



# RoHS TEST REPORT

**Report No.:** VTC-2019040167R1  
**Product:** Car recorder  
**Model No.:** V18,BT100,B5,X43,X402,V9,H12,H11,H16,B5-T,H6,A1,A2,A3,A4,A5,A6,A7,A8,A9,V1,V2,V3,V4,V5,V6,V7,V8,V9  
**Applicant:** Shenzhen hongruntianyu technology.co.ltd  
**Address:** Zhoushi Road No 590, minrui Second Industrial park, Hezhou Village XiXiang town, Baoan District, Shenzhen City,Guangdong Province,China  
**Issued by:** Shenzhen VTC Testing Technology Co., Ltd.  
**Lab Location:** A area, 6th Floor, Huaxia Building, Jingxiu Road,Shajing District, Bao'An, Shenzhen, Guangdong, China

**Date of Receipt:**

Apr. 15, 2019

**Date of Test:**

Apr. 15,- Apr. 25, 2019

**Date of Issue:**

Apr. 25, 2019

**Test Result:** Pass

**Testing Engineer** : Fan Lian  
(Fan Lian)

**Technical Manager** : Jesse Liu  
(Jesse Liu)

**Authorize Signatory** : Sam Wang  
(Sam Wang)



This test report consists of **14** pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by VTC. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver. Any objections must be raised to VTC within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.

## TEST REPORT

Applicant : Shenzhen hongruntianyu technology.co.ltd  
Applicant Address : Zhoushi Road No 590, minrui Second Industrial park, Hezhou Village XiXiang town, Baoan District, Shenzhen City,Guangdong Province,China

The following sample was submitted by the client as:

Product Name : Car recorder  
Mode No. : V18,BT100,B5,X43,X402,V9,H12,H11,H16,B5-T,H6,A1,A2,A3,A4,A5,A6,A7,A8,A9,V1,V2,V3,V4,V5,V6,V7,V8,V9  
Trade Mark. : N/A  
Manufacturer : Shenzhen hongruntianyu technology.co.ltd  
Zhoushi Road No 590, minrui Second Industrial park, Hezhou Village XiXiang town, Baoan District, Shenzhen City,Guangdong Province,China  
Test Requested : EU RoHS Directive 2011/65/EU and its amendment directives 2015/863/EU (RoHS 2.0) on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DEHP, BBP, DBP & DIBP content  
Test Standard : IEC 62321-4-2013+A1:2017 IEC 62321-5-2013  
IEC 62321-7-2-2017 IEC 62321-6-2015  
IEC 62321-8-2017  
Test Results : Pass  
\*\*\*\*\*

**Test Method (s) :**

Chemical testing methods &amp; Equipments

| Testing Item                    | Testing Method                 | Equipment | Equipment No. | Cal Date | Due Date |
|---------------------------------|--------------------------------|-----------|---------------|----------|----------|
| Lead (Pb)                       | IEC 62321-5-2013<br>(Ed1.0)    | ICP-OES   | YQ-174        | 2017/9/4 | 2019/9/3 |
| Cadmium (Cd)                    | IEC 62321-5-2013<br>(Ed1.0)    | ICP-OES   | YQ-174        | 2017/9/4 | 2019/9/3 |
| Mercury (Hg)                    | IEC 62321-4-2013<br>+A1:2017   | ICP-OES   | YQ-174        | 2017/9/4 | 2019/9/3 |
| Hexavalent chromium<br>(Cr(VI)) | IEC 62321-7-2-2017<br>(Ed1.0)* | UV-VIS    | YQ-177        | 2018/8/6 | 2019/8/5 |
| PBBs                            | IEC 62321-6-2015<br>(Ed1.0)    | GC-MS     | YQ-211        | 2017/9/4 | 2019/9/3 |
| PBDEs                           | IEC 62321-6-2015<br>(Ed1.0)    | GC-MS     | YQ-211        | 2017/9/4 | 2019/9/3 |
| DBP                             | IEC 62321-8-2017<br>(Ed1.0)    | GC-MS     | YQ-211        | 2017/9/4 | 2019/9/3 |
| BBP                             | IEC 62321-8-2017<br>(Ed1.0)    | GC-MS     | YQ-211        | 2017/9/4 | 2019/9/3 |
| DEHP                            | IEC 62321-8-2017<br>(Ed1.0)    | GC-MS     | YQ-211        | 2017/9/4 | 2019/9/3 |
| DIBP                            | IEC 62321-8-2017<br>(Ed1.0)    | GC-MS     | YQ-211        | 2017/9/4 | 2019/9/3 |

