

TO: 映興電子股份有限公司

## SPECIFICATION FOR APPROVAL

DESCRIPTION : **2.4GHz SMA(M/A/R) Antenna**

CUSTOMER DWG. NO. /PART NO :

KINSUN PROD. NO : **6602104081-000**

DATE : **2008/04/10**

PLEASE RETURN TO US ONE COPY OF " SPECIFICATION FOR APPROVAL " WITH YOUR APPROVED SIGNATURES

### APPROVED SIGNATURES



慶陞工業股份有限公司  
KINSUN INDUSTRIES INC.

桃園縣中壢市普忠路 211 巷 20 號

TEL : 886-3-4353551

<http://www.kinsun.com>

FAX : 886-3-4353951

e-mail: [info@kinsun.com](mailto:info@kinsun.com)

## TECHNICAL DATA

### Electrical Properties

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Frequency Range: 2.4~2.5GHz

Impedance: 50 Ohm nominal

VSWR : 2Max.

Radiation: Omni

Return loss : -10dB Max.

Electrical Wave :  $1/4\lambda$  dipole

Gain : 2.33dBi

Admitted power : 1W

Polarization: Vertical

### Mechanical Properties

---

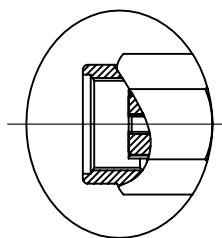
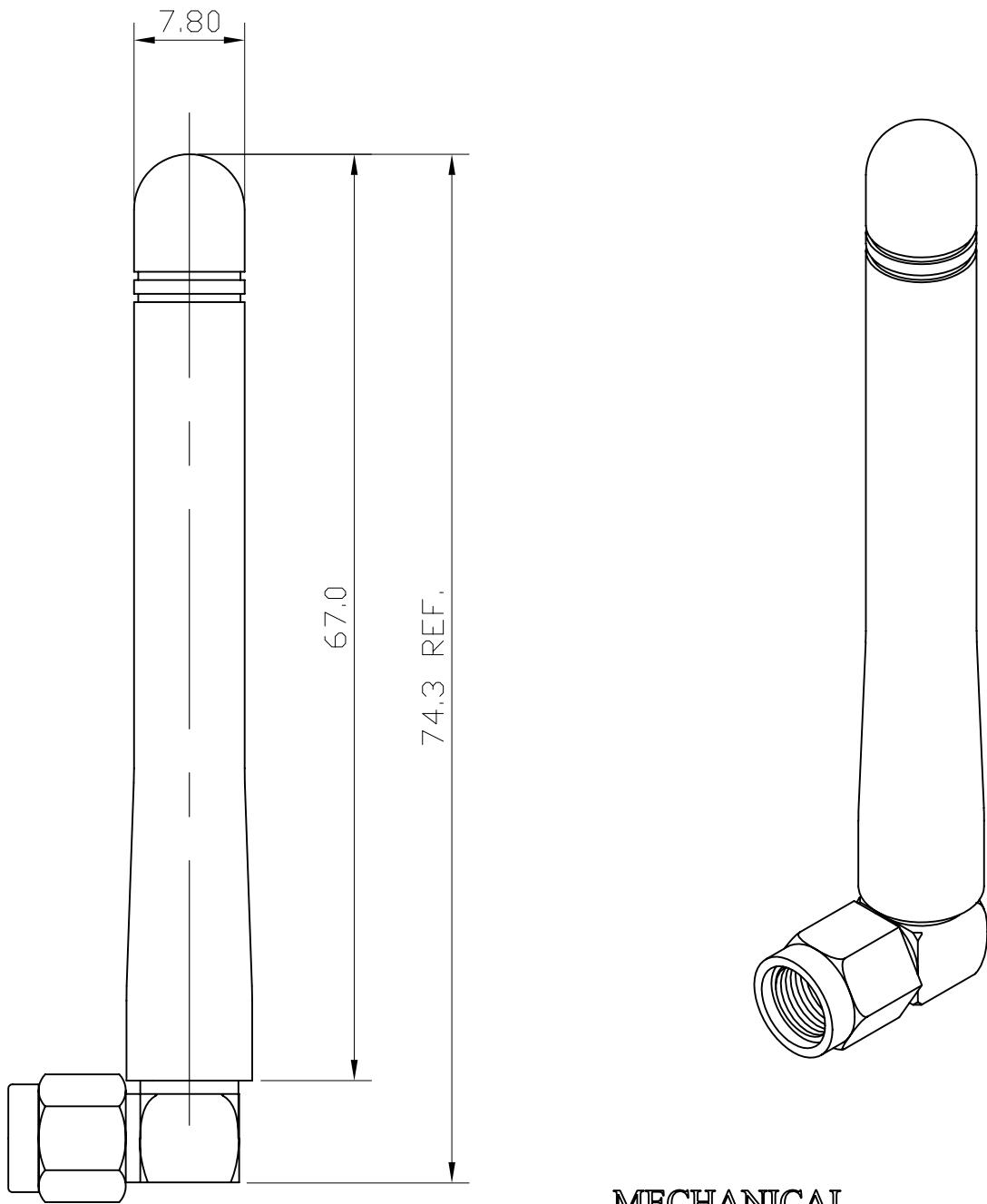
Antenna Cover: PU

Color : BLACK

Operation Temperature:-20°C~+60°C

Storage Temperature:-30°C~+75°C

Connector: SMA MALE REVERSE



### MECHANICAL

Antenna Cover : PU

Color : Black

### ELECTRICAL

Frequency : 2.4GHz

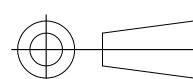
Connector :

SMA-Right Angle-Male-RP

設計 DR. Marco 2004/11/08	核准 APPD. Jerry 2004/11/08	容許公差 .XXX .XX .X X ANG	TOLERANCE $\pm 0.10$ $\pm 0.25$ $\pm 0.38$ $\pm 0.50$ $\pm 3^\circ$	品名 ARTICLE 6602-2.4G-SMA
版本說明 REVISION NOTE				圖號 DWG NO. 6602104081
				單位 UNIT mm 比例 SCALE 2/1 張數 SHEET 1/1 版本 REV. A



