

# **RoHS Test Report**

Report No. : AGC08009201202-001

**SAMPLE NAME**: BLUETOOTH SPEAKER

**MODEL NAME** : MO9155,MO9609

**APPLICANT** : Mid Ocean Brands B.V.

**STANDARD(S)** : Please refer to follow page(s).

**DATE OF** 

: Jan.13, 2021

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





**Test Site** 

Report No.: AGC08009201202-001

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Applicant : Mid Ocean Brands B.V.

Address : 7/F.,King Tower,111King Lam Street,Cheung ShaWan,Kowloon,HongKong

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 : BLUETOOTH SPEAKER

Model : MO9155,MO9609 Manufacturer : Mid Ocean Brands B.V.

Address : 7/F.,King Tower,111King Lam Street,Cheung ShaWan,Kowloon,HongKong

Sample Received Date : Dec.14, 2020

Testing Period : Dec.14, 2020 to Jan.13, 2021

Test Requested: Conclusion

1. As specified by client, to determine the Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 on XRF and Chemical Method.

Pass

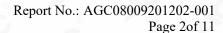
2. As specified by client, to determine Lead(Pb), Cadmium(Cd), Mercury(Hg) content in the submitted sample in accordance with European Directive 2006/66/EC and its amendments 2013/56/EU on batteries and accumulators.

Pass

Approved by: Jessie lines

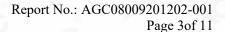
Liangdan, Jessie.Liang

**Technical Director** 





No.	Sample Description						
Name 1	BLUETOOTH SPEAKER Mo	del MO9155	C . P				
1.	· - 6	Black metal net	6				
2.	- C	Black metal shell	Black metal shell				
3.	C1 11	Black plastic inner shell					
4.	Shell	Black plastic circle					
5.	·	Black rubber mats					
6.	10° -0	Transparent plastic shell	NO - C				
7.	Silver screw	2.0	100				
8.		T iron					
9.		Black magnet	<b>⊗ V</b>				
10.		Metal frame	- 6				
11.	Horn	Tin solder	N 40 - 1				
12.		Blue wire jacket					
13.		White wire jacket					
14.	· · · · · · · · · · · · · · · · · · ·	Black vibrating film					
15.	-6	Microphone					
16.		IC body					
17.		Tin plating					
18.		Chip triode					
19.		Chip LED					
20.		· · · · · · · · · · · · · · · · · · ·	Grey plastic switch				
21.		6 G	Metal shell				
22.	·	switch	Metal shrapnel				
23.	7.0		White plastic seat				
24.	Circuit board	· · ·	Milky plastic switch				
25.		Toggle switch	Metal shell				
26.		88	White plastic seat				
27.			Micro metal connector				
28.		Micro joint	Grey plastic joint				
29.		8	Metal cover				
30.		Memory card	White plastic seat				
31.	(6)	PCB board	8				
32.		Tin solder					
33.	70	Electric core	-C				
34.		IC body	P. 40				
35.		Tin plating	0				
36.		Brown tape					
37.	Battery	Black foam adhesive	-0				
38.		PCB board					
39.		Tin solder					
40.		Red wire jacket					
41.	C. 0	Black wire jacket					
USB li	ne	· · ·	- C				
42.		USB metal plug					
43.	HGD 1		Contact pin				
44.	USB plug		White plastic plug				
45.		Black handle					





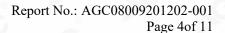
46.		Tin solder		
47.		Micro metal plug		
48.	Micro plug	Grey plastic plug		
49.	®	Tin solder	<u> </u>	
50.		Black outer wire jacket		
51.	Wire rod	Black wire jacket		
52.		Red wire jacket		
Differe	ence		®	
53.	Wooden shell		C	©
Silver	difference		2	
54.	White metal mesh			
55.	Silver metal shell		®	
56.	White inner plastic shell		(6)	
57.	White plastic circle		C	
58.	White rubber pad			
Blue d	ifference			
59.	Silver metal mesh		®	
60.	Blue metal shell		-6	8
White	USB line difference			<b>2.</b> C
61.	White handle			
62.	White outer wire jacket		®	

