



Shenzhen HSO. Test Technology Co., Ltd.

Report No.: HSO210802313CRH

Date: Aug.06,2021

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# TEST REPORT

**Applicant** : Starwave Technology Co.,Ltd  
**Address** : 4 floor 6 building,2nd Area of Dongsanxing Industrial park,  
Fuhai Avenue,Fuyong town,Baoan,Shenzhen,China.

## REPORT ON THE SUBMITTED SAMPLE SAID TO BE:

**Sample name** : Headset  
**Manufacturer** : Starwave Technology Co.,Ltd  
**Address** : 4 floor 6 building,2nd Area of Dongsanxing Industrial park,  
Fuhai Avenue,Fuyong town,Baoan,Shenzhen,China.  
**Brand Name:** : N/A  
**Model** : RX-HELIOS4IN1,SW-HD01,SW-HD02,SW-HD03,SW-HD04,SW-HD05,  
SW-HD06,SW-HD07,SW-HD08,SW-HD09,SW-HD10,SW-HD11,  
SW-HD12,SW-HD13,SW-HD14,SW-HD15,SW-HD16,SW-HD17,  
SW-HD18, SW-HD19,SW-HD20.  
**Testing period** : Aug.02,2021 to Aug.06,2021  
**Test request** : Selected test(s) as requested by client.  
**Test method** : Please refer to next page(s).  
**Test Result** : Please refer to next page(s).  
**Conclusion** : Selected test (s) in the selected parts as requested by client with the  
RoHS 2 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended  
by Directive(EU) 2017/2102.

**Signed for and on behalf of HSO**



Frank Liu \*Senior Manager

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**Test Content:**

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm2	0.13	0.1
Hexavalent Chromium (CrVI)(Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate (DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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**Sample Description :**

<b>1</b>	Wire	Black PVC line
<b>2</b>	Casing	Black empty tube
<b>3</b>	Pin	Three-stage pin
<b>4</b>	Headband line	Black pvc wire headband
<b>5</b>	Microphone	Black PVC line microphone
<b>6</b>	Luminous board	Luminous board
<b>7</b>	Wiring board	Wiring board
<b>8</b>	Headband	Headband black PP material
<b>9</b>	Head cover	Head clip cover black
<b>10</b>	Head clamp lower cover	Head clip lower cover black
<b>11</b>	Ear shell trim L	Ear shell L decorative piece ABS injection black laser engraving
<b>12</b>	Ear shell trim R	Ear shell R trim ABS black spray black laser engraving
<b>13</b>	Ear shell L	Black ear shell L
<b>14</b>	Ear shell R	Black ear shell R
<b>15</b>	Microphone cover	Black microphone cover
<b>16</b>	Microphone lower cover	Black mic under cover
<b>17</b>	Horn cover	Speaker cover black ABS
<b>18</b>	Arm cover	Arm cover
<b>19</b>	Headband pull tab	Headband pull tab
<b>20</b>	Earmuffs	All black earmuffs

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No.	Description	Name
21	Sheath	Full black jacket
22	Microphone	Microphone head 42db 3db
23	Lamb	Rabbit 4.0
24	Screw	Head clamp lower cover screw
25	Screw	Microphone screw
26	Screw	Microphone fixing screw
27	Screw	Horn cover screw
28	PCB	Green PCB

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WEB: <http://www.hso-test.com>

TEL: 86-755-33531432

FAX: 86-755-33531342



**Test Results:**

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	----	N.D.	N.D.
PBDEs	N.D.	N.D.	----	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	----	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	----	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	----	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	----	N.D.	N.D.

Test Item(s)	No.6	No.7	No.8	No.9	NO.10
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.

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Test Item(s)	No.11	No.12	No.13	No.14	No.15
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.

Test Item(s)	No.16	No.17	No.18	No.19	NO.20
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	----	N.D.
PBDEs	N.D.	N.D.	N.D.	----	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	----	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	----	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	----	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	----	N.D.

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Test Item(s)	No.21	No.22	No.23	No.24	No.25
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	---	---	---	---
PBDEs	N.D.	---	---	---	---
Dibutyl Phthalate (DBP)	N.D.	---	---	---	---
Butyl benzyl phthalate (BBP)	N.D.	---	---	---	---
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	---	---	---	---
Diisobutyl phthalate (DIBP)	N.D.	---	---	---	---

Test Item(s)	No.26	No.27	No.28	/	/
Cadmium (Cd)	N.D.	N.D.	N.D.		
Lead (Pb)	N.D.	N.D.	N.D.		
Mercury (Hg)	N.D.	N.D.	N.D.		
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.		
PBBs	---	---	---		
PBDEs	---	---	---		
Dibutyl Phthalate (DBP)	---	---	---		
Butyl benzyl phthalate (BBP)	---	---	---		
Di-(2-ethylhexyl) Phthalate(DEHP)	---	---	---		
Diisobutyl phthalate (DIBP)	---	---	---		