KINSUN 慶陞



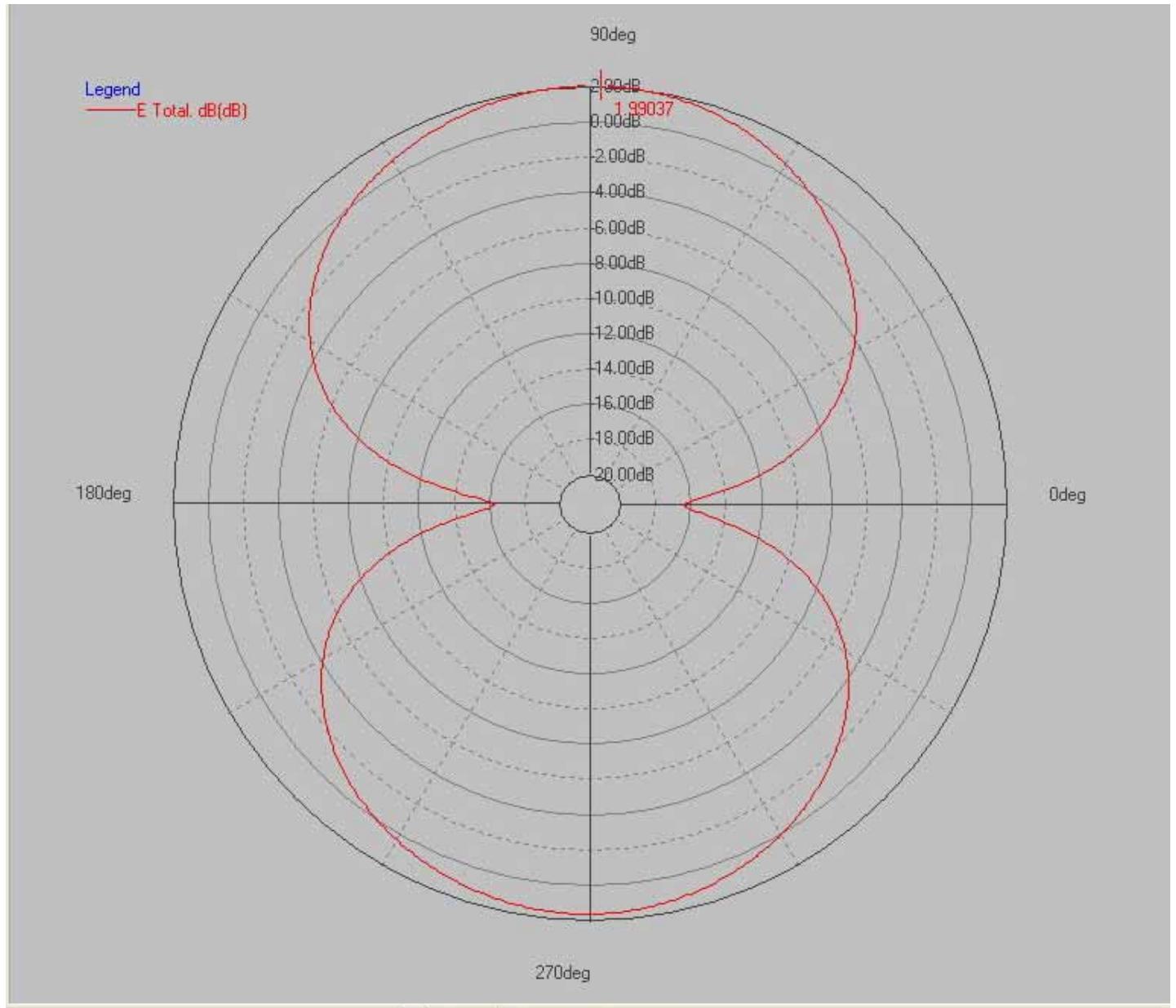
Brand / Model : 6602~SMA-M/S

Remark : 2400MHz

Tested by : Nick Dai

Date : 2005/06/02

Time : 上午 08 : 30



-- : Max. deg

\*Unit : dBi

Frequency(MHz) : 2400.00

Pattern Field : E plane

Average Gain(dB) : -2.07dB

Maximum Gain(dB) : 1.99dB

Maximum Gain(degree) : 88.57

Minimum Gain(dB) : -16.40dB

Minimum Gain(degree) : 0.00

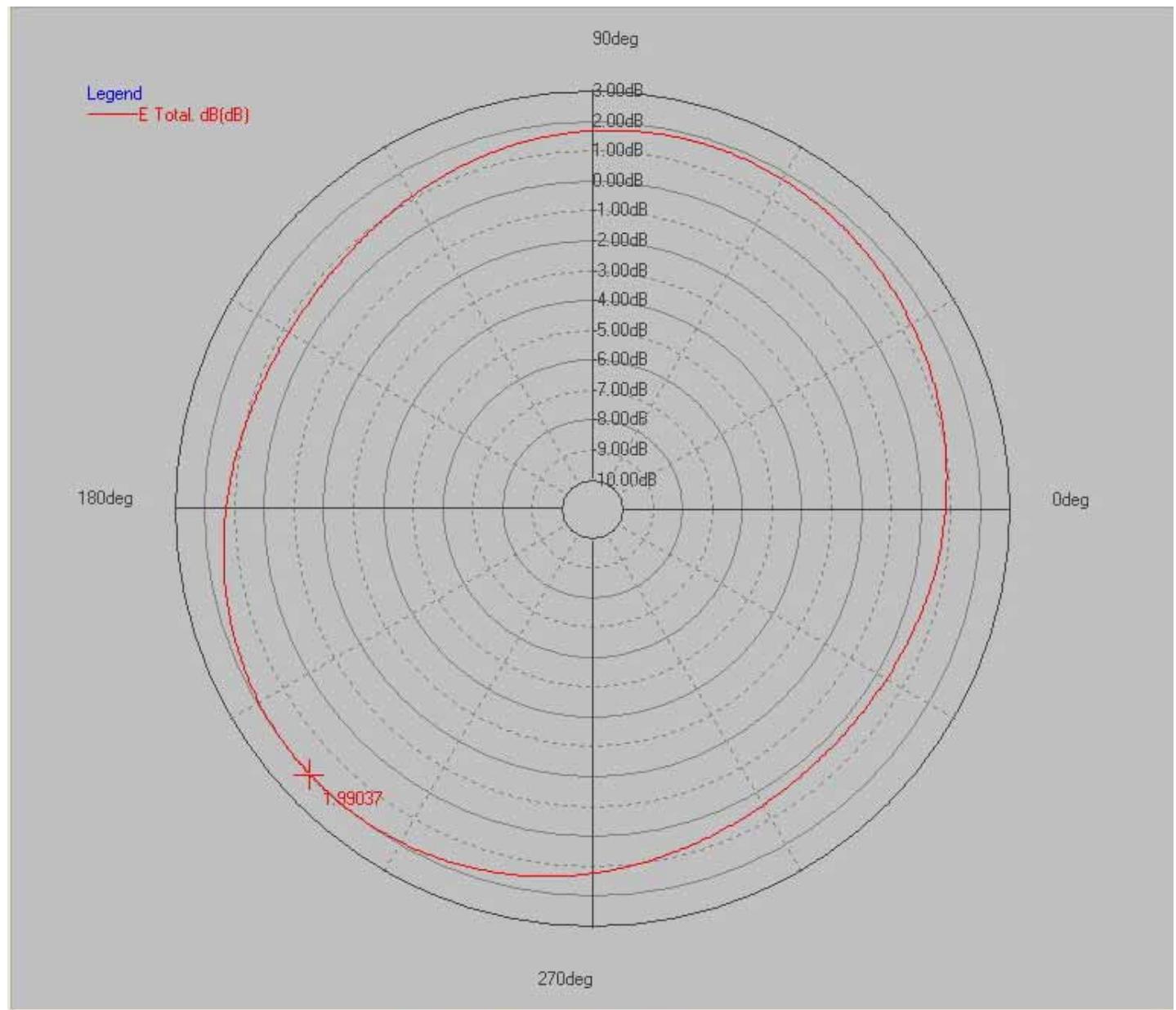
Brand / Model : 6602~SMA-M/S

Remark : 2400MHz

Tested by : Nick Dai

Date : 2005/06/02

Time : 上午 08 : 30



-- : Max. deg

\*Unit : dBi

Frequency(MHz) : 2400.00

Pattern Field : H plane

Average Gain(dB) : 1.22dB

Maximum Gain(dB) : 1.99dB

Maximum Gain(degree) : 223.23

Minimum Gain(dB) : 0.30dB

Minimum Gain(degree) : 315.31

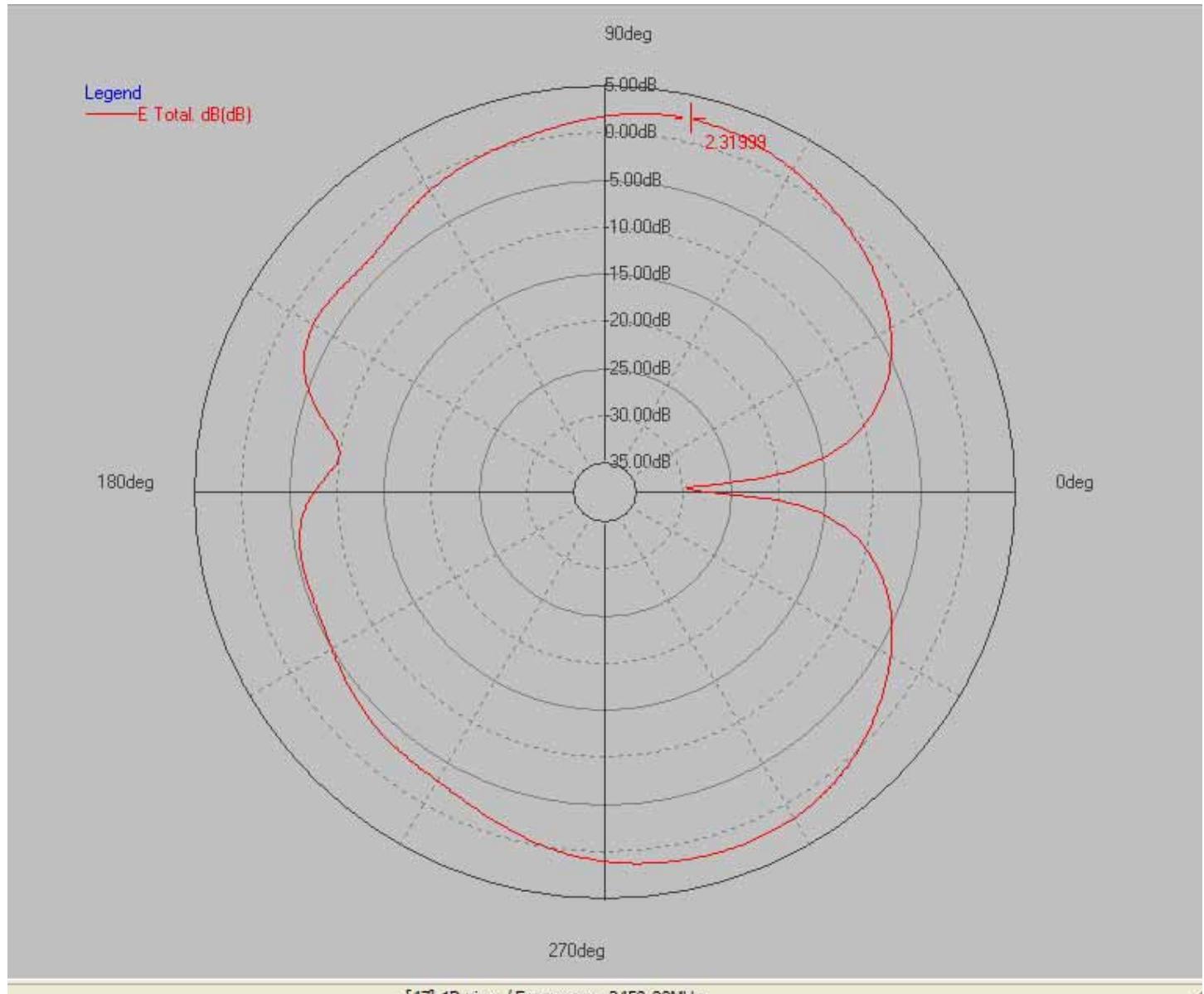
Brand / Model : 6602~SMA-M/S

Remark : 2450MHz

Tested by : Nick Dai

Date : 2005/06/02

Time : 上午 08 : 30



-- : Max. deg

\*Unit : dBi

Frequency(MHz) : 2450.00

Pattern Field : E plane

Average Gain(dB) : -2.17dB

Maximum Gain(dB) : 2.32dB

Maximum Gain(degree) : 77.14

Minimum Gain(dB) : -29.86dB

Minimum Gain(degree) : 2.86

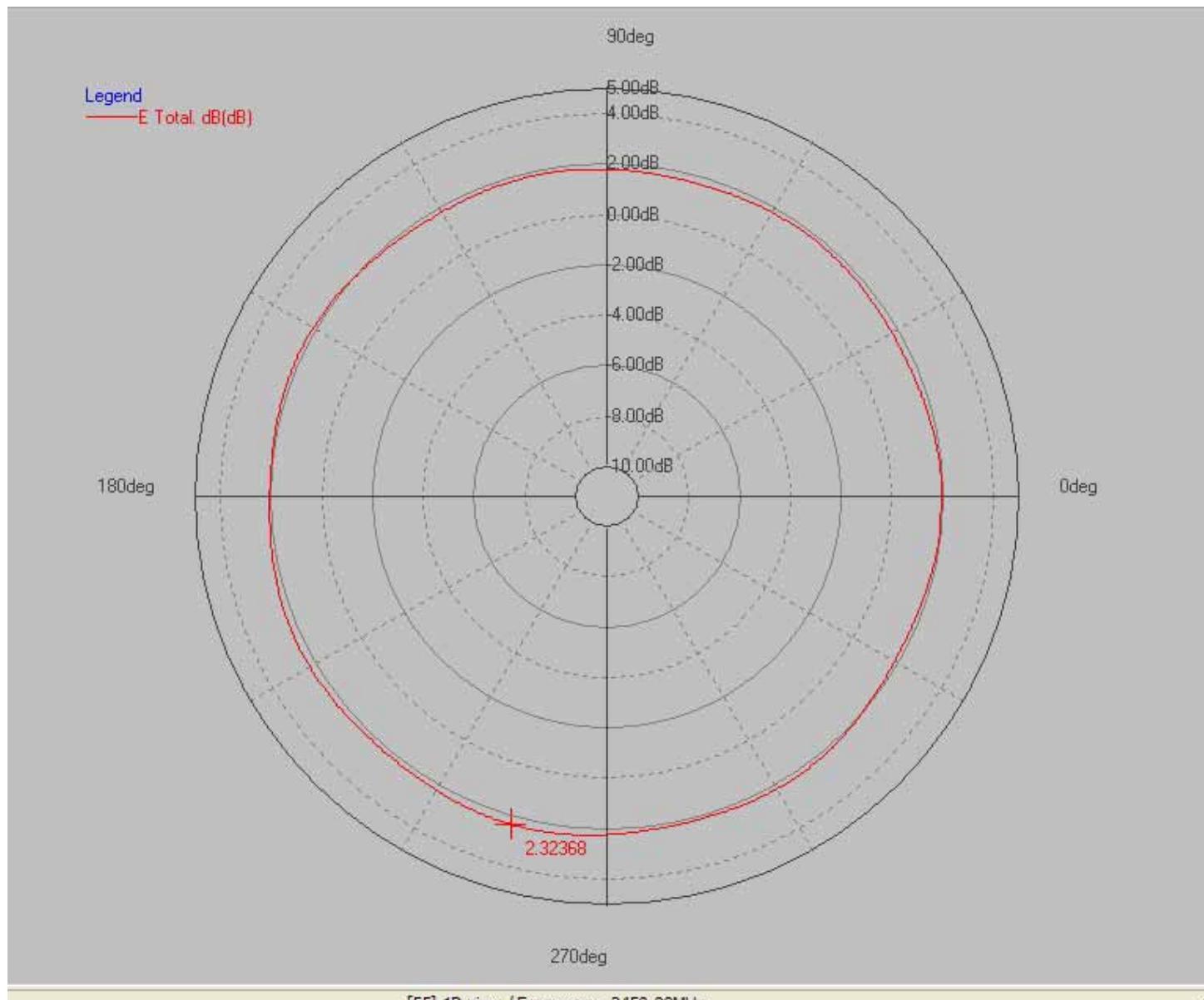
Brand / Model : 6602~SMA-M/S

Remark : 2450MHz

Tested by : Nick Dai

Date : 2005/06/02

Time : 上午 08 : 30



-- : Max. deg

\*Unit : dBi

Frequency(MHz) : 2450.00

Pattern Field : **H plane**Average Gain(dB) : **2.00dB**Maximum Gain(dB) : **2.32dB**Maximum Gain(degree) : **253.92**Minimum Gain(dB) : **1.67dB**Minimum Gain(degree) : **75.34**

