

# Verification Report

No.: CANEC1624841602 A01

Date: 10 Jan 2017

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SHENZHEN INECAN ELECTRONIC CO., LTD  
54 A, PUXIA, LIUYUE, HENGANG, LONGGANG, SHENZHEN, GUANGDONG, CHINA 518173

**This report is to supersede Verification Report No.CANEC1624841601 Date: 09 Jan 2017.**

Sample Name : Earphone  
SGS Job No. : CP16-074961 - SZ  
Test Basic Model No. (P.O. No.) : CNS-CEP03G  
Test Extended Model No. (P.O. No.) : CNS-CEP03BL, CNS-CEP03P  
Data of Sample Received : 16 Dec 2016  
Verification Period : 16 Dec 2016 – 09 Jan 2017

Verification Requested : With reference to RoHS Directive 2015/863/EU amending 2011/65/EU

Verification Method : Please refer to next page(s)

Verification Results : Please refer to next page(s)

Verification Conclusion : Based on the verification results of the submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) **do not exceed** the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Note : The test results are related only to the tested items. The report shall not be reproduced except in full without the written approval of the testing laboratory.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Jenny Liao  
Approved Signatory



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Guangzhou Branch Testing Center Chemical Laboratory.

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### Verification Method:

1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
  - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy
  - (2) Wet chemical test method
    - a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES
    - b. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES
    - c. With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES
    - d. With reference to IEC 62321-7-1:2015 & IEC 62321:2008, determination of Hexavalent chromium by Colorimetric method using UV-Vis.
    - e. With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS



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In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified.

## Details on Verification

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF <sup>(1)</sup>	Result of Wet Chemical Testing <sup>(2)</sup> (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
1	CNS-CEP03G- Green plastic shell w/ white printing	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
2	CNS-CEP03G- Green plastic cover	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
3	CNS-CEP03G- White plastic ring	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
4	CNS-CEP03G- Translucent rubber part	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
5	CNS-CEP03G- White adhesive sponge sheet	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
6	CNS-CEP03G- Silvery magnet	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
7	CNS-CEP03G- Silvery metal sheet	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	



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8	CNS-CEP03G- Silvery metal shell	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	
9	CNS-CEP03G- Silvery metal cover	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	
10	CNS-CEP03G- Green "PCB"	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	IN	ND	Comply	
			PBDEs		ND	Comply	
11	CNS-CEP03G- Silvery metal solder	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	
12	CNS-CEP03G- White plastic (wire insulation)	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
13	CNS-CEP03G- White rubber part	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
14	CNS-CEP03G- White plastic shell	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	



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15	CNS-CEP03G- Silvery metal solder	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	
16	CNS-CEP03G- Black plastic part	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
17	CNS-CEP03G- Silvery metal tube	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	
18	CNS-CEP03G- Silvery metal tube	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	
19	CNS-CEP03G- Silvery metal tube	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	
20-C	CNS-CEP03G- Silvery metal pin	-	Cd	BL	---	Comply	16 Dec 2016 06 Jan 2017
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	
21	CNS-CEP03BL- Dk-blue plastic shell w/ white printing	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	



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22	CNS-CEP03BL- Dk-blue plastic cover	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
23	CNS-CEP03P- Purple plastic shell w/ white printing	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
24	CNS-CEP03P- Purple plastic cover	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
25	CNS-CEP03G- White plastic cover	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
26	CNS-CEP03G- White plastic shell	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
27	CNS-CEP03G- Black plastic shell	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
28	CNS-CEP03G- Golden metal shell	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	



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29	CNS-CEP03G- Silvery metal solder	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	
30	CNS-CEP03G- Silvery metal pin	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	
31	CNS-CEP03G- Black plastic button	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs		---	Comply	
32	CNS-CEP03G- Silvery metal shell	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	
33	CNS-CEP03G- Silvery metal ring	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	
34	CNS-CEP03G- Green "PCB"	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	IN	ND	Comply	
			PBDEs		ND	Comply	
35	CNS-CEP03G- Silvery metal solder	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	



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36	CNS-CEP03G- Silvery metal ring	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	
37	CNS-CEP03G- Golden/silvery metal sheet	-	Cd	BL	---	Comply	16 Dec 2016
			Pb	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)▼	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs		---	---	



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### Remark

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs.  
There is the result on total Cr while test item on restricted substances is Cr(VI).
- (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg).

