



TEST REPORT

For

Dongguan kebye Intelligent Technology Co., Ltd.

GotWay Electronic Unicycle

Model No:GOTWAY Nikola

Trademark:GotWay

Prepared for : **Dongguan kebye Intelligent Technology Co., Ltd.**
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Report Number : **BEL20200000101766.**
Date of Test : Jan. 02- Jan. 08, 2020
Date of Report : Jan. 08, 2020

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- Test Requested** : As requested by the client, to evaluate the compliance of the submitted sample with the Directive 2011/65/EU and amendment directive 2015/863/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
- Test Method** : 1. Review was performed for the sample and the related Bill of Materials submitted by the Applicant.
2. a) Refer to the standard IEC 62321-3-1:2013: Screening by XRF Spectroscopy.
b) Wet chemical test
1) refer to IEC 62321-5: 2013, determine the Cadmium, Lead content by ICP-OES.
2) refer to IEC 62321-4: 2013, determine the Mercury content by ICP-OES.
3) refer to IEC 62321-7-1:2015 & IEC 62321-7-2:2017, determine the Hexavalent Chromium content by UV-VIS.
4) refer to IEC 62321-6:2015, determine the Polybrominated Biphenyls and Polybrominated Diphenyl Ethers by GC-MS.
5) refer to IEC 62321-8:2017, determine the Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP), Di-2-ethylhexyl phthalate(DEHP) and Diisobutyl phthalate(DIBP) by GC-MS.
- Conclusion** : Basing on the test results obtained from the homogenous materials, the submitted sample COMPLIES with the requirements stated in the Annex II of RoHS Directive 2011/65/EU and amendment directive 2015/863/EU.
- Test Results** : Please refer to next page (s).

Date of Test:

Jan. 02- Jan. 08, 2020

Prepared by(Engineer) :

Allen wang

Reviewer(Quality Manager) :

Randy ell

Approved&Authorized Signer(Manager) :

Andy Shi



**Test Results:****1. Pb, Cd, Hg, Cr, Br Test Results:**

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
1	RESISTORS	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
2	DIODES	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
3	MULTI-LAYER CERAMIC CAPACITOR	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
4	PLASTIC ENCAPSULATE INTEGRATED CIRCUIT	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
5	HDMI PORT	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
6	IC	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			



		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
7	USB PORT	Pb	OL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
8	SCREWC	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
9	PCB	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
10	ALUMINUM ELECTROLYTIC CAPACITORS	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
11	BATTERY	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			



12	COPPER SUPPORT	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
13	TIN	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			

14	NIPPON GOLD WIRE	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
15	ALUMINUM ALLOY RADIATOR	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
16	NO PLUMBUM SOLDER PASTER	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
17	LED	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			



18	BRIDGE RECTIFIER- PLASTIC BODY	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
19	LINE	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
20	SWITCH	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			
21	SPEAKER	Pb	BL	NA	Pass	No comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		PBBs	BL			
		PBDEs	BL			



Test Results:

2. Phthalates (DBP, BBP, DEHP, DIBP) Test Results:

Test Item	Test Result (mg/kg)			Reporting Limit (mg/kg)	Requirement Limit (mg/kg)
	1/2/3	4/5/6	7/8/9		
Dibutyl phthalate(DBP)	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	30	1000

Test Item	Test Result (mg/kg)			Reporting Limit (mg/kg)	Requirement Limit (mg/kg)
	10/11/12	13/14/15	16/17/18		
Dibutyl phthalate(DBP)	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	30	1000

Test Item	Test Result (mg/kg)			Reporting Limit (mg/kg)	Requirement Limit (mg/kg)
	19/20/21	N/A	N/A		
Dibutyl phthalate(DBP)	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	30	1000



Test Materials List:

Item No.	Description
1	RESISTORS
2	DIODES
3	MULTI-LAYER CERAMIC CAPACITOR
4	PLASTIC ENCAPSULATE INTEGRATED CIRCUIT
5	HDMI PORT
6	IC
7	USB PORT
8	SCREWC
9	PCB
10	ALUMINUM ELECTROLTIC CAPACITORS
11	BATTERY
12	COPPER SUPPORT
13	TIN
14	NIPPON GOLD WIRE
15	ALUMINUM ALLOY RADIATOR
16	NO PLUMBUM SOLDER PASTER
17	LED
18	BRIDGE RECTIFIER-PLASTIC BODY
19	LINE
20	SWITCH
21	SPEAKER



Remark: (1) ① Results are obtained by XRF for primary screening, and further wet chemical testing by ICP-OES / AAS (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as “X” in below table) (unit: mg/kg).
 ② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA= Not Applicable.
 ③ XRF screening test for RoHS elements - The test result may be different from the actual content in the non-uniformity composition sample.

