

Test Report

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WALSIN TECHNOLOGY CORPORATION

566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



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

Sample Description	:	MLCC PRODUCTS
Style/Item No	:	NPO K28
Sample Receiving Date	:	2008/06/19 AND 2008/06/24
Testing Period	:	2008/06/19 TO 2008/06/24 AND 2008/06/24 TO 2008/07/01

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

* This report is combined with reports of CE/2008/65693 and CE/2008/67047 *



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

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WALSIN TECHNOLOGY CORPORATION

566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



Test Result(s)

PART NAME NO.1 : MLCC PRODUCTS (CE/2008/67047)
PART NAME NO.2 : MULTILAYER CERAMIC CAPACITORS (CE/2008/65693)

Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	---	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	---	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.	---
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.	---
Beryllium oxide (BeO)	mg/kg	With reference to US EPA Method 3050B for Beryllium Content. Analysis was performed by ICP-AES. (See Note 10 and Note 11)	5.6	n.d.	---
Antimony trioxide (Sb ₂ O ₃)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES. (See Note 12)	2.4	n.d.	---
Polychlorinated Biphenyls (PCBs) (CAS No.: 001336-36-3)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	---
Polychlorinated Terphenyls (PCTs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	---
Chlorinated Paraffin (C10~C13) (CAS No.: 010871-26-2)	%	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.01	n.d.	---
Polychlorinated Naphthalene (PCNs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	---
TBBP-A-bis (CAS No.: 21850-44-2)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by HPLC/DAD/MS.	5	n.d.	---

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WALSIN TECHNOLOGY CORPORATION

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Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Formaldehyde (CAS No.: 000050-00-0)	mg/kg	With reference to DIN 53315. Analysis was performed by HPLC/DAD.	3	n.d.	---
PVC	**	Analysis was performed by FTIR and FLAME Test.	-	Negative	---
PFOS	mg/kg	With reference to US EPA 3540C : 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.	---
2-(3,5-di-tert-butyl-2-hydroxyphenyl)-2H-benzotriazole (CAS No.: 3846-71-7)	mg/kg	With reference to US EPA 3540 method. Analysis was performed by HPLC.	5	n.d.	---
Halogen	---	With reference to BS EN 14582:2007. Analysis was performed by IC method for F , Cl , Br, I content.	---	---	---
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	n.d.	---
Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.	---
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.	---
Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	n.d.	---
Sum of PBBs	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	-	n.d.	---
Monobromobiphenyl			5	n.d.	---
Dibromobiphenyl			5	n.d.	---
Tribromobiphenyl			5	n.d.	---
Tetrabromobiphenyl			5	n.d.	---
Pentabromobiphenyl			5	n.d.	---
Hexabromobiphenyl			5	n.d.	---
Heptabromobiphenyl			5	n.d.	---
Octabromobiphenyl			5	n.d.	---
Nonabromobiphenyl			5	n.d.	---
Decabromobiphenyl			5	n.d.	---

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WALSIN TECHNOLOGY CORPORATION

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Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Sum of PBDEs			-	n.d.	---
Monobromodiphenyl ether			5	n.d.	---
Dibromodiphenyl ether			5	n.d.	---
Tribromodiphenyl ether			5	n.d.	---
Tetrabromodiphenyl ether			5	n.d.	---
Pentabromodiphenyl ether			5	n.d.	---
Hexabromodiphenyl ether			5	n.d.	---
Heptabromodiphenyl ether			5	n.d.	---
Octabromodiphenyl ether			5	n.d.	---
Nonabromodiphenyl ether			5	n.d.	---
Decabromodiphenyl ether			5	n.d.	---
Organic-tin compounds	---	---	---	---	---
Triphenyl Tin (TphT) (CAS No.: 000668-34-8)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.	---
Tributyl Tin (TBT) (CAS No.: 000688-73-3)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.	---
Asbestos	---	---	---	---	---
Amosite (CAS No.: 012172-73-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	---
Anthophyllite (CAS No.: 017068-78-9)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	---
Chrysotile (CAS No.: 012001-29-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	---
Tremolite (CAS No.: 014567-73-8)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	---
Crocidolite (CAS No.: 012001-28-4)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	---
Actinolite (CAS No.: 013768-00-8)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative	---
AZO	---	---	---	---	---
1): 4-AMINODIPHENYL (CAS No.: 000092-67-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
2): BENZIDINE (CAS No.: 000092-87-5)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
3): 4-CHLORO-O-TOLUIDINE (CAS No.: 000095-69-2)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---

