

化學實驗室-高雄 Chemical Laboratory - Kao., SGS Taiwan Ltd.

測試報告

Test Report

號碼(No.) : KA/2017/10467 日期(Date) : 2017/01/20 頁數(Page) : 1 of 51

國巨股份有限公司楠梓分公司(國巨/飛元/華亞)

YAGEO CORPORATION NANTZE BRANCH (YAGEO/PHYCOMP/COMPOSTAR)

高雄市楠梓加工出口區西三街16號

16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.

以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as) :

樣品名稱(Sample Description)	: MULTI-LAYER CERAMIC CAPACITOR
樣品型號(Style/Item No.)	: NPO/X5R/X7R/X6S/X7S/Y5V SERIES
收件日期(Sample Receiving Date)	: 2017/01/06
測試期間(Testing Period)	: 2017/01/06 TO 2017/01/20
送樣廠商(Sample Submitted By)	: 國巨股份有限公司楠梓分公司 (YAGEO CORPORATION NANTZE BRANCH)

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


報告簽署人/Ray Chang, Ph.D./Manager-Tech
Signed for and on behalf of
SGS Taiwan Limited



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測試結果(Test Results)

測試部位(PART NAME) NO.1 : 棕色/銀色 MULTI-LAYER CERAMIC CAPACITOR (BROWN/SILVER MULTI-LAYER CERAMIC CAPACITOR)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
砷 / Arsenic (As)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測砷含量. / With reference to US EPA Method 3052 for Arsenic Content. Analysis was performed by ICP-AES.	2	n.d.
鉍 / Bismuth (Bi)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測鉍含量. / With reference to US EPA Method 3052 for Bismuth Content. Analysis was performed by ICP-AES.	2	n.d.
鈷 / Cobalt (Co)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測鈷含量. / With reference to US EPA Method 3052 for Cobalt Content. Analysis was performed by ICP-AES.	2	n.d.
鉻 / Chromium (Cr)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測鉻含量. / With reference to US EPA Method 3052 for Chromium Content. Analysis was performed by ICP-AES.	2	n.d.
銻 / Antimony (Sb)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測銻含量. / With reference to US EPA Method 3052 for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.
三氧化二銻 / Antimony trioxide (Sb2O3)*** (CAS No.: 1309-64-4)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測銻含量. / With reference to US EPA Method 3052 for Antimony Content. Analysis was performed by ICP-AES.	-	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
硒 / Selenium (Se)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測硒含量. / With reference to US EPA Method 3052 for Selenium Content. Analysis was performed by ICP-AES.	2	n.d.
鉍 / Tellurium (Te)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測鉍含量. / With reference to US EPA 3052 for Tellurium Content. Analysis was performed by ICP-AES.	2	n.d.
鉈 / Thallium (Tl)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測鉈含量. / With reference to US EPA Method 3052 for Thallium Content. Analysis was performed by ICP-AES.	2	n.d.
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測鈹含量. / With reference to US EPA Method 3052 for Beryllium Content. Analysis was performed by ICP-AES.	2	n.d.
鈦 / Titanium (Ti)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測鈦含量. / With reference to US EPA 3052 for Titanium Content. Analysis was performed by ICP-AES.	2	7540

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS - Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C: 2007方法, 以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
全氟辛酸(銨) / PFOA (CAS No.: 335-67-1)	mg/kg	參考US EPA 3550C: 2007方法, 以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	參考RSTS-E&E-121方法, 以液相層析/質譜儀分析. / With reference to RSTS-E&E-121. Analysis was performed by LC/MS.	10	n.d.
多氯聯苯 / Polychlorinated Biphenyls (PCBs)	mg/kg	參考US EPA 3540C方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.
多氯萘 / Polychlorinated Naphthalene (PCNs)	mg/kg	參考US EPA 3540C方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
多氯三聯苯 / Polychlorinated Terphenyls (PCTs)	mg/kg	參考US EPA 3540C方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 085535-84-8))	%	參考US EPA 3540C: 1996方法, 以氣相層析儀 /電子捕獲偵測器檢測. / With reference to US EPA 3540C: 1996 method. Analysis was performed by GC/ECD.	0.01	n.d.
滅蟻靈 / Mirex (CAS No.: 2385-85-5)	mg/kg	參考US EPA 8270D方法, 以氣相層析質譜儀 (GC/MS)檢測. / With reference to US EPA 8270D method. Analysis was performed by GC/MS.	4	n.d.
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	-	Negative
中鏈氯化石蠟 / Medium-Chained Chlorinated Paraffins (C14-C17) (MCCP) (CAS No.: 85535-85-9)	mg/kg	參考US EPA 3540C: 1996方法, 以氣相層析儀 /電子捕獲偵測器檢測. / With reference to US EPA 3540C: 1996 method. Analysis was performed by GC/ECD.	50	n.d.
三(2,3-二溴丙基)磷酸酯 / Tris-(2,3- dibromopropyl)phosphate(TDBPP) (CAS No.:126-72-7)	mg/kg	參考US EPA 3550C方法, 以氣相層析質譜儀 (GC/MS)檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n.d.
鄰酸三(1,3-二氯-2-丙基)酯 / TDCPP (Tris(1,3-dichloro-2-propyl)phosphate) (CAS NO.:13674-87-8)	mg/kg	參考US EPA 3550C方法, 以氣相層析質譜儀 (GC/MS)檢測. /With reference toUS EPA 3550C. Analysis was performed by GC/MS.	5	n.d.
磷酸三(2-氯乙基)酯 / TCEP (Tris-(2- chloroethyl) phosphate) (CAS No.: 115- 96-8)	mg/kg	參考US EPA 3550C方法, 以氣相層析質譜儀 (GC/MS)檢測. /With reference toUS EPA 3550C. Analysis was performed by GC/MS.	5	n.d.

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				NO.1
紅磷 / Red phosphorus	**	本測試以熱裂解儀分析. / Analysis was performed by Pyrolyzer-GC/MS.	-	Negative
三氯沙 / Triclosan (CAS No.:003380-34-5)	mg/kg	參考US EPA 3540C: 1996方法, 以氣相層析質譜儀檢測三氯沙含量. / With reference to US EPA 3540C: 1996 method for Triclosan Content. Analysis was performed by GC/MS.	5	n.d.
雙酚 A / Bisphenol A (CAS No.: 80-05-7)	mg/kg	參考RSTS-HL-229-1方法, 以液相層析/質譜儀檢測. / With reference to RSTS-HL-229-1 method. Analysis was performed by LC/MS.	1	n.d.
富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	參考US EPA 3550C方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	0.1	n.d.
2-(3', 5'-二叔丁基-2'-羥基苯基)苯並三氮唑 / 2-(3,5-di-tert-butyl-2-hydroxyphenyl)-2H-benzotriazole (CAS No.: 3846-71-7)	mg/kg	參考US EPA 3540C方法, 以氣相層析質譜儀檢測之. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321: 2008方法, 以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.
福馬林 (甲醛) / Formaldehyde (CAS No.: 50-00-0)	mg/kg	參考ISO 17226-1方法, 以高效液相層析儀/二極體陣列偵測器檢測. / With reference to ISO 17226-1. Analysis was performed by HPLC/DAD.	3	n.d.

