

## Test Report No. : CE/2011/90780C Date : 2011/10/17 Page : 1 of 24

LELON ELECTRONICS CORP.  
(LELON ELECTRONICS (HUIZHOU) CO., LTD.)  
(LELON ELECTRONICS (SUZHOU) CO., LTD.)  
20, LANE 51, CHENGGONG RD., DALI DIST., TAICHUNG CITY, TAIWAN  
(TAIYANG INDUSTRIAL ZONE, BAIHUA TOWN, HUIDONG COUNTY, HUIZHOU CITY, GUANGDONG, CHINA)  
(1220, ZHONGSHAN NORTH RD., SONGLING TOWN, WUJIANG CITY, JIANGSU, CHINA)



The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : SMD ALUMINUM ELECTROLYTIC CAPACITORS  
Style/Item No. : CHIP TYPE  
Sample Receiving Date : 2011/09/05  
Testing Period : 2011/09/05 TO 2011/09/19 AND 2011/09/20 TO 2011/10/07

Test Result(s) : Please refer to next page(s).

\* This report is combined with reports of CE/2011/90703, CE/2011/90780 and CE/2011/90780B \*

  
  
Chenyu Kung / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory – Taipei

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## Test Result(s)

PART NAME No.1	: GRAY COLORED METAL (AL-FOIL) (CE/2011/90703 No.1)
PART NAME No.2	: SILVER COLORED METAL (AL-CASE) (CE/2011/90780 No.1)
PART NAME No.3	: MIXED ALL PARTS (LEAD WIRE) (CE/2011/90703 No.3)
PART NAME No.4	: BROWN PAPER (ELECTROLYTIC PAPER) (CE/2011/90703 No.4)
PART NAME No.5	: TRANSPARENT TAPE (ADHESIVE TAPE) (CE/2011/90703 No.5)
PART NAME No.6	: BLACK RUBBER (RUBBER -IIR) (CE/2011/90703 No.6)
PART NAME No.7	: BLACK PLASTIC (BASE) (CE/2011/90780 No.2)
PART NAME No.8	: BLACK INK (UV INK) (DRY BASE) (CE/2011/90780B)
PART NAME No.9	: TRANSPARENT-LIGHT YELLOW LIQUID (ELECTROLYTE -GBL) (CE/2011/90703 No.16)

Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	23	n.d.	n.d.	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Hexavalent Chromium Cr(VI)	**	With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#	Negative	Negative	---	---	---
	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	---	---	n.d.	n.d.	n.d.
Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	---	n.d.	---	---	n.d.
Polychlorinated Terphenyls (PCTs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	---	n.d.	---	---	n.d.
Polychlorinated Naphthalene (PCNs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	---	n.d.	---	---	n.d.
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	With reference to DIN 53313. Analysis was performed by GC/MS.	10	---	n.d.	---	---	n.d.

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	%	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.01	---	n.d.	---	---	n.d.
Hexabromocyclododecane (HBCDD) (CAS No.: 25637-99-4)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	---	n.d.	---	---	n.d.
<b>Organic-tin compounds</b>								
Tributyl Tin (TBT) (CAS No.: 688-73-3)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	---	n.d.	---	---	---
Triphenyl Tin (TphT) (CAS No.: 668-34-8)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	---	n.d.	---	---	---
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	---	n.d.	---	---	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)			0.003	---	n.d.	---	---	n.d.
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0)			0.01	---	n.d.	---	---	n.d.
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0)			0.01	---	n.d.	---	---	n.d.
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)			0.003	---	n.d.	---	---	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)			0.003	---	n.d.	---	---	n.d.
DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)			0.003	---	n.d.	---	---	n.d.
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)			0.003	---	n.d.	---	---	n.d.

