

# **Test Report**

Report No. : AGC05443220907-001

- SAMPLE NAME : Smartphone video kit
- MODEL NAME : MO6843
- **APPLICANT** : MID OCEAN BRANDS B.V
- **STANDARD(S)** : Please refer to the following page(s).
- DATE OF ISSUE : Sep. 15, 2022





Applicant	:	MID OCEAN BRANDS B.V
Address	:	7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong
		Kong.
Test Site	:	6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
		Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

#### Report on the submitted sample(s) said to be:

Sample Name	:	Smartphone video kit
Model	:	MO6843
Vendor code	:	114276
Country of Origin	:	CHINA
Country of Destination	:	EUROPE
Sample Received Date	:	Sep. 05, 2022
Testing Period	:	Sep. 05, 2022 to Sep. 13, 2022
Test Requested	:	Selected test(s) as requested by client.

#### **Test Requested:**

#### Conclusion

2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 - Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Pass

Approved by: Jessie ling

Liangdan, Jessie.Liang

**Technical Director** 

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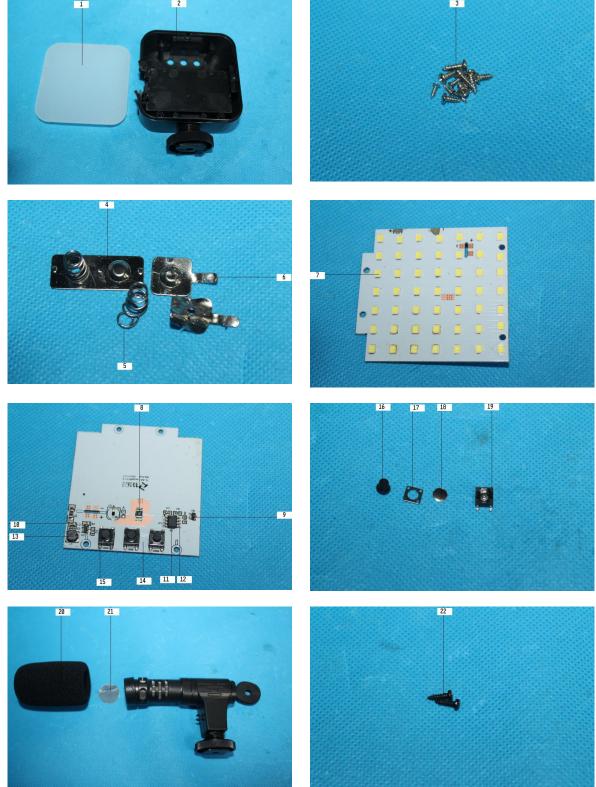


#### Report Revise Record

Report Version	Issued Date	Valid Version	Notes			
/	Sep. 15, 2022	Valid	Initial release			



# The photo of the sample



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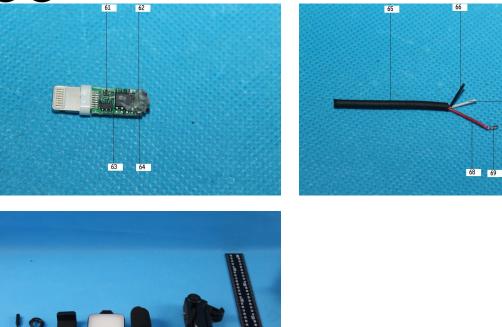
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67



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Test point	Test module	Test parts	Test point description		
Smartphone	e video kit				
1		Oratan al all	Milk white plastic		
2		Outer shell	Black plastic shell		
3			Sliver screw		
4			Metallic sheet		
5		Battery chip	Metal spring		
6			Solder		
7			Chip LED		
8			Chip resistor		
9			Chip triode		
10			Chip capacitor		
11			IC body		
12	Circuit board		Tinning		
13			Black magnetic frame inductance		
14	-		РСВ		
15			Solder		
16		Vari	Black plastic button		
17	]	Key	Metallic shell		

