



Test Report

Applicant : DongGuan Kemi Electronics Technology Co., Ltd
Address : Room 201, Floor 2, Building 4, Taixing Science Park, No.3, Taixing Road, Shigu, Tangxia Town, Dongguan city, China

Report on the submitted samples said to be:

Sample Name(s) : Bluetooth headset
Trade Mark : N/A
Part No. : X7
Reference Part No. : X10, X11, X13, X7pro
Sample Received Date : April 09, 2024
Testing Period : April 09, 2024 ~ April 11, 2024
Date of Report : April 11, 2024
Testing Location : 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China
Results : Please refer to next page(s).

| TEST REQUEST | CONCLUSION |
|--|------------|
| As specified by client, based on the performed tests on submitted sample, the result of Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, Dibutyl Phthalate(DBP), Butylbenzyl Phthalate(BBP), Di-2-ethylhexyl Phthalate(DEHP) and Diisobutyl phthalate(DIBP) content comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863. | PASS |

Signed for and on behalf of LCS

Terry Luo



**A. EU RoHS Directive 2011/65/EU and its amendment directives**

Test method: Refer to IEC 62321-1:2013&IEC 62321-2:2021&IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF).

Test result(s):

| Sample No. | Sample Description | Screening Result(s) | | | | | | Date of sample submission/ Resubmission |
|------------|---|---------------------|----|----|-----------------|-----------------|-------|---|
| | | Cd | Pb | Hg | Cr [▼] | Br [▼] | | |
| | | | | | | PBBs | PBDEs | |
| 1 | Black plastic shell | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 2 | Gold metal stylus | BL | BL | BL | BL | / | / | 2024-04-09 |
| 3 | Silver metal magnet | BL | BL | BL | BL | / | / | 2024-04-09 |
| 4 | White semi transparent dry adhesive | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 5 | Gold metal wire | BL | BL | BL | BL | / | / | 2024-04-09 |
| 6 | Red enameled wire | BL | BL | BL | BL | / | / | 2024-04-09 |
| 7 | Soldering | BL | BL | BL | BL | / | / | 2024-04-09 |
| 8 | Blue PCB board | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 9 | Copper colored metal wire | BL | BL | BL | BL | / | / | 2024-04-09 |
| 10 | Blue plastic shell | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 11 | Silver metal magnet | BL | BL | BL | BL | / | / | 2024-04-09 |
| 12 | Silver metal shell | BL | BL | BL | BL | / | / | 2024-04-09 |
| 13 | Silver metal shell | BL | BL | BL | BL | / | / | 2024-04-09 |
| 14 | Black chip | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 15 | Golden metal body | BL | BL | BL | BL | / | / | 2024-04-09 |
| 16 | Black foam adhesive | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 17 | Silver crystal oscillator | BL | BL | BL | BL | / | / | 2024-04-09 |
| 18 | Green PCB board | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 19 | Black plastic buttons | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 20 | Green PCB board | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 21 | Black plastic wire cover (outer) | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 22 | Black silver plated metal wire | BL | BL | BL | BL | / | / | 2024-04-09 |
| 23 | Yellow plastic wire skin | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 24 | White semi transparent plastic outer skin | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 25 | Green enameled wire | BL | BL | BL | BL | / | / | 2024-04-09 |
| 26 | Blue enameled wire | BL | BL | BL | BL | / | / | 2024-04-09 |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



| Sample No. | Sample Description | Screening Result(s) | | | | | | Date of sample submission/ Resubmission |
|------------|----------------------------------|---------------------|----|----|-----|------|-------|---|
| | | Cd | Pb | Hg | Cr▼ | Br▼ | | |
| | | | | | | PBBs | PBDEs | |
| 27 | Black plastic wire cover (outer) | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 28 | Black soft plastic plug housing | BL | BL | BL | BL | BL | BL | 2024-04-09 |
| 29 | Silver metal plug housing | BL | BL | BL | BL | / | / | 2024-04-09 |
| 30 | Black silver plated metal shell | BL | BL | BL | BL | / | / | 2024-04-09 |