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not regulated.

(d) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

- (2) (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted, - = Without BOM.

(b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg
Unit	mg/kg	mg/kg	mg/kg
MDL	10	10	10

The MDL for single compound of PBBs and PBDEs is 100 mg/kg,  
MDL of Cr(VI) for polymer and composite sample is 10 mg/kg.  
MDL of Cr(VI) for metal sample is 0.10 µg/cm<sup>2</sup>.

(c) ▼ =Metal sample

- a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>.  
The sample coating is considered to contain CrVI
- b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm<sup>2</sup>).  
The coating is considered a non-CrVI based coating
- c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive  
- unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

IEC 62321 series is equivalent to EN 62321 series

[http://www.cenelec.eu/dyn/www/?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)



(3) According to the declaration from applicant, the materials of other parts in Models "CNS-CEP03BL, CNS-CEP03P" are the same as those in Model "CNS-CEP03G", and the results of Model "CNS-CEP03G" for support the results of other parts in Models "CNS-CEP03BL, CNS-CEP03P". The applicant will take the responsibility of all discrepancy and risk.



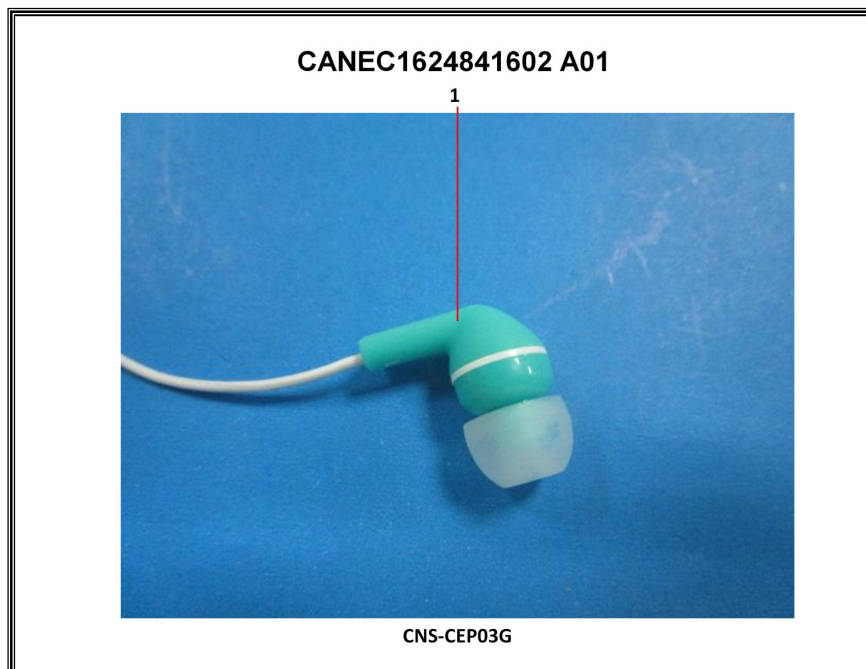
## Verification Report

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Sample photo:



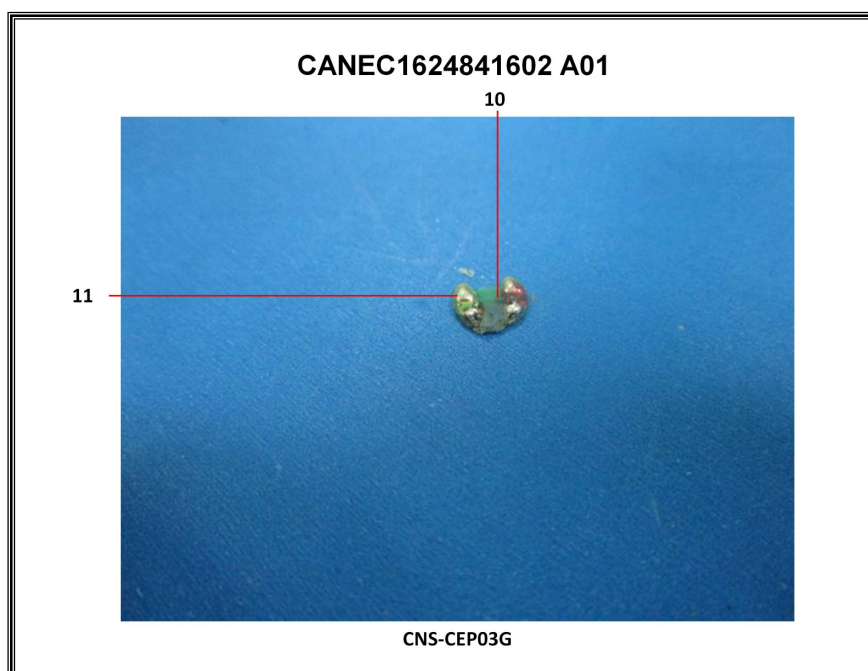
SGS-CSTC Standard & Technical Services Co., Ltd.  
Guangzhou Branch Testing Center Chemical Laboratory

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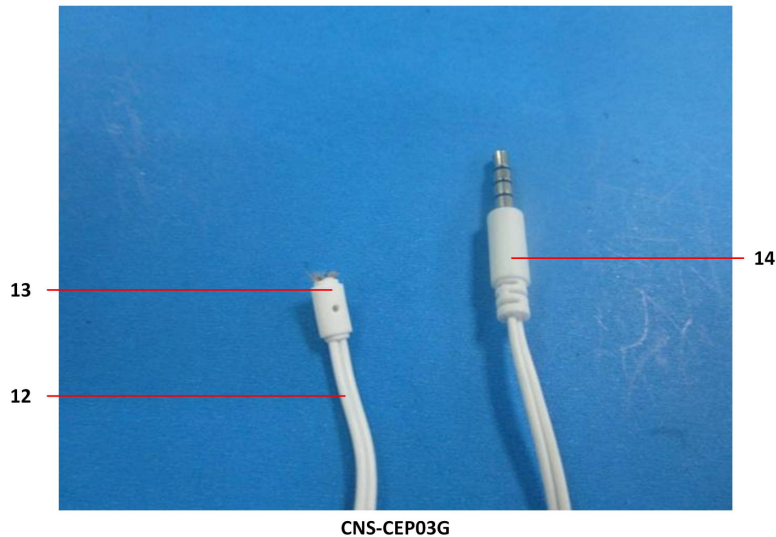
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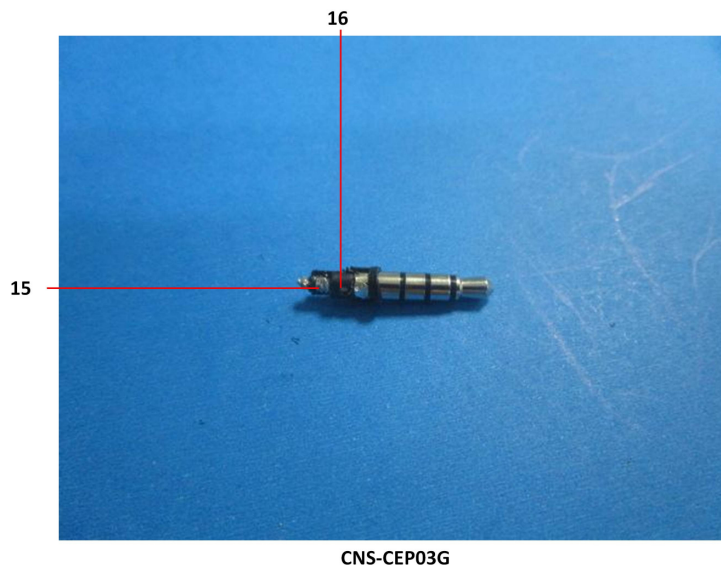




