

# **RoHS TEST REPORT**

*For*

**Vehicle Radio**

**Model: ST-5188**

**Brand Name: Soontone**

**Report No.: QZAGC013080302E8**

**Date of Issue: May. 06, 2008**

*Prepared For*

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**A: TEST METHOD:**

Testing Items	Test Method
Cd 、 Pb 、 Hg 、 Cr 、 Br	Reference to SJ/T 11365-2006 Test Method (Equivalent to IEC 62321 Test method) ED-XRF was adopted.

**B: XRF screening limits in mg/kg for regulated elements in various material:**

Elements	Polymer Materials	Metallic Materials	Electronics
Cd	$P \leq 70 < IC < 130 \leq F$	$P \leq 70 < IC < 130 \leq F$	$P \leq 70 < IC < 250 \leq F$
Pb	$P \leq 700 < IC < 1300 \leq F$	$P \leq 700 < IC < 1300 \leq F$	$P \leq 500 < IC < 1500 \leq F$
Hg	$P \leq 700 < IC < 1300 \leq F$	$P \leq 700 < IC < 1300 \leq F$	$P \leq 500 < IC < 1500 \leq F$
Cr	$P \leq 500 < IC$	$P \leq 700 < IC$	$P \leq 500 < IC$
Br	$P \leq 300 < IC$	NOT APPLICABLE	$P \leq 250 < IC$
Note	P=Pass; F=Fail ; IC=Inconclusive.		

**Explain :**

This XRF Screening Report is for reference purposes only the applicant shall make its/his/her judgment as to whether the information provided in this XRF Screening Report is sufficient for its/his/her purposes the results 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 further wet chemical Per-treatment with relevant chemical equipment analysis are required to obtain quantitative data. Conclusion of XRF (Pass, Fail or Inconclusive) not considered exempt article for ROHS.

**Declaration**

- (1): The report shall not be reproduced except in full, without the written approval of the laboratory.  
 (2): The report relate only to the items tested.

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May 06, 2008

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May 06, 2008

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May. 06, 2008

**1: SAMPLE DESCRIPTIN:**

No.	Part Name	Seq. No.	Sample Description	Noted (model/ size)			
1	5188-1 (车载台)	1.1	Black coating	Cover			
		1.2	Silvery color metal fiber body				
		1.3	Silvery gray color metal				
		1.4	Screw w/black coating				
		1.5	Black dustproof fabric	speaker			
		1.6	Blue film				
		1.7	Silvery color metal				
		1.8	Black plastic cover	Panel			
		1.9	Black rubber				
		1.10	Black sponge				
		1.11	Black Plastic	Key-press			
		1.12	Black Plastic	Knob			
		1.13	Transparent glass w/ black coating				
		1.14	Silvery color metal	插头套环			
		1.15	Brassy color metal	VOL 旋钮套环			
		1.16	Silvery color metal	螺丝垫片			
		1.17	Silvery color screw	PCB board			
		1.18	Silvery color metal	Crust	显示屏		
		1.19	Red surfaced black rubber				
		1.20	Transparent gray plastic				
		1.21	Transparent glass				
		1.22	Transparent plastic film				
		1.23	White plastic				
		1.24	Transparent plastic				
		1.25	Black plastic	Earplug stopper			
		1.26	Silvery color metal				
		1.27	Silvery color metal / solder	VOL			
		1.28	Blue plastic				
		1.29	Green plastic				
		1.30	Copper color metal/ silvery color metal	Washer			
		1.31	Black plastic				
		1.32	Silvery color metal	Knob			
		1.33	Silvery color metal	Pin			
		1.34	Silvery color metal	调台			
		1.35	Silvery color metal				
		1.36	Green plastic				
		1.37	Pin				
		1.38	Copper color metal	Shrapnel			

No.	Part Name	Seq. No.	Sample Description	Noted (model/ size)	
		1.39	Brown plastic		
		1.40	Black plastic	Jack	
		1.41	Silvery color metal		
		2.1	Black body	IC	PCB(0735)
		2.2	Black plastic body	IC S3P8 249XZZ-QW89	
		2.3	Silvery color metal		
		2.4	Crystal body	M7037JL	
		2.5	Silvery color metal	Key-press	
		2.6	Cream-yellow plastic		
		2.7	Black plastic/silvery color metal		
		2.8	Silvery color metal	Electronical drop-out needle	
		2.9	Golden color metal	Shrapnel	
		2.10	Black plastic	Electronical drop-out needle	
		2.11	Silvery color metal		
		2.12	Cream-yellow plastic		
		2.13	Crystal body	S3.5795	
		2.14	Audion	7550-1	
		2.15	Black plastic/silvery color metal	0468	
		2.16	Black plastic/silvery color metal	IC 24C64AN	
		2.17	Black plastic/silvery color metal	IC HT9200A	
		2.18	Black plastic cable jacket	Electrolytic capacitor (47uF16V)	
		2.19	Silvery color metal		
		2.20	Silver paper		
		2.21	Electrolytic paper		
		2.22	Black rubber		
		2.23	Silvery color metal pin	Electrolytic capacitor(22uF25V)	
		2.24	Black plastic cable jacket		
		2.25	Silvery color metal		
		2.26	Silver paper		
		2.27	Electrolytic paper		
		2.28	Black rubber	IC733	
		2.29	Silvery color metal pin		
		2.30	Black body	IC97	
		2.31	Black body	CPU UNIT VCR 2.2 218692	
2.32	PCB(贴片电容，电阻，焊锡，铜箔， 绿油，底材)				
2.33	PCB 板（铜箔，绿油，底材）Green coating, copper foil, fiber body	QX5188-V3 OFM07.35 ET-0802			
2.34	Solder	QX5188-V3 OFM07.35 ET-0802			