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Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
4): 2-NAPHTHYLAMINE (CAS No.: 000091-59-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
5): O-AMINOAZOTOLUENE (CAS No.: 000097-56-3)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
6): 2-AMINO-4-NITROTOLUENE (CAS No.: 000099-55-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
7): P-CHLOROANILINE (CAS No.: 000106-47-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
8): 2,4-DIAMINOANISOLE (CAS No.: 000615-05-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
9): 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000101-77-9)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
10): 3,3'-DICHLOOROBENZIDINE (CAS No.: 000091-94-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
11): 3,3'-DIMETHOXYBENZIDINE (CAS No.: 000119-90-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
12): 3,3'-DIMETHYLBENZIDINE (CAS No.: 000119-93-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
13): 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000838-88-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
14): P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 000120-71-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
15): 4,4'-METHYLENE-BIS- (2-CHLOROANILINE) (CAS No.: 000101-14-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
16): 4,4'-OXYDIANILINE (CAS No.: 000101-80-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
17): 4,4'-THIODIANILINE (CAS No.: 000139-65-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
18): O-TOLUIDINE (CAS No.: 000095-53-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
19): 2,4-TOLUYLENEDIAMINE (CAS No.: 000095-80-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
20): 2,4,5-TRIMETHYLANILINE (CAS No.: 000137-17-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---

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Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
21): O-ANISIDINE (CAS No.: 000090-04-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
22): P-AMINOAZOBENZENE (CAS No.: 000060-09-3)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
23): 2,4-XYLIDINE (CAS No.: 000095-68-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
24): 2,6-XYLIDINE (CAS No.: 000087-62-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---
Phthalates	---	---	---	---	---
DNHP (Di-n-hexyl phthalate) (CAS No.: 000084-75-3)	%	With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.003	n.d.	---
DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.003	n.d.	---
DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)	%	With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.01	n.d.	---
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.003	n.d.	---
DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)	%	With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.01	n.d.	---
DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.003	n.d.	---
BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	With reference to EN 14372 : 2004. Analysis was performed by GC/MS.	0.003	n.d.	---
CFC's (Chlorofluorocarbons)	---	---	---	---	---
Group I	---	---	---	---	---
Chlorofluorocarbon-11 (CAS No.: 000075-69-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Chlorofluorocarbon-12 (CAS No.: 000075-71-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Chlorofluorocarbon-113 (CAS No.: 000076-13-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Chlorofluorocarbon-114 (CAS No.: 000076-14-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Chlorofluorocarbon-115 (CAS No.: 000076-15-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---

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Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Group III	---	---	---	---	---
Chlorofluorocarbon-13 (CAS No.: 000075-72-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Chlorofluorocarbon-111 (CAS No.: 000354-56-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Chlorofluorocarbon-112 (CAS No.: 000076-12-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Chlorofluorocarbon-211 (CAS No.: 135401-87-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Chlorofluorocarbon-212 (CAS No.: 076564-99-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Chlorofluorocarbon-213 (CAS No.: 060285-54-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Chlorofluorocarbon-214 (CAS No.: 002268-46-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Chlorofluorocarbon-215 (CAS No.: 000076-17-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Chlorofluorocarbon-216 (CAS No.: 001652-80-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Chlorofluorocarbon-217 (CAS No.: 000422-86-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HCFC's (Hydrogenated chlorofluorocarbons)	---	---	---	---	---
Hydrochlorofluorocarbon-21 (CAS No.: 000075-43-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-22 (CAS No.: 000075-45-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-31 (CAS No.: 000593-70-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-121 (CAS No.: 000354-14-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-122 (CAS No.: 000354-21-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-123 (CAS No.: 000306-83-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-124 (CAS No.: 002837-89-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---