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				NO.1
石棉 / Asbestos				
陽起石 / Actinolite (CAS No.: 77536-66-4)	%	參考EPA 600/R-93/116 / 立體顯微鏡 (SM), 分散染色式偏光顯微鏡 (DS-PLM)及X光繞射光譜分析法 (XRD) / With reference to EPA 600/R-93/116 method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).	-	Negative
斜方角閃石 / Anthophyllite (CAS No.: 77536-67-5)	%	參考EPA 600/R-93/116 / 立體顯微鏡 (SM), 分散染色式偏光顯微鏡 (DS-PLM)及X光繞射光譜分析法 (XRD) / With reference to EPA 600/R-93/116 method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).	-	Negative
棕石棉 / Amosite (CAS No.: 12172-73-5)	%	參考EPA 600/R-93/116 / 立體顯微鏡 (SM), 分散染色式偏光顯微鏡 (DS-PLM)及X光繞射光譜分析法 (XRD) / With reference to EPA 600/R-93/116 method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).	-	Negative

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化學實驗室-高雄 Chemical Laboratory - Kao., SGS Taiwan Ltd.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
白石棉 / Chrysotile (CAS No.: 12001-29-5)	%	參考EPA 600/R-93/116 / 立體顯微鏡 (SM), 分散染色式偏光顯微鏡 (DS-PLM)及X光繞射光譜分析法 (XRD) / With reference to EPA 600/R-93/116 method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).	-	Negative
青石棉 / Crocidolite (CAS No.: 12001-28-4)	%	參考EPA 600/R-93/116 / 立體顯微鏡 (SM), 分散染色式偏光顯微鏡 (DS-PLM)及X光繞射光譜分析法 (XRD) / With reference to EPA 600/R-93/116 method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).	-	Negative
透閃石 / Tremolite (CAS No.: 77536-68-6)	%	參考EPA 600/R-93/116 / 立體顯微鏡 (SM), 分散染色式偏光顯微鏡 (DS-PLM)及X光繞射光譜分析法 (XRD) / With reference to EPA 600/R-93/116 method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).	-	Negative