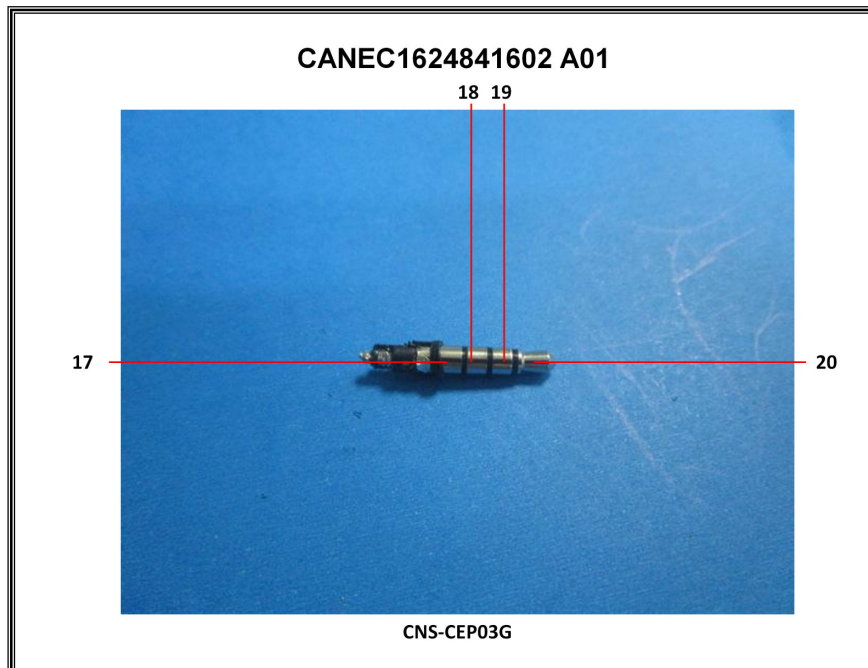
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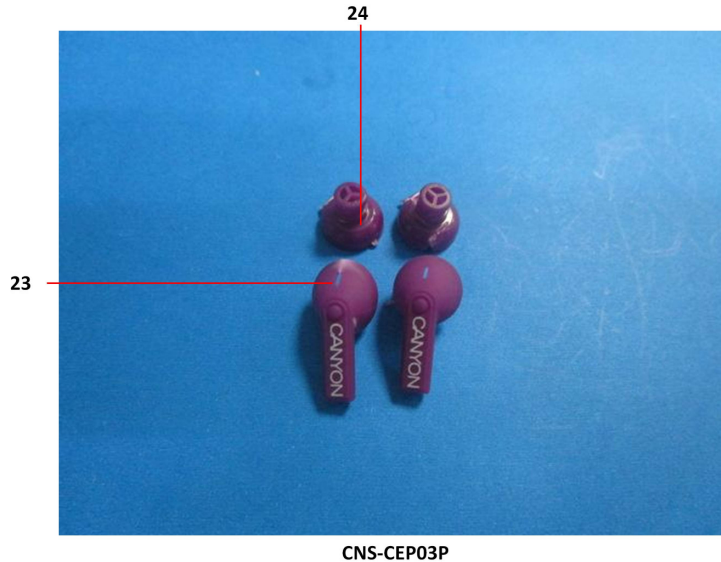






