



TEST REPORT

Report No.: STR18116043R

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 : Gas Monitor

Model No. : WT8811、WT8800、WT8801、WT8802、WT8803、WT8804、WT8805、
WT8806、WT8807、WT8808、WT8809、WT8820、WT8821、WT8822、
WT8823、WT8825、WT8826、GM8800A、GM8800B

Brand : WINTACT

Sample Receiving Date : Nov.28, 2018

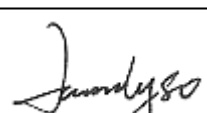
Test Period : Nov.28, 2018 to Dec.05, 2018

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	Body	Screw	Silvery metal 1	BL	BL	BL	BL	NA
2			Silvery metal 2	BL	BL	BL	BL	NA
3		Shell	Light black plastic shell	BL	BL	BL	BL	BL
4			Red rubber	BL	BL	BL	BL	BL
5			Transparent plastic plate	BL	BL	BL	BL	BL
6			Translucent plastic piece	BL	BL	BL	BL	BL
7			Silvery metal nut	IN	BL	BL	BL	NA
8			Coppery metal nut	IN	BL	BL	BL	NA
9		Buckle	Silvery metal plate	BL	BL	BL	IN	NA
10			Gloss metal ring	BL	BL	BL	BL	NA
11		Button	Gray rubber button	BL	BL	BL	BL	BL
12			Red rubber button	BL	BL	BL	BL	BL
13		Screen	Transparent glass	BL	BL	BL	BL	BL
14			Gray glass	BL	BL	BL	BL	BL
15			Black rubber piece	BL	BL	BL	BL	BL
16			Milk plastic film	BL	BL	BL	BL	BL
17			Translucent hard plastic	BL	BL	BL	BL	BL
18			Golden FPC	BL	BL	BL	BL	BL
19	PCB 1	PCB	Green PCB body	BL	BL	BL	BL	IN
20			Solder	BL	BL	BL	BL	NA
21		SMD	Black resistor SMD	BL	BL	BL	BL	BL
22			Brown capacitor SMD	BL	BL	BL	BL	BL
23			Black diode SMD	BL	BL	BL	BL	BL



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No.	Name of the sample	Part name	Sample Description	Results				
				Pb	Cd	Hg	Cr	Br
24	PCB 1	SMD	Black triode SMD	BL	BL	BL	BL	BL
25			Black IC SMD	BL	BL	BL	BL	BL
26		IC 1	Black body	BL	BL	BL	BL	BL
27			Silvery metal PIN	BL	BL	BL	BL	NA
28		IC 2	Black body	BL	BL	BL	BL	BL
29			Silvery metal PIN	BL	BL	BL	BL	NA
30		Triode	Black body	BL	BL	BL	BL	BL
31			Silvery metal PIN	BL	BL	BL	BL	NA
32		USB	Black plastic	BL	BL	BL	BL	BL
33			Silvery metal	BL	BL	BL	BL	NA
34			Silvery metal PIN	BL	BL	BL	BL	NA
35		Glass sealed diode	Black w/red body	BL	BL	BL	BL	NA
36		Connector	Black plastic	BL	BL	BL	BL	BL
37			White plastic	BL	BL	BL	BL	BL
38			Silvery metal PIN	BL	BL	BL	BL	NA
39		Switch	Golden metal button	BL	BL	BL	BL	NA
40			Silvery metal	BL	BL	BL	BL	NA
41			Silvery metal piece	BL	BL	BL	BL	NA
42			Golden metal piece	BL	BL	BL	BL	NA
43			Yellow plastic film	BL	BL	BL	BL	BL
44			Silvery metal PIN	BL	BL	BL	BL	NA
45			Black plastic base	BL	BL	BL	BL	BL
46	PCB 2	Buzzer	Solder	BL	BL	BL	BL	NA
47			Green PCB	BL	BL	BL	BL	IN
48			Copper metal core	BL	BL	BL	BL	NA
49			Copper metal round	BL	BL	BL	BL	NA
50			Black plastic	BL	BL	BL	BL	BL
51			Black solid material	BL	BL	BL	BL	BL
52		Support	Black plastic	BL	BL	BL	BL	BL
53			Silvery metal PIN	BL	BL	BL	BL	NA
54		Catalytic element(MJC 4/3.0L)	White paper w/black printing	BL	BL	BL	BL	BL