| No. | Sample Description               | No. | Sample Description                       |
|-----|----------------------------------|-----|------------------------------------------|
| 1   | Black enclosure                  | 20  | Buzzer-sticky black soft plastic         |
| 2   | Shell-black coating              | 21  | Buzzer-silvery metal                     |
| 3   | Copper foil                      | 23  | USB connector-coppery metal              |
| 4   | Green PCB                        | 24  | USB connector-white hard plastic         |
| 5   | SMD resistor                     | 25  | Crash pad-sticky silvery foam            |
| 6   | SMD capacitor                    | 26  | USB connector-coppery metal              |
| 7   | IC                               | 27  | Fixed plate-silvery metal                |
| 8   | Terminal-white hard plastic      | 28  | Terminal-silvery metal                   |
| 9   | Electric wire-white soft plastic | 29  | Display-white soft plastic               |
| 10  | Electric wire-black soft plastic | 30  | Display-silvery translucent soft plastic |
| 11  | Camera-transparent glass         | 31  | Display-black transparent glass          |
| 12  | Camera-black hard plastic        | 32  | Tin                                      |
| 13  | Camera-IC                        |     |                                          |
| 14  | SMD inductor                     |     |                                          |
| 15  | SMD crystal oscillator           |     |                                          |
| 16  | Solder-silvery metal             |     |                                          |
| 17  | SMD diode                        |     |                                          |
| 18  | SMD capacitor                    |     |                                          |
| 19  | SMD LED                          |     |                                          |

[illegible]

[illegible]

[illegible]

[illegible]

1. mg/kg=milligram per kilogram
2. ND=Not Detected(<MDL)
3. MDL=Method Detection Limit
4. NA=Not Applicable
5. “—” =Not regulated

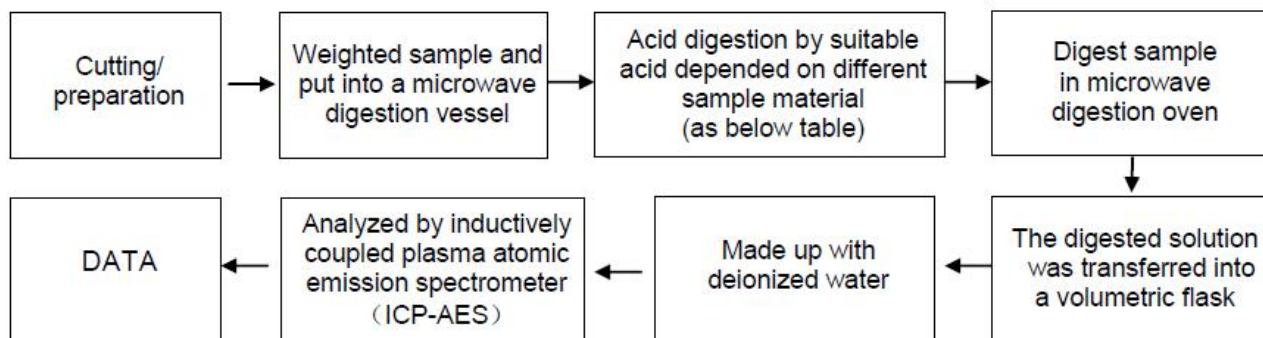
[illegible]

