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D-ROBOTICS HOLDING LIMITED

SUITE 603, 6/F LAWS COMM PLAZA 788 CHEUNG SHA WAN RD KLN HONG KONG

Report on the submitted samples said to be: Sample Description: RDK X5

Tested Model(s): RDK X5 8G,RDK X5 4G Sample Receiving Date: December 02,2024

Testing Period: December 02,2024 - March 03,2025

Result: Please refer to next page(s).

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Checked by:	chery	Approved by:	Jest
enecked by			
	Chevy Feng		Jeff Duan

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Summary of Test Result:

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TEST REQUEST	<u>CONCLUSION</u>
A RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863	Pass
A.1 XRF screening test	Please refer to next page(s).
A.2 Wet Chemical Testing	
A.2.1 Total Lead Content	Pass
A.2.2 Chromium VI (Cr(VI)) Content	Pass
A.2.3 PBBs & PBDEs Content	Pass
A.3 Phthalates(DBP, BBP, DEHP, DIBP) Content	Pass



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A RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863 A.1 XRF screening test

Test method: IEC 62321-3-1:2013

Seq	Total But(s)		Result							
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br				
(1)	Transparent plastic (film , cushion , RDK) [1][2]	BL	BL	BL	BL	BL				
(2)	Blue soft plastic (cushion , RDK) [1][2]	BL	BL	BL	BL	BL				
(3)	Silvery metal (cover , RDK) [1][2]	BL	BL	BL	BL					
(4)*	Silvery metal (shell , network socket , PCB , RDK) [1][2]	BL	BL	BL	IN					
(5)	Silvery solder (shell , network socket , PCB , RDK) [1][2]	BL	BL	BL	BL					
(6)	Black soft plastic (wire jacket , electric wire , network socket , PCB , RDK) [1][2]	BL	BL	BL	BL	BL				
(7)	Silvery metal (wire , electric wire , network socket , PCB , RDK) [1][2]	BL	BL	BL	BL					
(8)	Green body (LED , network socket , PCB , RDK) [1][2]	BL	BL	BL	BL	BL				
(9)	Yellow body (LED , network socket , PCB , RDK) [1][2]	BL	BL	BL	BL	BL				
(10)*	Black plastic (pin holder , network socket , PCB , RDK) [1][2]	BL	BL	BL	BL	IN				
(11)	Silvery metal (pin , network socket , PCB , RDK) [1][2]	BL	BL	BL	BL					
(12)	Black magnet (magnet ring , network socket , PCB , RDK) [1][2]	BL	BL	BL	BL					
(13)	Coppery metal (coil , network socket , PCB , RDK) [1][2]	BL	BL	BL	BL					
(14)	Coppery metal with red plating (coil , network socket , PCB , RDK) [1][2]	BL	BL	BL	BL					
(15)	Coppery metal with green plating (coil , network socket , PCB , RDK) [1][2]	BL	BL	BL	BL					
(16)*	Green PCB with EC (PCB , network socket , PCB , RDK) [1][2]	BL	BL	BL	BL	IN				
(17)	Silvery solder (PCB , network socket , PCB , RDK) [1][2]	BL	BL	BL	BL					
(18)	Silvery metal (shell , big USB socket , PCB , RDK) [1][2]	BL	BL	BL	BL					
(19)	Blue plastic (pin holder , big USB socket , PCB , RDK) [1][2]	BL	BL	BL	BL	BL				
(20)	Silvery metal (pin , big USB socket , PCB , RDK) [1][2]	BL	BL	BL	BL					
(21)	Silvery metal (shell , middle USB socket , PCB , RDK) [1][2]	BL	BL	BL	BL					
(22)	Black plastic (pin holder , middle USB socket , PCB , RDK) [1][2]	BL	BL	BL	BL	BL				
(23)	Golden metal (pin , middle USB socket , PCB , RDK) [1][2]	BL	BL	BL	BL					
(24)	Black plastic (earphone socket , PCB , RDK) [1][2]	BL	BL	BL	BL	BL				
(25)	Golden metal (conductor , earphone socket , PCB , RDK) [1][2]	BL	BL	BL	BL					
(26)*	Silvery metal (shell , small USB socket , PCB , RDK) [1][2]	BL	BL	BL	IN					
(27)	Black plastic (pin holder , small USB socket , PCB , RDK) [1][2]	BL	BL	BL	BL	BL				
(28)	Golden metal (pin , small USB socket , PCB , RDK) [1][2]	BL	BL	BL	BL					