### **Test Result:**

### (Test Method/ Instrument/ MDL and Limit: See Appendix)

#### 1. Test Result of RoHS

N		Test result (mg/kg)						Complusion			
No.	Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	Conclusion
1	N.D.	N.D.	N.D.	363	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
2	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
3	N.D.	N.D.	N.D.	N.D.	272	272	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
7	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
8	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
9	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
10	N.D.	N.D.	N.D.	412	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
11	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
13	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
17	N.D.	N.D.	N.D.	215	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
18	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
19	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
20	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity





	Test result (mg/kg)									0	
No.	Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	Conclusion
21	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
22	N.D.	N.D.	N.D.	N.D.*	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
23	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
24 ®	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
2.5	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
26	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
27	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
28	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
29	N.D.	N.D.	N.D.	N.D.*	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
31	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
32	N.D.	N.D.	N.D.	394	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
34	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
35	N.D.	N.D.	N.D.	207	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
36	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
37	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
88	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
39	N.D.	N.D.	N.D.	244	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
11	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
12	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
13	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
16	N.D.	N.D.	N.D.	220	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
17	N.D.	N.D.	N.D.	N.D.*	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
18	N.D.	N.D.	N.D.	N.D.	222	222	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
19	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
51	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
52	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
53	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
54	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
55	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
56	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
57	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
59	N.D.	N.D.	N.D.	307	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
50	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
51	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
52	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity

## Note:

mg/kg = milligram per kilogram  $\mu g/cm^2 = microgram per square centimeter$ 

MDL = Method Detection Limit N.D.=Not Detected (less than method detection limit)

N/A= Not applicable



#### Remark:

- \*denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, nonuniformity composition, surface flatness.
- 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.

- Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
	The sample solution is <the 0,10="" cm<sup="" μg="">2 equivalent comparison standard solution</the>	The sample is negative for Cr(VI) –The Cr(VI)concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
2	The sample solution is $\geq$ the 0,10 µg/cm <sup>2</sup> and $\leq$ the 0,13 µg/cm <sup>2</sup> equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
3	The sample solution is > the 0,13 µg/cm <sup>2</sup> equivalent comparison standard solution	The sample is positive for Cr(VI) – The Cr(VI)concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

- 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.

#### 2. Test Result of Lead(Pb), Cadmium(Cd), Mercury(Hg)(European Directive 2006/66/EC)

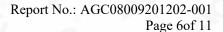
NI.		, gO	Test result (%)		Conclusion
No.	@	Lead(Pb)	Cadmium(Cd)	Mercury(Hg)	Conclusion
33	G	N.D.	N.D.	N.D.	Conformity

Note:

%= percentage N.D.=Not Detected (less than method detection limit)

MDL = Method Detection Limit

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pestud/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.





Appendix:

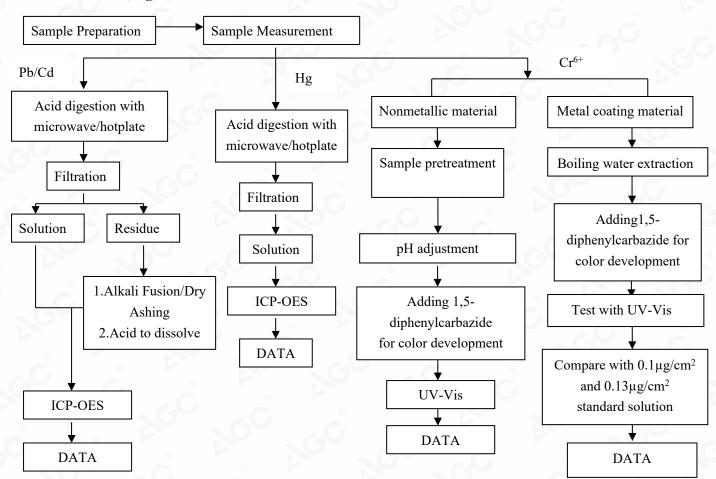
Test Item	Test Method/ Instrument	MDL	Maximum Limit
X-ray Fluorescence Spectrometry(XRF		8	
Lead (Pb)	· ·	200mg/kg	1000mg/kg
Cadmium (Cd)	-0	50mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-3-1:2013 / XRF	200mg/kg	1000mg/kg
Total Chromium		200mg/kg	/
Total Bromine	8	200mg/kg	
Wet Chemistry Method			
Lead (Pb)	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> )	IEC 62321-7-1:2015/ UV-Vis	0.1μg/cm <sup>2</sup>	1
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)		50mg/kg	1000mg/kg
Dibutyl phthalate (DBP)	HEG (2221 9 2017/ CG ) (5	50mg/kg	1000mg/kg
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	1000mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)	20	50mg/kg	1000mg/kg
Lead(Pb), Cadmium(Cd), Mercury(Hg	(European Directive 2006/66/EC)	- 3:8	· · · · · · · · · · · · · · · · · · ·
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	0.0005%	1
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	0.0005%	0.002%
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	0.0003%	0.00276
	ICI -OLO		





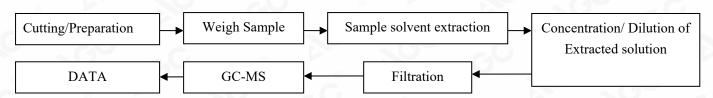
#### **Test Flow Chart**

#### 1.For Pb, Cd, Hg, Cr6+



These sample were dissolved totally by pre-conditioning method according to above flow chart (Cr<sup>6+</sup> test method excluded)

#### 2.For PBBs, PBDEs, DBP, BBP, DEHP, DIBP

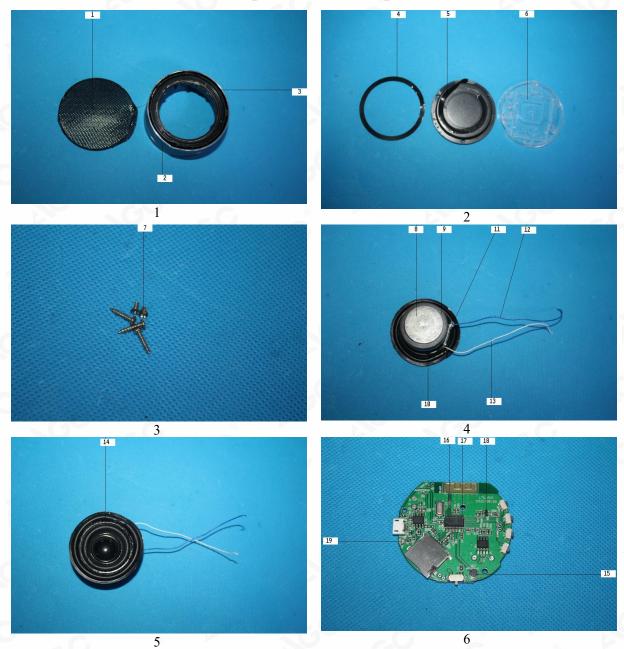


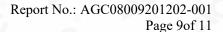
Test result on specimen No.50 to No.52 were resubmitted sample on Jan.11, 2021.