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Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Hydrochlorofluorocarbon-131 (CAS No.: 000359-28-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-132a (CAS No.: 000471-43-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-133a (CAS No.: 000075-88-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-141b (CAS No.: 001717-00-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-221 (CAS No.: 000422-26-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-222 (CAS No.: 000422-30-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-223	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-224	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-225ca (CAS No.: 000422-56-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-225cb (CAS No.: 000507-55-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-226 (CAS No.: 000431-87-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-231	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-232	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-233	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-234	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-235 (CAS No.: 013838-16-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-241	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-242	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---

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WALSIN TECHNOLOGY CORPORATION

566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Hydrochlorofluorocarbon-243 (CAS No.: 000338-75-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-244	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-251	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-252	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-253 (CAS No.: 000354-06-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-261 (CAS No.: 000420-97-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-262 (CAS No.: 000420-99-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrochlorofluorocarbon-271	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Hydrofluorocarbon, fluorinated hydrocarbon, fluorohydrocarbon (HFC)	---	---	---	---	---
HFC-23 (CHF3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-32 (CHF3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-41 (CH3F)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-43-10mee (C5H2F10)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-125 (C2HF5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-134 (C2H2F4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-134a (CH2FCF3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-143 (CH3F3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-143a (CH3F3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---

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WALSIN TECHNOLOGY CORPORATION

566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
HFC-152a (C2H4F2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-227ea (C3HF7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-236fa (C3H2F6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-236ea (C3H2F6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-245ca (C3H3F5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-245fa (C3H3F5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
HFC-365mfc (C4H5F5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Perfluorocarbon (PFC)	---	---	---	---	---
F14 (CAS No.: 000075-73-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Fluorocarbon 116 (CAS No.: 000076-16-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Freon 218 (CAS No.: 000076-19-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Decafluorobutane (CAS No.: 000355-25-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Freon C318 (CAS No.: 000115-25-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
Perfluor-1-butane (CAS No.: 000357-26-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
perfluorisobutane (CAS No.: 000382-21-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
1,4-dihydroctafluorobutane (CAS No.: 000377-36-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
nonafluor-2-(trifluoromethyl)butane (CAS No.: 000678-26-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
perfluoro-n-pentane (CAS No.: 000678-26-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---
2-perfluoromethylpentane (CAS No.: 000355-04-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---

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WALSIN TECHNOLOGY CORPORATION

566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
perfluorohexane (CAS No.: 000355-42-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	---

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. " - " = Not Regulated
 5. "---" = Not Conducted
 6. ** = Qualitative analysis (No Unit)
 7. Negative = Undetectable / Positive = Detectable
 8. Negative = "< 1.0 %", Positive = "> 1.0 %"
 9. The MDL is 5ppm for the single compound of CP
 10. Beryllium oxide (BeO): Calculate from Beryllium content multiply 2.7753 factor.
 11. Since beryllium copper is a metal alloy of copper and beryllium and the test result is n.d. for beryllium, we can have conclusion that the beryllium copper is n.d..
 12. Antimony trioxide(Sb₂O₃): Calculate from antimony content multiply 1.197 factor.