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
<b>Halogen</b>								
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	---	n.d.	---	n.d.	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)			50	---	n.d.	---	n.d.	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)			50	---	n.d.	---	n.d.	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	---	n.d.	---	n.d.	n.d.
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	---	n.d.	---	n.d.	n.d.
Monobromobiphenyl			5	---	n.d.	---	n.d.	n.d.
Dibromobiphenyl			5	---	n.d.	---	n.d.	n.d.
Tribromobiphenyl			5	---	n.d.	---	n.d.	n.d.
Tetrabromobiphenyl			5	---	n.d.	---	n.d.	n.d.
Pentabromobiphenyl			5	---	n.d.	---	n.d.	n.d.
Hexabromobiphenyl			5	---	n.d.	---	n.d.	n.d.
Heptabromobiphenyl			5	---	n.d.	---	n.d.	n.d.
Octabromobiphenyl			5	---	n.d.	---	n.d.	n.d.
Nonabromobiphenyl			5	---	n.d.	---	n.d.	n.d.
Decabromobiphenyl			5	---	n.d.	---	n.d.	n.d.
<b>Sum of PBDEs</b>			-	---	n.d.	---	n.d.	n.d.
Monobromodiphenyl ether			5	---	n.d.	---	n.d.	n.d.
Dibromodiphenyl ether			5	---	n.d.	---	n.d.	n.d.
Tribromodiphenyl ether			5	---	n.d.	---	n.d.	n.d.
Tetrabromodiphenyl ether			5	---	n.d.	---	n.d.	n.d.
Pentabromodiphenyl ether			5	---	n.d.	---	n.d.	n.d.
Hexabromodiphenyl ether			5	---	n.d.	---	n.d.	n.d.
Heptabromodiphenyl ether			5	---	n.d.	---	n.d.	n.d.
Octabromodiphenyl ether			5	---	n.d.	---	n.d.	n.d.
Nonabromodiphenyl ether	5	---	n.d.	---	n.d.	n.d.		
Decabromodiphenyl ether	5	---	n.d.	---	n.d.	n.d.		

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
<b>AZO</b>								
1): 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
2): BENZIDINE (CAS No.: 92-87-5)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
3): 4-CHLORO-O-TOLUIDINE (CAS No.: 95-69-2)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
4): 2-NAPHTHYLAMINE (CAS No.: 91-59-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
5): O-AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
6): 2-AMINO-4-NITROTOLUENE (CAS No.: 99-55-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
7): P-CHLOROANILINE (CAS No.: 106-47-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
8): 2,4-DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
9): 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
10): 3,3'-DICHLOROBENZIDINE (CAS No.: 91-94-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
11): 3,3'-DIMETHOXYBENZIDINE (CAS No.: 119-90-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
12): 3,3'-DIMETHYLBENZIDINE (CAS No.: 119-93-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.

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Test Item (s):	Unit	Method	MDL	Result				
				No.1	No.2	No.3	No.4	No.5
13): 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
14): P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 120-71-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
15): 4,4'-METHYLENE-BIS- (2-CHLOROANILINE) (CAS No.: 101-14-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
16): 4,4'-OXYDIANILINE (CAS No.: 101-80-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
17): 4,4'-THIODIANILINE (CAS No.: 139-65-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
18): O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
19): 2,4-TOLUYLENEDIAMINE (CAS No.: 95-80-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
20): 2,4,5-TRIMETHYLANILINE (CAS No.: 137-17-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
21): O-ANISIDINE (CAS No.: 90-04-0)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
22): P-AMINOAZOBENZENE (CAS No.: 60-09-3)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
23): 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.
24): 2,6-XYLIDINE (CAS No.: 87-62-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	---	n.d.	---	---	n.d.

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Test Item (s):	Unit	Method	MDL	Result			
				No.6	No.7	No.8	No.9
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.	n.d.
Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	n.d.	n.d.	n.d.
Polychlorinated Terphenyls (PCTs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	n.d.	n.d.	n.d.
Polychlorinated Naphthalene (PCNs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	n.d.	n.d.	n.d.
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	%	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.01	n.d.	n.d.	n.d.	n.d.
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	With reference to DIN 53313. Analysis was performed by GC/MS.	10	n.d.	n.d.	n.d.	---
Hexabromocyclododecane (HBCDD) (CAS No.: 25637-99-4)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	n.d.	n.d.	---
<b>Organic-tin compounds</b>							
Tributyl Tin (TBT) (CAS No.: 688-73-3)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	---	---	---	n.d.
Triphenyl Tin (TphT) (CAS No.: 668-34-8)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	---	---	---	n.d.

