

TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 1 of 21

SUZHOU ARMOCON TECHNOLOGY CO., LTD
3-5/F No 77 SuHong Middle Road SIP Jiangsu China 215027

This report is to supersede test report No. R2SH170914F0418E Date: September 28, 2017.
此报告取代 2017 年 9 月 28 号发出的报告 R2SH170914F0418E.

Report on the submitted samples said to be:

Sample Name : Handhold massager
Tested Style/ Item No.^① : Sona
Additional Style/ Item No.^② : Sona cruise
Sample Receiving Date : September 14, 2017
Testing Period : From September 14, 2017 to September 28, 2017
Results : Please refer to next page(s).
Remark : ①The tested Style/ Item No. is tested by the lab. ②The Additional Styles/ Items No. declared in the applicant's declaration are not tested, their materials are the same as the tested parts and the result of the test report is only responsible for the test sample.

Summary of Test Results:

TEST REQUEST

CONCLUSION

A	RoHS Directive 2011/65/EU and its amendment directives –XRF screening test and Wet Chemical Testing (Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content)	Pass
	Phthalates(DBP、BBP、DEHP、DIBP)content	Pass

Signed for and on behalf of
BACL

Checked by: Jane Xu
Jane Xu
Technical Supervisor

Approved by: William Wei
William Wei
Laboratory Manager

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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 2 of 21

Results:

A. RoHS Directive 2011/65/EU and its amendment directives

XRF screening test

Test method: With reference to IEC62321-3-1:2013 screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Pink silicone(sleeve, massager) ①	BL	BL	BL	BL	BL
2	Black silicone(sleeve, massager)	BL	BL	BL	BL	BL
3	Red silicone(sleeve, massager) ②	BL	BL	BL	BL	BL
4	White plastic(shell, massager) ①②	BL	BL	BL	BL	BL
5	White plastic with golden coating(sticker, massager) ①②	BL	BL	BL	BL	BL
6	White soft plastic(cover, switch"S1", massager) ①②	BL	BL	BL	BL	BL
7	Translucent glue(cover, PCB, massager) ①②	BL	BL	BL	BL	BL
8	Black soft plastic with white printing(sleeve, wire, sensor) ①②	BL	BL	BL	BL	BL
9	Red soft plastic with black printing(wire jacket, sensor) ①②	BL	BL	BL	BL	BL
10	Black soft plastic with white printing(wire jacket, sensor) ①②	BL	BL	BL	BL	BL
11	Green soft plastic with black printing(wire jacket, sensor) ①②	BL	BL	BL	BL	BL
12	Black body(sensor, massager) ①②	BL	BL	BL	BL	BL
13	Black plastic(base, switch"S1", PCB) ①②	BL	BL	BL	BL	BL
14	Dull red plastic(button, switch"S1", PCB) ①②	BL	BL	BL	BL	BL
15	Black soft plastic with white printing(wire jacket, socket, massager) ①②	BL	BL	BL	BL	BL
16	Red soft plastic with black printing(wire jacket, socket, massager) ①②	BL	BL	BL	BL	BL
17*	Lt chocolate plastic(pin holder, socket, massager) ①②	BL	BL	BL	BL	IN
18	Black soft plastic(pin holder, socket, massager) ①②	BL	BL	BL	BL	BL
19	Black body(diode"D4", PCB, massager) ①②	BL	BL	BL	BL	BL

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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 3 of 21

