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BCTC Date: Dec. 04, 2018 Page 1 of 12 No.BCTC-FYC180115151R Applicant Address The submitted sample and sample information was/were submitted and identified by/on the behalf RCIL of the client Sample name Smart bracelet BETC Testing type /model Additional type /model Manufacturer Address Sample received date Nov. 27, 2018 BCTC **Testing period** Nov. 27, 2018 - Dec. 04, 2018 Test requested 1. As specified by client, to screen Lead(Pb), Cadmium(Cd), Mercury(Hg), Chromium(Cr) and Bromine(Br) in the submitted RETC sample(s) by XRF. 2. As specified by client, when screening results exceed the XRF screening limit in IEC 62321-3-1:2013, further use of chemical methods are required to test the Lead(Pb), Cadmium(Cd), BCTC Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the BCTC submitted samples. 3. As specified by client, to test the Diisobutyl phthalate (DIBP), Dibutyl phthalate(DBP), Benzyl butyl phthalate(BBP), Bis (2-ethylhexyl)phthalate(DEHP) in the submitted sample. BCTC According to the RoHS Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863 RCTC *For more detailed information, please refer to the next page***** BCTC

Tested by Weicheng Zhang

ved by

Chaobiao Zhai

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Test Method:

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BCIC

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A. Screening test by XRF spectroscopy

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1:2013.

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| BCIC | Limit of IEC 62321-3 | MDL | | | |
|---------|---|---|----------|-------------------|--|
| Element | Polymers and metals | Composite material | Polymers | Other material | |
| Pb | BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x> | BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x> | 10 mg/kg | 50 mg/kg | |
| Cd | BL≤(70-3σ) <x <(130+3σ)<br="">≤OL</x> | 10 mg/kg | 50 mg/kg | | |
| Hg | BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x> | BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x> | 10 mg/kg | 50 mg/kg | |
| Cr | BL≤(700-3σ)< X | BL≤(500-3σ)< X | 10 mg/kg | 50 mg/kg | |
| Br | BL≤(300-3σ)< X | BL≤(250-3σ)< X | 10 mg/kg | 50 mg/kg | |
| Note: | RETC | BCTC | | | |

Note:

BCTC -BL = Under the XRF screening limit

BETC -OL = Further chemical test will be conducted while result is above the screening limit

-X= The symbol "X" marks the region where further investigation is necessary

 -3σ = The reproducibility of analytical instruments

-LOD= Detection limit

B. Chemical Test

| Test Item(s) | Test Method | Measured Equipment(s) | MDL | Limit |
|---|----------------------------|--------------------------|---------|------------|
| Lead (Pb) | IEC 62321-5:2013 Ed.1.0 | ICP-OES | 2 mg/kg | 1000 mg/kg |
| Cadmium (Cd) | IEC 62321-5:2013 Ed.1.0 | ICP-OES | 2 mg/kg | 100 mg/kg |
| Mercury (Hg) | IEC 62321-4:2013+AMD1:2017 | ICP-OES | 2 mg/kg | 1000 mg/kg |
| Llovevelent Chromium Cr()//) | IEC 62321-7-1:2015 Ed.1.0 | | / | 1000 mg/kg |
| Hexavalent Chromium Cr(VI) | IEC 62321-7-2:2017 Ed.1.0 | UV-VIS | 8 mg/kg | 1000 mg/kg |
| Polybrominated Biphenyls (PBBs) | IEC 62321-6:2015 Ed.1.0 | GC-MS | 5 mg/kg | 1000 mg/kg |
| Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321-6:2015 Ed.1.0 | GC-MS | 5 mg/kg | 1000 mg/kg |
| Phthalates | IEC 62321-8:2017 Ed.1.0 | GC-MS | 50mg/kg | 1000 mg/kg |

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倍测检测 BCTC TEST

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Test Results:

