







Report No.:

SHE23050062-01BE

Date:

2023-07-11

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Applicant

Beijing Hipnuc Electronic Technology Co.,Ltd

Address

121, 1st Floor, Block B, No. 23 Chaoqian Road, Science and Technology Park, Changping District, Beijing

Sample Information

Sample Name

: IMU/VRU/AHRS Module

Sample Type/Specification

HI13R4T-USB-000

Sample Qty.

: 1

Sample acquisition method

Sent by client

Sample description

: Solid

Manufactory

: Beijing Hipnuc Electronic Technology Co.,Ltd

Address

121, 1st Floor, Block B, No. 23 Chaoqian Road, Science and Technology Park, Changping Di

strict, Beijing

Above information and sample(s) was/were submitted and certified by/on behalf of the applicant. ICAS was not responsible for the authenticity of the sample, and quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

Sample No.

E23050062-01

Date of Sample Received

2023-05-19

Sample Test Period

: 2023-05-19~2023-07-11

Test content:

Test Address

: 155 Pingbei Rd, Minhang District, Shanghai

Test Items

: Please refer to next page(s).

Test Methods

IEC 61249-2-21:2003;IEC 62321-3-1:2013; IEC 62321-4:2013+AMD1:2017;IEC 62321-5:2013;

IEC 62321-7-1:2015;

Test Results

: Please refer to next page(s).

ICAS TESTINGTECHNOLOGY SERVICE

(SHANGHAI) Co.,LTD

Prepared by

新芸Reviewed by

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Approved by

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(Daniel Zhao)

(Authorized signatory: Rachel Wang)

英格尔检测技术服务(上海)有限公司 ICAS TESTING TECHNOLOGY SERVICE (SHANGHAI) CO., LTD NCA 1631257





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一、Halogen#*

Test Requested and Conclusion(s):

| No. | Standard and Requirement | Conclusion(s) |
|-----|-----------------------------|---------------|
| 1 | IEC 61249-2-21:2003 Halogen | PASS |

Test Material List

| Material No. | Sample Description | Location |
|--------------|---|----------------|
| 1* | Green plastic with white printing with printing with glue | Tags |
| 3 | Green plastic with white printing with metal foil | PCB |
| 4* | Dark gray plastic | Plug lining(S) |

Note: The testing material(s) marked"* "is (are) taken from components/raw material(s).

Test Results

| No. | Substances Name | CAS No. | Limit | Reporting Limit | Result(mg/kg) |
|------|--------------------|------------|---------|-----------------|---------------|
| 140. | Substances Ivallie | CAS No. | (mg/kg) | (mg/kg) | 1*1 |
| 1 | Fluorine(F)#* | 7782-41-4 | | 50 | N.D. |
| 2 | chlorine(Cl)#* | 7782-50-5 | 900 | 50 | N.D. |
| 3 | Bromine(Br)#* | 7726-95-6 | 900 | 50 | N.D. |
| 4 | lodine(1)#* | 12190-71-5 | | 50 | N.D. |
| 5 | Sum (Cl+Br)#* | - | 1500 | 50 | N.D. |
| | | Conclusion | | | PASS |

| No. Substances Name | CAS No. | Limit | Reporting Limit | Result(| (mg/kg) | |
|---------------------|-----------------|------------|-----------------|---------|---------|------|
| NO. | Substances Name | CAS No. | (mg/kg) | (mg/kg) | 3 | 4*1 |
| 1 | Fluorine(F)#* | 7782-41-4 | - | 50 | N.D. | N.D. |
| 2 | chlorine(Cl)#* | 7782-50-5 | 900 | 50 | N.D. | N.D. |
| 3 | Bromine(Br)#* | 7726-95-6 | 900 | 50 | N.D. | N.D. |
| 4 | lodine(1)#* | 12190-71-5 | | 50 | N.D. | N.D. |
| 5 | Sum (Cl+Br)#* | | 1500 | 50 | N.D. | N.D. |
| | - | a) | PASS | PASS | | |

NOTE:

- 1. mg/kg = mlligram per kilogram (ppm).
- 2. N.D. = Not Detected (Less than Reporting Limit).
- 3. Insoluble halides present in the original sample or produced during the combustion step arenot completely determined by these methods.
- 4. Except for special requirements of clients, halogen contents are calculated and reported ondry matter.
- 5.*1 = This sample was received on Jun.12, 2023.