Note:

- Results were obtained by XRF for primary screening, and further chemical testing by ICP(for Cd, Pb, Hg), UV-Vis(for Cr(VI)) and GC-MS(for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013(Unit: mg/kg).

| Element | Polymers | Metals | Composite material |
|---------|--|--|--|
| 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 | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$ | $BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$ |
| Cr | $BL \leq (700-3\sigma) < X$ | $BL \leq (700-3\sigma) < X$ | $BL \leq (500-3\sigma) < X$ |
| Br | $BL \leq (300-3\sigma) < X$ | N/A | $BL \leq (250-3\sigma) < X$ |

Remark:

- BL= Below Limit
 - OL= Over Limit
 - X= The range of needing to do further testing
 - 3σ = The reproducibility of analytical instruments
 - N/A= Not applicable
 - LOD= Detection limit
- The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
 - The maximum permissible limit is quoted from the document RoHS Directive 2011/65/EU with amendment (EU) 2015/863.
 - ▼=For restricted substances PBBs and PBDEs, the results show the total Br content, the restricted substance was Cr(VI), and the results showed the total Cr content.





| RoHS Restricted Substances | Maximum Concentration Value (mg/kg) (by weight in homogenous materials) |
|--------------------------------------|--|
| Cadmium(Cd) | 100 |
| Lead(Pb) | 1000 |
| Mercury(Hg) | 1000 |
| Hexavalent Chromium(Cr(VI)) | 1000 |
| Polybrominated biphenyls(PBBs) | 1000 |
| Polybrominated diphenylethers(PBDEs) | 1000 |
| Dibutyl Phthalate(DBP) | 1000 |
| Butylbenzyl Phthalate(BBP) | 1000 |
| Di-(2-ethylhexyl) Phthalate(DEHP) | 1000 |
| Diisobutyl phthalate(DIBP) | 1000 |

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.





B. EU RoHS Directive 2011/65/EU with amendment (EU) 2015/863 on DBP, BBP, DEHP & DIBP content

Test method:

Phthalates(DBP, BBP, DEHP &DIBP) Content:

Refer to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatography-mass spectrometer (GC-MS).

Test result(s):

1) Phthalates(DBP, BBP, DEHP &DIBP)

| Tested Item(s) | MDL (mg/kg) | Test Result(s) (mg/kg) | | Limit (mg/kg) |
|---|-------------|------------------------|------|---------------|
| | | (21) | (28) | |
| Dibutyl Phthalate(DBP) Content | 50 | N.D. | N.D. | 1000 |
| Butylbenzyl Phthalate(BBP) Content | 50 | N.D. | N.D. | 1000 |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50 | N.D. | N.D. | 1000 |
| Diisobutyl phthalate(DIBP) Content | 50 | N.D. | N.D. | 1000 |

| Tested Item(s) | MDL (mg/kg) | Test Result(s) (mg/kg) | Limit (mg/kg) |
|---|-------------|------------------------|---------------|
| | | (1+4+8+10+14+16) | |
| Dibutyl Phthalate(DBP) Content | 50 | N.D. | 1000 |
| Butylbenzyl Phthalate(BBP) Content | 50 | N.D. | 1000 |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50 | N.D. | 1000 |
| Diisobutyl phthalate(DIBP) Content | 50 | N.D. | 1000 |

| Tested Item(s) | MDL (mg/kg) | Test Result(s) (mg/kg) | Limit (mg/kg) |
|---|-------------|------------------------|---------------|
| | | (18+19+20+23+24+27) | |
| Dibutyl Phthalate(DBP) Content | 50 | N.D. | 1000 |
| Butylbenzyl Phthalate(BBP) Content | 50 | N.D. | 1000 |
| Di-(2-ethylhexyl) Phthalate(DEHP) Content | 50 | N.D. | 1000 |
| Diisobutyl phthalate(DIBP) Content | 50 | N.D. | 1000 |



