

## Test Report

Report No. : RGST151221303

Date : Mar 02, 2016

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**Applicant** : CNEX AIE SL  
**Address** : C/Mendez Nunez,4908302 Mataro-Barcelona-Spain

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

**Sample(s) Name** : Massager  
**Model** : 40513, 20481, 10081, 10124, 10193, 10233, 10513, 10531,10571, 10593, 10753, 10711, 10773, 10761, 10784, 10795, 10803, 10819, 10861, 10821 , 10873 10883, 10891, 10913, 10923, 10933, 10949, 10960, 20293, 20309, 20431, 20433, 20353, 20363, 30129, 30143, 30193, 30198, 30225, 30245, 30259, 30393, 33421, 33483, 33499, 30585, 30594, 30259, 30611, 30625, 30649, 33413, 33479, 30639, 30659, 30604, 33421, 33483, 33499, 30585, 30594, 30611, 30625, 40483, 40493, 40509, 40513, 40523, 40539, 30036, 20481, 33432, 30529, 10981, 10951, 10971, 10993,11003,11013,11029,11033,11043,11053,11063,40623,40639

**Sample(s) received date** : Dec 21, 2015  
**Testing period** : From Dec 21, 2015 to Dec 28, 2015

**Test Request**

(1) As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr<sup>6+</sup>), Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs) content in the submitted sample(s) in accordance with Directive 2011/65/EU (RoHS).

**Conclusion**

Pass

\*\*\*\*\*

Prepared by: Elena  
Elena Liu  
Report Producer

Checked by: Leif  
Leif Li  
Technical Supervisor



Approved by: M  
Fanjun Li  
Technical Manager

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**Specimen Description:**

No.	Test part(s) name
1	Pink silicon gel (body)
2	Pink plastic (body)
3	Transparent rubble coating(handle)
4	Golden coating (body)
5	White foam (inner body)
6	Deep pink silicon gel (inner body)
7	Translucent silicon gel (washer inner body)
8	Clear plastic(inner body)
9	Beige glue (inner body)
10	Red wire jacket (inner body)
11	Black wire jacket (inner body)
12	Silvery metal screw inner body
13	Silvery metal sheet of battery
14	Silvery metal spring of battery
15	Silvery metal wire (wire core)
16	Silvery solder point
17	Silvery metal shell of motor inner body
18	Matt silvery metal rotator
19	Silvery metal washer of motor
20	Silvery metal axle of motor
21	Black magnet inner motor
22	Matt golden metal coil of motor
23	Matt golden metal fixed of motor
24	Silvery metal contact pin of motor
25	Br silvery metal small sheet inner body
26	Black ceramic (inner motor)
27	White plastic (washer of motor)
28	Matt white plastic (inner motor)

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No.	Test part(s) name
29	Matt beige plastic (inner motor)
30	Brown paper (inner motor)
31	Black plastic (motor)
32	Deep black plastic (shell)
33	Black silicon gel (body)
34	Matt black silicon gel (button of shell)
35	Translucent rubber coating/black/grey coating (control)
36	Clear laminated black printed white paper(inner shell)
37	Beige adhesive tape (inner shell)
38	Beige plastic (inner shell)
39	Br silvery metal spring of motor
40	Br silvery metal contact pin of motor
41	Golden metal contact pin of motor
42	Grey paper (inner motor)
43	Blue plastic (washer of motor)
44	Deep blue plastic (washer of motor)
45	Golden metal rotator of motor
46	Coppery metal rotator of motor
47	Purple plastic (control)
48	Dark black plastic (button on PCB)
49	Silvery metal frame of button on PCB
50	Br silvery metal sheet of button on PCB
51	Silvery metal contact pin of button on PCB
52	Br clear plastic (LED on PCB)
53	Br silvery metal pin of LED on PCB
54	Matt white plastic (button on PCB)
55	Silvery metal (contact pin of button on PCB)
56	Silvery metal sheet of battery on PCB

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No.	Test part(s) name
57	Deep golden metal wire (inductance on PCB)
58	Black ceramic (inductance on PCB)
59	SMD IC
60	SMD big capacitance
61	SMD small capacitance
62	SMD resistance
63	SMD audion
64	SMD diode
65	SMD inductance
66	SMD crystal
67	Green/white printed brown PCB with metal
68	SMD glass diode