#### **Test Point Description**

GC			Page
18			Metallic shrapnel
19			Grey plastic base
20		— Microphone shell	Black foam cover
21		1	Metal sound net
22			Black screw
23			Black foam ring
24			Metallic shell
25		Microphone	PCB
26			Solder
27			Black wire jacket
28			Red wire jacket
29			Black plastic in audio connector
30		Circuit board	Chip resistor
31		Circuit board	PCB
32			Solder
33			Black foam with glue
34			Black plastic shell
35		Telescopic frame	Copper nut
36			Metal spring
37			Black silicone sheet
38			Metallic screw
39		Tripod	Metal spring
40			Black silicone pad
Audio li	ine		
41			Metal plug
42			Metal ring
43		Audio plug	Black plastic plug
44		1 &	Solder
45			Black handle
46			Black outer wire jacket
47			Black label
48		Wire rod	Black wire jacket
49			Red wire jacket
Transfer			
50			Metal ring
51			Black plastic
52		Adaptor	Solder
53			Black plastic handle
55			Black buckle
55			Lightning metal plug
<u>55</u> 56			
		Lightning plug	White plastic plugWhite plastic
57		0 01 0	



59		Tinning
60		Black buckle
61		Chip capacitor
62		Hot melt adhesive
63		PCB
64		Solder
65		Black outer wire jacket
66		Black wire jacket
67	 Wire rod	White wire jacket
68		Red wire jacket
69		Conductor

Note: "---" = The test point exists alone in the sample and is not attached to the test module or test parts.



Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit %= percentage (W/W)

Test Item	Test Method/ Instrument	MDL	Maximum Limit
Lead (Pb)		/	1000mg/kg
Cadmium (Cd)		/	100mg/kg
Mercury (Hg)	IEC 62321-3-1:2013/ XRF	/	1000mg/kg
Total Chromium		/	/
Total Bromine		/	/
Chemistry Method		_1	
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	10mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	10mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	10mg/kg	1000mg/kg
Non-metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	1000mg/kg
Metal Hexavalent Chromium (Cr <sup>6+</sup> ) Polybrominated Biphenyls (PBBs)	IEC 62321-7-1:2015/ UV-Vis	0.1µg/cm <sup>2</sup>	/
-Monobromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromodiphenyl (NonaBB) -Decabromodiphenyl (DecaBB)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
PolybrominatedDiphenylethers (PBDEs) -Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
Di-iso-butyl phthalate (DIBP)		50mg/kg	1000mg/kg
Dibutyl phthalate (DBP)		50mg/kg	1000mg/kg
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	1000mg/kg
Duryioenzyi pinnaiane (DDr)		Joing/kg	1000mg/kg

## 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 - Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	]	Pb	BL	/	
	(	Cd	BL	/	
	]	Hg	BL	/	
	Cr(	Cr <sup>6+</sup> )	BL	/	
1	Br	PBBs PBDEs	BL	/	Conformity
	D	IBP	N/A	N.D.	
		BP	N/A	N.D.	
		BP	N/A	N.D.	
		EHP	N/A	N.D.	
		Pb	BL	/	
		Cd	BL	/	
·		Hg	BL	/	
·		$\frac{1}{Cr^{6^+}}$	BL	/	
·		PBBs	DL	N.D.	Conformity
2	Br	PBDEs	- IN -	301	
			N/A	N.D.	
·	DIBP		N/A N/A	N.D.	
	DBP				
	BBP DEHP		N/A	N.D.	
			N/A	N.D.	
·	Pb		BL	/	
·	Cd		BL	/	
	Hg		BL	/	
	$\frac{Cr(Cr^{6^+})}{Br} \frac{PBBs}{PBDEs}$		BL	/	
3			- N/A	/	Conformity
	D	IBP	N/A	/	- - -
	D	BP	N/A	/	
	В	BP	N/A	/	
	D	EHP	N/A	/	
	]	Pb	BL	/	 
	(	Cd	BL	/	
	Hg		BL	/	1
		Cr <sup>6+</sup> )	BL	/	
4	Br PBBs PBDEs		- N/A	/	Conformity
·	n	IBP	N/A	/	
·		BP	N/A N/A	/	
		BP	N/A N/A	/	
		EHP	N/A	/	