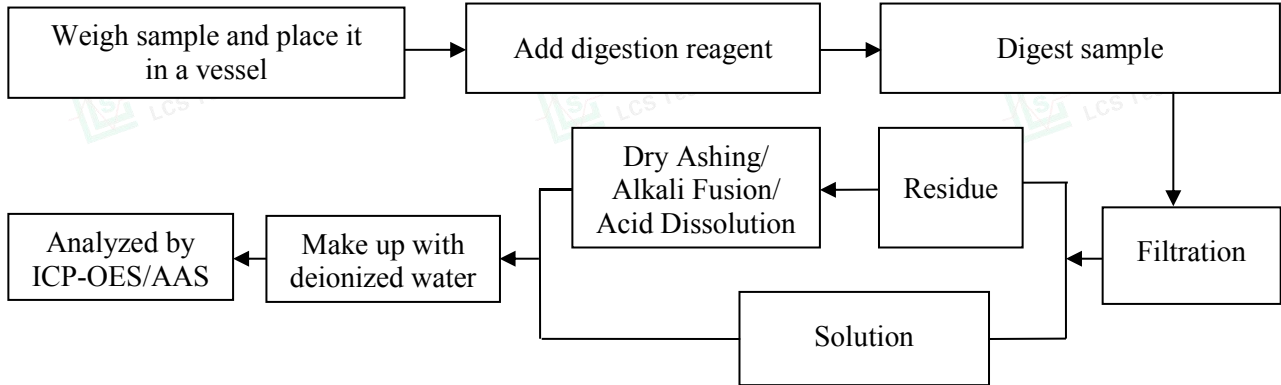


Note:

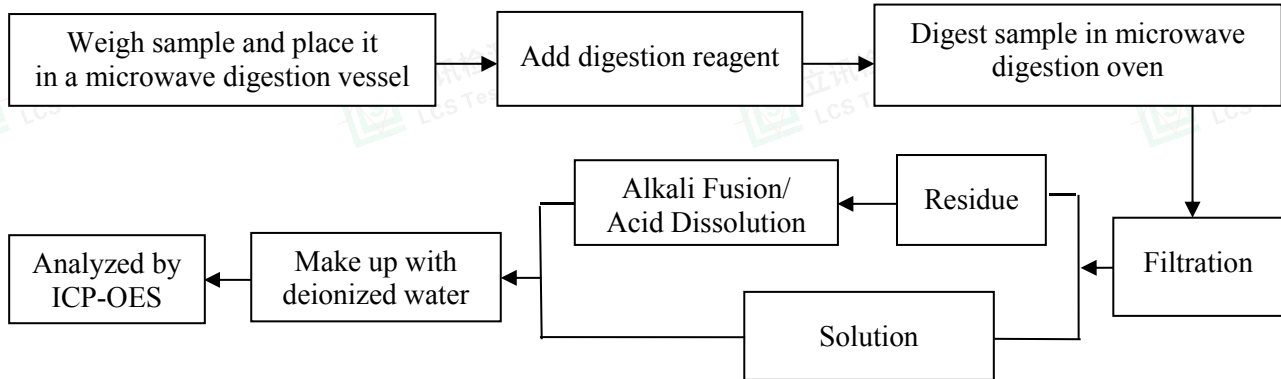
- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg= milligram
- According to customer's requirement, only the appointed materials have been tested.

