RoHS Test Report

Report No.	:	AGC05443240501-001S2

SAMPLE NAME	:	Recycled ALU 8000mAh powerbank
MODEL NAME	:	MO2340
APPLICANT	:	MID OCEAN BRANDS B.V
STANDARD(S)	:	Please refer to the following page(s).
DATE OF ISSUE	:	May 12, 2025

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.

Applicant	:	MID OCEAN BRANDS B.V
Address	:	Unit 711-716, 7/F., Tower A, 83 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	:	Recycled ALU 8000mAh powerbank
Model	:	MO2340
Vendor code	:	114538
Country of Origin	:	CHINA
Country of Destination	:	EUROPE
Sample Received Date	:	May 06, 2024(Test point:1 to 63) Mar. 17, 2025(Test point:64) May 06, 2025(Test point:65)
Testing Period	:	May 06, 2024 to May 10, 2024(Test point:1 to 63) Mar. 17, 2025 to Mar. 18, 2025(Test point:64) May 06, 2025 to May 12, 2025(Test point:65)
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^{6+}, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Pass

Approved by:

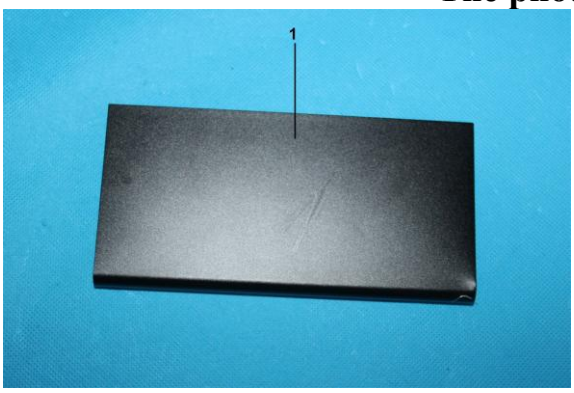
Suhongliang, Leon

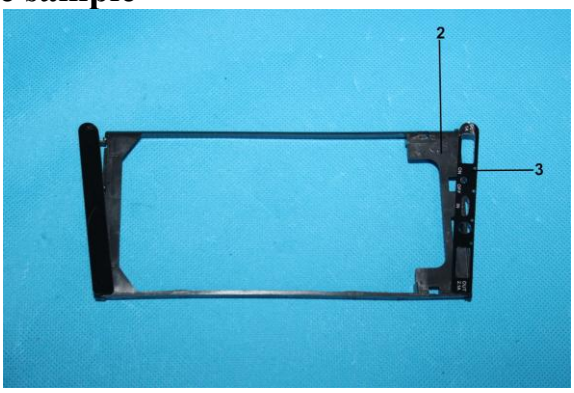
Technical Director

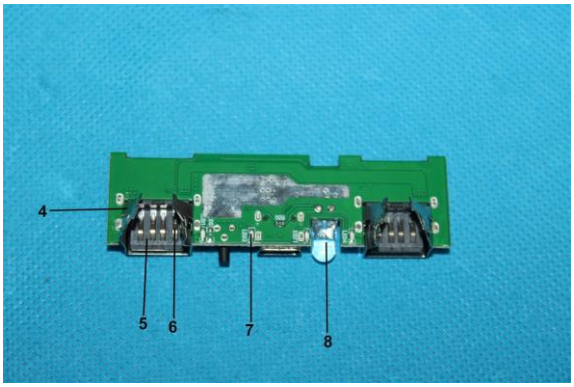
Report Revise Record

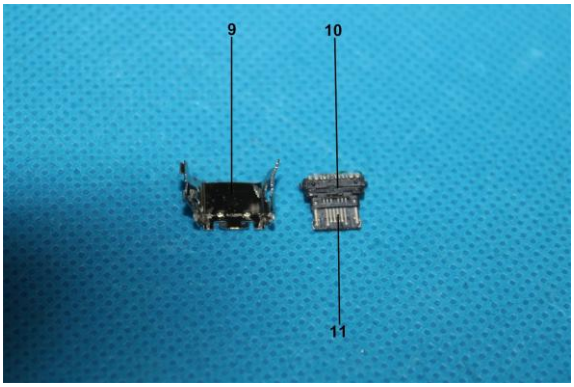
Report Version	Issued Date	Valid Version	Notes
/	May 11, 2024	Invalid	Initial release
S1	Mar. 18, 2025	Invalid	Add test
S2	May 12, 2025	Valid	Add test, Modify Address

