7.2.3. Summary system validation results

Validation I	Kit	Measured SAR 250mW (W/kg)	Measured SAR normalized to 1w (W/kg)	Target SAR normalized to 1w (±10%) (W/kg)	Liquid Temp. (℃)	Measured Date
D2450V2	1-g	12.1	48.4	53.1 (47.79~58.41)	22.5	2024/12/23
@2450MHz	10-g	5.67	22.68	24.5 (22.05~26.95)	22.5	2024/12/23

Report No.: DDT-RE24103004-1E08

7.2.4. Detailed system validation results

See the Appendix A.

8. Equipment list

Test Platform		SPEA	G DASY5 Professio	nal	0
Location			SAR room		
Description	® SA	AR Test System	(Frequency range 3	300MHz-6GHz	
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
Robot	Staubli	TX90 XL	F12/5N3XC/A/01	NCR	NCR
ELI Phantom	SPEAG	QDOVA002 AA	1752	NCR	NCR
Data Acquisition Electronics	SPEAG	DAE4	1366	2024-04-29	2025-04-28
SAR test Probe	SPEAG	EX3DV4	3906	2024-04-29	2025-04-28
Validation Kits	SPEAG	D2450V2	904	2022-01-26	2025-01-25
Agilent Network Analyzer	Agilent	E5071C	MY46316792	2024-04-01	2025-03-31
Dielectric Probe Kit	Agilent	85070E	85070-20037	NCR	NCR
0.1G-2Ghz DUAL DIRECTIONAL COUPLER	Agilent	778D	MY52180233	NCR ®	NCR
2G-18Ghz DUAL DIRECTIONAL COUPLER	Agilent	772D	MY52180116	NCR	NCR
Signal Generator	Agilent	N5182A	MY19060405	2024-04-01	2025-03-31
Preamplifier	Mini-Circuits	ZHL-42W	[®] QA1240001	NCR ®	NCR
Preamplifier	Mini-Circuits	ZVE-8G+	926701231	NCR	NCR
EPM Series Power Meter	Agilent	E4417A	MY50000999	2024-04-01	2025-03-31
Power Sensor	Agilent	E9327A	MY44420458	2024-04-01	2025-03-31
Power Sensor	Agilent	E9327A	MY44420760	2024-04-01	2025-03-31
Attenuator	Agilent	8491A 3dB	MY52460179	NCR 🗸	NCR
Attenuator	Agilent	8491A 10dB	MY52460275	NCR	NCR
Humidity and Temperature Indicator	Euchamp Electronics	YSWS53020 B	20210916	2024-08-26	2025-08-25
Test software	Speag	® DASY5	V52.10.4	N/A	N/A

Report No.: DDT-RE24103004-1E08

TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 28 of 33

9. Measurement uncertainty

Uncertainty Component	probability distribution	Contains the factor	Standard uncertainty Ui	C1(1g)	C1(10g)
Sensitivity of probe	N®	1	±6.55%	® 1	1
Isotropy of the probe	R	√3	±1.08%	1	1
Linearity of the probe	R	√3	±0.35%	1	1
Coupling effect between probe and dielectric boundary	R	√3	±0.46%	1	1
The detection limit of the system	R	⊚ √3	±0.14%	1	₃ 1
Errors in electronic reading equipment	N	1	±0.35%	1	1
Measure the response time of the equipment	R	√3	0	1	1
Measure the integral time of the equipment	R	√3	±1.50%	1	1
Data post-processing algorithm	R	√3	±0.58%	1	1
Electromagnetic environment disturbance	R	√3 ®	±1.73%	1	1 @
the positioning accuracy of the probe	R	√3	±0.87%	1	1
The positioning accuracy of the probe tip relative to the model surface	R	√3	±1.67%	1	1
Manufacturing tolerances for models	R	√3	±2.31%	1	1
Deviation of measured liquid conductivity from target value	R	√3	±2.89%	0.64	0.43
Liquid conductivity test system accuracy	N	1	±2.5%	0.64	0.43
The deviation between the measured permittivity of liquid and the target value	R	√3	±2.89%	0.6	0.49
Test precision of liquid permittivity test system	N	1	±2.5%	0.6	0.49
The disturbance of the positioning fixture	N)	1	±5.2%	® 1	1
Accuracy of sample positioning	N	1	±4.6%	1	1
The output power of the tested sample drifts	R	√3	±2.89%	1	1
Combined standard uncertainty		Uc(1g)=11.3	3%, Uc(10g)=1	1.0%	
Expanded uncertainty (95% confidence interval) k=2		U(1g)=22	.6%, U(10g)=2	2%	