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測試報告

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
偶氮 (AZO)				
1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	本測試參考EN 14362-1方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to EN 14362-1. Analysis was performed by GC/MS.	3	n.d.
2): 聯苯胺 / BENZIDINE (CAS No.: 92-87-5)	mg/kg		3	n.d.
3): 4-氯鄰甲苯胺 / 4-CHLORO-O-TOLUIDINE (CAS No.: 95-69-2)	mg/kg		3	n.d.
4): 2-萘胺 / 2-NAPHTHYLAMINE (CAS No.: 91-59-8)	mg/kg		3	n.d.
5): 鄰氨基二甲基偶氮 / O-AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg		3	n.d.
6): 對硝基鄰甲苯胺 / 2-AMINO-4-NITROTOLUENE (CAS No.: 99-55-8)	mg/kg		3	n.d.
7): 對氯苯胺 / P-CHLOROANILINE (CAS No.: 106-47-8)	mg/kg		3	n.d.
8): 4-甲氧基-間苯二胺 / 2,4-DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg		3	n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
9): 4,4'-二氨基二苯甲烷 / 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9)	mg/kg	本測試參考EN 14362-1方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to EN 14362-1. Analysis was performed by GC/MS.	3	n.d.
10): 3,3'-二氯聯苯胺 / 3,3'-DICHLOROBENZIDINE (CAS No.: 91-94-1)	mg/kg		3	n.d.
11): 3,3'-二甲氧基聯苯胺 / 3,3'-DIMETHOXYBENZIDINE (CAS No.: 119-90-4)	mg/kg		3	n.d.
12): 3,3'-二甲基聯苯胺 / 3,3'-DIMETHYLBENZIDINE (CAS No.: 119-93-7)	mg/kg		3	n.d.
13): 3,3'-二甲基-4,4'-二氨基二苯甲烷 / 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg		3	n.d.
14): 2-甲氧基-5-甲基聯苯 / P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 120-71-8)	mg/kg		3	n.d.
15): 4,4'-亞甲基雙(氯苯胺) / 4,4'-METHYLENE-BIS-(2-CHLOROANILINE) (CAS No.: 101-14-4)	mg/kg		3	n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
16): 4,4'-氧化雙苯胺 / 4,4'- OXYDIANILINE (CAS No.: 101-80-4)	mg/kg	本測試參考EN 14362-1方法, 以氣相層析質譜 儀(GC/MS)檢測. / With reference to EN 14362-1. Analysis was performed by GC/MS.	3	n.d.
17): 4,4'-硫代雙苯胺 / 4,4'- THIODIANILINE (CAS No.: 139-65-1)	mg/kg		3	n.d.
18): 鄰甲苯胺 / O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg		3	n.d.
19): 2,4-二氨基甲苯 / 2,4- TOLUYLENEDIAMINE (CAS No.: 95-80-7)	mg/kg		3	n.d.
20): 2,4,5-三甲基苯胺 / 2,4,5- TRIMETHYLANILINE (CAS No.: 137-17-7)	mg/kg		3	n.d.
21): 鄰位甲氧基苯胺 / O-ANISIDINE (CAS No.: 90-04-0)	mg/kg		3	n.d.
22): 對氨基偶氮苯 / P-AMINOAZOBENZENE (CAS No.: 60-09-3)	mg/kg		3	n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)
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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
23): 2,4-二甲基苯胺 / 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg	本測試參考EN 14362-1方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to EN 14362-1. Analysis was performed by GC/MS.	3	n.d.
24): 2,6-二甲基苯胺 / 2,6-XYLIDINE (CAS No.: 87-62-7)	mg/kg		3	n.d.
氟氯碳化物 / CFCs				
Group I				n.d.
氟氯碳化物(Chlorofluorocarbon)-11 (CAS No.: 75-69-4)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)-12 (CAS No.: 75-71-8)	mg/kg		1	n.d.
氟氯碳化物(Chlorofluorocarbon)-113 (CAS No.: 76-13-1)	mg/kg		1	n.d.
氟氯碳化物(Chlorofluorocarbon)-114 (CAS No.: 76-14-2)	mg/kg		1	n.d.
氟氯碳化物(Chlorofluorocarbon)-115 (CAS No.: 76-15-3)	mg/kg		1	n.d.
Group III				n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)
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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氟氯碳化物(Chlorofluorocarbon)-13 (CAS No.: 75-72-9)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)-111 (CAS No.: 354-56-3)	mg/kg		1	n.d.
氟氯碳化物(Chlorofluorocarbon)-112 (CAS No.: 76-12-0)	mg/kg		1	n.d.
氟氯碳化物(Chlorofluorocarbon)-211 (CAS No.: 422-78-6)	mg/kg		1	n.d.
氟氯碳化物(Chlorofluorocarbon)-212 (CAS No.: 3182-26-1)	mg/kg		1	n.d.
氟氯碳化物(Chlorofluorocarbon)-213 (CAS No.: 2354-06-5)	mg/kg		1	n.d.
氟氯碳化物(Chlorofluorocarbon)-214 (CAS No.: 29255-31-0)	mg/kg		1	n.d.
氟氯碳化物(Chlorofluorocarbon)-215 (CAS No.: 4259-43-2)	mg/kg		1	n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)
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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氟氯碳化物(Chlorofluorocarbon)-216 (CAS No.: 661-97-2)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀 (GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
氟氯碳化物(Chlorofluorocarbon)-217 (CAS No.: 422-86-6)	mg/kg		1	n.d.
海龍 (Halons)				
海龍(Halon)-1211 (CAS No.: 353-59-3)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀 (GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
海龍(Halon)-1301 (CAS No.: 75-63-8)	mg/kg		1	n.d.
海龍(Halon)-2402 (CAS No.: 124-73-2)	mg/kg		1	n.d.
氟氯氫碳化物 / HCFCs (Hydrochlorofluorocarbons)				
氟氯氫碳化物(HCFC)-21 (CAS No.: 75-43-4)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀 (GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-22 (CAS No.: 75-45-6)	mg/kg		1	n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)
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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氟氯氫碳化物(HCFC)-31 (CAS No.: 593-70-4)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-121 (CAS No.: 354-14-3)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-122 (CAS No.: 354-21-2)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-123 (CAS No.: 306-83-2)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-124 (CAS No.: 2837-89-0)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-131 (CAS No.: 359-28-4)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-132b (CAS No.: 1649-08-7)	mg/kg		1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氟氯氫碳化物(HCFC)-133a (CAS No.: 75-88-7)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-141b (CAS No.: 1717-00-6)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-142b (CAS No.: 75-68-3)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-221 (CAS No.: 422-26-4)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-222 (CAS No.: 422-49-1)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-223 (CAS No.: 422-52-6)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-224 (CAS No.: 422-54-8)	mg/kg		1	n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)
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高雄市楠梓加工出口區西三街16號
16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氟氯氫碳化物(HCFC)-225ca (CAS No.: 422-56-0)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-225cb (CAS No.: 507-55-1)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-226 (CAS No.: 431-87-8)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-231 (CAS No.: 421-94-3)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-232 (CAS No.: 460-89-9)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-233 (CAS No.: 7125-84-0)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-234 (CAS No.: 425-94-5)	mg/kg		1	n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)
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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氟氯氫碳化物(HCFC)-235 (CAS No.: 460-92-4)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-241(CAS No.: 666-27-3)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-242 (CAS No.: 460-63-9)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-243 (CAS No.: 460-69-5)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-244	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-251 (CAS No.: 421-41-0)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-252 (CAS No.: 819-00-1)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-253 (CAS No.: 460-35-5)	mg/kg		1	n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)
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16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氟氯氫碳化物(HCFC)-261 (CAS No.: 420-97-3)	mg/kg	參考US EPA 5021A方法,以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
氟氯氫碳化物(HCFC)-262 (CAS No.: 421-02-03)	mg/kg		1	n.d.
氟氯氫碳化物(HCFC)-271 (CAS No.: 430-55-7)	mg/kg		1	n.d.
不完全鹵化氟溴化物 / HBFCs (Hydrobromofluorocarbons)				
不完全鹵化氟溴化物(HBFC)-21B2 (CHFBr ₂) (CAS No.: 1868-53-7)	mg/kg	參考US EPA 5021A方法,以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-22B1 (CHF ₂ Br) (CAS No.: 1511-62-2)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-31B1 (CH ₂ FBr) (CAS No.: 373-52-4)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-121B4 (C ₂ HFBr ₄)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-122B3 (C ₂ HF ₂ Br ₃)	mg/kg		1	n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)
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16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
不完全鹵化氟溴化物(HBFC)-123B2 (C2HF3Br2)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀 (GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-124B1 (C2HF4Br)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-131B3 (C2H2FBr3)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-132B2 (C2H2F2Br2)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-133B1 (C2H2F3Br)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-141B2 (C2H3FBr2)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-142B1 (C2H3F2Br)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-151B1 (C2H4FBr)	mg/kg		1	n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)
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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
不完全鹵化氟溴化物(HBFC)-221B6 (C3HFB ₆)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀 (GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-222B5 (C3HF ₂ Br ₅)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-223B4 (C3HF ₃ Br ₄)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-224B3 (C3HF ₄ Br ₃)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-225B2 (C3HF ₅ Br ₂)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-226B1 (C3HF ₆ Br)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-231B5 (C3H ₂ FBr ₅)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-232B4 (C3H ₂ F ₂ Br ₄)	mg/kg		1	n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)
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16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
不完全鹵化氟溴化物(HBFC)-233B3 (C3H2F3Br3)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀 (GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-234B2 (C3H2F4Br2)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-235B1 (C3H2F5Br)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-241B4 (C3H3FBr4)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-242B3 (C3H3F2Br3)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-243B2 (C3H3F3Br2)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-244B1 (C3H3F4Br)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-251B3 (C3H4FBr3)	mg/kg		1	n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)
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16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
不完全鹵化氟溴化物(HBFC)-252B2 (C3H4F2Br2)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀 (GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
不完全鹵化氟溴化物(HBFC)-253B1 (C3H4F3Br)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-261B2 (C3H5FBr2)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-262B1 (C3H5F2Br)	mg/kg		1	n.d.
不完全鹵化氟溴化物(HBFC)-271B1 (C3H6FBr)	mg/kg		1	n.d.
氫氟碳化物 / HFCs (Hydrofluorocarbon)				
氫氟碳化物(HFC)-23 (CHF3)(CAS No.: 75- 46-7)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀 (GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-32 (CH2F2)(CAS No.: 75-10-5)	mg/kg		1	n.d.
氫氟碳化物(HFC)-41 (CH3F)(CAS No.: 593-53-3)	mg/kg		1	n.d.