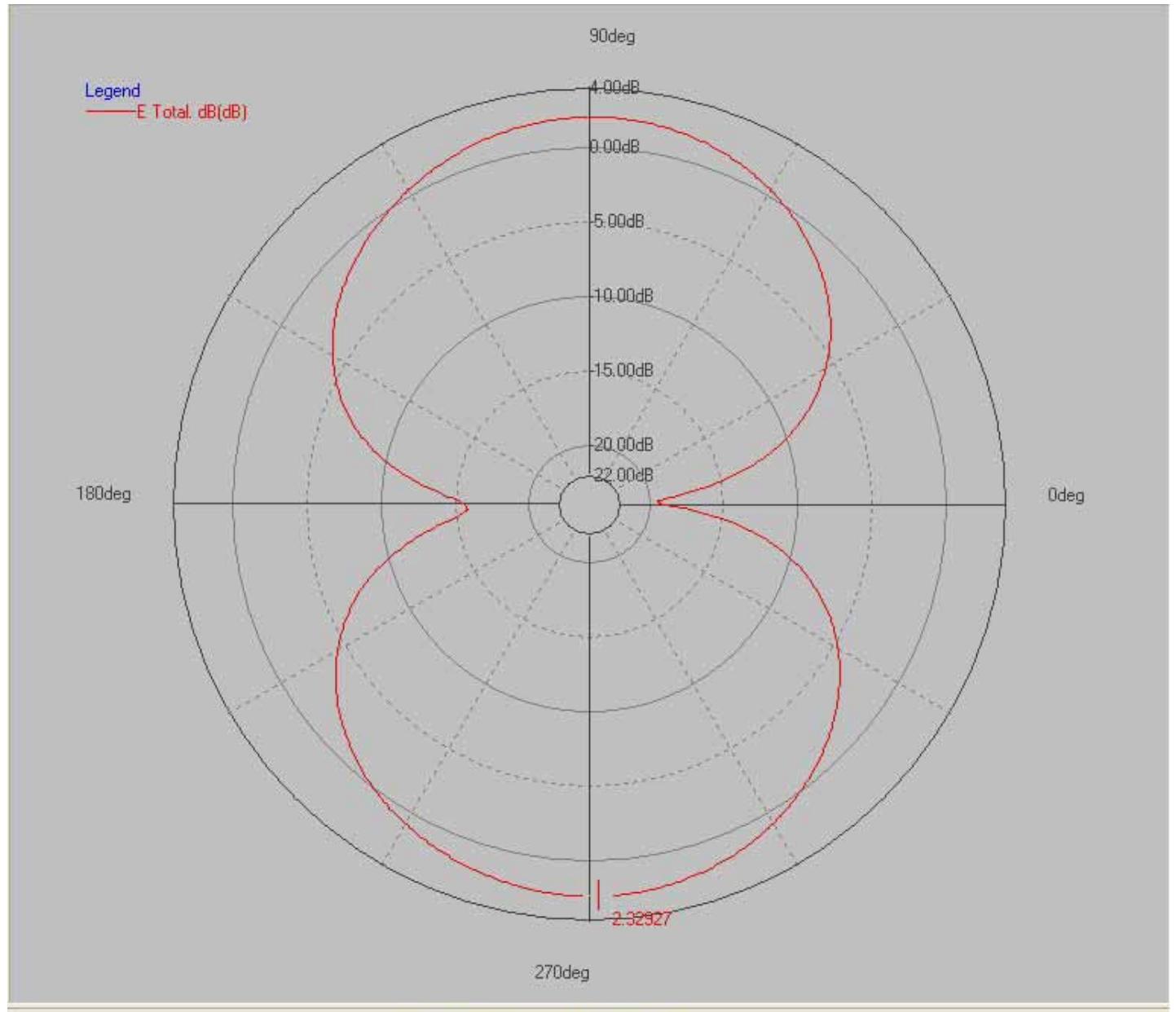
Brand / Model : 6602~SMA-M/S

Remark : 2500MHz

Tested by : Nick Dai

Date : 2005/06/02

Time : 上午 08 : 30



[75] 1D view / Frequency=2500.00MHz

-- : Max. deg

\*Unit : dBi

Frequency(MHz) : 2500.00

Pattern Field : E plane

Average Gain(dB) : -2.07dB

Maximum Gain(dB) : 2.33dB

Maximum Gain(degree) : -88.57

Minimum Gain(dB) : -19.44dB

Minimum Gain(degree) : 2.86

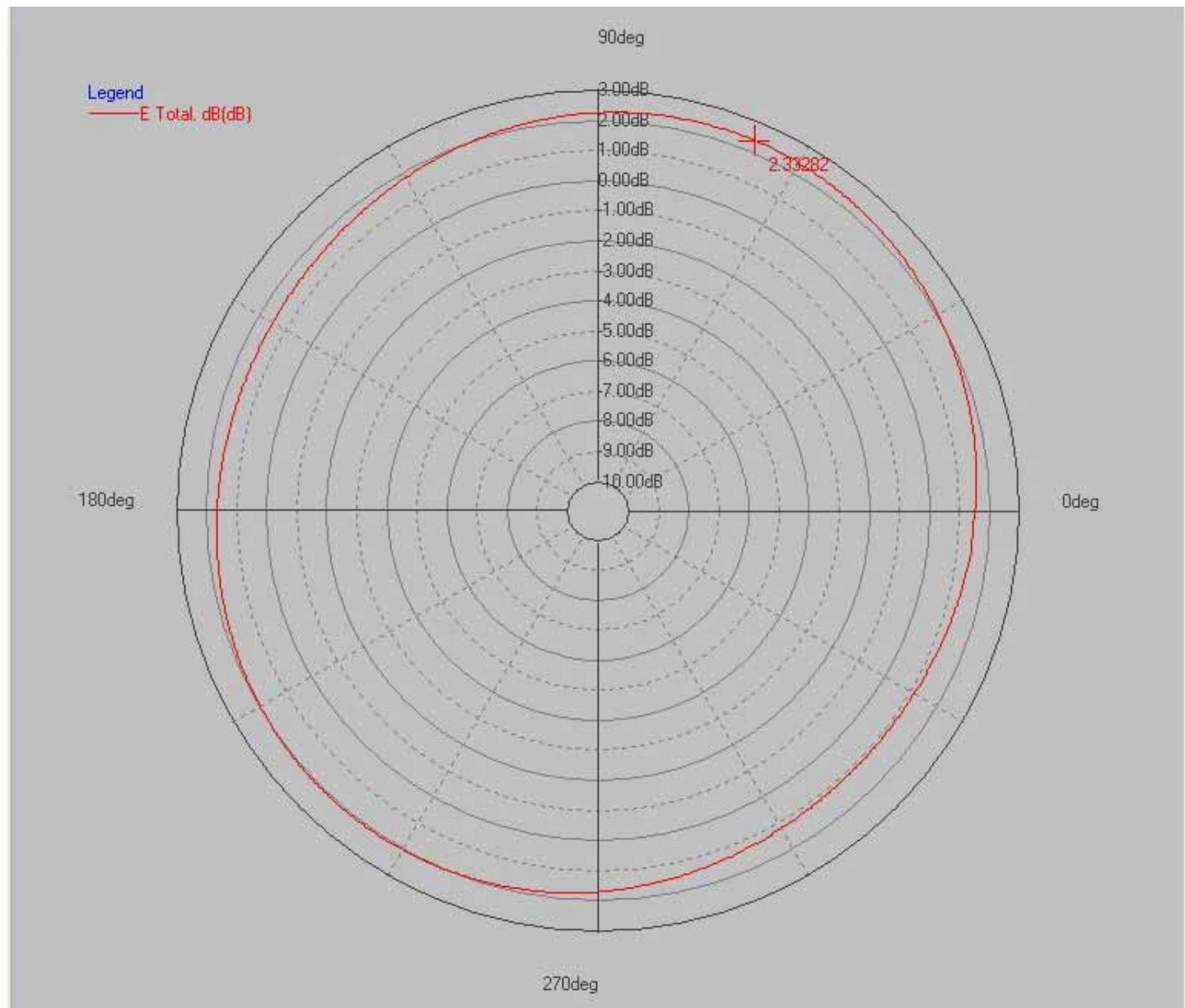
Brand / Model : 6602~SMA-M/S

Remark : 2500MHz

Tested by : Nick Dai

Date : 2005/06/02

Time : 上午 08 : 30



-- : Max. deg

\*Unit : dBi

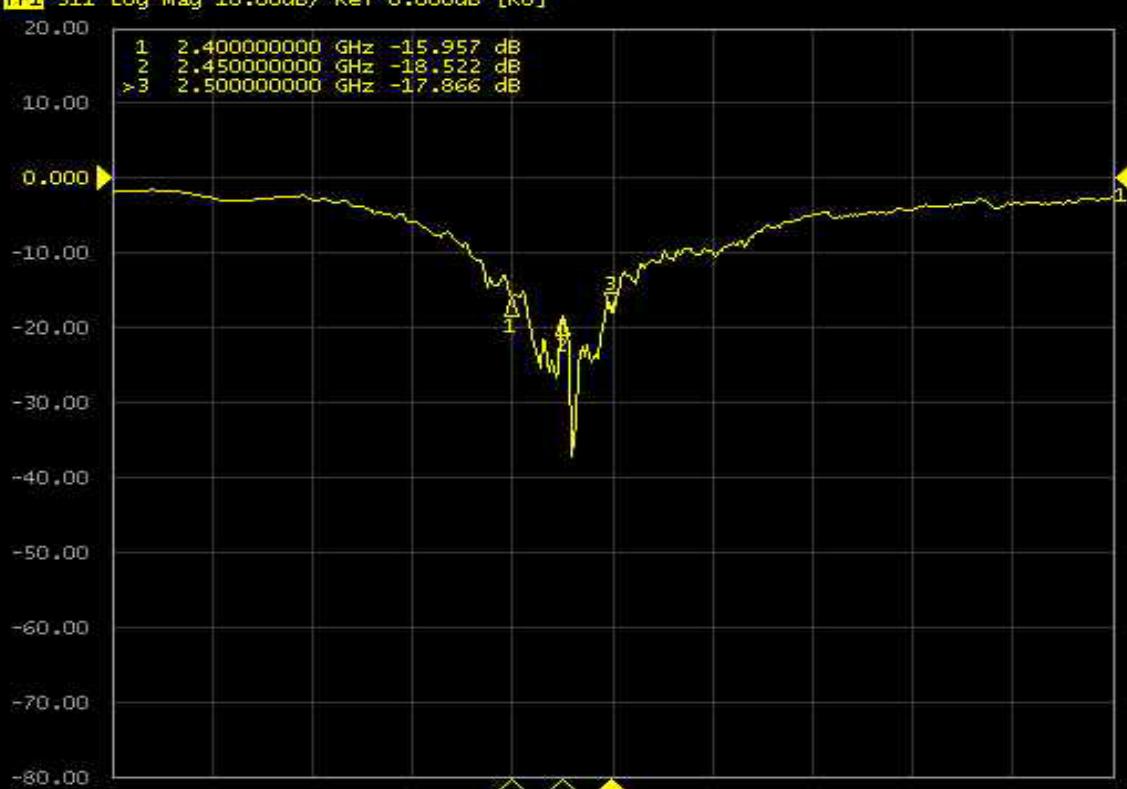
Frequency(MHz) : 2500.00

Pattern Field : **H plane**Average Gain(dB) : **1.75dB**Maximum Gain(dB) : **2.33dB**Maximum Gain(degree) : **66.97**Minimum Gain(dB) : **1.08dB**Minimum Gain(degree) : **315.31**