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
20	Black body(IC"U1", PCB, massager) ①②	BL	BL	BL	BL	BL
21	Brown body(capacitor"C3", PCB, massager) ①②	BL	BL	BL	BL	BL
22	Black body(resistor"R1", PCB, massager) ①②	BL	BL	BL	BL	BL
23	Yellow body(LED"D1", PCB, massager) ①②	BL	BL	BL	BL	BL
24*	Green PCB(massager) ①②	BL	BL	BL	BL	IN
25	Black glue(cover, coil, motor) ①②	BL	BL	BL	BL	BL
26	Black adhesive plastic(sticker, shell, motor) ①②	BL	BL	BL	BL	BL
27	Red soft plastic with black printing(wire jacket, motor) ①②	BL	BL	BL	BL	BL
28	Black soft plastic with white printing(wire jacket, motor) ①②	BL	BL	BL	BL	BL
29	Off white plastic(end bell, motor) ①②	BL	BL	BL	BL	BL
30	White plastic(insulator, motor) ①②	BL	BL	BL	BL	BL
31	Blue plastic(ring, motor) ①②	BL	BL	BL	BL	BL
32	Purple plastic(ring, motor) ①②	BL	BL	BL	BL	BL
33	White plastic(bearing, motor) ①②	BL	BL	BL	BL	BL
34	Black material(ring, motor) ①②	BL	BL	BL	BL	BL
35	Black plastic(commutator, motor) ①②	BL	BL	BL	BL	BL
36	White plastic(ring, motor) ①②	BL	BL	BL	BL	BL
37	Black magnet(core, motor) ①②	BL	BL	BL	BL	BL
38	White plastic(cap, axis, motor) ①②	BL	BL	BL	BL	BL
39	Black plastic(pillar, transmission, motor) ①②	BL	BL	BL	BL	BL
40	White soft plastic(pillar fixer, transmission, motor) ①②	BL	BL	BL	BL	BL
41	Silvery magnet(core, transmission, motor) ①②	BL	BL	BL	BL	BL
42	White soft plastic(shell, plug, USB cable) ①②	BL	BL	BL	BL	BL

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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 4 of 21

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
43	White plastic(inner, plug, USB cable) ①②	BL	BL	BL	BL	BL
44*	White plastic(pin holder, plug, USB cable) ①②	BL	BL	BL	BL	IN
45	White soft plastic with black printing(USB cable jacket) ①②	BL	BL	BL	BL	BL
46	Black soft plastic(wire jacket, USB cable) ①②	BL	BL	BL	BL	BL
47	Red soft plastic(wire jacket, USB cable) ①②	BL	BL	BL	BL	BL
48	White soft plastic(shell, power plug, USB cable) ①②	BL	BL	BL	BL	BL
49*	Black plastic(pin holder, power plug, USB cable) ①②	BL	BL	BL	BL	IN
50	Silvery metal(screw, motor, massager) ①②	BL	BL	BL	BL	---
51	Silvery metal(motor holder, massager) ①②	BL	BL	BL	BL	---
52	Silvery metal(wire, sensor) ①②	BL	BL	BL	BL	---
53	Silvery solder(wire, sensor) ①②	BL	BL	BL	BL	---
54	Silvery metal(foil, switch"S1", PCB) ①②	BL	BL	BL	BL	---
55	Silvery metal(shell, switch"S1", PCB) ①②	BL	BL	BL	BL	---
56	Silvery plated golden metal(pin, socket, massager) ①②	BL	BL	BL	BL	---
57	Silvery metal(ring, socket, massager) ①②	BL	BL	BL	BL	---
58* ¹	Golden metal(shell, socket, massager) ①②	OL	BL	BL	BL	---
59	Silvery solder(shell, socket, massager) ①②	BL	BL	BL	BL	---
60	Silvery solder(PCB, massager) ①②	BL	BL	BL	BL	---
61	Silvery metal(plate, motor) ①②	BL	BL	BL	BL	---
62	Coppery metal(connector, motor) ①②	BL	BL	BL	BL	---
63	Bronze metal(bearing, motor) ①②	BL	BL	BL	BL	---
64	Dull silvery metal(fixer, motor) ①②	BL	BL	BL	BL	---
65	Silvery metal(brush, motor) ①②	BL	BL	BL	BL	---

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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 5 of 21