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Seq Tosted Part(c)		Result						
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br		
(29)	Silvery metal (shell , micro USB socket , PCB , RDK) [1][2]	BL	BL	BL	BL			
(30)	Black plastic (pin holder , micro USB socket , PCB , RDK) [1][2]	BL	BL	BL	BL	BL		
(31)	Silvery metal (pin , micro USB socket , PCB , RDK) [1][2]	BL	BL	BL	BL			
(32)*	Silvery metal (shell , SD card socket , PCB , RDK) [1][2]	BL	BL	BL	IN			
(33)	Black plastic (pin holder , SD card socket , PCB , RDK) [1][2]	BL	BL	BL	BL	BL		
(34)	Silvery metal (pin , SD card socket , PCB , RDK) [1][2]	BL	BL	BL	BL			
(35)	Beige plastic (socket , PCB , RDK) [1][2]	BL	BL	BL	BL	BL		
(36)	Silvery metal (pin , socket , PCB , RDK) [1][2]	BL	BL	BL	BL			
(37)	Beige plastic (FPC socket , PCB , RDK) [1][2]	BL	BL	BL	BL	BL		
(38)	Black plastic (FPC socket , PCB , RDK) [1][2]	BL	BL	BL	BL	BL		
(39)	Silvery metal (pin , FPC socket , PCB , RDK) [1][2]	BL	BL	BL	BL			
(40)	Orange plastic (pin plug , PCB , RDK) [1][2]	BL	BL	BL	BL	BL		
(41)	Golden metal (pin , pin plug , PCB , RDK) [1][2]	BL	BL	BL	BL			
(42)*	Black plastic (pin plug , PCB , RDK) [1][2]	BL	BL	BL	BL	IN		
(43)	Black plastic with brown plastic (button/base , key , PCB , RDK) [1][2]	BL	BL	BL	BL	BL		
(44)*	Silvery metal (shell , key , PCB , RDK) [1][2]	BL	BL	BL	IN			
(45)	Silvery metal (pin , key , PCB , RDK) [1][2]	BL	BL	BL	BL			
(46)*	Silvery metal (foil , key , PCB , RDK) [1][2]	BL	BL	BL	IN			
(47)	Silvery metal (shell , antenna socket , PCB , RDK) [1][2]	BL	BL	BL	BL			
(48)	White plastic (pin holder , antenna socket , PCB , RDK) [1][2]	BL	BL	BL	BL	BL		
(49)	Golden metal (pin , antenna socket , PCB , RDK) [1][2]	BL	BL	BL	BL			
(50)*/*1	Brown ceramic body (crystal oscillator , PCB , RDK) [1][2]	OL	BL	BL	BL	BL		
(51)	Green PCB with EC (micro PCB , RDK) [1][2]	BL	BL	BL	BL	BL		
(52)*	Black PCB with EC (PCB , RDK) [1][2]	BL	BL	BL	BL	IN		
(53)	Silvery solder (PCB , RDK) [1][2]	BL	BL	BL	BL			

Note:

[1]RDK X5 8G [2]RDK X5 4G

Note:

--- = Not Applicable.

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^{* =} Screening by XRF and detected by chemical method. The test result of chemical method please refer to next pages.

^{*1 =} According to the material declaration provided by the client, the sample of test No. 50 is exempted accordance with Annex III 7(c)-I of directive 2011/65/EU. The exempt items of 7(c)-I in Annex III of Directive 2011/65/EU: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.



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Remark:

i Result 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 IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤50-3σ <x <150+3σ≤OL</x
Pb	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Hg	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Br	mg/kg	BL≤300-3σ <x< td=""><td></td><td>BL≤250-3σ<x< td=""></x<></td></x<>		BL≤250-3σ <x< td=""></x<>

Note:

BL = Below Limit OL = Over Limit

IN/X = Inconclusive (questionable, need further chemical analysis)

ii The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

iii The maximum permissible limit is quoted from the RoHS directive 2011/65/EU:

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

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.



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A.2 Wet Chemical Testing
A.2.1 Total Lead Content

Test method: IEC 62321-5:2013

14	11	D.	Result
Item	Unit	RL	(50)
Lead(Pb)	mg/kg	10	42432

Note:

- N.D. = Not Detected or less than RL
- RL = Report Limit
- mg/kg = ppm

A.2.2 Chromium VI (Cr(VI)) Content

Test method: IEC 62321-7-1:2015

H	11	D.			Result			1	
Item	Unit	Unit	RL	(4)	(26)	(32)	(44)	(46)	Limit
hexavalent chromium(Cr(VI))	μg/cm²	0.10	N.D.	N.D.	N.D.	N.D.	N.D.	See Remark	
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/	

Limit Remark:

- a. The sample is positive for Cr(VI) if the CrVI concentration is greater than $0.13\mu g/cm^2$, The sample coating is considered to contain Cr(VI);
- b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10µg/cm²), The coating is considered a non-Cr(VI) based coating;
- c. The result between $0.10\mu g/cm^2$ and $0.13\mu g/cm^2$ is considered to be inconclusive -unavoidable coating variations may influence the determination;

For corrosion protection coatings on metals: 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.

