TEST REPORT

Do	nort	No	
ĸe	ροπ	No.	:

STS230130001001E

Product: Wireless Earphone

Model No.: AirBuds 10

Applicant: DOKE COMMUNICATION (HK) LIMITED

Address:

RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA

Issued by: Lab Location: Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China

Tel: 400-800-6106, 0755-2320 0050 / 2320 0090

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TEST REPORT IEC/EN62368-1

Audio/video, information and communication technology equipment Part 1: Safety requirements

Report Number:	STS230130001001E
Tested by (+ signature):	Helen Lin Acbulin Henson Dong Henson Dung
Approved by (+ signature):	Henson Dong Henson Dung
Date of issue:	2023-02-27
Testing laboratory:	Shenzhen NTEK Testing Technology Co., Ltd.
Address:	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126P.R. China
Testing location	Same as above
Applicant's name:	DOKE COMMUNICATION (HK) LIMITED
Address	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA
Test specification:	
Standard	□IEC 62368-1:2014 (Second Edition) ⊠EN 62368-1:2014+A11:2017
Test procedure:	CE Scheme
Non-standard test method:	N/A
Test Report Form No	IEC62368_1B
Test Report Form(s) Originator:	UL(US)
Master TRF	2014-03
	m for Conformity Testing and Certification of Electrotechnical E), Geneva, Switzerland. All rights reserved.
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Test item	
Description:	Wireless Earphone
Trade Mark:	Blackview
Manufacturer	Shenzhen DOKE Electronic Co.,Ltd
Address	: 801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China
Model/Type reference	AirBuds 10

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TEST ITEM PARTICULARS:		
Classification of use by	🖂 Ordinary person	
	Instructed person	
	Skilled person	
	Children likely to be present	
Supply Connection	AC Mains DC Mains	
	External Circuit - not Mains connected	
	-⊠ES1 □ES2 □ES3	
Supply % Tolerance:		
	+20%/-15%	
	□+%/%	
Supply Connection Type		
Supply Connection – Type:	pluggable equipment type A - non-detachable supply cord	
	appliance coupler	
	☐ direct plug-in	
	mating connector	
Let a start a	🗌 pluggable equipment type B -	
	non-detachable supply cord	
	appliance coupler	
	□ permanent connection □ mating connector⊠ other: <u>Type C connector</u>	
Considered current rating of protective device as part		
of building or equipment installation	Installation location: Duilding;Dequipment	
Equipment mobility:	Movable And-held Atransportable	
	stationary for building-in direct plug-in rack-mounting wall-mounted	
Over voltage category (OVC)		
	OVC IV⊠other:(Not directly connected to mains)	
Class of equipment	Class I Class II Class III	
Access location	□ restricted access location	
Pollution degree (PD)	□PD 1 🖾 PD 2 🔷 🗌 PD 3	
Manufacturer's specified maxium operating ambient:	45°C	
IP protection class		
Power Systems	□ TN □ TT□ IT V ∟L	
Altitude during operation (m)	⊠2000 m or less	
Altitude of test laboratory (m)	⊠2000 m or less □ m	
Mass of equipment (kg):	Approx. 0.082kg	
POSSIBLE TEST CASE VERDICTS:		
- test case does not apply to the test object:	N/A	

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Date (s) of performance of tests	:: F (Fail)
TESTING: Date of receipt of test item Date (s) of performance of tests	: 2023-02-06
Date of receipt of test item Date (s) of performance of tests	
Date (s) of performance of tests	: 2023-02-13 to 2023-02-16
GENERAL REMARKS:	
"(See Enclosure #)" refers to additional informati "(See appended table)" refers to a table appended	
Throughout this report a \Box comma / \boxtimes point is a	used as the decimal separator.
Manufacturer's Declaration per sub-clause 4.2.5 o	f IECEE 02:
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☐ Yes ⊠ Not applicable
When differences exist; they shall be identified in	the General product information section.
Name and address of factory (ies)	: Same as manufacturer
GENERAL PRODUCT INFORMATION:	
	plied by a built-in Li-ion battery and shall be charged by upplied by a built-in battery and can be charged by an US
Additional application considerations - (Conside	erations used to test a component or sub-assembly) –
N/A	
Copy of marking plate:	- 2 + 5
The artwork below may be only a draft. The use of correspective Certification Bodies that own these marks	ertification marks on a product must be authorized by the s.
	Adds 10 th Output: 5V == 160mA mAh 2.035Wh ROHS @ A
FCC ID: 2A7DX-A	IRBUDS10 Made in China



ENERGY SOURCE IDENTIFICATION AND CLASSIFIC	ATION TABLE:
(Note 1: Identify the following six (6) energy source form (Note 2: The identified classification e.g., ES2, TS1, sho on the body or its ability to ignite a combustible material. worse case classification e.g. PS3, ES3.	uld be with respect to its ability to cause pain or injury
Electrically-caused injury (Clause 5):	
(Note: Identify type of source, list sub-assembly or circuit classification) Example: +5 V dc input	t designation and corresponding energy source ES1
Source of electrical energy	Corresponding classification (ES)
All internal circuits	ES1
Electrically-caused fire (Clause 6): (Note: List sub-assembly or circuit designation and corre Example: Battery pack (maximum 85 watts):	sponding energy source classification) PS2
Source of power or PIS	Corresponding classification (PS)
Internal circuits 🦯 💦	PS1
Battery output of charging case and earphone	PS1
Injury caused by hazardous substances (Clause 7) (Note: Specify hazardous chemicals, whether produces of part of the component evaluation.) Example: Liquid in filled component	ozone or other chemical construction not addressed as Glycol
Source of hazardous substances	Corresponding chemical
Battery pack of charging case	Complied with annex M
Battery pack of charging case Battery pack of earphone	Complied with annex M Complied with annex M
	Complied with annex M
Battery pack of earphone Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc.	Complied with annex M & corresponding MS classification based on Table 35.)
Battery pack of earphone Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. Example: Wall mount unit	& corresponding MS classification based on Table 35.)
Battery pack of earphone Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. Example: Wall mount unit Source of kinetic/mechanical energy	Complied with annex M & corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS)
Battery pack of earphone Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts	Complied with annex M & corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 energy source classification based on type of part,
Battery pack of earphone Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding location, operating temperature and contact time in Table	Complied with annex M & corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 energy source classification based on type of part, 38.)
Battery pack of earphone Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding location, operating temperature and contact time in Table Example: Hand-held scanner – thermoplastic enclosure	Complied with annex M & corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 energy source classification based on type of part, 38.) TS1
Battery pack of earphone Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding location, operating temperature and contact time in Table Example: Hand-held scanner – thermoplastic enclosure Source of thermal energy	Complied with annex M & corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 energy source classification based on type of part, 38.) TS1 Corresponding classification (TS) TS1
Battery pack of earphone Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding location, operating temperature and contact time in Table Example: Hand-held scanner – thermoplastic enclosure Source of thermal energy Accessible parts Radiation (Clause 10) (Note: List the types of radiation present in the product an	Complied with annex M & corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 energy source classification based on type of part, 38.) TS1 Corresponding classification (TS) TS1 d the corresponding energy source classification.)
Battery pack of earphone Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding of location, operating temperature and contact time in Table Example: Hand-held scanner – thermoplastic enclosure Source of thermal energy Accessible parts Radiation (Clause 10) (Note: List the types of radiation present in the product an Example: DVD – Class 1 Laser Product	Complied with annex M & corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 energy source classification based on type of part, 38.) TS1 Corresponding classification (TS) TS1 d the corresponding energy source classification.) RS1
Battery pack of earphone Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding location, operating temperature and contact time in Table Example: Hand-held scanner – thermoplastic enclosure Source of thermal energy Accessible parts Radiation (Clause 10) (Note: List the types of radiation present in the product an Example: DVD – Class 1 Laser Product Type of radiation	Complied with annex M & corresponding MS classification based on Table 35.) MS2 Corresponding classification (MS) MS1 MS1 energy source classification based on type of part, 38.) TS1 Corresponding classification (TS) TS1 d the corresponding energy source classification.) RS1 Corresponding energy source classification.) RS1 RS1



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\boxtimes ES \boxtimes PS \boxtimes MS \boxtimes TS \boxtimes RS

OVERVIEW OF EMPLOYEDSAFE	GUARDS			
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source		;	
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplement ary	Reinforced(E
Ordinary	ES1: Internal circuits	N/A	N/A	N/A
6.1	Electrically-caused fire			
Material part Energy Source Safeguards				
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplement ary	Reinforced
Internal combustible material/ internal plastic enclosure	PS1: Internal circuits PS1: Battery output	N/A	N/A	N/A
7.1	Injury caused by hazardous	substances		
Body Part	Energy Source		Safeguards	
(e.g., skilled)	(hazardous material)	Basic	Supplement ary	Reinforced
Li-ion battery	Complied with annex M	N/A	N/A	N/A 🤝
8.1	Mechanically-caused injury			
Body Part	Energy Source		Safeguards	;
(e.g. Ordinary)	(MS3:High Pressure Lamp)	Basic	Supplement ary	Reinforced (Enclosure)
Ordinary person	MS1: Sharp edges and corners of accessible parts	N/A	N/A	N/A
Ordinary person	MS1: Product mass	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part	Energy Source		Safeguards	;
(e.g., Ordinary)	(TS2)	Basic	Supplement ary	Reinforced
Ordinary person	TS1: Accessible parts	N/A	N/A	N/A
10.1	Radiation			
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(Output from audio port)	Basic	Supplement ary	Reinforced
Ordinary	RS1: LED indicator	N/A	N/A	N/A

(2) "N" - Normal Condition; "A" - Abnormal Condition; "S" Single Fault

	IEC/EN 62368-	1 🔨 🥿	
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		Р
4.1.1	Acceptance of materials, components and subassemblies	(See appended table 4.1.2)	P
4.1.2	Use of components	(See appended table 4.1.2)	Р
4.1.3	Equipment design and construction	1 At St	Р
4.1.15	Markings and instructions:	(See Annex F)	Р
4.4.4 🔊	Safeguard robustness		P
4.4.4.2	Steady force tests	(See Annex T.4)	P
4.4.4.3	Drop tests	(See Annex T.7)	Р
4.4.4.4	Impact tests:		N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	No such enclosure and barrier	N/A
4.4.4.6	Glass Impact tests	No glass used	N/A
4.4.4.7	Thermoplastic material tests	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard	Considered, but no such barrier or enclosure provided	N/A
4.4.4.9	Accessibility and safeguard effectiveness	All safeguards remain effective	Р
4.5	Explosion		P
4.6	Fixing of conductors		Р
4.6.1	Fix conductors not to defeat a safeguard		Р
4.6.2	10 N force test applied to		Р
4.7	Equipment for direct insertion into mains socket - outlets	No such apparatus	N/A
4.7.2	Mains plug part complies with the relevant standard	+ 4	N/A
4.7.3	Torque (Nm)		N/A
4.8	Products containing coin/button cell batteries	No coin/button cell batteries used	N/A
4.8.2	Instructional safeguard	× 4	N/A
4.8.3	Battery Compartment Construction	×	N/A
	Means to reduce the possibility of children removing the battery	at A	
4.8.4	Battery Compartment Mechanical Tests	4	N/A
4.8.5	Battery Accessibility		N/A
4.9	Likelihood of fire or shock due to entry of conductive object	(See Annex P)	Р

