

No.: 240703070GZU-001

Date: Jul 31, 2024

Applicant: UNI-TREND TECHNOLOGY (CHINA) CO., LTD.

No 6, Gong Ye Bei 1 st Road, Songshan Lake National High-Tech Industrial Development Zone, Dongguan, Guangdong

Province, China

Sample Description:

The following submitted sample(s) said to be:

Item Name : Professional Thermal Imager

Model No. : UTi160S

Date of Sample Received : Jul 4, 2024 & Jul 23, 2024
Testing Period : Jul 4, 2024 to Jul 26, 2024

Tests conducted:

As requested by the applicant, refer to following page(s) for details.

Conclusion:

| Tested Sample | Standard | Result |
|---------------------------------------|--|--------|
| Tested components of submitted sample | Screening by XRF spectroscopy and chemical confirmation test for RoHS Directive 2011/65/EU and (EU) 2015/863 | Pass |

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch:

Prepared by:

Bryce Lai

Project Engineer

Reviewed by:

Michael Pang

Asst. Technical Supervisor



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Certain Hazardous Substance in Electrical and Electronic Equipment

Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) content were measured with reference to IEC 62321-3-1 Edition 1.0: 2013 by XRF spectroscopy and chemical confirmation test for RoHS restricted substances. And Polybrominated Biphenyls (PBBs),Polybrominated Diphenyl Ethers (PBDEs) and Phthalates content were determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

(A) Results:

| Screened Components | Items | XRF Results | Screened Results(phthalates) | Chemical Confirmation Result |
|------------------------|--------|-------------|---------------------------------|---------------------------------|
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 1 | Br | ND | | |
| | DEHP | | Р | |
| | BBP | NA | P | NT |
| | DBP | INA | Р | IN I |
| | DIBP | | Р | |
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | 7 | |
| 2 | Br | ND | | |
| | DEHP | | Р | |
| | BBP | NΙΛ | Р | NT |
| | DBP NA | Р | | |
| | DIBP | | Р | |
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 3 | Br | ND | | |
| | DEHP | | Р | |
| | BBP | NA | Р | NT |
| | DBP | INA | Р | T INI |
| | DIBP | | Р | 1 |
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 4 | Br | ND | | |
| | DEHP | | Р | |
| | BBP | NIA | Р |] NT |
| | DBP | NA | Р | NT |
| | DIBP | | Р | |



| Screened Components | Items | XRF Results | Screened Results(phthalates) | Chemical Confirmation Result |
|------------------------|--------------|--------------|---------------------------------|---------------------------------|
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | Cr ⁶⁺ : Negative |
| | Cr | Inconclusive | 1 | |
| 5 | 5 Br NT DEHP | | | |
| | | | | |
| | | NIA | | |
| | DBP | NA | NA | NA |
| | DIBP | | | |
| | Cd | ND | | |
| | Pb | ND | - | |
| | Hg | ND | NA | NT |
| | Cr | ND ND | - | 141 |
| 6 | Br | ND ND | - | |
| 0 | | טאו | Р | |
| | DEHP BBP | | P | - |
| | | NA | | NT |
| | DBP | | <u>Р</u> | - |
| | DIBP | ND | Ρ | |
| | Cd | ND | NA | |
| | Pb | >1300mg/kg | | |
| | Hg | ND | | Pb:25974mg/kg# |
| | Cr | ND | | |
| 7 | Br | NT | | |
| | DEHP | NA NA | | |
| | BBP | | NA NA | NA |
| | DBP | 100 | 1.0.1 | |
| | DIBP | | | |
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 8 | Br | ND | | |
| | DEHP | | Р | |
| | BBP | NA | Р | NT |
| | DBP | INA | Р | INI |
| | DIBP | | Р | |
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | 1 | |
| 9 | Br | ND | 1 | |
| | DEHP | · | Р | |
| | BBP | | P | |
| | DBP | NA | P | - NT |
| | DIBP | | P | 1 |
| | אוטר | | Г | |