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
66	Silvery metal(pin, motor) ①②	BL	BL	BL	BL	---
67	Silvery solder(pin, motor) ①②	BL	BL	BL	BL	---
68	Silvery metal(base, motor) ①②	BL	BL	BL	BL	---
69	Silvery metal(shell, motor) ①②	BL	BL	BL	BL	---
70	Coppery metal(coil, motor) ①②	BL	BL	BL	BL	---
71*	Dull silvery metal(axis, motor) ①②	BL	BL	BL	IN	---
72	Silvery metal(shell, plug, USB cable) ①②	BL	BL	BL	BL	---
73	Silvery plated golden metal(pin, plug, USB cable) ①②	BL	BL	BL	BL	---
74	Silvery solder(pin, plug, USB cable) ①②	BL	BL	BL	BL	---
75	Silvery metal(fixer, plug, USB cable) ①②	BL	BL	BL	BL	---
76	Coppery metal(wire, USB cable) ①②	BL	BL	BL	BL	---
77	Silvery plated golden metal(shell, power plug, USB cable) ①②	BL	BL	BL	BL	---
78	Silvery plated golden metal(pin, power plug, USB cable) ①②	BL	BL	BL	BL	---
79	Silvery plated golden metal(tube, power plug, USB cable) ①②	BL	BL	BL	BL	---

Remark: ①Pink ②Red

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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 6 of 21

Remark:

(1)

-- = Not Conducted

* = 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 IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ< X <130+3σ≤OL	BL≤70-3σ< X <130+3σ≤OL	LOD < 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	--	BL≤250-3σ< X

BL = Below Limit

OL = Over Limit

IN = Inconclusive

LOD = Limit of Detection

*1 = As claimed by the material declaration submitted by the client, the material of the sample No. 58 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.

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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 7 of 21

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

(3) The maximum permissible limit is quoted from RoHS directive 2011/65/EU:

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

(4) As requested by applicant, only components shown in this report were screened by XRF spectroscopy for 2011/65/EU and its amendment directives, other components were not screened included in this report.

(5) Photo appendix is included.

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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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 8 of 21

Wet Chemical Testing:

Test method:

Lead Content:

With reference to IEC62321-5:2013, by acid digestion and analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) or Atomic Absorption Spectrometry (AAS).

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

1) The test results of Pb

Item	Unit	MDL	Results
			58
Lead (Pb) Content	mg/kg	10	20684

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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 9 of 21

2) The test results of Cr (VI)

Item	Unit	MDL	Results	Limit
			71	
Hexavalent Chromium (Cr(VI))	$\mu\text{g}/\text{cm}^2$	0.10	N.D.	**
Conclusion	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- ** =

a. The sample is positive for CrVI if the CrVI concentration is greater than $0.13 \mu\text{g}/\text{cm}^2$. The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10 \mu\text{g}/\text{cm}^2$). The coating is considered a non-CrVI based coating

c. The result between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ 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.

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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 10 of 21

3) The test results of PBBs & PBDEs

Item	Unit	MDL	Results				Limit
			17	24	44	49	
Polybrominated Biphenyls							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- The results less than MDL are not taken into account while calculating the sum contents.
- mg/kg = ppm
- Photo is included.

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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 11 of 21

Phthalates(DBP、BBP、DEHP、DIBP)content

Test method: With reference to IEC 62321-8(111/321/CD), by gas chromatographic-mass spectrometer (GC-MS)

Item	Unit	MDL	Results					Limit
			1	2	3	4	5	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			6	7	8	9	10	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	0.028	0.029	0.017	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 12 of 21

Item	Unit	MDL	Results					Limit
			11	12	13	14	15	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	0.013	N.D.	N.D.	N.D.	0.023	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			16	17	18	19	20	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	0.023	N.D.	0.013	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 13 of 21

Item	Unit	MDL	Results					Limit
			21	22	23	24	25	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			26	27	28	29	30	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	0.014	0.013	0.009	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 14 of 21

Item	Unit	MDL	Results					Limit
			31	32	33	34	35	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			36	38	39	40	42	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 15 of 21

Item	Unit	MDL	Results				Limit
			43	44	45	46	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	0.015	0.013	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	0.010	0.006	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	0.010	0.009	0.1
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results			Limit
			47	48	49	
Dibutyl Phthalate (DBP)	%	0.003	0.014	0.006	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	0.005	N.D.	N.D.	0.1
Diisobutyl Phthalate(DIBP)	%	0.003	0.010	0.005	N.D.	0.1
Conclusion	/	/	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- % = Percentage by weight
- 0.1% = 1000mg/kg, mg/kg = ppm
- Photo is included.