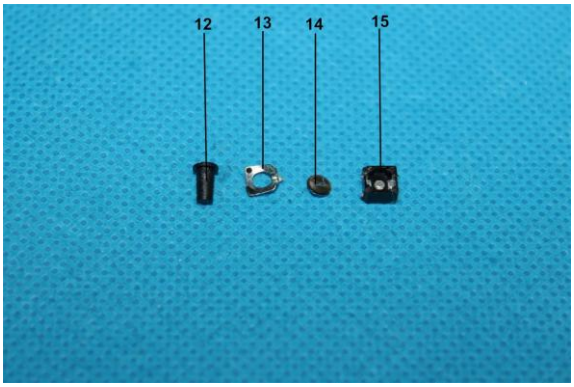
The photo of the sample

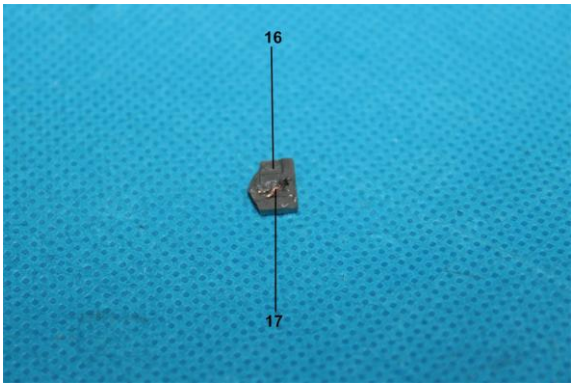


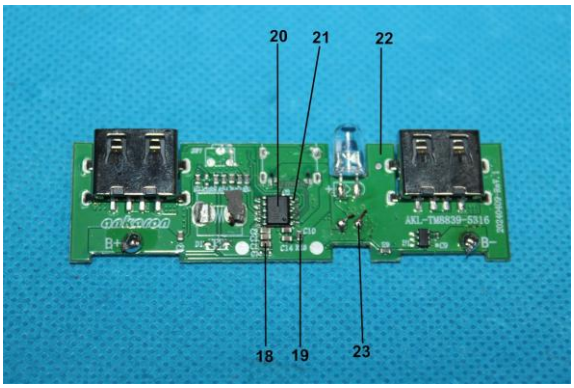


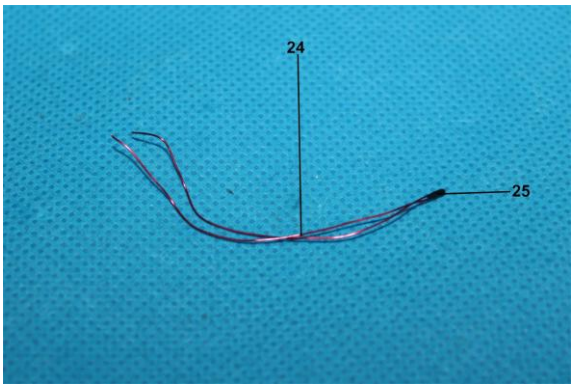


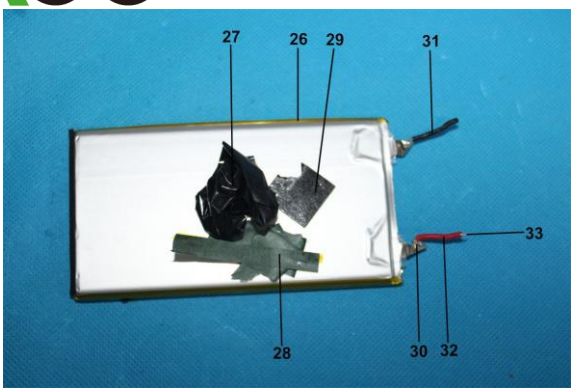


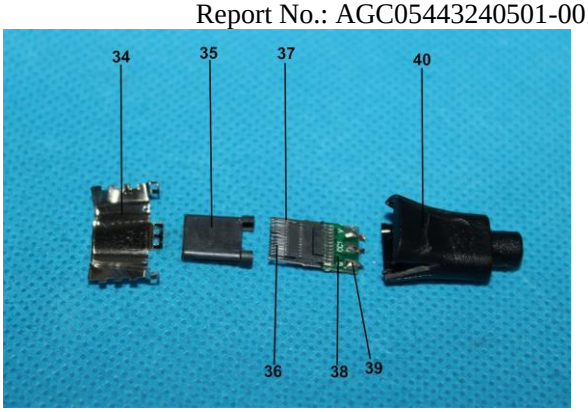