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16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氫氟碳化物(HFC)-43-10mee (C5H2F10)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-125 (C2HF5)	mg/kg		1	n.d.
氫氟碳化物(HFC)-134 (C2H2F4)	mg/kg		1	n.d.
氫氟碳化物(HFC)-134a (CH2FCF3)(CAS No.: 811-97-2)	mg/kg		1	n.d.
氫氟碳化物(HFC)-143 (CH3F3)	mg/kg		1	n.d.
氫氟碳化物(HFC)-143a (CH3F3)	mg/kg		1	n.d.
氫氟碳化物(HFC)-152a (C2H4F2)(CAS No.: 75-37-6)	mg/kg		1	n.d.
氫氟碳化物(HFC)-227ea (C3HF7)(CAS No.: 431-89-0)	mg/kg		1	n.d.

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)
 YAGEO CORPORATION NANTZE BRANCH (YAGEO/PHYCOMP/COMPOSTAR)
 高雄市楠梓加工出口區西三街16號
 16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氫氟碳化物(HFC)-236ea (C3H2F6)(CAS No.: 431-63-0)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
氫氟碳化物(HFC)-236fa (C3H2F6)	mg/kg		1	n.d.
氫氟碳化物(HFC)-245ca (C3H3F5)	mg/kg		1	n.d.
氫氟碳化物(HFC)-245fa (C3H3F5)	mg/kg		1	n.d.
氫氟碳化物(HFC)-365mfc (C4H5F5)	mg/kg		1	n.d.
全氟碳化物 / PFCs (Perfluorocarbon)				
四氟甲烷 / F14 (CAS No.: 75-73-0)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
六氟乙烷 / Fluorocarbon 116 (CAS No.: 76-16-4)	mg/kg		1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
八氟丙烷 / Freon 218 (CAS No.: 76-19-7)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
十氟丁烷 / Decafluorobutane (CAS No.: 355-25-9)	mg/kg		1	n.d.
八氟環丁烷 / Freon C318 (CAS No.: 115-25-3)	mg/kg		1	n.d.
全氟-1-丁烯 / Perfluor-1-butene (CAS No.: 357-26-6)	mg/kg		1	n.d.
全氟異丁烯 / perfluorisobutene (CAS No.: 382-21-8)	mg/kg		1	n.d.
1,4-二氫八氟丁烷 / 1,4-dihydrooctafluorobutane (CAS No.: 377-36-6)	mg/kg		1	n.d.
2-全氟甲基丁烷 / nonafluor-2-(trifluoromethyl)butane (CAS No.: 594-91-2)	mg/kg		1	n.d.
全氟戊烷 / perfluoro-n-pentane (CAS No.: 678-26-2)	mg/kg		1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
2-全氟甲基戊烷 / 2-perfluoromethylpentane (CAS No.: 355-04-4)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
全氟己烷 / perfluorohexane (CAS No.: 355-42-0)	mg/kg		1	n.d.
氯化碳氫化物 / CHCs (Chlorinate hydrocarbon)				
1,1,1,2-四氯乙烷 / 1,1,1,2-Tetrachloroethane (CAS No.: 630-20-6)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
1,1,1-三氯乙烷 / 1,1,1-Trichloroethane (CAS No.: 71-55-6)	mg/kg		1	n.d.
1,1,2,2-四氯乙烷 / 1,1,2,2-Tetrachloroethane (CAS No.: 79-34-5)	mg/kg		1	n.d.
1,1,2-三氯乙烷 / 1,1,2-Trichloroethane (CAS No.: 79-00-5)	mg/kg		1	n.d.
1,1-二氯乙烷 / 1,1-Dichloroethane (CAS No.: 75-34-3)	mg/kg		1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
1,1-二氯乙烷 / 1,1-Dichloroethene (CAS No.: 75-35-4)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
1,1-二氯丙烯 / 1,1-Dichloropropene (CAS No.: 563-58-6)	mg/kg		1	n.d.
1,2,3-三氯丙烷 / 1,2,3-Trichloropropane (CAS No.: 96-18-4)	mg/kg		1	n.d.
1,2-二氯乙烷 / 1,2-Dichloroethane (CAS No.: 107-06-2)	mg/kg		1	n.d.
1,2-二氯丙烷 / 1,2-Dichloropropane (CAS No.: 78-87-5)	mg/kg		1	n.d.
1,3-二氯丙烷 / 1,3-Dichloropropane (CAS No.: 142-28-9)	mg/kg		1	n.d.
2,2-二氯丙烷 / 2,2-Dichloropropane (CAS No.: 594-20-7)	mg/kg		1	n.d.
四氯甲烷(四氯化碳) / Carbon tetrachloride (CAS No.: 56-23-5)	mg/kg		1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
氯乙烷 / Chloroethane (CAS No.: 75-00-3)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
氯仿 / Chloroform (CAS No.: 67-66-3)	mg/kg		1	n.d.
氯甲烷 / Chloromethane (CAS No.: 74-87-3)	mg/kg		1	n.d.
順-1,2-二氯乙烯 / cis-1,2-Dichloroethene (CAS No.: 156-59-2)	mg/kg		1	n.d.
順-1,3-二氯丙烯 / cis-1,3-Dichloropropene (CAS No.: 10061-01-5)	mg/kg		1	n.d.
六氯丁二烯 / Hexachlorobutadiene (CAS No.: 87-68-3)	mg/kg		1	n.d.
二氯甲烷 / Dichloromethane (CAS No.: 75-09-2)	mg/kg		1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
四氯乙烯 / Tetrachloroethene (CAS No.: 127-18-4)	mg/kg	參考US EPA 5021A方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 5021A method. Analysis was performed by GC/MS.	1	n.d.
反-1,2-二氯乙烯 / trans-1,2-Dichloroethene (CAS No.: 156-60-5)	mg/kg		1	n.d.
反-1,3-二氯丙烯 / trans-1,3-Dichloropropene (CAS No.: 10061-02-6)	mg/kg		1	n.d.
三氯乙烯 / Trichloroethylene (CAS No.: 79-01-6)	mg/kg		1	n.d.
溴甲烷 / Bromomethane (CAS No.: 74-83-9)	mg/kg		1	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) NO.1
有機錫 / Organic-tin compounds				
三丁基錫 / Tributyl Tin (TBT)	mg/kg	本測試參考ISO 17353: 2004方法, 以氣相層析儀/火焰光度偵測器檢測. / With reference to ISO 17353: 2004. Analysis was performed by GC/FPD.	0.03	n.d.
三苯基錫 / Triphenyl Tin (TphT)	mg/kg		0.03	n.d.
單丁基錫 / Monobutyl Tin (MBT)	mg/kg		0.03	n.d.
二丁基錫 / Dibutyl Tin (DBT)	mg/kg		0.03	n.d.
四丁基錫 / Tetrabutyltin (TeBT)	mg/kg		0.03	n.d.
單辛基錫 / Mono-octyltin (MOT)	mg/kg		0.03	n.d.
二辛基錫 / Dioctyl Tin (DOT)	mg/kg		0.03	n.d.
三環己基錫 / Tricyclohexyltin (TCyT)	mg/kg		0.03	n.d.