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No.	Name of the sample	Part name	Sample Description	Results				
				Pb	Cd	Hg	Cr	Br
55	PCB 2	Catalytic element(MJC 4/3.0L)	Golden solid material body	BL	BL	BL	BL	BL
56			Golden metal PIN	BL	BL	BL	BL	NA
57		Carbon monoxide sensor	White paper w/multi-color printing	BL	BL	BL	BL	BL
58			Coppery metal PIN	IN	BL	BL	BL	NA
59			Gray plastic body	BL	BL	BL	BL	BL
60			White solid material	BL	BL	BL	BL	BL
61			Yellow solid material	BL	BL	BL	BL	BL
62		Hydrogen sulphide sensor	Blue plastic body	BL	BL	BL	BL	BL
63		Oxygen sensor	Black plastic body	BL	BL	BL	BL	BL
64			Silvery metal net	BL	BL	BL	BL	NA
65			Black solid material	BL	BL	BL	BL	BL
66		Metal	Coppery metal tube	IN	BL	BL	BL	NA
67		IC	Black body	BL	BL	BL	BL	BL
68			Silvery metal PIN	BL	BL	BL	BL	NA
69		Triode	Black body	BL	BL	BL	BL	BL
70			Silvery metal PIN	BL	BL	BL	BL	NA
71		SMD	Black resistor SMD	BL	BL	BL	BL	BL
72			Brown capacitor SMD	BL	BL	BL	BL	BL
73			Black diode SMD	BL	BL	BL	BL	BL
74			Black triode SMD	BL	BL	BL	BL	BL
75		Tantalum capacitor	Yellow body	BL	BL	BL	BL	BL
76			Black solid filling	BL	BL	BL	BL	BL
77			Silvery metal PIN	BL	BL	BL	BL	NA
78		R22	Silvery metal dot	BL	BL	BL	BL	NA
79			White plastic	BL	BL	BL	BL	BL
80		Microphone	Blue plastic wire	BL	BL	BL	BL	BL
81			Red plastic wire	BL	BL	BL	BL	BL
82			Silvery metal core	BL	BL	BL	BL	NA
83			Black rubber piece	BL	BL	BL	BL	BL
84			Dark metal body	BL	BL	BL	BL	NA
85			Golden FPC	BL	BL	BL	BL	BL



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No.	Name of the sample	Part name	Sample Description	Results				
				Pb	Cd	Hg	Cr	Br
86	PCB 2	Microphone	Solder	BL	BL	BL	BL	NA
87			Coppery metal coil	BL	BL	BL	BL	NA
88			Golden metal ring	BL	BL	BL	BL	NA
89			White plastic	BL	BL	BL	BL	BL
90			Silvery metal axle	BL	BL	BL	BL	NA
91			Silvery metal magnet	BL	BL	BL	BL	NA

2. Chemical confirm results:

Test Item(s)	Result (mg/kg)					Limit (mg/kg)
	9	7	8	58	66	
Hexavalent Chromium Cr(VI)	Negative	--	--	--	--	--
Lead (Pb)	--	26500#	34300#	8500#	16000#	40000
Comment	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)		Limit (mg/kg)
	19	47	
Mono-PBB	ND	ND	--
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	--



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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).
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.