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# Test Report

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LELON ELECTRONICS CORP.  
 (LELON ELECTRONICS (HUIZHOU) CO., LTD.)  
 (LELON ELECTRONICS (SUZHOU) CO., LTD.)  
 20, LANE 51, CHENGGONG RD., DALI DIST., TAICHUNG CITY, TAIWAN  
 (TAIYANG INDUSTRIAL ZONE, BAIHUA TOWN, HUIDONG COUNTY, HUIZHOU CITY, GUANGDONG, CHINA)  
 (1220, ZHONGSHAN NORTH RD., SONGLING TOWN, WUJIANG CITY, JIANGSU, CHINA)

Test Item (s):	Unit	Method	MDL	Result			
				No.6	No.7	No.8	No.9
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	n.d.	n.d.	---
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%		0.003	n.d.	n.d.	n.d.	---
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0)	%		0.01	n.d.	n.d.	n.d.	---
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0)	%		0.01	n.d.	n.d.	n.d.	---
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%		0.003	n.d.	n.d.	n.d.	---
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%		0.003	n.d.	n.d.	n.d.	---
DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	%		0.003	n.d.	n.d.	n.d.	---
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	%		0.003	n.d.	n.d.	n.d.	---
<b>Halogen</b>							
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	1690	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)			50	n.d.	n.d.	316	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)			50	n.d.	n.d.	n.d.	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.	n.d.	n.d.	n.d.

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Test Item (s):	Unit	Method	MDL	Result			
				No.6	No.7	No.8	No.9
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.	n.d.
Monobromobiphenyl			5	n.d.	n.d.	n.d.	n.d.
Dibromobiphenyl			5	n.d.	n.d.	n.d.	n.d.
Tribromobiphenyl			5	n.d.	n.d.	n.d.	n.d.
Tetrabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.
Pentabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.
Hexabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.
Heptabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.
Octabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.
Nonabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.
Decabromobiphenyl			5	n.d.	n.d.	n.d.	n.d.
<b>Sum of PBDEs</b>			-	n.d.	n.d.	n.d.	n.d.
Monobromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.
Dibromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.
Tribromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.
Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.
Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.
Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.
Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.
Octabromodiphenyl ether			5	n.d.	n.d.	n.d.	n.d.
Nonabromodiphenyl ether	5	n.d.	n.d.	n.d.	n.d.		
Decabromodiphenyl ether	5	n.d.	n.d.	n.d.	n.d.		
<b>AZO</b>							
1): 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
2): BENZIDINE (CAS No.: 92-87-5)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
3): 4-CHLORO-O-TOLUIDINE (CAS No.: 95-69-2)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
4): 2-NAPHTHYLAMINE (CAS No.: 91-59-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---

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# Test Report

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LELON ELECTRONICS CORP.

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Test Item (s):	Unit	Method	MDL	Result			
				No.6	No.7	No.8	No.9
5): O-AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
6): 2-AMINO-4-NITROTOLUENE (CAS No.: 99-55-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
7): P-CHLOROANILINE (CAS No.: 106-47-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
8): 2,4-DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
9): 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
10): 3,3'-DICHLOROBENZIDINE (CAS No.: 91-94-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
11): 3,3'-DIMETHOXYBENZIDINE (CAS No.: 119-90-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
12): 3,3'-DIMETHYLBENZIDINE (CAS No.: 119-93-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
13): 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
14): P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 120-71-8)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
15): 4,4'-METHYLENE-BIS- (2-CHLOROANILINE) (CAS No.: 101-14-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
16): 4,4'-OXYDIANILINE (CAS No.: 101-80-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---

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# Test Report

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Test Item (s):	Unit	Method	MDL	Result			
				No.6	No.7	No.8	No.9
17): 4,4'-THIODIANILINE (CAS No.: 139-65-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
18): O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
19): 2,4-TOLUYLENEDIAMINE (CAS No.: 95-80-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
20): 2,4,5-TRIMETHYLANILINE (CAS No.: 137-17-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
21): O-ANISIDINE (CAS No.: 90-04-0)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
22): P-AMINOAZOBENZENE (CAS No.: 60-09-3)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
23): 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---
24): 2,6-XYLIDINE (CAS No.: 87-62-7)	mg/kg	With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	n.d.	n.d.	---