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				NO.1
多環芳香烴 / Polynuclear Aromatic Hydrocarbons (PAHs)				
菲 / Phenanthrene (CAS No.: 85-01-8)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
芘 / Pyrene (CAS No.: 129-00-0)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
萘 / Naphthalene (CAS No.: 91-20-3)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
茚酮芘 / Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
芴 / Fluorene (CAS No.: 86-73-7)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
苯駢芴 / Fluoranthene (CAS No.: 206-44-0)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
二苯駢蒽 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
Chrysene (CAS No.: 218-01-9)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
苯駢芴 / Benzo[g,h,i]perylene (CAS No.: 191-24-2)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
苯駢(a)芘 / Benzo[a]pyrene (CAS No.: 50-32-8)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.

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測試報告

Test Report

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)

YAGEO CORPORATION NANTZE BRANCH (YAGEO/PHYCOMP/COMPOSTAR)

高雄市楠梓加工出口區西三街16號

16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
苯駢蔥 / Benzo[a]anthracene (CAS No.: 56-55-3)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
蔥 / Anthracene (CAS No.: 120-12-7)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
萵烯 / Acenaphthylene (CAS No.: 208-96-8)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
萵 / Acenaphthene (CAS No.: 83-32-9)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
苯(j)苯駢芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3)	mg/kg	參考AfPS GS 2014:01 PAK方法, 以氣相層析/質譜儀檢測. / With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.	0.2	n.d.
多環芳香烴18項總和 / Sum of 18 PAHs	mg/kg	-	-	n.d.

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備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. ** = Qualitative analysis (No Unit) 定性分析(無單位)
6. 聚氯乙烯(PVC):Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
7. 石棉定性分析試驗範圍: <0.1%~100%, 石棉鑑定的判定基準是以檢出含有石棉纖維為『Positive』, 未檢出石棉纖維為『Negative』。 / Testing range of asbestos qualitative analysis is from less than 0.1% to 100%.The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".
8. ***: 該物質是由"三丁基錫", "三苯基錫"或各別元素(例如: 銻、鉍、矽、鋅或磷)之測試結果計算得知。其MDL是針對"三丁基錫", "三苯基錫"或元素(例如: 銻、鉍、矽、鋅或磷)之評估。(The substance was calculated by the test results of Tributyl Tin, Triphenyl Tin or element(Ex. Antimony、Beryllium、Silicon、Zinc or Phosphorus respectively). The MDL is evaluated for Tributyl Tin, Triphenyl Tin or element (Ex. Antimony、Beryllium、Silicon、Zinc or Phosphorus respectively.))
9. 石棉測試由SGS其他實驗室執行 (The Asbestos test was subcontracted to other SGS Laboratory.)
10. 聚氯乙烯測試由SGS其他實驗室執行 (The PVC test was subcontracted to other SGS Laboratory.)
11. 紅磷定性分析測試由SGS其他實驗室執行 (The Red Phosphorus test was subcontracted to other SGS Laboratory.)

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德國產品安全委員會(AfPS) GS PAHs 要求 / AfPS (German commission for Product Safety): GS PAHs requirements

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)		第3類 (Category 3)	
	意圖放入嘴內的材料或玩具會與皮膚有所接觸(超過30秒). (Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).)	不屬於第1類的材料並可預見與皮膚接觸逾30秒(長期或經常與皮膚接觸). (Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term skin or frequent contact).)		可預見與皮膚接觸短於30秒(短期與皮膚接觸), 以及不屬於第1類或第2類的材料. (Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact).)	
		列於2009/48/EC之玩具 (Toy under 2009/48/EC)	列於德國產品安全法之其他產品 (Other products under ProdSG)	列於2009/48/EC之玩具 (Toy under 2009/48/EC)	列於德國產品安全法之其他產品 (Other products under ProdSG)
Naphthalene	< 1	< 2		< 10	
Acenaphthylene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Acenaphthene					
Fluorene					
Phenanthrene					
Anthracene					
Fluoranthene					
Pyrene					
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
18項PAH總濃度 (Sum of 18 PAH)	< 1	< 5	< 10	< 20	< 50

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測試報告 Test Report

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國巨股份有限公司楠梓分公司(國巨/飛元/華亞)
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PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm), 在半成品、成品或零部件中不得超過0.1%(1000ppm), 在紡織品或塗層材料中不得超過 $1\mu\text{g}/\text{m}^2$ 。(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu\text{g}/\text{m}^2$.)

全氟辛烷磺酸指全氟辛烷磺酸和它的衍生物包括全氟辛烷磺酸, 全氟辛基磺醯胺, N-甲基全氟辛烷磺醯胺, N-乙基全氟辛烷磺醯胺, N-甲基全氟辛基磺醯基氨基乙醇, N-乙基全氟辛基磺醯基氨基乙醇。(PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.)

測試報告 Test Report

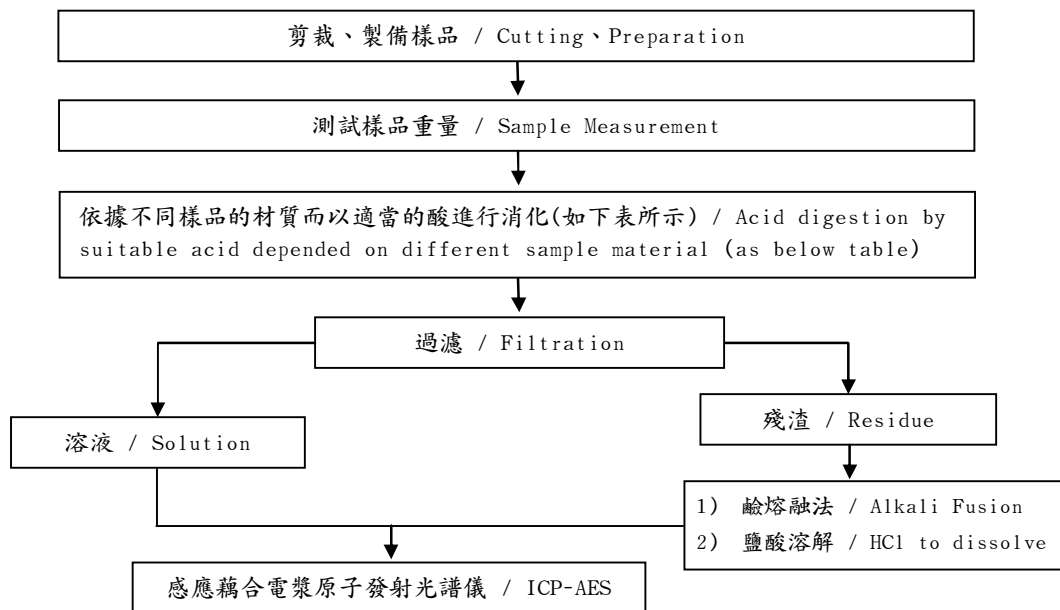
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員：劉俊宏 / Name of the person who made measurement: Jony Liu
- 3) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
玻璃 / Glass	硝酸,氫氟酸 / HNO ₃ /HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO ₃
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion

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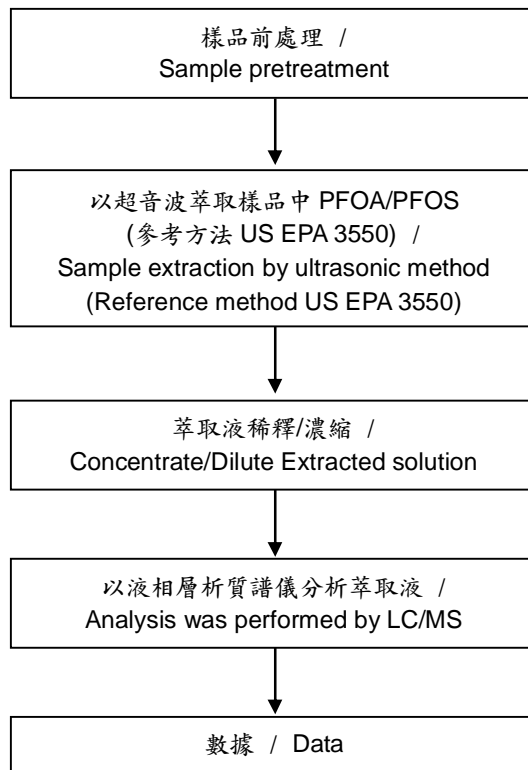
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全氟辛酸(銨)/全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

- 1)測試人員：黃璟璵 / Name of the person who made measurement: Ginny Huang
2)測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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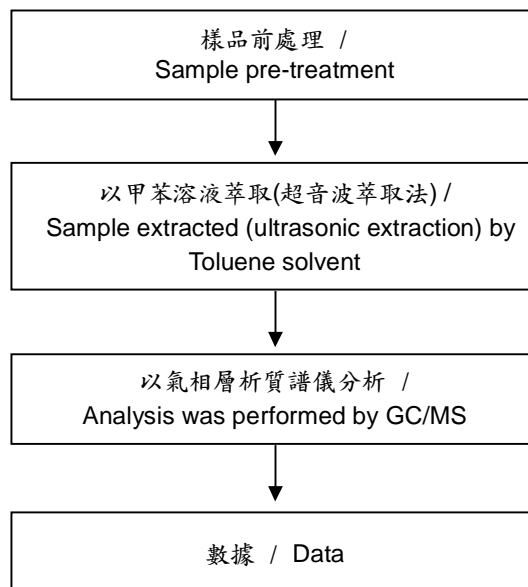
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多苯環芳香族化合物分析流程圖 / PAHs (Poly Aromatic Hydrocarbons) analytical flow chart

- 1)測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2)測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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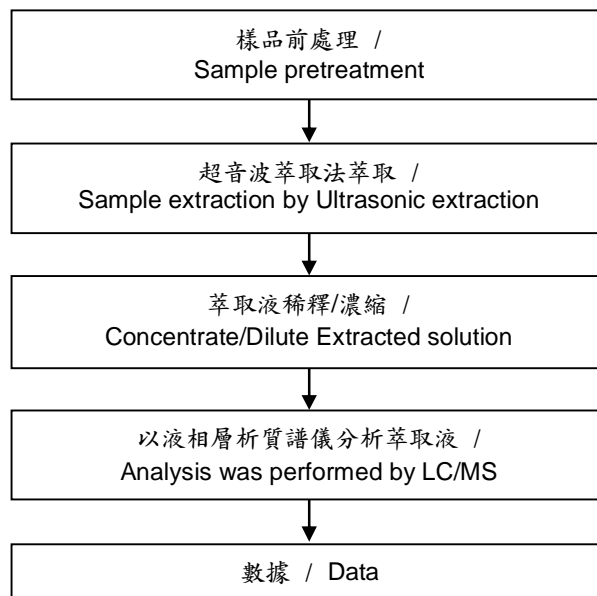
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四溴雙酚-A分析流程圖 / TBBP-A analytical flow chart

- 測試人員：黃璟璵 / Name of the person who made measurement: Ginny Huang
- 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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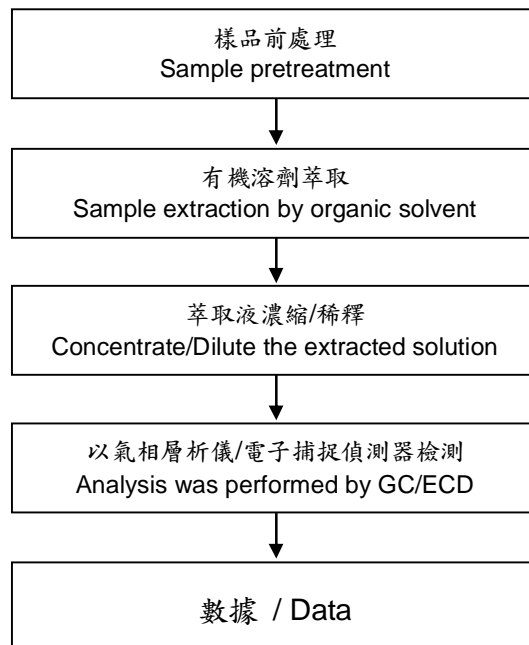
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含氯阻燃劑分析流程 /

Chlorinated Flame retardant analytical flow chart

- 1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang

- 參考方法(Reference method): USEPA 3540
- 測試項目(Test Items): PCBs, CP, MCCP / 多氯聯苯, 氯化石蠟, 中鏈氯化石蠟



