P1 Wire Wound Type Common Mode Filter WCM3225F2SF-102T15

	ECN HISTORY LIST							
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN			
1.0	14/11/04	新發行	楊祥忠	林志鴻	林宜蕰			
備								
註								

TAI-TECH

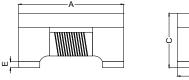
Wire Wound Type Common Mode Filter

WCM3225F2SF-102T15

1. Features

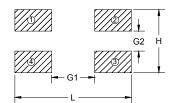
- 1. High common mode impedance at high frequency cause excellent noise suppression performance.
- 2. WCM3225F2SF series realizes small size and low profile. 3.2x2.5x2.2 mm.
- 3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

2. Dimension





Recommended PC Board Pattern



PC board should be designed so that products can prevent damage from mechanical stress when warping the board. Products shall be positioned in the sideway direction against the mechanical stress to prevent failure.

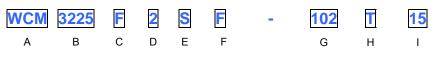
Halogen-free

Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	L(mm)	H(mm)	G1(mm)	G2(mm)
3225F2SF	3.2±0.2	2.5±0.2	2.2±0.2	0.8±0.1	0.9±0.1	4.4	3.5	1.6	0.6

Units: mm

4

3. Part Numbering



A: Series

B: Dimension

C: Material	Ferrite Core
D. Number of Lines	

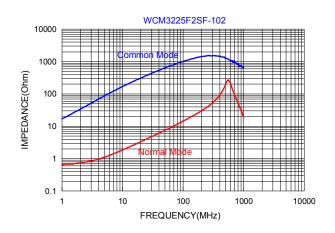
D: Number of Lines	2=2 lines	

- E: Type S=Shielded , N=Unshielded F: Lead free type
- G: Impedance
- **102=1000**Ω H: Packaging T=Taping and Reel
- I: Rated Current 15=1500mA

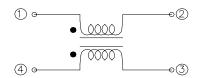
4. Specification

TAI-TECH Part Number	Common mode Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA)max.	Rated Volt. (Vdc)max.	Withstand Volt. (Vdc) max.	IR (Ω) min.
WCM3225F2SF-102T15	1000±25%	100	0.30	1500	50	125	10M

www.tai-tech.com.tw

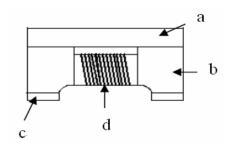


5.Schematic Diagram



6. Materials

No.	Description	Specification
a.	Upper plate	Ferrite
b.	Core	Ferrite Core
с	Termination	Tin (Pb Free)
d	Wire	Enameled Copper Wire



7. Reliability and Test Condition

Item	Performance	Test Condition	
Electrical Characteristics	Test	•	
Z(common mode)		Agilent-4291A+ Agilent -16197A	
DCR	Refer to standard electrical characteristics list.	Agilent-4338B	
I.R.		Agilent4339	
Operating Temperature	- -4 0℃~+125℃		
Storage Temperature(on board)			
Temperature Rise Test	Rated Current < 1A $\Delta T 20^{\circ}CMax$ Rated Current \geq 1A $\Delta T 40^{\circ}CMax$	1.Applied the allowed DC current. 2.Temperature measured by digital surface thermometer	
Mechanical Performance Tes	st	·	
Solderability Test	More than 95% of terminal electrode should be covered with solder.	Preheat: 150°C,60sec. ° Solder: Sn99.5%-Cu0. 5% ° Temperature: 245±5°C ° Flux for lead free: Rosin. 9.5% ° Dip time: 4±1sec ° Depth: completely cover the termination	