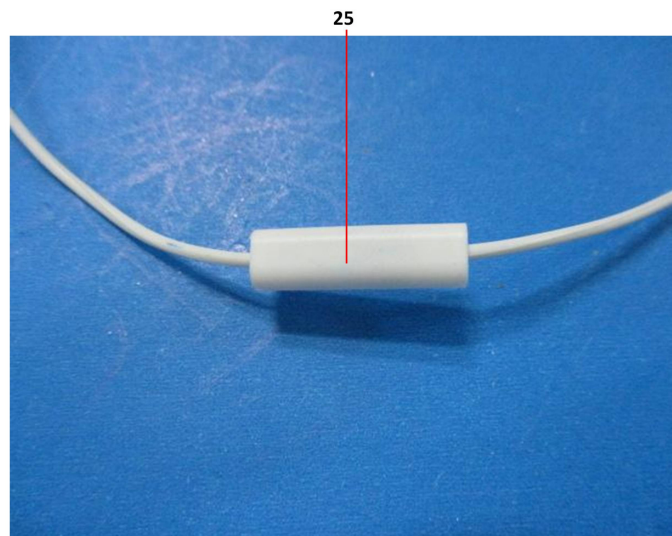


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CNS-CEP03P

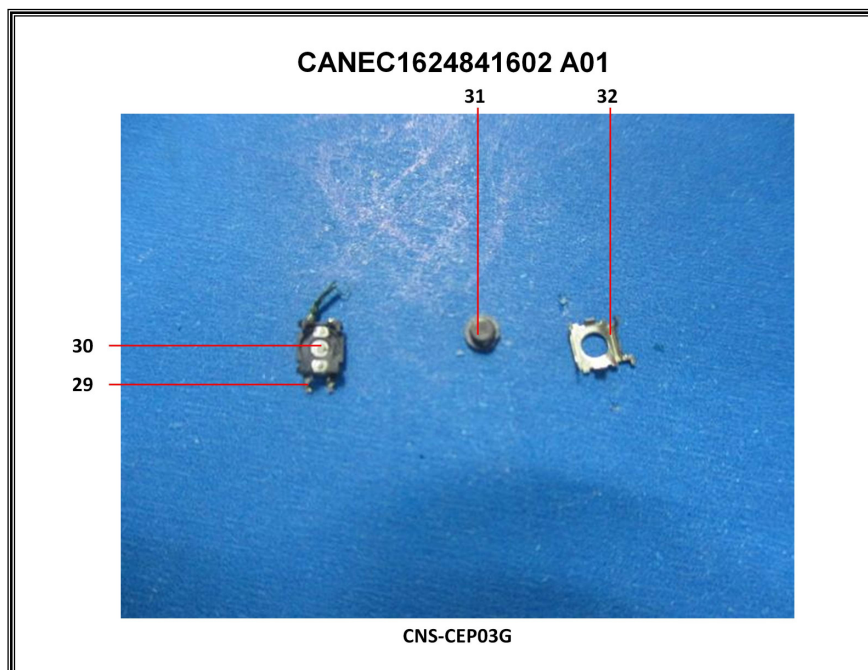
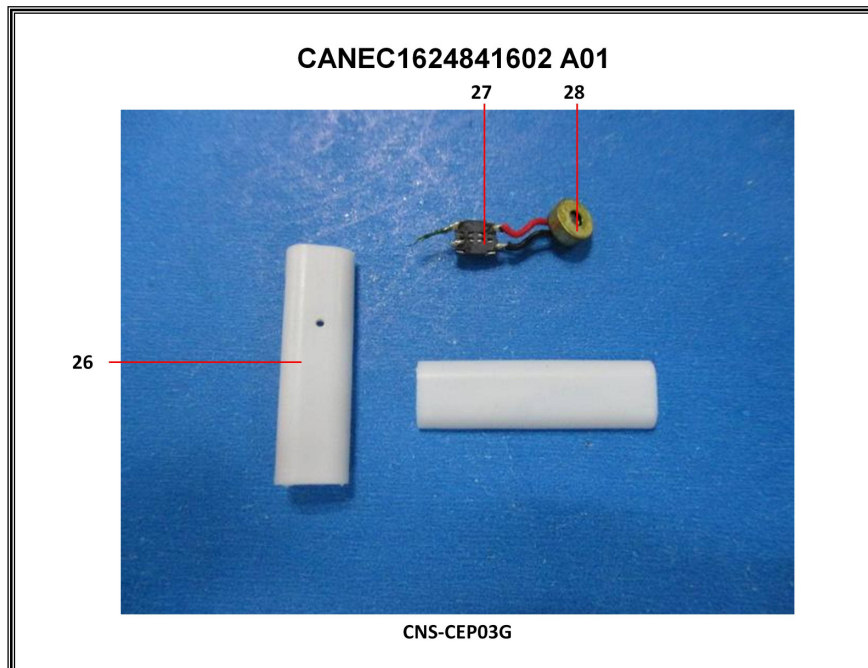
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CNS-CEP03G









SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