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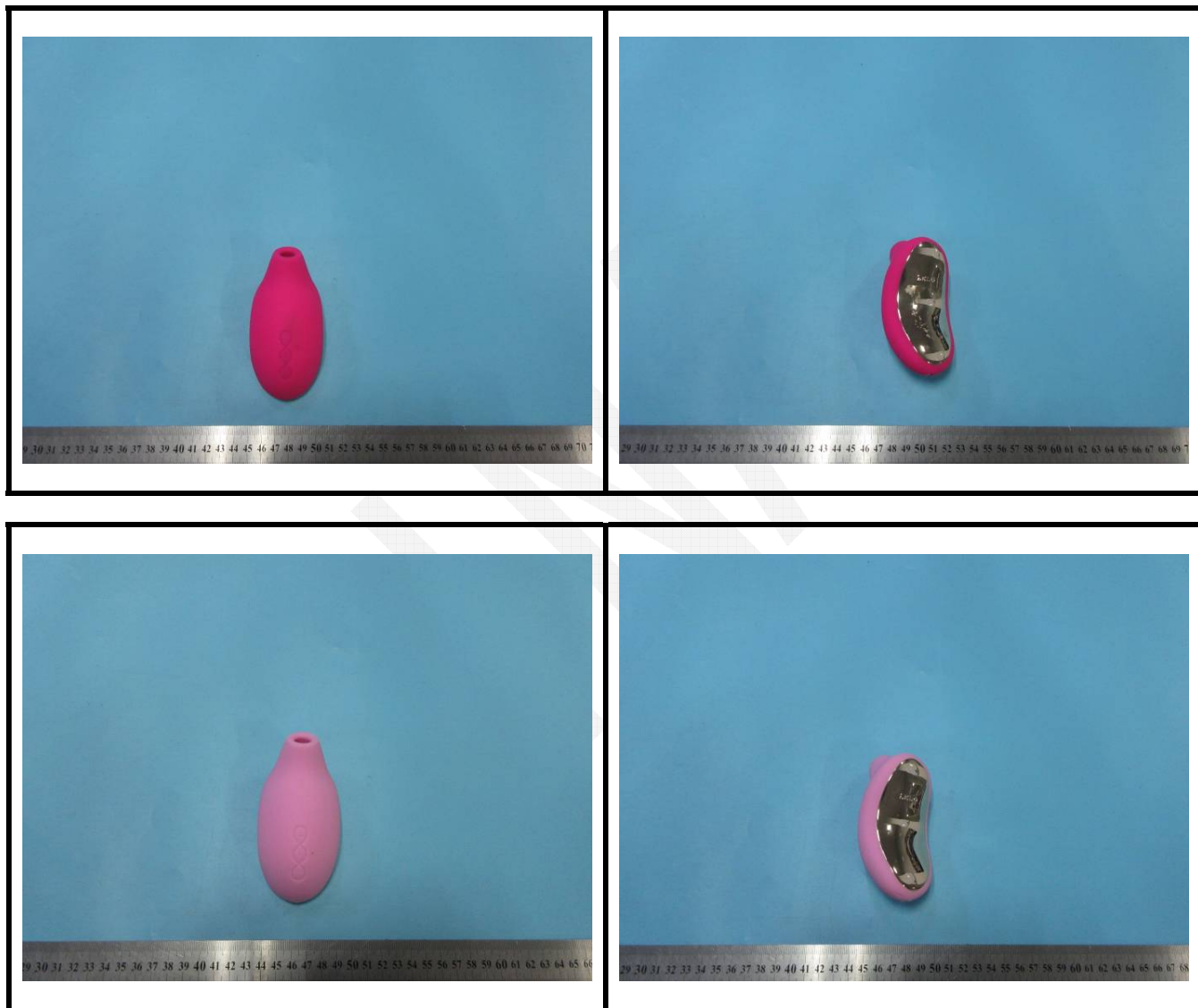
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REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 16 of 21

