

**Test Report** 

號碼(No.): EKR24101396 日期(Date): 30-Jan-2024 頁數(Page): 1 of 17

光頡科技股份有限公司高雄分公司 (VIKING TECH CORPORATION KAOHSIUNG BRANCH) 高雄市前鎮區新生路248-3號 (NO. 284-3, SIN-SHENG RD., CIAN-JHEN DIST., KAOHSIUNG, 806, TAIWAN)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as):

送樣廠商(Sample Submitted By) : 光頡科技股份有限公司高雄分公司 (VIKING TECH CORPORATION KAOHSIUNG

BRANCH)

樣品名稱(Sample Name) : GREEN CHIP RESISTOR

樣品型號(Style/Item No.) : CRG/CRG..A/HVRG/HVRG..A/ASG/ASG..A SERIES

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收件日(Sample Receiving Date) : 23-Jan-2024

測試期間(Testing Period) : 23-Jan-2024 to 30-Jan-2024

測試需求(Test Requested) : 依據客戶要求進行測試,測試項目請參閱測試結果表格。 (Testing item(s) is/are

specified by client. Please refer to result table for testing item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

報告簽署人/張伯睿 博士/部 图理**SGS**Ray Chang, Ph.D./ Department Manager
Signed for and on behalf
SGS TAIWAN LTD.

化學實驗室-高雄/Chemical Laboratory-Kaohsiung

CHECK PEPORT P

PIN CODE: 49CDD988



## **Test Report**

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光頡科技股份有限公司高雄分公司 (VIKING TECH CORPORATION KAOHSIUNG BRANCH) 高雄市前鎮區新生路248-3號 (NO. 284-3, SIN-SHENG RD., CIAN-JHEN DIST., KAOHSIUNG, 806, TAIWAN)

#### 測試部位敘述 (Test Part Description)

No.1 : 整體混測 (MIXED ALL PARTS)

#### 測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013 · 以感應耦合電漿	mg/kg	2	n.d.
	發射光譜儀分析。(With reference to IEC			
	62321-5: 2013, analysis was performed			
	by ICP-OES.)			
鉛 (Pb) (Lead (Pb))	參考IEC 62321-5: 2013 · 以感應耦合電漿	mg/kg	2	n.d.
	發射光譜儀分析。(With reference to IEC			
	62321-5: 2013, analysis was performed			
	by ICP-OES.)			
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013+ AMD1: 2017 ·	mg/kg	2	n.d.
	以感應耦合電漿發射光譜儀分析。(With			
	reference to IEC 62321-4: 2013+ AMD1:			
	2017, analysis was performed by ICP-			
	OES.)			
六價鉻 Cr(VI) (Hexavalent Chromium	參考IEC 62321-7-2: 2017 · 以紫外光-可見	mg/kg	8	n.d.
Cr(VI))	光分光光度計分析。(With reference to			
	IEC 62321-7-2: 2017, analysis was			
	performed by UV-VIS.)			
一溴聯苯 (Monobromobiphenyl)		mg/kg	5	n.d.
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.
四溴聯苯 (Tetrabromobiphenyl)	┃ ●参考IEC 62321-6: 2015,以氣相層析儀/質	mg/kg	5	n.d.
五溴聯苯 (Pentabromobiphenyl)	普儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by	mg/kg	5	n.d.
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.
七溴聯苯 (Heptabromobiphenyl)	GC/MS.)	mg/kg	5	n.d.
八溴聯苯 (Octabromobiphenyl)	3 c, 1113.)	mg/kg	5	n.d.
九溴聯苯 (Nonabromobiphenyl)	_	mg/kg	5	n.d.
十溴聯苯 (Decabromobiphenyl)	_	mg/kg	5	n.d.
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.



