

寶 號
CUSTOMER

MARITEX



承 認 書

SPECIFICATION FOR APPROVAL

品名
PRODUCT NAME FBCA-A78-302540-L-T

客戶料號 批號
CUSTOMER PART NO. SAMPLE NO.

日期
DATE. 2013/08/05, 2024/08/08 update

Customer Approved Status 客戶承認範圍

FULLY APPROVED (全部承認)	PARTILLY APPROVED (部份承認)	REVISE APPROVED (修訂承認)
Drawn by	Checked by	Approved by
陳文欣	吳明珠	吳炳勳



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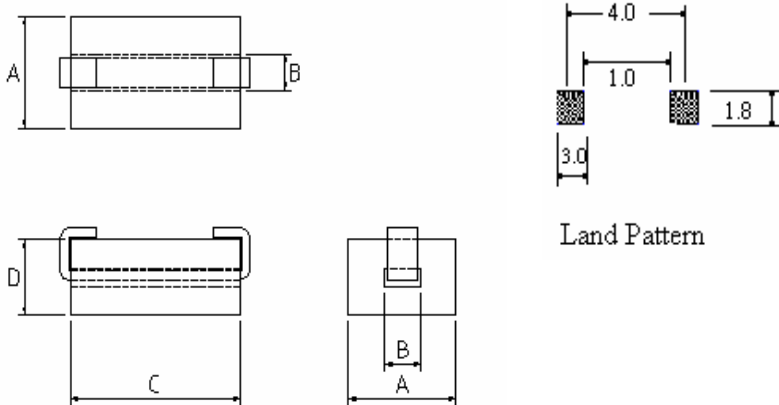
承認書內容 CONTENTS

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製作 DRAWN BY: 陳雲欣	確認 CHECKED BY: 吳明珠	承認 APPROVED BY: 吳炳勳

修訂履歷 REVISION RESUME

日期 DATE	版次 VERSION	修訂目的 PURPOSE	修訂內容概述 REVISION DESCRIPTION	備註 REMARK
2013/08/05	A	首次送樣 INITIAL RELEASE		
2024/08/08	A	1.SGS 過期	1.SGS 更新 2.封面更新	
製作 DRAWN BY: 陳雯欣		確認 CHECKED BY: 吳明珠		承認 APPROVED BY: 吳炳勳

SPECIFICATION FOR APPROVAL

CUSTOMER:	MARITEX	CUST.P/N:
ORDERING CODE:	FBCA-A78-302540-L-T	K.C.P/N: PM3001AT
<p>(1) SHAPE :</p> 		A 3.0±0.2 mm
		B 1.45±0.10 mm
		C 4.00±0.25 mm
		D 2.55±0.15 mm
		E mm
		F mm
		G mm
<p>(2) ELECTRICAL REQUIREMENTS:</p> <p>$Z_1 = 17 \text{ min OHM AT } 25 \text{ MHz}$</p> <p>$Z_2 = 32 \text{ min OHM AT } 100 \text{ MHz}$</p> <p>IDC: $\Delta T_{40^\circ\text{C}} = 6\text{A(max)}$</p>		<p>(3) TEST CONDITIONS:</p> <p>1 IMPEDANCE ANALYZER: E4991A</p> <p>TEST FIXTURE: HP16092A</p> <p>2.WIRE: $\Phi 0.2 \text{ T.C.W} \times 1.27 \times 9\text{mm} \times 1/2\text{Ts}$</p>
<p>(4) PACKING</p> <p><input type="checkbox"/> IN BULK <input type="checkbox"/> VACUUM <input type="checkbox"/> INSERTION</p> <p>PCS/BAG* BAGS/INNER BOX BOXES/CARTON = PCS</p> <p>PCS/PLATE* PLATES/CARTON= PCS</p> <p>PCS/TRAY* TRAYS/CARTON= PCS</p> <p>500 PCS/REEL *4 REELS/INNER BOX* 10BOXES/CARTON=20000PC</p>		<p>(5) APPEARANCE</p> <p style="text-align: center;">Less Than 3 Chips Per 10mm²</p>
<p>(6) REMARK:</p>		Approved by 吴炳熙
		Checked by 吴明珠
		Drawn by 钟佩宜 2013/8/5
		DWG.NO. 20138012A