| Screened Components | Items | XRF Results | Screened Results(phthalates) | Chemical Confirmation Result |
|------------------------|-------|-------------|---------------------------------|---------------------------------|
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | 7 | |
| 10 | Br | ND | 7 | |
| | DEHP | | Р | |
| | BBP | | Р | 1 |
| | DBP | NA | Р | NT |
| | DIBP | | Р | |
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA | NT |
| | Cr | ND | 1 | |
| 11 | Br | ND | 1 | |
| | DEHP | ND | Р | |
| | BBP | | P | _ |
| | DBP | NA | P | - NT |
| | DIBP | | P | |
| | Cd | ND | <u>'</u> | |
| | Pb | ND | NA | |
| | • | ND ND | | NT |
| | Hg | | - NA | INI |
| 12 | Cr | ND ND | | |
| 12 | Br | ND | | ND |
| | DEHP | | | |
| | BBP | NA | NT | ND |
| | DBP | _ | | ND |
| | DIBP | | | ND |
| | Cd | ND | 4 | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | 4 | |
| 13 | Br | ND | | |
| | DEHP | | | ND |
| | BBP | NA | NT | ND |
| | DBP | | | ND |
| | DIBP | | | ND |
| | Cd | ND | | |
| | Pb | >1300mg/kg | | |
| | Hg | ND | NA | Pb:22401mg/kg# |
| | Cr | ND | | |
| 14 | Br | NT | | |
| | DEHP | | | |
| | BBP | NA | NA | NA |
| | DBP | INA | INA | |
| | DIBP | | | |



| Screened Components | Items | XRF Results | Screened Results(phthalates) | Chemical Confirmation Result |
|------------------------|-------|-------------|---------------------------------|---------------------------------|
| | Cd | ND | NA | |
| | Pb | >1300mg/kg | | |
| | Hg | ND | | Pb:19639mg/kg# |
| | Cr | ND | | |
| 15 | Br | NT | | |
| | DEHP | | | |
| | BBP | NA | NA | NA |
| | DBP | INA | INA | INA |
| | DIBP | | | |
| | Cd | ND | | |
| | Pb | >1300mg/kg | | |
| | Hg | ND | NA | Pb:20682mg/kg# |
| | Cr | ND | | |
| 16 | Br | NT | | |
| | DEHP | | | |
| | BBP | NA | NA | NA |
| | DBP | INA | INA | NA NA |
| | DIBP | | | |
| | Cd | ND | NA | |
| | Pb | ND | | |
| | Hg | ND | | NT |
| | Cr | ND | | |
| 17 | Br | NT | | |
| | DEHP | | | |
| | BBP | NA NA | NA | |
| | DBP | INA | INA | NA NA |
| | DIBP | | | |
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 18 | Br | ND | | |
| | DEHP | | Р | |
| | BBP | NA | Р | NT |
| | DBP | INA | Р | INI |
| | DIBP | | Р | |
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 19 | Br | ND | | |
| | DEHP | | | ND |
| | BBP | NΙΛ | NIT | ND |
| | DBP | NA | NT | ND |
| | DIBP | | | ND |



| Screened Components | Items | XRF Results | Screened Results(phthalates) | Chemical Confirmation Result |
|------------------------|-------|--------------|---------------------------------|---------------------------------|
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 20 | Br | ND | | |
| | DEHP | | | ND |
| | BBP | NA | NT | ND |
| | DBP | INA | l IVI | ND |
| | DIBP | | | ND |
| | Cd | ND | | |
| | Pb | ND | | DDD ND |
| | Hg | ND | NA | PBBs : ND PBDEs : ND |
| | Cr | ND |] | PBDES . ND |
| 21 | Br | Inconclusive | = | |
| | DEHP | | Р | |
| | BBP | NIA | Р | N.T. |
| | DBP | NA | Р | NT |
| | DIBP | | Р | 1 |
| | Cd | ND | NA | |
| | Pb | ND | | |
| | Hg | ND | | NT |
| | Cr | ND | | |
| 22 | Br | ND | 1 | |
| | DEHP | P | Р | |
| | BBP | | 1 | |
| | DBP | NA | P | - NT |
| | DIBP | | P | 1 |
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA NA | NT |
| | Cr | ND | 1 | |
| 23 | Br | ND | - | |
| _• | DEHP | . 10 | | ND |
| | BBP | | | ND |
| | DBP | NA | NT | ND |
| | DIBP | | | ND |
| | Cd | ND | | 1,15 |
| | Pb | ND | 1 | |
| | Hg | ND | NA | NT |
| ŀ | Cr | ND | - | INI |
| 24 | Br | NT | - | |
| <u> </u> | DEHP | 111 | | |
| | BBP | | | |
| | DBP | NA | NA | NA |
| | DIBP | | | |
| | אסוע | | | |