5	ELECTRICALLY-CAUSED INJURY		Р
5.2.1	Electrical energy source classifications:	(See appended table 5.2)	Р

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Clause	Requirement + Test	Result - Remark	Verdict
5.2.2	ES1, ES2 and ES3 limits	A 5	Р
5.2.2.2	Steady-state voltage and current:	(See appended table 5.2)	Р
5.2.2.3	Capacitance limits:		N/A
5.2.2.4	Single pulse limits	No single pulse introduced	N/A
5.2.2.5	Limits for repetitive pulses:	No repetitive pulses introduced	N/A
5.2.2.6	Ringing signals	No ringing signals.	N/A
5.2.2.7	Audio signals:		N/A
5.3	Protection against electrical energy sources	All internal circuits considered ES1	N/A
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons		N/A
5.3.2.1	Accessibility to electrical energy sources and safeguards	at star of	N/A
5.3.2.2	Contact requirements	2	N/A
	a) Test with test probe from Annex V		N/A
4	b) Electric strength test potential (V):		N/A
	c) Air gap (mm):		N/A
5.3.2.4	Terminals for connecting stripped wire	× ×	N/A
5.4	Insulation materials and requirements	1 Alexandree	Р
5.4.1.2	Properties of insulating material	*	Р
5.4.1.3	Humidity conditioning:	Hygroscopic material not used as insulation.	N/A
5.4.1.4	Maximum operating temperature for insulating materials	(See appended table 5.4.1.4)	Р
5.4.1.5	Pollution degree:	<	
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A
5.4.1.5.3	Thermal cycling		N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage	* 5	N/A
5.4.1.9	Insulating surfaces		N/A
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted	ک 🛧	N/A
5.4.1.10.2	Vicat softening temperature:		N/A
5.4.1.10.3	Ball pressure		N/A
5.4.2	Clearances		N/A
5.4.2.2	Determining clearance using peak working voltage		N/A

	IEC/EN 62368-	1 📈 🤝	
Clause	Requirement + Test	Result - Remark	Verdict
5.4.2.3	Determining clearance using required withstand voltage	t at the	N/A
	a) a.c. mains transient voltage:	~ ~	
	b) d.c. mains transient voltage:		
	c) external circuit transient voltage:		
	d) transient voltage determined by measurement		
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	A AT	N/A
5.4.2.5	Multiplication factors for clearances and test voltages:	F 4	N/A
5.4.3	Creepage distances:		N/A
5.4.3.1	General		N/A
5.4.3.3	Material Group:	4	
5.4.4	Solid insulation		N/A
5.4.4.2	Minimum distance through insulation:		N/A
5.4.4.3	Insulation compound forming solid insulation	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Cemented joints		N/A
5.4.4.6	Thin sheet material		N/A
5.4.4.6.1	General requirements		N/A
5.4.4.6.2	Separable thin sheet material		N/A
	Number of layers (pcs):		N/A
5.4.4.6.3	Non-separable thin sheet material		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:		N/A
5.4.4.6.5	Mandrel test		N/A
5.4.4.7	Solid insulation in wound components		N/A
5.4.4.9	Solid insulation at frequencies >30 kHz:		N/A
5.4.5	Antenna terminal insulation	No such terminal	N/A
5.4.5.1	General	5	N/A
5.4.5.2	Voltage surge test		🔗 N/A 🏑
2	Insulation resistance (MΩ)		
5.4.6	Insulation of internal wire as part of supplementary safeguard		N/A
5.4.7	Tests for semiconductor components and for cemented joints	t to the	N/A
5.4.8	Humidity conditioning		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Relative humidity (%)		
1	Temperature (°C):	A 2	
<	Duration (h):		
5.4.9	Electric strength test:		N/A
5.4.9.1	Test procedure for a solid insulation type test		N/A
5.4.9.2 💉	Test procedure for routine tests		N/A
5.4.10	Protection against transient voltages between external circuit	No connection to external circuits with transient voltage.	N/A
5.4.10.1	Parts and circuits separated from external circuits	F 5 6	N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test	1 2 2 N	N/A
5.4.10.2.3	Steady-state test	~	N/A
5.4.11	Insulation between external circuits and earthed circuitry:	No connection to external circuits with transient voltage.	N/A
5.4.11.1	Exceptions to separation between external circuits and earth	AN AN P	N/A
5.4.11.2	Requirements	R	N/A
	Rated operating voltage U _{op} (V):	× 7	
	Nominal voltage U _{peak} (V):		
4 3	Max increase due to variation U _{sp}		
	Max increase due to ageing ΔU_{sa} :		
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa} \dots$	2	
5.5	Components a	s safeguards	
5.5.1 🤝	General		N/A
5.5.2	Capacitors and RC units		N/A
5.5.2.1	General requirement		N/A
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector:	t states	N/A
5.5.3	Transformers		N/A
5.5.4	Optocouplers	~	N/A
5.5.5	Relays	× ×	N/A
5.5.6	Resistors	* 5	N/A
5.5.7	SPD's		N/A
5.5.7.1	Use of an SPD connected to reliable earthing		N/A
5.5.7.2	Use of an SPD between mains and protective earth		N/A

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1	IEC/EN 62368-		A
Clause	Requirement + Test	Result - Remark	Verdict
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable:	t wet the	N/A
5.6	Protective conductor		N/A
5.6.2	Requirement for protective conductors		N/A
5.6.2.1	General requirements		N/A
5.6.2.2	Colour of insulation		N/A
5.6.3 🔷	Requirement for protective earthing conductors		N/A
	Protective earthing conductor size (mm ²):		
5.6.4	Requirement for protective bonding conductors	F 37 6	N/A
5.6.4.1	Protective bonding conductors		N/A
	Protective bonding conductor size (mm ²):		
	Protective current rating (A):	2 7 N	
5.6.4.3	Current limiting and overcurrent protective devices	4	N/A
5.6.5	Terminals for protective conductors		N/A
5.6.5.1	Requirement		N/A
S.C.	Conductor size (mm ²), nominal thread diameter (mm).		N/A
5.6.5.2	Corrosion	4	N/A
5.6.6	Resistance of the protective system		N/A
5.6.6.1	Requirements		N/A
5.6.6.2	Test Method Resistance (Ω):		N/A
5.6.7	Reliable earthing	2	N/A
5.7	Prospective touch voltage, touch current and prote	ctive conductor current	N/A
5.7.2 🔷	Measuring devices and networks		N/A
5.7.2.1	Measurement of touch current		N/A
5.7.2.2	Measurement of prospective touch voltage		N/A
5.7.3	Equipment set-up, supply connections and earth connections		N/A
	System of interconnected equipment (separate connections/single connection):	ALC C	
ATC: C	Multiple connections to mains (one connection at a time/simultaneous connections)	A 4	
5.7.4	Earthed conductive accessible parts		N/A
5.7.5	Protective conductor current		N/A
A.	Supply Voltage (V):		
	Measured current (mA)		

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Clause	Requirement + Test	Result - Remark	Verdict
*	Instructional Safeguard:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits	AT A	N/A
5.7.6.1	Touch current from coaxial cables		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits	at the first	N/A
5.7.7	Summation of touch currents from external circuits		N/A
al.	a) Equipment with earthed external circuits Measured current (mA):	+ star str	N/A
A.C.	b) Equipment whose external circuits are not referenced to earth. Measured current (mA):	at .	N/A

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potential ig	gnition sources (PIS)	Р
6.2.2	Power source circuit classifications		Р
6.2.2.1	General		Р
6.2.2.2	Power measurement for worst-case load fault :	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault:	(See appended table 6.2.2)	Р
6.2.2.4	PS1:	(See appended table 6.2.2)	Р
6.2.2.5	PS2:	(See appended table 6.2.2)	N/A
6.2.2.6	PS3:		N/A
6.2.3	Classification of potential ignition sources	Str.	N/A
6.2.3.1	Arcing PIS:	F	N/A
6.2.3.2	Resistive PIS	(See appended table 6.2.3.2)	N/A
6.3	Safeguards against fire under normal operating and abnormal operating conditions		Р
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	P
6.3.1 (b)	Combustible materials outside fire enclosure	* *	N/A
6.4	Safeguards against fire under single fault conditions		Р
6.4.1	Safeguard Method	Method of "control of fire spread" is used.	Р
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits	the All	N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		N/A
6.4.3.1	General		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.3.2	Supplementary Safeguards		N/A
	Special conditions if conductors on printed boards are opened or peeled	AT AN	N/A
6.4.3.3	Single Fault Conditions :		N/A
	Special conditions for temperature limited by fuse	1 A A	N/A
6.4.4	Control of fire spread in PS1 circuits		Р
6.4.5	Control of fire spread in PS2 circuits		N/A
6.4.5.2	Supplementary safeguards:		N/A
6.4.6	Control of fire spread in PS3 circuit	F 27 7	N/A
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.1	General:		N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier	4	N/A
6.4.8	Fire enclosures and fire barriers	4	N/A
6.4.8.1	Fire enclosure and fire barrier material properties		N/A
6.4.8.2.1	Requirements for a fire barrier	No such barrier used.	N/A
6.4.8.2.2	Requirements for a fire enclosure		N/A
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier	* *	N/A
6.4.8.3.1	Fire enclosure and fire barrier openings	No openings on the fire enclosure.	N/A
6.4.8.3.2	Fire barrier dimensions		N/A
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions(mm)	ATT A	N/A
	Needle Flame test		N/A
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	the state	N/A
×	Flammability tests for the bottom of a fire enclosure	+ 4	N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c):		N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating:	ATTER P	N/A
6.5	Internal and external wiring		Р
6.5.1	Requirements		Р
6.5.2	Cross-sectional area (mm ²):	Less than 0.5mm ²	
6.5.3	Requirements for interconnection to building wiring	× A	N/A

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Clause	Requirement + Test	Result - Remark	X	Verdict
6.6	Safeguards against fire due to connection to additional equipment	No output port	4	N/A
	External port limited to PS2 or complies with Clause Q.1	4	×	N/A

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		Р
7.2	Reduction of exposure to hazardous substances	No hazardous substance is accessible.	N/A
7.3	Ozone exposure		N/A
7.4	Use of personal safeguards (PPE)	5 5 7	N/A
	Personal safeguards and instructions	4	_
7.5	Use of instructional safeguards and instructions		N/A
	Instructional safeguard (ISO 7010)	19 7 7 7	_
7.6	Batteries	(See appended tables Annex M)	Р

8	MECHANICALLY-CAUSED INJURY		Р
8.1	General	2 2 1	Р
8.2	Mechanical energy source classifications	19 A.	Р
8.3	Safeguards against mechanical energy sources	4 4	Р
8.4	Safeguards against parts with sharp edges and corners	At A A	P
8.4.1	Safeguards	MS1 classification	N/A
8.5	Safeguards against moving parts		N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
8.5.2	Instructional Safeguard :		
8.5.4	Special categories of equipment comprising moving parts		N/A
8.5.4.1	Large data storage equipment	×	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media		N/A
8.5.4.2.1	Safeguards and Safety Interlocks	4	N/A
8.5.4.2.2	Instructional safeguards against moving parts	× ×	N/A
	Instructional Safeguard	* *	
8.5.4.2.3	Disconnection from the supply		N/A
8.5.4.2.4	Probe type and force (N):		N/A
8.5.5	High Pressure Lamps	* * * *	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
8.5.5.1	Energy Source Classification		N/A
8.5.5.2	High Pressure Lamp Explosion Test		N/A
8.6	Stability	Mass < 7kg	N/A
8.6.1	Product classification	MS1	N/A
	Instructional Safeguard		
8.6.2	Static stability		N/A
8.6.2.2	Static stability test		S N/A
4	Applied Force		
8.6.2.3	Downward Force Test		N/A
8.6.3	Relocation stability test		– N/A
	Unit configuration during 10° tilt:	A 5 8	
8.6.4	Glass slide test	20	N/A
8.6.5	Horizontal force test (Applied Force):		N/A
Ć,	Position of feet or movable parts:		_
8.7	Equipment mounted to wall or ceiling		N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)		N/A
8.7.2	Direction and applied force:		N/A
8.8	Handles strength	A A	N/A
8.8.1	Classification	K C X	N/A
8.8.2	Applied Force		N/A
8.9	Wheels or casters attachment requirements	5	N/A
8.9.1	Classification	E (N/A
8.9.2 🔷	Applied force		_
8.10	Carts, stands and similar carriers		N/A
8.10.1	General	× <	N/A
8.10.2	Marking and instructions	×	N/A
7	Instructional Safeguard:		
8.10.3	Cart, stand or carrier loading test and compliance		N/A
	Applied force		_
8.10.4	Cart, stand or carrier impact test	A 2	N/A
8.10.5	Mechanical stability		N/A
	Applied horizontal force (N)	<u> </u>	
8.10.6	Thermoplastic temperature stability (°C)		N/A
8.11	Mounting means for rack mounted equipment		N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
8.11.1	General	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A	
8.11.2	Product Classification	A 5	N/A	
8.11.3	Mechanical strength test, variable N		N/A	
8.11.4	Mechanical strength test 250N, including end stops		N/A	
8.12	Telescoping or rod antennas		N/A	
	Button/Ball diameter (mm)	× 4		