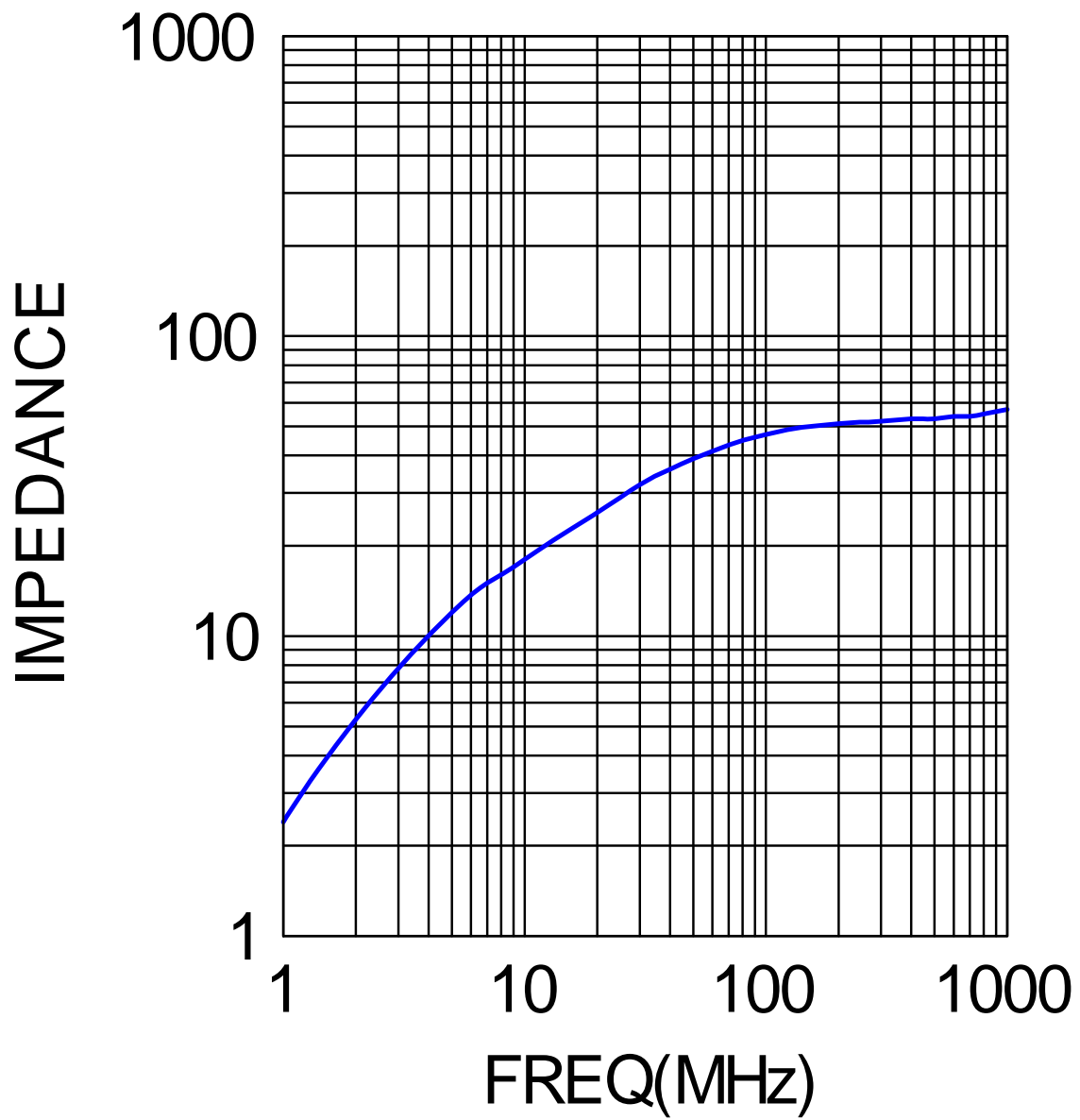
TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER	MARITEX			CUST. P/N		
ORDERING CODE	FBCA-A78-302540-L-T			K.C. P/N	PM3001AT	
TEMP.	24 °C	RH	69 %	DWG.NO.	20138012A	
WIRE	0.2x1.27x9mm T.C.W	WINDING	1/2 Ts	Q'TY	5PCS	
Test Instruments						
Meas. Item.	Z (OHM)	Z (OHM)	A mm	C mm	D mm	
Specification	17 min	32 min	3.0±0.2	4.00±0.25	2.55±0.15	
Test Freq.	25 MHz	100 MHz				
sample#1	29	47	3.05	3.98	2.50	
sample#2	30	48	3.06	3.98	2.49	
sample#3	28	46	3.04	4.00	2.51	
sample#4	29	47	3.05	3.99	2.50	
sample#5	29	47	3.06	3.98	2.52	
sample#6						
sample#7						
sample#8						
sample#9						
sample#10						
\bar{X}	29.0	47.0	3.052	3.986	2.504	
R	2	2	0.02	0.02	0.03	
REMARK:				Approved by: 吳炳勳		
				Checked by: 吳明珠		
				Drawn by: 鍾佩宜		