| Screened Components | Items | XRF Results | Screened Results(phthalates) | Chemical Confirmation Result |
|------------------------|-------------|-------------|---------------------------------|---------------------------------|
| | Cd | ND | | |
| | Pb | ND | | DDD ND |
| | Hg | ND | NA | PBBs : ND PBDEs : ND |
| | Cr | ND | | PBDES . ND |
| 25 | | 1 | | |
| | DEHP | | Р | |
| | DDD D | 1 | | |
| | DBP | NA | Р | - NT |
| | DIBP | | Р | |
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA | NT |
| | Cr | ND | 1 | |
| 26 | Br | ND | - | |
| | DEHP | ND | Р | |
| | BBP | | P P | - |
| | DBP | NA | | NT |
| | DIBP | | P | - |
| | Cd | ND | · · | |
| | Pb | ND | NA NA | |
| | Hg | ND ND | | NT |
| | | | - INA | 101 |
| 27 | Cr | ND ND | - | |
| 21 | Br | ND | P | |
| | DEHP BBP | NA P | | - |
| | | | - NA - | P |
| | DBP | | P | - |
| | DIBP | ND | P | |
| | Cd | ND | - | |
| | Pb | ND | - | NIT |
| | Hg | ND | NA | NT |
| 00 | Cr | ND | - | |
| 28 | Br | ND | | |
| | DEHP | | P | |
| | BBP | NA | Р | NT |
| | DBP | | P | _ |
| | DIBP | .,- | Р | |
| | Cd | ND | - | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | - | |
| 29 | Br | ND | _ | |
| | DEHP | | P | _ |
| | BBP | NA | P | NT |
| | DBP | | Р | INI |
| | DIBP | | Р | |



| Screened Components | Items | XRF Results | Screened Results(phthalates) | Chemical Confirmation Result |
|------------------------|-------|-------------|---------------------------------|---------------------------------|
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 30 | Br | ND | 1 | |
| | DEHP | | Р | |
| | BBP | NIA | Р | T NT |
| | DBP | NA | Р | - NT |
| | DIBP | | Р | 7 |
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA NA | NT |
| | Cr | ND | 1 | |
| 31 | Br | ND | 1 | |
| | DEHP | | Р | |
| | BBP | | Р | i |
| | DBP | NA | Р | - NT |
| | DIBP | | P | 1 |
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND ND | ┨ | ''' |
| 32 | Br | ND ND | † | |
| 02 | DEHP | ND | Р | |
| | BBP | NA NA | P | - |
| | DBP | | P | NT |
| | DIBP | | P | - |
| | Cd | ND | <u>'</u> | + |
| | Pb | ND ND | † | |
| | Hg | ND ND | NA | NT |
| | Cr | ND | - | ''' |
| 33 | Br | ND ND | - | |
| | DEHP | IND | P | |
| | BBP | | P | - |
| | DBP | NA | P | - NT |
| | DIBP | | P | - |
| | Cd | ND | 1 | |
| | Pb | ND | - | |
| | Hg | ND | NA | NT |
| 34 | Cr | ND | - 'N' | 141 |
| | Br | ND | - | |
| J 4 | | טאו | Р | |
| } | DEHP | | P | - |
| } | BBP | NA | P | - NT |
| | DBP | | P | - |
| | DIBP | | P | |