www.tai-tech.com.tw

ltem	Performance	Test Condition			
Solder Heat Resistance		Temperature (°C) Time (s) Temperature rampfinnersion rate Number of heat cycles 260 ±5 (solder temp) 10 ±1 25mm/s ±6 mm/s 1			
	Appearance : No damage. Impedance : within±15% of initial value	Depth: completely cover the termination			
Terminal Strength	RDC : within $\pm 15\%$ of initial value and shall not exceed the specification value	Preconditioning:Run through IR reflow for 2 times.(IPC/IEDEC J-STD-020DClassification Reflow Profiles With the component mounted on a PCB with the device to be tested, apply a force (>0805:1kg , <=0805:0.5kg)to the side of a device being tested. This force shall be applied for 60 +1 seconds. Also the force shall be applied gradually as not to apply a shock to the component being tested.			
Reliability Test		shear force			
Life Test		Preconditioning:Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles Temperature : 85±2°C Applied current : rated current Duration : 1000±12hrs			
		Measured at room temperature after placing for 24±2 hrs Preconditioning:Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles Step1 : -40±2°C 30±5min Step2 : 25±2°C ≤0.5min Step3 : 105±2°C 30±5min Number of cycles : 500			
Thermal shock	Appearance : No damage. Impedance : within±15% of initial value RDC : within ±15% of initial value and shall not exceed the specification value	Measured at room temperature after placing for 24±2 hrs			
Humidity Resistance Test		Preconditioning:Run through IR reflow for 2 times.(IPC/JEDEC. J-STD-020DClassification Reflow Profiles Humidity : 85±2% R.H, Temperature : 85°C±2°C			
Vibration Test		Duration : 1000hrs Min. with 100% rated current Measured at room temperature after placing for 24±2 hrs Preconditioning:Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles Oscillation Frequency: 10~2K~10Hz for 20 minutes Equipment : Vibration checker Total Amplitude:1.52mm±10% Testing Time : 12 hours(20 minutes, 12 cycles each of 3			

8. Soldering and Mounting

8-1. Soldering

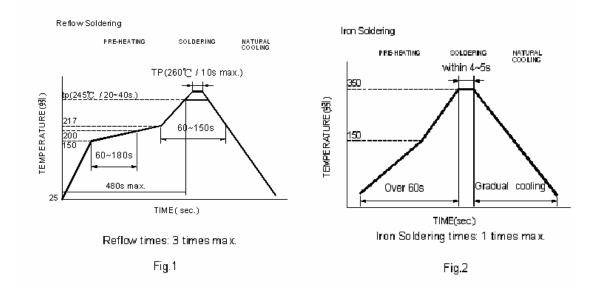
Mildly activated rosin fluxes are preferred. TAI-TECH terminations are suitable for all wave and re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

8-1.1 Solder re-flow:

Recommended temperature profiles for re-flow soldering in Figure 1.

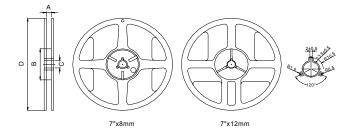
8-1.3 Soldering Iron(Figure 2):

- Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.
- Preheat circuit and products to 150°C
 Never contact the ceramic with the iron tip
 Use a 20 watt soldering iron with tip diameter of 1.0mm
- 355°C tip temperature (max) 1.0mm tip diameter (max)
- tip diameter (max)
 Limit soldering time to 4~5 sec.



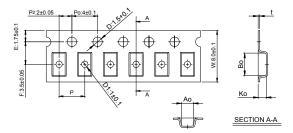
9. Packaging Information

9-1. Reel Dimension



Туре	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	9.0±0.5	60±2	13.5±0.5	178±2

9-2. Tape Dimension / 8mm

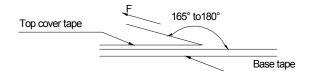


Series	size	Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)
WCM3225F2S	3225	3.72±0.1	2.88±0.1	2.50±0.1	4.0±0.1	0.23±0.05

9-3. Packaging Quantity

Chip size	Chip/Reel	Inner Box	Middle Box	Carton
WCM3225F2S	2000	10000	50000	100000

9-4. Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp.	Room Humidity	Room atm	Tearing Speed
(°C)	(%)	(hPa)	mm/min
5~35	45~85	860~1060	300

Application Notice

- Storage Conditions(component level)
- To maintain the solderability of terminal electrodes:
- 1. TAI-TECH products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 2. Temperature and humidity conditions: Less than 40 $^\circ\!\mathrm{C}$ and 60% RH.
- 3. Recommended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation
 - 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
 - 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
 - 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.