Element	Polymer	Metal	Composite Materials
Cd	BL \leq (70-3 σ) < X <(130+3 σ) \leq OL	BL \leq (70-3 σ) < X <(130+3 σ) \leq OL	LOD < X <(150+3 σ) \leq OL
Pb	BL \leq (700-3 σ) < X <(1300+3 σ) \leq OL	BL \leq (700-3 σ) < X <(1300+3 σ) \leq OL	BL \leq (500-3 σ) < X <(1500+3 σ) \leq OL
Hg	BL \leq (700-3 σ) < X <(1300+3 σ) \leq OL	BL \leq (700-3 σ) < X <(1300+3 σ) \leq OL	BL \leq (500-3 σ) < X <(1500+3 σ) \leq OL
Br	BL \leq (300-3 σ) < X	NA	BL \leq (250-3 σ) < X
Cr	BL \leq (700-3 σ) < X	BL \leq (700-3 σ) < X	BL \leq (500-3 σ) < X

(2) ① mg/kg = ppm = 0.0001%, ND = Not Detected (Less than reporting limit value.).
 ② Unit, Reporting Limit (RL) and Requirement limit in wet chemical test.

Test items	Pb	Cd	Hg	Cr 6+ (Non-metal)	Cr 6+ (metal)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RL	2	2	2	2	2	5	5
Requirement Limit	1000	100	1000	1000	Negative	1000	1000

③ According to IEC 62321-7-1:2015 & IEC 62321-7-2:2017, result on Cr 6+ for metal sample shall be shown as Positive/Negative.
 Negative = Absence of Cr 6+ coating, Positive = Presence of Cr 6+ coating.
 Storage condition and production date of the tested sample are unavailable and thus results of Cr 6+ represent status of the sample at the time of testing.
 ④ According to IEC 62321-3-1:2013, this column represents the results of wet chem test. And “NA” means no need to perform wet chem test, when the XRF screening results are acceptable.

PHOTOGRAPHS OF TEST SAMPLE

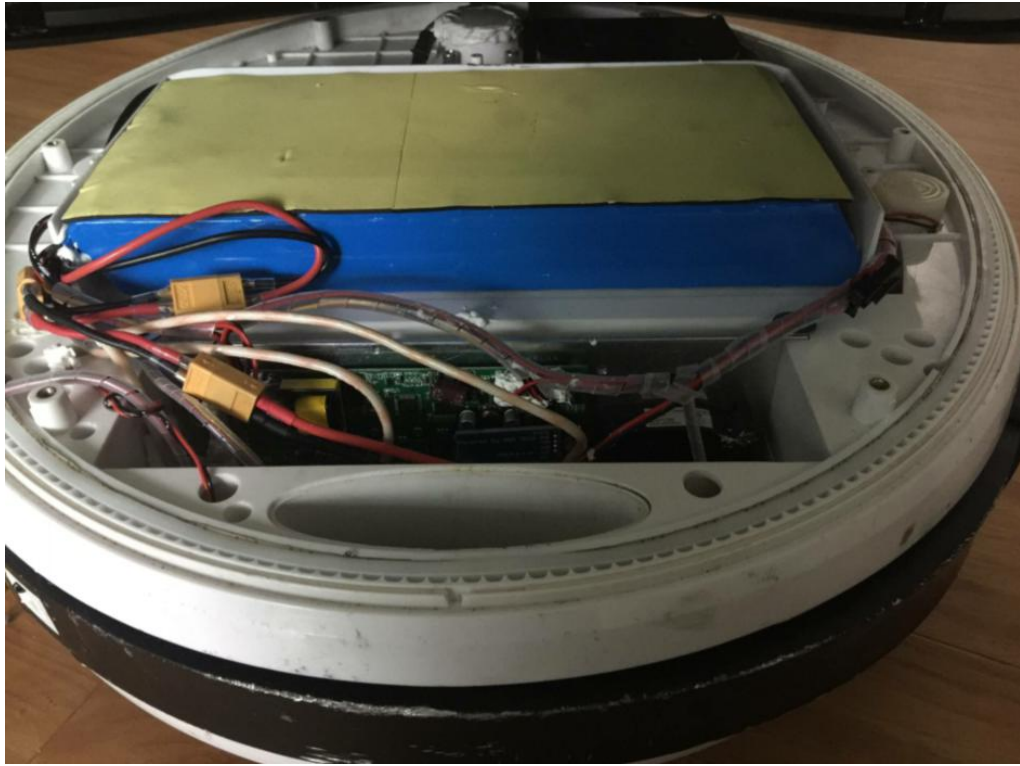
EUT Photo 1



EUT Photo 2



EUT Photo 3



EUT Photo 4



***** END OF REPORT *****