| Screened Components | Items | XRF Results | Screened Results(phthalates) | Chemical Confirmation Result |
|------------------------|-------|--------------|---------------------------------|---------------------------------|
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | 1 | |
| 35 | Br | ND | 1 | |
| | DEHP | NA | Р | |
| | BBP | | Р |] NT |
| | DBP | | Р | - NT |
| | DIBP | | Р | |
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA | NT |
| | Cr | ND | 1 | |
| 36 | Br | NT | 1 | |
| | DEHP | | | |
| | BBP | | NA | NA |
| | DBP | NA | | |
| | DIBP | | | |
| | Cd | ND | NA NA | PBBs : ND |
| | Pb | ND | | |
| | Hg | ND | | |
| | Cr | ND | | PBDEs : ND |
| 37 | Br | Inconclusive | | |
| 0. | DEHP | moonoidaive | Р | |
| | BBP | - NA | P | - |
| | DBP | | P | NT |
| | DIBP | | P | |
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA NA | PBBs : ND |
| | Cr | ND | - | PBDEs : ND |
| 38a | Br | Inconclusive | 1 | |
| | DEHP | | | ND |
| | BBP | | | ND |
| | DBP | NA | NT | ND |
| | DIBP | | | ND |
| | Cd | ND | | 1,12 |
| | Pb | ND | 1 | |
| | Hg | ND | NA | NT |
| ŀ | Cr | ND | 1 | 141 |
| 38b | Br | NT | 1 | |
| | DEHP | 111 | | |
| | BBP | | | |
| | DBP | NA | NA | NA |
| | DIBP | | | |
| | אסוט | | 1 | 1 |



| Screened Components | Items | XRF Results | Screened Results(phthalates) | Chemical Confirmation Result |
|------------------------|-------|--------------|---------------------------------|---------------------------------|
| | Cd | ND | | |
| | Pb | ND |] | 555 455 |
| | Hg | ND | NA | PBBs : ND PBDEs : ND |
| | Cr | ND | 7 | PBDES . ND |
| 38c | Br | Inconclusive | 1 | |
| | DEHP | | Р | |
| | BBP | N1.0 | Р | N.T. |
| | DBP | NA | Р | NT |
| | DIBP | | Р | |
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA NA | PBBs : ND |
| | Cr | ND | 1 | PBDEs : ND |
| 39 | Br | Inconclusive | 1 | |
| | DEHP | | | ND |
| | BBP | | | ND |
| | DBP | - NA | NT | ND |
| | DIBP | | | ND |
| | Cd | ND | NA NA | |
| | Pb | ND | | |
| | Hg | ND | | NT |
| | Cr | ND ND | | |
| 40a | Br | ND | 1 | |
| 100 | DEHP | ND | Р | |
| | BBP | | P | - |
| | DBP | - NA | P | - NT |
| | DIBP | | P | |
| | Cd | ND | | |
| | Pb | ND ND | 1 | |
| | Hg | ND ND | NA NA | NT |
| | Cr | ND | - | 1 |
| 40b | Br | ND | 1 | |
| | DEHP | 110 | Р | |
| | BBP | | P | |
| | DBP | NA | P | - NT |
| | DIBP | | P | |
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA | NT |
| 41 | Cr | ND | - | .** |
| | Br | ND ND | 1 | |
| '' | DEHP | IAD | Р | |
| | BBP | | P | - |
| } | DBP | NA | P | NT |
| | DIBP | | P | - |
| | אטוטר | | Г | |



| Screened Components | Items | XRF Results | Screened Results(phthalates) | Chemical Confirmation Result |
|------------------------|-------|--------------|---------------------------------|---------------------------------|
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 42 | Br | ND | | |
| | DEHP | | Р | |
| | BBP | NA | Р | NT |
| | DBP | INA | Р | |
| | DIBP | | Р | |
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 43 | Br | ND | | |
| | DEHP | | Р | |
| | BBP | NA | Р | NT |
| | DBP | INA | Р | |
| | DIBP | | Р | |
| | Cd | ND | NA | |
| | Pb | ND | | |
| | Hg | ND | | NT |
| | Cr | ND | | |
| 44 | Br | ND | | |
| | DEHP | P P P P | | |
| | BBP | | | NT |
| | DBP | | | |
| | DIBP | | Р | |
| | Cd | ND | | |
| | Pb | ND | _ | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 45 | Br | NT | | |
| | DEHP | | | |
| | BBP | NA | NA | NA |
| | DBP | 14/1 | | 1471 |
| | DIBP | | | |
| | Cd | ND | | |
| | Pb | ND | _ | PBBs : ND |
| | Hg | ND | NA | PBDEs : ND |
| | Cr | ND | | . 5520.115 |
| 46 | Br | Inconclusive | | |
| | DEHP | | Р | |
| | BBP | NA | Р | NT |
| | DBP | INA | Р | INI |
| | DIBP | | Р | |