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	F	Ъ	BL	/	
	(	Cd	BL	/	
	H	Ig	BL	/	
		Cr <sup>6+</sup> )	BL	/	
5	Br	PBBs PBDEs	N/A	/	Conformity
	DI	BP	N/A	/	
		BP	N/A N/A	/	
		BP	N/A N/A	/	
	-	EHP	N/A N/A	/	
		b	BL	/	
		Cd	BL	/	
			BL	/	
		Ig Cr <sup>6+</sup> )	BL	/	
		1	BL	/	
6	Br	PBBs PBDEs	N/A	/	Conformity
	DIBP DBP BBP		N/A	/	
			N/A	/	
			N/A	/	
	DEHP		N/A	/	
	F	Ъ	BL	/	
	Cd		BL	/	
	Hg		BL	/	
	Cr(Cr <sup>6+</sup> )		BL	/	
7	Br	PBBs PBDEs	BL	/ /	Conformity
	DI	BP	N/A	N.D.	
	D	BP	N/A	N.D.	
		BP	N/A	N.D.	
	DE	EHP	N/A	N.D.	
		Ъ	BL	/	
		Cd	BL	/	
		Ig	BL	/	
		Cr <sup>6+</sup> )	BL	/	
8	Br PBBs PBDEs		BL	/	Conformity
	ות	BP	N/A	N.D.	
		BP	N/A	N.D.	
		BP	N/A	N.D.	
		EHP	N/A	N.D.	



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion	
	F	Ъ	BL	/		
	(	Cd	BL	/		
	ŀ	Ig	BL	/		
	Cr(	Cr <sup>6+</sup> )	BL	/		
9	Br	PBBs PBDEs	BL	/ /	Conformity	
	DI	BP	N/A	N.D.		
	D	BP	N/A	N.D.		
	B	BP	N/A	N.D.		
	DE	EHP	N/A	N.D.		
	F	Ъ	BL	/		
	(	Cd	BL	/		
	H	Ig	BL	/		
	Cr(	Cr <sup>6+</sup> )	BL	/		
10	Л	PBBs	DI	/		
10	Br	PBDEs	BL	/	Conformity	
	DI	BP	N/A	N.D.		
	DBP BBP		N/A	N.D.		
			N/A	N.D.		
	DEHP		N/A	N.D.		
	Pb		BL	/		
	Cd		BL	/		
	ŀ	łg	BL	/		
	Cr(Cr <sup>6+</sup> )		BL	/		
11	Br PBBs PBDEs		- BL	/ /	Conformity	
	DI	BP	N/A	N.D.		
	D	BP	N/A	N.D.		
	B	BP	N/A	N.D.		
	DE	EHP	N/A	N.D.		
	I	Ъ	BL	/		
	(	Cd	BL	/		
	ŀ	Ig	BL	/		
	Cr(	Cr <sup>6+</sup> )	BL	/		
12	Br	PBBs PBDEs	- N/A	/ /	Conformity	
	DI	BP	N/A	/		
	D	BP	N/A	/		
	B	BP	N/A	/		
	DE	EHP	N/A	/		



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion	
	F	Ъ	BL	/		
	(	Cd	BL	/	Conformity	
	H	Ig	BL	/		
	Cr(0	Cr <sup>6+</sup> )	BL	/		
13	Br	PBBs PBDEs	- BL	/		
	DI	BP	N/A	N.D.		
	D	BP	N/A	N.D.		
	B	BP	N/A	N.D.		
	DE	CHP	N/A	N.D.		
	F	b	BL	/		
	(	Cd	BL	/		
	F	Ig	BL	/		
	Cr(0	Cr <sup>6+</sup> )	BL	/		
14	р	PBBs	DI	N.D.		
14	Br	PBDEs	- IN	N.D.	Conformity	
	DIBP DBP BBP		N/A	N.D.		
			N/A	N.D.		
			N/A	N.D.		
	DE	HP	N/A	N.D.		
	F	b	BL	/		
	(	Cd	BL	/		
	H	Ig	BL	/		
	Cr(Cr <sup>6+</sup> )		BL	/		
15	Br PBBs PBDEs		- N/A	/	Conformity	
	DI	BP	N/A	/		
	D	BP	N/A	/		
	B	BP	N/A	/		
	DE	HP	N/A	/		
	F	b	BL	/		
	(	Cd	BL	/		
	H	Ig	BL	/		
		Cr <sup>6+</sup> )	BL	/		
16	Br PBBs PBDEs		- BL	/ /	Conformity	
	DI	BP	N/A	N.D.		
		BP	N/A	N.D.		
		BP	N/A	N.D.		
		CHP	N/A	N.D.		