No.	Part Name	Seq. No.	Sample Description	Noted (model/ size)	
		3.1	White plastic	Connect	
		3.2	Silvery color metal		
		3.3	Offwhite plastic cable jacket		Speaker
		3.4	Silvery color meal wire		
		3.5	Solder/silvery color metal		
		3.6	Silvery metal	Rivet	
		3.7	White paper washer		
		3.8	Copper color metal wire		
		3.9	Black paper / black glue		
		3.10	Yellow paper		
		3.11	Black plastic		
		3.12	Black fabric	Diaphragm	
		3.13	Copper color metal wire		
		3.14	Silvery color metal wire		
		3.15	Silvery color metal wire	Magnet	
		4.1	Black rubber	密封条（seal）	底壳
		4.2	White plastic	排针上（TC6）	PCB Board
		4.3	Silvery color metal screw	固定 PCB 板	
		4.4	Silvery color metal big screw		
		4.5	Golden color metal	Washer	
		4.6	Label		
		4.7	Yellow plastic glue		
		4.8	Brassy metal	Antenna connect	
		4.9	White plastic		
		4.10	Cream-colored plastic	Power supply wire connect plugs	
		4.11	Brassy metal	Metal connect	
		4.12	Black plastic	Wire clip（线夹）	
		4.13	Black plastic cable jacket		
		4.14	Red plastic cable jacket		
		4.15	Copper color metal wire		
		4.16	Silvery color metal / solder	Metal connector	
		4.17	Transparent plastic		
		4.18	Silvery color metal / fuse	保险管	
		4.19	Transparent glass		
		5.1	Black plastic	IC	
		5.2	Silvery coating w/ copper fiber body		
		5.3	Silvery color metal	IC (SRF7042 9819)	
		5.4	Silvery color metal	copper	
		5.5	White plastic		

No.	Part Name	Seq. No.	Sample Description	Noted (model/ size)
		5.6	Light golden color metal w/ chip	
		5.7	Silvery color metal	屏蔽盖
		5.8	Crystal rubber	38.850 TED
		5.9	White rubber	
		5.10	Black plastic	M50GW
		5.11	Washer	
		5.12	Golden color metal	
		5.13	Gray washer	
		5.14	Silvery color metal	
		5.15	Copper color coil	Inductance ( 电感)
		5.16	Black plastic	IC(KA 7808)
		5.17	Silvery color metal	
		5.18	Black plastic	IC(L7806CV)
		5.19	Silvery color metal	
		5.20	Black plastic cable jacket	电解电容 (47uF25V)
		5.21	Silvery color metal	
		5.22	Silver paper	
		5.23	Electrolytic paper	
		5.24	Black rubber	
		5.25	Silvery color metal pin	
		5.26	Bright foil	
		5.27	Black plastic cable jacket	电解电容 (33uF25V)
		5.28	Silvery color metal	
		5.29	Silver paper	
		5.30	Electrolytic paper	
		5.31	Black rubber	
		5.32	Silvery color metal pin	
		5.33	Bright foil	
		5.34	Black plastic	Diode(27 008 J)
		5.35	Silvery color metal	
		5.36	Black plastic	Power supply jack ( 电源插孔)
		5.37	Silvery color meta	
		5.38	White plastic	接线口
		5.39	Silvery color metal	
		5.40	Black plastic	50C24
		5.44	Audion body	78L05625SB
		5.45	Black plastic body	IC (2904 H23JRC)
		5.46	Black plastic body	IC (2902 70668JRC)
		5.47	Black plastic body	IC (2902 71768JRC)

No.	Part Name	Seq. No.	Sample Description	Noted (model/ size)
		5.48	Black plastic body	IC (2902 71768JRC)
		5.49	Black plastic body	IC (2902 71762JRC)
		5.50	Black plastic body	IC (31136G 735)
		5.51	Black plastic body	IC (E57AF)
		5.52	Black plastic body	IC (H 2364FP)
		5.53	Black plastic body	IC (RD07MVSL)
		5.54	Silvery color metal	电源插口
		5.55	Gray body	Capacitor ( 电容-360)
		5.56	Light yellow body	Capacitor
		5.57	Muddy color body	Capacitor
		5.58	Silvery color metal pin	Diode
		5.59	Transparent glass	
		5.60	Yellow body	Relay ( 继电器 )
		5.61	Crystal body	NKG3140B
		5.62	Black plastic body	IC
		5.63	Black plastic body	IC
		5.64	Black body	471,101,331,330,0
		5.65	Chip resistor	
		5.66	Black plastic cable jacket	47uF25V ( 电解电容 )
		5.67	Silvery color metal	
		5.68	Black plastic	
		5.69	Bright silver paper	
		5.41	Silvery color metal pin	
		5.42	Silver paper	
		5.43	Electrolytic paper	
2	5188-4	1.1	Screw w/ black coating	
		1.2	Multi-color electric-plated metal (screw washer)	
		1.3	Transparent glass	Fuse
		1.4	Silvery color metal	
		1.5	Silvery color metal	
3	5188-4	1.9	White plastic	Power supply wire
		1.10	Copper color metal	
		1.11	Transparent plastic	
		1.12	Silvery color metal	
		1.13	Red plastic cable jacket	
		1.14	Black plastic cable jacket	
		1.15	Copper color metal	
4	5188-6	1.16	Black plastic	

No.	Part Name	Seq. No.	Sample Description	Noted (model/ size)
		1.17	Silvery color metal	Pin
		1.18	Black plastic	
		1.19	Silvery color metal	Metal cover
		1.20	Silvery color metal	Small nail
		1.21	White plastic	
		1.22	Silvery color metal	ferrule
		1.23	Silvery color metal	
		1.24	Copper color metal	
		1.25	Gray plastic	
		1.26	Copper color metal	Big pin
		1.27	Silvery color metal	
		1.28	White plastic	
		1.29	Yellow plastic	
		1.30	Transparent plastic	
		1.31	Black plastic cable jacket	
		1.32	Silvery color metal wire	
5	5188-3	1.33	Black plastic cable jacket w/ white printing	
		2.1	Silvery color metal (jack)	Loap
		2.2	Black plastic	
		2.3	Silvery color metal	
		2.4	Transparent plastic	
		2.5	Silvery color metal pin	
		2.6	Black plastic	Sleeve
		2.7	Black plastic	
		2.8	White plastic cable jacket	
		2.9	Red plastic cable jacket	
		2.10	Yellow plastic cable jacket	
		2.11	Green plastic cable jacket	
		2.12	Blue plastic cable jacket	
		2.13	Orange plastic cable jacket	
		2.14	Black plastic cable jacket	
		2.15	Silvery color metal	Screw
		2.16	Brown plastic cable jacket	
		2.17	White paper	
		2.18	White plastic cable jacket	
		2.19	Silvery color metal	Screw
		2.20	Screw w/ black coating	
		2.21	Silvery color metal	
		2.22	Multi-color metal w/ electric plated coating	Screw, metal block