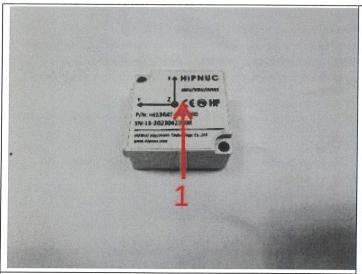
Report No.: SHE23050062-01BE

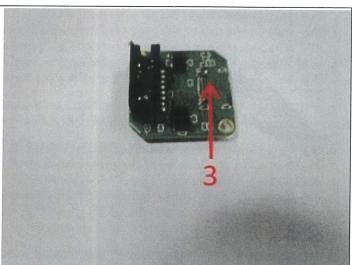
Date:

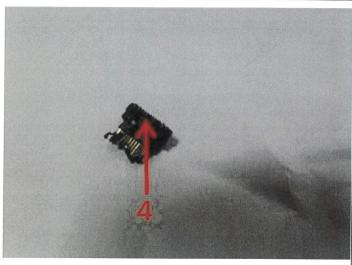
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Location indication











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二、RoHS

Test Conclusion(s):

The results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls(PBBs), Polybrominated diphenyl ethers(PBDEs) and Phthalates such as Di-(2-ethylhexyl)Phthalate (DEHP), Benzylbutyl Phthalate (BBP), Dibutyl Phthalate (DBP), and Diisobutyl phthalate(DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

| Test part ID | Test part description |
|--------------|---------------------------------|
| 1 | White label with black printing |
| 2 | Metal case |
| 3 | Screws |
| 4 | Metal wire |
| 5 | Black plastic |
| 6 | Electronic components |
| 7 | Metal sheet |
| 8 | Black plastic |
| 9 | Metal wire |
| 10 | Metal sheet |
| 11 | Electronic components |
| 12 | Electronic components |
| 13 | Electronic components |
| 14 | PCB board |
| 15 | Electronic components |
| 16 | Electronic components |
| 17 | Electronic components |





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Test Results:

| Test part ID | Test Items | Unit | Chemical test method | XRF Screening | Limit | Conclusion |
|--------------|---------------------|---|----------------------|---------------|-------|------------|
| | Pb | mg/kg | NT | P | ≤1000 | Pass |
| = | Cd | mg/kg | NT | P | ≤100 | Pass |
| 1 | Hg | mg/kg | . NT | P | ≤1000 | Pass |
| | Total Chromium (Cr) | mg/kg | NT | P | ≤1000 | Pass |
| | Total Bromine (Br) | Pb mg/kg NT P ≤1000 Cd mg/kg NT P ≤1000 Hg mg/kg NT P ≤1000 romium (Cr) mg/kg NT P ≤1000 romium (Br) mg/kg NT P ≤1000 Pb mg/kg NT P ≤1000 Cd mg/kg NT P ≤1000 Hg mg/kg NT P ≤1000 Cr VI μg/cm² Negative X / Pb mg/kg NT P ≤1000 Cd mg/kg NT P ≤1000 Cr VI μg/cm² Negative X / Pb mg/kg NT P ≤1000 Cd mg/kg NT P ≤1000 romium (Cr) mg/kg NT P ≤1000 Pb mg/kg NT P ≤1000 <t< td=""><td>Pass</td></t<> | Pass | | | |
| | Pb | mg/kg | 27 | X | ≤1000 | Pass |
| 2 | Cd | mg/kg | NT | P | ≤100 | Pass |
| 2 | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Cr VI | μg/cm ² | Negative | X | / | / |
| | Pb | mg/kg | NT | P | ≤1000 | Pass |
| 2 | Cd | mg/kg | NT | P | ≤100 | Pass |
| 3 | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Cr VI | μg/cm ² | Negative | X | / | 1 |
| 4 | Pb | mg/kg | NT | P | ≤1000 | Pass |
| | Cd | mg/kg | NT | P | ≤100 | Pass |
| | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Total Chromium (Cr) | mg/kg | NT | P | ≤1000 | Pass |
| | Pb | mg/kg | NT | P | ≤1000 | Pass |
| | Cd | mg/kg | NT | P | ≤100 | Pass |
| 5 | Hg | mg/kg | NT | P | ≤1000 | Pass |
| 5 | Total Chromium (Cr) | mg/kg | NT | P | ≤1000 | Pass |
| | Total PBBs | mg/kg | ND | v | ≤1000 | Pass |
| | Total PBDEs | mg/kg | ND | Λ | ≤1000 | Pass |
| | Pb | mg/kg | NT | P | ≤1000 | Pass |
| | Cd | mg/kg | NT | P | ≤100 | Pass |
| 6 | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Total Chromium (Cr) | mg/kg | NT | P | ≤1000 | Pass |
| | Total Bromine (Br) | mg/kg | NT | P | ≤1000 | Pass |
| | Pb | mg/kg | NT | P | ≤1000 | Pass |
| 7 | Cd | mg/kg | NT | P | ≤100 | Pass |
| , | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Cr VI | μg/cm ² | Negative | X | / | / |