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	P	b	BL	/	
	C	Cd	BL	/	
	H	Ig	BL	/	
	Cr(0	Cr <sup>6+</sup> )	BL	/	
17	Br	PBBs PBDEs	- N/A	/	Conformity
	DI	BP	N/A	/	
		BP	N/A	/	
	B	BP	N/A	/	
	DE	HP	N/A	/	
	P	Ъ	BL	/	
	0	Cd	BL	/	
	H	Ig	BL	/	
		Cr <sup>6+</sup> )	IN	N.D.	
		PBBs		/	
18	Br	PBDEs	- N/A -	/	Conformity
	DIBP DBP BBP		N/A	/	
			N/A	/	
			N/A	/	
	DEHP		N/A	/	
		b	BL	/	
	-	Cd	BL	/	
		Ig	BL	/	
	Cr(Cr <sup>6+</sup> )		BL	/	
19	Br	PBBs PBDEs	BL	/	Conformity
	DI	BP	N/A	N.D.	
	D	BP	N/A	N.D.	
		BP	N/A	N.D.	
	DE	HP	N/A	N.D.	
		Ъ	BL	/	
	-	Cd	BL	/	
	H	Ig	BL	/	
		Cr <sup>6+</sup> )	BL	/	
20	Br PBBs PBDEs		BL	/ /	Conformity
	DI	BP	N/A	N.D.	
		BP	N/A	N.D.	
		BP	N/A	N.D.	
		HP	N/A	N.D.	



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	Pb		BL	/	
	C	d	BL	/	
	Н	[g	BL	/	
	Cr(0	Cr <sup>6+</sup> )	IN	N.D.	
21	6	PBBs		/	
21	Br	PBDEs	N/A	/	Conformity
	DI	BP	N/A	/	
	D	BP	N/A	/	
	B	3P	N/A	/	
	DE	HP	N/A	/	
	Р	'b	BL	/	
	C	d	BL	/	
	Н	[g	BL	/	
		$Cr^{6+}$ )	BL	/	
		PBBs		/	Conformity
22	Br	PBDEs	— N/A —	/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DE		N/A	/	
		'b	BL	/	
		d	BL	/	
		[g	BL	/	
		$Cr^{6+}$	BL	/	
23	Br	PBBs PBDEs	- BL	/	Conformity
	DI		N/A	N.D.	
		BP	N/A	N.D.	
	Bl		N/A	N.D.	
		HP	N/A	N.D.	
		'b	IN	80	
		d	BL	/	
		[g	BL	/	
		$Cr^{6+}$	BL	/	
24	Br	PBBs PBDEs	- N/A	/	Conformity
	וח	BP	N/A	/	
		BP	N/A	/	
		3P	N/A	/	
		HP	N/A N/A	/	



Test point	Test	Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	P	b	BL	/	
	C	Cd	BL	/	
	F	Ig	BL	/	
	Cr(0	Cr <sup>6+</sup> )	BL	/	
25	Br	PBBs PBDEs	BL	/	Conformity
	DI	BP	N/A	N.D.	
		BP	N/A	N.D.	
	B	BP	N/A	N.D.	
		HP	N/A	N.D.	
		Ъ	BL	/	
		Cd	BL	/	
		Ig	BL	/	
		Cr <sup>6+</sup> )	BL	/	
		PBBs		/	
26	Br	PBDEs	– N/A	/	Conformity
	DIBP		N/A	/	
	DBP		N/A	/	
		BP	N/A	/	
	DEHP		N/A	/	
		Ъ	BL	/	
		Cd	BL	/	
		Ig	BL	/	
		<u>Cr<sup>6+</sup>)</u>	BL	/	
27	Br	PBBs PBDEs	BL	/	Conformity
	DI	BP	N/A	N.D.	
		BP	N/A	N.D.	
		BP	N/A	N.D.	
		HP	N/A	N.D.	
		Ъ	BL	/	
		Cd	BL	/	
	H	Ig	BL	/	
		Cr <sup>6+</sup> )	BL	/	
28	PBBs		BL	/	Conformity
	DI	BP	N/A	N.D.	
		BP	N/A	N.D.	
		BP	N/A	N.D.	
		CHP	N/A	N.D.	



Test point	Test	Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	Pl	b	BL	/	
	C	d	BL	/	
	H	g	BL	/	
	Cr(C	2r <sup>6+</sup> )	BL	/	
29	Br	PBBs PBDEs	BL	/ /	Conformity
	DI	3P	N/A	N.D.	
	DE	3P	N/A	N.D.	
	BE	3P	N/A	N.D.	
	DE	HP	N/A	N.D.	
	Pl	b	BL	/	
	С	d	BL	/	
	H	g	BL	/	
	Cr(C	-	BL	/	
30	Br	PBBs PBDEs	BL	/	Conformity
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
	Pl	b	BL	/	
	C	d	BL	/	
	Н	g	BL	/	
	Cr(C		BL	/	
31	Br	PBBs PBDEs	BL	/	Conformity
	DII	BP	N/A	N.D.	
	DE	3P	N/A	N.D.	
	BE	3P	N/A	N.D.	
	DE	HP	N/A	N.D.	
	Pl	b	BL	/	
	C	d	BL	/	
	Hg		BL	/	
	Cr(C	2r <sup>6+</sup> )	BL	/	
32	Br PBBs PBDEs		- N/A	/ /	Conformity
	DII		N/A	/	
	DE	3P	N/A	/	
	BE	3P	N/A	/	
	DE	нг	N/A	/	