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測試報告 Test Report

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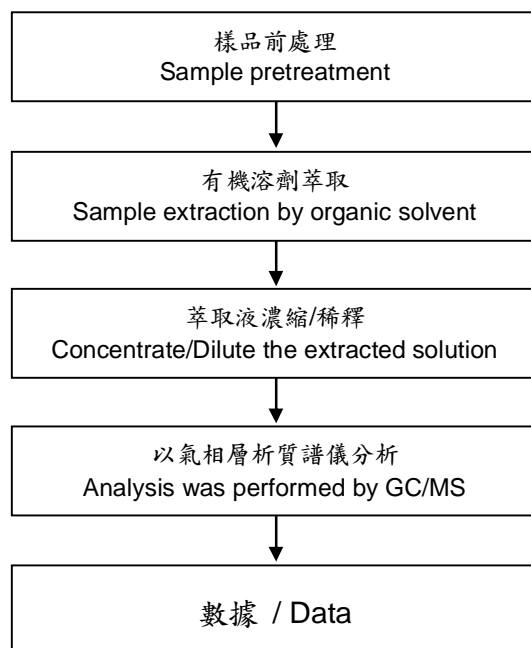
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含氯阻燃劑分析流程 /

Chlorinated Flame retardant analytical flow chart

- 1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang

- 參考方法(Reference method): US EPA 8270D, US EPA 3540
- 測試項目(Test Items): PCNs, PCTs, Mirex / 多氯奈, 多氯三聯苯, 滅蟻靈,



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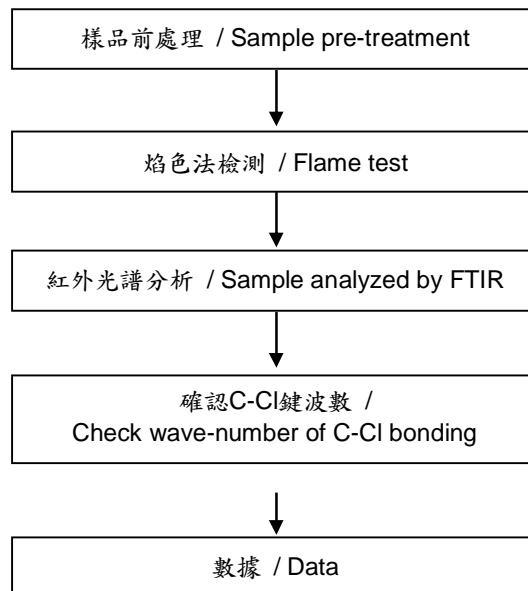
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聚氯乙烯物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

- 1)測試人員：戴秀純 / Name of the person who made measurement: Hannah Tai
2)測試負責人：林立翔 / Name of the person in charge of measurement: Roger Lin



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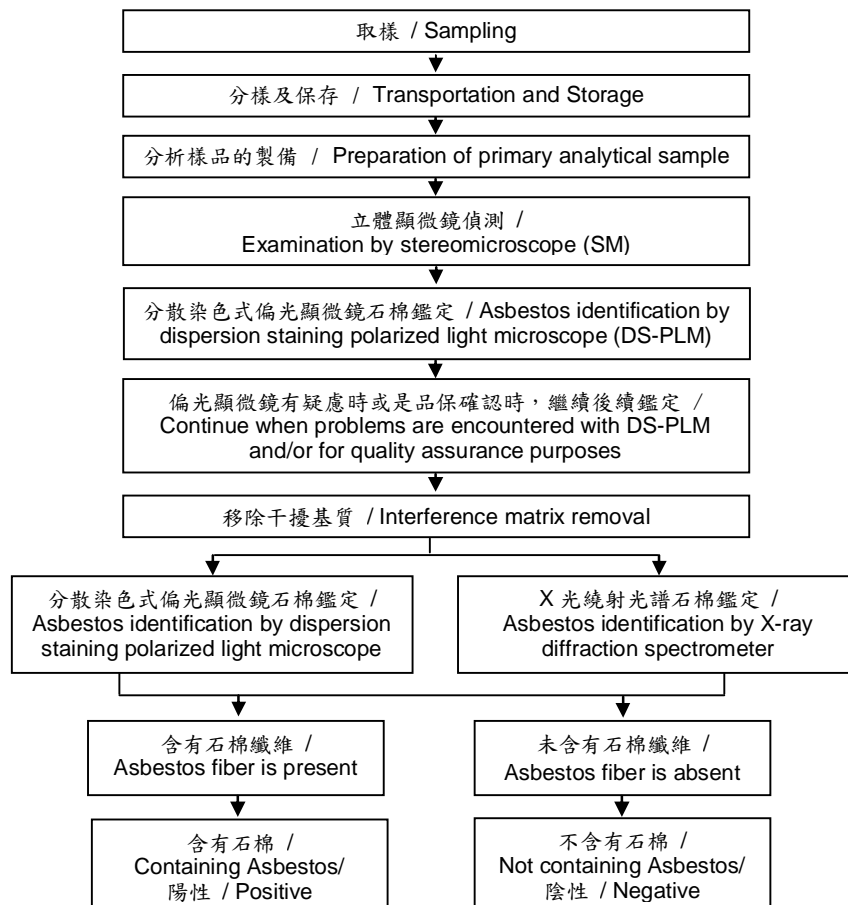
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石棉鑑定分析流程圖 / Analysis flow chart for determination of Asbestos

- 測試人員：高鍵忠 / Name of the person who made measurement: Victor Kao
- 測試負責人：魏明芬 / Name of the person in charge of measurement: Wendy Wei

【參考方法(Reference method): EPA 600/R-93/116】



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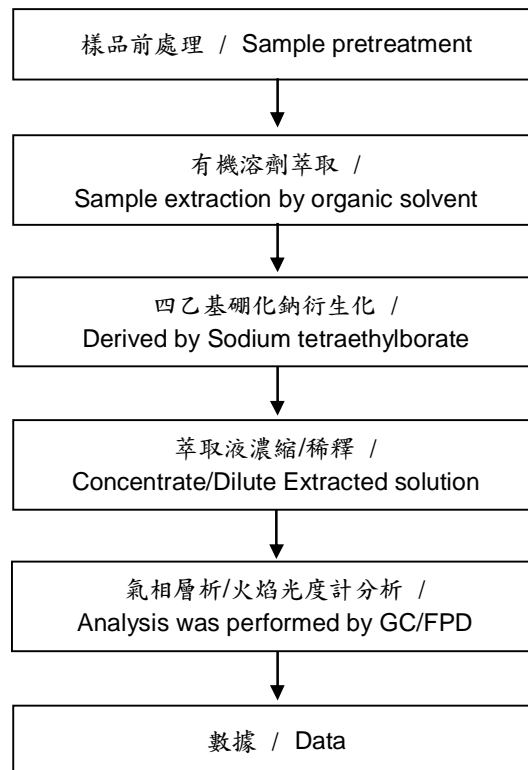
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有機錫分析流程圖 / Analytical flow chart of Organic-Tin content