Test Process

1. Lead(Pb) & Cadmium(Cd): IEC 62321-5:2013

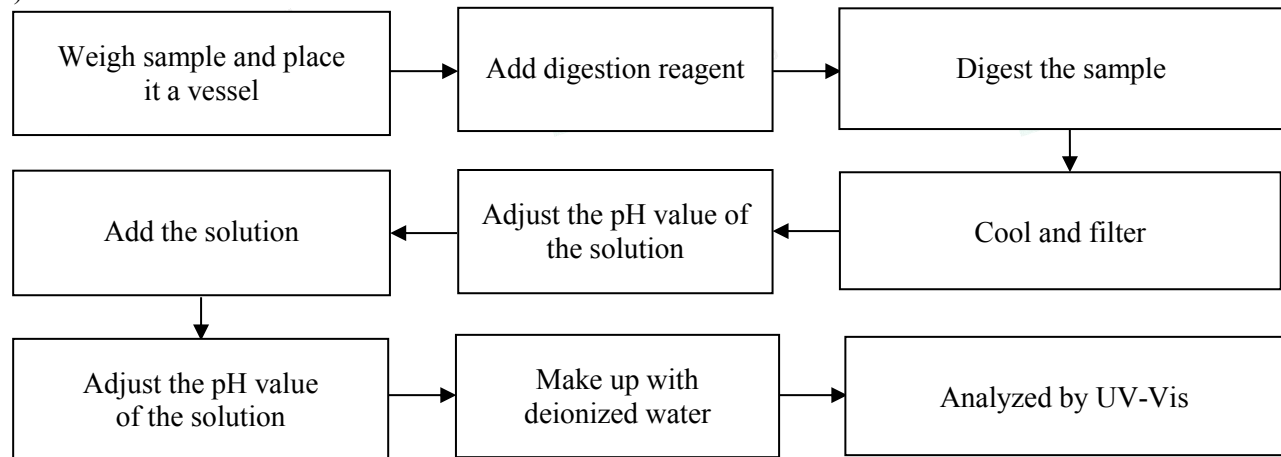


2. Mercury(Hg): IEC 62321-4:2013+AMD1:2017 CSV



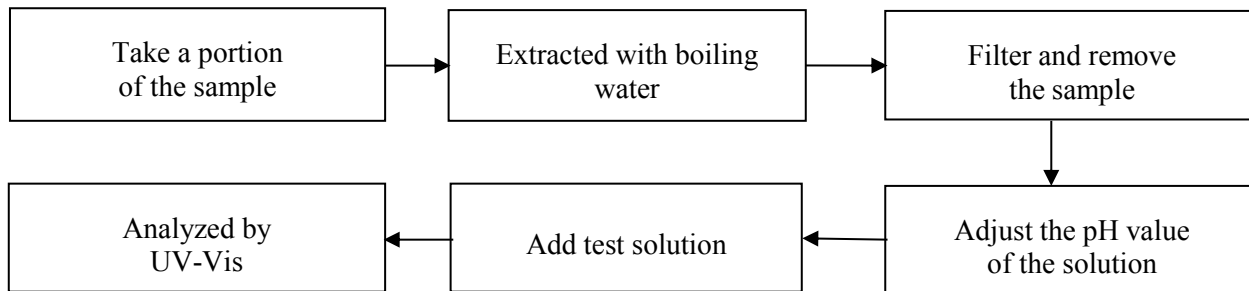
3. Hexavalent Chromium(Cr(VI))

