



# TEST REPORT

**Report No.: 2506U30343E**

Date: July 02, 2025

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**Shenzhen Chuangtong Electronic Instruments Co., Ltd.**

**1501, Shenzhen Luohu Investment Holding Building B, 112 Qingshuihe 1st Road, Luohu District, Shenzhen, Guangdong, China 518000**

Report on the submitted samples said to be:

Sample Description: MYTREX ELEXA HAND MT-EH24B

Sample Receiving Date: June 09, 2025

Testing Period: June 09, 2025 - June 27, 2025

Result: Please refer to next page(s).

Signed for and on behalf of

BACL

*Mila*

Checked by: \_\_\_\_\_  
Mila Pan

*Fedor*

Approved by: \_\_\_\_\_  
Fedor Zhang

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Summary of Test Result:

**TEST REQUEST**

A RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863

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A.2 Wet Chemical Testing

A.2.1 Total Lead Content

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

A.2.3 PBBs & PBDEs content

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

**CONCLUSION**

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 No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(1)*	White plastic with gunmetal coating(shell,grip ball)	BL	BL	BL	IN	BL
(2)	Black soft plastic(shell,grip ball)	BL	BL	BL	BL	BL
(3)	Bright black printed black plastic(shell,grip ball)	BL	BL	BL	BL	BL
(4)	Grey printed black soft plastic(cover,charging port)	BL	BL	BL	BL	BL
(5)	Silvery metal(screw,shell,grip ball)	BL	BL	BL	BL	---
(6)	Silvery metal(partition board,grip ball)	BL	BL	BL	BL	---
(7)*	Silvery metal(screw,partition board,grip ball)	BL	BL	BL	IN	---
(8)	Grey printed black plastic(button,switch)	BL	BL	BL	BL	BL
(9)	Bright black plastic(fixer,button,switch)	BL	BL	BL	BL	BL
(10)	Grey transparent plastic(lampshade,pilot lamp,grip ball)	BL	BL	BL	BL	BL
(11)	Black soft plastic(base,lampshade,pilot lamp)	BL	BL	BL	BL	BL
(12)	Silvery metal(screw,PCB"GB001-B-V2.0.2")	BL	BL	BL	BL	---
(13)*	Blue/white body(PFC,PCB"GB001-B-V2.0.2")	BL	BL	BL	BL	IN
(14)	Blue plastic(sticker,PFC,PCB"GB001-B-V2.0.2")	BL	BL	BL	BL	BL
(15)	Black plastic(plug,PFC)	BL	BL	BL	BL	BL
(16)	Beige white plastic(slot,PFC)	BL	BL	BL	BL	BL
(17)	Silvery metal(pin,slot,PFC)	BL	BL	BL	BL	---
(18)	Silvery metal(fixer,slot,PFC)	BL	BL	BL	BL	---
(19)*1	Black body(resistance,PCB"GB001-B-V2.0.2")	OL	BL	BL	BL	BL
(20)	Black plastic(shell,switch,PCB"GB001-B-V2.0.2")	BL	BL	BL	BL	BL
(21)	Black plastic(button,switch,PCB"GB001-B-V2.0.2")	BL	BL	BL	BL	BL
(22)	Silvery metal(cover,switch,PCB"GB001-B-V2.0.2")	BL	BL	BL	BL	---
(23)*	Silvery metal(elastic tablet,switch,PCB"GB001-B-V2.0.2")	BL	BL	BL	IN	---
(24)	Silvery metal(connector,switch,PCB"GB001-B-V2.0.2")	BL	BL	BL	BL	---
(25)	White glue(sticker,PCB"GB001-B-V2.0.2")	BL	BL	BL	BL	BL
(26)	Yellow body(LED,PCB"GB001-B-V2.0.2")	BL	BL	BL	BL	BL
(27)	Silvery solder(solder,PCB"GB001-B-V2.0.2")	BL	BL	BL	BL	---
(28)*	Green PCB(PCB"GB001-B-V2.0.2")	BL	BL	BL	BL	IN