KING CORE ELECTRONICS INC.

PM3001AT-E4991A.A00

FBCA-A78-302540-L-T





測試報告

Test Report

號碼(No.): ETR23802800

日期(Date): 18-Aug-2023

頁數(Page): 1 of 12

鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

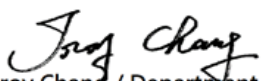
以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as) :


送樣廠商(Sample Submitted By) : 鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)
 樣品名稱(Sample Name) : WOUND CHIP BEAD
 樣品型號(Style/Item No.) : FBCA TYPE

=====
 收件日(Sample Receiving Date) : 11-Aug-2023
 測試期間(Testing Period) : 11-Aug-2023 to 18-Aug-2023

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.)


 Troy Chang / Department Manager
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei




PIN CODE: 517C5423

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測試報告

Test Report

號碼(No.): ETR23802800

日期(Date): 18-Aug-2023

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鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, 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 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
鉛 (Pb) (Lead (Pb))	參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013+ AMD1: 2017 · 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.)	mg/kg	2	n.d.
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	參考IEC 62321-7-2: 2017 · 以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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)		mg/kg	5	n.d.
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.
八溴聯苯 (Octabromobiphenyl)		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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Test Report

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鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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)		mg/kg	5	n.d.
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.
八溴聯苯醚 (Octabromodiphenyl ether)		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 phthalate (BBP))	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.
六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α- HBCDD, β- HBCDD, γ- HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	參考IEC 62321: 2008 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.

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桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	參考BS EN 14582: 2016 · 以離子層析儀分析。 (With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	n.d.
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	n.d.
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	參考US EPA 3550C: 2007 · 以液相層析串聯質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by LC/MS/MS.)	mg/kg	10	n.d.
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		mg/kg	10	n.d.
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-36-0)	參考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.)	mg/kg	2	n.d.
砷 (As) (Arsenic (As)) (CAS No.: 7440-38-2)		mg/kg	2	n.d.
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)		mg/kg	2	n.d.

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. 全氟辛烷磺酸及其鹽類包含等物質 (PFOS and its salts including) :
CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.
6. 全氟辛酸及其鹽類包含等物質 (PFOA and its salts including) :
CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.
7. 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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日期(Date): 18-Aug-2023