Photograph of Sample



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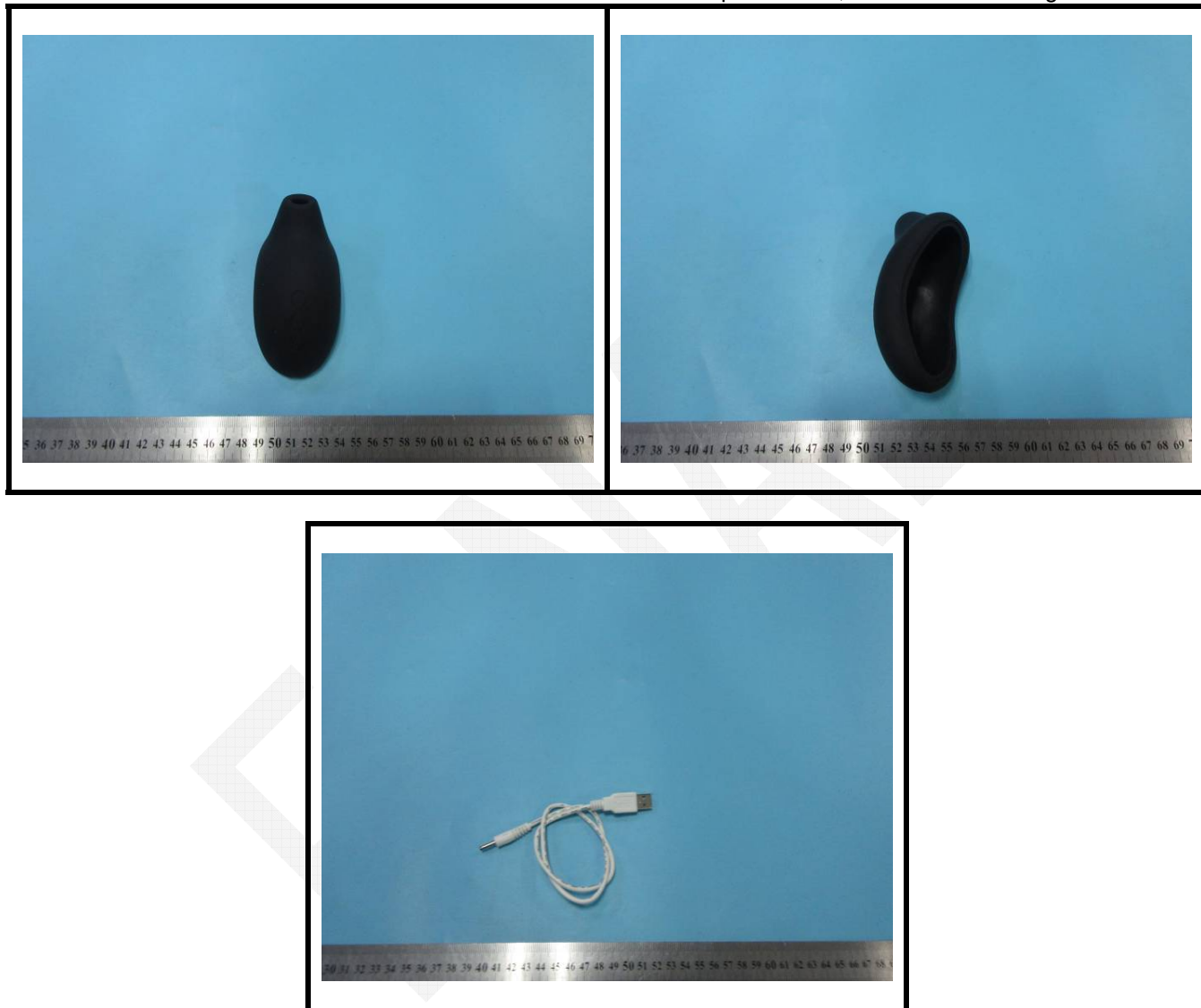
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REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 17 of 21