# S11

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

► Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [R0]



Format  
Log Mag

Log Mag

Phase

Group Delay

Smith

Polar

Lin Mag

SWR

Real

Imaginary

1 Start 2 GHz

IFBW 300 Hz

Stop 3 GHz PExt Cor

Meas Stop ExtRef Ready Svc 2005-06-02 08:23

## PHASE

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

► Tr1 S11 Phase 90.00°/ Ref 0.000° [R0]



Format  
Phase

Log Mag

Phase

Group Delay

Smith

Polar

Lin Mag

SWR

Real

Imaginary

1 Start 2 GHz

IFBW 300 Hz

Stop 3 GHz PExt Cor

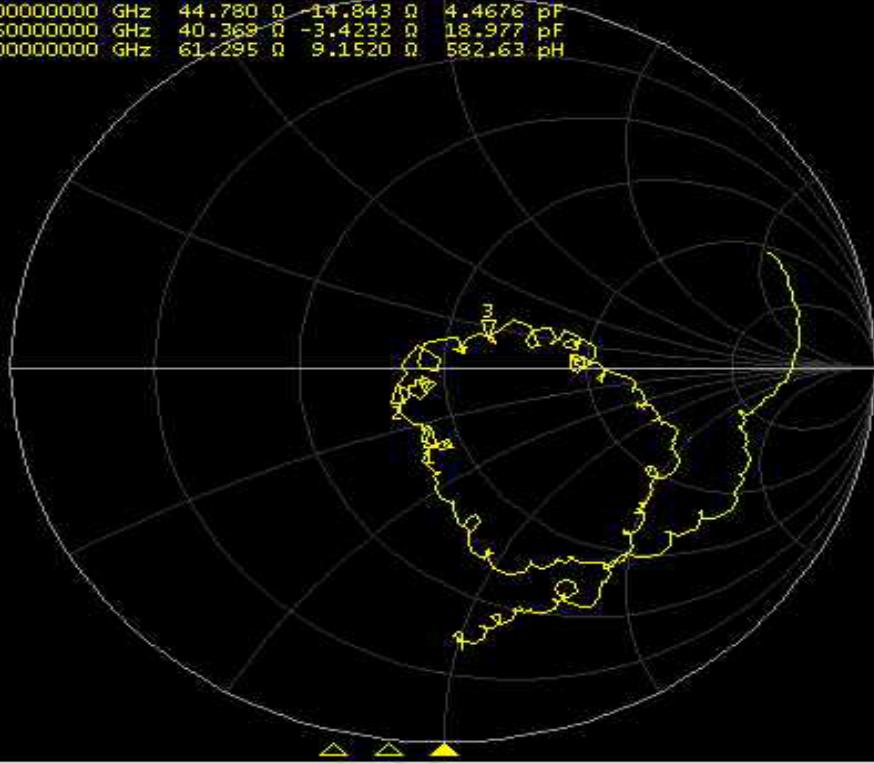
Meas Stop ExtRef Ready Svc 2005-06-02 08:23

# SMITH

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

► Tr1 S11 Smith (R+jX) Scale 1.0000 [R0]

1	2.400000000 GHz	44.780 Ω	14.843 Ω	4.4676 pF
2	2.450000000 GHz	40.369 Ω	-3.4232 Ω	18.977 pF
>3	2.500000000 GHz	61.295 Ω	9.1520 Ω	582.63 pH



Format  
Smith (R+jX)

Log Mag

Phase

Group Delay

Smith  
R + jX

Polar

Lin Mag

SWR

Real

Imaginary

1 Start 2 GHz

IFBW 300 Hz

Stop 3 GHz PExt Cor !

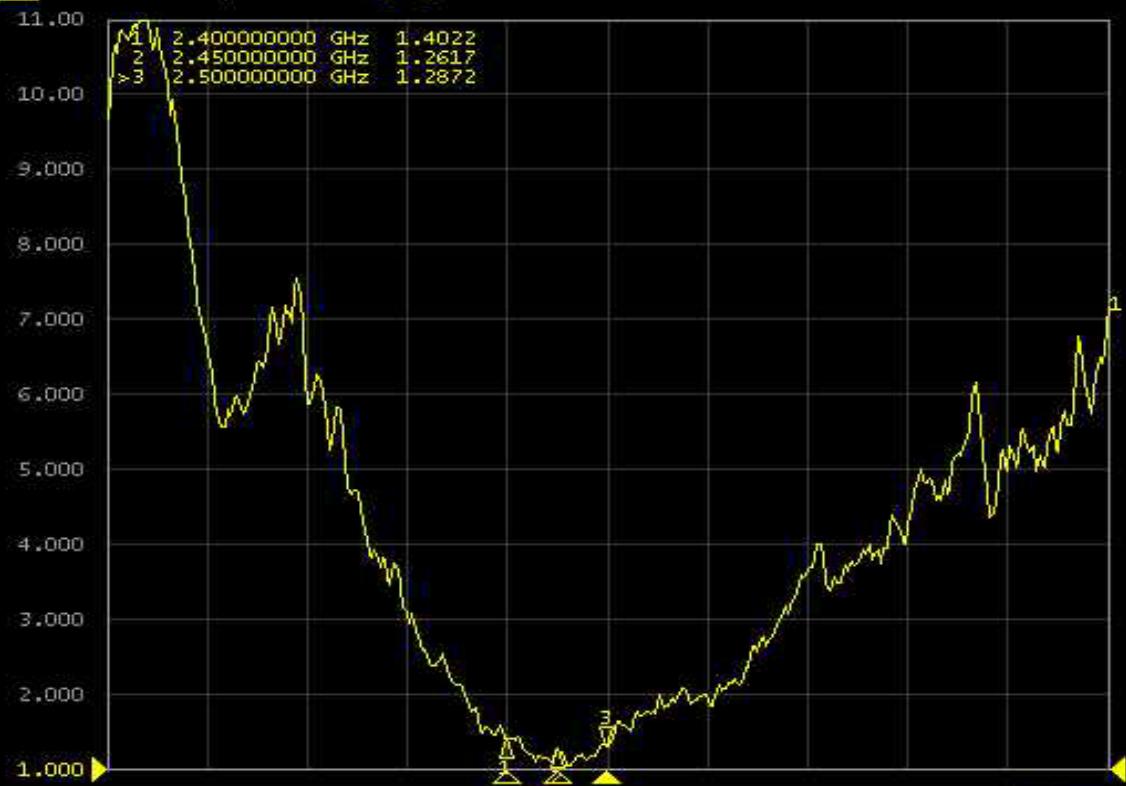
Meas Stop ExtRef Ready Svc 2005-06-02 08:23

# SWR

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

► Tr1 S11 SWR 1.000/ Ref 1.000 [R0]

1	2.400000000 GHz	1.4022
2	2.450000000 GHz	1.2617
>3	2.500000000 GHz	1.2872



Format  
SWR

Log Mag

Phase

Group Delay

Smith

Polar

Lin Mag

SWR

Real

Imaginary

1 Start 2 GHz

IFBW 300 Hz

Stop 3 GHz PExt Cor !

Meas Stop ExtRef Ready Svc 2005-06-02 08:23

# 測試報告

號碼 : CE/2007/35653 日期 : 2007/03/22 頁數 : 1 of 6



協祐股份有限公司

WGJ COMPANY LTD.

桃園縣龜山鄉頂湖五街5號

5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333,  
TAIWAN

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

樣品名稱(Sample Description) : BASF ELASTORAN S TYPE

樣品型號(Style/Item No.) : S60A10WH, S70A10WH, S80A10, S85A10, S90A50, S95A50, S60D50,  
S64D50, S74D50, S80A50, S85A50, S85A51S, S98A53

收件日期(Sample Receiving Date) : 2007/3/19

測試期間(Testing Period) : 2007/3/19 TO 2007/03/22

測試需求 / Test Requested : 參照 RoHS 2002/95/EC 及其修定指令要求. / In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method : 參考 IEC 62321, Ed. 1 111/54/CDV方法檢測. / With reference to IEC 62321, Ed.1 111/54/CDV. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

(1) 用感應耦合電漿原子發射光譜儀檢測鎘含量. / Determination of Cadmium by ICP-AES.

(2) 用感應耦合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.

(3) 用感應耦合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.

(4) 針對非金屬材質之樣品，用UV-VIS檢測六價鉻含量. / Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.

(5) 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / Determination of PBB and PBDE by GC/MS.

測試結果 / Test Result(s) : 請見下一页.

結論 / Conclusion : 根據客戶所提供之樣品測試結果，符合RoHS(2002/95/EC)及其修定指令之要求. / Based on the performed tests on submitted samples, the test results are compliant with the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

  
Daniel Yeh, M.R. Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

# 測試報告

號碼 : CE/2007/35653

日期 : 2007/03/22

頁數 : 2 of 6



協祐股份有限公司

WGJ COMPANY LTD.

桃園縣龜山鄉頂湖五街5號

5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333,  
TAIWAN

## 測試結果 (單位: mg/kg) / Test Result(s)

測試項目 / Test Item (s):	測試方法 Method (Refer to)	結果 / Result	方法偵測 極限值 (MDL)	RoHS 限值
		No.1		
鎘 / Cadmium (Cd)	(1)	n.d.	2	100
鉛 / Lead (Pb)	(2)	n.d.	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	1000
多溴聯苯總和 / Sum of PBBs	(5)	n.d.	-	1000
一溴聯苯 / Monobromobiphenyl		n.d.	5	-
二溴聯苯 / Dibromobiphenyl		n.d.	5	-
三溴聯苯 / Tribromobiphenyl		n.d.	5	-
四溴聯苯 / Tetrabromobiphenyl		n.d.	5	-
五溴聯苯 / Pentabromobiphenyl		n.d.	5	-
六溴聯苯 / Hexabromobiphenyl		n.d.	5	-
七溴聯苯 / Heptabromobiphenyl		n.d.	5	-
八溴聯苯 / Octabromobiphenyl		n.d.	5	-
九溴聯苯 / Nonabromobiphenyl		n.d.	5	-
十溴聯苯 / Decabromobiphenyl		n.d.	5	-
多溴聯苯醚總和 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-	1000
一溴聯苯醚 / Monobromobiphenyl ether	(5)	n.d.	5	-
二溴聯苯醚 / Dibromobiphenyl ether		n.d.	5	-
三溴聯苯醚 / Tribromobiphenyl ether		n.d.	5	-
四溴聯苯醚 / Tetrabromobiphenyl ether		n.d.	5	-
五溴聯苯醚 / Pentabromobiphenyl ether		n.d.	5	-
六溴聯苯醚 / Hexabromobiphenyl ether		n.d.	5	-
七溴聯苯醚 / Heptabromobiphenyl ether		n.d.	5	-
八溴聯苯醚 / Octabromobiphenyl ether		n.d.	5	-
九溴聯苯醚 / Nonabromobiphenyl ether		n.d.	5	-
十溴聯苯醚 / Decabromobiphenyl ether		n.d.	5	-
多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca)		n.d.	-	-

## 測試部位描述 / TEST PART DESCRIPTION:

NO.1 : 半透明塑膠粒 / SEMI-TRANSPARENT PLASTIC PELLETS

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**測試報告**

號碼 : CE/2007/35653 日期 : 2007/03/22 頁數 : 3 of 6



協祐股份有限公司

WGJ COMPANY LTD.