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**Results:**

**1. RoHS Directive 2011/65/EU and its amendment directives Screening by X-ray fluorescence spectrometry**

Test item(s)	Test Method	Test Instrument
Lead, mercury, cadmium, chromium and bromine	IEC 62321-3-1:2013	X-ray fluorescence spectrometry

Seq. No.	Tested Part(s)	Result(s)				
		Pb	Cd	Cr	Hg	Br
1	Pink silicon gel (body)	BL	BL	BL	BL	BL
2	Pink plastic (body)	BL	BL	BL	BL	BL
3	Transparent rubble coating(handle)	BL	BL	BL	BL	BL
4	Golden coating (body)	BL	BL	BL	BL	BL
5	White foam (inner body)	BL	BL	BL	BL	BL
6	Deep pink silicon gel (inner body)	BL	BL	BL	BL	BL
7	Translucent silicon gel (washer inner body)	BL	BL	BL	BL	BL
8	Clear plastic(inner body)	BL	BL	BL	BL	BL
9	Beige glue (inner body)	BL	BL	BL	BL	BL
10	Red wire jacket (inner body)	BL	BL	BL	BL	BL
11	Black wire jacket (inner body)	BL	BL	BL	BL	BL
12	Silvery metal screw inner body	BL	BL	BL	BL	NA
13	Silvery metal sheet of battery	BL	BL	BL	BL	NA
14	Silvery metal spring of battery	BL	BL	BL	BL	NA
15	Silvery metal wire (wire core)	BL	BL	BL	BL	NA
16	Silvery solder point	X	BL	BL	BL	NA
17	Silvery metal shell of motor inner body	BL	BL	BL	BL	NA
18	Matt silvery metal rotator	BL	BL	X	BL	NA
19	Silvery metal washer of motor	BL	BL	X	BL	NA
20	Silvery metal axle of motor	BL	BL	X	BL	NA
21	Black magnet inner motor	BL	BL	BL	BL	NA
22	Matt golden metal coil of motor	BL	BL	BL	BL	NA

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Seq. No.	Tested Part(s)	Result(s)				
		Pb	Cd	Cr	Hg	Br
23	Matt golden metal fixed of motor	BL	BL	BL	BL	NA
24	Silvery metal contact pin of motor	BL	BL	BL	BL	NA
25	Br silvery metal small sheet inner body	BL	BL	BL	BL	NA
26	Black ceramic (inner motor)	BL	BL	BL	BL	BL
27	White plastic (washer of motor)	BL	BL	BL	BL	BL
28	Matt white plastic (inner motor)	BL	BL	BL	BL	BL
29	Matt beige plastic (inner motor)	BL	BL	BL	BL	BL
30	Brown paper (inner motor)	BL	BL	BL	BL	BL
31	Black plastic (motor)	BL	BL	BL	BL	BL
32	Deep black plastic (shell)	BL	BL	BL	BL	BL
33	Black silicon gel (body)	BL	BL	BL	BL	BL
34	Matt black silicon gel (button of shell)	BL	BL	BL	BL	BL
35	Translucent rubber coating/black/grey coating (control)	BL	BL	BL	BL	BL
36	Clear laminated black printed white paper(inner shell)	BL	BL	BL	BL	BL
37	Beige adhesive tape (inner shell)	BL	BL	BL	BL	BL
38	Beige plastic (inner shell)	BL	BL	BL	BL	BL
39	Br silvery metal spring of motor	BL	BL	BL	BL	NA
40	Br silvery metal contact pin of motor	BL	BL	BL	BL	NA
41	Golden metal contact pin of motor	BL	BL	BL	BL	NA
42	Grey paper (inner motor)	BL	BL	BL	BL	BL
43	Blue plastic (washer of motor)	BL	BL	BL	BL	BL
44	Deep blue plastic (washer of motor)	BL	BL	BL	BL	BL
45	Golden metal rotator of motor	X	BL	BL	BL	BL
46	Coppery metal rotator of motor	BL	BL	BL	BL	BL
47	Purple plastic (control)	BL	BL	BL	BL	BL
48	Dark black plastic (button on PCB)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Result(s)				
		Pb	Cd	Cr	Hg	Br
49	Silvery metal frame of button on PCB	BL	BL	BL	BL	BL
50	Br silvery metal sheet of button on PCB	BL	BL	X	BL	NA
51	Silvery metal contact pin of button on PCB	X	BL	BL	BL	NA
52	Br clear plastic (LED on PCB)	BL	BL	BL	BL	X
53	Br silvery metal pin of LED on PCB	BL	BL	BL	BL	NA
54	Matt white plastic (button on PCB)	BL	BL	BL	BL	BL
55	Silvery metal (contact pin of button on PCB)	BL	BL	X	BL	NA
56	Silvery metal sheet of battery on PCB	BL	BL	BL	BL	NA
57	Deep golden metal wire (inductance on PCB)	BL	BL	BL	BL	NA
58	Black ceramic (inductance on PCB)	BL	BL	BL	BL	BL
59	SMD IC	X	BL	BL	BL	BL
60	SMD big capacitance	X	BL	BL	BL	BL
61	SMD small capacitance	X	BL	BL	BL	BL
62	SMD resistance	X	BL	X	BL	X
63	SMD audion	X	BL	BL	BL	BL
64	SMD diode	X	BL	BL	BL	X
65	SMD inductance	BL	BL	BL	BL	X
66	SMD crystal	BL	BL	X	BL	BL
67	Green/white printed brown PCB with metal	BL	BL	BL	BL	BL
68	SMD glass diode	X	BL	BL	BL	BL

