

Prepared for:

Mid Ocean Brands B.V.

7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

Product Name: Water Powered LCD Desk Clock

Model Name: IT3828

Trade Name:

Date of Test: From June 25, 2023 to July 10, 2023

Date of Report: July 12, 2023

Report Number: HK2306256590-1RR

Prepared by:

Shenzhen HUAK Testing Technology Co., LTD.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

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Applicant:	Mid Ocean Brands B.V.	
	7/F, Kings Tower, 111 King Lam Street Hong Kong	, Cheung Sha Wan, Kowloon,
Manufacturer:	Mid Ocean Brands B.V.	
Address:	7/F, Kings Tower, 111 King Lam Street Hong Kong	, Cheung Sha Wan, Kowloon,
The following sample was subr	nitted and identified by/on behalf of the	e client as:
Sample Name:	Water Powered LCD Desk Clock	
Model No. :	IT3828	
Trade Name:	N/A	
Sample Receiving Date:	June 25, 2023	
Testing Period:	From June 25, 2023 to July 10, 2023	
Results:	Please refer to next page(s).	
***********	************************************	**************
Summary of Test Results:		
Test Requested: Accord Cd, He	ding to customer's requirements, Split the g, Cr(VI), PBBs & PBDEs, DBP, BBP, DE	sample and determine the Pb, HP, DIBP content of the parts.
Conclusion: the lim	upon the performed tests by submitted sa its as set by Directive (EU) 2015/863 - Ar 65/EU (RoHS 2.0) Annex II.	
Signed for and on behalf of HUA	**************************************	*********
AKTESTING	NAK TESTING	
Jason	- Thou	
Approved by: Lab Mana	ger One Description of the second of the sec	

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Remark: Only selected materials were tested as per client's requirement.



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Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community,

Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

CPSC Certification Number is 1710.

Test Method:

- 1. Sample prepared with reference to IEC 62321-1:2013 / IEC 62321-2:2021
- 2. Sample Screening testing with reference to IEC 62321-3-1:2013
- 3. Wet Chemical Test Method
 - a. Determination of Lead, Cadmium by ICP-OES with reference to IEC 62321-5:2013
 - b. Determination of Mercury by ICP-OES with reference to IEC 62321-4:2013+AMD1:2017
 - c. Determination of Hexavalent Chromium in colourless and coloured corrosion-protected coatings on metals by UV-VIS method reference to IEC 62321-7-1:2015
 - d. Determination of Hexavalent Chromium in polymers and electronics by UV-Vis Method with reference to IEC 62321-7-2:2017.
 - e. Determination of PBBs and PBDEs by GC-MS with reference to IEC 62321-6:2015
 - f. Determination of DBP, BBP, DEHP and DIBP by GC-MS with reference to IEC 62321-8:2017



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Test Results:

Test Res	sults:				
Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
	HUAN	Pb	BL		Comply
		Cd	BL	V TESTING	Comply
	TING STING	Hg	BL 🚳	HUAN	Comply
	HUANTED	Cr(VI)	BL	HUAK TEST	Comply
1	Black transparent	PBBs	BL	(1)	Comply
ı	plastic	PBDEs	BL		Comply
	3 TESTING	DBP	- STING	N.D.	Comply
	HUAKIL	BBP	HUAKTE	N.D.	Comply
		DEHP		N.D.	Comply
	n)G	DIBP		N.D.	Comply
	- WAKTES!	Pb	JAK TES BL	6	Comply
	(i)	Cd	BL	705-	Comply
		Hg	BL	HUAKTESTI	Comply
	TING OKTESTING	Cr(VI)	BL	TESTIN	Comply
2 HUAR	Silver coating	PBBs	BL	HUAR	Comply
2	(white plastic keys)	PBDEs	BL		Comply
	a	DBP		N.D.	Comply
	JAK TESTINIL	BBP	I IA TESTING	N.D.	Comply
	(i) NO.	DEHP	O HO	N.D.	Comply
		DIBP		N.D.	Comply
	TESTING	Pb	BL	HUAK	Comply
	HUAR	Cd	BL		Comply
		Hg	BL	TESTING	Comply
	ING TIME	Cr(VI)	BL 🚳 🚷	HUAR	Comply
3	Black, silver	PBBs	BL	WAKTESTI	Comply
3	coating (white plastic)	PBDEs	BL	<u></u>	Comply
	, ,	DBP		N.D.	Comply
	3 CSTING	BBP	STING	N.D.	Comply
	HUAKTE	DEHP	HUAKTE	N.D.	Comply
		DIBP		N.D.	Comply



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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
	MAKTESTING	Pb	BL	Mun	Comply
	(C) HO.	Cd	BL	-6	Comply
		Hg	BL	MAKTESTING-	Comply
	TING TESTING	Cr(VI)	BL	STI	Comply
4	Class display	PBBs	BL	HUAK'IL	Comply
4	Glass display	PBDEs	BL		Comply
		DBP			NA
	S X TESTING	BBP	AR TESTING	WTESTING	NA TOTAL
	(C) HUM	DEHP	MILIPA	W HUM	NA
		DIBP			NA
Eo	STING	Pb	BL	HUAKTES	Comply
	HUAKTEE	Cd	BL	<u></u>	Comply
		Hg	BL	STING.	Comply
	G ON	Cr(VI)	BL	HUAKTE	Comply
5 AKTE	Silver coating	PBBs	BL	JOK TESTIN	Comply
5	(white plastic)	PBDEs	BL	W. HO.	Comply
		DBP		N.D.	Comply
	5 TING	BBP		N.D.	Comply
	HUAKTES	DEHP	HUAK TES	N.D.	Comply
		DIBP	<u></u>	N.D.	Comply
ESTING		Pb	BL	A LESTING	Comply
	LAKTESTING	(M) HUAN Cd	BL	HUAN	Comply
	(C) HO	Hg	BL		Comply
		Cr(VI)	IN	N.D.	Comply
0	TING OH TESTING	PBBs	TESTING @	STI	NA S
6	Silver screw	PBDEs	MAN	HUAK TEL	NA
		DBP			NA
		BBP			NA
	-K TESTING	DEHP	AR STING	K TESTING	NA *******
	(I) HUAD	DIBP	MUR.	MI HUAN	NA