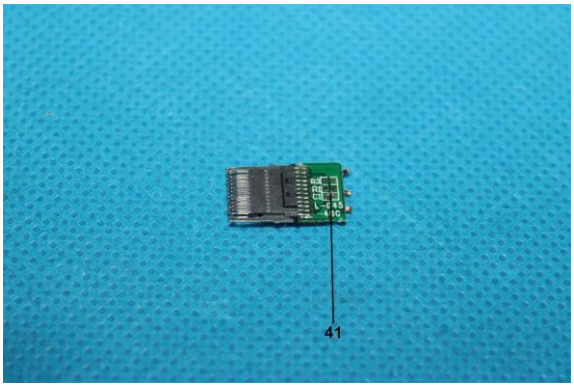


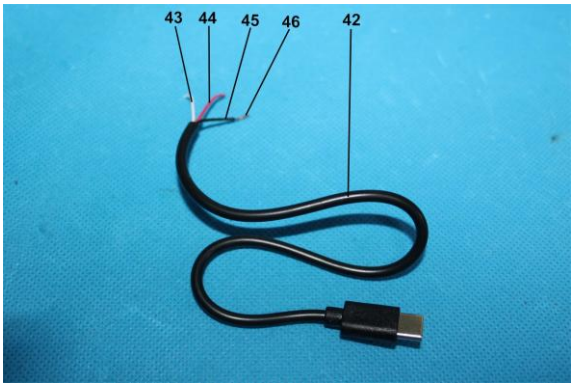


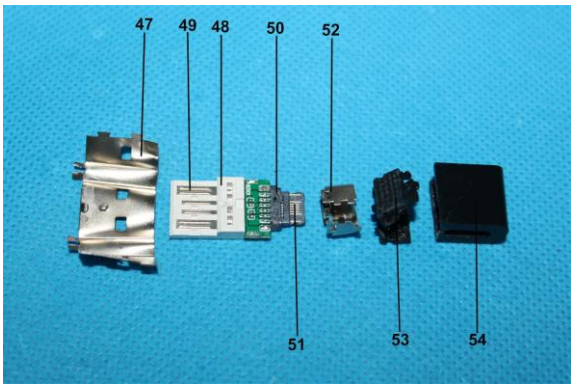


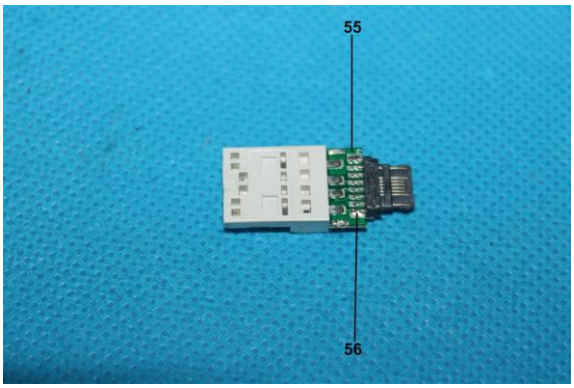


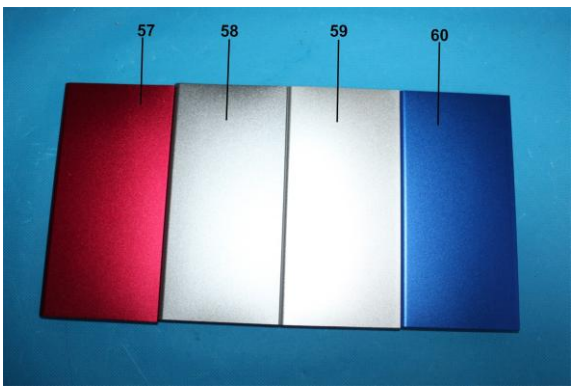


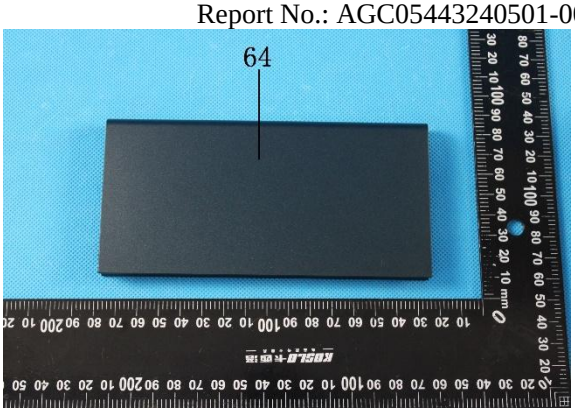