- 1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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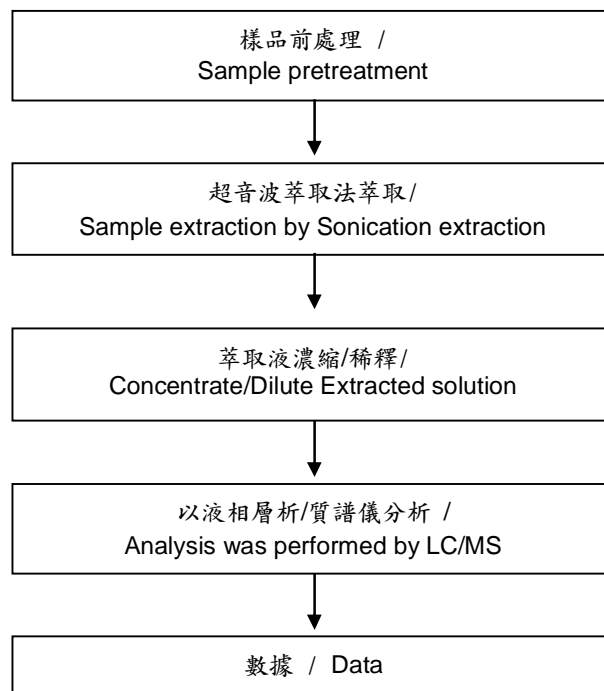
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雙酚A分析流程圖 / Bisphenol A analytical flow chart

- 測試人員：黃環璽 / Name of the person who made measurement: Ginny Huang
- 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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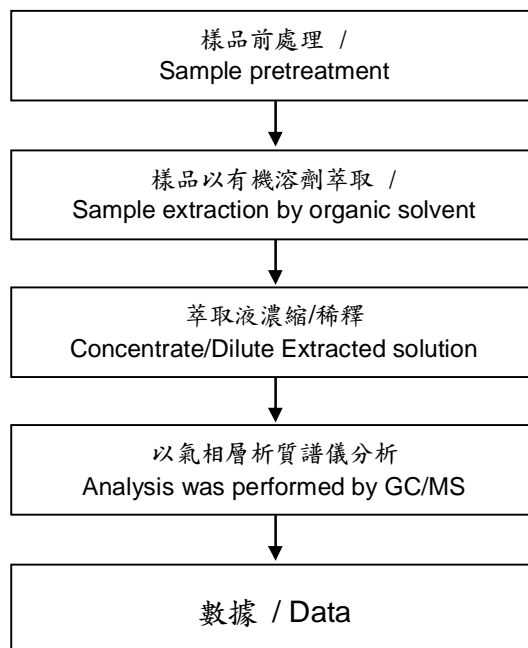
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富馬酸二甲酯分析流程圖 /

Analytical flow chart of Dimethyl Fumarate content

- 1) 測試人員：陳威鋒 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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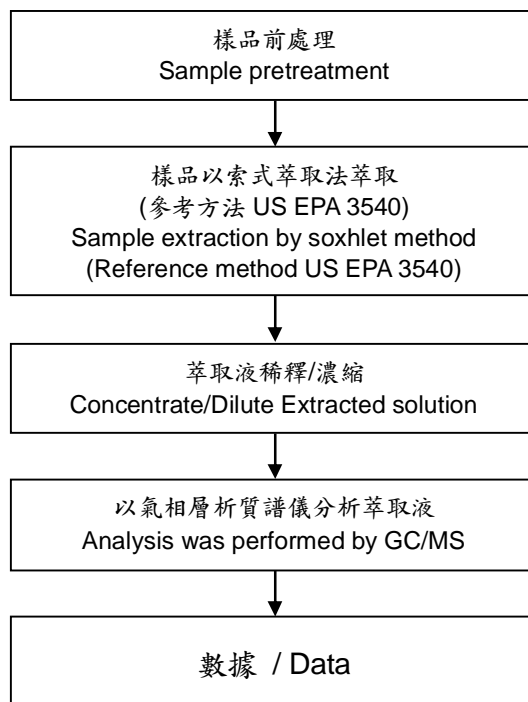
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苯並三唑類化合物分析流程圖 / Analytical flow chart of benzotriazole content

- 1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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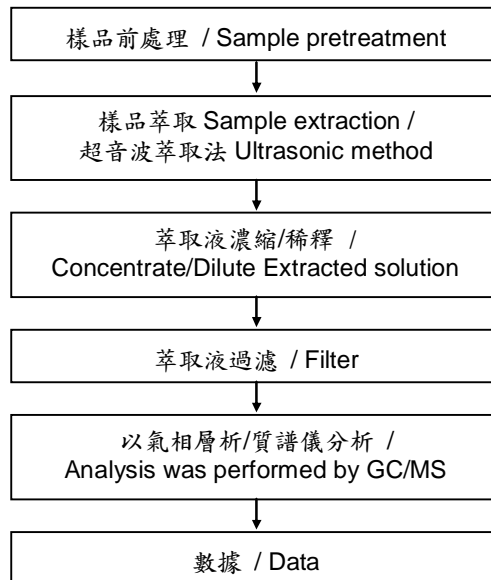
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 測試人員：陳威錚/ Name of the person who made measurement: Dorothy Chen
- 測試負責人：張伯睿/ Name of the person in charge of measurement: Ray Chang



化學實驗室-高雄 Chemical Laboratory - Kao., SGS Taiwan Ltd.

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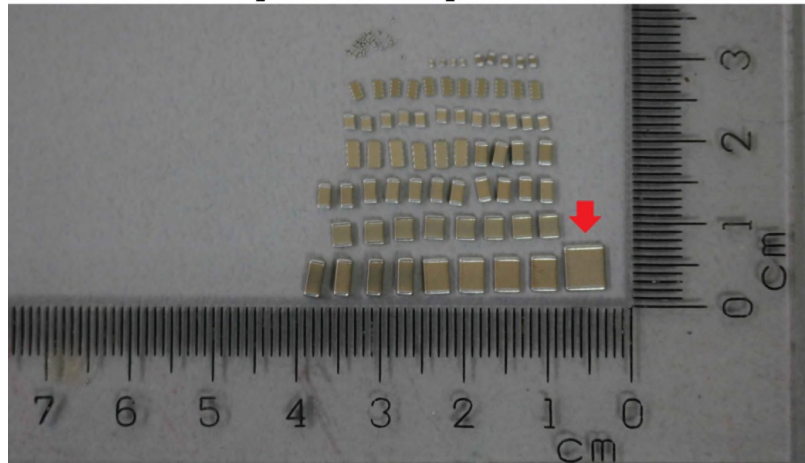
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(The tested sample / part is marked by an arrow if it's shown on the photo.)

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