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| No. | Description | Tested Items | XRF Screening Test Unit (mg/kg) | Chemical Test Unit (mg/kg) | Conclusion | | |
|-----|----------------------------|----------------|------------------------------------|-------------------------------|------------|--|--|
| BCI | <u> </u> | Pb | BL | / | · · · · | | |
| 1.1 | | Cd | BL | CTC / | | | |
| 1 | Black plastic | Hg | BL | / | PASS | | |
| | | Cr(Cr(VI)) | BL | / 60 | TC | | |
| | | Br(PBBs&PBDEs) | BL | 1 | | | |
| | | Pb | BL | / | | | |
| | Transport | Cd | BL | 1 | | | |
| 2 | Transparent - plastic - | Hg | BL | 1 | PASS | | |
| | plastic | Cr(Cr(VI)) | BL | 1 | | | |
| | | Br(PBBs&PBDEs) | BL | 1 | AFTC | | |
| | | Pb | BL | / | Bre | | |
| | Black plastic | Cd | BL | / | | | |
| 3 | | Hg | BL | / | PASS | | |
| | 0.00 | Cr(Cr(VI)) | BL | 1 | | | |
| | - | Br(PBBs&PBDEs) | 3030 | N.D. | | | |
| | | Pb | BL | / | | | |
| 15 | Black | Cd | BCI BL | / | BCIC | | |
| 4 | translucent | Hg | BL | 1 | PASS | | |
| | plastic | Cr(Cr(VI)) | BL BC | / | | | |
| | Dr. | Br(PBBs&PBDEs) | BL | 1 | in i | | |
| | | Pb | BL | / 80 | 10 | | |
| | - | Cd | BL | 1 | | | |
| 5 | Silver metal | Hg | BCBL | 1 | PASS | | |
| BC | | Cr(Cr(VI)) | 131898 | Negative | | | |
| | | Br(PBBs&PBDEs) | 1 | actC1 | | | |
| 2 | White plastic | Pb | BL | 1 | | | |
| | | Cd | BL | 1 | BCTC | | |
| 6 | | Hg | BL | 1 | PASS | | |
| | paper sheet | Cr(Cr(VI)) | BLACIC | 1 | | | |
| | BCTC | Br(PBBs&PBDEs) | BL | 1 | | | |

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| 8 | White plastic Silver plastic paper sheet | Cd Hg Cr(Cr(VI)) Br(PBBs&PBDEs) Pb Cd | BL BL BL BL BL | | PASS | |
|-----|--|--|----------------------------|--------------------------|------|--|
| BCT | Silver plastic | Cr(Cr(VI)) Br(PBBs&PBDEs) Pb | BL BL | / / CTC / | PASS | |
| | - | Br(PBBs&PBDEs) Pb | BL | / | _ | |
| 8 | - | Pb | | CTC / | 7 | |
| 8 | - | | BL | | 1 | |
| 8 | - | Cd | | / | | |
| 8 | - | | BL | / 20 | TC | |
| | paper sneet | Hg | BL | 1 | PASS | |
| 110 | | Cr(Cr(VI)) BL | | 1 | | |
| 10 | CIC | Br(PBBs&PBDEs) | BL | 1 | 1 | |
| - | | Pb | BL | / | | |
| | B | Cd | BL | 1 | | |
| 9 | Green PCB | Hg | BL | 1 | PASS | |
| | | Cr(Cr(VI)) | Cr(Cr(VI)) BL / | | Brin | |
| | | Br(PBBs&PBDEs) | 6508 | N.D. | 1 | |
| | RCTC | Pb | 1193 | 280 | | |
| | | Cd | 171 | N.D. | 1 | |
| 10 | Tin solder | Hg | BL | 1 | PASS | |
| | | Cr(Cr(VI)) | 3481 | Negative | | |
| TE | | Br(PBBs&PBDEs) | BCIT | / | BCIC | |
| C | | Pb | BL | 1 | | |
| | | Cd | BL BC | 1 | 1 | |
| 11 | Crystal | Hg | BL | 1 | PASS | |
| | | Cr(Cr(VI)) | BL | / 80 | | |
| | | Br(PBBs&PBDEs) | 1 | 1 | 1 | |
| | -É- | Pb | BL | / | B | |
| BC | | Cd | BL | 1 |] | |
| 12 | IC | Hg | BL | BCICI | PASS | |
| | 8 | Cr(Cr(VI)) | BL | 1 | | |
| ~ | | Br(PBBs&PBDEs) | BL | / | BCTC | |
| | | Pb | BL | / | | |
| | | Cd | BL | 1 | 1 | |
| 13 | SMD audion | Hg | BL | 1 | PASS | |
| | | Cr(Cr(VI)) | BL | actic |] | |
| | | Br(PBBs&PBDEs) | BL | 1 | BCTC | |