桃園縣龜山鄉頂湖五街5號

5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333,  
TAIWAN

Note : 1. mg/kg = ppm

2. n.d. = Not Detected / 未檢出

3. MDL = Method Detection Limit / 方法偵測極限值

4. According to 2005/717/EC DecaBDE is exempt.

根據2005年10月13日歐盟會議公佈2005/717/EC，修訂2002/95/EC內容，通過解除  
高分子材質中十溴聯苯醚之使用限制。

5. "-" = Not Regulated / 無規格值

# 測試報告

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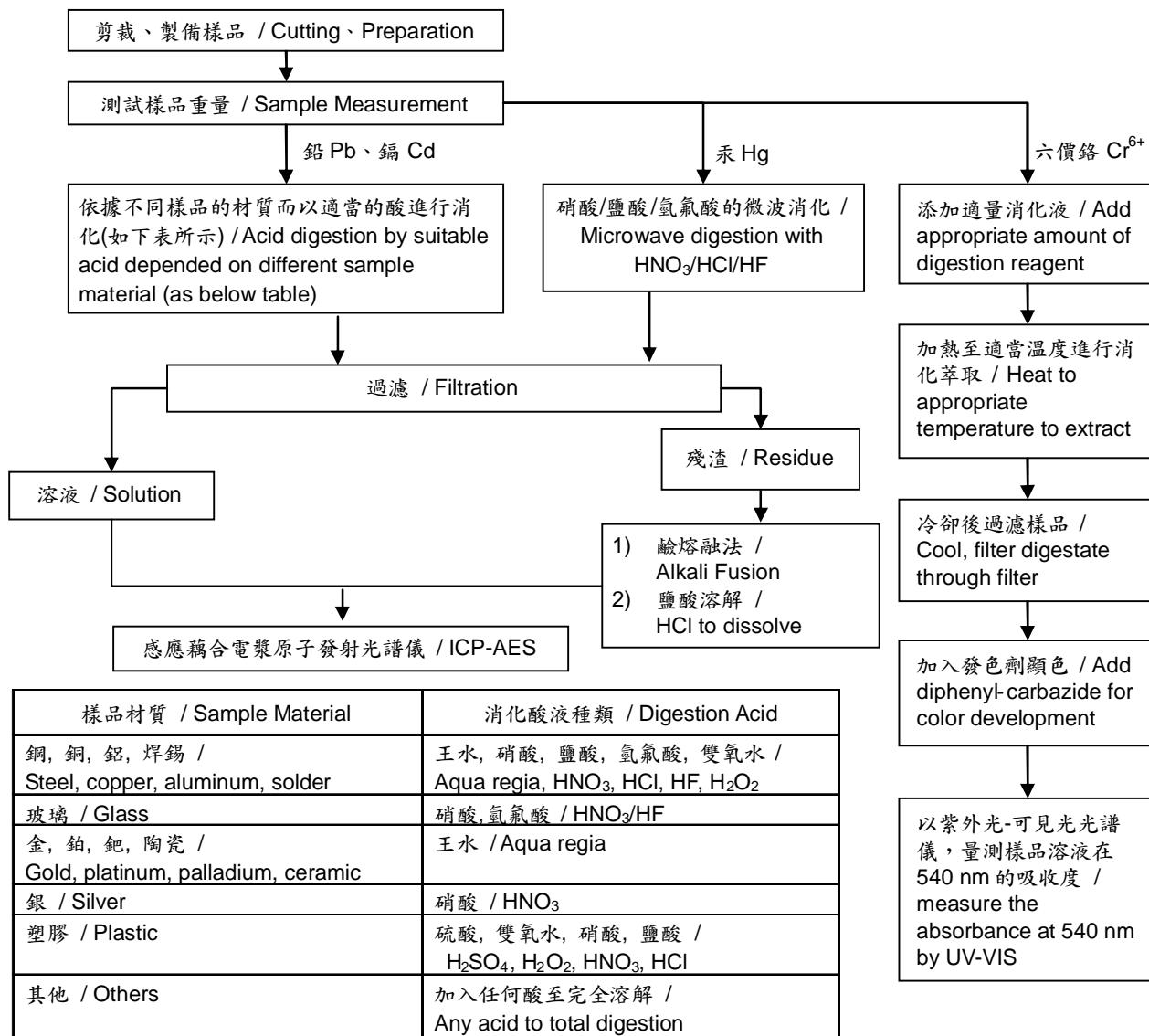
協祐股份有限公司

WGJ COMPANY LTD.

桃園縣龜山鄉頂湖五街5號

5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333,  
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. (Cr<sup>6+</sup> test method excluded)
- 2) 測試人員：張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人：葉禮源 / Name of the person in charge of measurement: Daniel Yeh



# 測試報告

號碼 : CE/2007/35653

日期 : 2007/03/22

頁數 : 5 of 6

協祐股份有限公司

WGJ COMPANY LTD.

桃園縣龜山鄉頂湖五街5號

5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333,  
TAIWAN

## PBB/PBDE analytical FLOW CHART

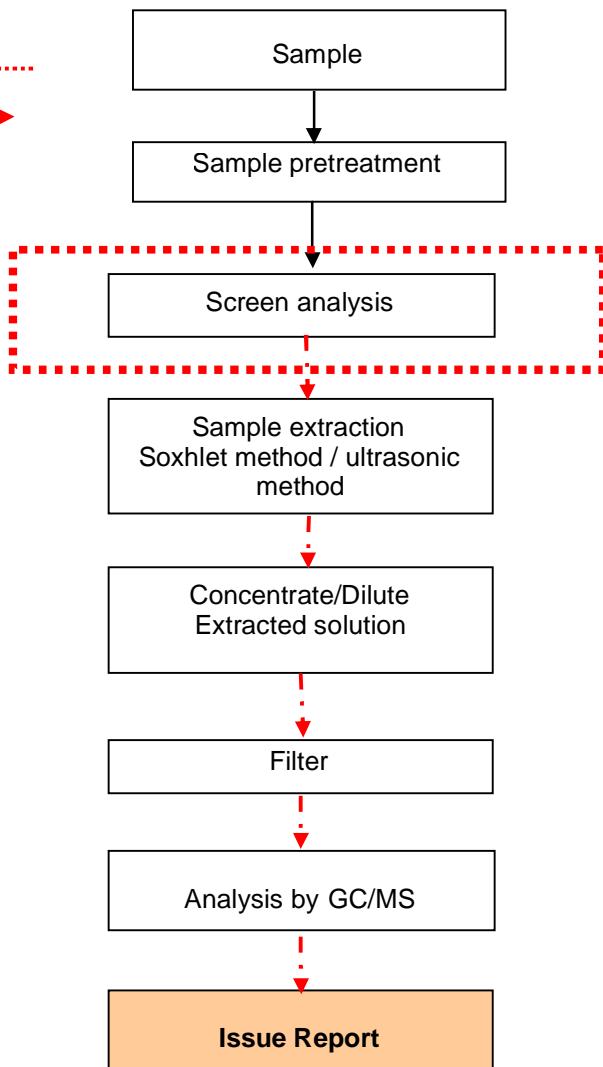
First testing process



Optional screen process



Confirmation process



# 測試報告

號碼 : CE/2007/35653 日期 : 2007/03/22 頁數 : 6 of 6



協祐股份有限公司

WGJ COMPANY LTD.

桃園縣龜山鄉頂湖五街5號

5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333,  
TAIWAN



\*\* 報告結尾 \*\*

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SGS TAIWAN LIMITED

NO. 136-1, Wu Kung Road, WuKu Industrial Zone, Taipei county, Taiwan.  
t(886-2) 22993939 f(886-2) 2299-3237 [www.sgs.com.tw](http://www.sgs.com.tw)

**測試報告**

號碼 : CE/2007/72824

日期 : 2007/07/18

頁數 : 1 of 3

唐正企業有限公司  
台北縣中和市中正路861巷11號



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：

樣品名稱 : 空心管實心針之黃銅材質裸面處理  
收件日期 : 2007/07/11  
測試期間 : 2007/07/11 TO 2007/07/18

=====

測試需求 : 參照 RoHS 2002/95/EC 及其修定指令要求.

測試方法 : 參考 IEC 62321, Ed. 1 111/54/CDV方法檢測.  
(1) 用感應耦合電漿原子發射光譜儀(ICP-AES)檢測鎘含量.  
(2) 用感應耦合電漿原子發射光譜儀(ICP-AES)檢測鉛含量.  
(3) 用感應耦合電漿原子發射光譜儀(ICP-AES)檢測汞含量.  
(4) 針對金屬材質之樣品，用Spot test / Colorimetric方法檢測六價鉻含量.

測試結果 : 請見下一页.

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei

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**測試報告**

號碼 : CE/2007/72824 日期 : 2007/07/18 頁數 : 2 of 3

唐正企業有限公司  
台北縣中和市中正路861巷11號

測試結果 (單位: mg/kg)

測試項目	測試方法 (請參考)	結果	方法偵測 極限值
		No.1	
鎘	(1)	3	2
鉛	(2)	64	2
汞	(3)	n.d.	2
六價鉻 (Spot test / boiling water extraction)	(4)	Negative	備註 4

**測試部位描述:**

NO.1 : 黃色金屬

備註 : 1. mg/kg = ppm

2. n.d. = Not Detected / 未檢出

3. MDL = Method Detection Limit / 方法偵測極限值

4. Spot-test:

Negative=鍍層中偵測不到六價鉻, Positive=鍍層中偵測到六價鉻;

當該測項無法確認時, 測試樣品可藉由boiling-water-extraction測試方法進一步確認

Boiling-water-extraction:

Negative=鍍層中偵測不到六價鉻, Positive=鍍層中偵測到六價鉻;

該濃度溶液 $\geq$ 0.02 mg/kg with 50 cm<sup>2</sup> (sample surface area)

**測試報告**

號碼 : CE/2007/72824 日期 : 2007/07/18 頁數 : 3 of 3

唐正企業有限公司  
台北縣中和市中正路861巷11號



\*\* 報告結尾 \*\*

## 測試報告

號碼 : CE/2007/42867 日期 : 2007/04/19 頁數 : 1 of 4

至昇股份有限公司  
GIH SHENG CO., LTD.