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
	LAKTESTING	Pb	BL	Mun	Comply
	O HU	Cd	BL	- 1G	Comply
		Hg	BL	WANTESTING	Comply
	THIS TESTING	Cr(VI)	BL		Comply
7	White plastic	PBBs	BL	HUAK'IL	Comply
	vviille plastic	PBDEs	BL		Comply
		DBP		N.D.	Comply
	NY TESTING	BBP	AK ESTING	N.D.	Comply
	O HOM	DEHP	MON-	N.D.	Comply
TING		DIBP		N.D.	Comply
ED	TSTING	Pb	BL	HUAKTES	Comply
	HUAKTE	Cd	BL	<u></u>	Comply
		Hg	BL	TESTING.	Comply
	ug mg	Cr(VI)	BL	HUAK I	Comply
8	Grey rubber	PBBs	BL	HAKTESTI	Comply
0	Grey rubber	PBDEs	BL		Comply
		DBP		N.D.	Comply
	S	BBP		N.D.	Comply
	HUAKTES	DEHP	HUAKTE	N.D.	Comply
		DIBP		N.D.	Comply
ESTING	a)G	Pb	BL	NA TESTING	Comply
	"IAK TESTING	Cd	BL	Million	Comply
	0 m	Hg	BL	-01G	Comply
		Cr(VI)	BL	WAY TESTING	Comply
9	Red wire cover	PBBs	BL'mg @	TESTIN	Comply
HUAK	I TOU WILE COVE	PBDEs	BL	HUAK .	Comply
		DBP		N.D.	Comply
	3 46	BBP		N.D.	Comply
	"IAK TESTING	DEHP	TAKESTING	N.D.	Comply
	(I) HU	DIBP	(HO	N.D.	Comply

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
	LAK TESTING	Pb	BL	Million	Comply
	O HO.	Cd	BL	-(5	Comply
79		Hg	BL	HAKTESTING-	Comply
-	THIS TESTING	Cr(VI)	BL	CSTN	Comply
10	Plack wire cover	PBBs	BL	HUAK'IL	Comply
10	Black wire cover	PBDEs	BL	-	Comply
		DBP		N.D.	Comply
AK TESTIN	S OX TESTING	BBP	AR TESTING	N.D. TESTING	Comply
Om	O HUM	DEHP	MILITA	N.D.	Comply
TING		DIBP		N.D.	Comply
60	STING	Pb	BL	HUAKTES	Comply
	HUAKTE	Cd	BL	<u></u>	Comply
		Hg	BL	TESTING.	Comply
	.G .MG .	Cr(VI)	BL	HUAKTE	Comply
AMETE	Commontant TEST	PBBs	WAK TESTI	JAKTESTIN	NA
11	Copper metal core	PBDEs	<u></u>	W. Ho.	NA
		DBP			NA
-TIN	3 TING	BBP	TING		NA
UAK TES.	HUAKTES	DEHP	HUAK TES.	THI AK TES	NA
		DIBP		<u> </u>	NA
ESTING	.6	Pb	BL	V TESTING	Comply
	JAK TESTING	(Cd	BL	HUAI	Comply
	O HO	Hg	BL		Comply
		Cr(VI)	BL	HAKTESTING	Comply
10	Transparate Transparate	PBBs	BL ^{mc}	STI	Comply
12	Transparent tape	PBDEs	BL	HUAK'TE	Comply
9		DBP			NA
All		BBP			NA
OKTESTIN	AK TESTING	DEHP	AR FESTING	AK TESTING	NA
IO.	O HUN	DIBP	MINITED AND THE PROPERTY OF TH	White	NA



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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
	JAKTESTING	Pb	BL	Million	Comply
	O HO.	Cd	BL	-1G	Comply
		Hg	BL	WAX TESTING	Comply
	TESTING (Cr(VI)	BL		Comply
13	Yellow wire cover	PBBs	BL	HUAK'IL	Comply
13	reliow wire cover	PBDEs	BL		Comply
		DBP		N.D.	Comply
	OX TESTING	BBP	OR TESTING	N.D.	Comply
	(HOW	DEHP	O HOW	N.D.	Comply
TING		DIBP		N.D.	Comply
EB	ESTING	Pb	BL	HUAK TES	Comply
	HUAKTE	Cd	BL	<u></u>	Comply
		Hg	BL	TESTING_	Comply
	-G THE M	Cr(VI)	BL	HUAK I	Comply
14	Conner motel core	PBBs	WAK TESTI	VAKTESTIN	NA
14	Copper metal core	PBDEs	<u></u>	W HO.	NA
		DBP			NA
	3 TING	BBP	TING	TING	NA
	HUAKTES	DEHP	HUAK TES	THE AK TESS	NA
		DIBP		<u> </u>	NA
ESTING	,G	Pb	BL	V KSTING	Comply
	JAK TESTING	Cd	BL	MILIAN	Comply
	O HO.	Hg	BL	-16	Comply
		Cr(VI)	BL	WAX TESTING	Comply
1 <i>E</i> ×	Coldon motal	PBBs	V TEXTING (STM	NA STING
15	Golden metal	PBDEs	MHUAN	HUAK TE	NA
		DBP			NA
		BBP			NA
	AK TESTING	DEHP	AK FESTING	AK TESTING	NA
	O HUN	DIBP	MIN	W HUM	NA



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Part No. Part Name Restricted Substances Result of EDXRF (1) Pb BL Cd Result of EDXRF (1) Result of EDXRF (1) Chemical Testing (mg/kg) Pb BL	Conclusion on RoHS
HUM	Comply Comply
Cd BL	Comply
400	,G
Hg BL	Comply
Cr(VI) BL	Compry
16 Silver metal PBBs	NA
PBDEs	NA
DBP	NA
BBP BBP The	NA (STIME
DEHP 0	NA
DIBP	NA NA
Pb BL	Comply
Cd BL	Comply
Hg BL	Comply
Cr(VI) BL	Comply
The TEST STIME TEST	NA NA
17 Silver metal PBBs PBDEs	NA
DBP	NA
BBP	NA NA
DEHP HIME	NA
DIBP	NA
Pb BL	Comply
Cd BL	Comply
Hg BL	Comply
Cr(VI) BL	Comply
Manalithia PBRs BI	Comply
18 capacitor PBDEs BL	Comply
DBP	NA NA
BBP	NA
DEHP THE	NA TSTING
DIBP U	NA