1) IEC 62321-7-2:2017

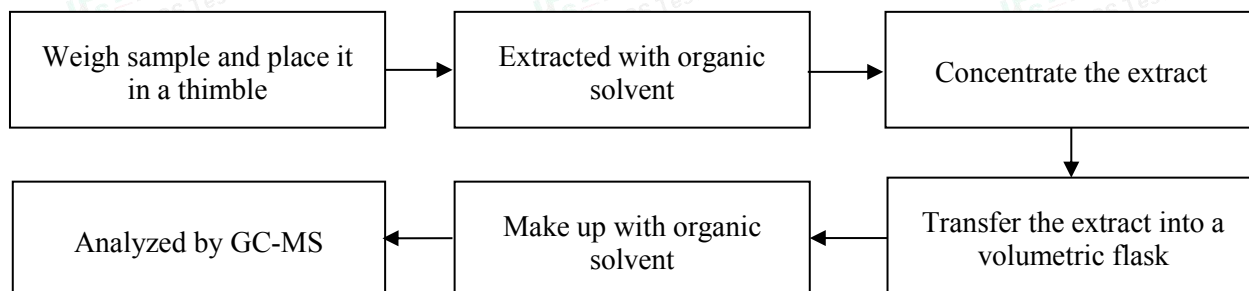




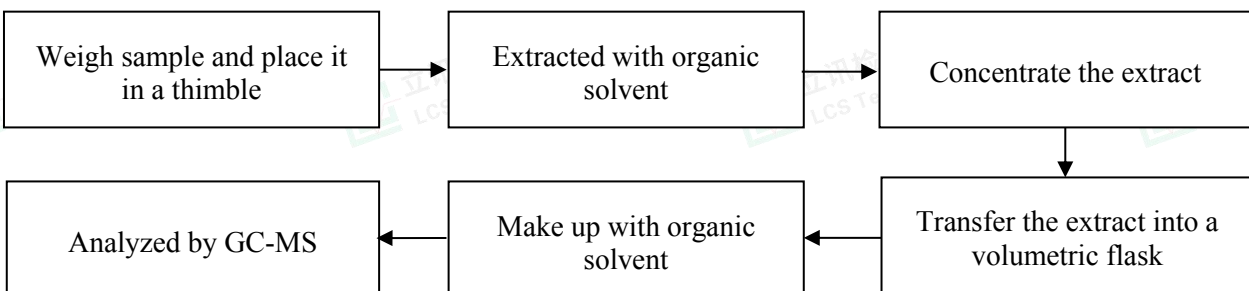
2) IEC 62321-7-1:2015



4. Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs) : IEC 