No.	Part Name	Seq. No.	Sample Description	Noted (model/ size)
		2.23	Label	
		2.24	Black plastic	
		2.25	Black plastic	咪头
		2.26	Silvery color metal	
		2.27	Silvery color metal	
		2.28	White plastic w/ black printing	Key-press
		2.29	Silvery color metal	PCB
		2.30	Silvery color metal pin	
		2.31	Black plastic	
		2.32	Copper color metal chip	
		2.33	Black plastic body	IC (EM78P565AM)
		2.34	Black plastic	Key-press
		2.35	Silvery color metal	
		2.36	White plastic	
		2.37	Copper color metal pin	
		2.38	Black plastic body	IC (32.768K)
		2.39	Silvery color metal pin	咪头
		2.40	White rubber	
		2.41	Black mucilage glue	
		2.42	White plastic	
		2.43	Silvery color metal	
		2.44	Audion (K596)	
		2.45	PCB board	
		2.46	Black body	IC (733 CCA 54G)
		2.47	Solder	
		2.48	PCB (绿油、铜箔、贴片电阻、底材)	
6	5188-7	1.6	Silvery color metal	
7	5188-2	1.7	Black plastic	
		1.8	Silvery color metal	

**2: TEST RESULT:**

NO.	Part Name	Seq No.	Results				
			Pb	Cd	Hg	Cr	Br
1	5188-1 (车载台)	1.1	BL	BL	BL	BL	BL
		1.2	BL	BL	BL	BL	BL
		1.3	BL	BL	BL	BL	BL
		1.4	BL	BL	BL	BL	BL
		1.5	BL	BL	BL	BL	BL
		1.6	BL	BL	BL	BL	BL
		1.7	BL	BL	BL	BL	BL
		1.8	BL	BL	BL	BL	BL
		1.9	BL	BL	BL	BL	BL
		1.1	BL	BL	BL	BL	BL
		1.11	BL	BL	BL	BL	BL
		1.12	BL	BL	BL	BL	BL
		1.13	BL	BL	BL	BL	BL
		1.14	BL	BL	BL	BL	BL
		1.15	BL	BL	BL	BL	BL
		1.16	BL	BL	BL	BL	BL
		1.17	BL	BL	BL	BL	BL
		1.18	BL	BL	BL	BL	BL
		1.19	BL	BL	BL	BL	BL
		1.20	BL	BL	BL	BL	BL
		1.21	BL	BL	BL	BL	BL
		1.22	BL	BL	BL	BL	BL
		1.23	BL	BL	BL	BL	BL
		1.24	BL	BL	BL	BL	BL
		1.25	BL	BL	BL	BL	BL
		1.26	BL	BL	BL	BL	BL
		1.27	BL	BL	BL	BL	BL
		1.28	BL	BL	BL	BL	BL
		1.29	BL	BL	BL	BL	BL
		1.30	BL	BL	BL	BL	BL
		1.31	BL	BL	BL	BL	BL
		1.32	BL	BL	BL	BL	BL
		1.33	BL	BL	BL	BL	BL
		1.34	BL	BL	BL	BL	BL
		1.35	BL	BL	BL	BL	BL
		1.36	BL	BL	BL	BL	BL
		1.37	BL	BL	BL	BL	BL

NO.	Part Name	Seq No.	Results				
			Pb	Cd	Hg	Cr	Br
		1.38	BL	BL	BL	BL	BL
		1.39	BL	BL	BL	BL	BL
		1.4	BL	BL	BL	BL	BL
		1.41	BL	BL	BL	BL	BL
		2.1	BL	BL	BL	BL	BL
		2.2	BL	BL	BL	BL	BL
		2.3	BL	BL	BL	BL	BL
		2.4	BL	BL	BL	BL	BL
		2.5	BL	BL	BL	BL	BL
		2.6	BL	BL	BL	BL	BL
		2.7	BL	BL	BL	BL	BL
		2.8	BL	BL	BL	BL	BL
		2.9	BL	BL	BL	BL	BL
		2.1	BL	BL	BL	BL	BL
		2.11	BL	BL	BL	BL	BL
		2.12	BL	BL	BL	BL	BL
		2.13	BL	BL	BL	BL	BL
		2.14	BL	BL	BL	BL	BL
		2.15	BL	BL	BL	BL	BL
		2.16	BL	BL	BL	BL	BL
		2.17	BL	BL	BL	BL	BL
		2.18	BL	BL	BL	BL	BL
		2.19	BL	BL	BL	BL	BL
		2.20	BL	BL	BL	BL	BL
		2.21	BL	BL	BL	BL	BL
		2.22	BL	BL	BL	BL	BL
		2.23	BL	BL	BL	BL	BL
		2.24	BL	BL	BL	BL	BL
		2.25	BL	BL	BL	BL	BL
		2.26	BL	BL	BL	BL	BL
		2.27	BL	BL	BL	BL	BL
		2.28	BL	BL	BL	BL	BL
		2.29	BL	BL	BL	BL	BL
		2.30	BL	BL	BL	BL	BL
		2.31	BL	BL	BL	BL	BL
		2.32	BL	BL	BL	BL	BL
		2.33	BL	BL	BL	BL	BL
		2.34	BL	BL	BL	BL	BL
		3.1	BL	BL	BL	BL	BL

NO.	Part Name	Seq No.	Results				
			Pb	Cd	Hg	Cr	Br
		3.2	BL	BL	BL	BL	BL
		3.3	BL	BL	BL	BL	BL
		3.4	BL	BL	BL	BL	BL
		3.5	BL	BL	BL	BL	BL
		3.6	BL	BL	BL	BL	BL
		3.7	BL	BL	BL	BL	BL
		3.8	BL	BL	BL	BL	BL
		3.9	BL	BL	BL	BL	BL
		3.10	BL	BL	BL	BL	BL
		3.11	BL	BL	BL	BL	BL
		3.12	BL	BL	BL	BL	BL
		3.13	BL	BL	BL	BL	BL
		3.14	BL	BL	BL	BL	BL
		3.15	BL	BL	BL	BL	BL
		4.1	BL	BL	BL	BL	BL
		4.2	BL	BL	BL	BL	BL
		4.3	BL	BL	BL	BL	BL
		4.4	BL	BL	BL	BL	BL
		4.5	BL	BL	BL	BL	BL
		4.6	BL	BL	BL	BL	BL
		4.7	BL	BL	BL	BL	BL
		4.8	BL	BL	BL	BL	BL
		4.9	BL	BL	BL	BL	BL
		4.1	BL	BL	BL	BL	BL
		4.11	BL	BL	BL	BL	BL
		4.12	BL	BL	BL	BL	BL
		4.13	BL	BL	BL	BL	BL
		4.14	BL	BL	BL	BL	BL
		4.15	BL	BL	BL	BL	BL
		4.16	BL	BL	BL	BL	BL
		4.17	BL	BL	BL	BL	BL
		4.18	BL	BL	BL	BL	BL
		4.19	BL	BL	BL	BL	BL
		5.1	BL	BL	BL	BL	BL
		5.2	BL	BL	BL	BL	BL
		5.3	BL	BL	BL	BL	BL
		5.4	BL	BL	BL	BL	BL
		5.5	BL	BL	BL	BL	BL
		5.6	BL	BL	BL	BL	BL