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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	
	MAKTESTIME	(a) Pb	BL	MIA.	Comply	
	O HO.	Cd	BL	-6	Comply	
		Hg	BL	LAKTESTING-	Comply	
4	TING TESTING	Cr(VI)	BL ^{mG}	STI	Comply	
19	Cilver metal nin	PBBs	HUAR	HUAK'IL	NA	
19	Silver metal pin	PBDEs			NA	
		DBP			NA	
KTESTIN	3 X TESTING	BBP	A FESTING	K TESTING	NA TESTING	
Obra	O HUA	DEHP	MINITED AND AND AND AND AND AND AND AND AND AN	M HUAT	NA	
TING		DIBP		_{(IN} G	NA	
600	STMG	Pb	BL	HUAKTES	Comply	
	HUAKTE	Cd	BL		Comply	
		Hg	BL	STING	Comply	
	and and	Cr(VI)	BL	HUAK TE	Comply	
OOKTE	Silver metal solder	PBBs	UNAK TESTIN	JOK TESTIN	NA	
20	joints	PBDEs	<u></u>	W HO	NA	
		DBP			NA	
-TIN	5 TING	BBP	TING	OVIN	NA	
UAK TES	HUAKTES	DEHP	HUAK TES	THI AK TES	NA	
		DIBP	<u></u>	<u></u>	NA	
ESTING	- 0	Pb	BL	- TESTING	Comply	
	AN TESTING	Cd	BL	HUAN-	Comply	
	(HOLD	Hg	BL		Comply	
		Cr(VI)	BL	LAK TESTING	Comply	
04	TING	PBBs	BL'''	STI	Comply	
21	Green PCB board	PBDEs	BL BL	HUAKTEL	Comply	
9		DBP		N.D.	Comply	
21.0		BBP		N.D.	Comply	
KTESTIN	K TESTING	DEHP	A SESTING	N.D. TESTING	Comply	
Uni	HUAN	DIBP	MINN.	N.D.	Comply	



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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
	JAKTESTING	Pb	BL	MUN	Comply
	O HO.	Cd	BL	-1G	Comply
	0.00	Hg	BL	"IAK TESTING	Comply
	TESTING (Cr(VI)	BL	ESTIN	Comply
22	Black plastic	PBBs	BL	HUAK IL	Comply
	Black plastic	PBDEs	BL		Comply
		DBP		N.D.	Comply
	S AK TESTING	BBP	AR TESTING	N.D.	Comply
	(1) HUM	DEHP	MILITA	N.D.	Comply
		DIBP		N.D.	Comply
Es	TSTING	Pb	BL	HUAKTES	Comply
	HUAKTE	Cd	BL	<u></u>	Comply
		Hg	BL	ESTING .	Comply
	.G mG	Cr(VI)	BL	HUAKTE	Comply
23	Brown patch	PBBs	BL	JAK TESTIN	Comply
23	capacitor	PBDEs	BL	(I) HO	Comply
		DBP			NA
	5 TING	BBP	TING	TING	NA
	HUAK TES	DEHP	HUAK TES	THI AK TESS	NA
		DIBP	<u></u>	<u> </u>	NA
ESTING	.6	Pb	BL	X TESTING	Comply
	JAK TESTING	(Cd	BL	MIA	Comply
	O HO.	Hg	BL	v(3	Comply
		Cr(VI)	BL	WAX TESTING	Comply
24	Disable falls	PBBs	BL ^{mic}	ESTA	Comply
24	Black felt	PBDEs	BL	HURKTE	Comply
		DBP			NA
		BBP			NA
	AK TESTING	DEHP	AK FESTING	AK TESTING	NA
	O HUN	DIBP	MIN	M HUM	NA

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
	JAK TESTING	Pb	BL	Marian	Comply
	(a) House	Cd	BL	√G	Comply
		Hg	BL	WAX TESTING	Comply
	TESTING (Cr(VI)	BL	ESTIN	Comply
25	Black, pink rubber	PBBs	BL	HUAK IL	Comply
23	black, pilik lubbei	PBDEs	BL		Comply
		DBP		N.D.	Comply
	OX TESTING	BBP	OR TESTING	N.D.	Comply
	O HUM	DEHP	MILITA	N.D.	Comply
		DIBP		N.D.	Comply
ED	TSTING	Pb	BL	HUAKTES	Comply
	HUAKTE	Cd	BL	<u></u>	Comply
		Hg	BL	TESTING .	Comply
	.G 200	Cr(VI)	BL	HUAKTE	Comply
26	\M/bita atiakan	PBBs	BL	VAK TESTIN	Comply
20	White sticker	PBDEs	BL	(I) HO	Comply
		DBP		N.D.	Comply
	5 TING	BBP	TING	N.D.	Comply
	HUAKTES	DEHP	HUAK TES	N.D.	Comply
		DIBP		N.D.	Comply
ESTING	.6	Pb	BL	V ESTING	Comply
	JAK TESTING	Cd	AK TESTING	MIA	Comply
	O HO.	Hg	BL	-16	Comply
		Cr(VI)	BL	HAKTESTING	Comply
07	Cilven market	PBBs	VIETING @	ESTA	NA STATE
27	Silver metal	PBDEs	MIAN	HUAK TE	NA
		DBP			NA
		BBP			NA
	AK TESTING	DEHP	AR FESTING	AK TESTING	NA
	O HUN	DIBP	MINITED AND AND AND AND AND AND AND AND AND AN	Mary Holes	NA