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| | | Pb | BL | 1 | | |
|------|---------------|----------------|-------|---------|------|--|
| | - | Cd | BL | | - | |
| 4.4 | | | | | PASS | |
| 14 | SMD capacitor | Hg | BL | 1 | PASS | |
| 200 | | Cr(Cr(VI)) | BL | 1 | - | |
| | 0010 | Br(PBBs&PBDEs) | BL | | | |
| | Beer | Pb | BL | 1 | | |
| | | Cd | BL | 1 80 | TC | |
| 15 | SMD resistor | Hg | BL | | PASS | |
| | 1000 | Cr(Cr(VI)) | BL | | _ | |
| | BCIT | Br(PBBs&PBDEs) | BL | / | | |
| | | Pb | BL | / | | |
| | . 8 | Cd | BL | / | 1.0 | |
| 16 | SMD diode | Hg | BL | / | PASS | |
| | | Cr(Cr(VI)) | BL | / | 00 | |
| | | Br(PBBs&PBDEs) | BL | / | | |
| | BCTC | Pb | BL | 1 | | |
| | | Cd | BL | Lorge | | |
| 17 | Red rubber | Hg | BL | 121-1 | PASS | |
| | | Cr(Cr(VI)) | BL | / | -50 | |
| TC | | Br(PBBs&PBDEs) | BL | / | BCIN | |
| Sec. | | Pb | BL | 1 | | |
| | 000 | Cd | BL BC | 1 | | |
| 18 | Purple rubber | Hg | BL | 1 | PASS | |
| | | Cr(Cr(VI)) | BL | / 80 | 10 | |
| | | Br(PBBs&PBDEs) | BL | / | | |
| | - F | Pb | BL | / | B | |
| B | a c | Cd | BL | 1 | | |
| 19 | Blue rubber | Hg | BL | BCTC/ | PASS | |
| | 8 | Cr(Cr(VI)) | BL | 1 | | |
| _ | | Br(PBBs&PBDEs) | BL | / | BCTC | |
| 1 | | Pb | BL | / | | |
| | | Cd | BL | / | 1 | |
| 20 | Black rubber | Hg | BL | / | PASS | |
| | | Cr(Cr(VI)) | BL | - orfic | 1 | |
| | | Br(PBBs&PBDEs) | BL | / | | |
| CTC | | | CTC. | 1 | BCTC | |

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| Tested Item(s) | Result Unit (mg/kg) | | | | Limit |
|---|------------------------|--------|------|------|---------------------------------------|
| | 1 | 2 | 3 | 4 | Unit (mg/kg) |
| Di-isobutyl phthalate(DIBP) CAS #:84-69-5 | N.D. | N.D. | N.D. | N.D. | C 1000 |
| Dibutyl phthalate(DBP) CAS #:84-74-2 | N.D. | - N.D. | N.D. | N.D. | 1000 |
| Benzylbutyl phthalate(BBP) CAS #:85-68-7 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Bis (2-ethylhexyl)phthalate(DEHP) CAS #:117-81-7 | N.D. | N.D. | N.D. | N.D. | 1000 |
| BCTC | 1 | | 1 | 1 | · · · · · · · · · · · · · · · · · · · |

| Tested Item(s) | Result Unit (mg/kg) | | | | Limit | |
|---|------------------------|------|------|----------|--------------|--|
| 20 | 17 | 18 | 19 | 20 | Unit (mg/kg) | |
| Di-isobutyl phthalate(DIBP) CAS #:84-69-5 | N.D. | N.D. | N.D. | N.D. | 1000 | |
| Dibutyl phthalate(DBP) CAS #:84-74-2 | N.D. | N.D. | N.D. | N.D. | 1000 | |
| Benzylbutyl phthalate(BBP) CAS #:85-68-7 | N.D. | N.D. | N.D. | N.D. | 1000 | |
| Bis (2-ethylhexyl)phthalate(DEHP) CAS #:117-81-7 | N.D. | N.D. | N.D. | N.D. | 1000 | |
| Neter | BCTC | 1 | | <u> </u> | BCIT | |

Note:

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.1µg/cm² with 50cm² sample surface area used.