NO.	Part Name	Seq No.	Results				
			Pb	Cd	Hg	Cr	Br
		5.7	BL	BL	BL	BL	BL
		5.8	BL	BL	BL	BL	BL
		5.9	BL	BL	BL	BL	BL
		5.1	BL	BL	BL	BL	BL
		5.11	BL	BL	BL	BL	BL
		5.12	BL	BL	BL	BL	BL
		5.13	BL	BL	BL	BL	BL
		5.14	BL	BL	BL	BL	BL
		5.15	BL	BL	BL	BL	BL
		5.16	BL	BL	BL	BL	BL
		5.17	BL	BL	BL	BL	BL
		5.18	BL	BL	BL	BL	BL
		5.19	BL	BL	BL	BL	BL
		5.20	BL	BL	BL	BL	BL
		5.21	BL	BL	BL	BL	BL
		5.22	BL	BL	BL	BL	BL
		5.23	BL	BL	BL	BL	BL
		5.24	BL	BL	BL	BL	BL
		5.25	BL	BL	BL	BL	BL
		5.26	BL	BL	BL	BL	BL
		5.27	BL	BL	BL	BL	BL
		5.28	BL	BL	BL	BL	BL
		5.29	BL	BL	BL	BL	BL
		5.3	BL	BL	BL	BL	BL
		5.31	BL	BL	BL	BL	BL
		5.32	BL	BL	BL	BL	BL
		5.33	BL	BL	BL	BL	BL
		5.34	BL	BL	BL	BL	BL
		5.35	BL	BL	BL	BL	BL
		5.36	BL	BL	BL	BL	BL
		5.37	BL	BL	BL	BL	BL
		5.38	BL	BL	BL	BL	BL
		5.39	BL	BL	BL	BL	BL
		5.40	BL	BL	BL	BL	BL
		5.41	BL	BL	BL	BL	BL
		5.42	BL	BL	BL	BL	BL
		5.43	BL	BL	BL	BL	BL
		5.44	BL	BL	BL	BL	BL
		5.45	BL	BL	BL	BL	BL

NO.	Part Name	Seq No.	Results				
			Pb	Cd	Hg	Cr	Br
		5.46	BL	BL	BL	BL	BL
		5.47	BL	BL	BL	BL	BL
		5.48	BL	BL	BL	BL	BL
		5.49	BL	BL	BL	BL	BL
		5.50	BL	BL	BL	BL	BL
		5.51	BL	BL	BL	BL	BL
		5.52	BL	BL	BL	BL	BL
		5.53	BL	BL	BL	BL	BL
		5.54	BL	BL	BL	BL	BL
		5.55	BL	BL	BL	BL	BL
		5.56	BL	BL	BL	BL	BL
		5.57	BL	BL	BL	BL	BL
		5.58	BL	BL	BL	BL	BL
		5.59	BL	BL	BL	BL	BL
		5.6	BL	BL	BL	BL	BL
		5.61	BL	BL	BL	BL	BL
		5.62	BL	BL	BL	BL	BL
		5.63	BL	BL	BL	BL	BL
		5.64	BL	BL	BL	BL	BL
		5.65	BL	BL	BL	BL	BL
		5.66	BL	BL	BL	BL	BL
		5.67	BL	BL	BL	BL	BL
		5.68	BL	BL	BL	BL	BL
		5.69	BL	BL	BL	BL	BL
2	5188-4	1.1	BL	BL	BL	BL	BL
		1.2	BL	BL	BL	BL	BL
		1.3	BL	BL	BL	BL	BL
		1.4	BL	BL	BL	BL	BL
		1.5	BL	BL	BL	BL	BL
3	5188-5	1.9	BL	BL	BL	BL	BL
		1.10	BL	BL	BL	BL	BL
		1.11	BL	BL	BL	BL	BL
		1.12	BL	BL	BL	BL	BL
		1.13	BL	BL	BL	BL	BL
		1.14	BL	BL	BL	BL	BL
		1.15	BL	BL	BL	BL	BL
4	5188-6	1.16	BL	BL	BL	BL	BL
		1.17	BL	BL	BL	BL	BL
		1.18	BL	BL	BL	BL	BL

NO.	Part Name	Seq No.	Results				
			Pb	Cd	Hg	Cr	Br
		1.19	BL	BL	BL	BL	BL
		1.2	BL	BL	BL	BL	BL
		1.21	BL	BL	BL	BL	BL
		1.17	BL	BL	BL	BL	BL
		1.18	BL	BL	BL	BL	BL
		1.19	BL	BL	BL	BL	BL
		1.2	BL	BL	BL	BL	BL
		1.21	BL	BL	BL	BL	BL
		1.22	BL	BL	BL	BL	BL
		1.23	BL	BL	BL	BL	BL
		1.24	BL	BL	BL	BL	BL
		1.25	BL	BL	BL	BL	BL
		1.26	BL	BL	BL	BL	BL
		1.27	BL	BL	BL	BL	BL
		1.28	BL	BL	BL	BL	BL
		1.29	BL	BL	BL	BL	BL
		1.3	BL	BL	BL	BL	BL
		1.31	BL	BL	BL	BL	BL
		1.32	BL	BL	BL	BL	BL
		1.33	BL	BL	BL	BL	BL
5	5188-3	2.1	BL	BL	BL	BL	BL
		2.2	BL	BL	BL	BL	BL
		2.3	BL	BL	BL	BL	BL
		2.4	BL	BL	BL	BL	BL
		2.5	BL	BL	BL	BL	BL
		2.6	BL	BL	BL	BL	BL
		2.7	BL	BL	BL	BL	BL
		2.8	BL	BL	BL	BL	BL
		2.9	BL	BL	BL	BL	BL
		2.10	BL	BL	BL	BL	BL
		2.11	BL	BL	BL	BL	BL
		2.12	BL	BL	BL	BL	BL
		2.13	BL	BL	BL	BL	BL
		2.14	BL	BL	BL	BL	BL
		2.15	BL	BL	BL	BL	BL
		2.16	BL	BL	BL	BL	BL
		2.17	BL	BL	BL	BL	BL
		2.18	BL	BL	BL	BL	BL
		2.19	BL	BL	BL	BL	BL