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- (1) Results 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 IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$LOD < X < 150 + 3\sigma \leq OL$
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
- X = Inconclusive
- NA=Not Applicable

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

- (3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment.

RoHS 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
Polybrominate ddiphenylethers (PBDEs)	1000

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**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(s) 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.

**The Test Results of Chemical Method****Lead content**

Test Method: IEC 62321-5:2013

Test Instrument: Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test item(s)	Unit	MDL	RoHS Limit	Result(s)				
				16	45*	51**	59	60***
Lead(Pb)	mg/kg	10	1000	223	18032	1746	295	5216

Test item(s)	Unit	MDL	RoHS Limit	Result(s)				
				61***	62***	63***	64***	68***
Lead(Pb)	mg/kg	10	1000	19597	51993	7574	21718	38015

\*=As claimed by the material declaration submitted by the client, the material of the sample No.45 is copper alloy. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight

\*\*= As claimed by the material declaration submitted by the client, the material of the sample No.51 is aluminum alloy. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 0.4% (4000ppm) by weight

\*\*\*=As claimed by the material declaration submitted by the client, the No 60-64&68 material of the sample(s) is ceramic and glass. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted in 7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (piezoelectronic devices) or in a glass or ceramic matrix compound.

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## Hexavalent Chromium content

Test Method: IEC 62321 Edition 1.0:2008 and IEC 62321-7-1: 2015

Test Instrument: Ultraviolet and visible spectrophotometer(UV-vis)

Test item(s)	Unit	MDL	RoHS Limit	Result(s)	
				62	66
Chromium (VI) Content	mg/kg	10	1000	N.D.	N.D.

Test item(s)	Unit	MDL	RoHS Limit	Result(s)		
				18	19	20
Chromium (VI) Content	$\mu\text{g}/\text{cm}^2$	0.10	See Remark	Negative	Negative	Negative

Test item(s)	Unit	MDL	RoHS Limit	Result(s)	
				50	55
Chromium (VI) Content	$\mu\text{g}/\text{cm}^2$	0.10	See Remark	Negative	Negative

### Remark:

Colorimetric result(s) ( $\mu\text{g}/\text{cm}^2$ )	Qualitative result(s)
< 0.10	Negative
0.10 – 0.13	Inconclusive
> 0.13	Positive

- Negative = Absence of CrVI coating
- Positive indicates the presence of Cr (VI) on the tested areas and result be regarded as not comply with RoHS requirement.
- Negative indicates the absence of Cr (VI) on the tested areas and result be regarded as comply with RoHS requirement.

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**PBBs&PBDEs content**

Test Method: IEC 62321-6: 2015

Test Instrument: Gas Chromatography-Mass Spectrometer(GC-MS)

Test item(s)	Unit	MDL	Limit	Result(s)			
				52	62	64	65
Monobromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	/	1000	N.D.	N.D.	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs	mg/kg	/	1000	N.D.	N.D.	N.D.	N.D.