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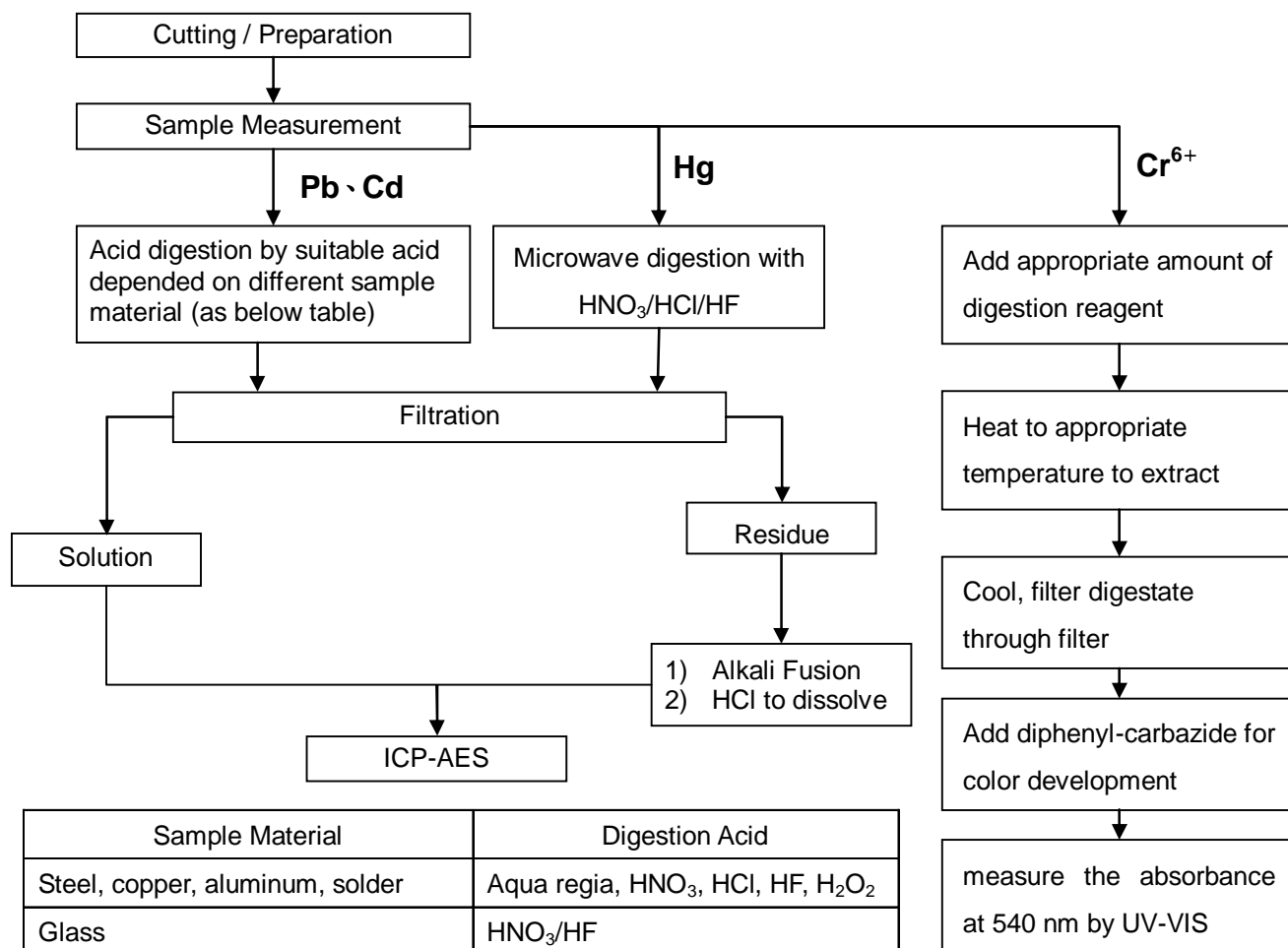
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WALSIN TECHNOLOGY CORPORATION