NO.	Part Name	Seq No.	Results				
			Pb	Cd	Hg	Cr	Br
		2.20	BL	BL	BL	BL	BL
		2.21	BL	BL	BL	BL	BL
		2.22	BL	BL	BL	BL	BL
		2.23	BL	BL	BL	BL	BL
		2.24	BL	BL	BL	BL	BL
		2.25	BL	BL	BL	BL	BL
		2.26	BL	BL	BL	BL	BL
		2.27	BL	BL	BL	BL	BL
		2.28	BL	BL	BL	BL	BL
		2.29	BL	BL	BL	BL	BL
		2.3	BL	BL	BL	BL	BL
		2.31	BL	BL	BL	BL	BL
		2.32	BL	BL	BL	BL	BL
		2.33	BL	BL	BL	BL	BL
		2.34	BL	BL	BL	BL	BL
		2.35	BL	BL	BL	BL	BL
		2.36	BL	BL	BL	BL	BL
		2.37	BL	BL	BL	BL	BL
		2.38	BL	BL	BL	BL	BL
		2.39	BL	BL	BL	BL	BL
		2.4	BL	BL	BL	BL	BL
		2.41	BL	BL	BL	BL	BL
		2.42	BL	BL	BL	BL	BL
		2.43	BL	BL	BL	BL	BL
		2.44	BL	BL	BL	BL	BL
		2.45	BL	BL	BL	BL	BL
		2.46	BL	BL	BL	BL	BL
		2.47	BL	BL	BL	BL	BL
		2.48	BL	BL	BL	BL	BL
6	5188-7	1.6	BL	BL	BL	BL	BL
7	5188-2	1.7	BL	BL	BL	BL	BL
		1.8	BL	BL	BL	BL	BL

Note : BL = Below Limit by XRF analysis

OL = Over Limit by XRF analysis

X = Inconclusive (questionable, need further chemical analysis)

# = Insufficient sample for screening test

--- = Not Conducted

Remark:

- i Results were obtained by XRF for primary screening, and further chemical testing by ICP(for Cd, Pb, Hg), UV-VIS (for CrVI) and GCMS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321 Ed. 1.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70-3\sigma < X < 130+3\sigma \leq OL$	$BL \leq 70-3\sigma < X < 130+3\sigma \leq OL$	$LOD < X < 250+3\sigma \leq OL$
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	$BL \leq 300-3\sigma < X$		$BL \leq 250-3\sigma < X$

BL	=	below limit
OL	=	over limit
X	=	Inconclusive
LOD	=	Limit of Detection
	=	Not Conducted

- ii The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC:

<b>RoHS Restricted Substances</b>	<b>Maximum Concentration Value (mg/kg)(by weight in homogenous materials)</b>
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr VI)	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