頁數(Page): 5 of 12

鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

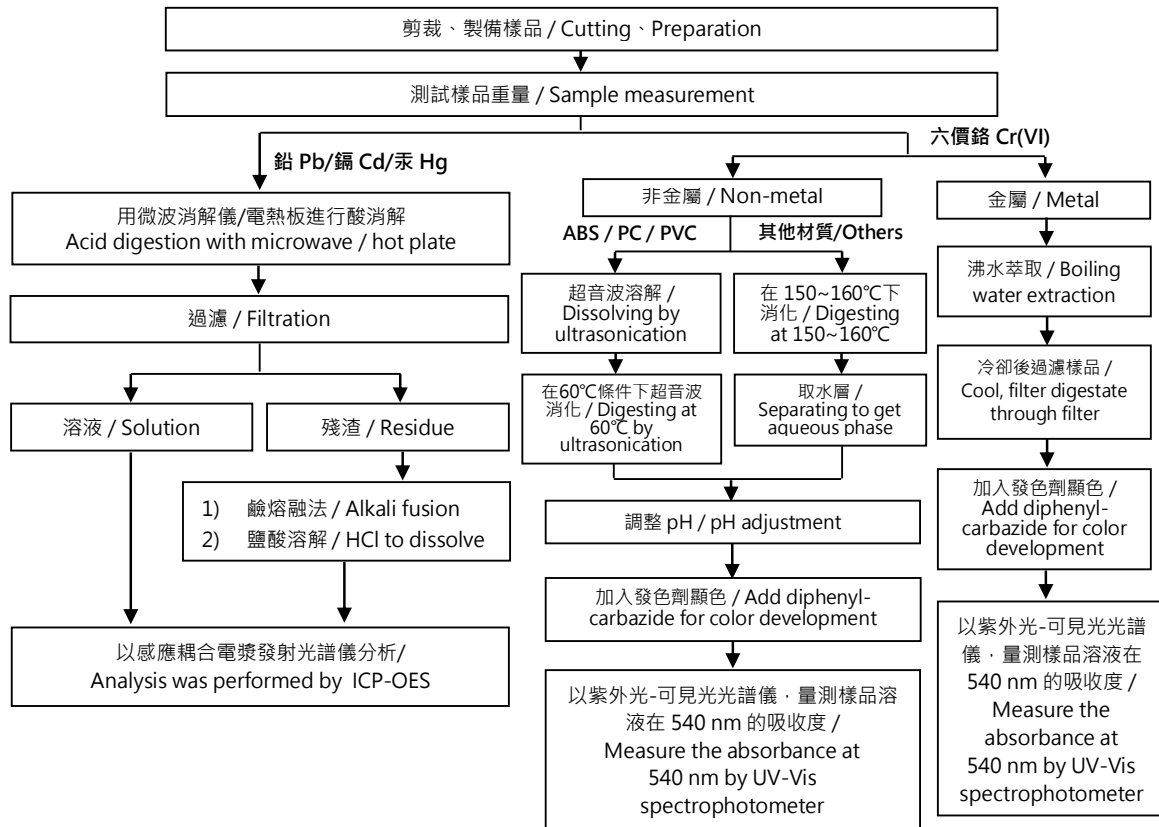
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重金屬流程圖 / Analytical flow chart of heavy metal

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.

(Cr⁶⁺ test method excluded)



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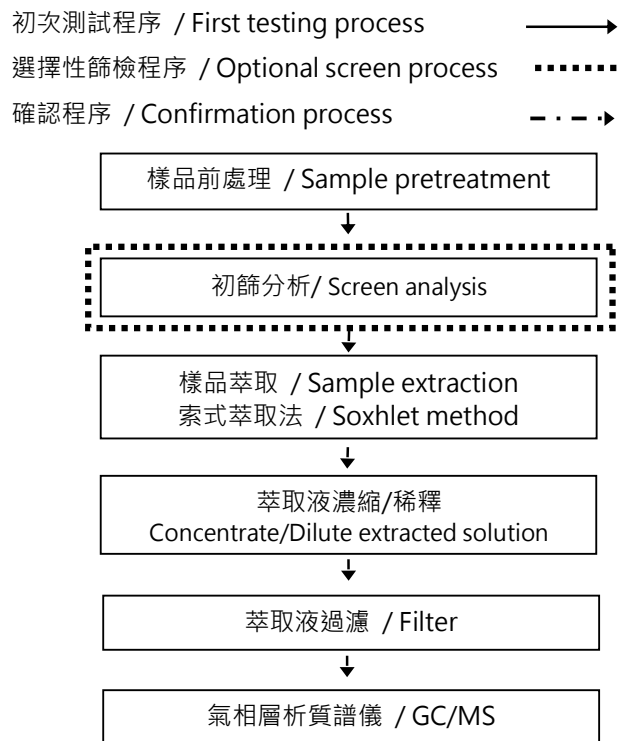
日期(Date): 18-Aug-2023

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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



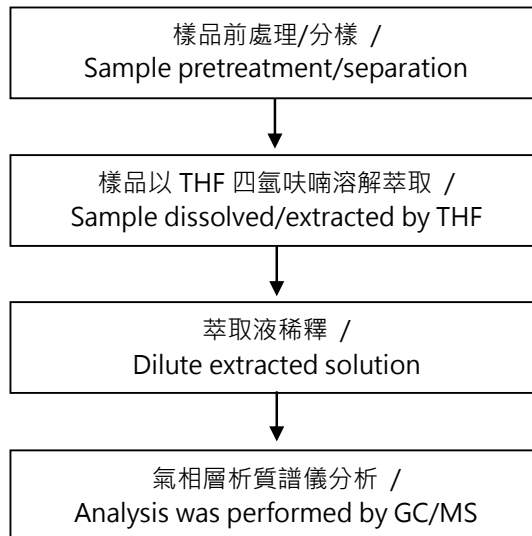
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】