THERMAL BURN INJURY		Р
Thermal energy source classifications	TS1: accessible parts	Р
Safeguard against thermal energy sources		N/A
Requirements for safeguards		N/A
Equipment safeguard		N/A
Instructional safeguard		N/A 🔨
	Safeguard against thermal energy sources Requirements for safeguards Equipment safeguard	Safeguard against thermal energy sources Requirements for safeguards Equipment safeguard

10	RADIATION		Р
10.2	Radiation energy source classification	RS1	Р
10.2.1	General classification	L.	N/A
10.3	Protection against laser radiation	No laser.	N/A
	Laser radiation that exists equipment:		_
	Normal, abnormal, single-fault		N/A
	Instructional safeguard		_
	Tool	2	
10.4	Protection against visible, infrared, and UV radiation	LED indicator	N/A
10.4.1	General		N/A
10.4.1.a)	RS3 for Ordinary and instructed persons	* ~	N/A
10.4.1.b)	RS3 accessible to a skilled person	4	N/A
4	Personal safeguard (PPE) instructional safeguard	at and	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:	2	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions	.L. &	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque	Safeguard is not required.	N/A
10.4.1.f)	UV attenuation	No UV.	N/A
10.4.1.g)	Materials resistant to degradation UV	No UV.	N/A
10.4.1.h)	Enclosure containment of optical radiation	No required.	N/A

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4	IEC/EN 62368-	1 🔨 🥆	6
Clause	Requirement + Test	Result - Remark	Verdict
10.4.1.i)	Exempt Group under normal operating conditions	A REF AND	N/A
10.4.2	Instructional safeguard	Not required.	N/A
10.5	Protection against x-radiation	No X-radiation.	N/A
10.5.1	X- radiation energy source that exists equipment :	(See appended table B.3 & B.4)	N/A
	Normal, abnormal, single fault conditions		N/A
	Equipment safeguards		N/A
	Instructional safeguard for skilled person		N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation		
	Abnormal and single-fault condition		N/A
	Maximum radiation (pA/kg)		N/A
10.6	Protection against acoustic energy sources	<	N/A
10.6.1	General		N/A
10.6.2	Classification		N/A
X	Acoustic output, dB(A)	2 2	N/A
	Output voltage, unweightedr.m.s.		N/A
10.6.4	Protection of persons	× ×	N/A
	Instructional safeguards		N/A
* *	Equipment safeguard prevent ordinary person to RS2	ATT A LAT	_
	Means to actively inform user of increase sound pressure	Not used	_
- 1 ⁻¹	Equipment safeguard prevent ordinary person to RS2	t st	_
10.6.5	Requirements for listening devices (headphones, earphones, etc.)		Р
10.6.5.1	Corded passive listening devices with analog input	× .	N/A
	Input voltage with 94 dB(A) LAeq acoustic pressure output :	the second	
10.6.5.2	Corded listening devices with digital input	4	N/A
Stor.	Maximum dB(A) :		
10.6.5.3	Cordless listening device		Р
*	Maximum dB(A) :	Measured value: Left: 89.2dB; right: 88.3dB.	_

<i></i>	IEC/EN 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		Р
B.2	Normal Operating Conditions	See the following details.	Р
B.2.1	General requirements	(See summary of testing and appended table)	P
	Audio Amplifiers and equipment with audio amplifiers	Not such equipment.	N/A
B.2.3 🤿	Supply voltage and tolerances	(See appended table B.2.5)	P
B.2.5	Input test:	(See appended table B.2.5)	Р
B.3	Simulated abnormal operating conditions	7 7 7	Р
B.3.1	General requirements	See below	Р
B.3.2	Covering of ventilation openings		N/A
B.3.3	D.C. mains polarity test		N/A
B.3.4	Setting of voltage selector	No voltage selector	N/A
B.3.5	Maximum load at output terminals	(See appended table B.3)	P
B.3.6	Reverse battery polarity	No battery replaced by ordinary person	Ρ
B.3.7	Abnormal operating conditions as specified in Clause E.2.	(See appended table B.3)	P
B.3.8	Safeguards functional during and after abnormal operating conditions	All safeguards remained effective.	Р
B.4	Simulated single fault conditions	K Z X	Р
B.4.2	Temperature controlling device open or short- circuited	No such device used.	N/A
B.4.3	Motor tests	No motors.	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature:		N/A
B.4.4	Short circuit of functional insulation	(See appended table B.4)	Р
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Р
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	Р
B.4.4.3	Short circuit of functional insulation on coated printed boards	ATT F	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	P
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	Р
B.4.7	Continuous operation of components	5	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	Class 1 and Class 2 energy sources were within limits during and after single fault conditions.	Р

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Clause	Requirement + Test	Result - Remark	Verdict
B.4.9	Battery charging under single fault conditions :	(See appended table M)	Р

С	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	the state	N/A
C.1.2	Requirements	A S	N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus	AF 25 7	N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure apparatus		N/A
C.2.4	Xenon-arc light exposure apparatus		N/A

D	TEST GENERATORS				N/A
D.1	Impulse test generators	X		5	N/A
D.2	Antenna interface test generator	5	~		N/A
D.3	Electronic pulse generator				N/A

E	TEST CONDITIONS FOR EQUIPMENT CONTAIN	NING AUDIO AMPLIFIERS	P
E.1	Audio amplifier normal operating conditions	X A X	N/A
	Audio signal voltage (V)	A St	
	Rated load impedance (Ω):	Str.	
E.2	Audio amplifier abnormal operating conditions	E (Р

			•
F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND	INSTRUCTIONAL SAFEGUARDS	Р
F.1	General requirements		Р
- Artic	Instructions – Language	Instructions in English arereviewed.	_
F.2	Letter symbols and graphical symbols		Р
F.2.1	Letter symbols according to IEC60027-1		P P
F.2.2	Graphic symbols IEC, ISO or manufacturer specific		P
F.3	Equipment markings		Р
F.3.1	Equipment marking locations		Р
F.3.2	Equipment identification markings		Р
F.3.2.1	Manufacturer identification:	See copy of marking plate	

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Clause	Requirement + Test	Result - Remark	Verdict	
F.3.2.2	Model identification:	See copy of marking plate	_	
F.3.3	Equipment rating markings	No means for direct connection to the mains, no need to mark any electrical rating	N/A	
F.3.3.1	Equipment with direct connection to mains		N/A	
F.3.3.2	Equipment without direct connection to mains	No means for direct connection to the mains	N/A	
F.3.3.3	Nature of supply voltage		_	
F.3.3.4	Rated voltage:		_	
F.3.3.4	Rated frequency	· · · ·		
F.3.3.6	Rated current or rated power	*		
F.3.3.7	Equipment with multiple supply connections	A ST	N/A	
F.3.4	Voltage setting device	<u> </u>	N/A	
F.3.5	Terminals and operating devices		N/A	
F.3.5.1	Mains appliance outlet and socket-outlet markings	No mains appliance outlet.	N/A	
F.3.5.2	Switch position identification marking	Not such switch.	N/A	
F.3.5.3	Replacement fuse identification and rating markings	- Still	N/A	
F.3.5.4	Replacement battery identification marking :		N/A	
F.3.5.5	Terminal marking location	A S	N/A	
F.3.6	Equipment markings related to equipment classification	A AN	N/A	
F.3.6.1	Class I Equipment	<u> </u>	N/A	
F.3.6.1.1	Protective earthing conductor terminal	F	N/A	
F.3.6.1.2	Neutral conductor terminal		N/A	
F.3.6.1.3	Protective bonding conductor terminals		N/A	
F.3.6.2	Class II equipment (IEC60417-5172)	7 7	N/A	
F.3.6.2.1	Class II equipment with or without functional earth	*	N/A	
F.3.6.2.2	Class II equipment with functional earth terminal marking		N/A	
F.3.7	Equipment IP rating marking:	4		
F.3.8	External power supply output marking	* *	N/A	
F.3.9	Durability, legibility and permanence of marking	Marking is considered to be legible and easily discernible. See also the following details.	Р	

	IEC/EN 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict	
F.3.10	Test for permanence of markings	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge. After each test, the marking	P	
		remained legible.		
F.4	Instructions		Р	
	a) Equipment for use in locations where children not likely to be present - marking	at ste ste	N/A	
4	b) Instructions given for installation or initial use	2	Р	
	c) Equipment intended to be fastened in place		N/A	
7	d) Equipment intended for use only in restricted access area	the star	N/A	
S.C.	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1	A C A	N/A	
	f) Protective earthing employed as safeguard	*	N/A	
* -	g) Protective earthing conductor current exceeding ES 2 limits	AT A A	N/A	
	h) Symbols used on equipment		Р	
	i) Permanently connected equipment not provided with all-pole mains switch	L AT	N/A	
	j) Replaceable components or modules providing safeguard function	the second	N/A	
F.5	Instructional safeguards	Instructional safeguard is not required.	N/A	
A.C.	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction	the state .	N/A	

G	COMPONENTS		Р
G.1	Switches		N/A
G.1.1	General requirements	No switches.	N/A
G.1.2	Ratings, endurance, spacing, maximum load	4	N/A
G.2	Relays		N/A
G.2.1	General requirements	No relays.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
		Result - Remark	
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power		N/A
G.2.4	Mains relay, modified as stated in G.2		N/A
G.3	Protection Devices		N/A
G.3.1	Thermal cut-offs	No thermal cut-off used.	N/A
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	+ APT APT	N/A
G.3.1.2	Thermal cut-off connections maintained and secure		N/A
G.3.2	Thermal links		N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal-links.	N/A
G.3.2.1b)	Thermal links tested as part of the equipment	C	N/A
5	Aging hours (H):	, A	_
	Single Fault Condition		
×	Test Voltage (V) and Insulation Resistance (Ω). :	2 2	
G.3.3	PTC Thermistors		N/A
G.3.4	Overcurrent protection devices	4	N/A
G.3.5	Safeguards components not mentioned in G.3.1 to	G.3.5	N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions:	(See appended Table B.4)	N/A
G.4	Connectors		N/A
G.4.1	Spacings	Not directly connected to mains	N/A
G.4.2	Mains connector configuration		N/A
G.4.3	Plug is shaped that insertion into mains socket- outlets or appliance coupler is unlikely		N/A
G.5	Wound Components		N/A
G.5.1	Wire insulation in wound components	x 2	N/A
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	L'	N/A
G.5.1.2 b)	Construction subject to routine testing	A 2	N/A
G.5.2	Endurance test on wound components	A S	N/A
G.5.2.1	General test requirements	Store I and a store of the stor	N/A
G.5.2.2	Heat run test		N/A
	Time (s):		