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-Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than 0.13µg/cm² with 50cm² sample surface area used.

-The result data of sample 17, 18, 19 and 20 in this report are copy of the result data of sample 1, 2, 3 and 4 in this report: BCTC-FYC180115150R. BCTC

Remark:

- The screening results are only used for reference.

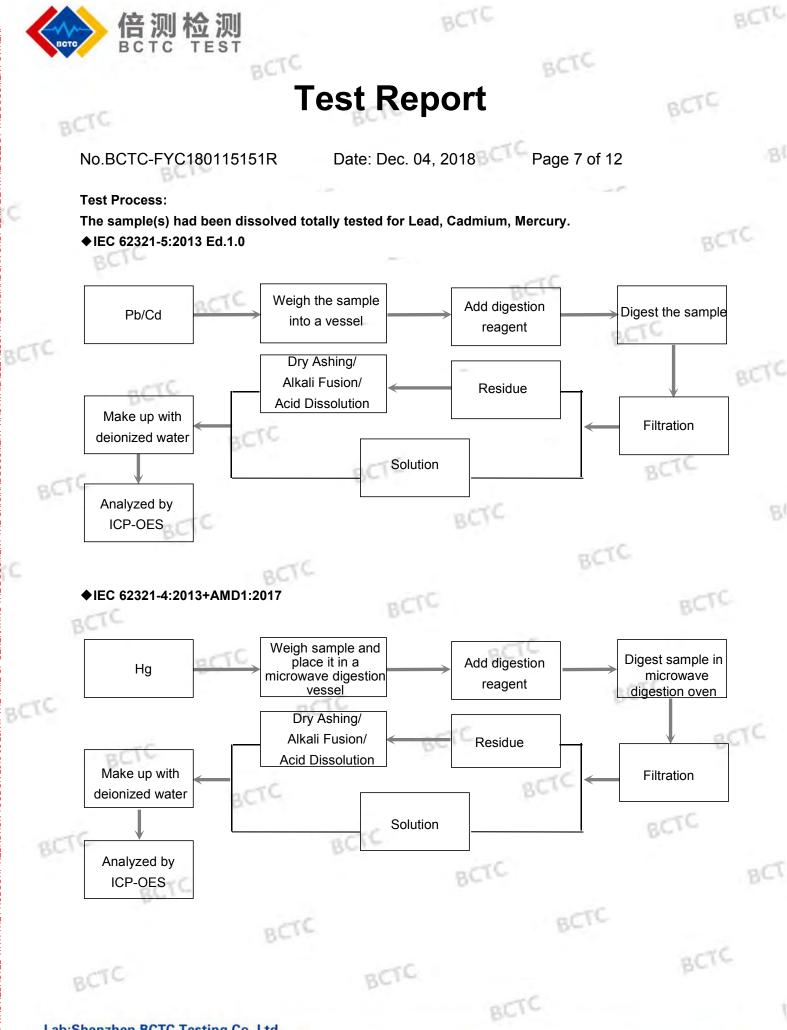
- When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.