| Screened Components | Items | XRF Results | Screened Results(phthalates) | Chemical Confirmation Result |
|------------------------|-------|--------------|---------------------------------|---------------------------------|
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 47 | Br | ND | | |
| | DEHP | | Р | |
| | BBP | | Р | N.T. |
| | DBP | NA | Р | - NT |
| | DIBP | | Р | |
| | Cd | ND | | |
| - | Pb | ND | 1 | |
| - | Hg | ND | NA | NT |
| - | Cr | ND | 1 | |
| 48a | Br | ND | 1 | |
| | DEHP | 112 | Р | |
| - | BBP | | P | |
| - | DBP | NA | P | - NT |
| - | DIBP | | P | - |
| | Cd | ND | NA NA | |
| - | Pb | ND | | |
| - | Hg | ND | | NT |
| - | Cr | ND | | 171 |
| 48b | Br | ND ND | 1 | |
| 400 | DEHP | IND | Р | |
| - | BBP | | P | - |
| - | DBP | NA | P | NT |
| - | DIBP | | P | - |
| | | ND | F | |
| - | Cd | | - | |
| - | Pb | ND ND | NA | NT |
| _ | Hg | ND ND | INA | IN I |
| 49 | Cr | ND NT | - | |
| 49 | Br | NT | | |
| | DEHP | | | |
| | BBP | NA | NA | NA |
| | DBP | | | |
| | DIBP | | | |
| | Cd | ND NB | 4 | |
| | Pb | ND ND | · | PBBs : ND |
| | Hg | ND | NA | PBDEs : ND |
| | Cr | ND | | |
| 50 | Br | Inconclusive | _ | |
| <u> </u> | DEHP | | P | _ |
| <u> </u> | BBP | NA | P | NT |
| <u> </u> | DBP | | Р | |
| | DIBP | | Р | |



No.: 240703070GZU-001 Date: Jul 31, 2024

| Screened Components | Items | XRF Results | Screened Results(phthalates) | Chemical Confirmation Result |
|------------------------|-------|-------------|---------------------------------|---------------------------------|
| | Cd | ND | ND ND ND NA ND | |
| | Pb | ND | | |
| | Hg | ND | | NT |
| | Cr | ND | | |
| 51 | Br | ND | | |
| | DEHP | | | ND |
| | BBP | NA | NT | ND |
| | DBP | INA | INI | ND |
| | DIBP | | | ND |
| | Cd | ND | | |
| | Pb | ND | | |
| | Hg | ND | NA | NT |
| | Cr | ND |] | |
| 52 | Br | ND | = | |
| | DEHP | | | ND |
| | BBP | N I A | NIT | ND |
| | DBP | NA | NT | ND |
| | DIBP | | | ND |
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA | NT |
| | Cr | ND | 7 | |
| 53 | Br | ND | 1 | |
| | DEHP | <u> </u> | Р | |
| | BBP | NA P | | - |
| | DBP | | | - NT |
| | DIBP | | Р | 1 |
| | Cd | ND | | NT |
| | Pb | ND | 1 | |
| | Hg | ND | NA | |
| | Cr | ND | | |
| 54 | Br | ND | 1 | |
| | DEHP | | Р | |
| | BBP | A./ A | Р | \ |
| | DBP | NA | P | NT |
| | DIBP | | P | 1 |
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA | NT |
| | Cr | ND | 1 | |
| 55 | Br | ND | 1 | |
| | DEHP | | NT | ND |
| | BBP | - NA | | ND |
| | DBP | | | ND |
| | DIBP | | | ND |
| | וטוכ | | 1 | 1 112 |