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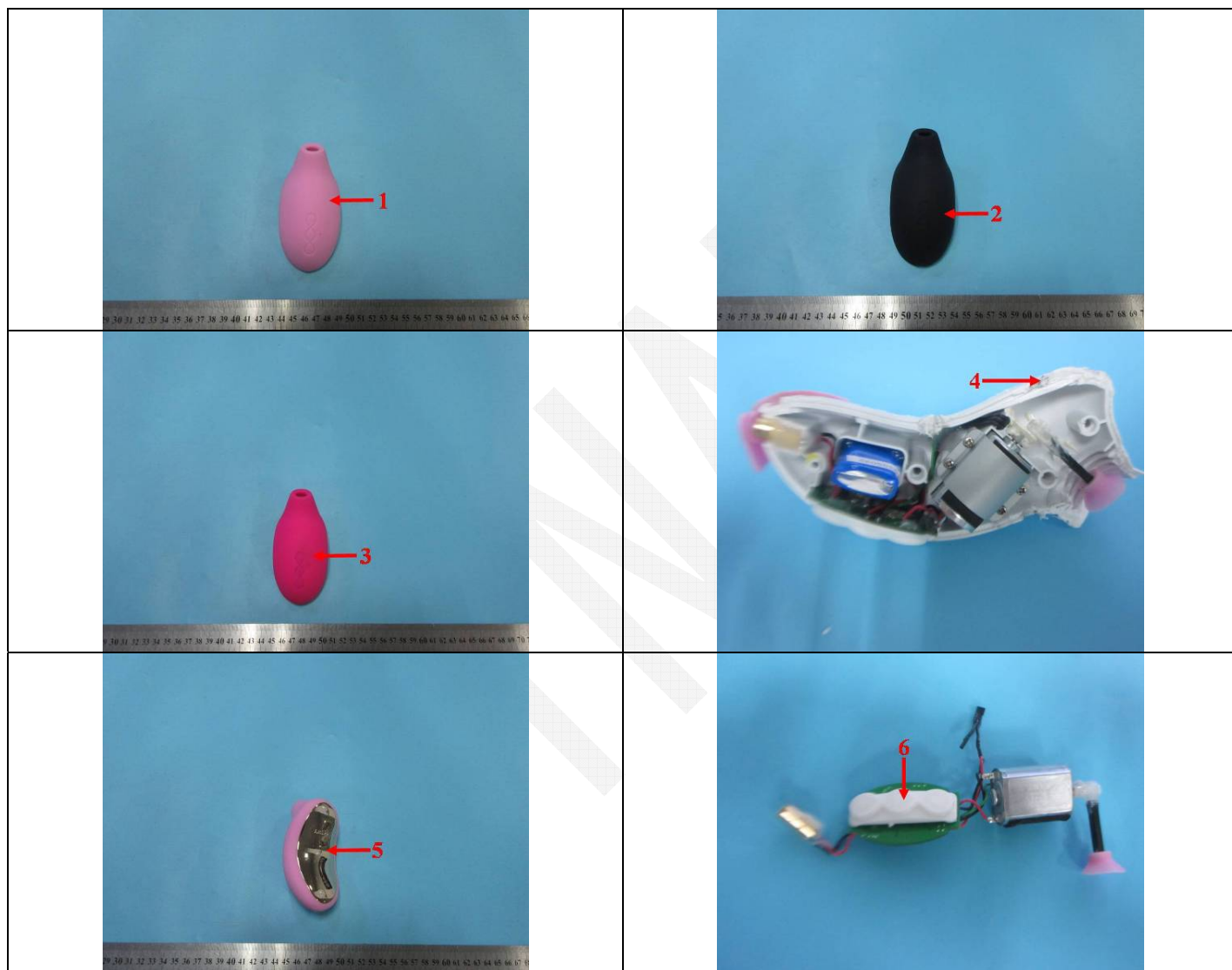
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REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 18 of 21