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Clause	Poquiromont + Test	Popult Pomork	Verdict
Clause	Requirement + Test	Result - Remark	verdict
	Temperature (°C)		
G.5.2.3	Wound Components supplied by mains		N/A
G.5.3	Transformers		N/A
G.5.3.1	Requirements applied (IEC61204-7, IEC61558- 1/-2, and/or IEC62368-1)	the star	N/A
	Position:		—
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Method of protection:		_
G.5.3.2	Insulation		N/A
X	Protection from displacement of windings	+ 2 4	_
G.5.3.3	Overload test:		N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding Temperatures testing in the unit		N/A
G.5.3.3.3	Winding Temperatures - Alternative test method	~	N/A
G.5.4	Motors	, A	N/A
G.5.4.1	General requirements		N/A
L.	Position:	21 2	
G.5.4.2	Test conditions		N/A
G.5.4.3	Running overload test	. 2	N/A
G.5.4.4	Locked-rotor overload test		N/A
L <	Test duration (days):	X A X	
G.5.4.5	Running overload test for d.c. motors in secondary circuits	At A	N/A
G.5.4.5.2	Tested in the unit	6	N/A
	Electric strength test (V)		
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h):		N/A
X	Electric strength test (V):		_
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits		N/A
G.5.4.6.2	Tested in the unit	19 5	N/A
A	Maximum Temperature:	6	N/A
Str.	Electric strength test (V):	A S	N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h):	At AN	N/A
1×	Electric strength test (V):	2	N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
		Result - Remain	
G.5.4.9	Series motors		N/A
	Operating voltage		—
G.6	Wire Insulation	<u>s'</u>	N/A
G.6.1	General		N/A
G.6.2	Solvent-based enamel wiring insulation		N/A
G.7	Mains supply cords	<u> </u>	N/A
G.7.1 🥄	General requirements	Not directly connected to mains	N/A
	Туре		—
	Rated current (A)		_
~	Cross-sectional area (mm ² ), (AWG):	At a	_
G.7.2	Compliance and test method		N/A
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	4	N/A
G.7.3.2	Cord strain relief	, t	N/A
G.7.3.2.1	Requirements		N/A
.L	Strain relief test force (N):	5 8	_
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		_
G.7.3.2.4	Strain relief comprised of polymeric material	*	N/A
G.7.4	Cord Entry:	K Z	N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Mass (g)	L N	_
<u> </u>	Diameter (m):		
	Temperature (°C)		
G.7.6	Supply wiring space	* ~	N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors		N/A
G.8.1	General requirements	<b>~</b>	N/A
G.8.2	Safeguard against shock	* *	N/A
G.8.3	Safeguard against fire	* 5	N/A
G.8.3.2	Varistor overload test:		N/A
G.8.3.3	Temporary overvoltage		N/A
G.9	Integrated Circuit (IC) Current Limiters		N/A

	IEC/EN 62368-		N/ 5
Clause	Requirement + Test	Result - Remark	Verdict
G.9.1 a)	Manufacturer defines limit at max. 5A.	No IC current limiter provided within the equipment.	N/A
G.9.1 b)	Limiters do not have manual operator or reset		N/A
G.9.1 c)	Supply source does not exceed 250 VA:		
G.9.1 d)	IC limiter output current (max. 5A):	1 1 2	
G.9.1 e) 📈	Manufacturers' defined drift:	N 2	_
G.9.2 🔷	Test Program 1		N/A
G.9.3	Test Program 2		N/A
G.9.4	Test Program 3	F 2 6	N/A
G.10	Resistors		N/A
G.10.1	General requirements		N/A
G.10.2	Resistor test	A 4 8	N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable		N/A
G.10.3.1	General requirements		N/A
G.10.3.2	Voltage surge test	2 2	N/A
G.10.3.3	Impulse test	L. C.	N/A
G.11	Capacitor and RC units	4 7	N/A
G.11.1	General requirements		N/A
G.11.2	Conditioning of capacitors and RC units		N/A
G.11.3	Rules for selecting capacitors		N/A
G.12	Optocouplers		N/A
	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results)	t stat	N/A
	Type test voltage Vini:		
4	Routine test voltage, Vini,b:		
G.13	Printed boards		P
G.13.1	General requirements		Р
G.13.2	Uncoated printed boards		P
G.13.3	Coated printed boards	1	N/A
G.13.4	Insulation between conductors on the same inner surface	At a star of	N/A
d t	Compliance with cemented joint requirements (Specify construction)	AT D	
G.13.5	Insulation between conductors on different surfaces	At At A	N/A

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	IEC/EN 62368-7		4
Clause	Requirement + Test	Result - Remark	Verdict
	Distance through insulation:	(See appended table 5.4.4.5)	N/A
1	Number of insulation layers (pcs)	A 5	
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2a)	Thermal conditioning		N/A
G.13.6.2b)	Electric strength test	C 4	N/A
G.13.6.2c)	Abrasion resistance test		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements	~ ~ ~	N/A
G.15	Liquid filled components	t.	N/A
G.15.1	General requirements		N/A
G.15.2	Requirements		N/A
G.15.3	Compliance and test methods		N/A
G.15.3.1	Hydrostatic pressure test		N/A
G.15.3.2	Creep resistance test		N/A
G.15.3.3	Tubing and fittings compatibility test	5. 5	N/A
G.15.3.4	Vibration test	L.	N/A
G.15.3.5	Thermal cycling test	+ 7	N/A
G.15.3.6	Force test		N/A
G.15.4	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)	the states	N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	No such ICX provided within the equipment.	N/A
b)	Impulse test using circuit 2 with Uc = to transient voltage:	at what	N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes		N/A
C2)	Test voltage:	*	—
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer	with with	N/A
D2)	Capacitance:		
D3)	Resistance:		
н	CRITERIA FOR TELEPHONE RINGING SIGNAL	S	N/A
H.1	General	<b>4</b>	N/A
H.2	Method A		N/A
Н.3	Method B		N/A

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Clause	IEC/EN 62368-		المرابع الم
Clause	Requirement + Test	Result - Remark	Verdict
H.3.1	Ringing signal		N/A
H.3.1.1	Frequency (Hz)		
H.3.1.2	Voltage (V)		_
H.3.1.3	Cadence; time (s) and voltage (V)		
H.3.1.4	Single fault current (mA):		_
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with		N/A
H.3.2.2	Tripping device	7 7 7	N/A
H.3.2.3	Monitoring voltage (V)		_
J	INSULATED WINDING WIRES FOR USE WITHO	UT INTERLEAVED INSULATION	N/A
	General requirements	X	N/A
к	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)		N/A
K.7.2	Overload test, Current (A)		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A
L	DISCONNECT DEVICES		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A

	IEC/EN 62368-		
Clause	Requirement + Test	Result - Remark	Verdict
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
М	EQUIPMENT CONTAINING BATTERIES AND T	HEIR PROTECTION CIRCUITS	Р
M.1	General requirements		Р
M.2	Safety of batteries and their cells		Р
M.2.1	Requirements		Р
M.2.2	Compliance and test method (identify method) :	Approved battery used	Р
M.3	Protection circuits		Р
M.3.1	Requirements		Р
M.3.2	Tests		Р
	- Overcharging of a rechargeable battery		Р
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		Р
M.3.3	Compliance:	After above test have not created a hazard in the meaning of this standard	Р
M.4	Additional safeguards for equipment containing secondary lithium battery		Р
M.4.1	General		Р
M.4.2	Charging safeguards		Р
M.4.2.1	Charging operating limits		Р
M.4.2.2a)	Charging voltage, current and temperature:		_
M.4.2.2 b)	Single faults in charging circuitry		
M.4.3	Fire Enclosure	Battery output: PS1, no fire enclosure required	Р
M.4.4	Endurance of equipment containing a secondary lithium battery		Р
M.4.4.2	Preparation		Р
M.4.4.3	Drop and charge/discharge function tests		Р
	Drop		Р
	Charge		Р
	Discharge		Р
M.4.4.4	Charge-discharge cycle test		Р
M.4.4.5	Result of charge-discharge cycle test		Р
M.5	Risk of burn due to short circuit during carrying	See appended table B.4	Р

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	IEC/EN 62368-		
Clause	Requirement + Test	Result - Remark	Verdict
M.5.1	Requirement		Р
M.5.2	Compliance and Test Method (Test of P.2.3)		Р
M.6	Prevention of short circuits and protection from other effects of electric current	See appended table B.4	Р
M.6.1	Short circuits		Р
M.6.1.1	General requirements		Р
M.6.1.2	Test method to simulate an internal fault		Р
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method):		N/A
M.6.2	Leakage current (mA):		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume Vz (m ³ /s):		
M.8.2.3	Correction factors:		
M.8.2.4	Calculation of distance <i>d</i> (mm):		_
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)	Provided the instructions includebattery charging, storage and transportation, and disposal and recycling.	Ρ
N	ELECTROCHEMICAL POTENTIALS		N/A
	Metal(s) used		
0	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	N/A
	Figures O.1 to O.20 of this Annex applied		

-	SAFEGUARDS AGAINST ENTRY OF FOREIGN ( NTERNAL LIQUIDS	OBJECTS AND SPILLAGE OF	Р
P.1 G	General requirements	No openings to the internal circuits	Р

1	IEC/EN 62368-7		
Clause	Requirement + Test	Result - Remark	Verdict
P.2.2	Safeguards against entry of foreign object	No safeguards requirement.	N/A
	Location and Dimensions (mm):		
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard):		N/A
P.3	Safeguards against spillage of internal liquids	No internal liquids.	N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
P.4	Metallized coatings and adhesive securing parts	No metallized coatings or adhesive securing parts.	N/A
P.4.2 a)	Conditioning testing		N/A
	Tc (°C):		
	Tr (°C):		
	Ta (°C):		
P.4.2 b)	Abrasion testing:		N/A
P.4.2 c)	Mechanical strength testing:		N/A
Q	CIRCUITS INTENDED FOR INTERCONNECTION	WITH BUILDING WIRING	N/A
Q.1	Limited power sources		N/A
Q.1.1 a)	Inherently limited output		N/A
Q.1.1 b)	Impedance limited output		N/A
	- Regulating network limited output under normal operating and simulated single fault condition		N/A
Q.1.1 c)	Overcurrent protective device limited output		N/A
Q.1.1 d)	IC current limiter complying with G.9		N/A
Q.1.2	Compliance and test method		N/A
Q.2	Test for external circuits – paired conductor cable		N/A
	Maximum output current (A)		
	Current limiting method:		

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	IEC/EN 62368-1		6
Clause	Requirement + Test	Result - Remark	Verdict
R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General requirements		N/A
R.2	Determination of the overcurrent protective device and circuit		N/A
R.3	Test method Supply voltage (V) and short-circuit current (A)).		N/A
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material:		_
	Wall thickness (mm):		
	Conditioning (°C)		
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material:		—
	Wall thickness (mm):		
	Conditioning (°C)		
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material:		—
	Wall thickness (mm):		
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material:		
	Wall thickness (mm):		
	Conditioning (test condition), (°C):		