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Part No.	Part Name	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS
	HAKTESTING	Pb	BL	Mary	Comply
6	O House	Cd	BL	- NG	Comply
M	100	Hg	BL	WAX TESTING	Comply
-16	STING VIESTING	Cr(VI)	BL	_{TESTI}	Comply
28	Grey paper	PBBs	BL	HUAK I	Comply
20	Grey paper	PBDEs	BL		Comply
		DBP		N.D.	Comply
NK TESTIN	AK TESTINIS	BBP	NK ESTING	N.D.	Comply
IO.	(C) HOW	DEHP	Moral Home	N.D.	Comply
TING		DIBP		N.D.	Comply
EB	ESTING	Pb	OL [®]	2.3*10 ⁴	Comply
	HUAKTE	Cd	BL	<u></u>	Comply
		Hg	BL	TESTING.	Comply
	THE STIME (Cr(VI)	BL	HUAKIL	Comply
29	Gold nut	PBBs	WHIAK TES	WAKTESTI	NA
29	Gold Hut	PBDEs	<u></u>	(a) How	NA
		DBP			NA
-CTIN	G	BBP	CTING	CTING	NA
WAKTER	HUAKTES	DEHP	HUAK TES	THAN TES	NA
		DIBP		<u> </u>	NA
ESTING	O.	Pb	BL	N. TESTING	Comply
	HAKTESTING	Cd	BL	O HUND	Comply
		Hg	BL	-01G	Comply
		Cr(VI)	BL	WAY TESTING	Comply
30	Silver metal gasket	PBBs	WITEIMG @		NA SWE
30	Silver metal gasket	PBDEs	MANAGE	MINAK IL	NA
		DBP			NA
41		BBP			NA
AK TESTIN	AKTESTING	DEHP	LAKTESTING	- OK TESTING	NA
Die	Mary Hora	DIBP	MHU-	M HUM	NA



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Remark:

(1) (a) 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.

(b)Results are obtained by EDXRF 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 IEC62321-3-1:2013 (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	BL≤(70-3σ) <x<(130+3σ) ≤OL</x<(130+3σ) 	BL≤(70-3σ) <x<(130+3σ) ≤OL</x<(130+3σ) 	LOD <x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)>
Pb	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(700- 3σ) <x<(1300+3σ) td="" ≤ol<=""><td>BL≤(500- 3σ)<x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)></td></x<(1300+3σ)>	BL≤(500- 3σ) <x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)>
Hg	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(700- 3σ) <x<(1300+3σ) td="" ≤ol<=""><td>BL≤(500- 3σ)<x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)></td></x<(1300+3σ)>	BL≤(500- 3σ) <x<(1500+3σ) td="" ≤ol<=""></x<(1500+3σ)>
Br	BL≤(300-3σ) <x< td=""><td>HUAKTE -</td><td>BL≤(250-3σ)<x< td=""></x<></td></x<>	HUAKTE -	BL≤(250-3σ) <x< td=""></x<>
Cr	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<>

- (c) BL = Below warning value, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection,
 - -- = Not Regulated, NA = Not Applicable.
- (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) (a) 1mg/kg = 1ppm = 0.0001%, N.D.= Not Detected (<MDL), --- = Not Conducted.
 - (b) Unit and Method Detection Limit (MDL) in wet chemical test

\ /		\ /					
Test Items	Pb	Cd	Hg	DBP	BBP	o DEHP	DIBP
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	2	2	2	100	100	100	100

The MDL for single compound of PBBs & PBDEs is 5 mg/kg, MDL of Cr(VI) for polymer & composite sample is 2 mg/kg and MDL of DBP, BBP, DEHP and DIBP is 30mg/kg.

(c) When Cr(VI) for metal sample is testing according to IEC 62321-7-1:2015, the unit is $\mu g/cm^2$, and the MDL is 0,10 $\mu g/cm^2$. When the Cr (VI) concentration is > the 0,13 $\mu g/cm^2$, the sample is positive for Cr(VI) and considered to contain Cr(VI); when the Cr (VI) concentration is N.D.(< the 0,10 $\mu g/cm^2$), the sample is negative for Cr(VI) and considered a non-Cr(VI) based coating; when the Cr (VI) concentration is \geq the 0,10 $\mu g/cm^2$ and \leq the 0,13 $\mu g/cm^2$, the result is considered to be inconclusive - Unavoidable coating variations may influence the determination.



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(d) [®]RoHS Exemption: 6(c), Copper alloy containing up to 4 % lead by weight.

(e) For necessary wet chemistry measurements (flame retardants, phthalates) components with a weight of less than 0.1 grams are not considered for testing and rating due to technical measurement reasons.

(3) The maximum permissible limit is quoted from the Directive (EU) 2015/863 - Amendment of EU RoHS Directive 2011/65/EU (RoHS 2.0) Annex II.

RoHS Restricted Substances	Maximum Concentration Value (by weight in homogenous materials)			
Lead (Pb)	0.1%			
Cadmium (Cd)	0.01%			
Mercury (Hg)	0.1%			
Hexavalent Chromium (Cr VI)	0.1%			
Polybrominated biphenyls (PBBs)	0.1%			
Polybrominated diphenylethers (PBDEs)	0.1%			
Dibutyl Phthalate (DBP)	0.1%			
Benzylbutyl Phthalate (BBP)	0.1%			
Bis-(2-ethylhexyl) Phthalate (DEHP)	0.1%			
Diisobutyl Phthalate (DIBP)	0.1%			