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**Note:**

1. mg/kg= ppm
2. N.D.= Not Detected(<MDL)
3. MDL = Method Detection Limit
4. -- = No Testing
5. when Cr(VI) in a sample is detected below the 0.10  $\mu\text{g}/\text{cm}^2$  LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) SW-WM036 not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between 0.10  $\mu\text{g}/\text{cm}^2$  and 0.13  $\mu\text{g}/\text{cm}^2$  has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing SW-WM036 be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above 0.13  $\mu\text{g}/\text{cm}^2$ , the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations SW-WM036 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.

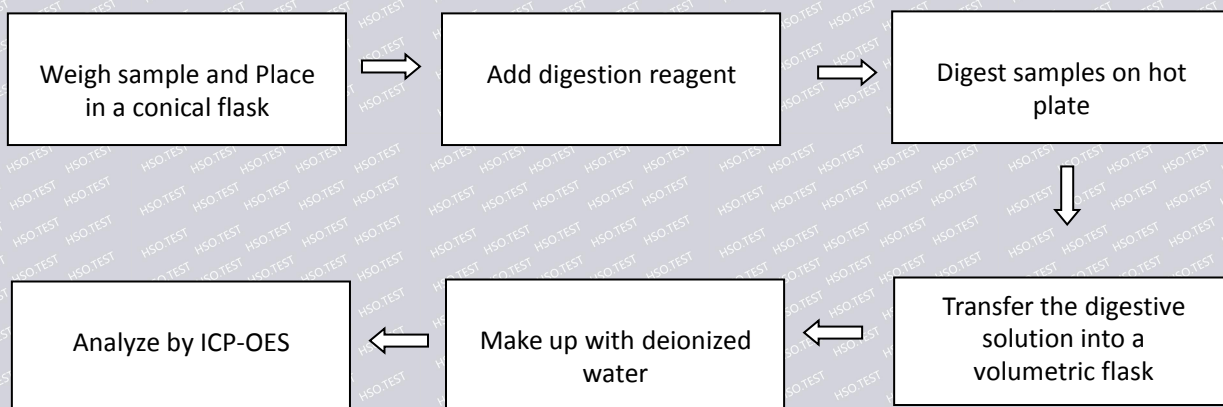
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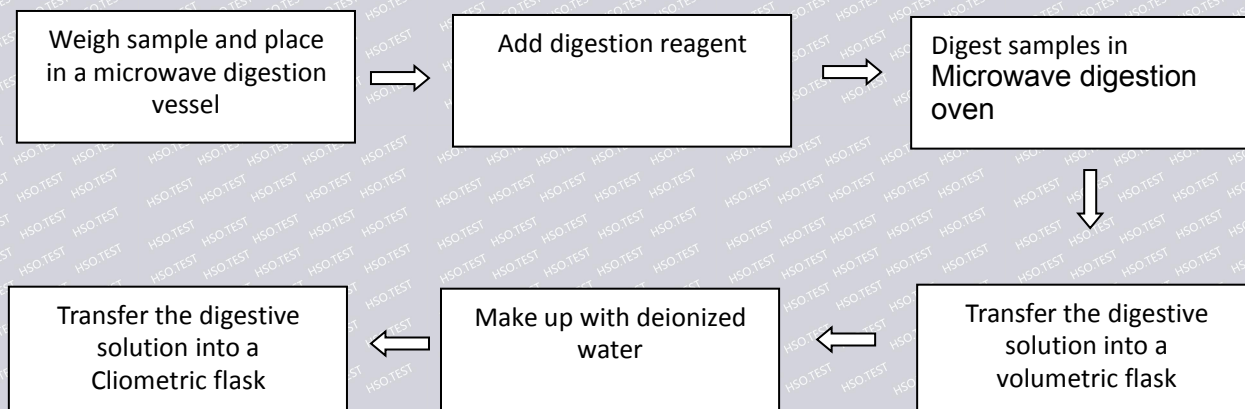