Test point	Test	Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	F	Ъ	BL	/	
	(	Cd	BL	/	
	ŀ	Ig	BL	/	
	Cr(	Cr <sup>6+</sup> )	BL	/	
33	Br	PBBs PBDEs	BL	/	Conformity
	DI	BP	N/A	N.D.	
	D	BP	N/A	N.D.	
	B	BP	N/A	N.D.	
	DE	EHP	N/A	568	
	F	Ъ	BL	/	
	(	Cd	BL	/	
	ŀ	Ig	BL	/	
	Cr(	Cr <sup>6+</sup> )	BL	/	
24	D.,	PBBs	DI	/	Carlowitz
34	Br	PBDEs	- BL -	/	Conformity
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
	F	Ъ	BL	/	
	(	Cd	BL	/	
	H	łg	BL	/	
	Cr(	Cr <sup>6+</sup> )	BL	/	
35	Br	PBBs PBDEs	- N/A	/ /	Conformity
	DI	BP	N/A	/	
	D	BP	N/A	/	
	B	BP	N/A	/	
	DE	EHP	N/A	/	
	F	Ъ	BL	/	
	(	Cd	BL	/	
	ŀ	Ig	BL	/	
	Cr(	Cr <sup>6+</sup> )	BL	/	
36	Br PBBs PBDEs		- N/A	/ /	Conformity
	DI	BP	N/A	/	
		BP	N/A	/	
		BP	N/A	/	
		ЕНР	N/A	/	



Test point	Test	Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	F	b	BL	/	
	(	Cd	BL	/	
	H	Ig	BL	/	
	Cr(0	Cr <sup>6+</sup> )	BL	/	
37	Br	PBBs PBDEs	BL	/	Conformity
	DI	BP	N/A	N.D.	
	D	BP	N/A	N.D.	
	B	BP	N/A	N.D.	
	DE	HP	N/A	N.D.	
	F	b	BL	/	
	(	Cd	BL	/	
	H	Ig	BL	/	
	Cr(0	Cr <sup>6+</sup> )	BL	/	
38	Br	PBBs PBDEs	N/A	/	Conformity
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	-	HP	N/A	/	
		Ъ	BL	/	
		Cd	BL	/	
		Ig	BL	/	
		Cr <sup>6+</sup> )	BL	/	
39	Br	PBBs PBDEs	N/A	/ /	Conformity
	DI	BP	N/A	/	
	D	BP	N/A	/	
	B	BP	N/A	/	
	DE	HP	N/A	/	
	F	b	BL	/	
	(	Cd	BL	/	
	H	Ig	BL	/	
	Cr(0	Cr <sup>6+</sup> )	BL	/	
40	Br PBBs PBDEs		BL	/ /	Conformity
	DI	BP	N/A	N.D.	
		BP	N/A	N.D.	
		BP	N/A	N.D.	
		CHP	N/A	N.D.	



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	F	Ъ	IN	28047	
	Cd Hg		BL	/	
			BL	/	
		<u>Cr<sup>6+</sup>)</u>	BL	/	
41	Br	PBBs PBDEs	N/A	/	Conformity Exemption
	וח	BP	N/A	/	clause 6(c)
		BP	N/A N/A	/	
		BP	N/A N/A	/	
	-	EHP	N/A N/A	/	
		ин Ъ	IN	63	
		Cd	BL	/	
			BL	/	
		Ig Cr <sup>6+</sup> )	BL	/	
			BL	/	
42	Br	PBBs PBDEs	N/A	/	Conformity
	DIBP		N/A	/	
	DBP		N/A	/	
	B	BP	N/A	/	
	DEHP		N/A	/	
	F	Ъ	BL	/	
	(	Cd	BL	/	
	ŀ	Ig	BL	/	
	Cr(	Cr <sup>6+</sup> )	BL	/	
43	Br	PBBs PBDEs	BL	/ /	Conformity
	DI	BP	N/A	N.D.	
	D	BP	N/A	N.D.	
		BP	N/A	N.D.	
		ЕНР	N/A	N.D.	
		Ъ	BL	/	
		Cd	BL	/	
		łg	BL	/	
		Cr <sup>6+</sup> )	BL	/	
44	PBBs		- N/A	/	Conformity
	ומ	BP	N/A	/	
		BP	N/A	/	
		BP	N/A N/A	/	
		EHP	N/A N/A	/	



