



TEST REPORT

Report No.: STR18116046R

Date: Dec.05,2018

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Applicant : SHENZHEN WINTACT ELECTRONICS CO., LTD.

Applicant Address : ROOM C,FLOOR 6BLOCK B,DONGFANG JIANFU YIJING INDUSTRIAL ZONE,
GONGMING TOWN,GUANGMING DISTRICT,SHENZHEN CITY,GUANGDONG
PROVINCE,CHINA

The following sample was submitted by the client as:

Manufacturer : SHENZHEN WINTACT ELECTRONICS CO., LTD.

Manufacturer address : ROOM C,FLOOR 6BLOCK B,DONGFANG JIANFU YIJING INDUSTRIAL
ZONE,GONGMING TOWN,GUANGMING DISTRICT,SHENZHEN
CITY,GUANGDONG PROVINCE,CHINA

Sample Description : Humidity & Temperature Meter

Model No. : WT83、WT83B、WT83C、WT83D、GM1360、GM1360A、GM1361、
GM1361+、GM1362、GM1365、GM1366

Brand : WINTACT

Sample Receiving Date : Nov.28, 2018 & Dec.04, 2018

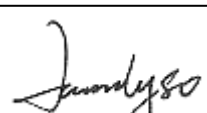
Test Period : Nov.28, 2018 to Dec.05, 2018

Test Requested:

As requested by the applicant, test(s) was/were performed as below:

Test Summary		Conclusion
1	European Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (XRF screening and chemical confirm)	PASS

Test Results: Please refer to following page(s).

Tested by:  Alen Zhang	Reviewed by:  Eric Lu	Approved by:  Jandyso
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Declaration:

- (1) The report shall not be reproduced partly without the written approval of the laboratory, except in full produced.
- (2) All the results shown in the report apply to the tested sample, any erasion on the report is invalid
- (3) All tested sample will be kept for one month, if there is any doubt about the test result, please inform within this period

Shenzhen SEM Test Technology Co., Ltd.

1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C. (518101)



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RoHS hazardous substances test

Test method:

IEC 62321-3-1:2013, XRF screening

IEC 62321-4-2013 for Hg, analyzed by ICP-OES

IEC 62321-5-2013 for Cd and Pb, analyzed by ICP-OES

IEC 62321-7-2:2017 method 7.1 and/or IEC 62321-7-1:2015 for Cr⁶⁺, analyzed by UV-VIS

IEC 62321-6-2015 for PBBs and PBDEs, analyzed by GC-MS

1. XRF results:

No.	Name of the sample	Part name	Sample Description	Results				
				Pb	Cd	Hg	Cr	Br
1	Parts	Screw	Silvery metal	BL	BL	BL	IN	NA
2		Shell	White plastic shell	BL	BL	BL	BL	BL
3			Blue plastic shell	BL	BL	BL	BL	BL
4			Transparent plastic plate	BL	BL	BL	BL	BL
5			Silvery metal (groove)	IN	BL	BL	BL	NA
6		Button	Black rubber button	BL	BL	BL	BL	BL
7			Red rubber button	BL	BL	BL	BL	BL
8		Label	Silvery plastic film label w/black printing	BL	BL	BL	BL	BL
9		Battery	Silvery metal plate	BL	BL	BL	BL	NA
10			Silvery metal spring	BL	BL	BL	BL	NA
11			Solder	BL	BL	BL	BL	NA
12			Red plastic wire	BL	BL	BL	BL	BL
13			Black plastic wire	BL	BL	BL	BL	BL
14			Silvery metal core	BL	BL	BL	BL	NA
15		Screen	Transparent glass	BL	BL	BL	BL	BL
16			Gray glass	BL	BL	BL	BL	BL
17			Black rubber piece	BL	BL	BL	BL	BL
18			Milk plastic film	BL	BL	BL	BL	BL
19			Translucent hard plastic	BL	BL	BL	BL	BL
20		Humidity & Temperature Meter	Black plastic	BL	BL	BL	BL	BL
21			Gloss metal support	BL	BL	BL	IN	NA
22	PCB	PCB	Green PCB body	BL	BL	BL	BL	IN
23			Solder	BL	BL	BL	BL	NA