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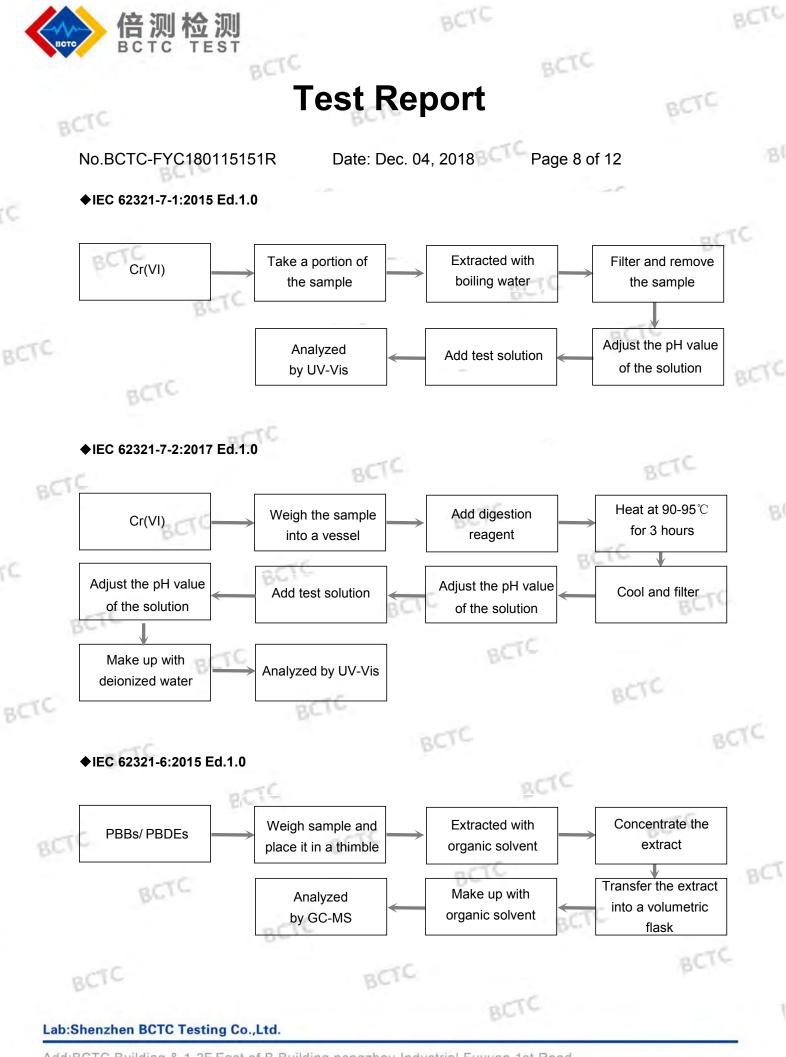
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