## Test Process:

### 1. Test for Cd/Pb Content



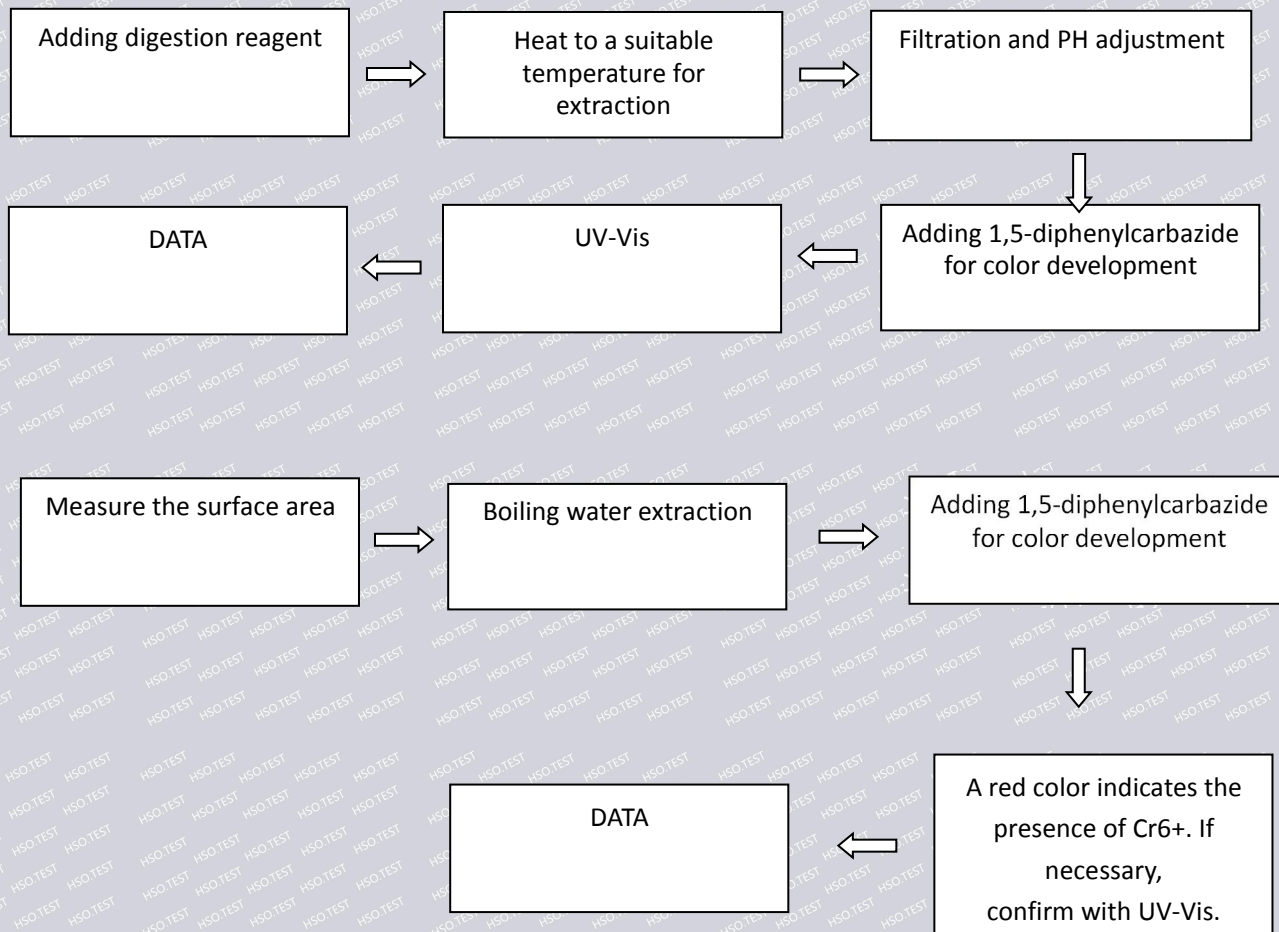
### 2. Test for Hg Content



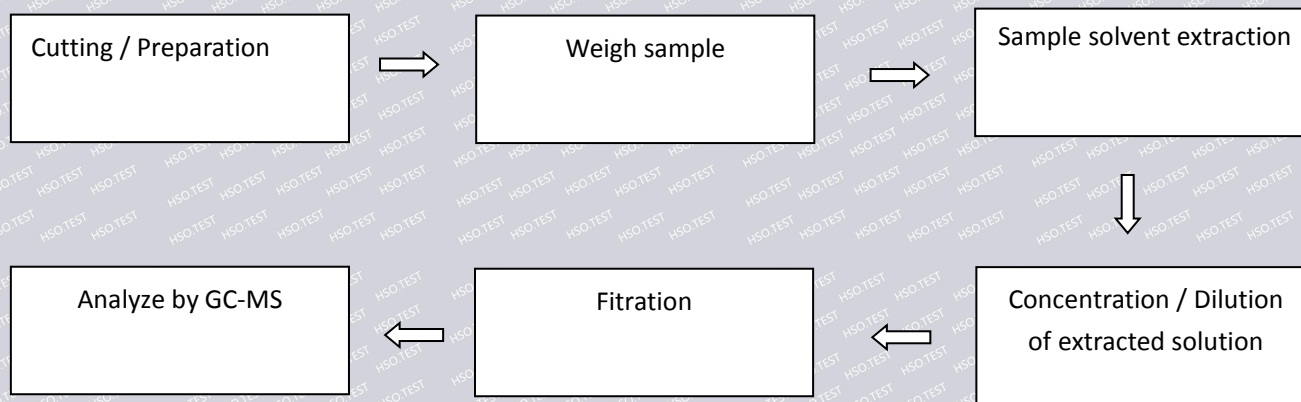
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### 3.Test for Chromium (VI) Content Nonmetal material