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No.	Name of the sample	Part name	Sample Description	Results				
				Pb	Cd	Hg	Cr	Br
24	PCB	SMD	Black resistor SMD	BL	BL	BL	BL	BL
25			Brown capacitor SMD	BL	BL	BL	BL	BL
26			Black diode SMD	BL	BL	BL	BL	BL
27			Black triode SMD	BL	BL	BL	BL	BL
28			Black IC SMD	BL	BL	BL	BL	BL
29		IC	Black body	BL	BL	BL	BL	BL
30			Silvery metal PIN	BL	BL	BL	BL	NA
31		LED	Transparent body	BL	BL	BL	BL	NA
32			Silvery metal PIN	BL	BL	BL	BL	NA
33		Triode	Black body	BL	BL	BL	BL	BL
34			Silvery metal PIN	BL	BL	BL	BL	NA
35		Tantalum cap acitor	Yellow body	BL	BL	BL	BL	BL
36			Black solid material	BL	BL	BL	BL	BL
37			Silvery metal PIN	BL	BL	BL	BL	NA
38		Glass sealed diode	Black&red body w/silvery metal edge	BL##	BL	BL	BL	NA
39		Buzzer	Solder	BL	BL	BL	BL	NA
40			Green PCB	BL	BL	BL	BL	IN
41			Copper metal core	BL	BL	BL	BL	NA
42			Copper metal round	BL	BL	BL	BL	NA
43			Black plastic	BL	BL	BL	BL	BL
44			Black solid material	BL	BL	BL	BL	BL

2. Chemical confirm results:

Test Item(s)	Result (mg/kg)			Limit (mg/kg)
	5	1	21	
Hexavalent Chromium Cr(VI)	--	Negative	Negative	--
Lead (Pb)	15600#	--	--	40000
Comment	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)		Limit (mg/kg)
	22	40	
Mono-PBB	ND	ND	--



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Di-PBB	ND	ND	--
Tri-PBB	ND	ND	--
Tetra-PBB	ND	ND	--
Penta-PBB	ND	ND	--
Hexa-PBB	ND	ND	--
Hepta-PBB	ND	ND	--
Octa-PBB	ND	ND	--
Nona-PBB	ND	ND	--
Deca-PBB	ND	ND	--
Sum of PBBs	ND	ND	1000
Mono-PBDE	ND	ND	--
Di- PBDE	ND	ND	--
Tri- PBDE	ND	ND	--
Tetra- PBDE	ND	ND	--
Penta- PBDE	ND	ND	--
Hexa- PBDE	ND	ND	--
Hepta- PBDE	ND	ND	--
Octa- PBDE	ND	ND	--
Nona- PBDE	ND	ND	--
Deca- PBDE	ND	ND	--
Sum of PBDEs	ND	ND	1000
Comment	PASS	PASS	--

Remark:

1. BL = below limit
2. OL = over limit
3. IN = inconclusive, chemical confirm test is recommended
4. NA = not applicable
5. mg/kg = milligram per kilogram = ppm
6. Method Detection Limit (MDL) :10mg/kg for Pb, Cd, Hg and Cr(VI); 10mg/kg for PBB and PBDE
7. ND = not detected
8. Negative = The Cr(VI) concentration is below the limit of quantification. The coating is considered a non- Cr(VI)⁺ based coating.
9. Positive = 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).

Note:

1. When perform screening tests, it is the result on total Br while test item on restricted substances is PBBs/PBDEs, it is the result on total Cr while test item on restricted substances is Cr(VI).



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2. Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration falls into the inconclusive area according to IEC 62321-3-1:2013 (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	---	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

3. The XRF screening test for RoHS elements. The reading may be different to the actual content in the sample be of non-uniformity composition.
4. # the lead content of tested component exceeded 1000ppm, but less than 40000ppm, it can comply with the RoHS directive, as it is exempted to contain lead with up to 40000ppm according to item 6(c) of annex III of 2011/65/EU, as per applicant's declaration.
5. ##-The source of Lead in Sample 38 could be from a glass or ceramic other than dielectric ceramic in capacitors of that Electrical and electronic components which is exempted by Directive 2011/65/EU (RoHS) (e.g. piezoelectronic devices, or in a glass or ceramic matrix compound)
6. Results shown of component 23 were based on raw solder wire resubmitted by applicant.