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(29)	Transparent plastic(fixer,PCB"GB001-B-V2.0.2")	BL	BL	BL	BL	BL
(30)*#2	Gold metal(pin,PCB"GB001-C-V2.0.2")	OL	BL	BL	BL	---
(31)*#2	Gold metal(base,pin,PCB"GB001-C-V2.0.2")	OL	BL	BL	BL	---
(32)*	Silvery metal(spring,pin,PCB"GB001-C-V2.0.2")	BL	BL	BL	IN	---
(33)*	Silvery metal(shell,charging port,PCB"GB001-C-V2.0.2")	BL	BL	BL	IN	---
(34)	Silvery metal(pin,charging port,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	---
(35)	Black plastic(fixer,pin,charging port)	BL	BL	BL	BL	BL
(36)	Black body(diode,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	BL
(37)	Silvery materials(diode,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	BL
(38)	Black body(audion,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	BL
(39)	Black body(inductance,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	BL
(40)	Brown body(capacitance,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	BL
(41)*#1	Black body(resistance,PCB"GB001-C-V2.0.2")	OL	BL	BL	IN	BL
(42)	Beige plastic(slot,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	BL
(43)	Silvery metal(pin,slot,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	---
(44)	Silvery metal(fixer,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	---
(45)	White plastic(plug,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	BL
(46)	Silvery metal(pin,plug,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	---
(47)	Black printed rose red plastic(wire jacket,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	BL
(48)	Black printed green plastic(wire jacket,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	BL
(49)	Grey printed black plastic(wire jacket,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	BL
(50)	White printed blue plastic(wire jacket,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	BL
(51)	Silvery metal(wire,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	---
(52)	Silvery solder(solder,PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	---
(53)*	Green PCB(PCB"GB001-C-V2.0.2")	BL	BL	BL	BL	IN
(54)	Black EVA sponge with glue(sticker,battery)	BL	BL	BL	BL	BL
(55)	Yellow transparent plastic tape(wrappage,PCB,battery)	BL	BL	BL	BL	BL
(56)	Silvery metal(connector,battery)	BL	BL	BL	BL	---
(57)	Silvery metal(connector,PCB,battery)	BL	BL	BL	BL	---
(58)	Black body(IC,battery)	BL	BL	BL	BL	BL
(59)	Black body(resistance,battery)	BL	BL	BL	BL	BL

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(60)	Silvery solder(solder,PCB,battery)	BL	BL	BL	BL	---
(61)*	DK.Green PCB(PCB,battery)	BL	BL	BL	BL	IN
(62)	White plastic(plug,battery)	BL	BL	BL	BL	BL
(63)	Black printed red plastic(wire jacket,battery)	BL	BL	BL	BL	BL
(64)	White printed black plastic(wire jacket,battery)	BL	BL	BL	BL	BL
(65)	Black body(IC"U1",PCB"GB001-A-V2.1")	BL	BL	BL	BL	BL
(66)	Black printed yellow plastic(shell,capacitance,PCB"GB001-A-V2.1")	BL	BL	BL	BL	BL
(67)	Silvery metal(shell,capacitance,PCB"GB001-A-V2.1")	BL	BL	BL	BL	---
(68)	Transparent plastic(film,capacitance,PCB"GB001-A-V2.1")	BL	BL	BL	BL	BL
(69)	Brown paper with liquid(film,capacitance,PCB"GB001-A-V2.1")	BL	BL	BL	BL	BL
(70)	Grey metal(foil,capacitance,PCB"GB001-A-V2.1")	BL	BL	BL	BL	---
(71)	Dark silvery metal(foil,capacitance,PCB"GB001-A-V2.1")	BL	BL	BL	BL	---
(72)	Silvery metal(connector capacitance,PCB"GB001-A-V2.1")	BL	BL	BL	BL	---
(73)	Black plastic(fixer,capacitance,PCB"GB001-A-V2.1")	BL	BL	BL	BL	BL
(74)	Black printed black magnet(core,inductance,PCB"GB001-A-V2.1")	BL	BL	BL	BL	BL
(75)	Coppery metal(coil,inductance,PCB"GB001-A-V2.1")	BL	BL	BL	BL	---
(76)	Silvery solder(solder,PCB"GB001-A-V2.1")	BL	BL	BL	BL	---
(77)*	Green PCB(PCB"GB001-A-V2.1")	BL	BL	BL	BL	IN

Note:

--- = Not Applicable.

\* = 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. 19,41 are 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.

\*2 = According to the material declaration provided by the client, the sample of test No. 30,31 are exempted accordance with Annex III 6(c) of directive 2011/65/EU. The exempt items of Annex III 6(c) of directive 2011/65/EU: Copper alloy containing up to 4% lead by weight.

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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	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$

**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

Item	Unit	RL	Result			
			(19)	(30)	(31)	(41)
Lead(Pb)	mg/kg	10	1736	31262	29602	1305

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

Test method: IEC 62321-7-2:2017

Item	Unit	RL	Result		Limit
			(1)	(41)	
hexavalent chromium(Cr(VI))	mg/kg	10	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	/

Test method: IEC 62321-7-1:2015

Item	Unit	RL	Result				Limit
			(7)	(23)	(32)	(33)	
hexavalent chromium(Cr(VI))	µg/cm <sup>2</sup>	0.10	N.D.	N.D.	N.D.	N.D.	See Remark
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Limit Remark:

- The sample is positive for CrVI if the CrVI concentration is greater than 0.13µg/cm<sup>2</sup>. The sample coating is considered to contain CrVI
  - The sample is negative for CrVI if CrVI is ND (concentration less than 0.10µg/cm<sup>2</sup>). The coating is considered a non-CrVI based coating
  - The result between 0.10µg/cm<sup>2</sup> and 0.13µg/cm<sup>2</sup> 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.