566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ 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 ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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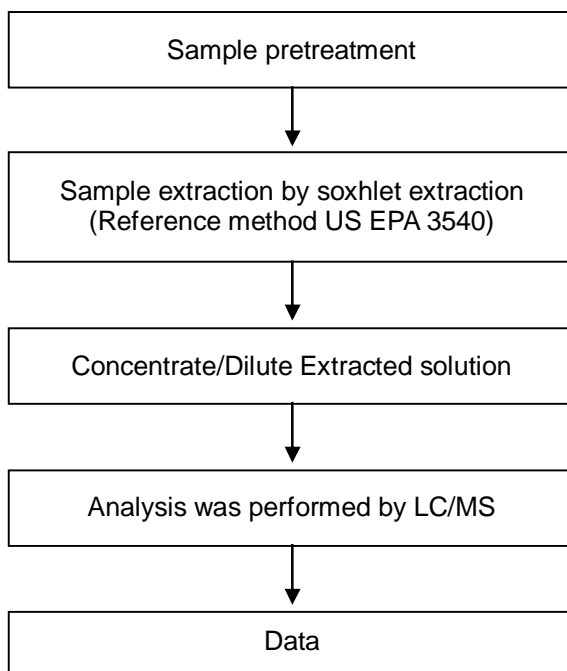
WALSIN TECHNOLOGY CORPORATION

566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



Analytical flow chart of PFOA/PFOS content

- 1) Name of the person who made measurement: Carrie Liu
- 2) Name of the person in charge of measurement: Shinjyh Chen



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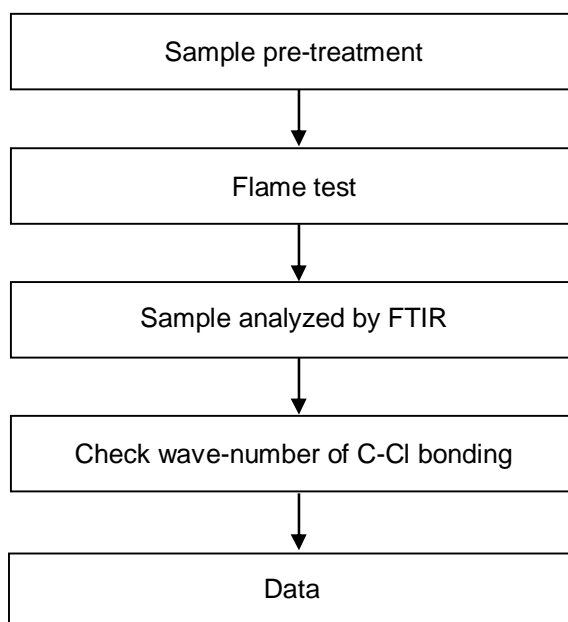
WALSIN TECHNOLOGY CORPORATION

566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



Analysis flow chart for determination of PVC in material

- 1) Name of the person who made measurement: Eva Chao
- 2) Name of the person in charge of measurement: Shinjyh Chen