## Appendix

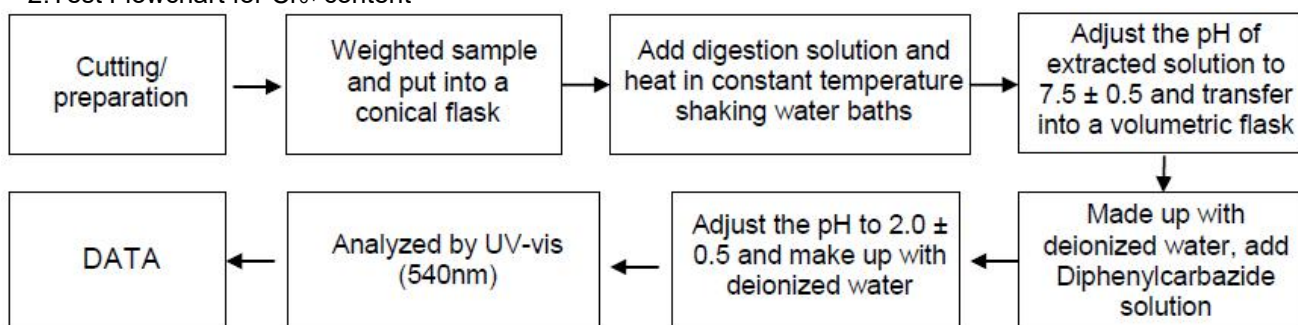
### Test Flow chart

#### 1. Test Flowchart for Cd / Pb /Hg content

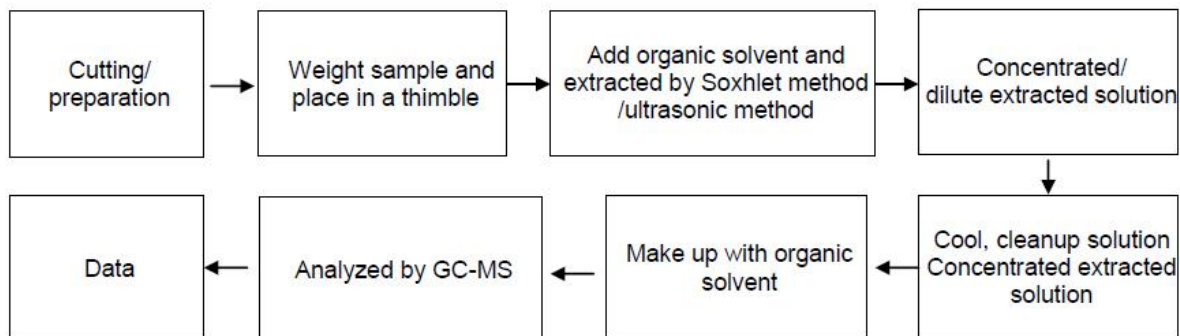
These samples were dissolved totally by pre-conditioning method according to below flow chart.