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## Test Report

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### Note :

1. mg/kg = ppm : 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. " --- " = Not Conducted
6. \*\* = Qualitative analysis (No Unit)
7. # = a. Positive means the presence of CrVI on the tested areas  
b. Negative means the absence of CrVI on the tested areas  
The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> tested areas.
8. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.
9. This report supersedes the previous document bearing the test report number CE/2011/90780C which was issued on 2011/10/11.

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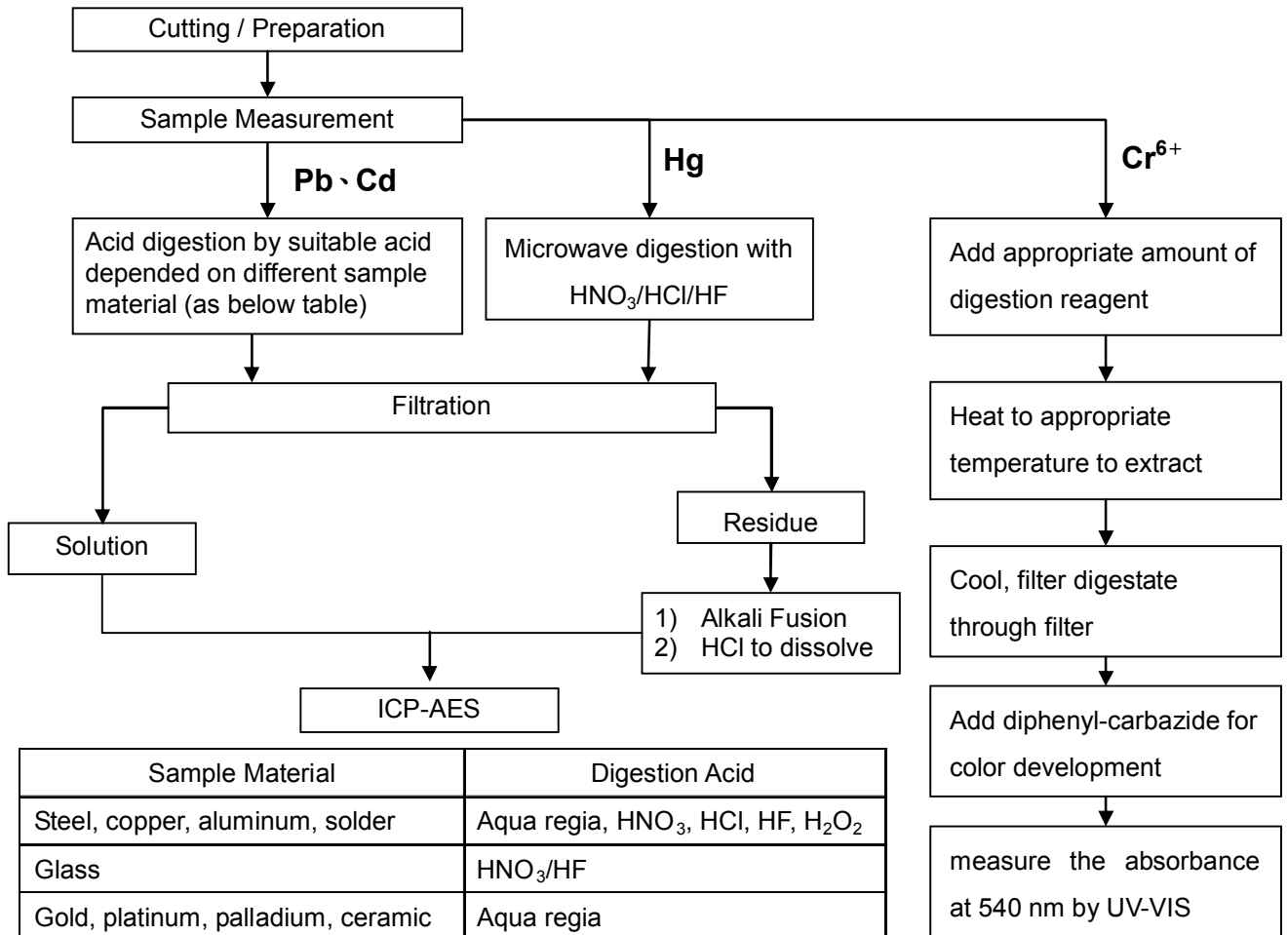
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