(	IEC/EN 62368-		
Clause	Requirement + Test	Result - Remark	Verdic
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A
	After every test specimen was not consumed completely		N/A
	After fifth flame application, flame extinguished within 1 min		N/A
т	MECHANICAL STRENGTH TESTS		Р
T.1	General requirements		Р
T.2	Steady force test, 10 N		N/A
Т.3	Steady force test, 30 N		N/A
Т.4	Steady force test, 100 N	(See appended table T.4)	Р
T.5	Steady force test, 250 N		N/A
Т.6	Enclosure impact test		N/A
	Fall test	(See appended table T.6)	N/A
	Swing test		N/A
Т.7	Drop test:	(See appended table T.7)	Р
T.8	Stress relief test:	(See appended table T.8)	Р
Т.9	Impact Test (glass)	Not applicable.	N/A
T.9.1	General requirements		N/A
T.9.2	Impact test and compliance		N/A
	Impact energy (J)		
	Height (m):		
T.10	Glass fragmentation test:	No glass.	N/A
T.11	Test for telescoping or rod antennas		N/A
	Torque value (Nm):		_
U	MECHANICAL STRENGTH OF CATHODE RAY T AGAINST THE EFECTS OF IMPLOSION	UBES (CRT) AND PROTECTION	N/A
U.1	General requirements	No CRTs.	N/A
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen		N/A
5		<u>x</u> x	5
V	DETERMINATION OF ACCESSIBLE PARTS (FIN	GERS, PROBES AND WEDGES)	N/A
V.1	Accessible parts of equipment	The equipment for building-in. It should be evaluated for the final system.	N/A
V.2	Accessible part criterion	See above.	N/A
			L



	Kr C	IEC/EN 62368-	1 🖉 🤜		X
Clause	Requirement + Test		Result - Remark	X	Verdict

4.1.2	TABLE:	List of critical con	nponents			Р
Object / part	No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
PCB		Interchangeable	Interchangeable	Min. V-1, 130°C	UL 796	UL
Plastic enclos charging cas earphone		SABIC INNOVATIVE PLASTICS US L L C	FXD141R(GG)( f2)	HB, 70°C	UL 94	UL E121562
Rechargeabl Battery in cha base		Dongguan Mangrove New Energy Co., Ltd.	451668	550mAh, 3.7VDC	IEC/EN 62133-2	Report no.: TCT230110B 080
Rechargeabl Battery in ea		Shenzhen Hynetech Company Limited	CP1240AA	50mAh, 3.7VDC	IEC/EN 62133-2	Report no.: PN20211203 24901
Spearker		JiangSu AnLan- WK Electronics CO., LTD	TDE162NT4- 019L15	20Ω±20%, Rated input 20mW	EN 62368-1	Test with appliance

Supplementary information:

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.

²⁾ Description line content is optional. Main line description needs to clearly detail the component used for testing

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					4	
Clause	Requirement -	+ Test	Result - Remark			/erdict
4.8.4, 4.8.5	TABLE: Lithi	ium coin/button cell batteri	es mechanical tests			N/A
(The follow	wing mechanica	al tests are conducted in th	e sequence noted.)			
4.8.4.2	TABLE: Stres	s relief test		<u>k</u>	_	_
F	Part	Material	Oven Temperature	e (°C)	Comme	
			<u> </u>			¥
4.8.4.3	TABLE: Batte	ery replacement test		X	_	_
Battery par	t no			5		_
Battery Inst	tallation/withdrav	wal	Battery Installation/Remo	oval Cycle	Comr	nents
4			1	×	×	
			2	1 cr	A.C.	Ź
			3			
			4		4	
			5			
			6			
			6	~ ~		<
				× 7	A	4
STEEL	AN ^{THE}	the state of	8			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4.8.4.4	TABLE: Drop	test	8	× 6		-
4	TABLE: Drop	o test Drop Distance	8	× - 2	Obser	- vations
4.8.4.4 Impa	4		8 9 10	2	- Obser	
4	4		8 9 10 Drop No.	2	Obser	- vations
4	4		8 9 10 Drop No. 1		Obser	 vations
Impa	act Area	Drop Distance	8 9 10 Drop No. 1 2		Obser	 vations
Impa 4.8.4.5	act Area	Drop Distance	8 9 10 Drop No. 1 2 3			
Impa 4.8.4.5	act Area	Drop Distance	8 9 10 Drop No. 1 2			- -
Impa 4.8.4.5	act Area	Drop Distance	8 9 10 Drop No. 1 2 3	Im)		- -
Impa 4.8.4.5	act Area	Drop Distance	8 9 10 Drop No. 1 2 3			-
Impa 4.8.4.5 Impacts	act Area	Drop Distance	8 9 10 Drop No. 1 2 3	Im)		-
Impa 4.8.4.5 Impacts 4.8.4.6	TABLE: Impa	Drop Distance	8 9 10 Drop No. 1 2 3	A.	Comr	
Impa 4.8.4.5 Impacts 4.8.4.6	TABLE: Impa per surface	Drop Distance	8 9 10 Drop No. 1 2 3 Impact energy (N	A.	Comr	

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		IEC/	EN 62368-	1 🖉 🤜			
Clause	Requiremen	t + Test	5	Result - Remark		X	Verdict
4.8.5	TABLE: Lith	nium coin/button cell batte	eries mecha	anical test result	<u> </u>		N/A
Test	t position	Surface tested		Force (N)			ation force oplied (s)
							2
					5		
Suppleme	ntary informatio	n:					

				•					
5.2	TABLE	: Classification	of electrical energ	gy sources				Р	
5.2.2.2	<ul> <li>Steady Stat</li> </ul>	e Voltage and Cu	irrent conditions						
No.		Location (e.g. circuit designation)	Test conditions	Parameters					
	Supply Voltage			U (Vrms or Vp	k) (Apk d	l or Arms)	Hz	ES Clas	
AT I		All internal circuits	Normal	<u> </u>					
	5VDC		Abnormal					ES1 (declared)	
			Single fault –						
2		~	Normal	Jo - 2		_	L		
	3.7VDC	Battery output	Abnormal	- 2		- 4		ES1 (declared)	
			Single fault –				<u> </u>	(deciared)	
5.2.2.3	- Capacitance	Limits					1		
	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters					
No.				Capacitance, nF		Upk (V)		ES Class	
	L.	e - /	Normal	<u>_</u>		~		<u> </u>	
			Abnormal	- ²	×t-	t Ś			
		\$ <i>\$</i>	Single fault –	<u>_</u>	5				
5.2.2.4	- Single Pulse	es							
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters					
				Duration (ms)	Upk (V	ok (V) Ipk (mA)		ES Class	
		4	Normal	<u>_</u>	-		- 4		
4			Abnormal	<b>~</b> -		*	<u>_</u> - ~		
			Single fault –		¥ -	2		]	

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		<u> </u>		IEC/	EN 62368-1		Remark	4	4	
Clause	lause Requirement + Test			<u> </u>	Verdict					
5.2.2.5	- Rep	etitive F	Pulses	-						
No.	Sup		Location (e.g.	Test conditions		ES Clas				
Volta		age	circuit designation)	rest conditions	Off time	(ms)	Upk (V)	lpk (mA)	ES Cia	
			at .	Normal			×			
	1		<u> </u>	Abnormal				-		
				Single fault –						
Test Co Supple		Nor Abn	mal – ormal - mation: SC=Shor	t Circuit, OC=Sh	ort Circuit		AT OF			
5.4.1.4 6.3.2, 9 B.2.6		- A	E: Temperature	×	R.C.	4			Р	
Supply voltage			oply voltage (V) .		See below					
Ai				ent T _{min} (°C):						
1	Ambient T _{max} (°C):				4	45				
	Tma (°C):				2					
Maximum measured temperature T of part/at:				Allowed Tmax (°0						
For shows the set				Condition 1	Co	ndition 2	Condition 3			
For charge base: PCB near U1					73.2	•	69.0		130	
					57.2		53.9	~	Ref.	
Battery body			~		65.9	_	60.1		105	
Battery wire					59.2		57.6		Ref.	
Enclosure inside near battery Ambient				45.0		45.0	~~~			
		erature			40.0					
Touch Temperatures (Clause 9)					33.1		32.2		48	
Enclosure outside near battery Enclosure outside near U1					36.2		34.5	$\overline{\boldsymbol{\zeta}}$	40	
Enclos					25.0	4	25.0		40	
	ot		For earbuds:				20.0		$\bigcirc$ -	
Ambier		5			- Č					
Ambier For ear	rbuds:		~		55.0		<b>–</b> 1	52 7	120	
Ambier For ear PCB ne	rbuds: ear U3			A THE	55.0		F- 4	52.7	130 Rof	
Ambier	rbuds: ear U3 ⁄ body		- F	R AL	55.0 52.7 52.9	2		52.7 50.3 50.2	130 Ref. 105	

Report No. STS230130001001E IEC/EN 62368-1 Verdict Clause Requirement + Test Result - Remark 45.0 45.0 Ambient Touch Temperatures (Clause 9) 31.8 29.4 48 Enclosure outside near U3 --25.0 25.0 Ambient --t₁ (°C) t₂ (°C) Allowed Insulation R₁ (Ω) R₂ (Ω) T (°C) Temperature T of winding: T_{max} (°C) class -------------------------------

Supplementary information:

Note 1: Tma should be considered as directed by appliable requirement

Note 2: Tma is not included in assessment of Touch Temperatures (Clause 9);

Note 3: Condition 1: Charged case and earbuds same time via USB port of DC5V, with case battery at fully discharged capacity and earbuds battery at fully discharged capacity.

Condition 2: Charged case only with fully discharged battery via USB port of DC5V.

Condition 3: Fully charged earbuds playing 1k Hz sinewave signal with max sound. (battery 4.2V)

			N/A
:			
Manufacturer/t rademark		T softening (°C)	
	4.	-*	
		Manufacturer/t	Manufacturer/t T softening (°C) rademark

5.4.1.10.3 TABLE: Ball pressure test of thermoplastics						
Allowed impression diameter	(mm):	≤ 2 mm		_		
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression dia	meter (mm)		
	>	A		ا		
Supplementary information:		4	st.			

5.4.2.2, TABLE: Minimum Clearances/Creepage distance						N/A		
5.4.3							- 2	7
•	cl) and creepage ) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm)²	Required ³ cr (mm)	cr (mm)
	X		t	<u> </u>				
Supplementa	ary information:				X		4	X

IEC/EN 62368-1							
Clause	Requirement + Test		Result - Remark	6	Verdict		
5.4.2.3	TABLE: Minimum Cle	earances distances using	required withstand v	voltage	N/A		
1	Overvoltage Category	(OV)		:	-		
	Pollution Degree		<u></u>	:			
Clearance distanced between:		Required withstand voltage	Required cl (mm)	Measu	red cl (mm)		
			<u> </u>				
Suppleme N/A	entary information:	at and	, t	A.	A.C.		