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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	n.d.
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.
四溴聯苯醚 (Tetrabromodiphenyl ether)	] - 參考IEC 62321-6: 2015,以氣相層析儀/質	mg/kg	5	n.d.
五溴聯苯醚 (Pentabromodiphenyl ether)	iii 儀分析。(With reference to IEC 62321-	mg/kg	5	n.d.
六溴聯苯醚 (Hexabromodiphenyl ether)	6: 2015, analysis was performed by	mg/kg	5	n.d.
七溴聯苯醚 (Heptabromodiphenyl ether)	GC/MS.)	mg/kg	5	n.d.
八溴聯苯醚 (Octabromodiphenyl ether)	GC/ IVI3.)	mg/kg	5	n.d.
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl	參考IEC 62321-8: 2017,以氣相層析儀/質	mg/kg	50	n.d.
phthalate (BBP))	譜儀分析。(With reference to IEC 62321-			
	8: 2017, analysis was performed by			
	GC/MS.)			
鄰苯二甲酸二丁酯 (DBP) (Dibutyl	參考IEC 62321-8: 2017 · 以氣相層析儀/質	mg/kg	50	n.d.
phthalate (DBP))	譜儀分析。(With reference to IEC 62321-			
	8: 2017, analysis was performed by			
	GC/MS.)			
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl	參考IEC 62321-8: 2017,以氣相層析儀/質	mg/kg	50	n.d.
phthalate (DIBP))	譜儀分析。(With reference to IEC 62321-			
	8: 2017, analysis was performed by			
	GC/MS.)			
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-	參考IEC 62321-8: 2017,以氣相層析儀/質	mg/kg	50	n.d.
(2-ethylhexyl) phthalate (DEHP))	譜儀分析。(With reference to IEC 62321-	3. 3		
	8: 2017, analysis was performed by			
	GC/MS.)			
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl	参考IEC 62321-8: 2017,以氣相層析儀/質	mg/kg	50	n.d.
phthalate (DINP)) (CAS No.: 28553-12-	譜儀分析。(With reference to IEC 62321-	בי יכ	-	
0, 68515-48-0)	8: 2017, analysis was performed by			
1, 111 1 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	GC/MS.)			
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測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl	參考IEC 62321-8: 2017 · 以氣相層析儀/質	mg/kg	50	n.d.
phthalate (DIDP)) (CAS No.: 26761-40-	譜儀分析。(With reference to IEC 62321-			
0, 68515-49-1)	8: 2017, analysis was performed by			
	GC/MS.)			
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl	参考IEC 62321-8: 2017 · 以氣相層析儀/質	mg/kg	50	n.d.
phthalate (DNOP)) (CAS No.: 117-84-0)	譜儀分析。(With reference to IEC 62321-			
	8: 2017, analysis was performed by			
	GC/MS.)			
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-	參考BS EN 14582: 2016 · 以離子層析儀分	mg/kg	50	n.d.
8)	析。(With reference to BS EN 14582:			
	2016, analysis was performed by IC.)			
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-	參考BS EN 14582: 2016,以離子層析儀分	mg/kg	50	n.d.
15-1)	析。(With reference to BS EN 14582:			
	2016, analysis was performed by IC.)			
溴 (Br) (Bromine (Br)) (CAS No.: 10097-	参考BS EN 14582: 2016 · 以離子層析儀分	mg/kg	50	n.d.
32-2)	析。(With reference to BS EN 14582:			
	2016, analysis was performed by IC.)			
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)	参考BS EN 14582: 2016 · 以離子層析儀分	mg/kg	50	n.d.
	析。(With reference to BS EN 14582:			
	2016, analysis was performed by IC.)			
六溴環十二烷及所有主要被辨別出的異構	參考IEC 62321: 2008 · 以氣相層析儀/質譜	mg/kg	5	n.d.
物(HBCDD) (α- HBCDD, β- HBCDD, γ-	儀分析。(With reference to IEC 62321:			
HBCDD) (Hexabromocyclododecane	2008, analysis was performed by			
(HBCDD) and all major	GC/MS.)			
diastereoisomers identified ( $\alpha$ - HBCDD,				
β- HBCDD, γ- HBCDD)) (CAS No.:				
25637-99-4, 3194-55-6 (134237-51-7,				
134237-50-6, 134237-52-8))				