Test point	Test Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	Pb	BL	/	
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
45	Br PBE	BL	/	Conformity
	DIBP	N/A	N.D.	
	DBP	N/A	N.D.	
	BBP	N/A	N.D.	
	DEHP	N/A	N.D.	
	Pb	BL	/	
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
46	Br PBE PBD	BL BL	/	Conformity
	DIBP	N/A	N.D.	
	DBP	N/A	N.D.	
	BBP	N/A	N.D.	
	DEHP	N/A	N.D.	
	Pb	BL	/	
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
47	Br PBD	3s BI	/	Conformity
	DIBP	N/A	N.D.	
	DBP	N/A	N.D.	
	BBP	N/A	N.D.	
	DEHP	N/A	N.D.	
	Pb	BL	/	
	Cd	BL	/	
	Hg	BL	/	
	Cr(Cr <sup>6+</sup> )	BL	/	
48	Br PBE PBD	BL BL	/ /	Conformity
	DIBP	N/A	N.D.	
	DBP	N/A	N.D.	
	BBP	N/A	N.D.	
	DEHP	N/A	N.D.	



Test point	Test	Item	X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	F	Ъ	BL	/	
-	(	Cd	BL	/	
-	H	łg	BL	/	
-	Cr(0	Cr <sup>6+</sup> )	BL	/	
49	Br	PBBs	BL	/	Conformity
-		PBDEs		/	5
-		BP	N/A	N.D.	
-		BP	N/A	N.D.	
-		BP	N/A	N.D.	
		EHP	N/A	N.D.	
-		Ъ	IN	27784	
-	C	Cd	BL	/	
-	H	łg	BL	/	
-	Cr(0	Cr <sup>6+</sup> )	BL	/	
50	Br	PBBs	N/A	/	Conformity Exemption clause 6(c)
50	ВГ	PBDEs		/	
	DIBP		N/A	/	clause $0(c)$
-	DBP		N/A	/	
-	BBP		N/A	/	
-	DEHP		N/A	/	
	F	Ъ	BL	/	
-	(	Cd	BL	/	
-	Hg		BL	/	
-	Cr(0	Cr <sup>6+</sup> )	BL	/	
51	Br	PBBs PBDEs	- BL	/	Conformity
-	DI	BP	N/A	N.D.	
-		BP	N/A	N.D.	
-		BP	N/A	N.D.	
-		EHP	N/A	N.D.	
		ун Р	BL	/	
-		Cd	BL	/	
-		Ig	BL	/	
-		$Cr^{6+}$	BL	/	
52	Br	PBBs PBDEs	- N/A	/	Conformity
-	וח	BP	N/A	/	
-		BP	N/A N/A	/	
-			N/A N/A	/	
-	BBP DEHP		N/A N/A	/	



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	Pb		BL	/	
	C	Cd	BL	/	
	H	Ig	BL	/	
	Cr(0	Cr <sup>6+</sup> )	BL	/	
53	Br	PBBs PBDEs	BL	/ /	Conformity
	DI	BP	N/A	N.D.	
	D	BP	N/A	N.D.	
	B	BP	N/A	N.D.	
	DE	HP	N/A	N.D.	
	P	b	BL	/	
	C	Cd	BL	/	
	H	Ig	BL	/	
	-	Cr <sup>6+</sup> )	BL	/	
	`	PBBs		/	~ ^ '
54	Br	PBDEs	BL	/	Conformity
	DIBP		N/A	N.D.	
	D	BP	N/A	N.D.	
	BBP		N/A	N.D.	
	DE	HP	N/A	N.D.	
	P	Ъ	BL	/	
	0	Cd	BL	/	
	H	Ig	BL	/	
		$Cr^{6+}$	BL	/	
55	Br	PBBs PBDEs	- N/A	/	Conformity
	DI	BP	N/A	/	
		BP	N/A	/	
		BP	N/A	/	
		HP	N/A	/	
		Ъ	BL	/	
		Cd	BL	/	
		Ig	BL	/	
		Cr <sup>6+</sup> )	BL	/	
56	Br PBBs PBDEs		BL	/	Conformity
	DI	BP	N/A	N.D.	
		BP	N/A	N.D.	
		BP	N/A	N.D.	
		CHP	N/A	N.D.	