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Exemptions	
RoHS Directive 2011/65/EU ANNEX Illand (EU	J)2017/2102
Exemption Items	Expires Date
Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):	THE OWNER
1(a), For general lighting purposes < 30 W:3,5 mg	Expires on 24 February 2023
1(b), For general lighting purposes≥ 30 W and < 50W:3,5mg	Expires on 24 February 2023
1(c), For general lighting purposes ≥ 50 W and < 150 W: 5 mg	Expires on 24 February 2023
1(d), For general lighting purposes ≥ 150 W: 15 mg	Expires on 24 February 2023
1(e), For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm: 7 mg	Expires on 24 February 2023
1(f)-I,For lamps designed to emit mainly light in the ultraviolet spectrum: 5 mg	Expires on 24 February 2027
1(f)-II,For special purposes: 5 mg	Expires on 24 February 2025
1(g),For general lighting purposes < 30 W with a lifetime equal or above 20000 h: 3,5 mg	Expires on 24 August 2023
2(a),Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):	O HURA
2(a)(1),Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (e.g. T2): 4 mg	Expires on 24 February 2023
2(a)(2),Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≤ 17 mm (e.g. T5): 3 mg	Expires on 24 August 2023
2(a)(3),Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (e.g. T8):3.5mg	Expires on 24 August 2023
2(a)(4),Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 5 mg	Expires on 24 February 2023
2(a)(5),Tri-band phosphor with long lifetime (≥ 25 000 h): 5 mg	Expires on 24 February 2023
2(b), Mercury in other fluorescent lamps not exceeding (per lamp):	
2(b)(1),Linearhalophosphate lamps with tube > 28 mm (e.g. T10 and T12): 10 mg	Expires on 13 April 2012
2(b)(2),Non-linear halophosphate lamps (all diameters): 15 mg	Expires on 13 April 2016
2(b)(3),Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9):15mg	Expires on 24 February 2023; 10 mg may be used per lamp from 25 February 2023 until 24 February 2025
2(b)(4) -I, Lamps for other general lighting and special purposes (e.g. induction lamps): 15 mg	Expires on 24 February 2025
2(b)(4) -II, Lamps emitting mainly light in the ultraviolet spectrum: 15 mg	Expires on 24 February 2027
2(b)(4) -III, Emergency lamps: 15 mg	Expires on 24 February 2027
3, Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes used in EEE placed on the market before 24 February 2022 not exceeding (per lamp):	WAKTESIN WHIAKTESING



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Exemptions	HIAR HIAR
RoHS Directive 2011/65/EU ANNEX Illand (EU)	2017/2102
Exemption Items	Expires Date
3(a), Short length (≤500 mm):3.5mg	Expires on 24 February 2025
3(b), Medium length (> 500 mm and ≤ 1 500 mm):5mg	Expires on 24 February 2025
3(c), Long length (> 1 500 mm):13mg	Expires on 24 February 2025
4(a), Mercury in other low pressure discharge lamps (per lamp):15mg	Expires on 24 February 2023
4(a)-I,Mercury in low pressure non-phosphor coated discharge lamps, where the application requires the main range of the lamp-spectral output to be in the ultraviolet spectrum: up to 15 mg mercury may be used per lamp	Expires on 24 February 2027
4(b), Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 80: P ≤ 105 W: 16 mg may be used per burner	Expires on 24 February 2027
4(b) -I,rendering indexRa > 60:P ≤155 W:30mg	Expires on 24 February 2023
4(b) -II,rendering index Ra > 60:155 W < P ≤ 405 W:40mg	Expires on 24 February 2023
4(b) -III,rendering index Ra > 60: P > 405 W:40mg	Expires on 24 February 2023
4(c),Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):	TESTING W
4(c)-I,P ≤ 155 W:20mg	Expires on 24 February 2027
4(c)-II,155 W < P ≤ 405 W:25mg	Expires on 24 February 2027
4(c)-III,P> 405 W:25mg	Expires on 24 February 2027
4(d),Mercury in High Pressure Mercury (vapour) lamps (HPMV)	Expires on 13 April 2015
4(e),Mercury in metal halide lamps (MH)	Expires on 24 February 2027
4(f)-I,Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	Expires on 24 February 2025
4(f)-II,Mercury in high pressure mercury vapour lamps used in projectors where an output ≥ 2000 lumen ANSI is required	Expires on 24 February 2027
4(f)-III,Mercury in high pressure sodium vapour lamps used for horticulture lighting	Expires on 24 February 2027
4(f)-IV,Mercury in lamps emitting light in the ultraviolet spectrum	Expires on 24 February 2027
4(g),Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications.	Expires on 31 December 2018
5(a), Lead in glass of cathode ray tubes	WAY TES
5(b), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight	(a)



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	Exemptions	
RoHS Dire	ective 2011/65/EU ANNEX Illand (EU))2017/2102
Exemption Items	-ox TESTING	Expires Date
6(a), Lead as an alloying element in s galvanized steel containing up to 0,35		MANATES IN
6(a)-I,Lead as an alloying element in containing up to 0,35 % lead by weigl steel components containing up to 0,3	nt and in batch hot dip galvanised	IK TESTING
6(b),Lead as an alloying element in a by weight	HUAN AU	HUAKTESTIN HUAKTES!
6(b)-I, Lead as an alloying element in lead by weight	<u> </u>	
6(b)-II, Lead as an alloying element ir lead by weight	n aluminium containing up to 0,4 %	STING
6(c), Copper alloy containing up to 4	% lead by weight	HUAK
7(a), Lead in high melting temperatur containing 85 % by weight or more le	ad)	-mic
7(b), Lead in solders for servers, stora network infrastructure equipment for sand network management for telecon	switching, signalling, transmission,	HUARTESTING
7(c)-I, Electrical and electronic compo ceramic other than dielectric ceramic devices, or in a glass or ceramic matr	in capacitors, e.g. piezoelectronic	JK TESTING
7(c)-II, Lead in dielectric ceramic in ca AC or 250 V DC or higher		HUAKTESTIN
7(c)-III, Lead in dielectric ceramic in c than 125 V AC or 250 V DC	capacitors for a rated voltage of less	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
AND HUARTEST	O HUARTESIN	Expires on: -21 July 2021 for categories 1-7
ESTING TESTING	HUANTESTING	and 10; -21 July 2021 for categories 8 and 9 other than in vitro diagnostic
7(c)-IV, Lead in PZT based dielectric being part of integrated circuits or dis		medical devices and industrial monitoring and control instruments; -21 July 2023 for category 8 in vitro diagnostic medical devices;
HUAKTESTING HUAKTESTING	HUANTESTING HUANTESTING	-21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
8(a), Cadmium and its compounds in	one shot pellet type thermal cut-offs	Expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012
8(b), Cadmium and its compounds in	electrical contacts	HUAN