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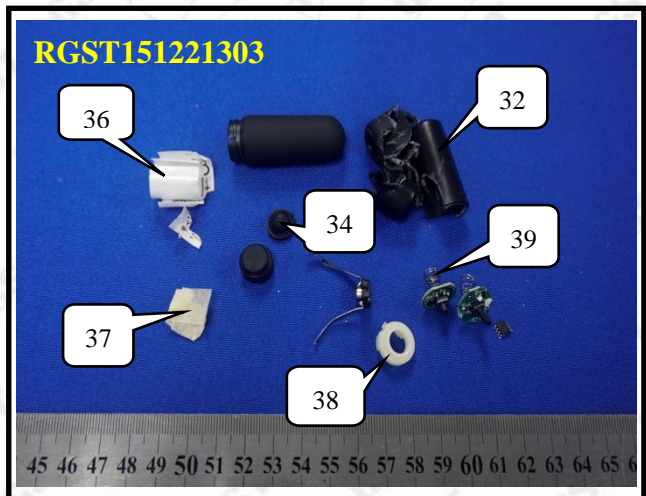
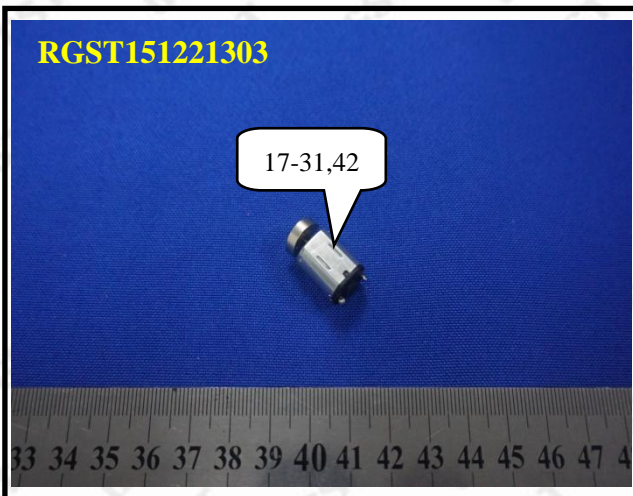
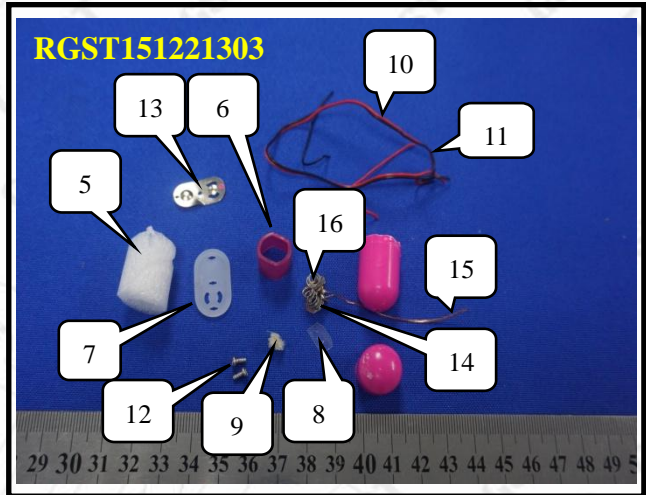
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### Photo(s) of specimen for reference