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| Test part ID | Test Items | Unit | Chemical test method | XRF Screening | Limit | Conclusion |
|--------------|---------------------|--|----------------------|--|---|------------|
| | Pb | mg/kg | ND | X | ≤1000 | Pass |
| | Cd | mg/kg | ND | X | ≤100 | Pass |
| 8 | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Cr VI | mg/kg | ND | X | ≤1000 | Pass |
| | Total Bromine (Br) | mg/kg ND X ≤1000 mg/kg NT P ≤1000 mg/kg NT P ≤1000 mg/kg ND X ≤100 mg/kg ND X ≤100 mg/kg ND X ≤100 mg/kg NT P ≤1000 | Pass | | | |
| | Pb | mg/kg | NT | P | ≤1000 | Pass |
| 0 | Cd | mg/kg | ND | X | ≤100 | Pass |
| 9 | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Total Chromium (Cr) | mg/kg | NT | P | ≤1000 | Pass |
| , | Pb | mg/kg | NT | P | ≤1000 | Pass |
| 10 | Cd | mg/kg | 10 | X | ≤100 | Pass |
| 10 | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Cr VI | μg/cm ² | Negative | X | / | / |
| | Pb | mg/kg | NT | P | ≤1000 | Pass |
| | Cd | mg/kg | NT | P | ≤100 | Pass |
| 11 | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Total Chromium (Cr) | mg/kg | NT | P | ≤1000 | Pass |
| 12 | Pb | mg/kg | NT | P | ≤1000 | Pass |
| | Cd | mg/kg | NT | P | ≤100 | Pass |
| | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Total Chromium (Cr) | mg/kg | NT | P | ≤1000 | Pass |
| | Total Bromine (Br) | mg/kg | NT | P | ≤1000 | Pass |
| | Pb | mg/kg | NT | P | ≤1000 | Pass |
| | Cd | mg/kg | NT | P | ≤100 | Pass |
| 13 | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Total Chromium (Cr) | mg/kg | NT | P | ≤1000 | Pass |
| | Total Bromine (Br) | | NT | P | $\begin{array}{c cccc} X & \leq 100 \\ P & \leq 1000 \\ X & \leq 1000 \\ P & \leq 1000 \\ P & \leq 1000 \\ P & \leq 1000 \\ X & \leq 100 \\ P & \leq 1000 \\ P & \leq 1000 \\ P & \leq 1000 \\ X & \leq 100 \\ P & \leq 1000 \\ X & & / \\ P & \leq 1000 \\$ | Pass |
| | Pb | mg/kg | NT | P | ≤1000 | Pass |
| | Cd | mg/kg | NT | P | ≤100 | Pass |
| 14 | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Total Chromium (Cr) | mg/kg | NT | P | ≤1000 | Pass |
| | Total Bromine (Br) | | NT | P | ≤1000 | Pass |
| | Pb | | NT | P | ≤1000 | Pass |
| | Cd | | NT | P | ≤100 | Pass |
| 15 | Hg | | NT | ND X ≤1000 NT P ≤1000 ND X ≤1000 NT P ≤1000 < | ≤1000 | Pass |
| | Total Chromium (Cr) | mg/kg | NT | P | ≤1000 | Pass |
| | Total Bromine (Br) | mg/kg | NT | P | | Pass |