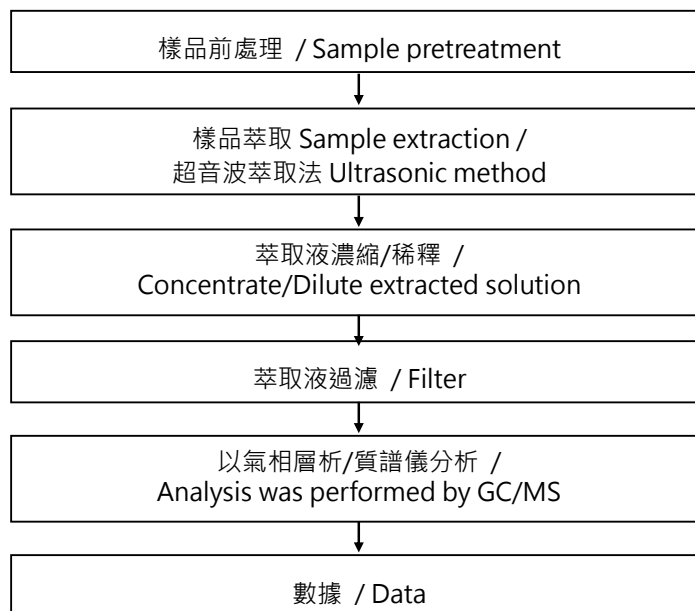


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鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

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

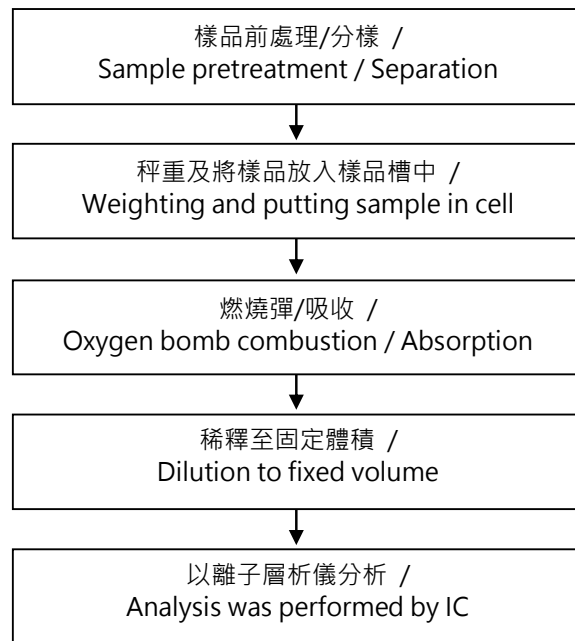


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鹵素分析流程圖 / Analytical flow chart - Halogen