62321-6:2015

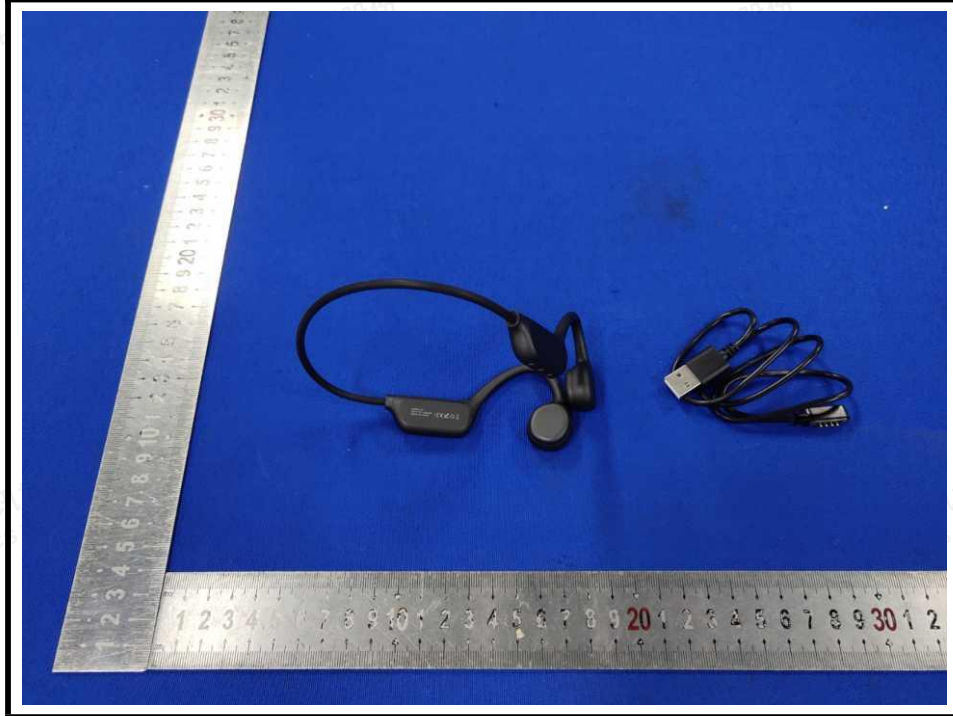


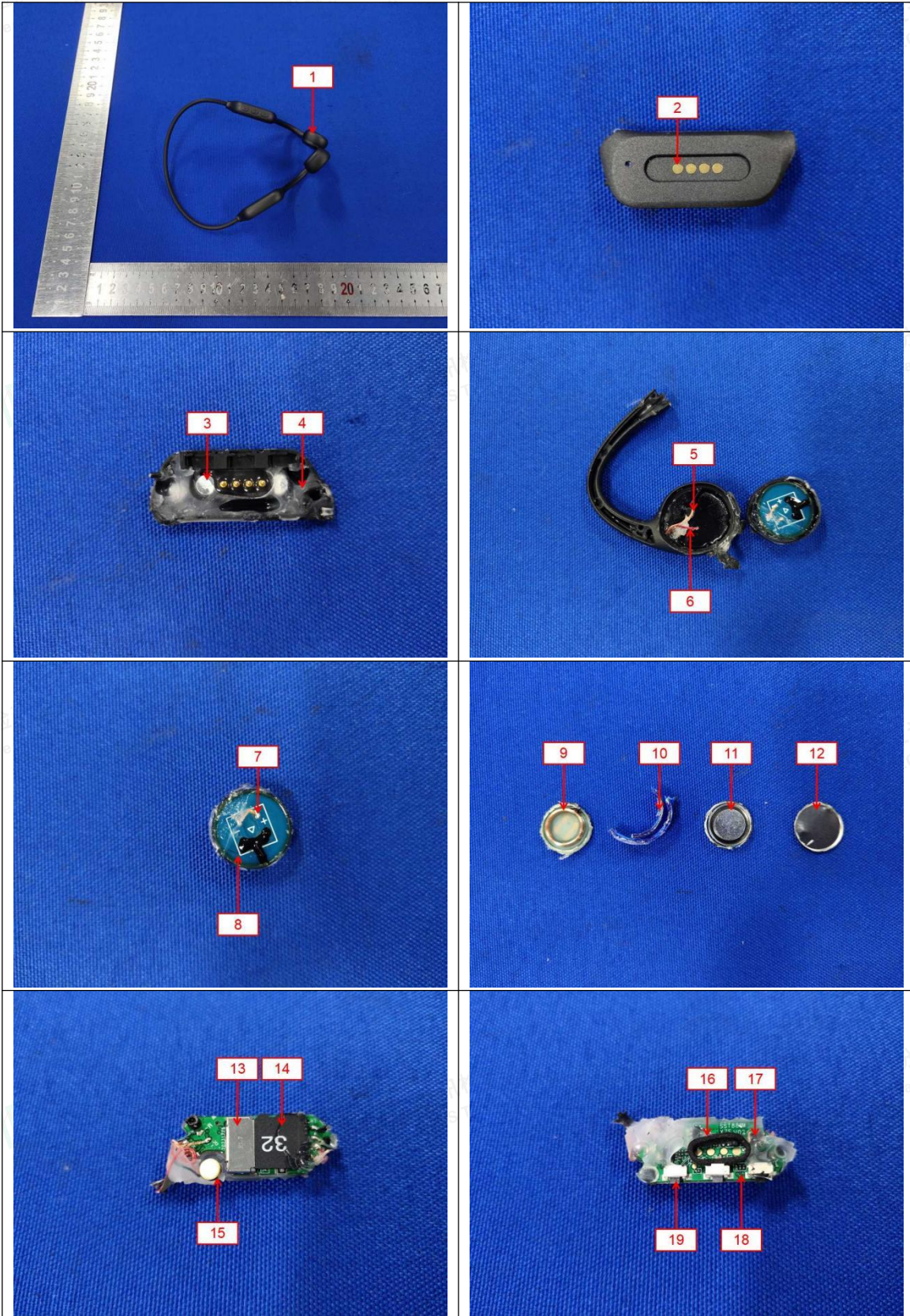
5. Phthalates(DBP, BBP, DEHP & DIBP) : IEC 62321-8:2017