5.4.2.4 TABLE: Clearances based on electric strength test					
Test voltage applied between:	Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.	Breakd Yes /		
	- 0		<u> </u>		
	A- 2		-	<u> </u>	
Supplementary information:	5	.1			

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Distance through insulation measurements						
Distance th insulation d		Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)	
<u> </u>			< - \		x - x		
Supplement	tary informatior		<u>.</u>	4		4	

5.4.9	TABLE: Electric strength tests		the state	N/A
Test voltag	e applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
		Ż		<u> </u>
Supplemen	tary information:			

5.5.2.2 TABLE: St	ored discharg	je on capacito	ors		N/A
Supply Voltage (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Classification
		Æ	<u> </u>		

			Report No. S	TS230130001001	E
	Ser 6	IEC/EN 6236	8-1	·	X
Clause	Requirement + Test		Result - Remark		Verdict
Suppleme	entary information:			* *	
X-capacit	ors installed for testing are:				
🗌 bleedii	ng resistor rating:				
	see above				
Notes:					
A. Test Lo	ocation:				
Phase to	Neutral; Phase to Phase; Phase	e to Earth; and/or Ne	utral to Earth		
B. Opera	ting condition abbreviations:				
N – Norm	al operating condition (e.g., nor	mal operation, or ope	en fuse); S –Single	fault condition	<u> </u>
	7 24			2	

5.6.6.2 TABLE: Resistance of protective conductors and terminations						
						sistance (Ω)
-	ک		- 1 2			
Supplementary information:	*	Kat.	2		A	

5.7.2.2, TABLE: Earthed accessible conductive part 5.7.4			
tage		_	
	Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7	Touch current (mA)	
t stat st	14	t,	
	2*		
- 25/07 - 2	3		
	5	4	
Store Store Store	8	× .	
	R	tage: Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7 1 2* 3 4 5 6	

Information:

N/A

Notes:

[1] Supply voltage is the anticipated maximum Touch Voltage

[2] Earthed neutral conductor [Voltage differences less than 1% or more]

[3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3

[4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.

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IEC/EN 62368-1						
Clause	Requirement + Test	Result - Remark	Verdict			
[5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.						

6.2.2 T	ABLE: Electrical po	wer sources (PS	) measurements for	· classification	P
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s*)	PS Classification
Battery pack		Power (W) :	6.30	- *	S
output (charging	Normal	VA (V):	3.54	A - 5	PS1
case)	4	IA (A):	1.78	-	
Battery cell		Power (W) :	9.87	-	X X
(charging	Normal	VA (V):	2.14	x -x	PS1
case)	Str L	IA (A):	4.61	-	
A.C.		Power (W) :	1.89	-	* *
Battery cell (earphone)	Normal	VA (V):	2.71		PS1
(	$\langle \mathbf{A} \rangle = \langle \mathbf{A} \rangle$	IA (A) : 0.70 -		4	

Supplementary Information:

(*) Measurement taken only when limits at 3 seconds exceed PS1 limits

SC=Short Circuit, OC=Open Circuit

<	6.2.3.1 TABLE: Determina	tion of Potential Ig	nition Sources (Ar	cing PIS)	N/A
		Open circuit voltage	Measured r.m.s		
ł		After 3 s	current	Calculated value	Arcing PIS?
5	Location	(Vp)	(Irms)	(Vp X Irms)	Yes / No
		<u> </u>	1	<b>小</b>	

Supplementary information:

An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage ( $V_P$ ) and normal operating condition rms current ( $I_{ms}$ ) is greater than 15.

6.2.3.2	TABLE: Determination of Potential Ignition Sources (Resistive PIS)									
Circuit Lo	cation (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No				
×.	- 4			4		¥ -				

Report No. STS230130001001E

	The S	IEC/EN 62368-1	X
Clause	Requirement + Test	Result - Remark	Verdict
Supplemen	tary Information:		

A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, or (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

8.5.5	TABLE: High Pressure Lamp			N/A
Description		Values	Energy Source C	lassification
Lamp type.			—	
Manufactur	er		_	
Cat no		~	_	
Pressure (c	old) (MPa)	*	MS_	
Pressure (o	operating) (MPa)	* 5 4	MS_	
Operating ti	ime (minutes)		_	
Explosion n	nethod		_	
Max particle	e length escaping enclosure (mm).:		MS_	<u>ـ</u>
Max particle	e length beyond 1 m (mm)		MS_	
Overall resu	ult			4
Supplemen	tary information:			

B.2.5	TABLE: Inp	ut test		~ ~		+ _		N
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No	I fuse (A)	Condition	/status
4 THE	t.	,t	S. Cont	4		4	Condition Case batt charging o 0.352A	ery
5VDC	0.5	<u> </u>		AT THE	4	-	Left earbu charging o 0.039A	
dt.			~	A.	AN FEEL	4	Right earb charging o 0.039A	oud battery current:

			IEC	/EN 62368-	1			
Clause	Requirement	t + Test		5	Result - Rem	nark	X	Verdict
5VDC	0.5	<u> </u>	- t 4	¢ -	stet - s		Condition Case batte charging c 0.494A	ery
4.2VDC	0.010*2	the second	1	* *			Condition Left earbu dischargin 0.010A Right earb	d battery g current: ud battery
A COL	- And -		- Article		ふ よ 太		dischargin 0.010A Condition Case batte	4:
4.2VDC	0.124	Rat.	AN THE	Artic	- Aste	,tt	dischargin 0.124A Left earbu charging c 0.010A	d battery
	A.C.	~		-Stat	4	4	Right earb charging c 0.010A	

Report No. STS230130001001E

Supplementary information:

1.Condition 1: Charged case and earbuds same time via USB, with case battery at fully discharged capacity and earbuds battery at fully discharged capacity.

2.Condition 2: Charged case only with fully discharged battery via USB.

3.Condition 3: Fully charged earbuds playing 1k Hz sinewave signal with max sound.

4. Condition 4: Fully charged case load with fully discharged earbuds.

B.3	TABLE: Ab	normal oper	rating condit	tion tests	X				Р
Ambient ter	mperature (°C	C)			:	23.	5	.L	_
Power source for EUT: Manufacturer, model/type, output rating . : -								10	- Z
Compone nt No.	Abnormal Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse currer (A)	nt,	T- couple	Temp. (°C)	Observatio n
Right speaker	SC	4.2VDC	10mins						Right speaker no voice, no damage, no hazards.



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	71× 4	IEC/EN 62368-7		X
Clause	Requirement + Test	<b></b>	Result - Remark	Verdict
	ntary information:			2

Test table is provided to record abnormal and fault conditions for all applicable energy sources including Thermal burn injury. Column "Abnormal/Fault." Specify if test condition by indicating "Abnormal" then the condition for a Clause B.3 test or "Single Fault" then the condition for Clause B.4.

No igntion during and after all tests.

B.4	TABLE: Fa	ult condition t	ests			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Р
Ambient tempera	ature (°C)				:	24.0-2	25.0	,L		_
Power source for	r EUT: Manut	facturer, model	/type, outpu	ut rating	.:	See c	over page f	or details		—
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.		ise nt, (A)	T-couple	Temp. (°C)	0	bservation
Fo earbud: suppl	lied by fully c	harged battery	, playing 1k	Hz sine	e wave	signal	with max s	ound.		
U1 pin6-18	SC	4.2VDC	10mins		-	-			ope exc spe voi Re no no	coverable, damaged, hazard.
U1 pin6-19	SC	4.2VDC	10mins		-	_			ope exc spe voi Re no	rmal eration cept eaker no ce. coverable, damaged, hazard.
U1 pin6-7	SC	4.2VDC	10mins		-	-			nor ope dar	it was mal eration, no maged, no zard.
C4	SC	4.2VDC	10mins		-	-			ope exc spe voi Re no	rmal eration cept eaker no ce. coverable, damaged, hazard.



Report No. STS230130001001E IEC/EN 62368-1 Verdict Requirement + Test Result - Remark Clause After the test, no chemical Battery B- and leaking, no 4.2VDC SC 10mins emission of B+ flame, no hazards. For earbud: Fully charged case discharging by load with fully discharged earbuds. Unit shut down. Battery no fire, no U1 pin6-7 SC 4.2VDC 10mins leaks, no explosion, no hazards. Unit was normal 5VDC Battery B- to P-10mins operation, no SC damaged, no hazard. For charging case: Fully charged case discharging by load with fully discharged earbuds. Unit was normal U1 pin2-8 SC 5VDC 10mins operation, no damaged, no hazard. Unit was normal U1 pin2-9 SC 5VDC 10mins operation, no damaged, no hazard. Unit was normal Battery B- to P-5VDC 10mins SC operation, no damaged, no hazard. For charging case: Charging fully discharged case only via USB Unit was normal U2 pin1-2 SC 5VDC 7hrs operation, no damaged, no hazard. Unit was normal U1 pin1-12 SC 5VDC 10mins operation, no damaged, no hazard.

Report No. STS230130001001E IEC/EN 62368-1 Verdict Requirement + Test Result - Remark Clause Unit was normal Battery B- to P-5VDC 10mins operation, no SC damaged, no hazard. Supplementary information: 1. SC - Short Circuit; OC - Open Circuit; OL- Overload; 2. No ignition during and after all tests; Annex M **TABLE: Batteries** Ρ The tests of Annex M are applicable only when appropriate battery data is not available Is it possible to install the battery in a reverse polarity position? ..... **Rechargeable batteries** Non-rechargeable batteries Discharging Un-Charging Discharging Reversed charging intentional Manuf. Manuf. Manuf. Manuf. Meas. Meas. Meas. Meas. charging current Specs. current Specs. current Specs. current Specs. For charging case: Max. current 494mA 550mA 124mA 550mA during normal condition 250mA 550mA Max. current 504mA 550mA during fault (U1 (U1 condition pin1-2 pin2-8 SC) SC) For earbud: 100mA 10mA 100mA Max. current 39mA during normal condition Max. current 0mA 100mA 57mA 100mA during fault (U1 (U1 condition pin6-7 pin6-18 SC) SC) Test results: Verdict - Chemical leaks Ρ Р - Explosion of the battery - Emission of flame or expulsion of molten metal Ρ Р Electric strength tests of equipment after completion of tests Supplementary information:

Report No. STS230130001001E

			IEC	/EN 62368-	1				
Clause	Requiren	nent + Test		5	Resul	t - Remar	k	¥	Verdict
Annex M.4	TABLE: batteries		afeguards for ec	uipment co	ontainir	ng secon	dary lithium		Р
	ry/Cell	Test	conditions		Measurements		6	Observation	
Ν	lo.					I (A)	Temp (C)		
For battery	of charging	g case:							
4	1	Normal	At St	4.20		0.494	37.2		lamage, no hazard
Å	2	Abnormal	(after drop test)	4.20	it.	0.494	37.3		lamage, no hazard
- C	3 Single fai pin 1-2		III –SC <del>/OC</del> - U1	4.20		0.504	37.9		lamage, no hazard
Supplemen	tary Inform	ation: SC = s	short circuit.	<u>ل</u> ر			7	5.	
Battery identificat	/	Charging at T _{lowest} (°C)	Observation		Т	rging at ^{highest} (°C)	Observation		on
Li-ion bat	tery	0	When the temperature of the battery body reaches 0°C, charge current: 0.494A		4	45	When the temperature of battery body reaches 450 charge current: 0A		
For battery	of earbud:	K		L. L.					
* *	1	Normal	xt -	4.2	14 (C)	0.039	32.7		lamage, no hazard
	2	Abnormal	(after drop test)	4.2		0.04	32.8		lamage, no hazard
Lark	3	Single fau pin 6-7	ilt –SC <del>/OC-</del> U1	4.2	*	0	32.6		lamage, no hazard
Supplemen	tary Inform	ation: SC = s	short circuit.				7		
Battery identificat			Т	rging at ^{highest} (°C)	st		on		
Li-ion bat	tery	0	When the temporthe battery body 0°C, charge cur 0.039A	/ reaches		45	When the temperature of battery body reaches 45.0 charge current:0A		

temperature under normal operating conditions, abnormal operating conditions or single fault conditions.