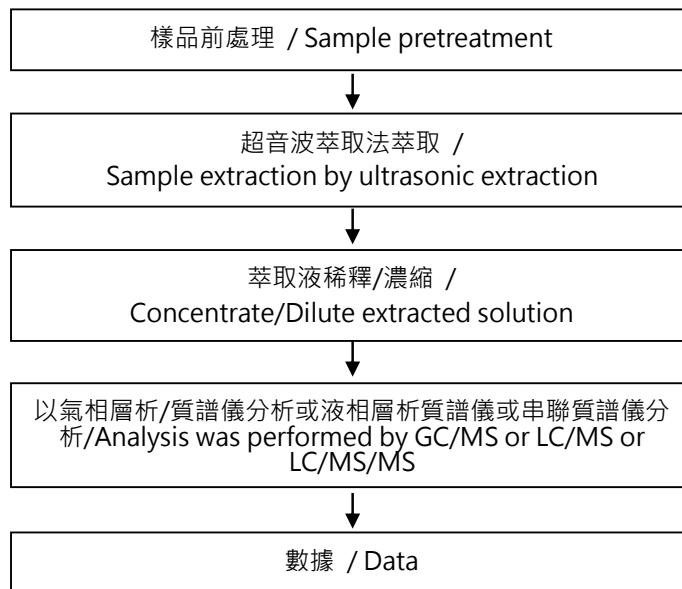


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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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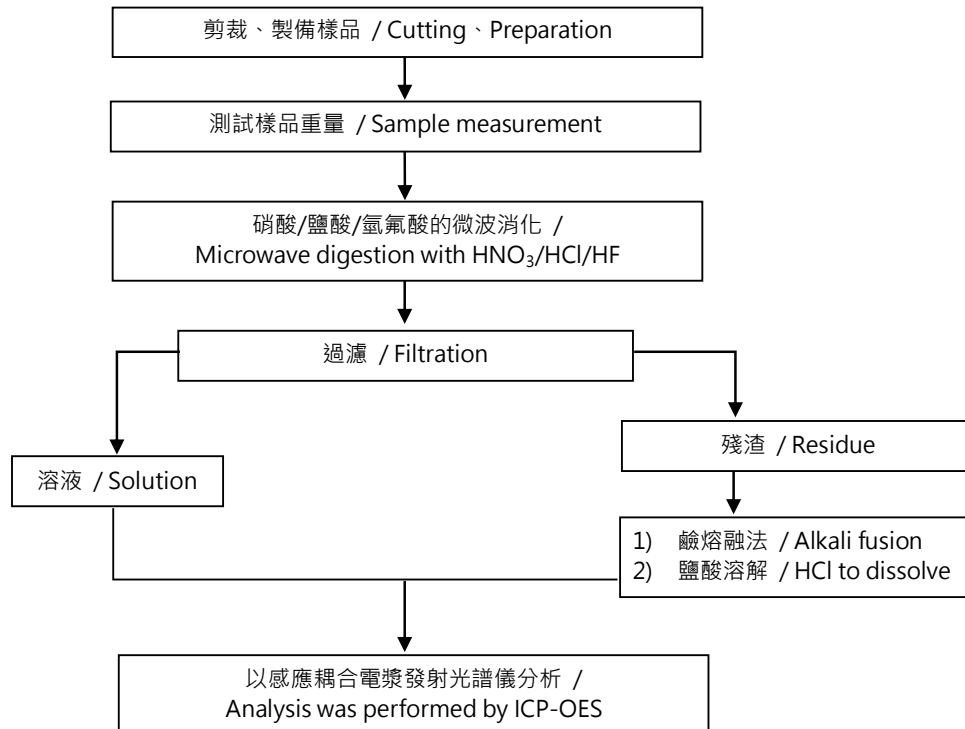
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元素(含重金屬)分析流程圖 / Analytical flow chart of elements (Heavy metal included)

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 3051A、US EPA 3052】



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

測試報告

Test Report

號碼(No.): ETR23802800

日期(Date): 18-Aug-2023

頁數(Page): 12 of 12

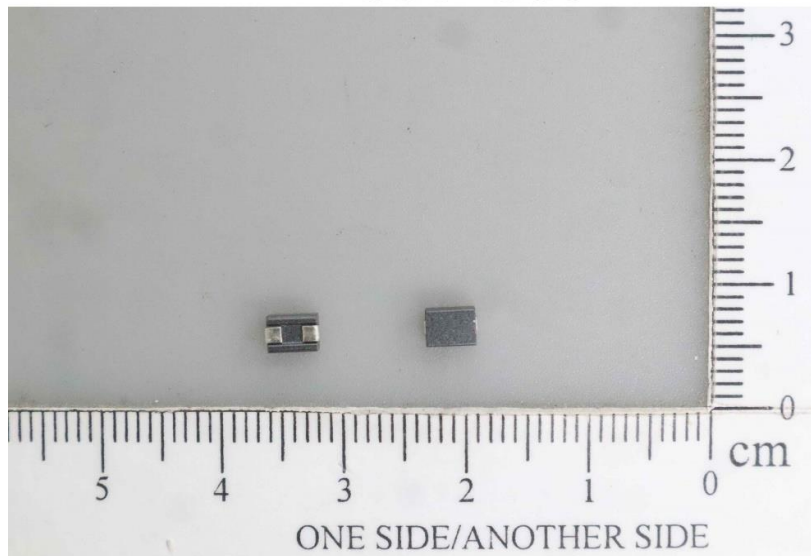
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

ETR23802800



** 報告結尾 (End of Report) **

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