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(Method) (Unit) (Result)	測試項目	測試方法	單位	MDL	結果
### ### ### ### ### ### ### ### ### ##	(Test Items)	(Method)	(Unit)		(Result)
(Perfluorooctanoic acid (PFOA) and it's salt) (CAS No.: 335-67-1 and its salts) (CAS No.: 335-67-1 and its salts) (CAS No.: 335-67-1 and its salts) を					No.1
Salt) (CAS No.: 335-67-1 and its salts)  全氧辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)  参考CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)  参考CEN/TS 15968: 2010 以液相層析串 mg/kg 0.01 n.d.  参考US EPA 3052: 1996 · 以感應耦合電漿 發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)  参考US EPA 3052: 1996, analysis was performed by ICP-OES.)  参考US EPA 3052: 1996, analysis was performed by ICP-OES.)  参考US EPA 3052: 1996 · 以感應耦合電漿 發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)  参考US EPA 3052: 1996 · 以感應耦合電漿 發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)  参考US EPA 3052: 1996 · 以感應耦合電漿 發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)  参考US EPA 3052: 1996 · 以感應耦合電漿 發射 ICP-OES.)  参考US EPA 3052: 1996 · 以感應耦合電漿 發射 ICP-OES.)  参考US EPA 3052: 1996 · 以感應耦合電漿 微信(PFO) · ICP-OES.)  参考US EPA 3052: 1996 · 以感應耦合電漿 發射 ICP-OES.)  参考US EPA 3052: 1996 · 以感應耦合電漿 發射 ICP-OES.)  参考US EPA 3052: 1996 · 以感應耦合電漿 Wigh ICP-OES.)  参考US EPA 3052: 1996 · 以感應耦合電漿 分析。(With reference to US EPA 3052: 1996 · 以感應耦合電漿 分別 · ICP-OES.)  参考US EPA 3052: 1996 · 以感應耦合電漿 分別 · ICP-OES.)  参考US EPA 3052: 1996 · 以感應耦合電漿 Mg/kg ICP-OES.)  参考US EPA 3052: 1996 · 以感應器合電漿 Mg/kg ICP-OES.)  参考US EPA 3052: 1996 · 以感應器合電漿 Mg/kg ICP-OES.)  参考	全氟辛酸 (PFOA)及其鹽類	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.
全無辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts) (CAS No.: 1763-23-1 and its salts) (CAS No.: 1763-23-1 and its salts) (安考CEN/TS 15968: 2010・以液相層析串	(Perfluorooctanoic acid (PFOA) and it's	聯質譜儀分析。(With reference to			
全氣辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts) (CAS No.: 15968: 2010 · 以液相層析串 聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.) 参考US EPA 3052: 1996 · 以感應耦合電漿 愛射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.) 参考US EPA 3052: 1996 · 以感應耦合電漿 愛射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.) 参考US EPA 3052: 1996 · 以感應耦合電漿 發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.) 参考US EPA 3052: 1996 · 以感應耦合電漿 發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.) 参考US EPA 3052: 1996 · 以感應耦合電漿 發射光譜像分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	salt) (CAS No.: 335-67-1 and its salts)	CEN/TS 15968: 2010, analysis was			