### Report No. STS230130001001E

		IEC/	'EN 62368-1				
Clause	Requirement + Test		Re	esult - Remark	X	Verdict	
Annex Q.1	TABLE: Circuits int	ended for interco	onnection with	building wiring	g (LPS)	N/A	
Note: Meas	ured UOC (V) with all lo	ad circuits discor	nected:	+ 5			
Output	Components	U _{oc} (V)	I _{sc} (A)			S (VA)	
Circuit			Meas.	Limit	Meas.	Limit	
				-	7		
Supplement	tary Information:	+	+ 4	4	1	, et	

T.2, T.3, T.4, T.5	E: Steady force te	est	K Ch	4 4	Р
Part/Location	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Top of enclosure	Plastic	-	100	5	No damaged, no hazard
Bottom of enclosure	Plastic	A CAR	100	5	No damaged, no hazard
Side of enclosure	Plastic	-	100	5	No damaged, no hazard
Supplementary info	ormation:		~		

Т.6, Т.9	TAB	LE: Impact tests				1	N/A
Part/Locat	ion	Material	Thickness (mm)	Vertical distance (mm)		Observation	
					J'V		
		4		1		. [	
Supplementa	ary inf	ormation:	+	5			7

T.7 TABL	E: Drop tests			₽	
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation	
Charging base	* *	A.C.	4		
Top enclosure	Plastic	Min. 1.6	1000	No damage,no hazard	
Side enclosure	Plastic	Min. 1.6	1000	No damage,no hazard	
bottom enclosure	Plastic	Min. 1.6	1000	No damage,no hazard	
Earbuds	A C				
Top enclosure	Plastic	Min. 1.6	1000	No damage,no hazard	
Side enclosure	Plastic	Min. 1.6	1000	No damage,no hazard	

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IEC/EN 62368-1							
Clause	Require	ement + Test		5	Result - Rem	ark	Verdict
bottom enclosure Plastic		Min. 1.6 1000 No dar		No damage,no	hazard		
Supplemer	ntary inform	mation:					.L
				i de la compañía de l			

T.8	TAB	LE: Stress relief to	est 🔶		×	P
Part/Locat	ion	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Charging ca	se	~ ~ ~			X	
Whole ur	ņit	plastic	Min. 1.5	70	57	No damage, no hazard
Earbuds		<		<u> </u>		
Whole ur	nit	plastic	Min. 1.5	70	7	No damage, no hazard
Supplement	ary inf	ormation:		Å		2 2



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4		Attachment 1	1 X 7	~
Clause	Requirement + Test		Result - Remark	Verdict

				TO TEST REPC 62368-1			
(Audio/			DIFFEREN	CES AND NATIO		RENCES : Safety requirem	ents)
Differences a	ccording to	EN	I 62368-1:2	014+A11:2017	4	1	
Attachment F	Form No	EL	J_GD_IEC6	2368_1D_II	A.		
Attachment (	Driginator	: Ne	emko AS				
Master Attac	hment	: Da	ite 2021-02	-04			
		tem for Confo ights reserved		ng and Certifica	ation of Elec	trical Equipmen	t (IECEE)
L.	CENELEC C		DIFICATIO	NS (EN)			P
		oclauses, notes 62368-1:2014		ures and annexes I "Z".	s which are a	dditional to	Р
CONTENTS	Add the follo	wing annexes:	4	<u></u>	4	- -	
	Annex ZA (n	ormative)		ative references neir correspondin			
	Annex ZB (n		Speci	al national condit			Р
	Annex ZC (ir Annex ZD (ir		IEC a	riations nd CENELEC co	de designatio	ons for flexible	
<i>. . . . . . . . . .</i>	Delete all the	"country" pote	cords	erence document		1:2014)	4
		the following lis				1.2014)	
	0.2.1	Note	1	Note 3	4.1.15	Note	
	4.7.3	Note 1 and 2	5.2.2.2	Note	5.4.2.3.2.2 Table 13	Note c	
	5.4.2.3.2.4	Note 1 and 3	5.4.2.5	Note 2	5.4.5.1	Note	Р
	5.5.2.1	Note	5.5.6	Note	5.6.4.2.1	Note 2 and 3	
	5.7.5	Note	5.7.6.1	Note 1 and 2	10.2.1 Table 39	Note 2, 3 and 4	
	10.5.3	Note 2	10.6.2.1	Note 3	F.3.3.6	Note 3	
	For special r	national condition	ons, see Ar	nex ZB.			Р
	Add the follo	wing note:					-

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		Attachment 1	
Clause	Requirement + Test	Result - Remark	Verdict
,		<u> </u>	At Siv
4.Z1	Add the following new subcla		
	To protect against excessive and earth faults in circuits co <b>mains</b> , protective devices sh as integral parts of the equip building installation, subject t and c):	nnected to an a.c. nall be included either ment or as parts of the	* frit
	a) except as detailed in b) an devices necessary to comply of B.3.1 and B.4 shall be incl equipment;	/ with the requirements	- STIT
	b) for components in series v the equipment such as the su coupler, r.f.i. filter and switch fault protection may be provid devices in the building install	upply cord, appliance , short-circuit and earth ded by protective	N/A
	c) it is permitted for <b>pluggab</b> or <b>permanently connected</b> dedicated overcurrent and sh the building installation, provi protection, e.g. fuses or circu specified in the installation in	equipment, to rely on nort-circuit protection in ided that the means of uit breakers, is fully	
et .	If reliance is placed on protect installation, the installation in state, except that for <b>plugga</b> the building installation shall providing protection in accord the wall socket outlet.	structions shall so ble equipment type A be regarded as	1 the star
5.4.2.3.2.4	Add the following to the end	of this subclause:	
4	The requirement for intercon <b>circuit</b> is in addition given in		N/A
0.2.1	Add the following to ^{c)} and ^{d)} For additional requirements, see 10.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
Jiause	Requirement + Test	Result - Remark	Verdict
10.5.1	Add the following after the first paragraph:		N/A
10.0.1	For RS 1 compliance is checked by measur	rement	
	under the following conditions:	A 5	
	In addition to the normal operating condition		
	controls adjustable from the outside by hand any object such as a tool or a coin, and thos		
	internal adjustments or presets which are no		
	locked in a reliable manner, are adjusted so	as to	
	give maximum radiation whilst maintaining a intelligible picture for 1 h, at the end of which		
	measurement is made.	i uie	
	NOTE Z1 Soldered joints and paint lockings are example	ples of	
	adequate locking.		
	The dose-rate is determined by means of a radiation monitor with an effective area of 10	0 cm². at	
	any point 10 cm from the outer surface of th		
	apparatus.		<u> </u>
	Moreover, the measurement shall be made fault conditions causing an increase of the h		
	voltage, provided an intelligible picture is		
	maintained for 1 h, at the end of which the		
	measurement is made.		
	For RS1, the dose-rate shall not exceed 1 µ taking account of the background level.		
	NOTE Z2 These values appear in Directive 96/29/Eura	atom of 13	
10.6.1	May 1996.		N1/A
10.0.1	Add the following paragraph to the end of the subclause:		N/A
	EN 71-1:2011, 4.20 and the related tests me	ethods	
, 4	and measurement distances apply.		
10.Z1	Add the following new subclause after 10.6.	.5.	N/A
	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz		
	The amount of non-ionizing radiation is regu		· 2
	European Council Recommendation 1999/5 of 12 July 1999 on the limitation of exposure		Ť
	general public to electromagnetic fields (0 H GHz).		4
	For intentional radiators, ICNIRP guidelines	should	a feith
	be taken into account for Limiting Exposure	to	
	Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For	r hand-	
	held and body-mounted devices, attention is		al-
	to EN 50360 and EN 50566	× · · · · ·	
G.7.1	Add the following note:		N/A
	NOTE Z1 The harmonized code designations correspondence the IEC cord types are given in Annex ZD.	onding to	

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2	Attachment 1	<u> </u>
Clause	Requirement + Test Result - Remark	Verdict
Dih li sama n hu	A del the fellowing stored with	
Bibliography		
	Add the following notes for the standards indicated:	
	IEC 60130-9 NOTE Harmonized as EN 60130-9.	X
	IEC 60269-2 NOTE Harmonized as HD 60269-2.	
	IEC 60309-1 NOTE Harmonized as EN 60309-1.	
	IEC 60364 NOTE some parts harmonized in HD 384/HD 60364 serie	es.
	IEC 60601-2-4 NOTE Harmonized as EN 60601-2-4.	
	IEC 60664-5 NOTE Harmonized as EN 60664-5.	
	IEC 61032:1997 NOTE Harmonized as EN 61032:1998 (not modified).	
	IEC 61508-1 NOTE Harmonized as EN 61508-1.	
	IEC 61558-2-1 NOTE Harmonized as EN 61558-2-1.	
	IEC 61558-2-4 NOTE Harmonized as EN 61558-2-4.	
	IEC 61558-2-6 NOTE Harmonized as EN 61558-2-6.	
	IEC 61643-1 NOTE Harmonized as EN 61643-1.	
	IEC 61643-21 NOTE Harmonized as EN 61643-21.	
	IEC 61643-311 NOTE Harmonized as EN 61643-311.	
	IEC 61643-321 NOTE Harmonized as EN 61643-321.	よ て
	IEC 61643-331 NOTE Harmonized as EN 61643-331.	
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	Р
4.1.15	Denmark, Finland, Norway and Sweden	N/A
	To the end of the subclause the following is added:	
	Class I pluggable equipment type A intended for	
	connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if	
	surge suppressors are connected between the	
	network terminals and accessible parts, have a	
	marking stating that the equipment shall be	
	connected to an earthed <b>mains</b> socket-outlet.	
	The marking text in the applicable countries shall be as follows:	
	In Denmark:	
	"Apparatetsstikpropskaltilsluttesenstikkontakt med	
	jordsom giver forbindelsetilstikproppensjord."	
	In <b>Finland</b> : "Laite on	
	liitettäväsuojakoskettimillavarustettuunpistorasiaan"	
	In <b>Norway</b> : "Apparatetmåtilkoplesjordetstikkontakt"	
	In Sweden: "Apparatenskallanslutas till jordatuttag"	
4.7.3	United Kingdom	N/A
	To the end of the subclause the following is added:	
	The torque test is performed using a socket-outlet	
	complying with BS 1363, and the plug part shall be assessed to the relevant clauses of BS 1363. Also	
	see Annex G.4.2 of this annex	

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Report No. STS230130001001E

Clause	Requirement + Test		Result - Remark	Verdict
5.2.2.2	Denmark		* *	N/A
	After the 2nd paragraph add	•		
	A warning (marking <b>safegua</b>		5 <del>6</del> .	J.
	the limits of 3,5 mA a.c. or 10			-
5.4.11.1 and	Finland and Sweden	4		N/A
Annex G	To the end of the subclause	the following is added:		
	For separation of the telecor from earth the following is ap		7	
	If this insulation is solid, inclupart of a component, it shall			
	• two layers of thin sheet ma shall pass the electric streng		4	
	one layer having a distance			
	at least 0,4 mm, which shall strength test below.	pass the electric		4 ^{(v} 7
	If this insulation forms part of		4	
	component (e.g. an optocou distance through insulation r			L 2
	insulation consisting of an in			
	completely filling the casing,	so that clearances and		
	creepage distances do not		<u> </u>	
	passes the electric strength the compliance clause below			A 4
	passes the tests and inspe-		e e e e e e e e e e e e e e e e e e e	
	with an electric strength test			
	1,6 (the electric strength test			
	performed using 1,5 kV), and		7	* 3
	• is subject to routine testing during manufacturing, using	a test voltage of 1,5kV.		
	It is permitted to bridge this i		5	
	capacitor complying with EN subclass Y2.	60384-14:2005,	4	
	A capacitor classified Y3 acc			
	14:2005, may bridge this ins following conditions:	ulation under the		
		are estisfied by baying		
	the insulation requirements     a capacitor classified Y3 as			
	14, which in addition to the Y			
	an impulse test of 2,5 kV del			
	the additional testing shall I test specimens as described		ATTEN T	- <b>L</b>
	the impulse test of 2,5 kV is			
	the endurance test in EN 603 sequence of tests as describ		A ANT	4 4
5.5.2.1	Norway	1		N/A
	After the 3rd paragraph the f	ollowing is added:		X
	Due to the IT power system	used, capacitors are		
	required to be rated for the a			イート