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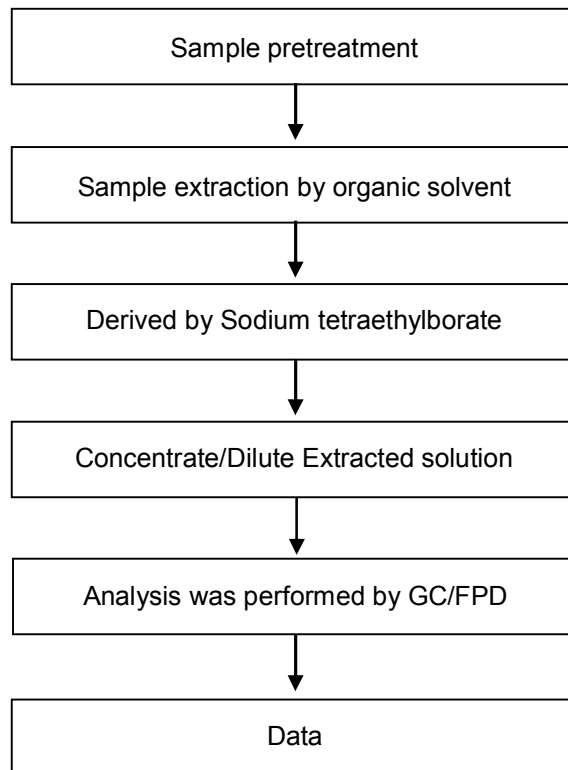
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### Analytical flow chart of Organic-Tin content

- Name of the person who made measurement: Ginny Chen
- Name of the person in charge of measurement: Troy Chang



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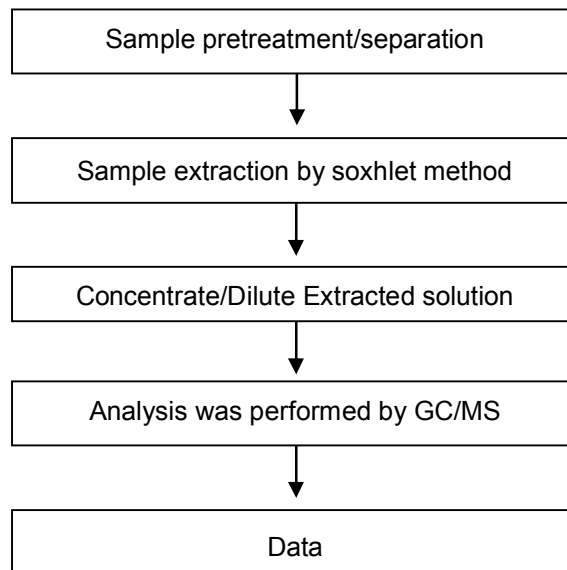
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### Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

### 【Test Items: Phthalate、Benzotriazole、HBCDD、NP、DBBT、Organic phosphorus compounds】



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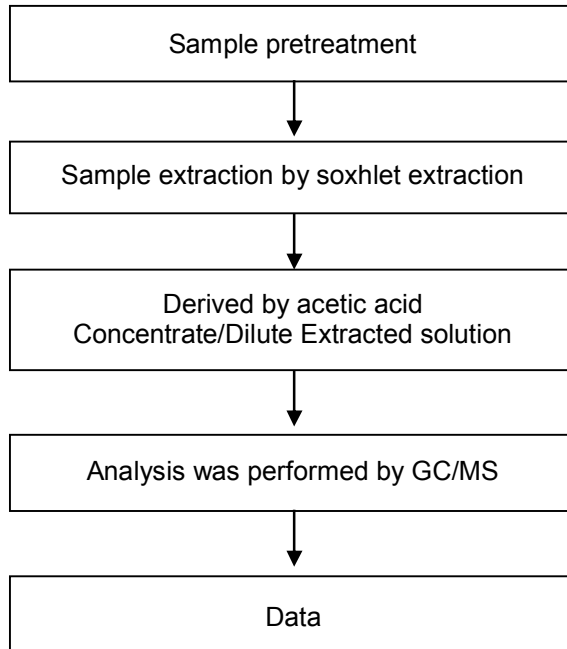
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### Analytical flow chart