Report No.: DDT-RE24103004-1E08

TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 29 of 33

10. Test results and measurement data

10.1. RF conducted power

Antenna conducted power

L Side:

	7		E	Bluetooth BR	/EDR	*)					
Average conducted power											
Mode	Channel	Frequency (MHz)	Power (dBm)	E.I.R.P Power (dBm)	Duty-Cycle	Max. Tune-up Power (dBm)	Max. Tune-up E.I.R.P Power (dBm)				
	0	2402	6.08	8.3	0.7707	7.0	9.22				
DH5	39	2441	5.92	8.14	0.7707	7.0	9.22				
	78	2480	5.57	7.79	0.7707	7.0	9.22				
	0	2402	6.65	8.87	0.7739	7.0	9.22				
2DH5	39	2441	6.52	8.74	0.7733	7.0	9.22				
	78	2480	6.29	8.51	0.7733	7.0	9.22				
	0	2402	7.02	9.24	0.7733	8.0	10.22				
3DH5	39	2441	6.78	9.0	0.7733	8.0	10.22				
	78	2480	6.57	8.79	0.7713	8.0	10.22				

Report No.: DDT-RE24103004-1E08

				Bluetooth	LE							
	Average conducted power											
Mode	Channel	Frequency (MHz)	Power (dBm)	E.I.R.P Power (dBm)	Duty-Cycle	Max. Tune-up Power (dBm)	Max. Tune-up E.I.R.P Power (dBm)					
	0	2402	5.81	8.03	0.8520	6.0	8.22					
BLE 1M	19	2440	5.87	8.09	0.8520	6.0	8.22					
TIVI	39	2480	5.27	7.49	0.8520	6.0	8.22					
8	1	2404	5.79	8.01	0.4320	6.0	8.22					
BLE 2M	19	2440	5.94	8.16	0.4320	6.0	8.22					
2101	38	2478	5.52	7.74	0.4320	6.0	8.22					

TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 30 of 33

R Side:

	Dr		E	Bluetooth BF	R/EDR	101				
Average conducted power										
Mode	Channel	Frequency (MHz)	Power (dBm)	E.I.R.P Power (dBm)	Duty-Cycle	Max. Tune-up Power (dBm)	Max. Tune-up E.I.R.P Power (dBm)			
	0	2402	6.35	7.32	0.7707	7.0	7.97			
DH5	39	2441	6.14	7.11	0.7733	7.0	7.97			
(R)	78	2480	5.76	6.73	0.7707	7.0	7.97			
1	0	2402	7.04	8.01	0.7739	7.5	8.47			
2DH5	39	2441	6.82	7.79	0.7739	7.5	8.47			
	78	2480	6.53	7.5	0.7713	7.5	8.47			
	0	2402	7.35	8.32	0.7739	8.0	8.97			
3DH5	® 39	2441	7.19 ®	8.16	0.7713	® 8.0	8.97			
	78	2480	6.81	7.78	0.7733	8.0	8.97			