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| Test part ID | Test Items | Unit | Chemical test method | XRF Screening | Limit | Conclusion |
|--------------|---------------------|--------------------|----------------------|---------------|-------|------------|
| | Pb | mg/kg | NT | P | ≤1000 | Pass |
| 16 | Cd | mg/kg | ND | X | ≤100 | Pass |
| 10 | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Cr VI | μg/cm ² | Negative | X | / | / . |
| | Pb | mg/kg | NT | P | ≤1000 | Pass |
| | Cd | mg/kg | NT | P | ≤100 | Pass |
| 17 | Hg | mg/kg | NT | P | ≤1000 | Pass |
| | Total Chromium (Cr) | mg/kg | NT | P | ≤1000 | Pass |
| | Total Bromine (Br) | mg/kg | NT | P | ≤1000 | Pass |





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| Test par | rt ID | Test part description | |
|----------|-------|---------------------------------|--|
| | 1 | White label with black printing | |
| | 5 | Black plastic | |
| | 6 | Electronic components | |
| | 8 | Black plastic | |
| S1 | 12 | Electronic components | |
| | 14 | PCB board | |
| | 13 | Electronic components | |
| | 15 | Electronic components | |
| | 17 | Electronic components | |





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| Test part ID | Test Items | Unit | Test Results | Limit | Conclusion |
|--------------|------------------------------------|-------|--------------|-------|------------|
| | Dibutyl Phthalate (DBP)* | mg/kg | ND | ≤1000 | Pass |
| S1 | Benzylbutyl Phthalate (BBP)* | mg/kg | ND | ≤1000 | Pass |
| 51 | Di-(2-ethylhexyl)Phthalate (DEHP)* | mg/kg | ND | ≤1000 | Pass |
| | Diisobutyl phthalate(DIBP)* | mg/kg | ND | ≤1000 | Pass |

Remarks:

- 1.P = Pass (Below Limit, See Table A)
- 2.X= Inconclusive(need further chemical analysis, See Table A)
- 3.F=Fail(Over Limit, ,See Table A)
- 4.NA=Not Applicable
- 5.MDL=Method Detection Limit (See Table B)
- 6.N.D.=Not detected (<MDL)
- 7.--= Not regulated
- 8.NT=Not Tested
- 9.mg/kg=1ppm=0.0001%

10.PBBs include Monobromobiphenyl (MonoBB). Dibromobiphenyl (DiBB). Tribromobiphenyl (TriBB). Tetrabromobiphenyl (TetraBB). Pentabromobiphenyl (PentaBB). Hexabromobiphenyl (HexaBB). Heptabromobiphenyl (HeptaBB).

Octabromobiphenyl (OctaBB). Nonabromobiphenyl (NonaBB) and Decabromobiphenyl (DecaBB).

PBDEs include Monobromodiphenyl ether (MonoBDE). Dibromodiphenyl ether (DiBDE). Tribromodiphenyl ether (TriBDE).

Tetrabromodiphenyl ether (TetraBDE), Pentabromodiphenyl ether (PentaBDE), Hexabromodiphenyl ether (HexaBDE),

Heptabromodiphenyl ether (HeptaBDE). Octabromodiphenyl ether (OctaBDE). Nonabromodiphenyl ether (NonaBDE) and Decabromodiphenyl ether (DecaBDE)

11.Boiling-water-extraction:

Negative = Absence of CrVI coating, the detected concentration in boiling -water-extraction solution is less than $0.10 \mu g/cm^2$ equivalent comparison standard solution.