測試報告 號碼(No.): CE/2014/A1722 日期(Date): 2014/10/16 頁數(Page): 1 of 14 **Test Report** 西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD. (臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.) (耀鑽科技股份有限公司 # YOSONIC TECHNOLOGY CO., LTD.) 桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

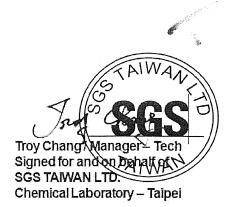
(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

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/on behalf of the applicant as): 樣品名稱(Sample Description) : WIREWOUND SERIES 樣品型號(Style/Item No.) : WCM, HSF, HDMI, DVI, YCM, BCM, PCM, TCM, LCM, LPF, TXF, ACM, DCM, WIH SERIES

收件日期(Sample Receiving Date) : 2014/10/09

測試期間(Testing Period) : 2014/10/09 TO 2014/10/16

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/terms-and-Conditions/september-2014/ter



測試報告 ^{號碼(No.)}: CE/2014/A1722 日期(Date): 2014/10/16

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.)

(耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

<u>測試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 整體混測 (MIXED ALL PARTS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and	2	n.d.
鉛 / Lead (Pb)	mg/kg	performed by ICP-AES. 參考IEC 62321-5: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS 檢測. / With reference to IEC 62321: 2008 and performed by UV- VIS.	2	n.d.
绨 / Antimony (Sb)	mg/kg	參考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.
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.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.asp/ and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.asp/ drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonergie parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

頁數(Page): 2 of 14



測試報告 Test Report ^{號碼(No.)}: CE/2014/A1722

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.)

(耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

日期(Date): 2014/10/16

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

測試項目	單位	測試方法	方法偵測	結果 (Result)
(Test Items)	(Unit)	(Method)	極限値 (MDL)	No.1
全氟辛酸 / 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.
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
六溴環十二烷及所有主要被辨别出的異構 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.
鄰苯二甲酸丁苯甲酯 / BBP(Butyl Benzyl phthalate)(CAS No.: 85-68-7)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No.: 117-84-0)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspz and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sqs.com/en/Terms-and-Conditions.aspz drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not compare a the time of rom exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Member of the SGS Group

頁數(Page): 3 of 14



測試報告 號碼(No.) : CE/2014/A1722 日期(Date): 2014/10/16 **Test Report**

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.)

(耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

測試項目	單位	測試方法	方法偵測 極限値	結果 (Result)
(Test Items)	(Unit)	(Method)	(MDL)	No.1
鄰苯二甲酸二丁酯 / DBP (Dibutyl	%	參考EN 14372,以氣相層析/質譜儀檢	0.003	n.d.
phthalate) (CAS No.: 84-74-2)		测. / With reference to EN 14372.		
		Analysis was performed by GC/MS.		
鄰苯二甲酸二異丁酯 / DIBP (Di-	%	參考EN 14372, 以氣相層析/質譜儀檢	0.003	n.d.
isobutyl phthalate) (CAS No.: 84-69-		测. / With reference to EN 14372.		11 A.A.
5)		Analysis was performed by GC/MS.		
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n.d.
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	mg/kg	Ī	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	參考IEC 62321: 2008方法,以氣相層	5	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg	析/質譜儀檢測. / With reference to	5	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	IEC 62321: 2008 and performed by		n.d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg	GC/MS.	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	1 1	5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	1	5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg	1 1	5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg	1	5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg	1	5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg	1	5	n.d.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-an

Member of the SGS Group

頁數(Page): 4 of 14



測試報告 Test Report ^{號碼(No.)}: CE/2014/A1722 日期(Date): 2014/10/16

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.)

(耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

測試項目	單位	測試方法	方法偵測 極限値	結果 (Result)
(Test Items)	(Unit)	(Method)	(MDL)	No.1
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素(氯)/ Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg		50	n.d.
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n.d.
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n.d.