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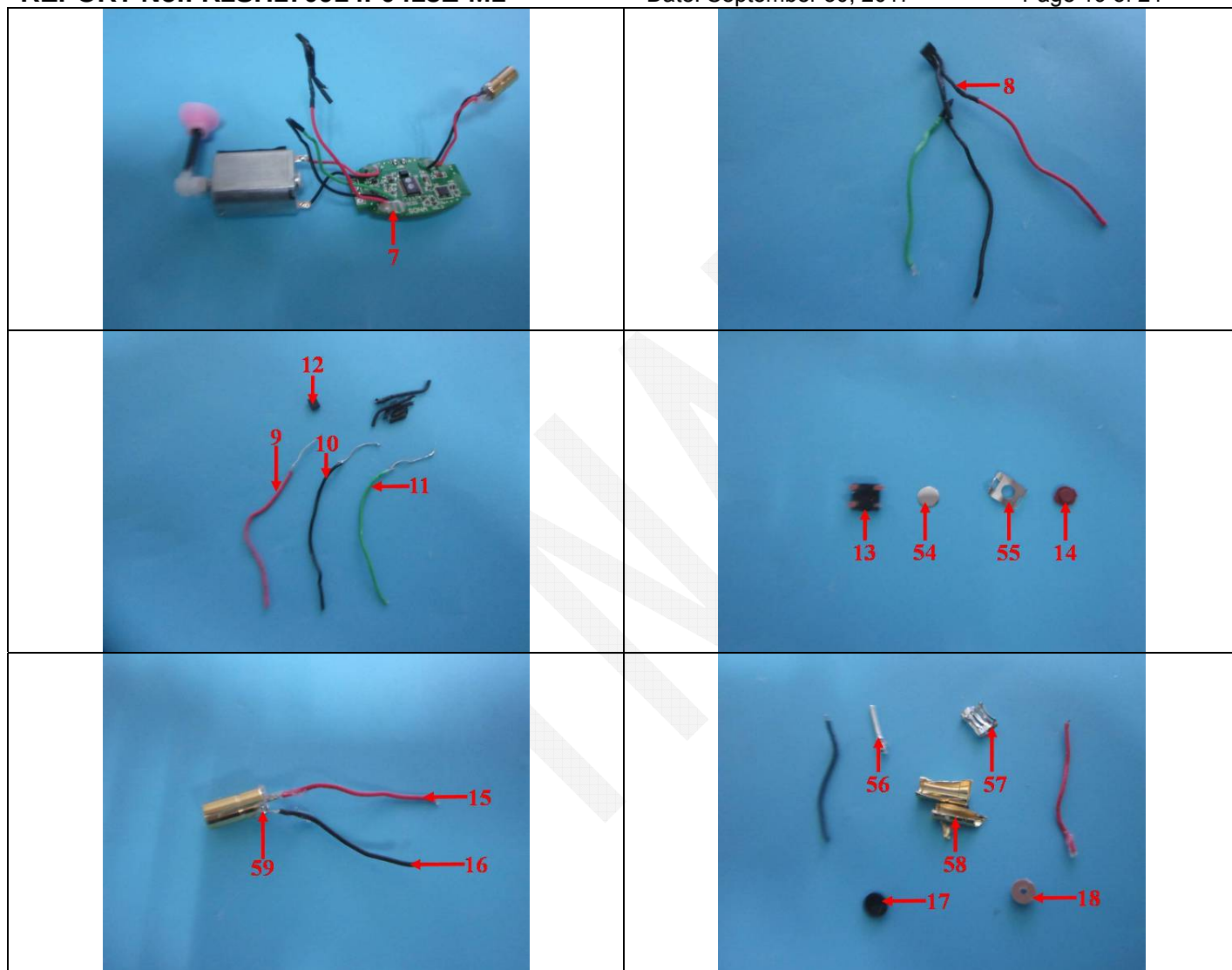
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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 19 of 21