Report No.: DDT-RE24103004-1E08

Bluetooth LE											
Average conducted power											
Mode	Channel	Frequency (MHz)	Power (dBm)	E.I.R.P Power (dBm)	Duty-Cycle	Max. Tune-up Power (dBm)	Max. Tune-up E.I.R.P Power (dBm)				
	0	2402	6.25	7.22	0.8520	6.5	7.47				
BLE 1M	19	2440	6.23	7.2	0.8520	6.5	7.47				
1101	39	2480	5.62	6.59	0.8520	6.5	7.47				
	1	2404	6.28	7.25	0.4320	6.5	7.47				
BLE 2M	19	2440	6.39	7.36	0.4320	6.5	7.47				
	38	2478	5.88	6.85	0.4320	6.5	7.47				

Note:

- 1. The output power of the device was set to transmit at maximum power for all test.
- 2.The Bluetooth maximum output power mode is 3DH5, select 3DH5 mode to test SAR.

10.2. Measurement of head SAR data

L side:

Bluetooth Head 0mm SAR 1-g											
Test position	Test mode	Test Freq (MHz)	Duty Cycle	SAR 1-g (W/kg)	Power drift (dB)	E.I.R.P Power (dBm)	Max. Tune- up E.I.R.P Power (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.	SAR limit 1-g (W/kg)
Front	3DH5	2402	0.7733	0.0549	0.03	9.24	10.22	1.621	0.089	22.5 🔞	1.6
Back	3DH5	2402	0.7733	0.00726	-0.12	9.24	10.22	1.621	0.012	22.5	1.6
Тор	3DH5	2402	0.7733	0.00819	0.07	9.24	10.22	1.621	0.013	22.5	1.6
Bottom	3DH5	2402	0.7733	0.00633	-0.16	9.24	10.22	1.621	0.010	22.5	1.6
Left	3DH5	2402	0.7733	0.00537	0.04	9.24	10.22	1.621	0.009	22.5	1.6
Right	3DH5	2402	0.7733	0.0043	0.12	9.24	10.22	[®] 1.621	0.007	22.5	1.6®
Front	3DH5	2441	0.7733	0.0685	-0.10	9.0	10.22	1.713	0.117	22.5	1.6
Front	3DH5	2480	0.7713	0.0548	0.07	8.79	10.22	1.802	0.099	22.5	1.6

Report No.: DDT-RE24103004-1E08

R side:

Bluetooth Head 0mm SAR 1-g											
Test position	Test mode	Test Freq (MHz)	Duty Cycle	SAR 1-g (W/kg)	Power drift (dB)	E.I.R.P Power (dBm)	Max. Tune- up E.I.R.P Power (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.	SAR limit 1-g (W/kg)
Front	3DH5	2402	0.7739	0.0539	0.01	8.32	8.97	1.501	0.081	22.5	1.6
Back	3DH5	2402	0.7739	0.0273	0.06	8.32	8.97	1.501	0.041	22.5	1.6
Тор	3DH5	2402	0.7739	0.0443	0.17	8.32	8.97	1.501	0.066	22.5	1.6
Bottom	3DH5	2402	0.7739	0.00764	-0.05	8.32	8.97	1.501	0.011	22.5	1.6
Left	3DH5	2402	0.7739	0.0262	0.04	8.32	8.97	1.501	0.039	22.5	1.6
Right	3DH5	2402	0.7739	0.0498	0.01	8.32	8.97	1.501	0.075	22.5	1.6
Front	3DH5	2441	0.7713	0.0581	0.04	8.16	8.97	1.562	0.091	22.5	1.6
Front	3DH5	2480	0.7733	0.0672	-0.08	7.78	8.97	1.701	0.114	22.5	1.6

Note:

- 1)The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2)Scaled factor= (Max. Tune-up. E.I.R.P power in mW) / (E.I.R.P Power in mW) / (Duty Cycle)
- 3)Scaled SAR=Test SAR * Scaled factor

TRF No.: RT-4-E-02-601 FCC SAR Test Report Ver.1.1 Page 32 of 33

Appendix

Appendix A: System Validation Plots

Appendix B: Highest Test Plots

Appendix C: Calibration Certification
Appendix D: Test setup photograph

Appendix E: Dipole Antenna self-calibration

END REPORT