salts) (CAS No.: 1763-23-1 and its salts)  勝質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)  第 (Sb) (Antimony (Sb)) (CAS No.: 7440- 参考US EPA 3052: 1996・以感應耦合電漿 致射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)  参考US EPA 3052: 1996・以感應耦合電漿 致射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)  が (As) (Arsenic (As)) (CAS No.: 7440- 参考US EPA 3052: 1996・以感應耦合電漿 致射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)  が (As) (Arsenic (As)) (CAS No.: 7440- 参考US EPA 3052: 1996・以感應耦合電漿 致射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)  が (As) (Arsenic (As)) (CAS No.: 77536- 66-4)  「 (As) (Arsenic (As)) (CAS No.: 77536- 68-4)  「 (As) (As (As) (Arsenic (As)) (CAS No.: 77536- 68-4)  「 (As) (As (As) (As (As) (As) (As (As)		performed by LC/MS/MS.)			
(Sb) (Antimony (Sb)) (CAS No.: 7440- 36-0) 参考US EPA 3052: 1996・以感應耦合電漿	全氟辛烷磺酸及其鹽類 (PFOS and its	參考CEN/TS 15968: 2010 · 以液相層析串	mg/kg	0.01	n.d.
### Style (Sb) (Antimony (Sb)) (CAS No.: 7440-36-0)  ### Style EPA 3052: 1996・以感應耦合電漿 發射光譜儀分析。(With reference to US EPA 3052: 1996・以感應耦合電漿 数射光譜儀分析。(With reference to US EPA 3052: 1996・以感應耦合電漿 数射光譜儀分析。(With reference to US EPA 3052: 1996・以感應耦合電漿 3052: 1996・以应序中的 3052: 1996・以应序中的 3052: 1996・以应序相合电漿 3052: 1996・以应應耦合電漿 3052: 1996・以应應規格のではのによるによるによるによるによるによるによるによるによるによるによるによるによるに	salts) (CAS No.: 1763-23-1 and its salts)	聯質譜儀分析。(With reference to			
一方		CEN/TS 15968: 2010, analysis was			
36-0    日本		performed by LC/MS/MS.)			
### EPA 3052: 1996, analysis was performed by ICP-OES.)    数 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-	參考US EPA 3052: 1996,以感應耦合電漿	mg/kg	2	n.d.
by ICP-OES.	36-0)	發射光譜儀分析。(With reference to US			
w (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)		EPA 3052: 1996, analysis was performed			
### Page 12 Page 14 Page 14 Page 14 Page 15 Page 15 Page 15 Page 15 Page 15 Page 16		by ICP-OES.)			
EPA 3052: 1996, analysis was performed by ICP-OES.)  神 (As) (Arsenic (As)) (CAS No.: 7440-38-2)  参考US EPA 3052: 1996・以感應耦合電漿	鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-	參考US EPA 3052: 1996,以感應耦合電漿	mg/kg	2	n.d.
by ICP-OES.)  神 (As) (Arsenic (As)) (CAS No.: 7440-38-2)  参考US EPA 3052: 1996 · 以感應耦合電漿 發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)  石綿 (Asbestos)  陽起石綿 (Actinolite) (CAS No.: 77536-66-4)  楊石綿/鐵石綿 (Amosite) (CAS No.: 70536-66-4)  総方角閃石綿 (Anthophyllite) (CAS No.: 77536-67-5) 白石綿/溫石綿 (Chrysotile) (CAS No.: 12001-29-5) 青石綿 (Crocidolite) (CAS No.: 12001-28-4)  透閃石綿 (Tremolite) (CAS No.: 77536-	41-7)	發射光譜儀分析。(With reference to US			
## (As) (Arsenic (As)) (CAS No.: 7440-38-2)    参考US EPA 3052: 1996・以感應耦合電漿		EPA 3052: 1996, analysis was performed			
38-2)					
EPA 3052: 1996, analysis was performed by ICP-OES.)  石綿 (Asbestos)  陽起石綿 (Actinolite) (CAS No.: 77536-66-4)  褐石綿/鐵石綿 (Amosite) (CAS No.: 微鏡(SM)與分散染色式偏光顯微鏡(DS-PLM)及X光繞射光譜分析法(XRD)分析。 (With reference to EPA 600/R-93/116: 1993, analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).)  EPA 3052: 1996, analysis was performed by ICP-OES.)  - Negative -			mg/kg	2	n.d.