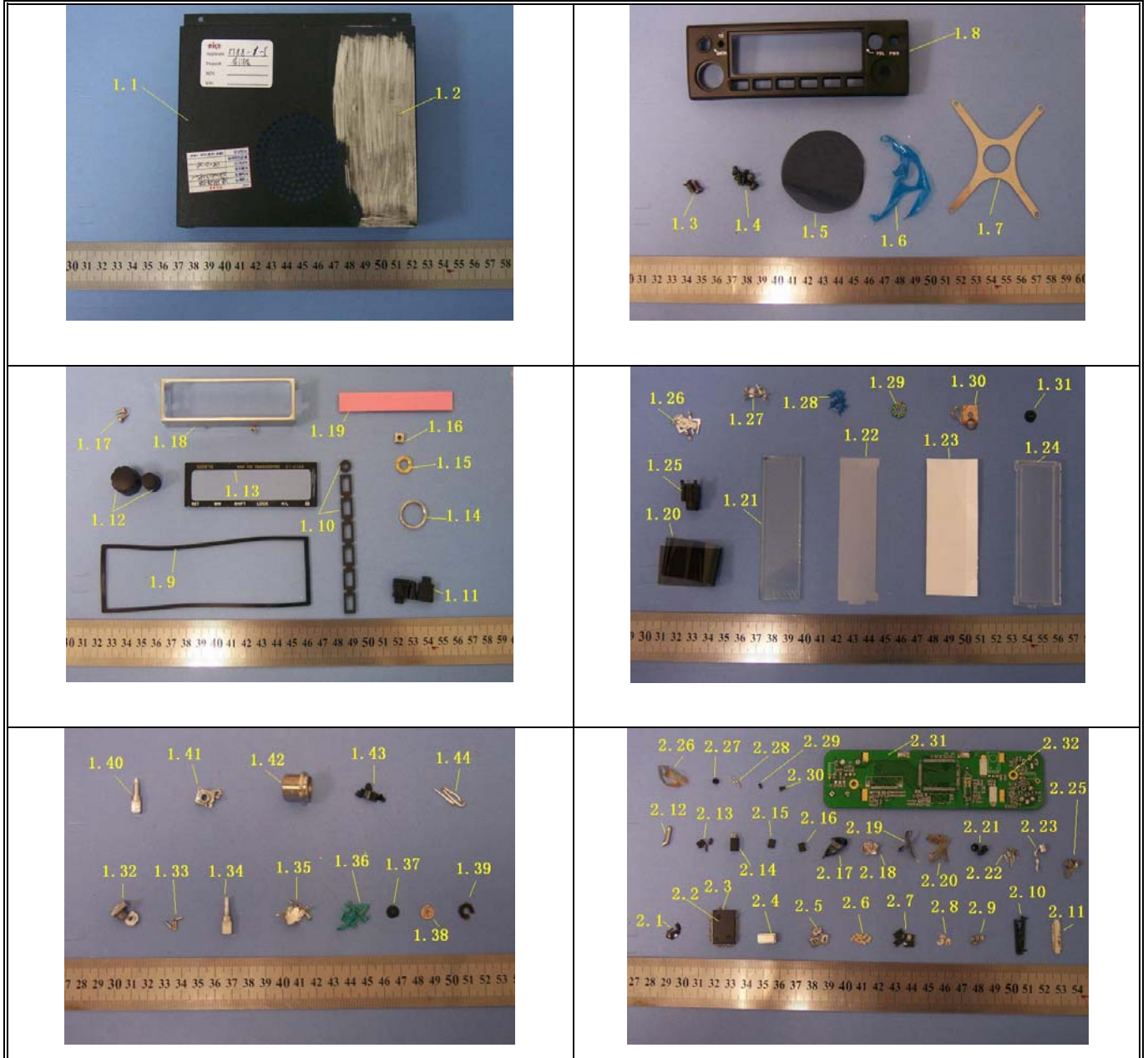
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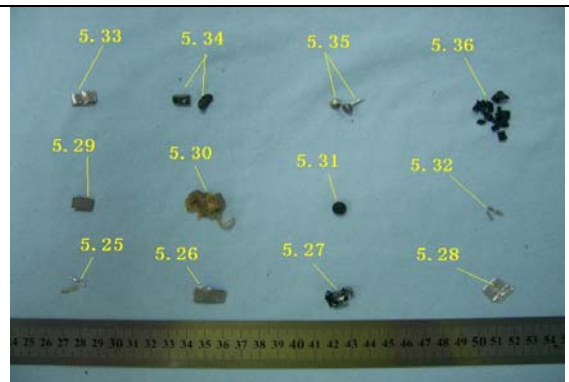
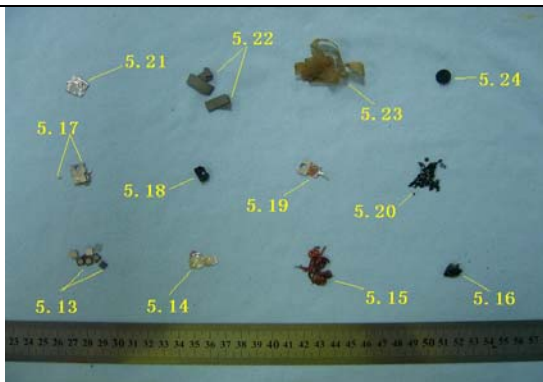
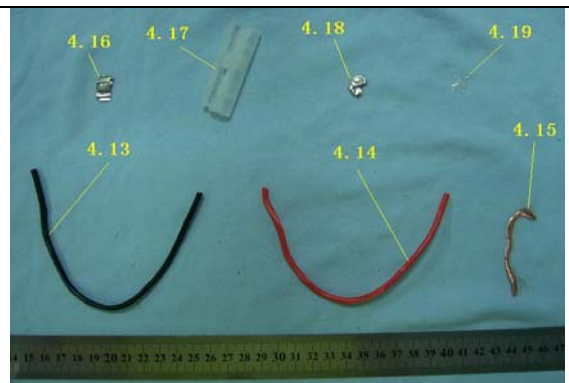
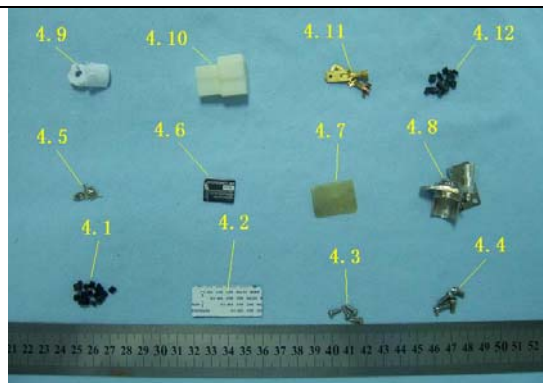
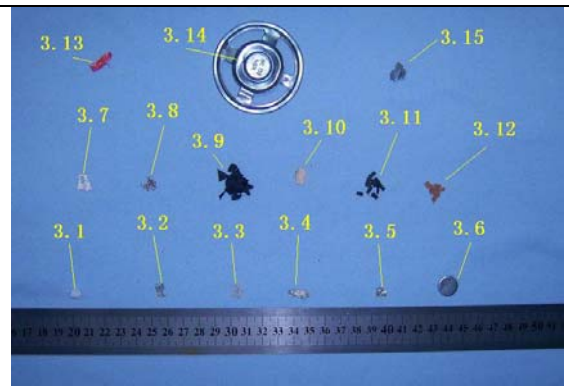
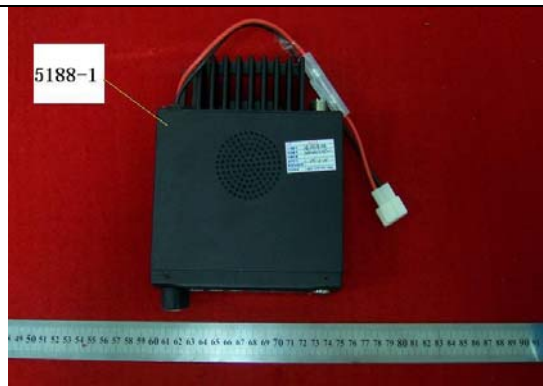
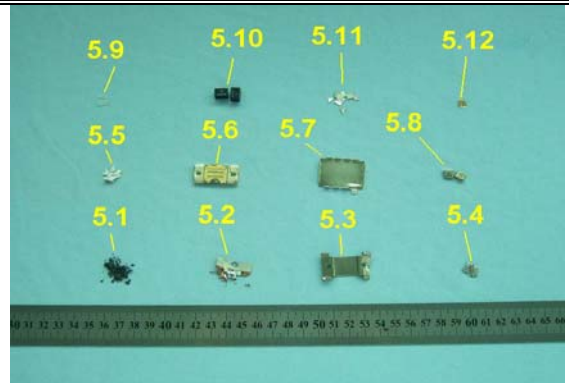
- iv As requested by applicant, only components shown in this report were screened by XRF spectroscopy for 2002/95/EC, other components were not screened included in this report. v Photo appendix is included.