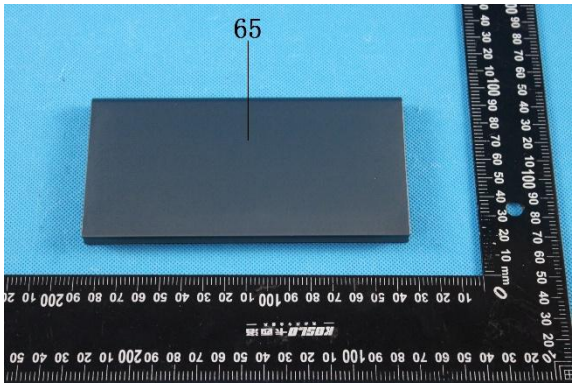


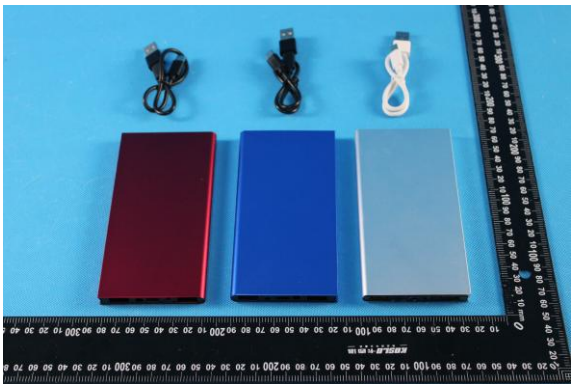


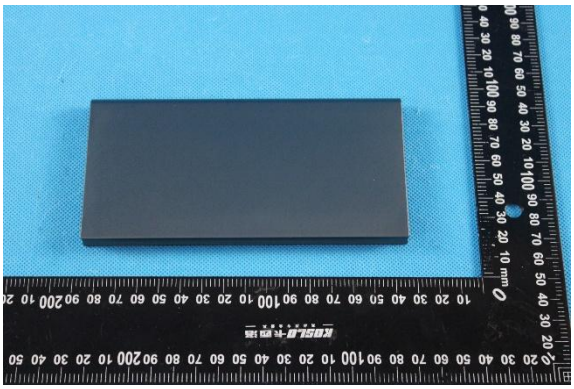


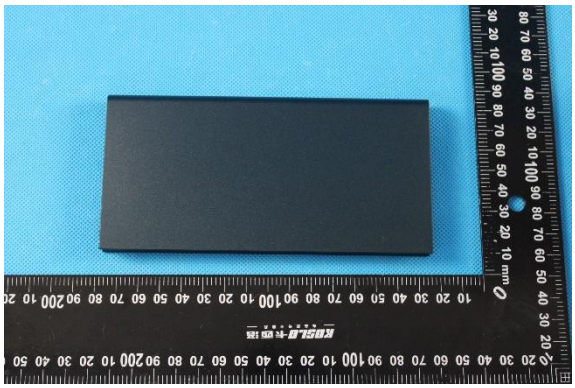












The photo of AGC05443240501-001S2 is for use only with the original report.