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HUM HUM	Exemptions	HUN HUN
RoHS Dire	ective 2011/65/EU ANNEX Illand (E	U)2017/2102
Exemption Items	NY TESTING	Expires Date
8(b)-I,Cadmium and its compounds in - circuit breakers, - thermal sensing controls, - thermal motor protectors (excluding - AC switches rated at: 6 A and more more at 125 V AC and more, - DC switches rated at 20 A and more - switches for use at voltage supply from	hermetic thermal motor protectors) e at 250 V AC and more, or 12 A and e at 18 V DC and more, and	
 Hexavalent chromium as an anticol cooling system in absorption refrigera cooling solution 		-STING
9(a)-I,Up to 0,75 % hexavalent chrom anticorrosion agent in the cooling solution of absorption refrigerators (including repartly with electrical heater, having an at constant running conditions	ution of carbon steel cooling systems minibars) designed to operate fully on average utilizedpower input < 75 W	r Applies to categories 1-7 and 10
9(a)-II,Up to 0,75 % hexavalent chromanticorrosion agent in the cooling solution of absorption refrigerators: - designed to operate fully or partly waverage utilised power input ≥ 75 W and the designed to fully operate with nonel	ution of carbon steel cooling systems with electrical heater, having an at constant running conditions,	Applies to categories 1-7 and 10 and expires on 21 July 2021.
9(a)-III,Up to 0,7 % hexavalent chrom anticorrosion agent in the working fluidgas absorption heat pumps for space	d of the carbon steel sealed circuit o	Applies to category 1 and expires on 31 December 2026.
9(b), Lead in bearing shells and bush compressors for heating, ventilation, a (HVACR) applications	es for refrigerant-containing	Applies to categories 8, 9 and 11; expires on: - 21 July 2023 for category 8 in vitro diagnostic medical devices, - 21 July 2024 for category 9 industrial monitoring and control instruments and for category 11, - 21 July 2021 for other subcategories of categories 8 and 9.
9(b)-(I),Lead in bearing shells and bus hermetic scroll compressors with a sta below 9 kW for heating, ventilation, ai (HVACR) applications	ated electrical power input equal or	Applies to category 1; expires on 2 ^o July 2019.
11(a), Lead used in C-press complian	nt pin connector systems	May be used in spare parts for EEE placed on the market before 24 September 2010



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	Exemptions	
RoHS Dir	ective 2011/65/EU ANNEX Illand (EU)	2017/2102
Exemption Items	N TESTING	Expires Date
11(b), Lead used in other than C-pre	ss compliant pin connector systems	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
12, Lead as a coating material for the	e thermal conduction module C-ring	May be used in spare parts for EEE placed on the market before 24 September 2010
13(a), Lead in white glasses used for 13(b), Cadmium and lead in filter glastandards	optical applications sses and glasses used for reflectance	Applies to all categories; expires on: - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring and control instruments and for category 11; - 21 July 2021 for all other categories and subcategories Applies to categories 8, 9 and 11; expires on: - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9
Milak .		industrial monitoring and control instruments and for category 11; - 21 July 2021 for other subcategories of categories 8 and 9
13(b)- (I),Lead in ion coloured optica	l filter glass types	31th 31th
13(b)- (II),Cadmium in striking optica applications falling under point 39 of		HUANTESTA
13(b)- (III),Cadmium and lead in glaz		
14, Lead in solders consisting of more connection between the pins and the lead content of more than 80 % and	e than two elements for the package of microprocessors with a	Expired on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011
15, Lead in solders to complete a via semiconductor die and carrier within		Applies to categories 8, 9 and 11 and expires on: - 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.



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HUAR	Exemptions	HIAR. HIAR.
RoHS Dire	ctive 2011/65/EU ANNEX IIIa	and (EU)2017/2102
Exemption Items	AKTESTING	Expires Date
15(a),Lead in solders to complete a vi the semiconductor die and carrier with packages where at least one of the fo semiconductor technology node of 90 mm2 or larger in any semiconductor to packages with die of 300 mm2 or larger	nin integrated circuit flip chip llowing criteria applies:- a nm or larger; - a single die of echnology node; - stacked die	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.
16, Lead in linear incandescent lamps	with silicate coated tubes	Expires on 1 September 2013
17, Lead halide as radiant agent in higused for professional reprography app 18(a), Lead as activator in the fluores less) of discharge lamps when used a reprography, lithography, insect traps, processes containing phosphors such	olications cent powder (1 % lead by we s speciality lamps for diazopr photochemical and curing	eight or inting
		Expires on: - 21 July 2021 for categories 1-7 and 10; - 21 July 2021 for categories 8 and 9 other than in vitro
18(b), Lead as activator in the fluorescless) of discharge lamps when used a phosphors such as BSP (BaSi ₂ O ₅ :Pb	s sun tanning lamps containii	diagnosticmedical devices and industrial monitoring and control instruments; - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring and control
HUANTES.	WHATES, WAKTES	instruments, and for category 11.
18(b)-l,Lead as activator in the fluores less) of discharge lampscontaining ph when used in medical phototherapy e	osphors such as BSP (BaSi2 quipment	byentry 34 of Annex IV, and expires on 21 July 2021.
19,Lead with PbBiSn-Hg and PbInSn- amalgam and with PbSnHg as auxilial saving lamps (ESL)	ry amalgam in very compact o	energy Expires on 1 June 2011
20,Lead oxide in glass used for bonding fluorescent lamps used for Liquid Cryst		Expires on 1 June 2011