Note:

- N.D. = Not Detected or less than RL
- RL = Report Limit
- mg/kg = ppm

A.2.3 PBBs & PBDEs Content

Test method: IEC 62321-6:2015

ltem	1124	D.		Res	sult		1214
	Unit	RL	(10)	(16)	(42)	(52)	Limit
Monobromobiphenyl (MonoBB)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-
Dibromobiphenyl(DiBB)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-
Tribromobiphenyl(TriBB)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-
Tetrabromobiphenyl(TetraBB)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-
Pentabromobiphenyl(PentaBB)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-
Hexabromobiphenyl (HexaBB)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-

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	1124	D.	Result					
ltem	Unit	RL	(10)	(16)	(42)	(52)	Limit	
Heptabromobiphenyl (HeptaBB)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-	
Octabromobiphenyl(OctaBB)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	1	
Nonabromobiphenyl(NonaBB)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-	
Decabromobiphenyl(DecaBB)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-	
Monobromodiphenyl ether (MonoBDE)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-	
Dibromodiphenyl ether (DiBDE)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	ı	
Tribromodiphenyl ether (TriBDE)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	ı	
Tetrabromodiphenyl ether (TetraBDE)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	ı	
Pentabromodiphenyl ether (PentaBDE)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-	
Hexabromodiphenyl ether (HexaBDE)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-	
Heptabromodiphenyl ether (HeptaBDE)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-	
Octabromodiphenyl ether (OctaBDE)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	ı	
Nonabromodiphenyl ether (NonaBDE)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	-	
Decabromodiphenyl ether (DecaBDE)	mg/kg	25	N.D.	N.D.	N.D.	N.D.	ı	
sum of MonoBDE,DiBDE,TriBDE,TetraB DE,PentaBDE,HexaBDE,HeptaB DE,OctaBDE,NonaBDE,DecaBD E	mg/kg	-	N.D.	N.D.	N.D.	N.D.	1000	
sum of MonoBB,DiBB,TriBB,TetraBB,Pe ntaBB,HexaBB,HeptaBB,OctaB B,NonaBB,DecaBB	mg/kg	-	N.D.	N.D.	N.D.	N.D.	1000	
Conclusion	/	/	Pass	Pass	Pass	Pass	/	

Note:

- N.D.= Not Detected or less than RL
- RL = Report Limit
- mg/kg = ppm
- The Result less than RL are not taken into account while calculating the sum contents.

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A.3 Phthalates(DBP, BBP, DEHP, DIBP) Content

					Re	sult			
ltem	Unit	RL	(1)	(2)+(10)+ (19)	(6)	(8)	(9)) (16)	Limit
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	204	N.D.	N.E	D. N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.E	D. N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.E	D. N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.E	D. N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pas	ss Pass	/
					Re	sult			
Item	Unit	RL	(22)	(24)	(27)	(30)	(33	3) (35)	Limit
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.E	D. N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.E	D. N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.E	D. N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.E	D. N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pas	ss Pass	/
			Result						
Item	Unit	RL	(37)		(38)	(40)		(42)	Limit
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.		N.D.	N.D.		N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.		N.D. N.D.			N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.		N.D. N.D. N.D.		N.D.	1000	
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.		N.D.	N.D.		N.D.	1000
Conclusion	/	/	Pass		Pass	Pass		Pass	/
					Re	sult			
Item	Unit	RL	(43)	(43) (48)				(51)+(52)	Limit
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.		N.D.	N.D.		N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.		N.D.	N.D.	D. N.D.		1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.		N.D.	.D. N.D.		N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D. N.D. N.D. N.D.		N.D.		N.D.	1000
Conclusion	/	/	Pass Pass		Pass Pass		/		



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Note:

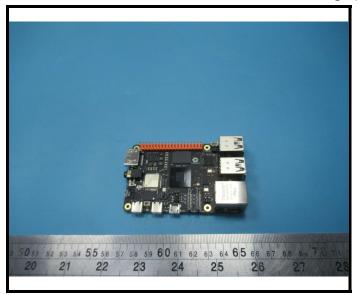
- N.D. = Not Detected or less than RL
- RL = Report Limit
- mg/kg = ppm

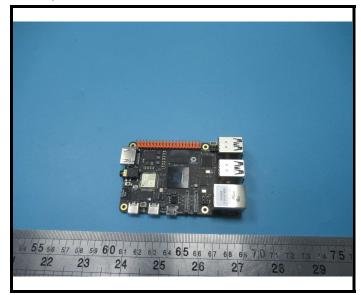
- "+" = Mixed, The admixture of specimen is tested as a whole(part)which according to the applicant' s request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.

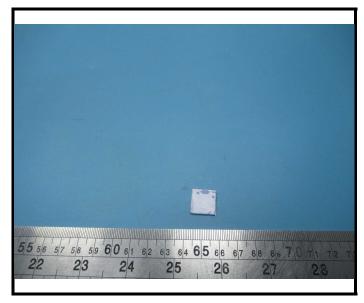


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Photograph of Sample







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- 2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
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- 6.The test samples were in good condition before testing.
- 7. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

*** End of Report ***