#### 2. Test Flowchart for Cr<sub>6+</sub> content



## 3. Test Flowchart for PBBs &amp; PBDEs content



## 4. Test Flowchart for DEHP, BBP, DBP &amp; DIBP content

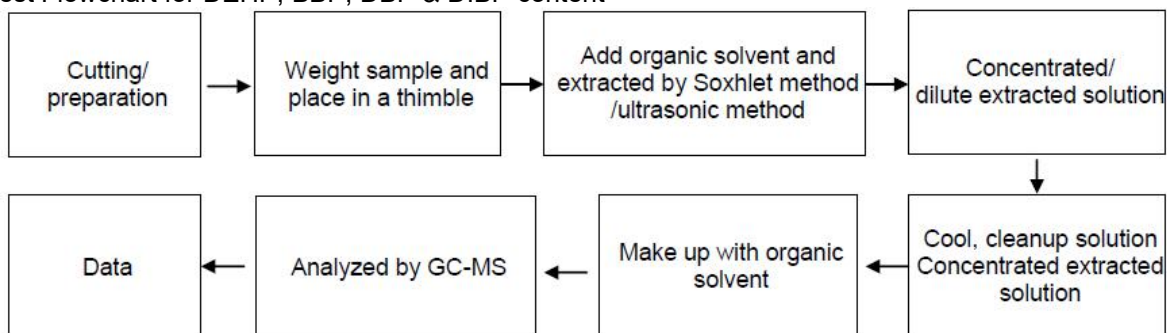
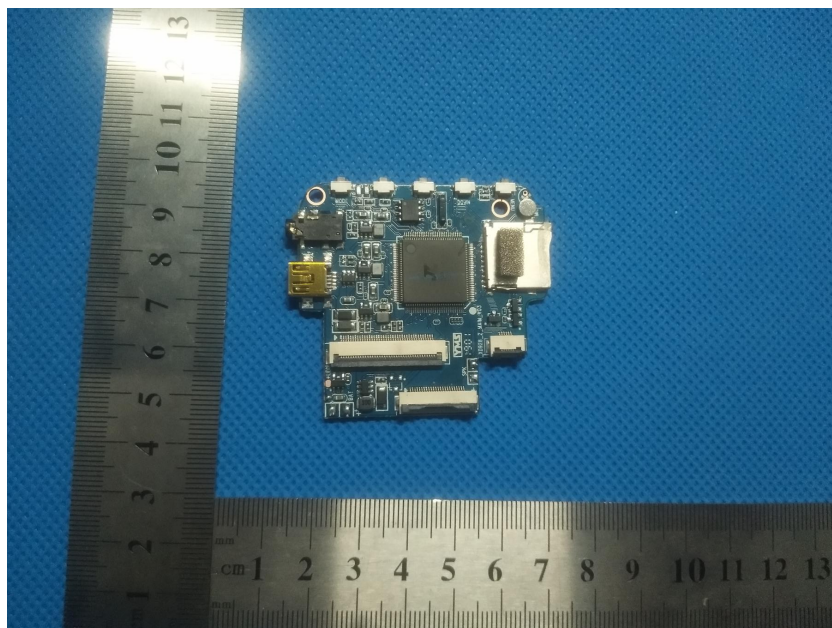


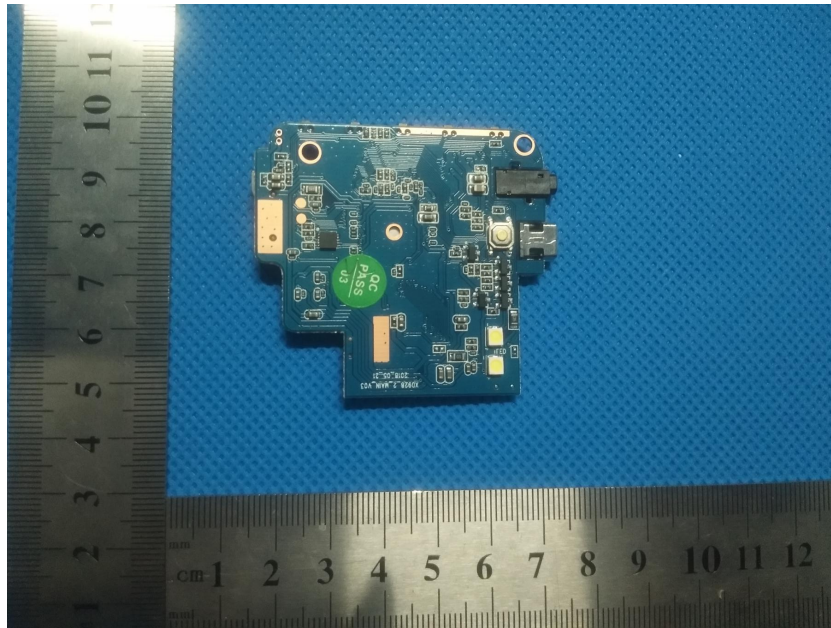
Table:

| Sample material                    | Digestion Acid                                                                          |
|------------------------------------|-----------------------------------------------------------------------------------------|
| Steel, copper, aluminum, solder    | Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>                   |
| Glass                              | HNO <sub>3</sub> /HF                                                                    |
| Gold, platinum, palladium, ceramic | Aqua regia                                                                              |
| Silver                             | HNO <sub>3</sub>                                                                        |
| Plastic                            | H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl |
| Others                             | Any acid to total digestion                                                             |

**EUT Photo 1****EUT Photo 2**

**EUT Photo 3****EUT Photo 4**

**EUT Photo 5**



--End of Report--