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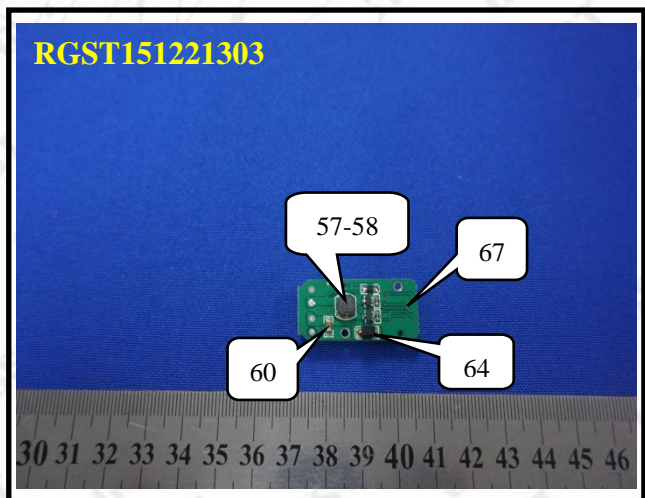
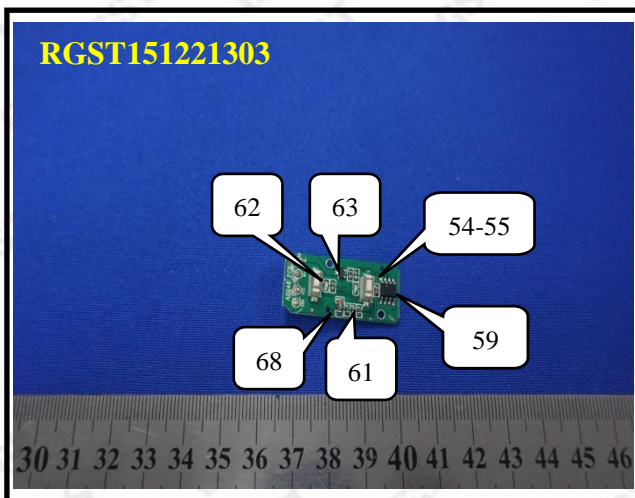
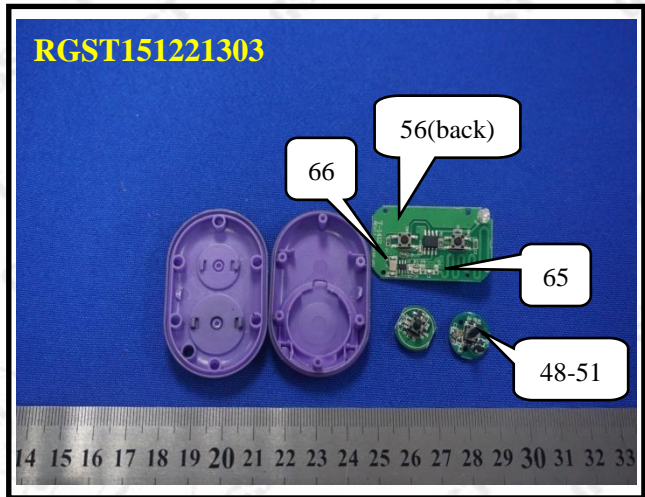
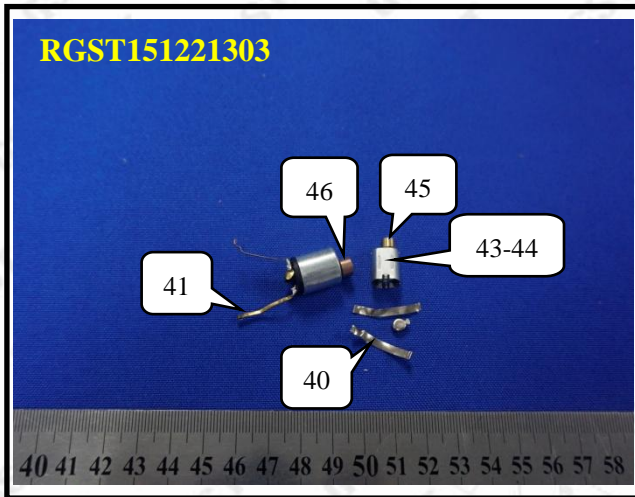
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GST authenticate the photo on original report only

### Note:

- mg/kg=milligram per kilogram
- N.D. =Not Detected (<MDL)
- MDL=Method Detection Limit

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# Test Report

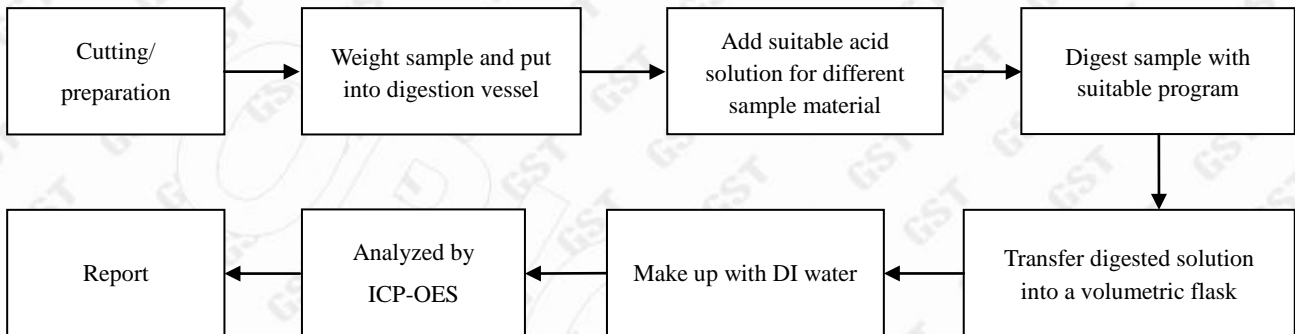
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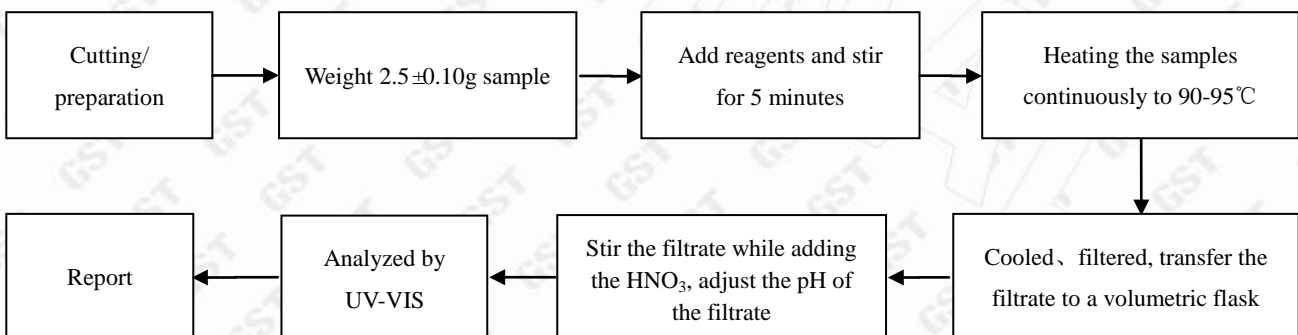
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## Appendix