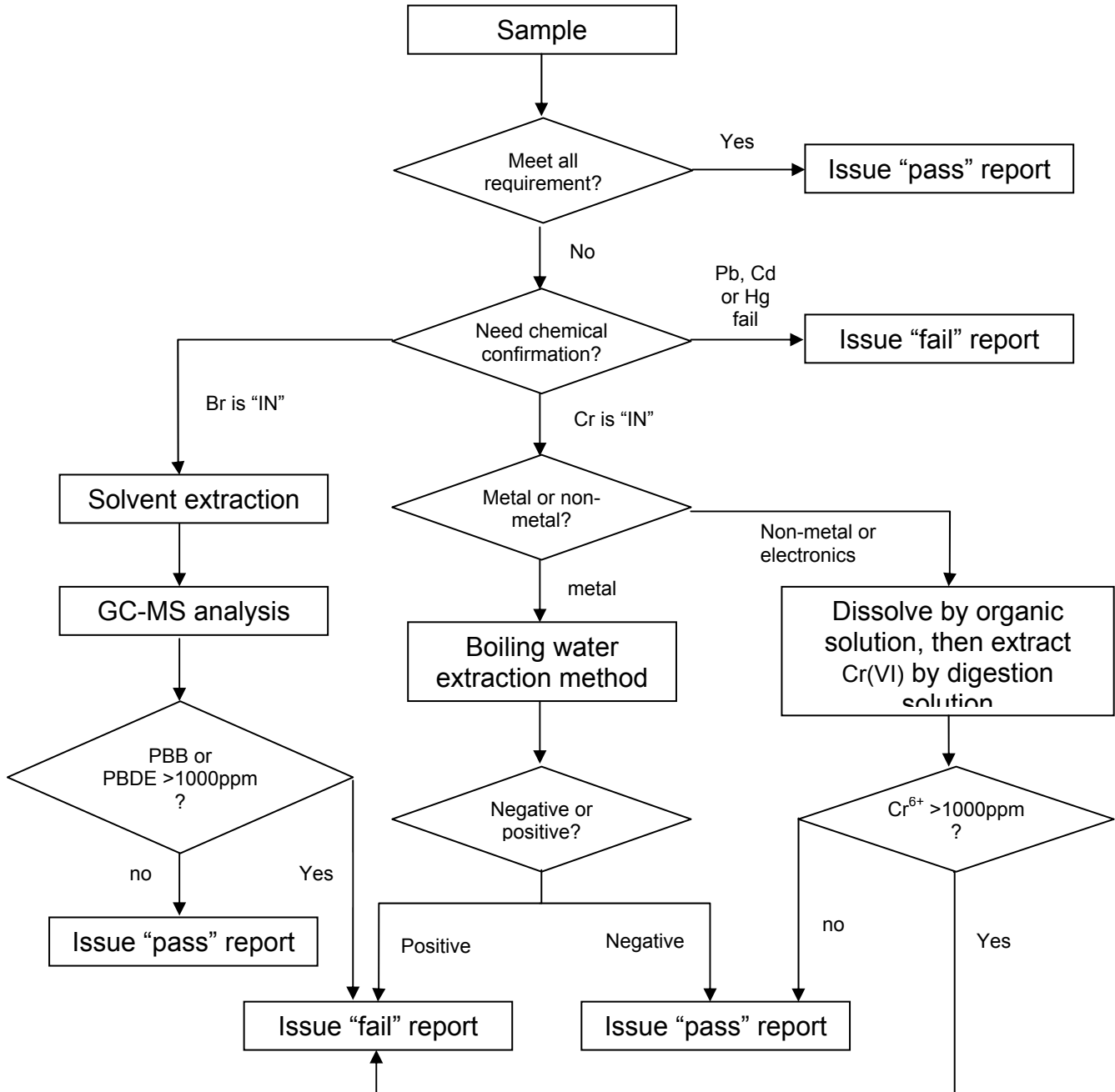
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Test flow:



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Tested sample photo:



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