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| Screened Components | Items | XRF Results | Screened Results(phthalates) | Chemical Confirmation Result |
|------------------------|-------|-------------|---------------------------------|---------------------------------|
| | Cd | ND | | NT |
| | Pb | ND | | |
| | Hg | ND | NA | |
| | Cr | ND | | |
| 56 | Br | ND | 1 | |
| | DEHP | | Р | |
| | BBP | NA | Р | NT |
| | DBP | INA | Р | INI |
| | DIBP | | Р | |
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA | NT |
| | Cr | ND | 1 | |
| 57 | Br | ND | 1 | |
| | DEHP | | | ND |
| | BBP | NIA | NIT | ND |
| | DBP | NA | NT | ND |
| | DIBP | | | ND |
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 58 | Br | ND | 1 | |
| | DEHP | | Р | |
| | BBP | NA P | Р | |
| | DBP | | Р | NT |
| | DIBP | | 7 | |
| | Cd | ND | NA NT | |
| | Pb | ND | | |
| | Hg | ND | | NT |
| | Cr | ND | | |
| 59 | Br | NT | 1 | |
| | DEHP | | | NA |
| | BBP | NA NA | NA | |
| | DBP | | | |
| | DIBP | | | |
| | Cd | ND | | |
| | Pb | ND | 1 | |
| | Hg | ND | NA | NT |
| | Cr | ND | | |
| 60 | Br | ND | | |
| | DEHP | | NT | ND |
| | BBP | NA | | ND |
| | DBP | | | ND |
| | DIBP | | | ND |



DIBP

Screened Screened **Chemical Confirmation** XRF Results Items Components Results(phthalates) Result Cd ND Pb ND NA NT ND Hg Cr ND 61 ND Br ND **DEHP** ND **BBP** NA NT **DBP** ND

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ND

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ND = Not detected

NT = Not tested

NA = Not applicable

Negative = The Cr (VI) concentration is less than 0.10 μg/cm². The sample is negative for Cr (VI).

Remark:

- (#) = As claimed by the declaration submitted from the applicant, the Lead content of the component comes from Copper alloy only. According to EU RoHS Directive (2011/65/EU) Annex III 6(c), Lead in Copper alloy containing up to 4% (40,000 mg/kg) Lead by weight can be exempted.
- (B) Screening Limits
- (B1). XRF Screening Limits in mg/kg for Regulated Elements in Various Matrices

| Element | Polymer Materials | Metallic Materials | Composite Materials |
|---------|------------------------|------------------------|------------------------|
| Cd | P ≤ 70 < X < 130 ≤ F | P ≤ 70 < X < 130 ≤ F | P ≤ 70 < X < 150 ≤ F |
| Pb | P ≤ 700 < X < 1300 ≤ F | P ≤ 700 < X < 1300 ≤ F | P ≤ 500 < X < 1500 ≤ F |
| Hg | P ≤ 700 < X < 1300 ≤ F | P ≤ 700 < X < 1300 ≤ F | P ≤ 500 < X < 1500 ≤ F |
| Cr | P ≤ 700 < X | P ≤ 700 < X | P ≤ 500 < X |
| Br | P ≤ 300 < X | Not applicable | P ≤ 250 < X |

XRF spectrometry provides information on the total quantity of each element present in the sample, but does not identify compounds or valence states of the elements. Therefore, special attention shall be paid when screening for chromium and bromine, where the result will reflect only the total chromium and total bromine present. The presence of Cr(VI) or the brominated flame retardants PBB or PBDE shall be confirmed by a verification test procedure.

P = Pass

X = Inconclusive result

F = Fail

mg/kg = milligram per kilogram = ppm





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(B2). Preliminary screening test will used for phthalates, if the results exceed the warning area in the following table, further chemical methods will conduct to confirm the exact content by GC/MS.

| Phthalates | Polymer |
|------------------------------------|-------------|
| Bis(2-ethylhexyl) phthalate (DEHP) | P ≤ 600 < X |
| Butyl benzyl phthalate (BBP) | P ≤ 600 < X |
| Dibutyl phthalate (DBP) | P ≤ 600 < X |
| Diisobutyl phthalate (DIBP) | P ≤ 600 < X |

P = Pass

X = Inconclusive result

(C) Estimated Detection Limits in mg/kg for Regulated Elements in Various Matrices

| Element | Polymer Materials | Metallic Materials | Composite Materials |
|---------|-------------------|--------------------|---------------------|
| Cd | 50 | 70 | 70 |
| Pb | 100 | 200 | 200 |
| Hg | 100 | 200 | 200 |
| Cr | 100 | 200 | 200 |
| Br | 200 | Not applicable | 200 |

Disclaimers:

This XRF Screening and Chemical Confirmation Test 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 and Chemical Confirmation Test Report is sufficient for its/his/her purposes.