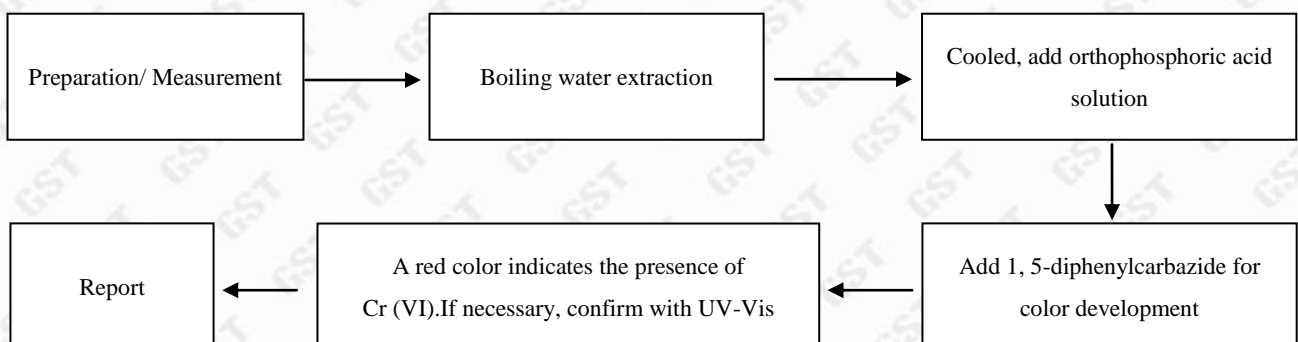
### 1. Test flowchart for Pb content:



### 2. Test flowchart for Cr<sup>6+</sup> content in non-metallic material:



### 3. Test flowchart for Cr<sup>6+</sup> content in metallic material:



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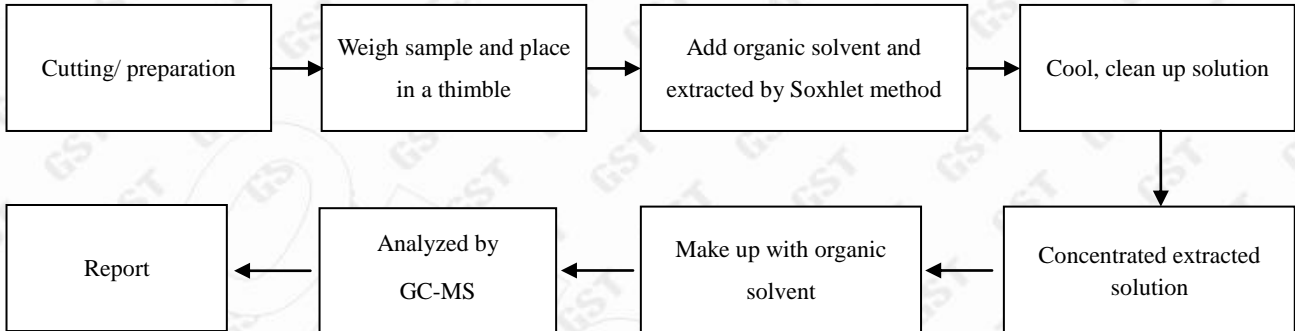
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#### 4. Test flowchart for PBBs & PBDEs content:



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