by ICP-OES.)  石綿 (Asbestos)  陽起石綿 (Actinolite) (CAS No.: 77536-66-4)  褐石綿/鐵石綿 (Amosite) (CAS No.: 微鏡(SM)與分散染色式偏光顯微鏡(DS-PLM)及X光繞射光譜分析法(XRD)分析。(With reference to EPA 600/R-93/116: 1993, analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).)    Ask (Asbestos)	38-2)	· · · · · · · · · · · · · · · · · · ·			
石綿 (Asbestos)   陽起石綿 (Actinolite) (CAS No.: 77536-66-4)   褐石綿/鐵石綿 (Amosite) (CAS No.: 物鏡(SM)與分散染色式偏光顯微鏡(DS-PLM)及X光繞射光譜分析法(XRD)分析。 (With reference to EPA 600/R-93/116: 1993・以立體顯微鏡(DS-PLM)及X光繞射光譜分析法(XRD)分析。 (With reference to EPA 600/R-93/116: 1993, analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).)   透閃石綿 (Tremolite) (CAS No.: 77536-100   1993, analysis was performed by Stereo Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).)   1993・以立體顯微鏡(DS-PLM)					
陽起石綿 (Actinolite) (CAS No.: 77536-66-4)		by ICP-OES.)			
後考EPA 600/R-93/116: 1993·以立體顯微鏡(DS-12172-73-5)   常有開 (Anthophyllite) (CAS No.: 77536-67-5)   日本語 (Crocidolite) (CAS No.: 12001-28-4)   透閃石綿 (Tremolite) (CAS No.: 77536-					
褐石綿/鐵石綿 (Amosite) (CAS No.: 12172-73-5)  科方角閃石綿 (Anthophyllite) (CAS No.: 77536-67-5) 白石綿/溫石綿 (Chrysotile) (CAS No.: 12001-28-4) 透閃石綿 (Tremolite) (CAS No.: 77536-	, , ,		-	-	Negative
12172-73-5)HMMXX光繞射光譜分析法(XRD)分析。斜方角閃石綿 (Anthophyllite) (CAS No.:PLM)及X光繞射光譜分析法(XRD)分析。77536-67-5)(With reference to EPA 600/R-93/116: 1993, analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) 	,	參考EPA 600/R-93/116: 1993,以立體顯			N
斜方角閃石綿 (Anthophyllite) (CAS No.: 77536-67-5) 白石綿/溫石綿 (Chrysotile) (CAS No.: 12001-29-5) 青石綿 (Crocidolite) (CAS No.: 12001-28-4) 透閃石綿 (Tremolite) (CAS No.: 77536-		微鏡(SM)與分散染色式偏光顯微鏡(DS-	-	-	Negative
77536-67-5)(With reference to EPA 600/R-93/116.白石綿/溫石綿 (Chrysotile) (CAS No.:1993, analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).)Negative		PLM)及X光繞射光譜分析法(XRD)分析。			Negativo
白石綿/溫石綿 (Chrysotile) (CAS No.: 12001-29-5)1995, analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).)-Negative透閃石綿 (Tremolite) (CAS No.: 77536Negative		(With reference to EPA 600/R-93/116:	-	-	negative
12001-29-5)Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).)-Negative		1993, analysis was performed by Stereo			Negative
青石綿 (Crocidolite) (CAS No.: 12001- 28-4)Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).)-Negative透閃石綿 (Tremolite) (CAS No.: 77536Negative	1	1	-	=	inegative
28-4) and X-ray Diffraction Spectrometer (XRD).) - Negative			_	_	Negative
透閃石綿 (Tremolite) (CAS No.: 77536- (XRD).) Negative	1 ' '	· ·			, regulive
		(XRD).)	-	_	Negative
	[68-6]				