Test Point Description

Test point	Test module	Test parts	Test point description
1. Power Bank Model： MO2340 (Big ）			
1	---	Outer shell	Black metallic shell
2	---		Black plastic shell
3	---		Black plastic sheet
4	Circuit board	USB device	USB metal device
5			Grey plastic joint
6			Metal pin
7		---	Chip LED
8		---	Transparent LED
9		Type-C connector	Type-C metal connector
10			Grey plastic joint
11			Metal pin
12		Key	Black plastic button
13			Metallic shell
14			Metallic shrapnel
15			Black plastic base
16		Inductance	Grey magnetic frame
17			Enameled wire
18		---	Chip capacitor
19		---	Chip resistor
20		---	IC body
21		---	Metallic pin with solder
22		---	PCB
23		---	Solder
24	---	Thermistor	Black thermistor
25	---		Enameled wire
26	---	Battery	Tan tape
27	---		Black tape
28	---		Barley paper
29	---		Black foam with glue
30	---		Solder
31	---		Black wire jacket
32	---		Red wire jacket
33	---		Conductor
Type-C line			
34	---	Type-C plug	Type-C metal plug
35	---		Grey plastic plug
36	---		Metal pin
37	---		Metallic pogopin
38	---		PCB
39	---		Solder
40	---		Black handle

41	---		Chip capacitor
42	---	Wire rod	Black outer wire jacket
43	---		White wire jacket
44	---		Red wire jacket
45	---		Black wire jacket
46	---		Conductor
USB Adaptor			
47	---	---	USB metal plug
48	---	---	White plastic plug
49	---	---	Metal pin
50	---	---	Grey plastic plug
51	---	---	Metal pin
52	---	---	Type-C metal plug
53	---	---	Black inner glue
54	---	---	Black plastic handle
55	---	---	PCB
56	---	---	Solder
Difference			
57	---	---	Red metallic shell
58	---	---	Grey metallic shell
59	---	---	Silver metallic shell
60	---	---	Blue metallic shell
type-C White Difference			
61	---	Type-C plug	White handle
62	---	Wire rod	White outer wire jacket
63	---	---	White plastic handle
64	---	---	Black green metallic shell
65	---	Outer shell	Grey metallic shell

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

Test Results:

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

2011/65/EU (RoHS) and its amendment directive (EU) 2015/863

- Pb, Cd, Hg, Cr^{6+}, PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Test Item	Test Method/ Instrument	MDL	Maximum Limit
Lead (Pb)	IEC 62321-3-1:2013/ XRF	/	1000mg/kg
Cadmium (Cd)		/	100mg/kg
Mercury (Hg)		/	1000mg/kg
Total Chromium		/	/
Total Bromine		/	/
Chemistry Method			
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	2mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	2mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	2mg/kg	1000mg/kg
Non-metal: Hexavalent Chromium (Cr^{6+})	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	1000mg/kg
Metal: Hexavalent Chromium (Cr^{6+})	IEC 62321-7-1:2015/ UV-Vis	0.1μg/cm²	/
Polybrominated Biphenyls (PBBs) -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)	IEC 62321-8:2017/ GC-MS	50mg/kg	1000mg/kg
Dibutyl phthalate (DBP)		50mg/kg	1000mg/kg
Butylbenzyl phthalate (BBP)		50mg/kg	1000mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	1000mg/kg

Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
1	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
2	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
3	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
4	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	

Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
5	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
6	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
7	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
8	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
	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
9	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		IN	N.D.	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
10	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
11	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
12	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	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
13	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
14	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		IN	N.D.	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
15	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
16	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		IN	N.D.	
	Br	PBBs	BL	/	
		PBDEs		/	
	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
17	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
18	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
19	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
20	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	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
21	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
22	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
23	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
24	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	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
25	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
26	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
27	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
28	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	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
29	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
30	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
31	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
32	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	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
33	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
34	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		IN	N.D.	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
35	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
36	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	

Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
37	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		IN	N.D.	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
38	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
39	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
40	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	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
41	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
42	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
43	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
44	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	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
45	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	111	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
46	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
47	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
48	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	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
49	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
50	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
51	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
52	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		IN	N.D.	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	

Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
53	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
54	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
55	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
56	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	

Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
57	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
58	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
59	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	
60	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	

Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
61	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
62	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
63	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
	DIBP		N/A	N.D.	
	DBP		N/A	N.D.	
	BBP		N/A	N.D.	
	DEHP		N/A	N.D.	
64	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	

Test point	Test Item		X-ray Fluorescence Spectrometry (XRF) mg/kg	Wet Chemistry Method mg/kg	Conclusion
65	Pb		BL	/	Conformity
	Cd		BL	/	
	Hg		BL	/	
	$Cr(Cr^{6+})$		BL	/	
	Br	PBBs	N/A	/	
		PBDEs		/	
	DIBP		N/A	/	
	DBP		N/A	/	
	BBP		N/A	/	
	DEHP		N/A	/	

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	N/A	BL≤250-3σ<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.

(4) Boiling-water-extraction:(X represents the results of the tested sample)

Number	Colorimetric result (Cr(VI) concentration)	Judgement
1	X＜0.1μg/cm²	Negative
2	0.1μg/cm²≤X≤0.13μg/cm²	Uncertainty
3	X＞0.13μg/cm²	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.

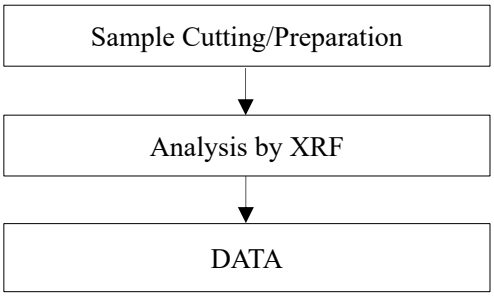
Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.

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).

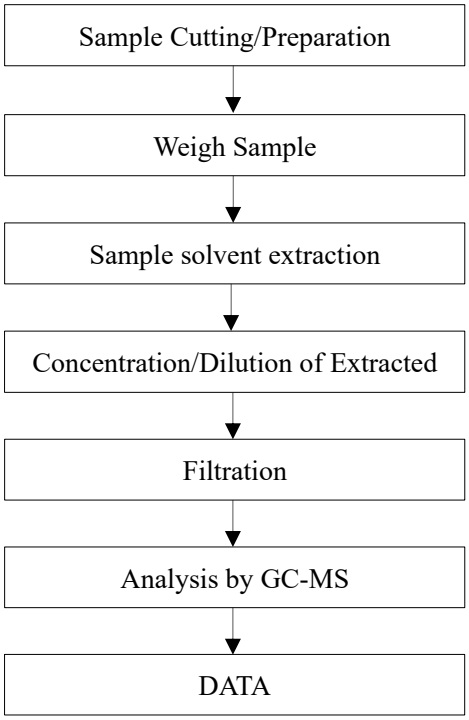
Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

(5) 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.