The results shown in this XRF Screening and Chemical Confirmation Test 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 is required to obtain quantitative data.



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(D) Chemical Test Methods:

| Test Item | Test Method | Detection Limit |
|--|--|----------------------------------|
| Cadmium (Cd) Content | With reference to IEC 62321-5 Edition 1.0: 2013, by acid digestion and determined by ICP - OES | 10 mg/kg |
| Lead (Pb) Content | With reference to IEC 62321-5 Edition 1.0: 2013, by acid digestion and determined by ICP - OES | 10 mg/kg |
| Mercury (Hg) Content | With reference to IEC 62321-4 Edition 1.1: 2017, by acid digestion and determined by ICP - OES | 10 mg/kg |
| Chromium (VI)(Cr ⁶⁺) Content | With reference to IEC 62321-7-2 Edition 1.0: 2017, Hexavalent chromium – Determination of hexavalent chromium (Cr(VI) in polymers and electronics by the colorimetric method | 10 mg/kg |
| Chromium (VI) (Cr ⁶⁺) Content | With reference to IEC 62321-7-1 Edition 1.0: 2015, by boiling water extraction and determined by UV-VIS spectrophotometer | 0.10 μg/cm ² |
| Polybrominated Biphenyls (PBBs) Content | With reference to IEC 62321-6 Edition 1.0: 2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary | 100 mg/kg for single compound |
| Polybrominated Diphenyl Ethers (PBDEs) Content | With reference to IEC 62321-6 Edition 1.0: 2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary | 100 mg/kg for single compound |
| Phthalates (DEHP, BBP, DBP, DIBP) Content | With reference to IEC 62321-8 Edition 1.0: 2017, by solvent extraction and determined by GC/MS | 100 mg/kg for single compound |

(E) RoHS Requirement:

| Restricted Substances | Limits |
|--|-------------------|
| Cadmium (Cd) | 0.01% (100 mg/kg) |
| Lead (Pb) | 0.1% (1000 mg/kg) |
| Mercury (Hg) | 0.1% (1000 mg/kg) |
| Chromium (VI) (Cr ⁶⁺) | 0.1% (1000 mg/kg) |
| Polybrominated Biphenyls (PBBs) | 0.1% (1000 mg/kg) |
| Polybrominated Diphenyl Ethers (PBDEs) | 0.1% (1000 mg/kg) |
| Phthalates (DEHP, BBP, DBP, DIBP) | 0.1% (1000 mg/kg) |

The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.



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Screened components:

- (1) Black plastic
- (2) Silvery plastic label with black/yellow printing
- (3) Silvery plastic label with black/white printing
- (4) Red soft plastic
- Black treated metal(screw) (5)
- Red soft plastic (6)
- (7) Golden metal
- (8) Red plastic
- (9) Black soft plastic
- (10)Black soft plastic
- (11)Transparent plastic with black printing
- Black foam with double sided adhesive tape (12)
- Black soft plastic (13)
- (14)Golden metal
- Golden metal (15)
- Golden metal (16)
- Solder (17)
- (18)Green PCB
- (19)Red soft plastic(wire covering)
- (20)Black soft plastic(wire covering)
- (21)Black plastic
- Black plastic (22)
- (23)Brown FPC
- (24)Solder
- (25)Black PCB
- (26)Black body with silvery metal(SMD IC)
- Black body with silvery metal(SMD triode) (27)
- (28)Black soft plastic
- (29)Transparent plastic
- Black body with silvery metal(SMD diode) (30)
- Black plastic (31)
- (32)Black plastic
- Beige plastic (33)
- (34)Black plastic
- (35)Black body with silvery metal(SMD IC)
- (36)Solder
- (37)Green PCB
- (38)Buzzer
- (38a) Black plastic
- Solder (38b)
- (38c) Green PCB
- (39)White FPC