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

#### 【 Test Items: TBBP-A 、 Bisphenol A 】



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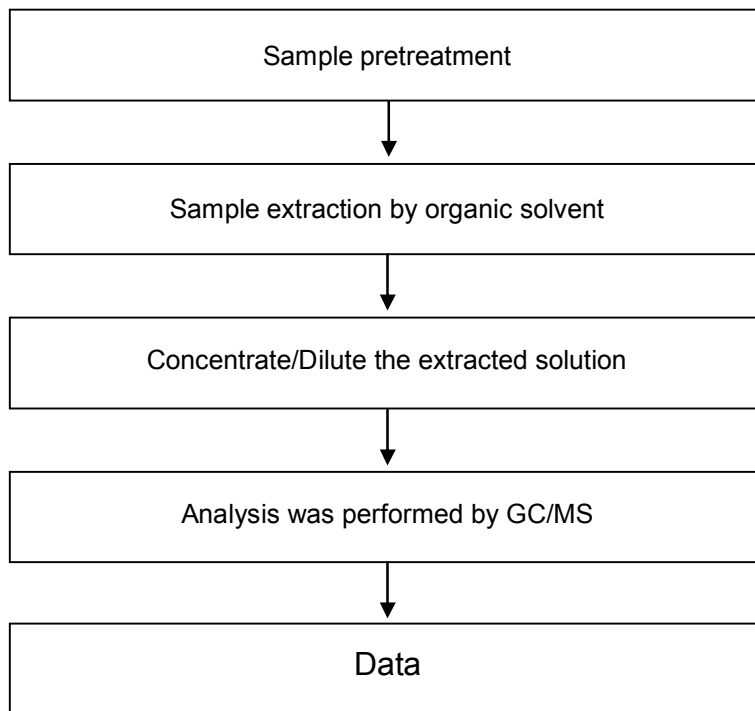


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### Chlorinated Flame retardant analytical flow chart

- 1) Name of the person who made measurement: Barry Tseng
  - 2) Name of the person in charge of measurement: Troy Chang
- Reference method: US EPA 8270D, US EPA 3540
  - Test Items: PCBs, PCNs, PCTs, Mirex, CP, MCCP