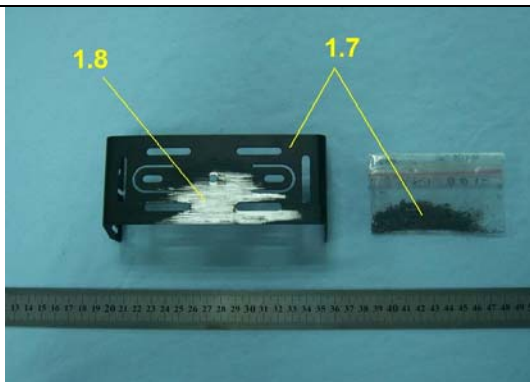
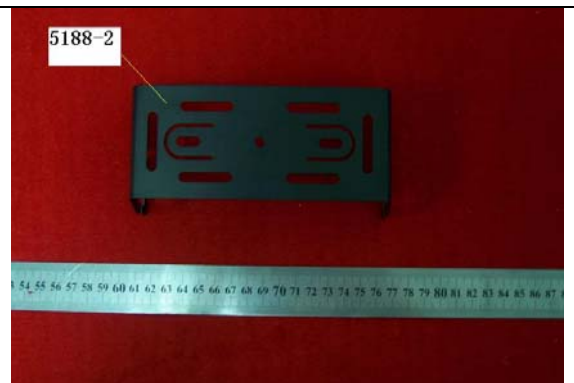
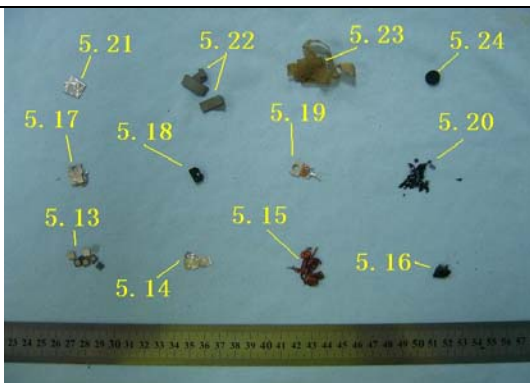
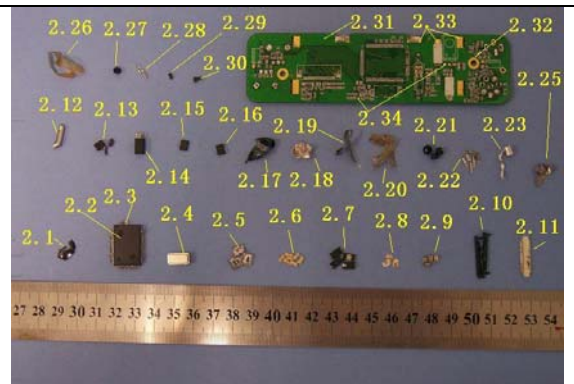
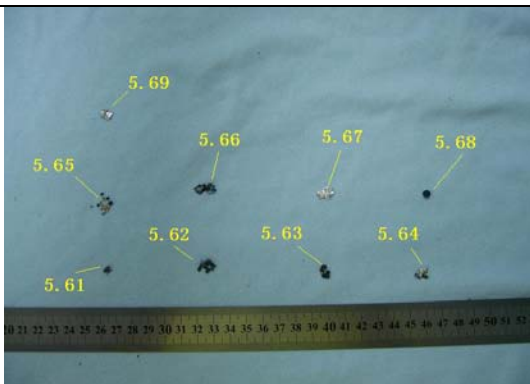
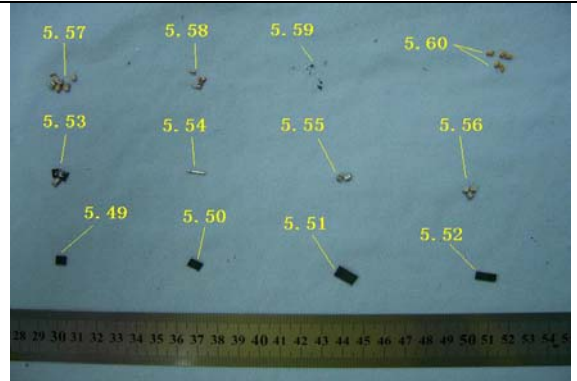
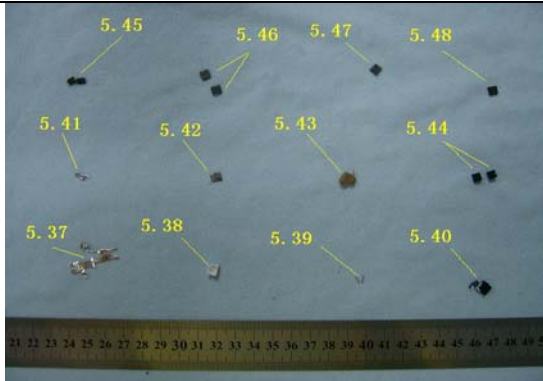
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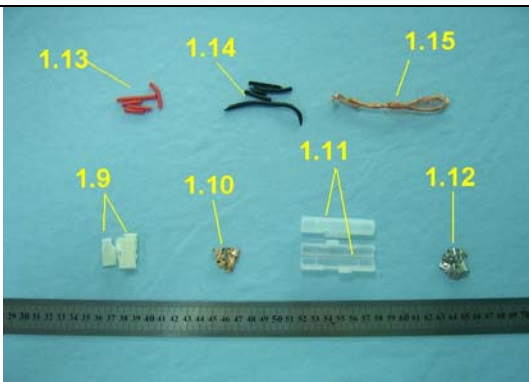
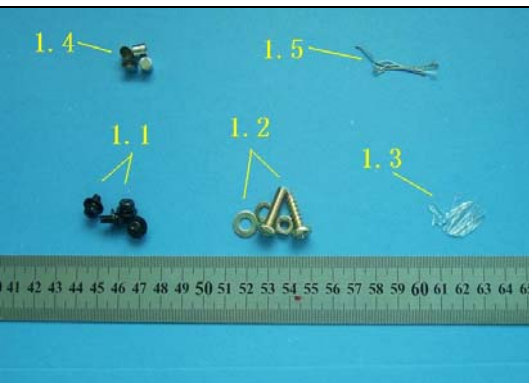
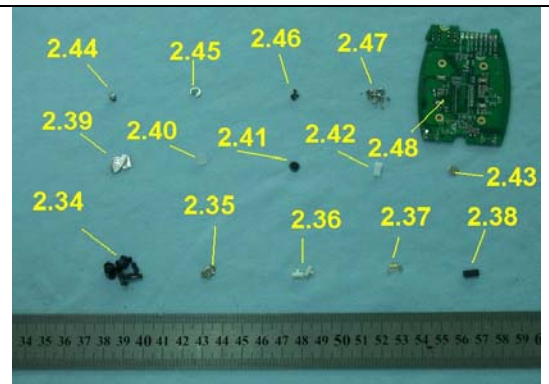
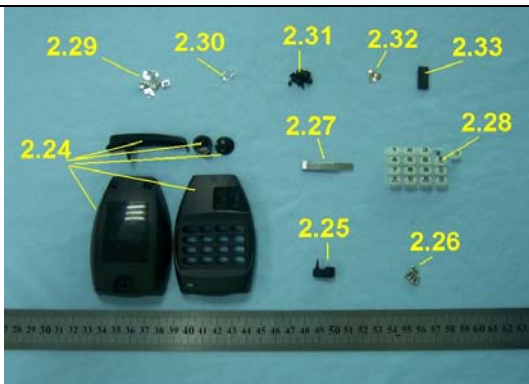
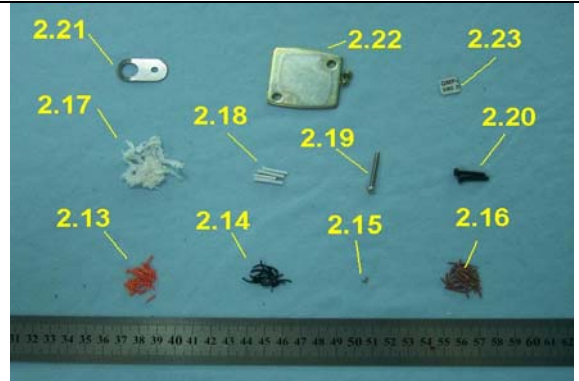
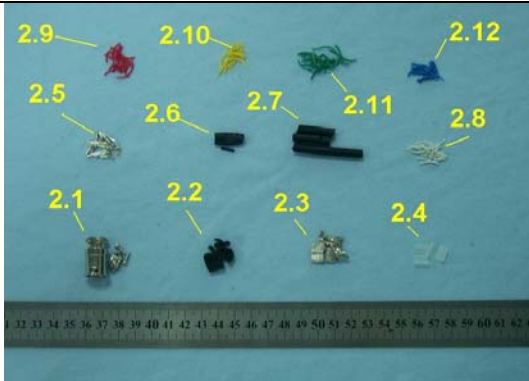
This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF screening report will differ based on various factors, including 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.