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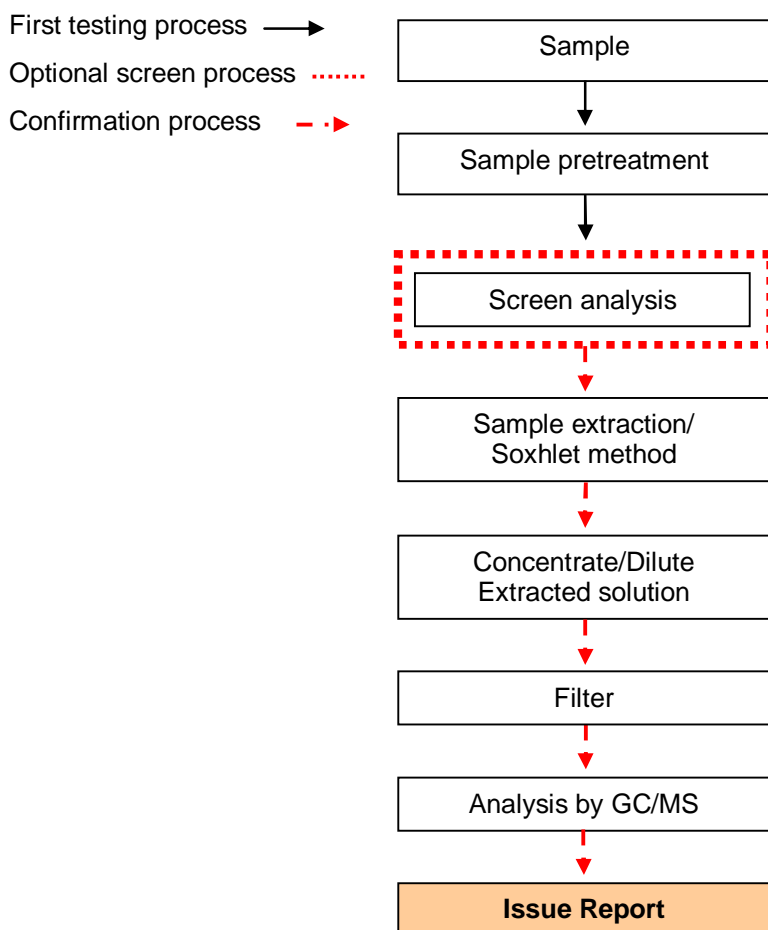
WALSIN TECHNOLOGY CORPORATION

566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen



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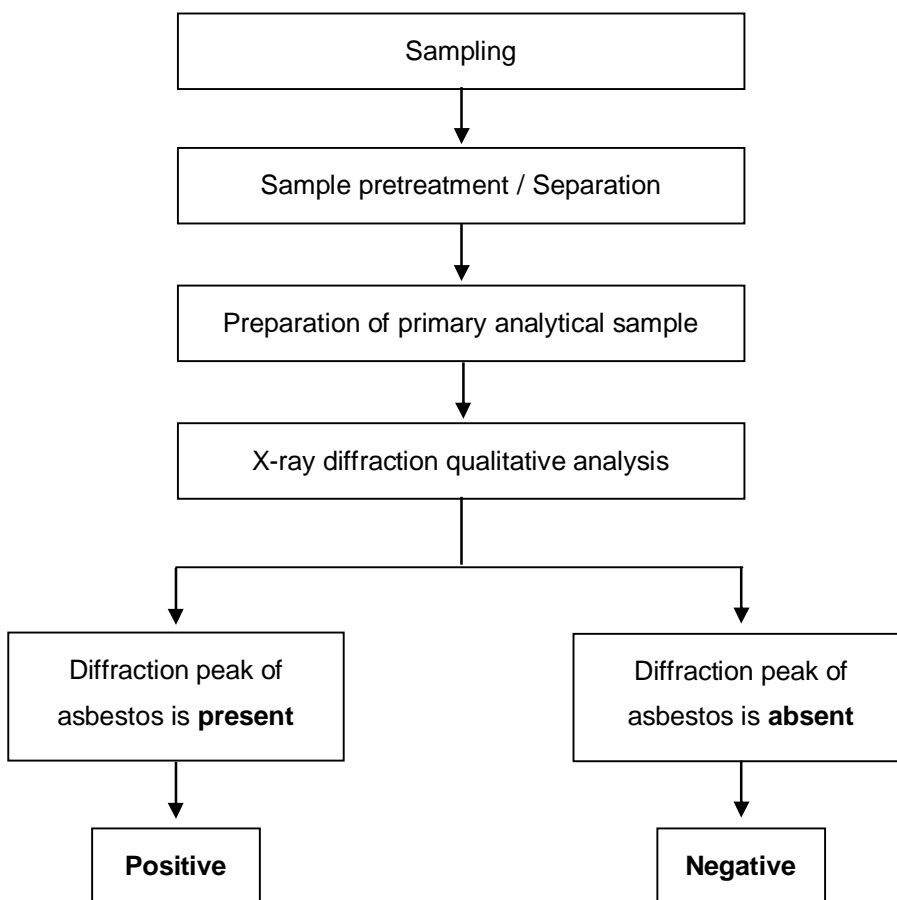
WALSIN TECHNOLOGY CORPORATION