### 4.Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



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## Photo Documentation

Fig. 1



Fig. 2



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Fig. 3



Fig. 4



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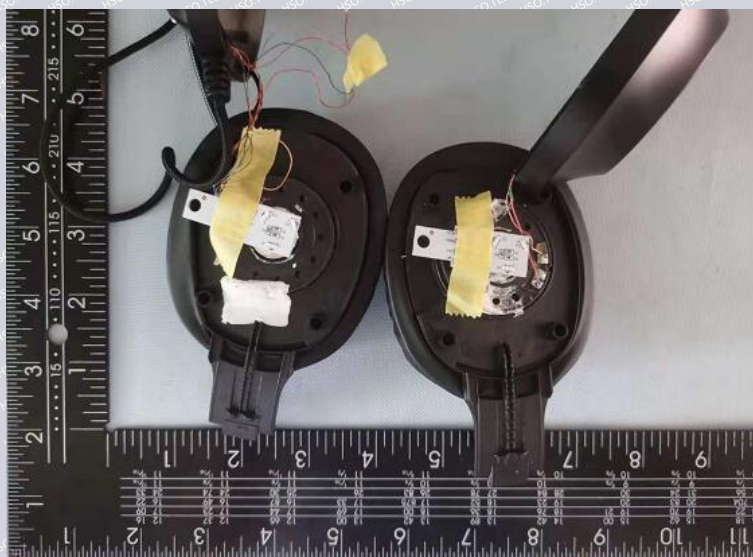




Fig. 5



Fig. 6



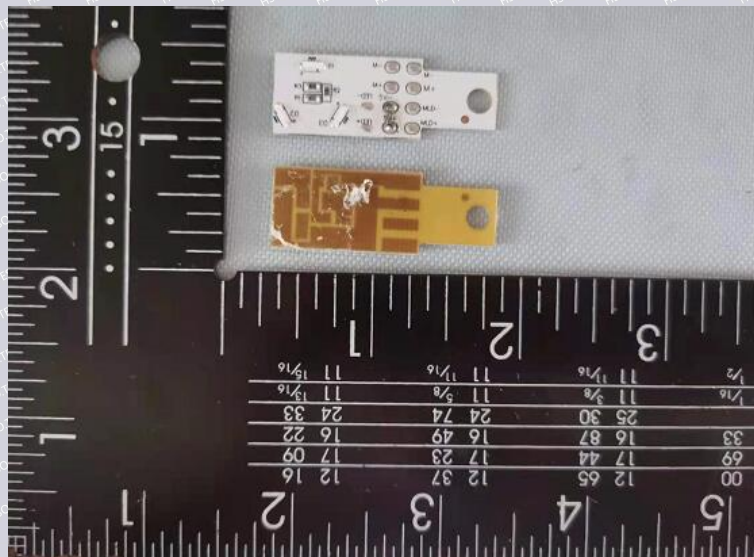
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Fig. 7



Fig. 8



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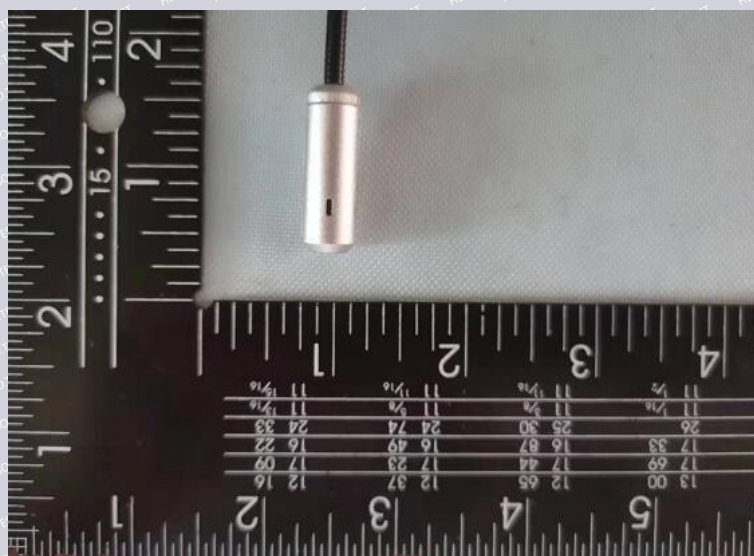




Fig. 9



Fig. 10



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Fig. 11



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

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