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REPORT No.: HK2306256590-	. 1/4	July 12, 2023	Page	22 of 34	MEST
M. How		xemptions	MID.	6 "	O.
Ro	HS Directive 2011/65/	EU ANNEX Illand (E	U)2017/2102		
Exemption Items			Expires Date		
21, Lead and cadmium in prin glasses, such as borosilicate a			Applies to cate and expires on - 21 July 2021 9 other than in medical device monitoring and - 21 July 2023 vitro diagnostic - 21 July 2024 industrial moni instruments, ai	for categor vitro diagno es and indus I control insi for categor e medical de for category toring and c	ries 8 and ostic strial truments; y 8 in evices; y 9 control
21(a),Cadmium when used in functions, used as a compone displays and control panels of	ent in lighting application		Applies to cate except applica entry 21(b) or on 21 July 202	gories 1 to tions covere entry 39 and	7 and 10 ed by
21(b),Cadmium in printing ink such as borosilicate and soda		enamels on glasses,	Applies to cate except applica entry 21(a) or 3 July 2021.	tions covere	ed by
21(c),Lead in printing inks for borosilicate glasses	the application of enar	mels on other than	Applies to cate and expires on		
23, Lead in finishes of fine pito pitch of 0,65 mm and less	ch components other the	han connectors with a	May be used in placed on the in September 20	market befo	
24, Lead in solders for the sol and planar array ceramic mult	tilayer capacitors	WAY TESTING	Expires on: - 2 categories 1-7 2021 for categ than in vitro dia devices and in and control ins 2023 for categ diagnostic med July 2024 for of monitoring and and for catego	1 July 2021 and 10, - 2 ² ories 8 and agnostic me dustrial mor truments, - ory 8 in vitro dical devices ategory 9 in	1 July 9 other dical nitoring 21 July 0 s,- 21 ndustrial
25, Lead oxide in surface con in structural elements, notably			1000	TING	TESTING
26,Lead oxide in the glass en	- M - N -	10%	Expires on 1 J	une 2011	35-
27,Lead alloys as solder for tr (designated to operate for sev dB SPL and above) loudspeal	eral hours at acoustic		Expired on 24	September	2010



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HUAR	Exemption	ns ^{the}
Rol	HS Directive 2011/65/EU ANN	EX Illand (EU)2017/2102
Exemption Items	AK TESTING	Expires Date
WHAY TES IN	W.LELING WHINLE	Expires on: - 21 July 2021 for categories 1-7 and 10; - 21 July 2021 for categories 8 and
29, Lead bound in crystal glas and 4) of Council Directive 69/	s as defined in Annex I (Catego /493/EEC (¹)	9 other than in vitro diagnosticmedical devices and industrial monitoring and ontrol instruments; - 21 July 2023 for category 8 in
		vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
conductors located directly on powered loudspeakers with so	cal/mechanical solder joints to e the voice coil in transducers us ound pressure levels of 100 dB	sed in high- (A) and more
	s in mercury free flat fluorescen crystal displays, design or indu	
		Expires on: - 21 July 2021 for categories 1-7 and 10,
32, Lead oxide in seal frit used and Krypton laser tubes	d for making window assemblies	 - 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments,
HUAK TESTING		 - 21 July 2023 for category 8 in vitro diagnostic medical devices, - 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
33, Lead in solders for the sold diameter and less in power tra	dering of thin copper wires of 10	
didinicioi dilu less ili powei tia	HUAP TO HUAP TO THE TOTAL	Applies to all categories; expires on: - 21 July 2021 for categories 1-7
34, Lead in cermet-based trim	mer potentiometer elements	and 10, - 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, - 21 July 2023 for category 8 in vitro diagnostic medical devices,
		- 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.



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HUAN	Exemptions	HUAN HUAN
RoHS Dire	ctive 2011/65/EU ANNEX Illand (EU)	2017/2102
Exemption Items	AK TESTING	Expires Date
36, Mercury used as a cathode sputte with a content up to 30 mg per display		Expired on 1 July 2010
37, Lead in the plating layer of high voborate glass body	oltage diodes on the basis of a zinc	Expires on: - 21 July 2021 for categories 1-7 and 10; - 21 July 2021 for categories 8 and 9 other than in vitro diagnosticmedical devices and industrial monitoring and control instruments; - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
38, Cadmium and cadmium oxide in t bonded beryllium oxide	MAKTES	HUAN TESTING
39(a), Cadmium selenide in downshift nanocrystal quantum dots for use in d Cd per mm2 of display screen area)		Expires for all categories on 31 October 2019
40, Cadmium in photoresistors for ana professional audio equipment	alogue optocouplers applied in	Expires on 31 December 2013
41, Lead in solders and termination fir components and finishes of printed ci and other electrical and electronic eng technical reasons must be mounted d cylinder of hand-held combustion eng Directive 97/68/EC of the European P	rcuit boards used in ignition modules gine control systems, which for irectly on or in thecrankcase or ines (classes SH:1, SH:2, SH:3 of earliament and of the Council (2))	Applies to all categories and expires on: - 31 March 2022 for categories 1 to 7, 10 and 11; - 21 July 2021 for categories 8 and 9 other than in vitro diagnosticmedical devices and industrial monitoring and control instruments; - 21 July 2023 for category 8 in vitro diagnostic medical devices; - 21 July 2024 for category 9 industrial monitoring and control instruments.
42,Lead in bearings and bushes of dicinternal combustion engines applied in equipment:- with engine total displacement < 15 litres and the applications where the time between required to be less than 10 seconds; operformed in a harsh and dirty outdoor construction, and agriculture applications.	n non-road professional use ement ≥ 15 litres; or - with engine engine is designed to operate in signal to start and full load is or regular maintenance is typically or environment, such as mining,	Applies to category 11, excluding applications covered by entry 6(c) of this Annex. Expires on 21 July 2024.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

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Date. July 12, 2023	Page 25 01 34
Exemptions	HUAR HUAR
ective 2011/65/EU ANNEX Illand	d (EU)2017/2102
	Expires Date
ner components in engine system not intended solely for consumer material comes into contact with rolonged contact with human skirethylhexyl) phthalate does not i) gasket coatings; (ii) solid-rubbe cluded in assemblies of at least tical or hydraulic energy to do wo	n Applies to category 11 and expires on 21 July 2024
ubbercontaining components not ses of this entry, 'prolonged conta contact of more than 10 minutes a period of 30 minutes, per day	
rs, and engine control units of of Regulation (EU) 2016/1628 of ncil (4), installed in equipment us which is designed for professional ers	sed Applies to category 11 and expires
dipicramate, orange lead (lead l electronic initiators of explosives fromate in long time pyrotechnic	on 20 April 2026
	Exemptions ctive 2011/65/EU ANNEX Illand er components in engine system not intended solely for consume naterial comes into contact with olonged contact with human ski othylhexyl) phthalate does not gasket coatings; (ii) solid-rubbe cluded in assemblies of at least cal or hydraulic energy to do wo abbercontaining components not es of this entry, 'prolonged cont ontact of more than 10 minutes period of 30 minutes, per day es, and engine control units of of Regulation (EU) 2016/1628 of acid (4), installed in equipment us hich is designed for professional ers dipicramate, orange lead (lead electronic initiators of explosive

** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2023/06/29	Jason Zhou
Revision 2.0	All test data were obtained from: HK2306256589-1RR	2023/07/12	Jason Zhou
G	THIS HUAN	THIS HUAR	JG M



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Photo(s) of the sample(s)







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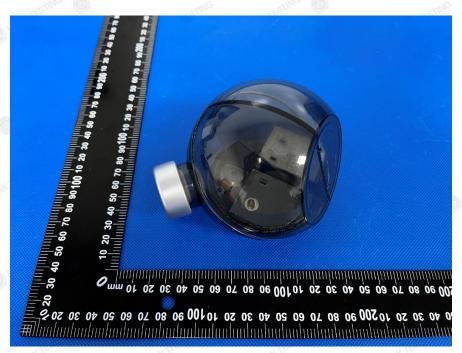






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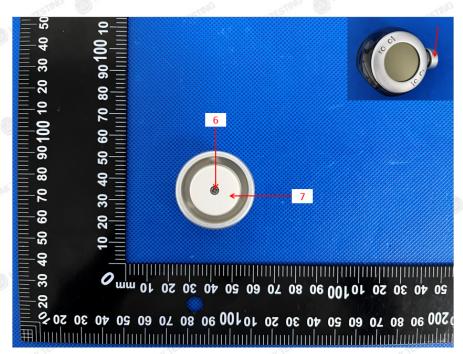






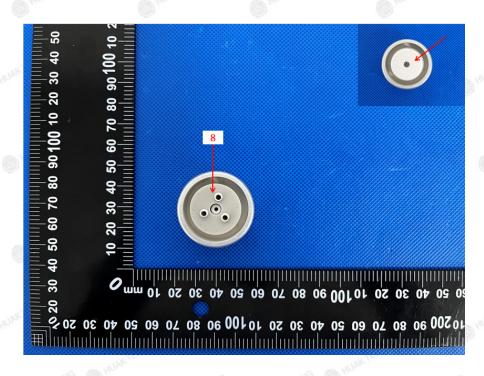
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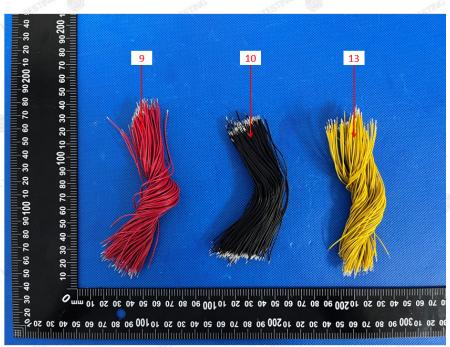






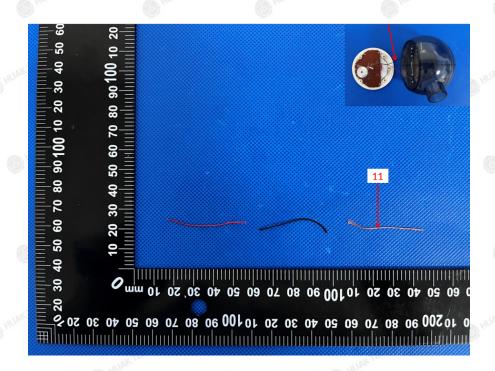
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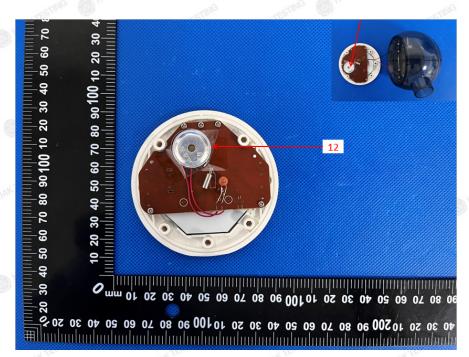






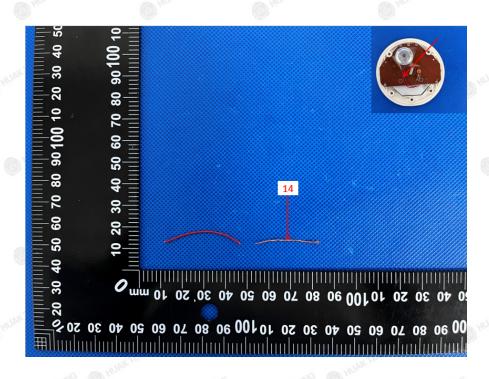
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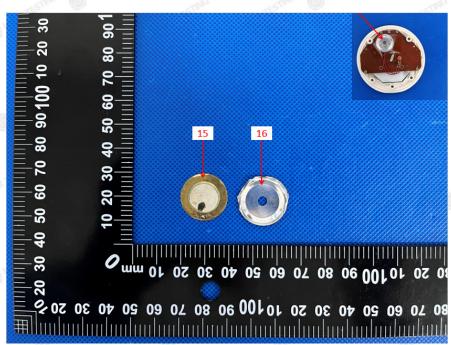






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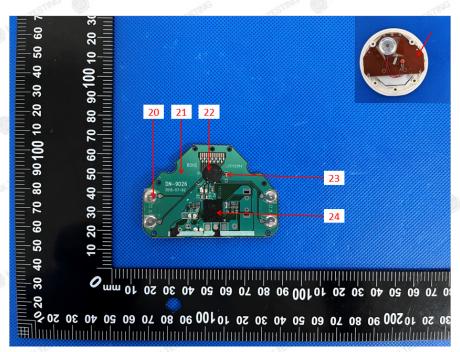
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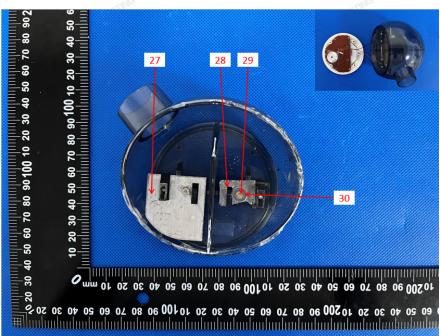






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