566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



Analysis flow chart for determination of Asbestos

- 1) Name of the person who made measurement: Victor Kao
- 2) Name of the person in charge of measurement: James Lu



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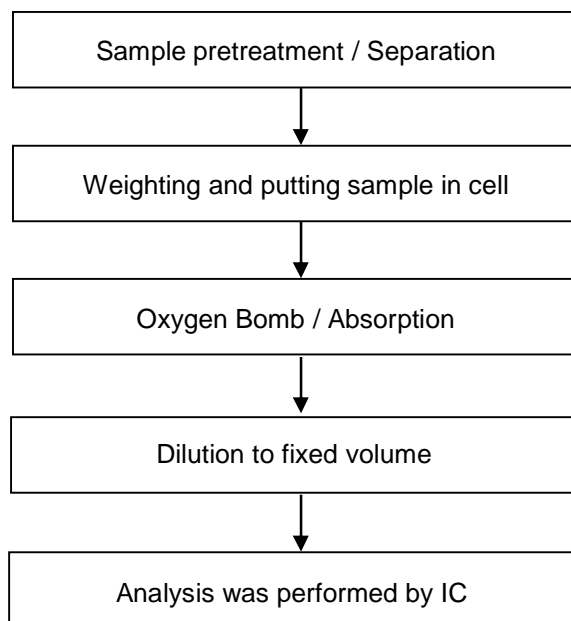
WALSIN TECHNOLOGY CORPORATION

566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



Analytical flow chart of halogen content

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



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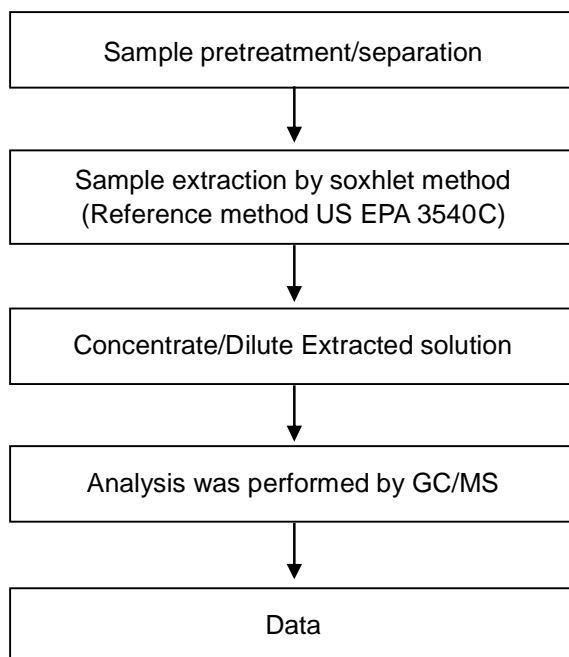
WALSIN TECHNOLOGY CORPORATION

566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



Analytical flow chart of phthalate content

- 1) Name of the person who made measurement: Andy Shu
- 2) Name of the person in charge of measurement: Shinjyh Chen