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 (無規格値)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
- 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别單一材質的含量. (The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

PFOS参考資訊(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1µg/m²。

(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 $1\mu g/m^2$.)

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.asp/ and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions.asp/ drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

頁數(Page): 5 of 14



測試報告 號碼(No.): CE/2014/A1722 日期(Date): 2014/10/16 頁數(Page): 6 of 14 **Test Report**

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD. (臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.)

(耀鑽科技股份有限公司[●]/ YOSONIC TECHNOLOGY CO., LTD.)

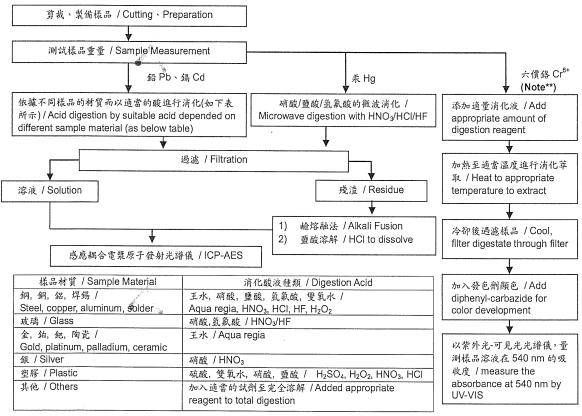
桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

1) 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)

- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang 2)
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Note** (For IEC 62321)

(1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃ 萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C

(2) 針對金屬材料加入純水,加熱至沸腾萃取. / For metallic material, add pure water and heat to boiling.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-and-Conditions/Terns-



測試報告 號碼(No.) : CE/2014/A1722 日期(Date) : 2014/10/16 頁數(Page): 7 of 14 **Test Report**

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.) (耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

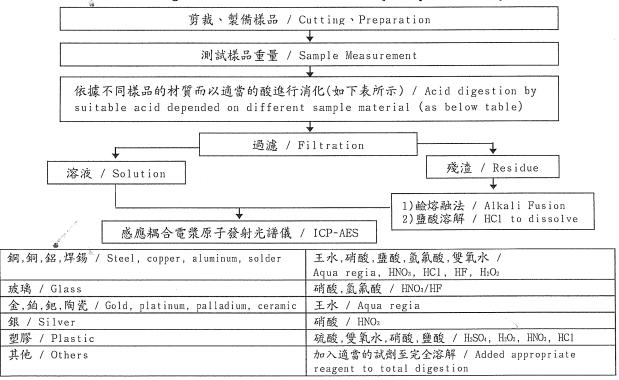
(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

- 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:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

元素以 ICP-AES 分析的消化流程圖

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.con/en/Terms-and-Conditions.asp/ and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.con/en/Terms-and-Conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-enc-conditions/ferms-en

33, Wu Chuan Rd., New Taipei Industrial Park, New Taipei City, Taiwan / 新北市新北市業園園五欄路33號 t+886 (02)2299 3279 f+886 (02)2299 3237 www.sgs.tw



測試報告 ^{號碼(No.)}: CE/2014/A1722 日期(Date): 2014/10/16 **Test Report**

頁數(Page): 8 of 14

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.) (耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

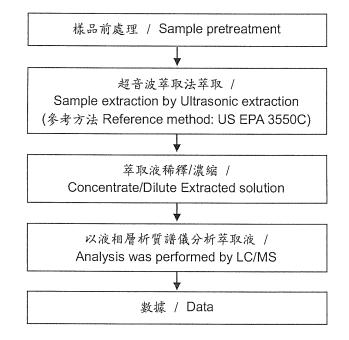
桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.asp/ and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-en



測試報告 ^{號碼(No.)}: CE/2014/A1722 日期(Date): 2014/10/16

頁數(Page): 9 of 14

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.) (螺礁利井駅公支駅公司 / VOSONIC TECHNOLOGY CO. LTD.)

(耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

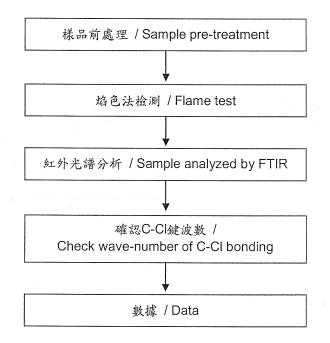
(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

聚氯乙烯物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

■ 測試人員:林建宇 / Name of the person who made measurement: Roy Lin

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.appr and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-an



測試報告 號碼(No.) : CE/2014/A1722 日期(Date): 2014/10/16 頁數(Page): 10 of 14 **Test Report**

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.)

(耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

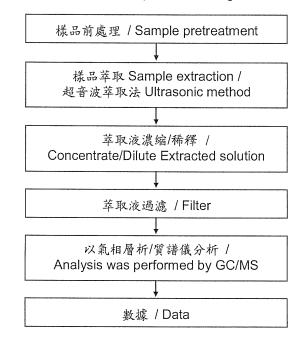
桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

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

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.con/en/Terms-and-Conditions.asp/ and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.con/en/Terms-and-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-en



測試報告 號碼(No.): CE/2014/A1722 日期(Date): 2014/10/16 頁数(Page): 11 of 14

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD. (臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.)

(耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

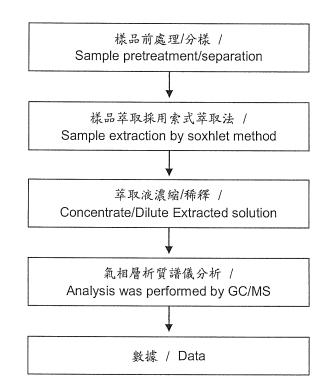
(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

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

■ 测試人員:翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sqs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to Elicent and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



測試報告 ^{號碼(No.)}: CE/2014/A1722 日期(Date): 2014/10/16 頁数(Page): 12 of 14

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.)

(耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

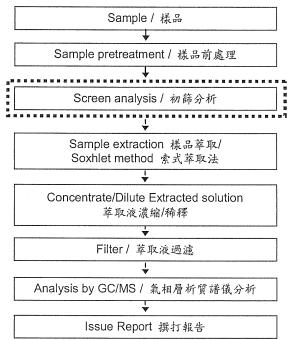
桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320、TAIWAN)

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

■ 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong ■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang 初次測試程序 / First testing process ______ 選擇性篩檢程序 / Optional screen process ______



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.asp/ and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-Document.aspx, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



測試報告 號碼(No.): CE/2014/A1722 日期(Date): 2014/10/16 頁数(Page): 13 of 14

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.) (耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

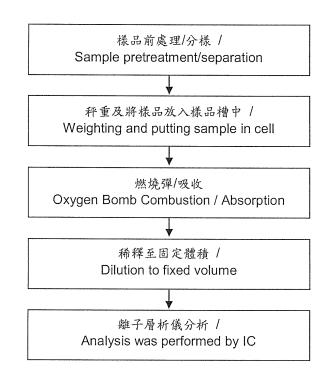
桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320 TAIWAN)

鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員:陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.asp/ and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-an



測試報告 號碼(No.): CE/2014/A1722 日期(Date): 2014/10/16

頁數(Page): 14 of 14

CO., LTD.

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

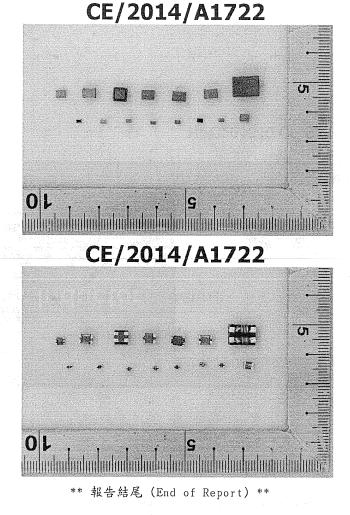
(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.) (耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)

桃園縣楊梅市幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI CITY, TAO-YUAN HSIEN. TAIWAN R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 32~ TAIWAN)

* 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.)



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspz and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.