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#### 備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. 石綿定性分析試驗範圍: <0.1%~100%,石綿鑑定的判定基準是以檢出含有石綿纖維為『Positive』,未檢出石綿纖維為『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".)
- 6. 樣品的測試是基於申請人要求混合測試,報告中的混合測試結果不代表其中個別單一材質的含量。
  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.



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#### PFAS Remark:

現有PFAS定量技術是分析PFAS物質的特定結構,但同碳數族群之PFAS酸及鹽類物質,其可被辨識的特定結構相同,因此無法區別所分析的特定結構是來自酸或者鹽類,故測試結果為同碳數族群之PFAS之酸及鹽類物質的濃度總合。下表PFAS物質濃度皆已包含在測試結果中,相關資訊請參見下表:(下表列舉PFAS物質僅為範例,並不包含所有同碳數族群之PFAS鹽類。)

(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
	全氟辛烷磺酸 (Perfluorooctane sulfonates) (PFOS)	1763-23-1
	全氟辛基磺酸鉀 (PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	全氟辛基磺酸鋰 (PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	全氟辛基磺酸銨 (PFOS- $NH_4$ ) Perfluorooctanesulfonic acid, ammonium salt (PFOS- $NH_4$ )	29081-56-9
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛基磺酸二乙醇銨 (PFOS-NH(OH) <sub>2</sub> ) Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) <sub>2</sub> )	70225-14-8
	全氟辛基磺酸四乙基銨 (PFOS-N( $C_2H_5$ ) <sub>4</sub> ) Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N( $C_2H_5$ ) <sub>4</sub> )	56773-42-3
	全氟辛基磺酸二癸二甲基銨 (PFOS-DDA) N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1- sulfonate (PFOS-DDA)	251099-16-8



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群組名稱	物質名稱	CAS No.
(Group Name)	(Substance Name)	
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛基磺醯氟 (POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	全氟辛基磺酸鎂 (PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	全氟辛基磺酸鈉 (PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	全氟辛烷磺酸哌啶 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctanesulfonate	71463-74-6
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	全氟辛酸 (Perfluorooctanoic acid) (PFOA)	335-67-1
	全氟辛酸鈉 (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	全氟辛酸鉀 (PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	全氟辛酸銀 (PFOA-Ag) Silver perfluorooctanote (PFOA-Ag)	335-93-3
	全氟辛氟 (PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	全氟辛酸銨 (APFO) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	全氟辛酸鋰 (PFOA-Li) Lithium perfluorooctanoate (PFOA-Li)	17125-58-5



## **Test Report**

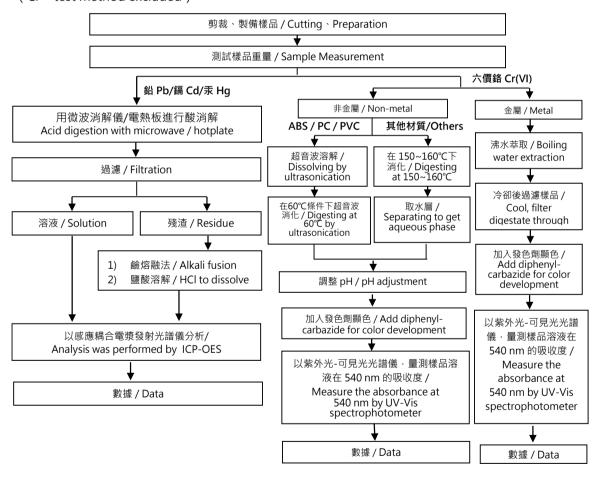
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#### 重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. ( $Cr^{6+}$  test method excluded)



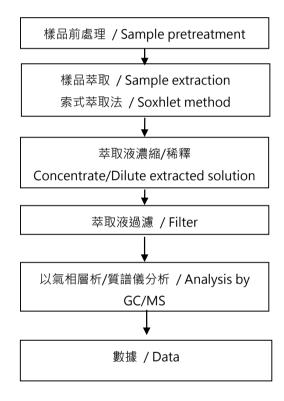


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#### 多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART





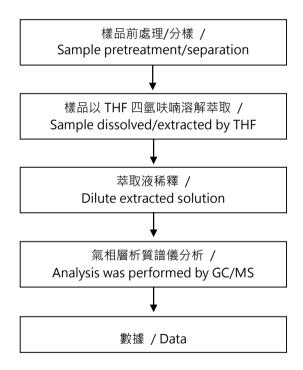
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#### 可塑劑分析流程圖 / Analytical flow chart of phthalate content