### A.2.3 PBBs & PBDEs content

Test method: IEC 62321-6:2015

Item	Unit	RL	Result					Limit
			(13)	(28)	(53)	(61)	(77)	
Monobromobiphenyl (MonoBB)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromobiphenyl(DiBB)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromobiphenyl(TriBB)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tetrabromobiphenyl(TetraBB)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromobiphenyl(PentaBB)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Hexabromobiphenyl(HexaBB)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-

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Item	Unit	RL	Result					Limit
			(13)	(28)	(53)	(61)	(77)	
Heptabromobiphenyl (HeptaBB)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Octabromobiphenyl (OctaBB)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromobiphenyl (NonaBB)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromobiphenyl (DecaBB)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromodiphenyl ether (DiBDE)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromodiphenyl ether (TriBDE)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tetrabromodiphenyl ether (TetraBDE)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	-
sum of MonoBDE, DiBDE, TriBDE, TetraBDE, PentaBDE, HexaBDE, HeptaBDE, OctaBDE, NonaBDE, DecaBDE	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	1000
sum of MonoBB, DiBB, TriBB, TetraBB, PentaBB, HexaBB, HeptaBB, OctaBB, NonaBB, DecaBB	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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

Test method: IEC 62321-8:2017

Item	Unit	RL	Result						Limit
			(1)+(2)+(3) +(4)+(8)	(9)+(10)+ (11)+(14)+ (15)	(13)+(19)+ (36)+(38)+ (39)	(16)+(20)+ (21)+(25)+ (29)	(26)	(28)	
Dibutyl Phthalate(DBP)	%	0.010	N.D.	N.D.	N.D.	N.D.	0.017	N.D.	0.1
Benzyl Butyl Phthalate(BBP)	%	0.010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.010	N.D.	N.D.	N.D.	N.D.	0.012	N.D.	0.1
Diisobutyl phthalate(DIBP)	%	0.010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	RL	Result						Limit
			(35)+(42)+ (45)+(54)+ (55)	(40)+(41)+ (58)+(59)+ (65)	(47)+(48)+ (49)	(50)+(63)+ (64)	(53)	(61)	
Dibutyl Phthalate(DBP)	%	0.010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Benzyl Butyl Phthalate(BBP)	%	0.010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.010	N.D.	N.D.	0.017	0.012	N.D.	N.D.	0.1
Diisobutyl phthalate(DIBP)	%	0.010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	RL	Result				Limit
			(62)	(66)	(68)	(69)	
Dibutyl Phthalate(DBP)	%	0.010	N.D.	N.D.	N.D.	N.D.	0.1
Benzyl Butyl Phthalate(BBP)	%	0.010	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.010	N.D.	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate(DIBP)	%	0.010	N.D.	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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Item	Unit	RL	Result			Limit
			(73)	(74)	(77)	
Dibutyl Phthalate(DBP)	%	0.010	N.D.	N.D.	N.D.	0.1
Benzyl Butyl Phthalate(BBP)	%	0.010	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.010	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate(DIBP)	%	0.010	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Note:

- N.D. = Not Detected or less than RL
- RL = Report Limit
- 0.1% = 1000 mg/kg, mg/kg = ppm
- "+" = Mixed, Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight. 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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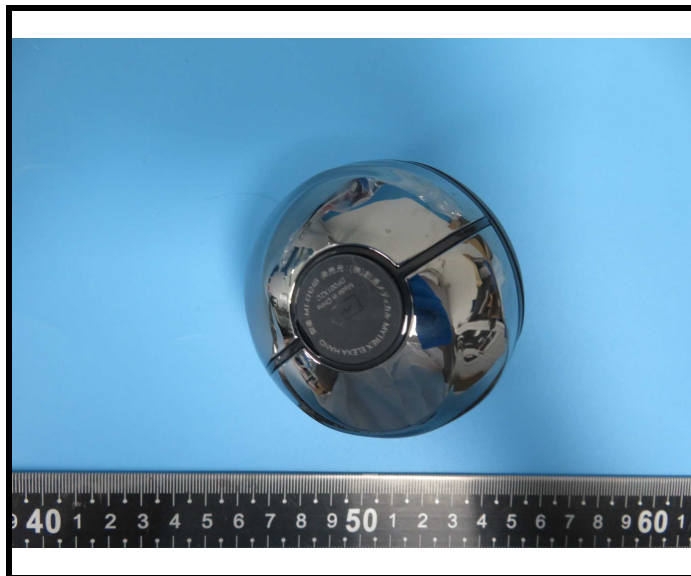
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Photograph of Sample



BACL authenticate the photo on original report only

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Statement:

- 1.This report cannot be reproduced except in full, without prior written approval of the Company.
- 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.
- 3.This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
- 4.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
- 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 \*\*\*