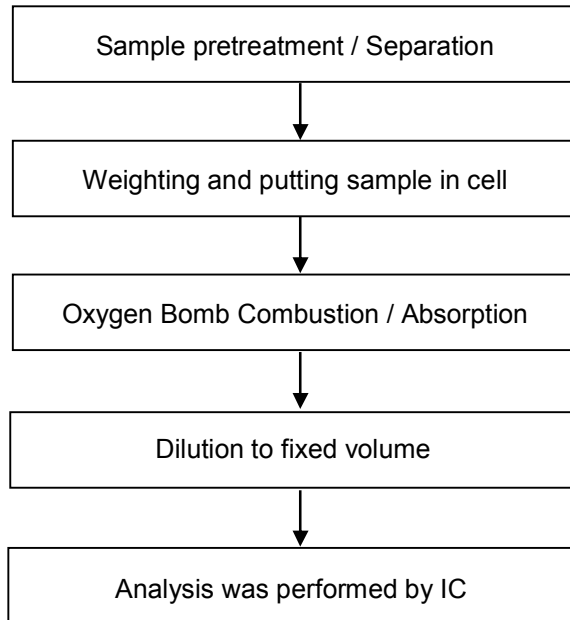
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### Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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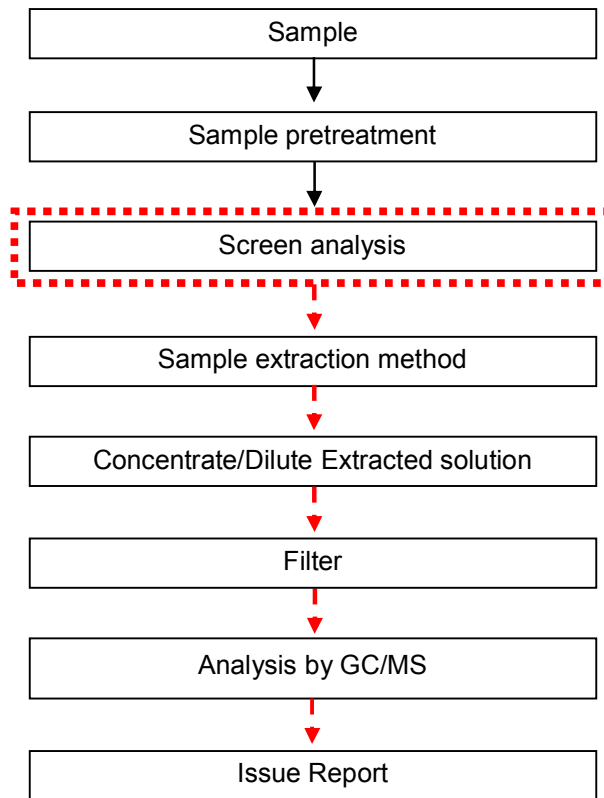