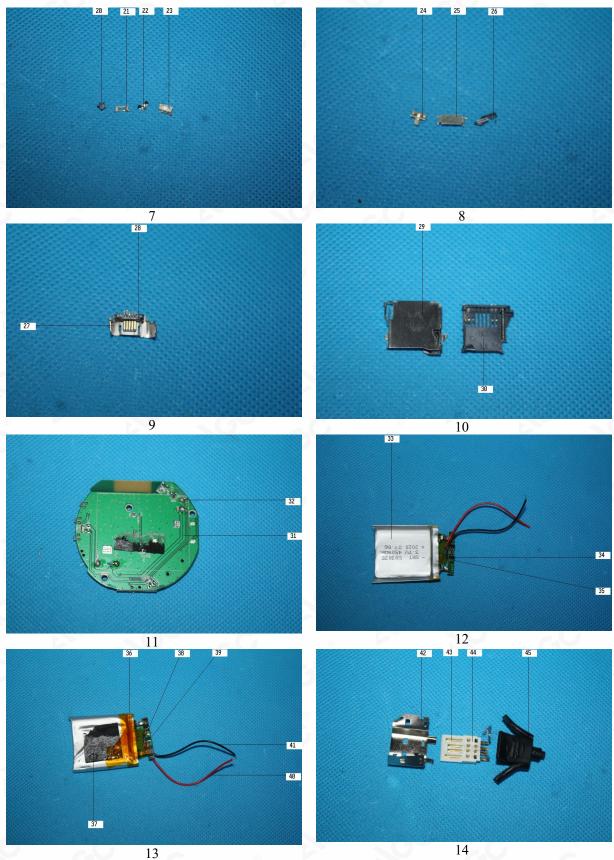


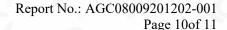
# The photo of the sample



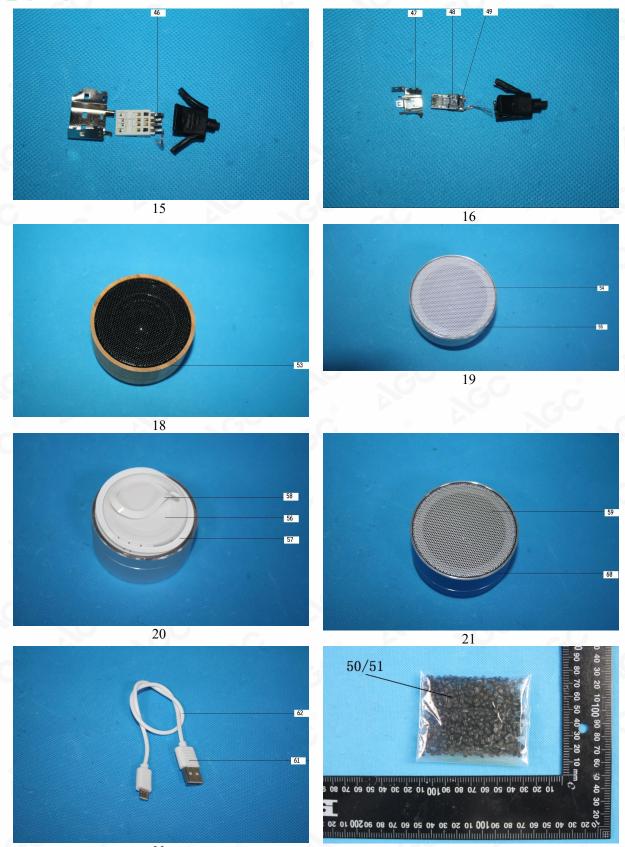


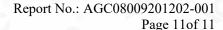




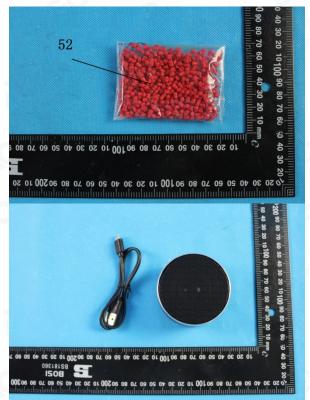














AGC08009201202-001

AGC authenticate the photo only on original report

\*\*\* 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. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
- 5. 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.
- 6. 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.
- 7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 8. 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.
- 9. 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.
- 10. 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.