台北縣樹林市俊英街160巷5號  
NO. 5, LANE 160, CHUN-YING ST., SHU-LIN CITY, TAIPEI HSIEN

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

樣品名稱(Sample Description) : 銅棒  
樣品型號(Style/Item No.) : C3604  
收件日期(Sample Receiving Date) : 2007/04/13  
測試期間(Testing Period) : 2007/04/13 TO 2007/04/19

測試需求 / Test Requested : 參照 RoHS 2002/95/EC 及其修定指令要求. / In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method : 參考 IEC 62321, Ed. 1 111/54/CDV方法檢測. / With reference to IEC 62321, Ed.1 111/54/CDV. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.  
(1) 用感應耦合電漿原子發射光譜儀檢測鎘含量. / Determination of Cadmium by ICP-AES.  
(2) 用感應耦合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.  
(3) 用感應耦合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.  
(4) 針對金屬材質之樣品，用Spot test / Colorimetric方法檢測六價鉻含量. / Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.

測試結果 / Test Result(s) : 請見下頁.

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAWAN LTD.

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## 測試報告

號碼 : CE/2007/42867 日期 : 2007/04/19 頁數 : 2 of 4

至昇股份有限公司

GIH SHENG CO., LTD.

台北縣樹林市俊英街160巷5號

NO. 5, LANE 160, CHUN-YING ST., SHU-LIN CITY, TAIPEI HSIEN

### 測試結果 (單位: mg/kg) / Test Result(s)

測試項目 / Test Item (s):	測試方法 Method (Refer to)	結果 / Result	方法偵測 極限值 (MDL)
		No.1	
鎘 / Cadmium (Cd)	(1)	40	2
鉛 / Lead (Pb)	(2)	33000	2
汞 / Mercury (Hg)	(3)	n.d.	2
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4

### 測試部位描述 / TEST PART DESCRIPTION:

NO.1 : 金色金屬 / GOLDEN COLORED METAL

Note : 1. mg/kg = ppm

2. n.d. = Not Detected / 未檢出

3. MDL = Method Detection Limit / 方法偵測極限值

4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Negative=鏡層中偵測不到六價鉻, Positive= 鏡層中偵測到六價鉻;

當該測項無法確認時, 測試樣品可藉由boiling-water-extraction測試方法進一步確認

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer; the detected concentration in  
boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup>  
sample surface area.

Negative=鏡層中偵測不到六價鉻, Positive=鏡層中偵測到六價鉻;

該濃度溶液 $\geq$ 0.02 mg/kg with 50 cm<sup>2</sup> (sample surface area)

## 測試報告

號碼 : CE/2007/42867 日期 : 2007/04/19 頁數 : 3 of 4

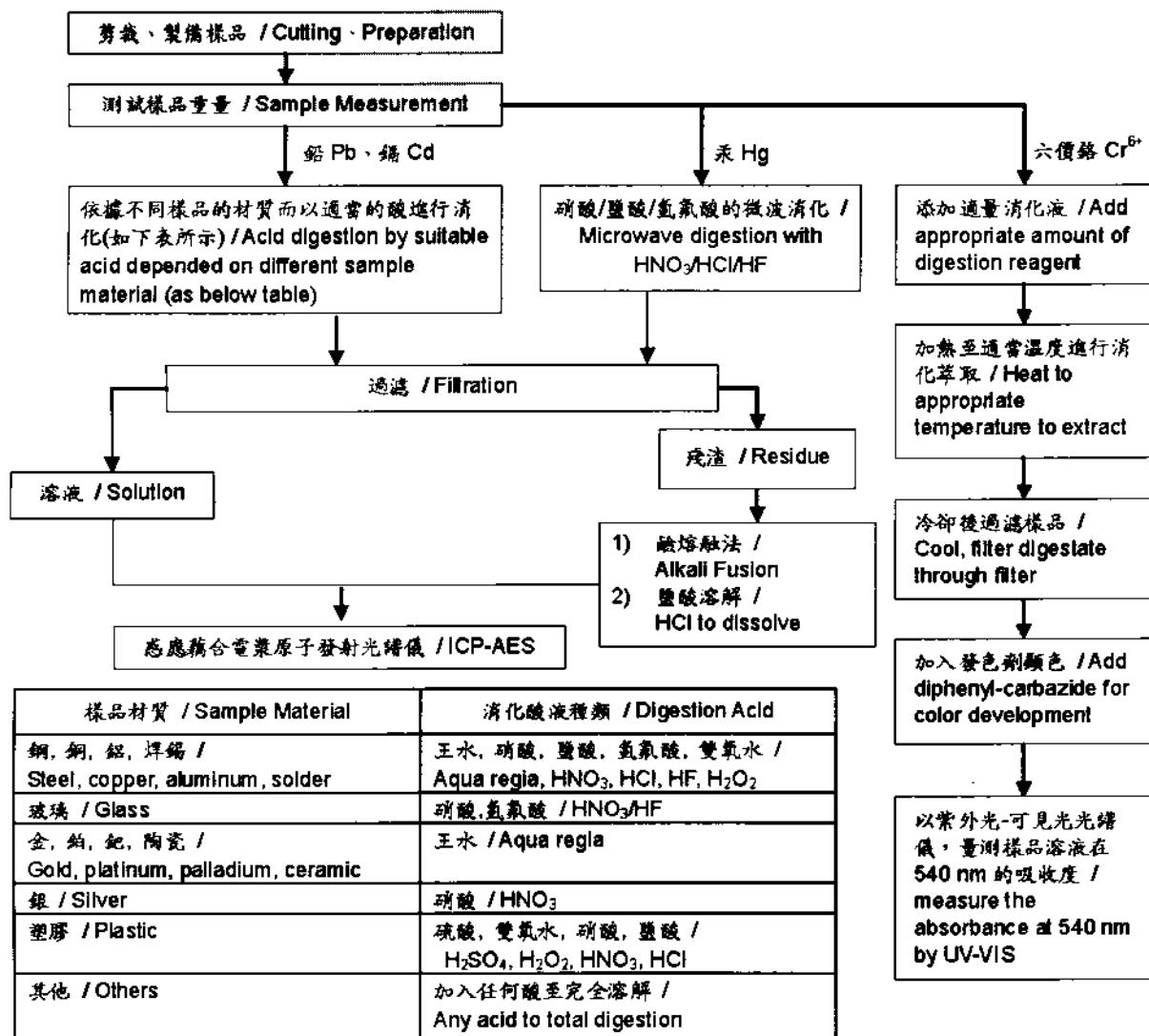
至昇股份有限公司

GIH SHENG CO., LTD.

台北縣樹林市俊英街160巷5號

NO. 5, LANE 160, CHUN-YING ST., SHU-LIN CITY, TAIPEI HSIEN

- 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<sup>6+</sup> test method excluded)
- 測試人員：張啓興 / Name of the person who made measurement: Troy Chang
- 測試負責人：葉禮源 / Name of the person in charge of measurement: Daniel Yeh



## 測試報告

號碼 : CE/2007/42867 日期 : 2007/04/19 頁數 : 4 of 4

至昇股份有限公司  
GIH SHENG CO., LTD.  
台北縣樹林市俊英街160巷5號  
NO. 5, LANE 160, CHUN-YING ST., SHU-LIN CITY, TAIPEI HSIEN



\*\* 報告結尾 \*\*

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# Test Report

No. : CE/2007/32435  
Date : 2007/03/15  
Page : 1 of 4  
\*CE/2007/32435\*

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

Sample Description : TEFLON ROD/TUBE  
Style/Item No. : TEFLON ROD/TUBE  
Sample Receiving Date : 2007/03/08  
Testing Period : 2007/03/08 TO 2007/03/15

===== =

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



Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

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# Test Report

No. : CE/2007/32435  
Date : 2007/03/15  
Page : 2 of 4  
\*CE/2007/32435\*

## Test Result(s)

PART NAME NO.1 : WHITE RUBBER

Test Item (s):	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to US EPA Method 3052 for Cadmium Content. Analysis was performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium for non-metallic samples. Analysis was performed by UV/Vis Spectrometry.	2	n.d.
Polychlorinated Biphenyls (PCBs) (CAS NO.: 001336-36-3)	mg/kg	With reference to USEPA8270D method. Analysis was performed by GC/MS.	0.5	n.d.
Polychlorinated Naphthalene (PCNs)	mg/kg	With reference to USEPA8270D method. Analysis was performed by GC/MS.	5	n.d.
Chlorinated Paraffin (C10~C13) (CAS NO.: 010871-26-2)	%	With reference to USEPA8270D method. Analysis was performed by GC/MS.	0.01	n.d.

Note : 1. mg/kg = ppm  
2. n.d. = Not Detected  
3. MDL = Method Detection Limit  
4. The MDL is 5ppm for the single compound of CP

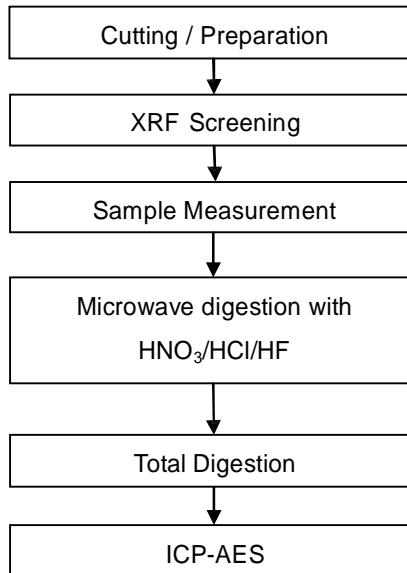
# Test Report

No. : CE/2007/32435  
Date : 2007/03/15  
Page : 3 of 4  
\*CE/2007/32435\*

Per requirements of SONY QAR-05-002:

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

## Flow Chart of Digestion for Plastic -EPA3052 for Pb、Cd (without residue)



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# Test Report

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\*\* End of Report  
\*\*

**測試報告**

號碼 : CE/2007/16283 日期 : 2007/01/31 頁數 : 1 of 5

誠貿科技股份有限公司

TAIMAO TECHNOLOGY CO., LTD.

台北縣五股工業區五權五路18號

NO. 18, WUCHUN 5TH RD., WUKU IND. ZONE, TAIPEI HSIEN, TAIWAN

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

樣品名稱(Sample Description) : 鍍銅棒  
樣品型號(Style/Item No.) : C17300 M25  
收件日期(Sample Receiving Date) : 2007/01/24  
測試期間(Testing Period) : 2007/01/24 TO 2007/01/31

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測試需求 / Test Requested : 參照 RoHS 2002/95/EC 及其修定指令要求. / In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method : 參考 IEC 62321, Ed. 1 111/54/CDV方法檢測. / With reference to IEC 62321, Ed.1 111/54/CDV. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

- (1) 用感應耦合電漿原子發射光譜儀檢測鎘含量. / Determination of Cadmium by ICP-AES.
- (2) 用感應耦合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.
- (3) 用感應耦合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
- (4) 針對金屬材質之樣品，用Spot test / Colorimetric方法檢測六價鉻含量. / Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.
- (5) 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / Determination of PBB and PBDE by GC/MS.

測試結果 / Test Result(s) : 請見下頁.



Daniel Yen, M.R. - Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

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## 測試報告

號碼 : CE/2007/16283 日期 : 2007/01/31 頁數 : 2 of 5

鉛貿科技股份有限公司

TAIMAO TECHNOLOGY CO., LTD.