### Analytical flow chart

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

#### 【 Test Items: PBB/PBDE, TBBP-A-bis 】

First testing process —> Optional screen process ..... Confirmation process - ->



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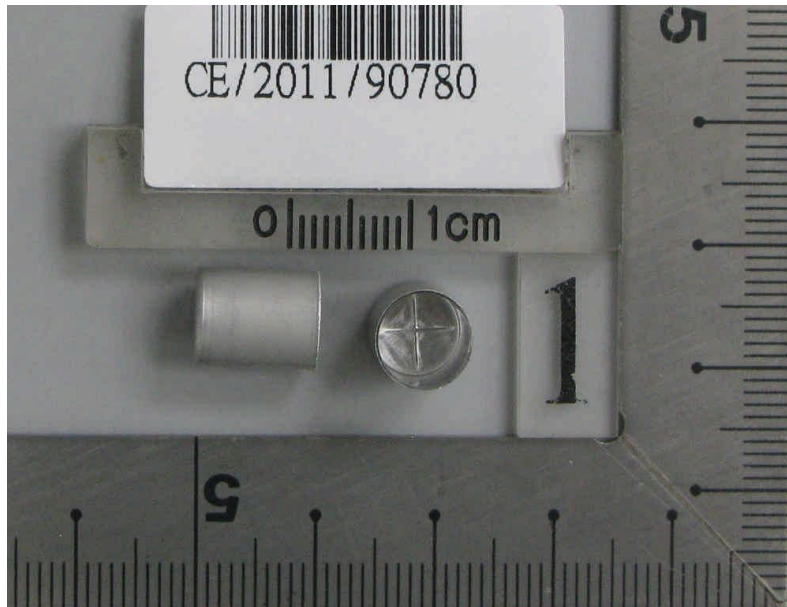
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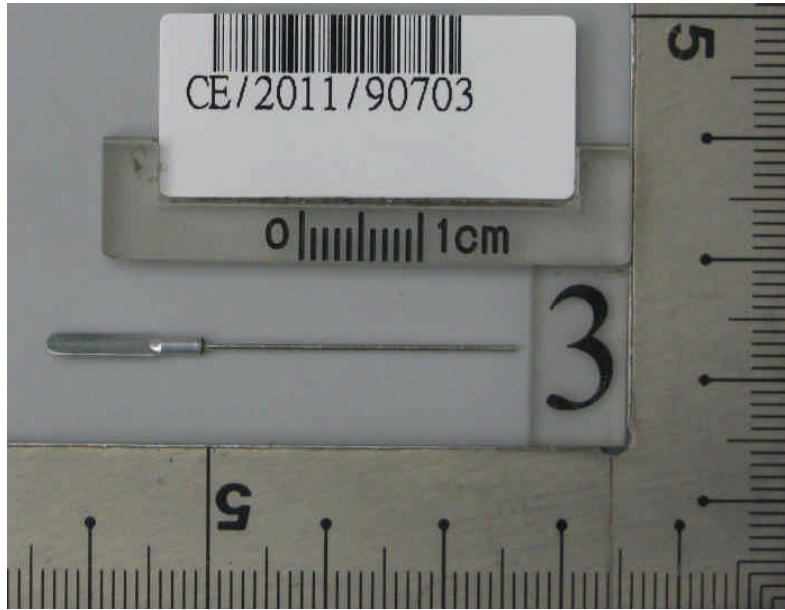
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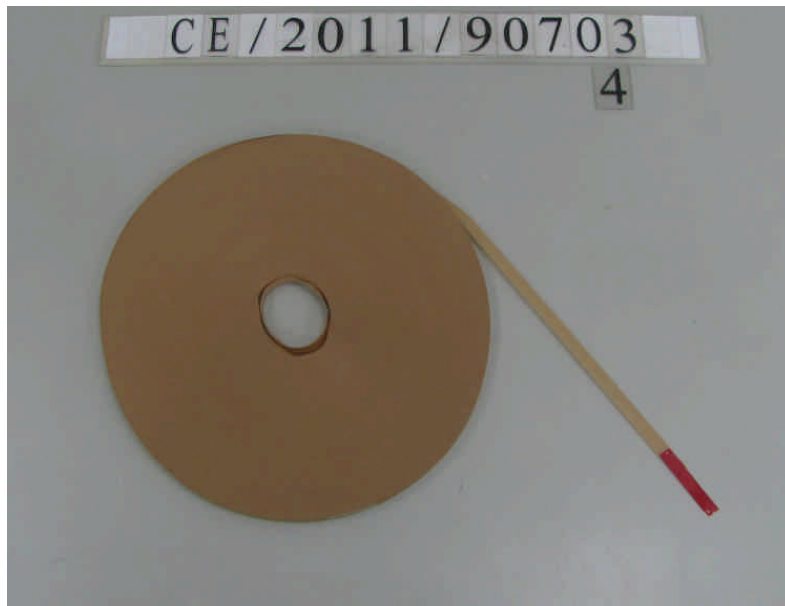
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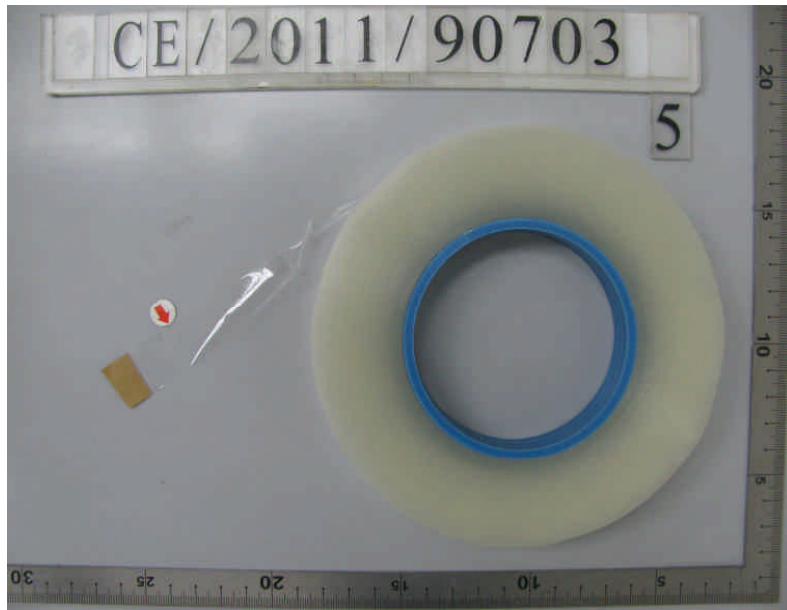
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