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	Attachment 1		
Clause	Requirement + Test	Result - Remark	Verdict
		4	
5.5.6	Finland, Norway and Sweden		N/A
	To the end of the subclause the following is added:		
	Resistors used as <b>basic safeguard</b> or bridging <b>basic insulation</b> in <b>class I pluggable</b> <b>equipmenttype A</b> shall comply with G.10.1 and the test of G.10.2.	AN AND	AN THE
5.6.1	Denmark		N/A
	Add to the end of the subclause	4	~
	<ul> <li>Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment.</li> <li><i>Justification:</i></li> <li>In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.</li> </ul>	with white	- 41
5.6.4.2.1	Ireland and United Kingdom	5	N/A
	After the indent for <b>pluggable equipment type A</b> , the following is added:		4
	<ul> <li>the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.</li> </ul>	stat stat sta	
5.6.5.1	To the second paragraph the following is added:		N/A
	The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is:		
	1,25 mm ² to 1,5 mm ² in cross-sectional area.	× ×	
5.7.5	Denmark		N/A
	To the end of the subclause the following is added:		
	The installation instruction shall be affixed to the equipment if the <b>protective conductor current</b> exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	× .	Stat

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	Attachment 1			
Clause	Requirement + Test	Result - Remark	Verdict	
764	Nerwey and Sweden		NUA	
5.7.6.1	Norway and Sweden To the end of the subclause the following		N/A	
	The screen of the television distribution s			
	normally not earthed at the entrance of the and there is normally no equipotential boo system within the building. Therefore the earthing of the building installation needs isolated from the screen of a cable distribution system.	ne building nding protective s to be	ster ster	
	It is however accepted to provide the ins external to the equipment by an adapter interconnection cable with galvanic isolar may be provided by a retailer, for examp	or an tor, which	ot all a	
	The user manual shall then have the follo similar information in Norwegian and Sw language respectively, depending on in v country the equipment is intended to be	edish vhat	the state state	
	"Apparatus connected to the protective e the building installation through the main connection or through other apparatus w connection to protective earthing – and t	s ith a	At A	
	television distribution system using coax may in some circumstances create a fire	al cable, hazard.	A.C.	
	Connection to a television distribution sy therefore has to be provided through a d providing electrical isolation below a cert frequency range (galvanic isolator, see E	evice ain	ATTEN AT	
	11)" NOTE In Norway, due to regulation for CATV-insta Sweden, a galvanic isolator shall provide electrical below 5 MHz. The insulation shall withstand a diele of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	insulation 🤨 🦳 🤝	with which	
	Translation to Norwegian (the Swedish to be accepted in Norway):	ext will also		
	"Apparatersomerkoplettilbeskyttelsesjord nettpluggog/eller via annetjordtilkopletuts ogertilkoplet et koaksialbasertkabel-TV n kanforårsakebrannfare. For å unngådetteskaldetvedtilkoplingavappara TV nett installeresengalvanisk isolator mellomapparatetogkabel-TV nettet."	ett,	stat stat	
	Translation to Swedish:	× ×		
	"Apparatersomärkopplad till skyddsjord v jordatvägguttagoch/eller via annanutrustningochsamtidigtärkopplad ti nätkanivissa fall medfőra risk főr brand. Főrattundvikadettaskall vid anslutningava till kabel-TV nätgalvanisk isolator finnasmellanapparatenochkabel-TV näte	Il kabel-TV apparaten	- fight fi	

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	Poquiroment   Test	Attachment 1	Result - Remark	1/0 401:04
lause	Requirement + Test			Verdict
5.7.6.2	<b>Denmark</b> To the end of the subclause t	he following is added:	it f	N/A
	The warning (marking safegu current is required if the touch protective current exceed the	ard) for high touch	t f	- stat
3.3.1 and B.4	Ireland and United Kingdom The following is applicable: To protect against excessive circuits in the primary circuit of equipment, tests according to B.4 shall be conducted using circuit breaker complying with rated 32A. If the equipment d	currents and short- of <b>direct plug-in</b> o Annexes B.3.1 and an external miniature o EN 60898-1, Type B,	Arter Arter	N/A
Arr	tests, suitable protective devic as an integral part of the <b>dire</b> until the requirements of Anno met	ces shall be included ct plug-in equipment		AND AN
G.4.2	Denmark		7	N/A
	To the end of the subclause t	he following is added:		* ~
	Supply cords of single phase rated current not exceeding 1 with a plug according to DS 6	3 A shall be provided	Ret stat \$	
	CLASS I EQUIPMENT provided earth contacts or which are inten locations where protection agains required according to the wiring r with a plug in accordance with st DK 2-5a.	ded to be used in st indirect contact is rules shall be provided		
	If a single-phase equipment havi exceeding 13 A or if a poly-phase with a supply cord with a plug, th accordance with the standard sh 60884-2-D1 or EN 60309-2.	e equipment is provided is plug shall be in	AT AT	at at
	Mains socket outlets intended to Class II apparatus with a ra shall be in accordance DS 60 standard sheet DKA 1-4a.	ated current of 2,5 A	at an	- Alter
	Other current rating socket ou compliance with Standard Sh 1-1c.		4. A.	KET
	Mains socket-outlets with ear compliance with DS 60884-2- Sheet DK 1-3a, DK 1-1c, DK 7a	-D1:2011 Standard	ATTEL ATT	
	Justification: Heavy Current Regulations, S	Section 6c	At .	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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		Attachment 1	
Clause	Requirement + Test	Result - Remark	Verdict
	· · · · · · · · · · · · · · · · · · ·		A S
G.4.2	United Kingdom To the end of the subclause the	3	N/A
	The plug part of direct plug-in eq assessed to BS 1363: Part 1, 12 12.11, 12.12, 12.13, 12.16, and the test of 12.17 is performed at 125 °C. Where the metal earth p Insulated Shutter Opening Devic requirements of clauses 22.2 and	.1, 12.2, 12.3, 12.9, 12.17, except that not less than in is replaced by an e (ISOD), the	+ frit
G.7.1	United Kingdom		N/A
	To the first paragraph the following	ng is added:	
	Equipment which is fitted with a f cord and is designed to be conner socket conforming to BS 1363 by flexible cable or cord shall be fitted plug' in accordance with the Plug (Safety) Regulations 1994, Statu 1994 No. 1768, unless exempted regulations.	ected to a mains y means of that ed with a 'standard gs and Sockets etc itory Instrument	ANGE AN
<u> <u> </u></u>	NOTE "Standard plug" is defined in SI 17 means an approved plug conforming to E conversion plug.		stet ?
G.7.1	Ireland		N/A
	To the first paragraph the following	ng is added:	A 2
- 4	Apparatus which is fitted with a flucture cord shall be provided with a plucture with Statutory Instrument 525: 19 and Conversion Adapters for Don Regulations: 1997. S.I. 525 provide recognition of a standard of anothe which is equivalent to the relevant	g in accordance 997, "13 A Plugs mestic Use ides for the her Member State	
G.7.2	Ireland and United Kingdom	2	N/A
	To the first paragraph the following	ng is added:	
	A power supply cord with a cond is allowed for equipment which is and up to and including 13 A.		≻ ~.

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		Attachment 1		
Clause	Requirement + Test		Result - Remark	Verdict
				A C
ZC	ANNEX ZC, NATIONAL DEVIA	ATIONS (EN)		N/A
0.5.2	Germany			N/A
	The following requirement appli	ies:	~ ~	×
	For the operation of any cathod for the display of visual images acceleration voltage exceeding is required, or application of typ (Bauartzulassung) and marking	operating at an 40 kV, authorization e approval	t with si	
	Justification: German ministerial decree agai (Röntgenverordnung), in force s implementing the European Dir 96/29/EURATOM.	since 2002-07-01,	Arter Arter	
	NOTE Contact address: Physikalisch-TechnischeBundesanstalt D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	, Bundesallee 100,	the state	



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#### Attachment 2 – Photo Documentation



Fig.1



Fig.2

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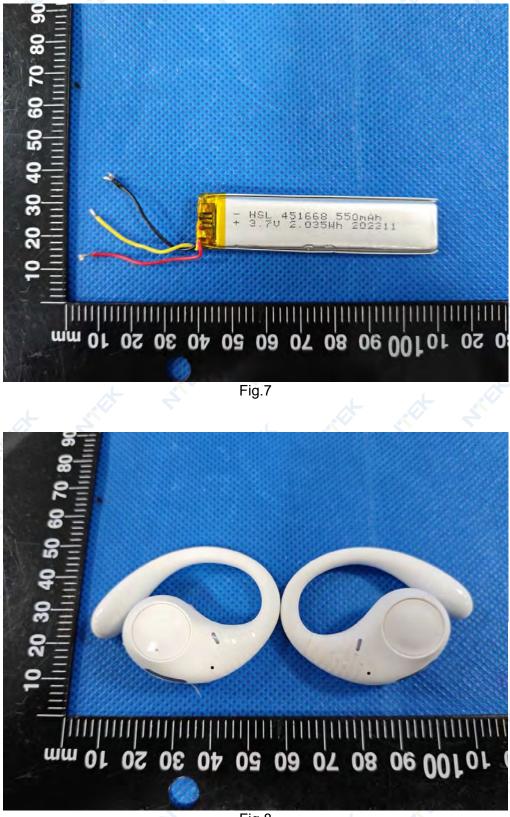


Fig.5



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Fig.9

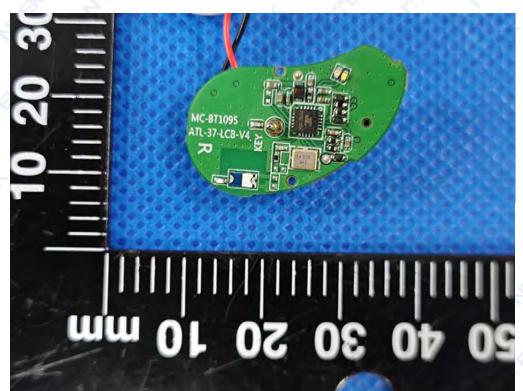


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Fig.11



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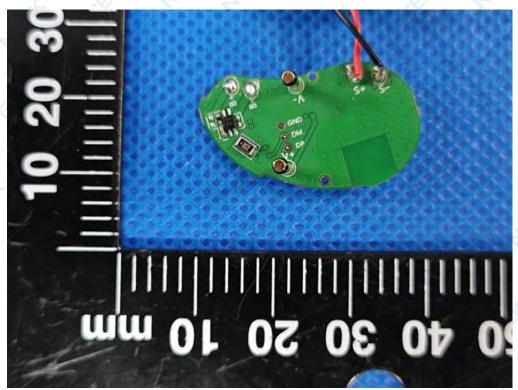


Fig.13

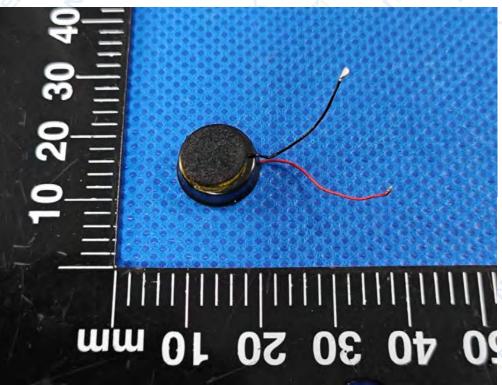


Fig.14

***END OF REPORT***