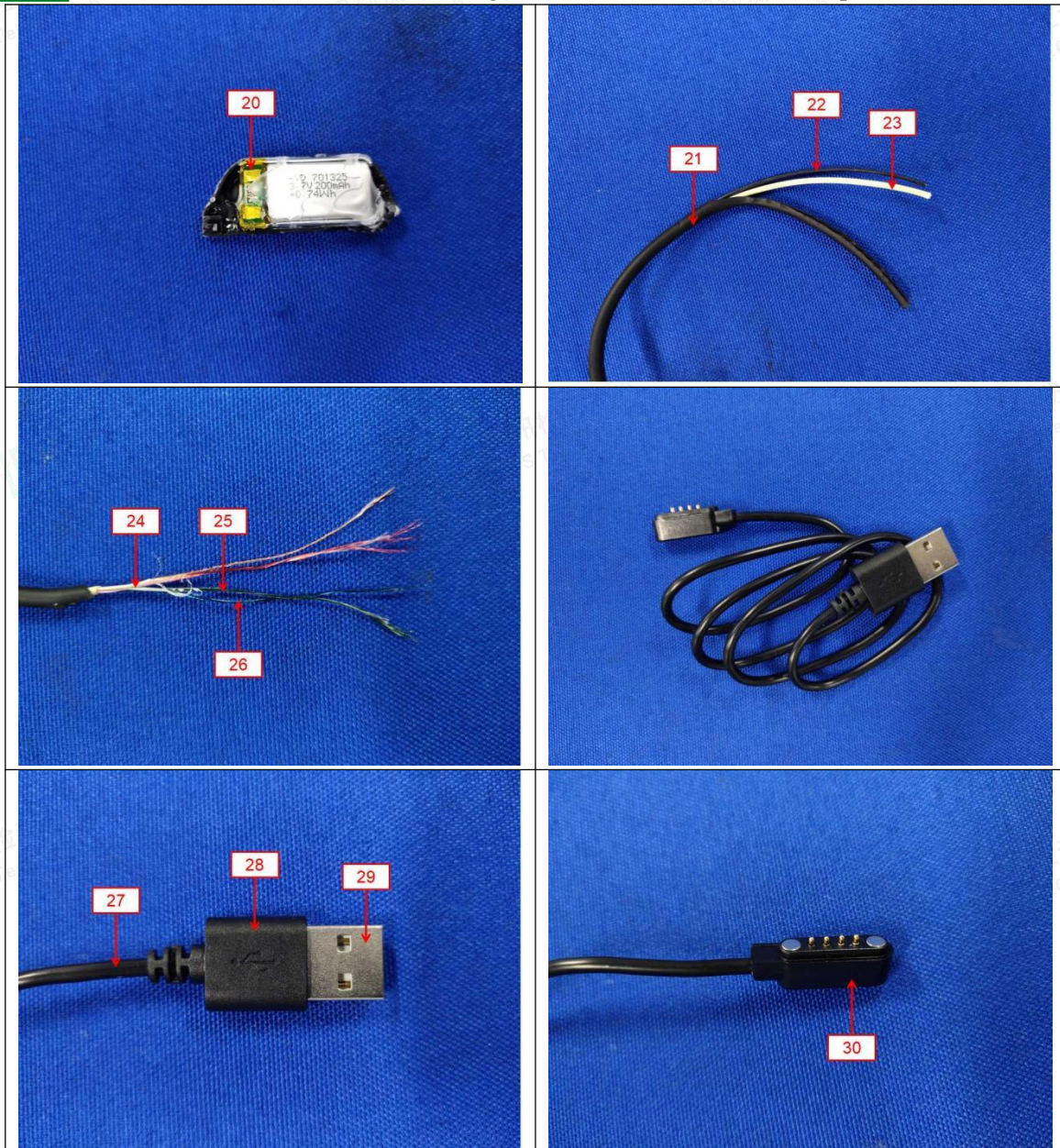




The photo(s) of the sample







Statement:

1. The test report is invalid without the signature of the approver and the special seal for the company's report;
2. The company name, address and sample information shown on the report were provided by the applicant who should be responsible for the authenticity which are not verified by LCS;
3. The test results in this report are only responsible for the tested samples;
4. Without written approval of LCS, this report can't be reproduced except in full;
5. In case of any discrepancy between the corresponding Chinese and English contents in the test report, the Chinese version shall prevail.

*** End of Report ***