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	Р	'b	BL	/	
	C	čd	BL	/	
	H	[g	BL	/	
	Cr(0	Cr <sup>6+</sup> )	BL	/	
57	Br	PBBs PBDEs	BL	/	Conformity
	DI	BP	N/A	N.D.	
		BP	N/A	N.D.	
	B	BP	N/A	N.D.	
		HP	N/A	N.D.	
	P	'n	BL	/	
	C	<sup>2</sup> d	BL	/	
		[g	BL	/	
		Cr <sup>6+</sup> )	BL	/	
		PBBs		/	
58	58 Br	PBDEs	BL	/	Conformity
	DI	BP	N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DE	HP	N/A	N.D.	
	Р	'b	BL	/	
	Cd		BL	/	
	H	[g	BL	/	
	Cr(Cr <sup>6+</sup> )		BL	/	
59	Br	PBBs PBDEs	- N/A	/	Conformity
	DI	BP	N/A	/	
		BP	N/A	/	
		BP	N/A	/	
		HP	N/A	/	
		'b	BL	/	
		<sup>2</sup> d	BL	/	
		[g	BL	/	
·		Cr <sup>6+</sup> )	BL	/	
60	Br PBDEs		- BL	/	Conformity
	DI	BP	N/A	N.D.	
		BP	N/A	N.D.	
		BP	N/A	N.D.	
		CHP	N/A	N.D.	



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	Р	Ъ	BL	/	
	C	Cd	BL	/	
	H	Ig	BL	/	
	Cr(0	Cr <sup>6+</sup> )	BL	/	
61	Br	PBBs PBDEs	BL	/	Conformity
	DI	BP	N/A	N.D.	
	D	BP	N/A	N.D.	
	B	BP	N/A	N.D.	
	DE	EHP	N/A	N.D.	
	P	Ъ	BL	/	
	0	Cd	BL	/	
	H	Ig	BL	/	
		<u>C</u> r <sup>6+</sup> )	BL	/	
		PBBs		/	
62	62 Br	PBDEs	BL	/	Conformity
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
	P	Ъ	BL	/	
	(	Cd	BL	/	
	F	Ig	BL	/	
		<u>Cr<sup>6+</sup>)</u>	BL	/	
( <b>2</b>		PBBs	DI	N.D.	
63	Br	PBDEs	- IN	N.D.	Conformity
	DI	BP	N/A	N.D.	
	D	BP	N/A	N.D.	
		BP	N/A	N.D.	
		EHP	N/A	N.D.	
		Ъ	BL	/	
		Cd	BL	/	
		Ig	BL	/	
		<u>Cr<sup>6+</sup>)</u>	BL	/	
64	Br PBDEs		- N/A	/	Conformity
	DI	BP	N/A	/	
		BP	N/A	/	
		BP	N/A	/	
		EHP	N/A	/	



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	F	Ъ	BL	/	
-	(	Cd	BL	/	
		Ig	BL	/	
	Cr(	Cr <sup>6+</sup> )	BL	/	
65	Br	PBBs PBDEs	- BL	/	Conformity
-	DI	BP	N/A	N.D.	
-	D	BP	N/A	N.D.	
-	B	BP	N/A	N.D.	
-	DE	EHP	N/A	N.D.	
	F	Ъ	BL	/	
-	(	Cd	BL	/	
-	H	Ig	BL	/	
-		<u>Cr<sup>6+</sup>)</u>	BL	/	
	D	PBBs	DI	/	Conformity
66	66 Br	PBDEs	- BL -	/	
	DIBP		N/A	N.D.	
-	DBP		N/A	N.D.	
-	BBP		N/A	N.D.	
-	DE	ЕНР	N/A	N.D.	
	F	Ъ	BL	/	
	(	Cd	BL	/	
-	H	Ig	BL	/	
-		Cr <sup>6+</sup> )	BL	/	
67	Br	PBBs PBDEs	BL	/ /	Conformity
•	DI	BP	N/A	N.D.	
-	D	BP	N/A	N.D.	
-		BP	N/A	N.D.	
•		ЕНР	N/A	N.D.	
		Ъ	BL	/	
-		Cd	BL	/	
·		łg	BL	/	
·		<u>Cr<sup>6+</sup>)</u>	BL	/	
68	PBBs		BL	/ /	Conformity
-	DI	BP	N/A	N.D.	
-		BP	N/A	223	
·		BP	N/A	N.D.	
·		EHP	N/A	N.D.	



Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
	Pb		BL	/	
	Cd		BL	/	
	Hg		BL	/	
	Cr(Cr <sup>6+</sup> )		BL	/	
69	Br	PBBs	N/A	/	Conformity
09		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	

Element	ement Unit Non-metal		Metal	Composite Material	
Cd	mg/kg	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤50-3σ <x &lt;150+3σ≤OL</x 	
Pb	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;1500+3σ≤OL</x 	
Hg	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;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>N/A</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	N/A	BL≤250-3σ <x< td=""></x<>	

Remark:

- (1) BL= Below Limit, OL= Over limited, IN = Inconclusive, Scanning by XRF and detected by chemical method, N/A = Not applicable.
- (2) Results were obtained by XRF for primary scanning, 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 above warning value.
- (3) The XRF scanning test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.

(	, 0		1 /
	Number	Colorimetric result (Cr(VI) concentration)	Judgement
	1	$X \le 0.1 \mu g/cm^2$	Negative
	2	$0.1\mu g/cm^2 \le X \le 0.13\mu g/cm^2$	Uncertainty
	3	$X > 0.13 \mu g/cm^2$	Positive

Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.

Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI). Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI)



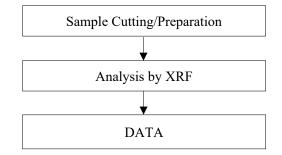
represent status of the sample at the time of testing.

(5) Disclaimers: This XRF Scanning 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 scanning 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.

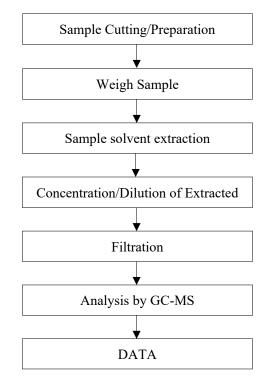
11	
Exemption clause	Exemption
6(c)	Copper alloy containing up to 4 % lead by weight

## **Test Flow Chart of XRF**



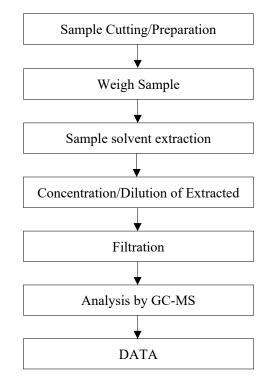


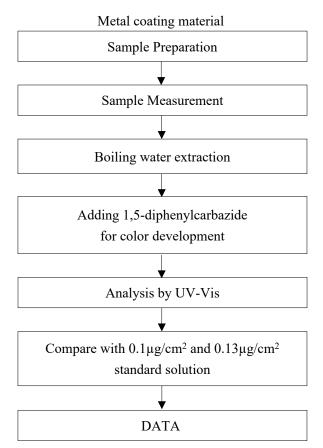
## **Test Flow Chart of Phthalates**





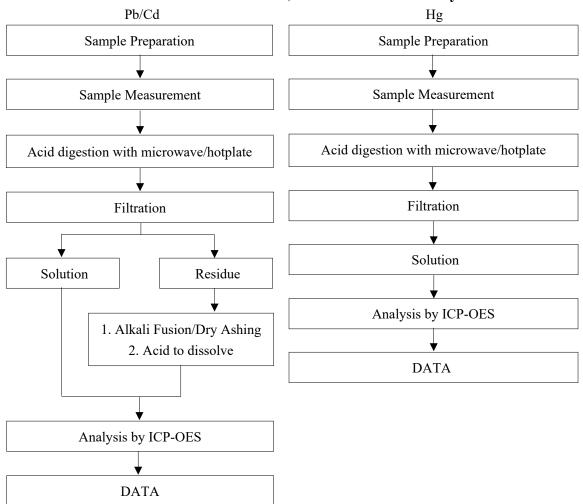
#### **Test Flow Chart of PBBs and PBDEs**





## Test Flow Chart of Hexavalent Chromium (Cr<sup>6+</sup>)





Test Flow Chart of Lead, Cadmium and Mercury

These sample were dissolved totally by pre-conditioning method according to above flow chart

\*\*\* End of Report \*\*\*



## Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

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7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.