【測試方法/Test method: IEC 62321-8】



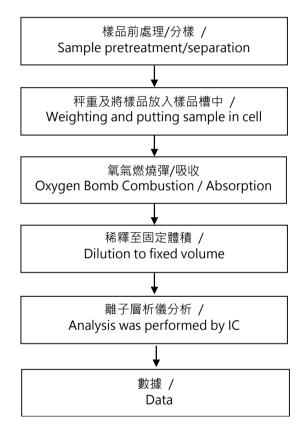


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#### 鹵素分析流程圖 / Analytical flow chart of Halogen



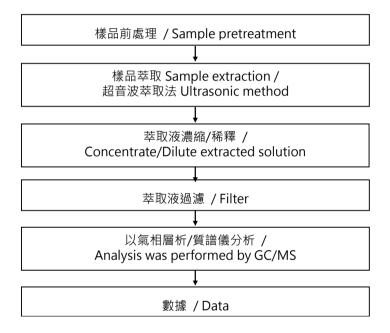


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#### 六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



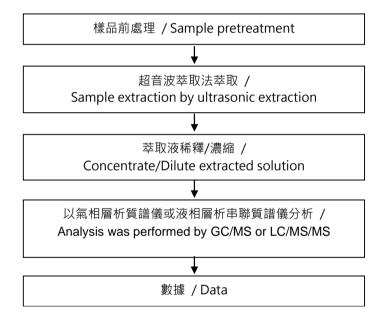


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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)





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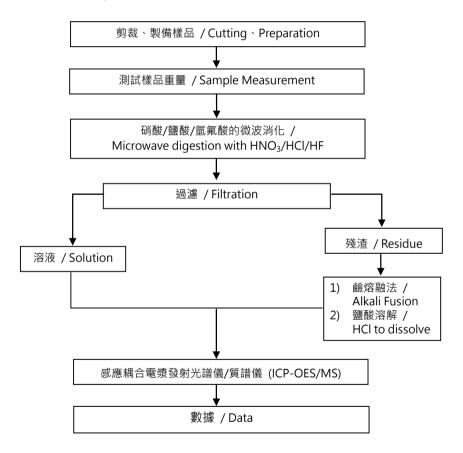
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#### 元素(含重金屬)分析流程圖 / Analytical flow chart of Elements (Heavy metal included)

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.

【參考方法/Reference method: US EPA 3051、US EPA 3052】



\* US EPA 3051 方法未添加氫氟酸 / US EPA 3051 method does not add HF.

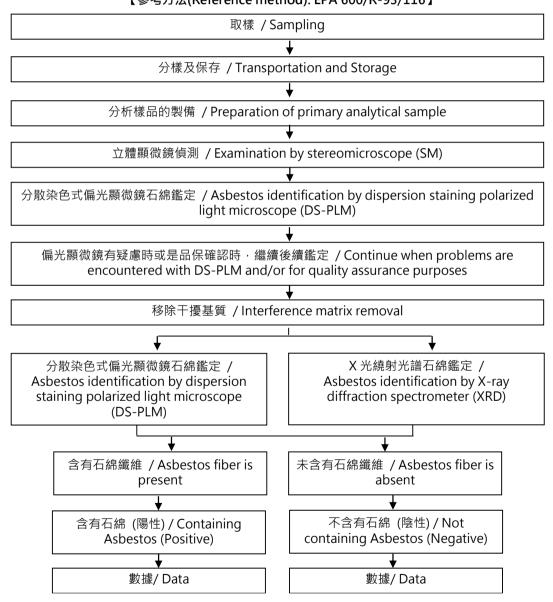


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### 石綿鑑定分析流程圖 / Analysis flow chart for determination of Asbestos 【參考方法(Reference method): EPA 600/R-93/116】





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\* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. \* (The tested sample / part is marked by an arrow if it's shown on the photo.)

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\*\* 報告結尾 (End of Report) \*\*