台北縣五股工業區五權五路18號

NO. 18, WUCHUN 5TH RD., WUKU IND. ZONE, TAIPEI HSIEN, TAIWAN

## 測試結果 (單位: mg/kg) / Test Result(s)

測試項目 / Test Item (s):	測試方法 Method (Refer to)	結果 / Result		方法偵測 極限值 (MDL)
		No.1		
錫 / Cadmium (Cd)	(1)	n.d.	2	
鉛 / Lead (Pb)	(2)	3334.4	2	
汞 / Mercury (Hg)	(3)	n.d.	2	
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 5	
多溴聯苯總和 / Sum of PBBs	(5)	n.d.	-	
一溴聯苯 / Monobromobiphenyl		n.d.	5	
二溴聯苯 / Dibromobiphenyl		n.d.	5	
三溴聯苯 / Tribromobiphenyl		n.d.	5	
四溴聯苯 / Tetrabromobiphenyl		n.d.	5	
五溴聯苯 / Pentabromobiphenyl		n.d.	5	
六溴聯苯 / Hexabromobiphenyl		n.d.	5	
七溴聯苯 / Heptabromobiphenyl		n.d.	5	
八溴聯苯 / Octabromobiphenyl		n.d.	5	
九溴聯苯 / Nonabromobiphenyl		n.d.	5	
十溴聯苯 / Decabromobiphenyl		n.d.	5	
多溴聯苯醚總和 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-	
一溴聯苯醚 / Monobromobiphenyl ether		n.d.	5	
二溴聯苯醚 / Dibromobiphenyl ether		n.d.	5	
三溴聯苯醚 / Tribromobiphenyl ether		n.d.	5	
四溴聯苯醚 / Tetrabromobiphenyl ether		n.d.	5	
五溴聯苯醚 / Pentabromobiphenyl ether		n.d.	5	
六溴聯苯醚 / Hexabromobiphenyl ether		n.d.	5	
七溴聯苯醚 / Heptabromobiphenyl ether		n.d.	5	
八溴聯苯醚 / Octabromobiphenyl ether		n.d.	5	
九溴聯苯醚 / Nonabromobiphenyl ether		n.d.	5	
十溴聯苯醚 / Decabromobiphenyl ether		n.d.	5	
多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca)		n.d.	-	

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**測試報告**

號碼 : CE/2007/16283 日期 : 2007/01/31 頁數 : 3 of 5



鉅賀科技股份有限公司

TAIMAO TECHNOLOGY CO., LTD.

台北縣五股工業區五權五路18號

NO. 18, WUCHUN 5TH RD., WUKU IND. ZONE, TAIPEI HSIEN, TAIWAN

**測試部位描述 / TEST PART DESCRIPTION:**

NO.1 : 銅色金屬 / COPPER COLORED METAL

Note : 1. mg/kg = ppm

2. n.d. = Not Detected / 未檢出

3. MDL = Method Detection Limit / 方法偵測極限值

4. Sum of Mono to NonabDE &amp; according to 2005/717/EC DecabDE is exempt.

根據2005年10月13日歐盟會議公佈2005/717/EC，修訂2002/95/EC內容，通過解除  
高分子材質中十溴聯苯醚之使用限制。

## 5. Spot-test:

Negative = Absence of CrVI coating / surface layer,

Positive = Presence of CrVI coating / surface layer;

(The tested sample should be further verified by boiling-water-extraction method if the  
spot test result cannot be confirmed.)

Negative=鍍層中偵測不到六價鉻, Positive=鍍層中偵測到六價鉻;

當該測項無法確認時，測試樣品可藉由boiling-water-extraction測試方法進一步確認

## Boiling-water-extraction:

Negative = Absence of CrVI coating / surface layer,

Positive = Presence of CrVI coating / surface layer; the detected concentration in  
boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup>  
sample surface area.

Negative=鍍層中偵測不到六價鉻, Positive=鍍層中偵測到六價鉻;

該濃度溶液 $\geq$ 0.02 mg/kg with 50 cm<sup>2</sup> (sample surface area)

## 6. "-" = Not Regulated / 無規格值

**測試報告**

號碼 : CE/2007/16283 日期 : 2007/01/31 頁數 : 4 of 5

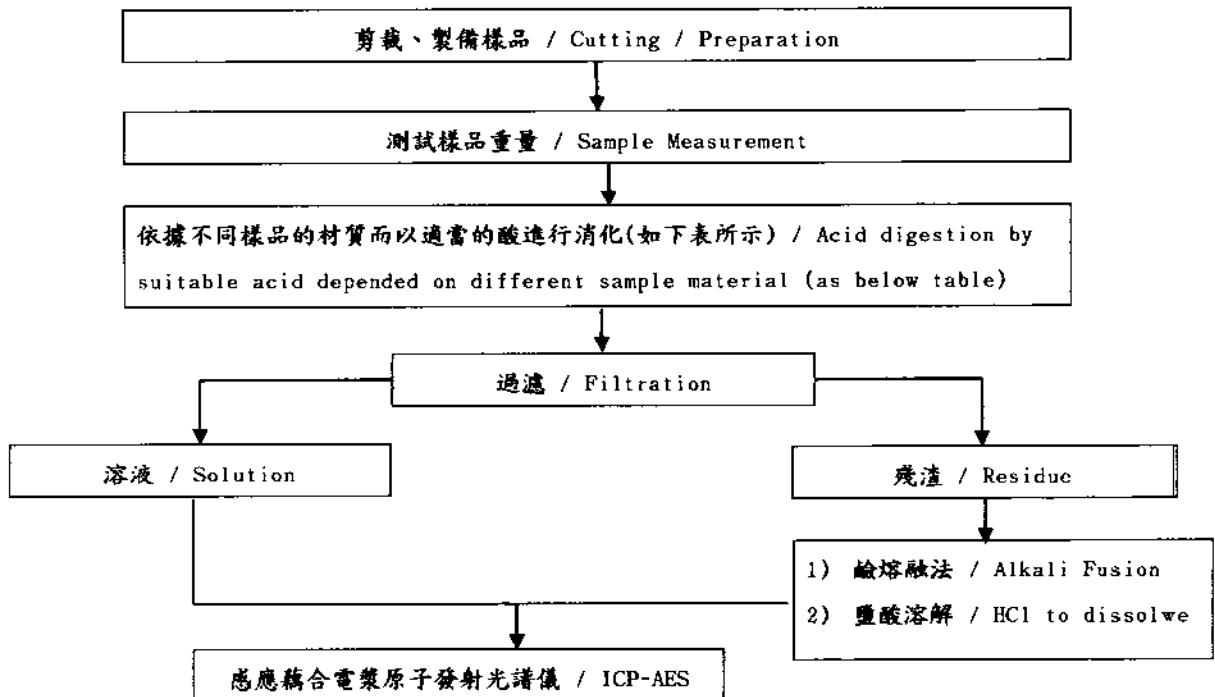
鉅貿科技股份有限公司

TAIMAO TECHNOLOGY CO., LTD.

台北縣五股工業區五權五路18號

NO. 18, WUCHUN 5TH RD., WUKU IND. ZONE, TAIPEI HSIEN, 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：張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人：葉禮源 / Name of the person in charge of measurement: Daniel Yeh

**鎘、鉛的消化流程圖 / Method 1: Flow Chart of Digestion for Cd、Pb analysis**

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

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**測試報告**

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欽貿科技股份有限公司

TAIMAO TECHNOLOGY CO., LTD.

台北縣五股工業區五權五路18號

NO. 18, WUCHUN 5TH RD., WUKU IND. ZONE, TAIPEI HSIEN, TAIWAN



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# Test Report

No. :KC/2007/30088A-02 Date: 2007/05/14 Page: 1 of 4

GENERAL SILICONE CO., LTD.

NO.345, DAJHONG 2ND RD., ZUOYING DISTRICT, KAOHSIUNG CITY 813, TAIWAN  
(R.O.C.)

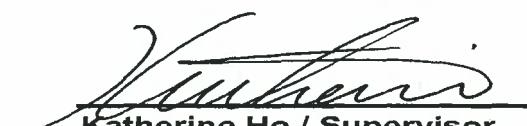


The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : SILICONE  
Style/Item No. : SE-6075,6035,XE-23-703U,XE-23-B2484  
Color : (1)YELLOW (2)TRANSPARENT (3) TRANSPARENT (4) LT. YELLOW  
Sample Receiving Date : 2007/03/12  
Testing Period : 2007/03/12 TO 2007/3/16

=====  
**Test Requested** : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.  
**Test Method** : (1) With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.  
(2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.  
(3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.  
(4) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium for non-metallic samples. Analysis was performed by UV/Vis Spectrometry.  
(5) With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.

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



**Katherine Ho / Supervisor**  
Signed for and on behalf of  
SGS Taiwan Limited

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**TW4920439**

# Test Report

No. :KC/2007/30088A-02

Date: 2007/05/14 Page: 2 of 4

GENERAL SILICONE CO., LTD.

NO.345, DAJHONG 2ND RD., ZUOYING DISTRICT, KAOHSIUNG CITY 813, TAIWAN  
(R.O.C.)



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI)	(4)	n.d.	2
<b>Sum of PBBs</b>		n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
<b>Sum of PBDEs (Mono to Nona)(Note 4)</b>	(5)	n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
<b>Sum of PBDEs (Mono to Deca)</b>		n.d.	-

## TEST PART DESCRIPTION:

NO.1 : MIX 4 SILICONE TEST:SE-6075,6035,XE-23-703U,XE-23-B2484

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TW4920438

# Test Report

No. :KC/2007/30088A-02 Date: 2007/05/14 Page: 3 of 4

GENERAL SILICONE CO., LTD.  
NO.345, DAJHONG 2ND RD., ZUOYING DISTRICT, KAOHSIUNG CITY 813, TAIWAN  
(R.O.C.)



Note : 1. mg/kg = ppm  
2. n.d. = Not Detected  
3. MDL = Method Detection Limit  
4. According to 2005/717/EC DecaBDE is exempt.  
5. " - " = Not Regulated

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TW 4920437

# Test Report

No. :KC/2007/30088A-02 Date: 2007/05/14 Page: 4 of 4

GENERAL SILICONE CO., LTD.  
NO.345, DAJHONG 2ND RD., ZUOYING DISTRICT, KAOHSIUNG CITY 813, TAIWAN  
(R.O.C.)



\*\* End of Report \*\*

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TW4920436

**測試報告**

號碼 : CE/2007/20391 日期 : 2007/02/09 頁數 : 1 of 4

慶邦工業有限公司

CHING-PANG INSTRIL CORP

台北縣新莊市新樹路69之49號

NO. 69-49, HSIN-SHU-ROAD, SHIN-CHUANG CITY, 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 sample(s) was/were submitted and identified by/on behalf of the client as):

樣品名稱 : 鎏金藥水  
Sample Description : GOLDEN LIQUID MEDICINE  
收件日期(Sample Receiving Date) : 2007/02/02  
測試期間(Testing Period) : 2007/02/02 TO 2007/02/09

=====

測試需求 / Test Requested : 參照 RoHS 2002/95/EC 及其修定指令要求. / In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method : 參考 IEC 62321, Ed. 1 111/54/CDV方法檢測. / With reference to IEC 62321, Ed.1 111/54/CDV. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

- (1) 用感應耦合電漿原子發射光譜儀檢測鎘含量. / Determination of Cadmium by ICP-AES.
- (2) 用感應耦合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.
- (3) 用感應耦合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
- (4) 針對非金屬材質之樣品，用UV-VIS檢測六價鉻含量. / Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- (5) 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / Determination of PBB and PBDE by GC/MS.