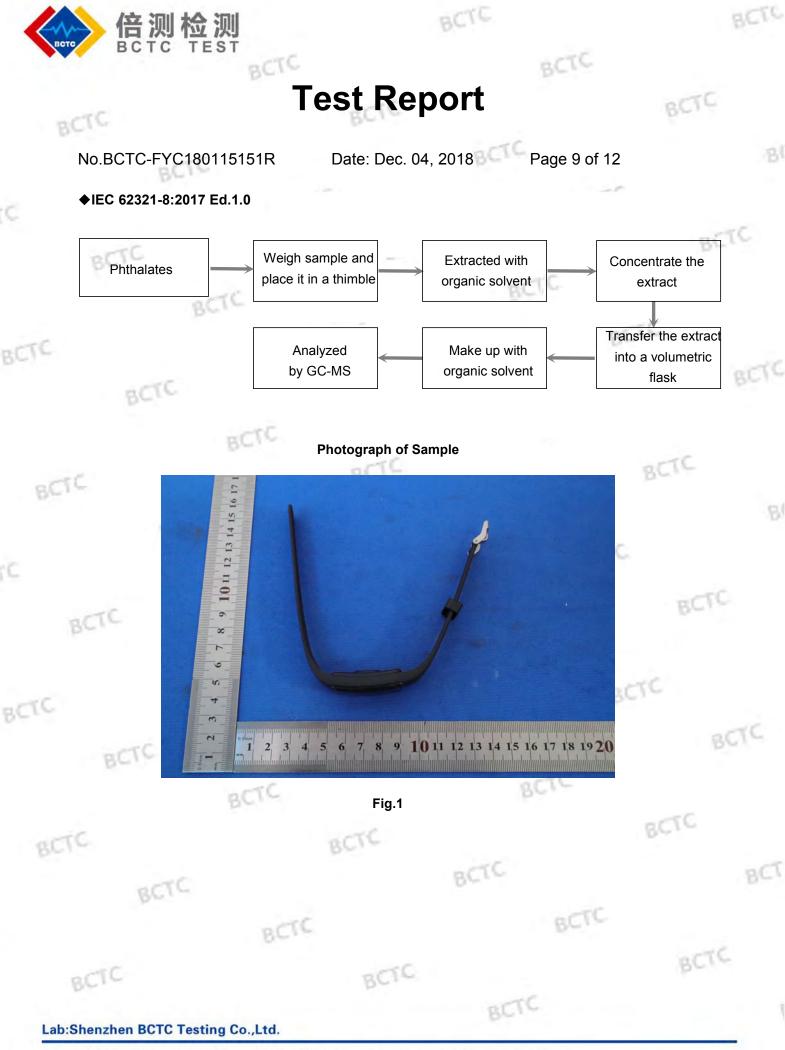
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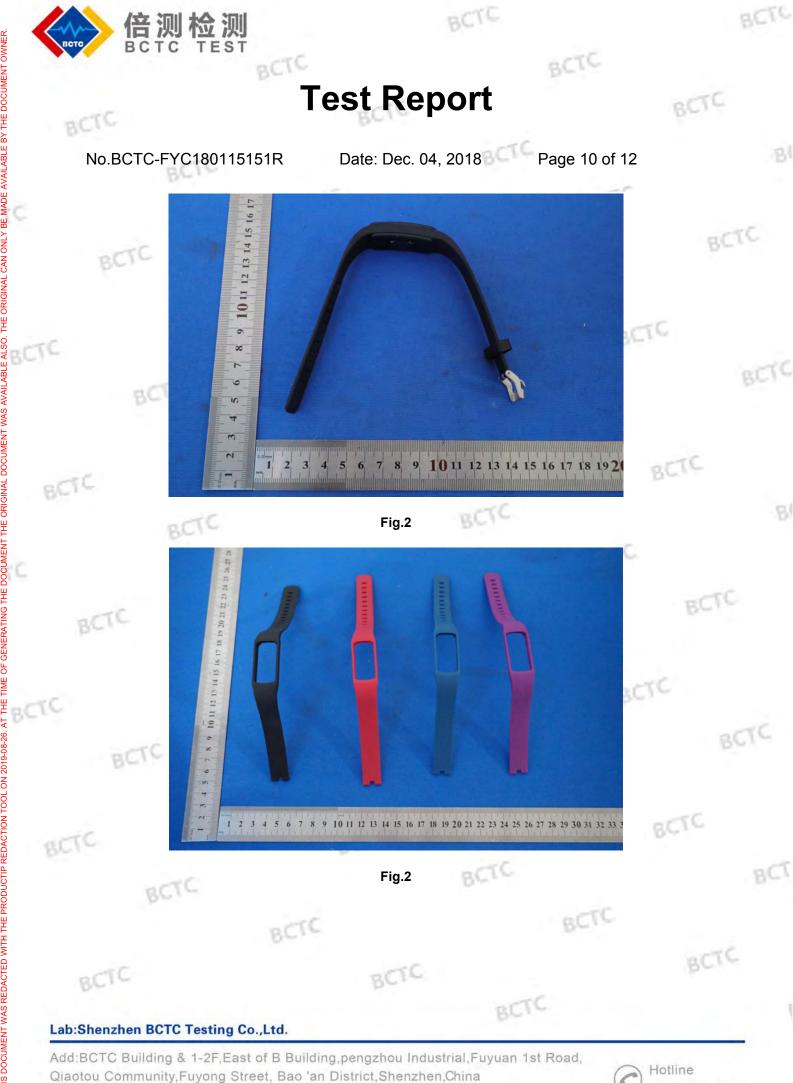