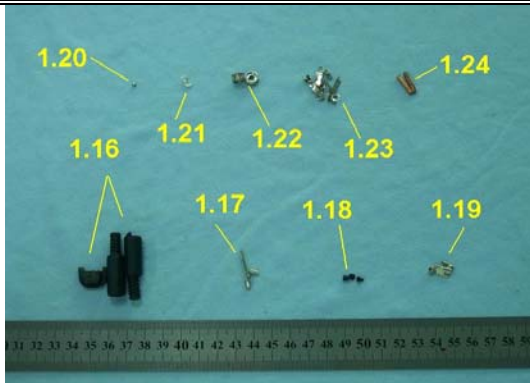
### 3: PHOTOS of SAMPLE:











RoHS Exemptions in force:

- 1: Mercury in compact fluorescent lamps not exceeding 5 mg per lamp.
- 2: Mercury in straight fluorescent lamps for general purposes not exceeding\_\_halophosphate 10 mg\_\_triphosphate with normal lifetime 5 mg\_\_triphosphate with long lifetime 8 mg
- 3: Mercury in straight fluorescent lamps for special purposes.
- 4: Mercury in other lamps not specifically mentioned in this Annex.
- 5: Lead in glass of cathode ray tubes, electronic components and fluorescent tub
- 6: Lead as an alloying element in steel containing up to 0.35% lead by weight, aluminium containing up to 0.4% lead by weight and as a copper alloy containing up to 4% lead by weight.
- 7: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead),
  - lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission as well as network management for telecommunications,
  - lead in electronic ceramic parts (e.g. piezoelectronic devices).
- 8: Cadmium and its compounds in electrical contacts and cadmium plating except for applications banned under Directive 91/338/EEC (\*) amending Directive 76/769/EEC (\*\*) relating to restrictions on the marketing and use of certain dangerous substances and preparations.
- 9: Hexavalent chromium as an anti-corrosion of the carbon steel cooling system in absorption refrigerators. 9a DecaBDE in polymeric applications 9b Lead in lead-bronze bearing shells and bushes
- 10: Within the procedure referred to in Article 7(2), the Commission shall evaluate the applications for:
  - Deca BDE,
  - mercury in straight fluorescent lamps for special purposes,
  - lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching,signalling, transmission as well as network management for telecommunications (with a view to setting a specific time limit for this exemption), and
  - light bulbs, as a matter of priority in order to establish as soon as possible whether these items are to be amended accordingly.
- 11: Lead used in compliant pin connector systems.
- 12: Lead as a coating material for the thermal conduction module c-ring.

13: Lead and cadmium in optical and filter glass.

14: Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight.

15: Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages.

16: Lead in linear incandescent lamps with silicate coated tubes

17: Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications

18: Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphorus such as BSP ( $\text{BaSi}_2\text{O}_5\text{:Pb}$ ) as well as when used as speciality lamps for diazo-printing reprography, lithography, insect traps, photochemical and curing processes containing phosphorus such as SMS ( $(\text{Sr,Ba})_2\text{MgSi}_2\text{O}_7\text{:Pb}$ )

19: Lead with  $\text{PbBiSn-Hg}$  and  $\text{PbInSn-Hg}$  in specific compositions as main amalgam and with  $\text{PbSn-Hg}$  as auxiliary amalgam in very compact Energy Saving Lamps (ESL)

20: Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCD)

21: Lead and cadmium in printing inks for the application of enamels on borosilicate glass.

22: Lead as impurity in RIG (rare earth iron garnet) Faraday rotators used for fibre optic communications systems.

23: Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with  $\text{NiFe}$  lead frames and lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with copper lead frames.

24: Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors.

25: Lead oxide in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring as well as in print pastes.

26: Lead oxide in the glass envelope of Black Light Blue (BLB) lamps.

27: Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers.

28:Hexavalent chromium in corrosion preventive coatings of unpainted metal sheetings and fasteners used for corrosion protection and Electromagnetic Interference Shielding in equipment falling under category three of Directive 2002/96/EC (IT and telecommunications equipment). Exemption granted until 1 July 2007.

29:Lead bound in crystal glass as defined in Annex I (Categories 1,2,3, and 4) of Council Directive 69/493/EEC.

---- END OF REPORT----