Total Quality, Assured

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- (40) Switch
- (40a) Black plastic
- (40b) Black plastic
- (41) Beige plastic
- (42) Black body with silvery metal(SMD IC)
- (43) Black body with silvery metal(SMD IC)
- (44) Black body with silvery metal(SMD IC)
- (45) Solder
- (46) Green PCB
- (47) Grey soft plastic with white printing
- (48) Switch
- (48a) Black plastic
- (48b) Black plastic
- (49) Solder
- (50) Green PCB
- (51) Black double sided adhesive tape
- (52) White plastic
- (53) White soft plastic
- (54) Transparent plastic
- (55) Semi-transparent white soft plastic
- (56) Silvery soft plastic
- (57) Transparent black plastic
- (58) Transparent plastic & white fiberboard with yellow coating & silvery metal (SMD LED)
- (59) Solder
- (60) Brown FCB
- (61) Black FCB



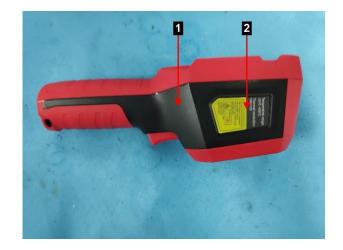
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Sample photo













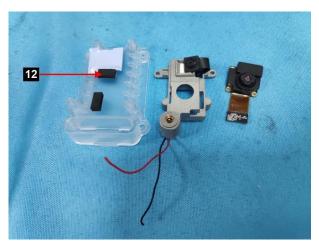


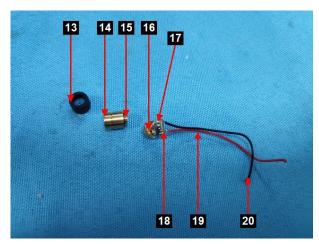


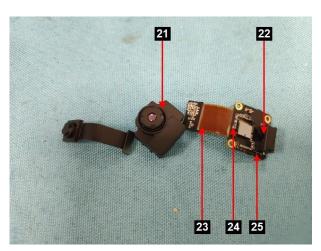


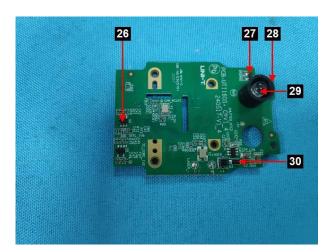




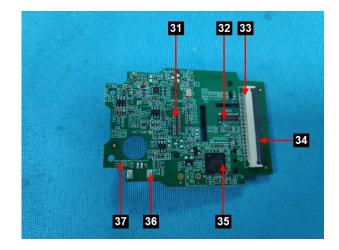


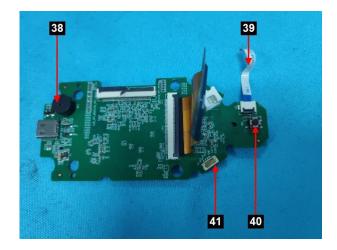


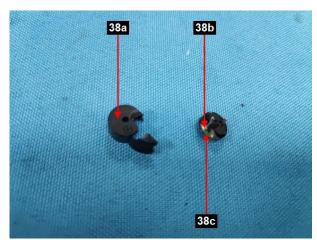


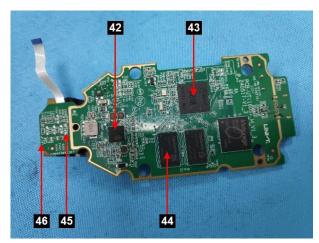


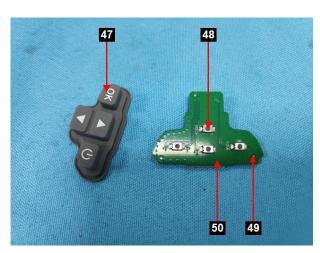


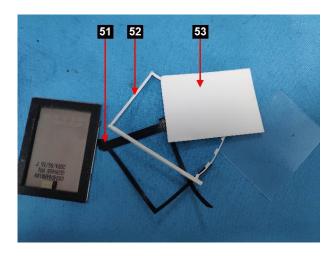






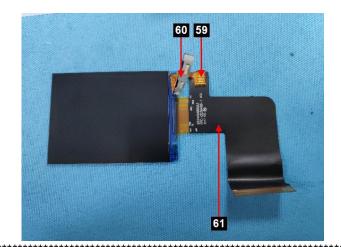








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End of report