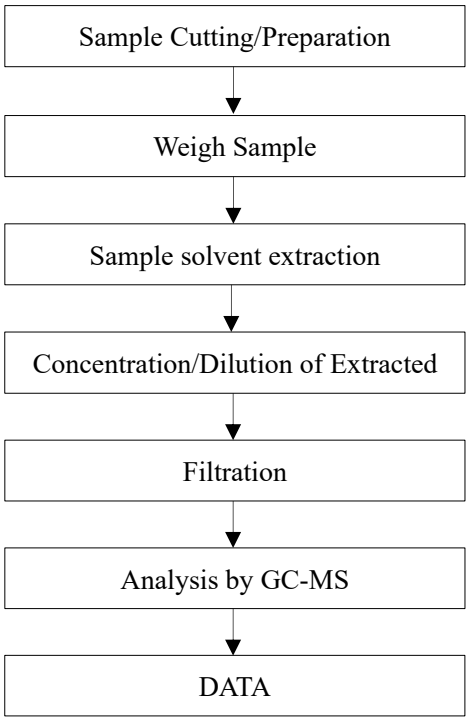
Test Flow Chart of XRF



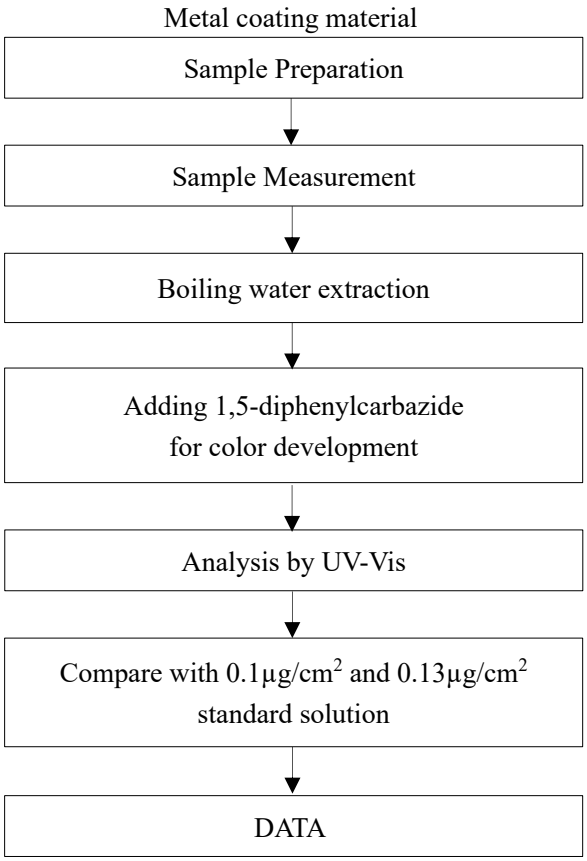
Test Flow Chart of Phthalates



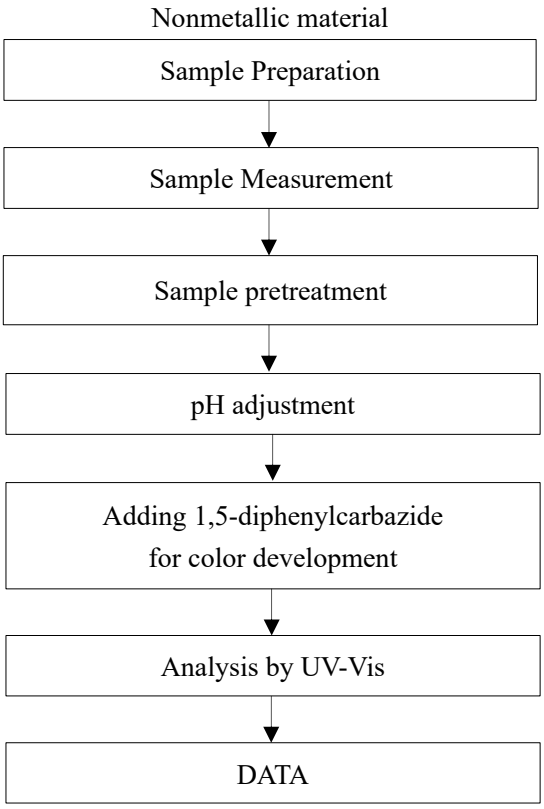
Test Flow Chart of PBBs and PBDEs



Test Flow Chart of Hexavalent Chromium (Cr^{6+})



Test Flow Chart of Hexavalent Chromium (Cr^{6+})



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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.

*** End of Report ***