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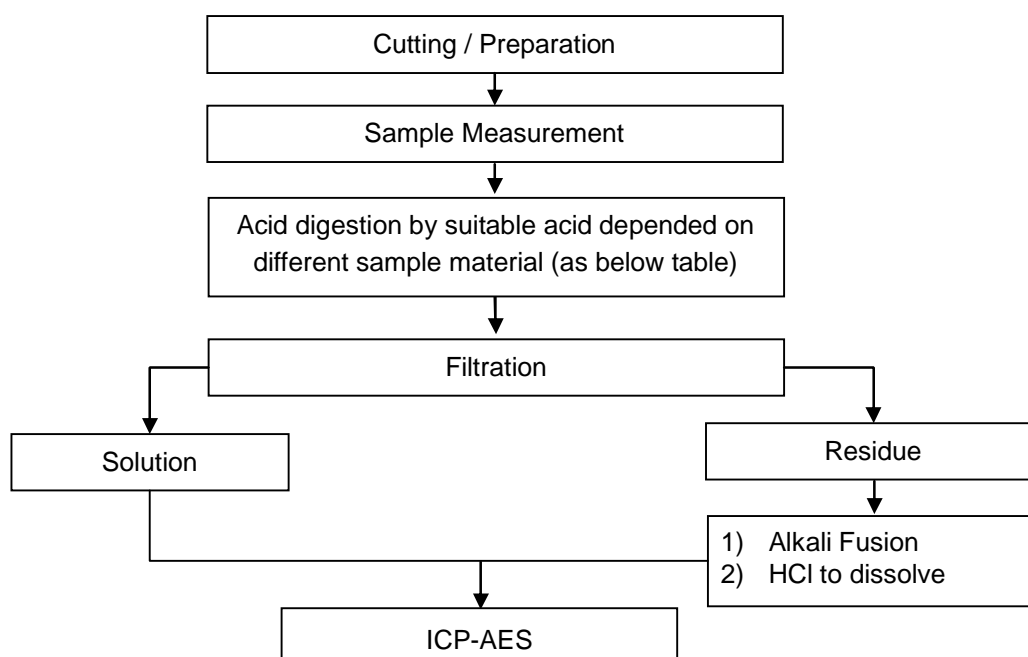
WALSIN TECHNOLOGY CORPORATION

566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

Flow Chart of Digestion for elements analysis



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

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WALSIN TECHNOLOGY CORPORATION

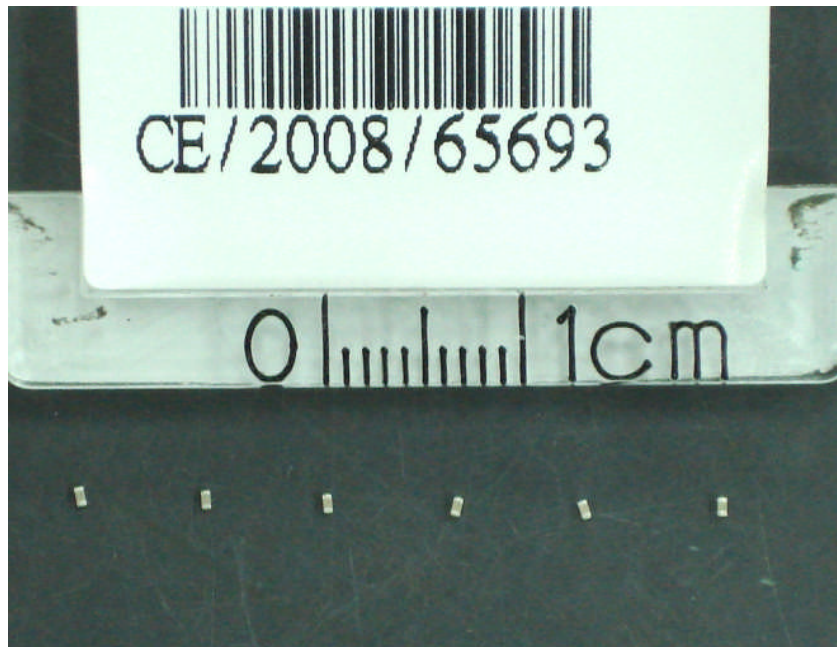
566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN, 32642 TAIWAN, R. O. C.



PART NAME NO.1



PART NAME NO.2



** End of Report **

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