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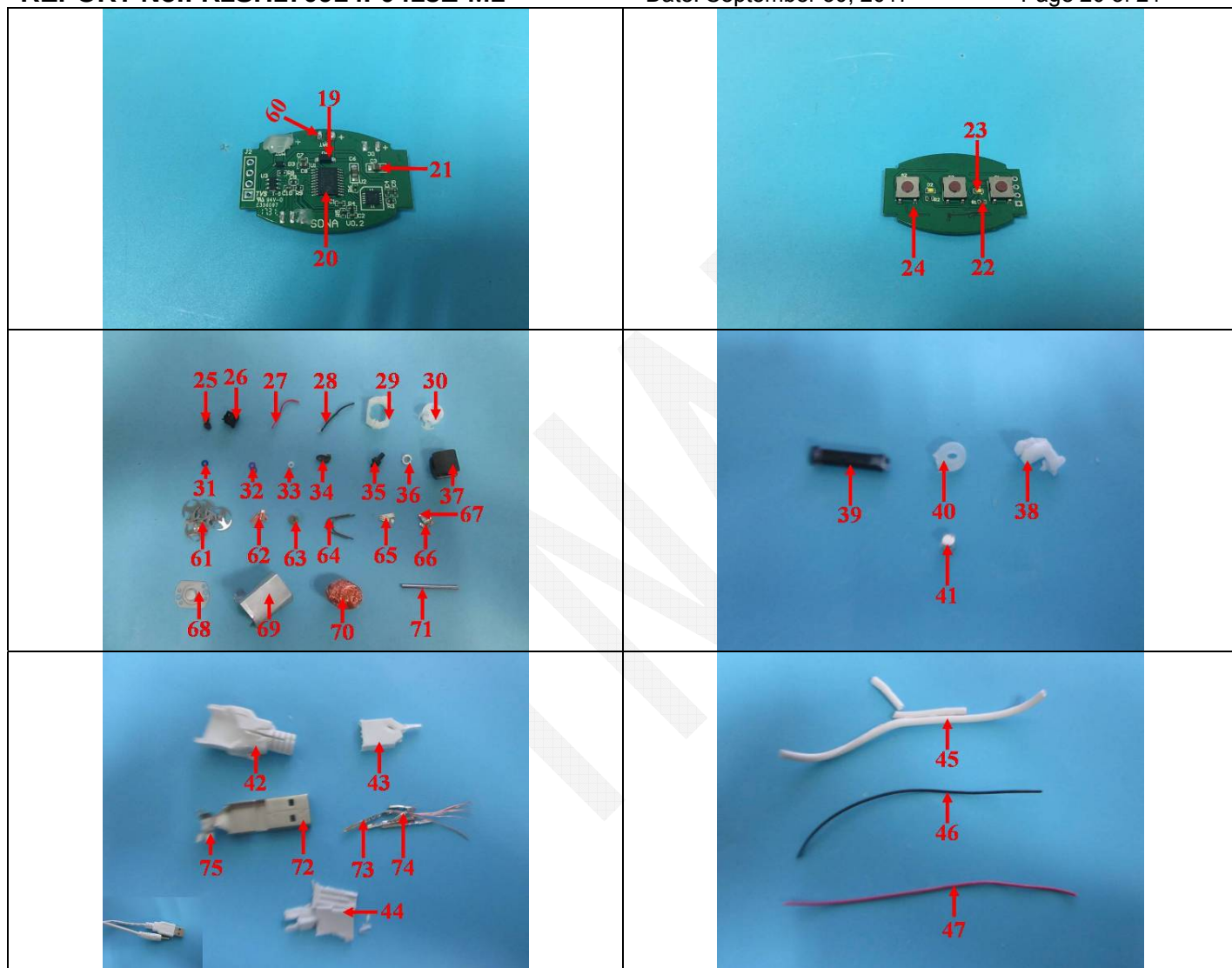
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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 20 of 21



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TEST REPORT

REPORT No.: R2SH170914F0418E-M1

Date: September 30, 2017

Page 21 of 21



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