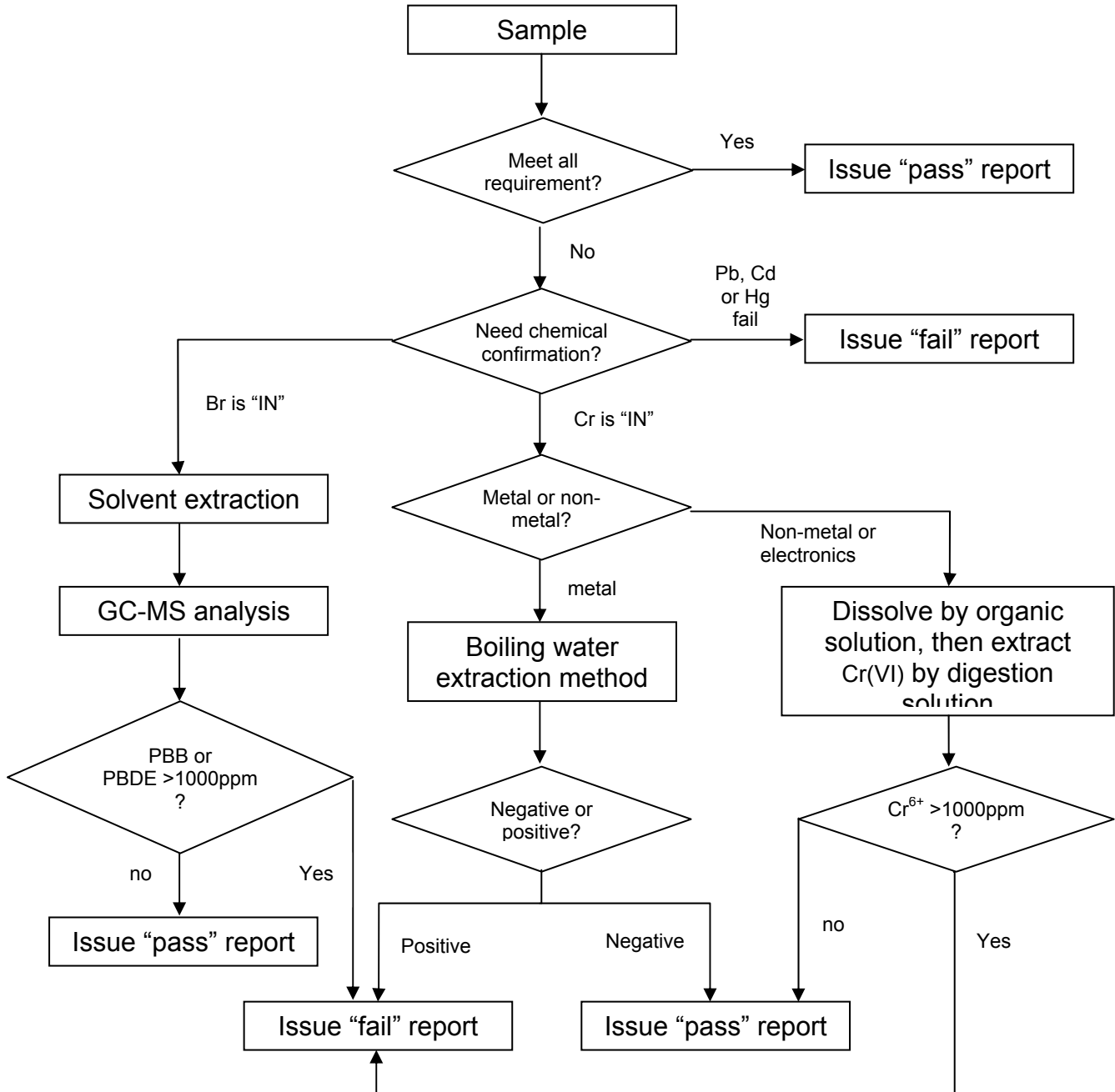
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Test flow:



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Tested sample photo:

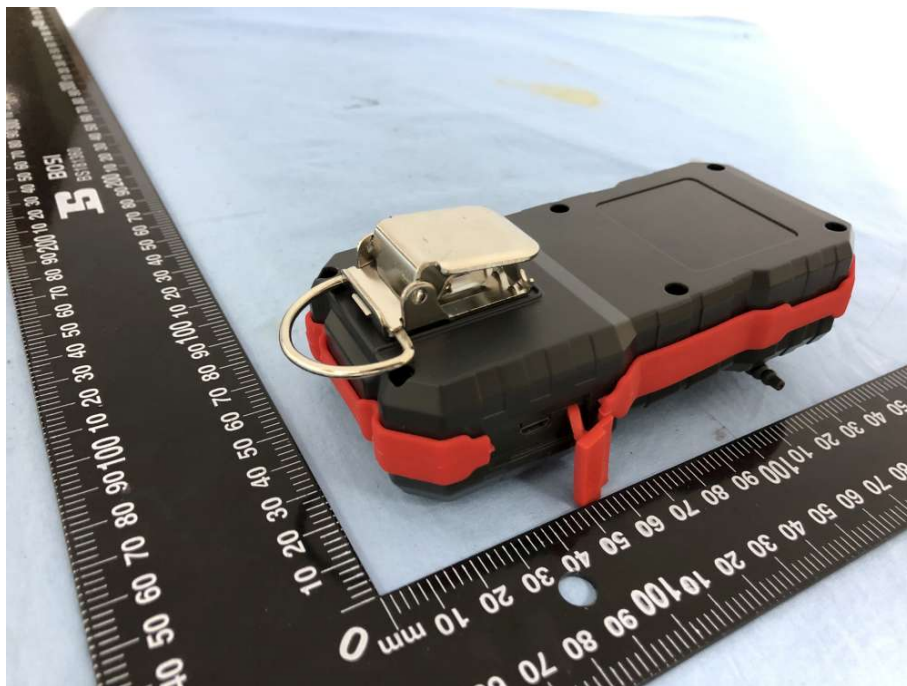


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