Positive = Presence of CrVI coating, the detected concentration in boiling -water-extraction solution is greater than 0.13µg/cm² equivalent comparison standard solution.

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

12. ▲ Applications exempted from the restriction in Article 4(1) according to ANNEX III of EU DIRECTIVE 2011/65/EU (amended by (EU) 2018/741):

6c)Copper alloy containing up to 4 % lead by weight

Table A: Screening limits in mg/kg for regulated elements in various matrices

| Element | Polymer | Metal | Composite Materials |
|---------|--|--|---------------------------------|
| Cd | $P \le (70-3\sigma) < X < (130+3\sigma) \le F$ | $P \le (70-3\sigma) < X < (130+3\sigma) \le F$ | $LOD < X < (150+3\sigma) \le F$ |
| Pb | $P \le (700-3\sigma) < X < (1300+3\sigma) \le F$ | $P \le (700-3\sigma) < X < (1300+3\sigma) \le F$ | P ≤(500-3σ)< X<(1500+3σ)≤ F |
| Hg | $P \le (700-3\sigma) < X < (1300+3\sigma) \le F$ | $P \le (700-3\sigma) < X < (1300+3\sigma) \le F$ | P ≤(500-3σ)< X <(1500+3σ)≤ F |
| Br | $P \le (300-3\sigma) < X$ | | $P \le (250-3\sigma) < X$ |
| Cr | $P \le (700-3\sigma) < X$ | $P \le (700-3\sigma) < X$ | $P \le (500-3\sigma) < X$ |





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Remark:

1.XRF Screening

These are the results on total Br while test items on hazardous substances are PBBs and PBDEs.

This is the result on total Cr while test item on hazardous substances is Cr(VI).

Results are obtained by XRF 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 IEC 62321-3-1:2013

2. The reading may be different to the actual content in the sample due to non-uniformity composition.

Table B:Chemical test method

| Item | Test Method | MDL |
|-----------------------|--|------------------------|
| Pb | With reference to IEC 62321-5:2013, by acid digestion and determined by ICP-OES | 10mg/kg |
| Cd | With reference to IEC 62321-5:2013, by acid digestion and determined by ICP-OES | 2mg/kg |
| Hg | With reference to IEC 62321-4:2013, by acid digestion and determined by ICP-OES | 10mg/kg |
| Cr(VI)(For non-metal) | With reference to IEC 62321-7-2:2017 ,by alkaline digestion and determined by UV-VIS spectrophotometer | 20mg/kg |
| Cr(VI)(For metal) | With reference to IEC 62321-7-1:2015 ,determined by UV-VIS spectrophotometer | 0.10μg/cm ² |
| PBBs | With reference to IEC 62321-6:2015, determined by GC-MS | 5mg/kg |
| PBDEs | With reference to IEC 62321-6:2015, determined by GC-MS | 5mg/kg |
| DBP | With reference to IEC 62321-8:2017,determined by GC-MS | 50mg/kg |
| BBP | With reference to IEC 62321-8:2017, determined by GC-MS | 50mg/kg |
| DEHP | With reference to IEC 62321-8:2017,determined by GC-MS | 50mg/kg |
| DIBP | With reference to IEC 62321-8:2017,determined by GC-MS | 50mg/kg |





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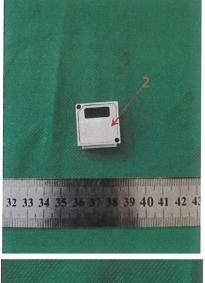
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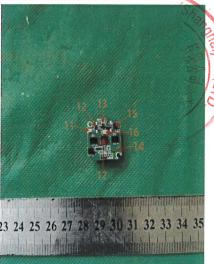












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End of the report

吉明

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Note: "*in the report indicates that it is not included in the scope of CNAS, "§" indicates that it is not included in the CMA scope of ICAS.

2."#"号代表数据来源于指定的签约实验室

" # " indicated that data comes from designated contracted lab:

CMA 资质认定证书编号 CMA Certificate No:

广东省中鼎检测技术有限公司

CNAS 注册号 CNAS Registration No:

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