測試結果 / Test Result(s) : 請見下頁.



Daniel Yen, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

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TW4557529

## 測試報告

號碼 : CE/2007/20391 日期 : 2007/02/09 頁數 : 2 of 4

慶邦工業有限公司

CHING-PANG INSTRIL CORP

台北縣新莊市新樹路69之49號

NO. 69-49, HSIN-SHU-ROAD, SHIN-CHUANG CITY, TAIWAN R. O. C.

## 測試結果 (單位: mg/kg) / Test Result(s)

測試項目 / Test Item (s):	測試方法 Method (Refer to)	結果 / Result	
		No.1	方法偵測 極限值 (MDL)
鎘 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	n.d.	2
汞 / Mercury (Hg)	(3)	n.d.	2
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
多溴聯苯總和 / Sum of PBBS	(5)	n.d.	-
一溴聯苯 / Monobromobiphenyl		n.d.	5
二溴聯苯 / Dibromobiphenyl		n.d.	5
三溴聯苯 / Tribromobiphenyl		n.d.	5
四溴聯苯 / Tetrabromobiphenyl		n.d.	5
五溴聯苯 / Pentabromobiphenyl		n.d.	5
六溴聯苯 / Hexabromobiphenyl		n.d.	5
七溴聯苯 / Heptabromobiphenyl		n.d.	5
八溴聯苯 / Octabromobiphenyl		n.d.	5
九溴聯苯 / Nonabromobiphenyl		n.d.	5
十溴聯苯 / Decabromobiphenyl		n.d.	5
多溴聯苯醚總和 (一至九溴) / Sum of PBDEs (Mono to Nonna) (Note 4)		n.d.	-
一溴聯苯醚 / Monobromobiphenyl ether		n.d.	5
二溴聯苯醚 / Dibromobiphenyl ether		n.d.	5
三溴聯苯醚 / Tribromobiphenyl ether		n.d.	5
四溴聯苯醚 / Tetrabromobiphenyl ether		n.d.	5
五溴聯苯醚 / Pentabromobiphenyl ether		n.d.	5
六溴聯苯醚 / Hexabromobiphenyl ether		n.d.	5
七溴聯苯醚 / Heptabromobiphenyl ether		n.d.	5
八溴聯苯醚 / Octabromobiphenyl ether		n.d.	5
九溴聯苯醚 / Nonabromobiphenyl ether		n.d.	5
十溴聯苯醚 / Decabromobiphenyl ether		n.d.	5
多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca)		n.d.	-

## 測試部位描述 / TEST PART DESCRIPTION:

NO.1 : 透明橘色液體 / TRANSPARENT-ORANGE LIQUID

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TW4557530



## 測試報告

號碼 : CE/2007/20391 日期 : 2007/02/09 頁數 : 3 of 4

慶邦工業有限公司

CHING-PANG INSTRIAL CORP

台北縣新莊市新樹路69之49號

NO. 69-49, HSIN-SHU-ROAD, SHIN-CHUANG CITY, TAIWAN R. O. C.

Note: 1. mg/kg = ppm

2. n.d. = Not Detected / 未檢出

3. MDL = Method Detection Limit / 方法偵測極限值

4. According to 2005/717/EC DecaBDE is exempt.

根據2005年10月13日歐盟會議公佈2005/717/EC，修訂2002/95/EC內容，通過解除  
高分子材質中十溴聯苯醚之使用限制。

5. "-" = Not Regulated / 無規格值

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TW4557531

**測試報告**

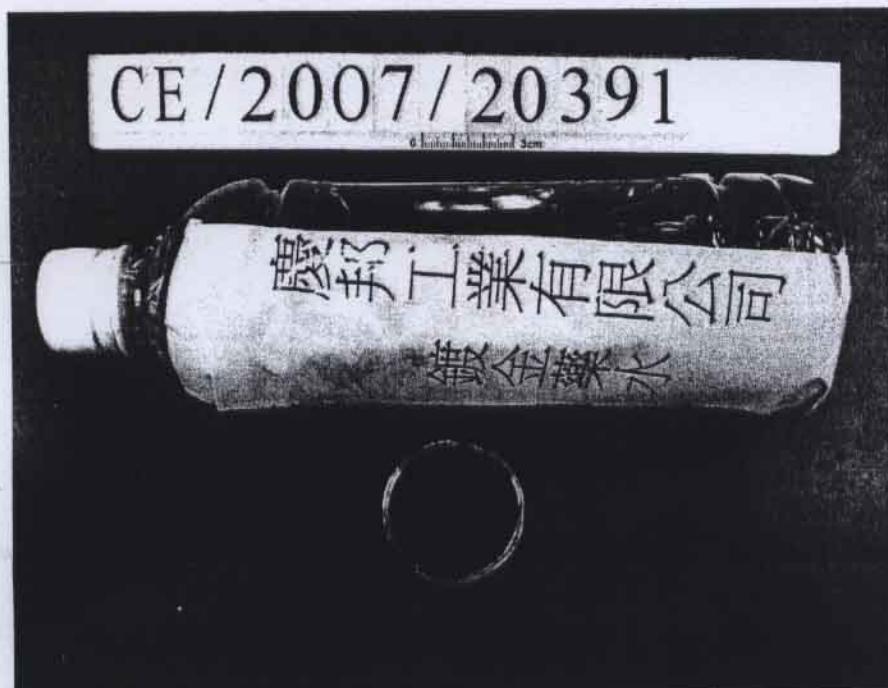
號碼 : CE/2007/20391 日期 : 2007/02/09 頁數 : 4 of 4

慶邦工業有限公司

CHING-PANG INSTRAL CORP

台北縣新莊市新樹路69之49號

NO. 69-49, HSIN-SHU-ROAD, SHIN-CHUANG CITY, TAIWAN R. O. C.



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TW4557532

# 至昇股份有限公司

## 材質證明-檢驗報告表

序號	廠商	品名規格	備註
1	宮前	8 H	
2	宮前	7 S	
3	宮前	6.5 丸	
4	宮前	5 丸	
5	宮前	2 丸	
6			
7			
8			
9			
10			

PS : SMA ( M / A / R ) CONNECTOR

A212-0780 / S660201600

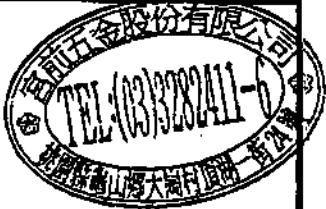
## 宮 前 五 金 股 份 有 限 公 司

KUON CHEN HARDWARE CO., LTD.

桃園縣龜山鄉頂湖一街 24 號  
24, 1ST. TING-HU, KUEI-SHAN HSIANG, TAO YUAN HSIEN, TAIWAN.  
TEL: (03)328-3068 FAX: (03)328-2515檢 驗 報 告 表

編號:

2007 / /

廠商名稱	至昇股份有限公司		
試材名稱	FREE CUTTING BRASS ROD		
合金編號	JIS H3250 C3604 BD		
項目 數 據	標準值	實測值	
化 學 成 份 %	Cu Pb Fe Sn+Fe Zn	57.0 - 61.0 1.8 - 3.7 < 0.5 < 1.2 REMAINDER	58.00 3.41 ----- 0.88 REMAINDER
備註	至昇股份有限公司 品名規格: 8 H 料號: _____ 日期: _____		

## 宮 前 五 金 股 份 有 限 公 司

KUON CHEN HARDWARE CO., LTD.

桃 圓 縣 龜 山 鄉 頂 湖 一 街 24 號  
24, 1ST. TING-HU, KUEI-SHAN HSIANG, TAO YUAN HSIEN, TAIWAN.

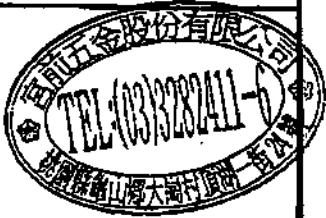
TEL: (03)328-3068

FAX: (03)328-2515

檢 驗 報 告 表

編號:

2007/ /

廠商名稱	至昇股份有限公司		
試材名稱	FREE CUTTING BRASS ROD		
合金編號	JIS H3250 C3604 BD		
項目 數 據	標 準 值	實 測 值	
化 學 成 份 %	Cu Pb Fe Sn+Fe Zn	57.0 - 61.0 1.8 - 3.7 < 0.5 < 1.2 REMAINDER	58.00 3.41 — 0.88 REMAINDER
備 註	至昇股份有限公司 品名規格: 7S 料號: 日期:		

## 宮前五金股份有限公司

KUON CHEN HARDWARE CO., LTD.

桃園縣龜山鄉頂湖一街 24 號

24, 1ST. TING-HU, KUEI-SHAN HSIANG, TAO YUAN HSIEN, TAIWAN.

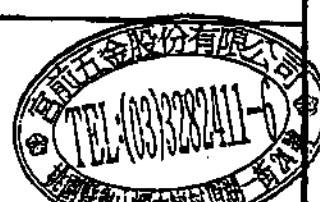
TEL: (03)328-3068

FAX: (03)328-2515

檢驗報告表

編號:

2007 / /

廠商名稱	至昇股份有限公司		
試材名稱	FREE CUTTING BRASS ROD		
合金編號	JIS H3250 C3604 BD		
項目 數 據	標準值	實測值	
化 學 成 份 %	Cu Pb Fe Sn+Fe Zn	57.0 - 61.0 1.8 - 3.7 < 0.5 < 1.2 REMAINDER	58.00 3.41 — 0.88 REMAINDER
備 註	至昇股份有限公司 品名規格:丸 6.5 % 料號: 日期:		

## 宮 前 五 金 股 份 有 限 公 司

KUON CHEN HARDWARE CO., LTD.

桃園縣龜山鄉頂湖一街 24 號  
24, 1ST. TING-HU, KUEI-SHAN HSIANG, TAO YUAN HSIEN, TAIWAN.

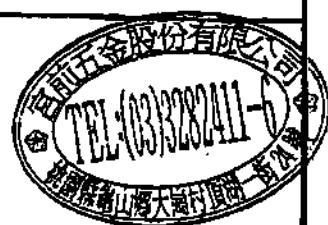
TEL: (03)328-3068

FAX: (03)328-2515

檢 驗 報 告 表

編號:

2007 / /

廠商名稱	至昇股份有限公司		
試材名稱	FREE CUTTING BRASS ROD		
合金編號	JIS H3250 C3604 BD		
項目 數 據	標準值	實測值	
化 學 成 份 %	Cu Pb Fe Sn+Fe Zn	57.0 - 61.0 1.8 - 3.7 < 0.5 < 1.2 REMAINDER	58.00 3.41 — 0.88 REMAINDER
備 註	至昇股份有限公司 品名規格: 丸 5 % 料號: 日期:		

## 宮前五金股份有限公司

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編號:

2007/ /

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試材名稱	FREE CUTTING BRASS ROD	
合金編號	JIS H3250 C3604 BD	
項目 數據	標準值	實測值
化 學 成 份 %		
Cu	57.0 - 61.0	58.00
Pb	1.8 - 3.7	3.41
Fe	< 0.5	-----
Sn+Fe	< 1.2	0.88
Zn	REMAINDER	REMAINDER
備註	至昇股份有限公司 品名規格:丸 2 % 料號: 日期:	
	