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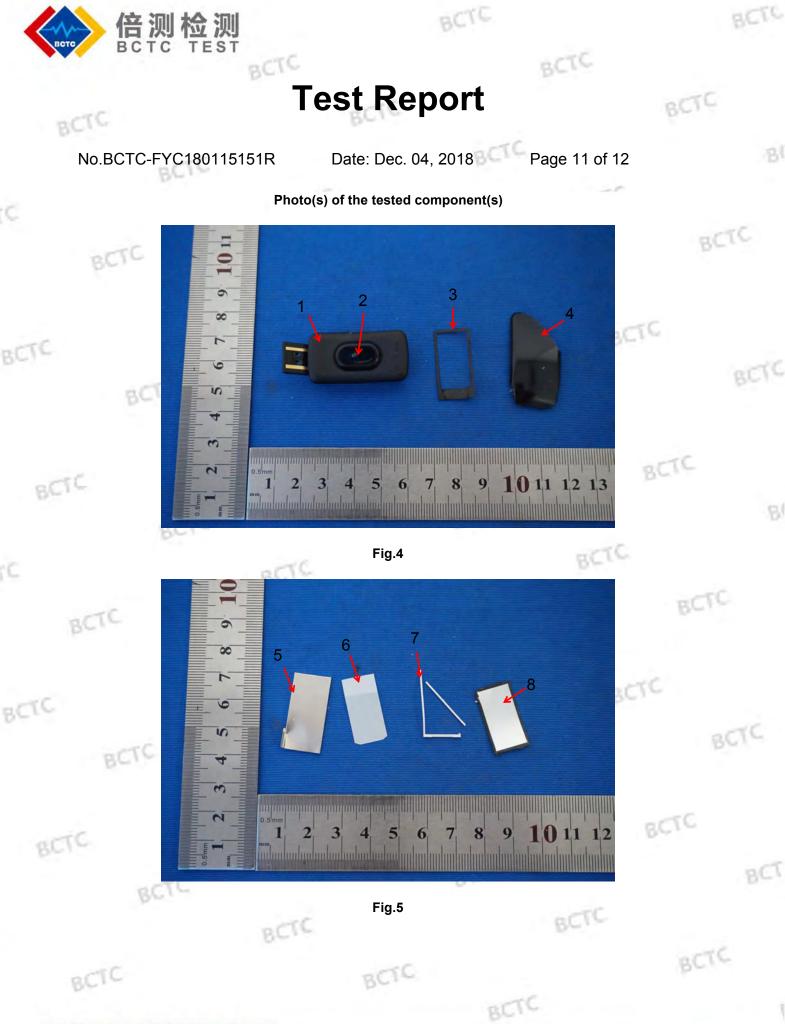
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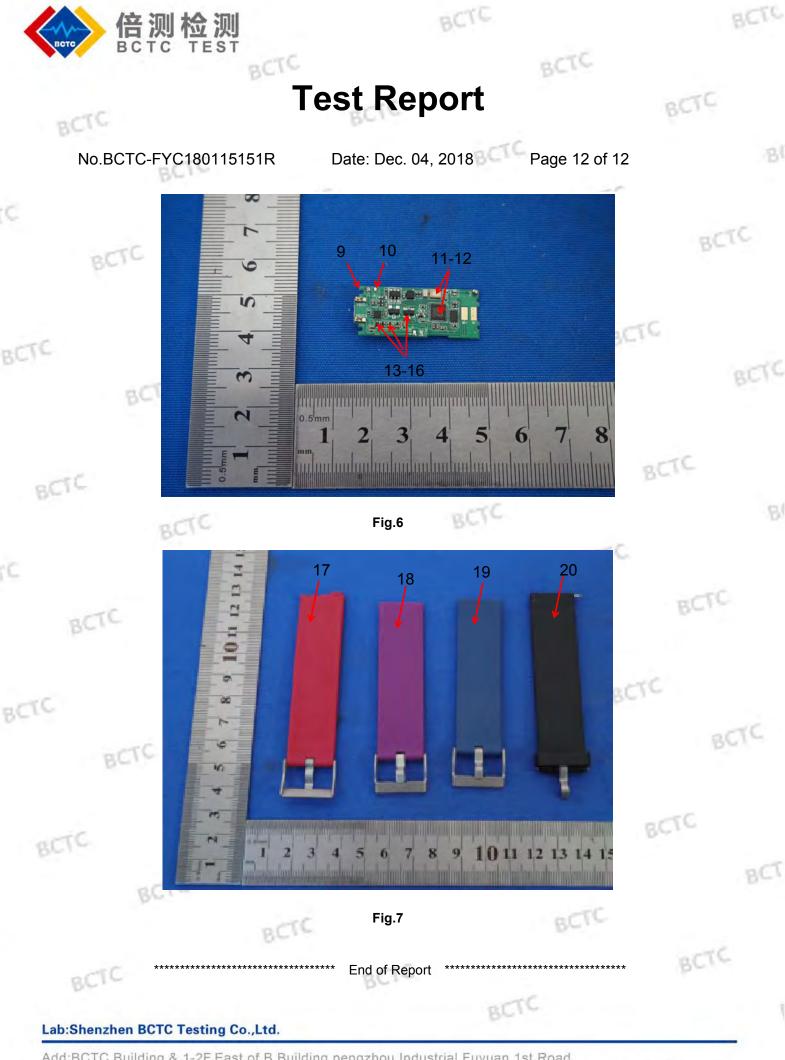
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