

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

TECHNICAL DATA

Electrical Properties

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

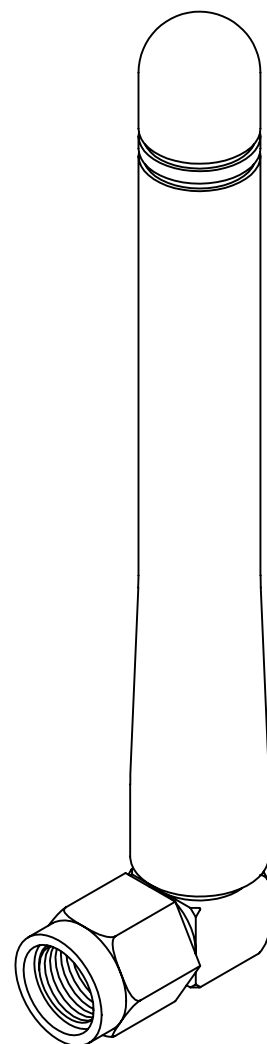
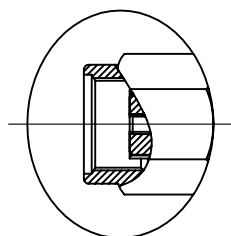
Antenna Cover: PU

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

版本說明

REVISION NOTE

容許公差

TOLERANCE

.XXX

±0.10

.XX

±0.25

.X

±0.38

X

±0.50

ANG

±3°

品名

ARTICLE

6602-2.4G-SMA

圖號

DWG NO.

6602104081

單位 UNIT

mm

比例 SCALE

2/1

張數 SHEET

1/1

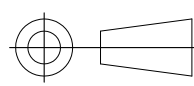
版本 REV.

A



KINSUN

慶陞



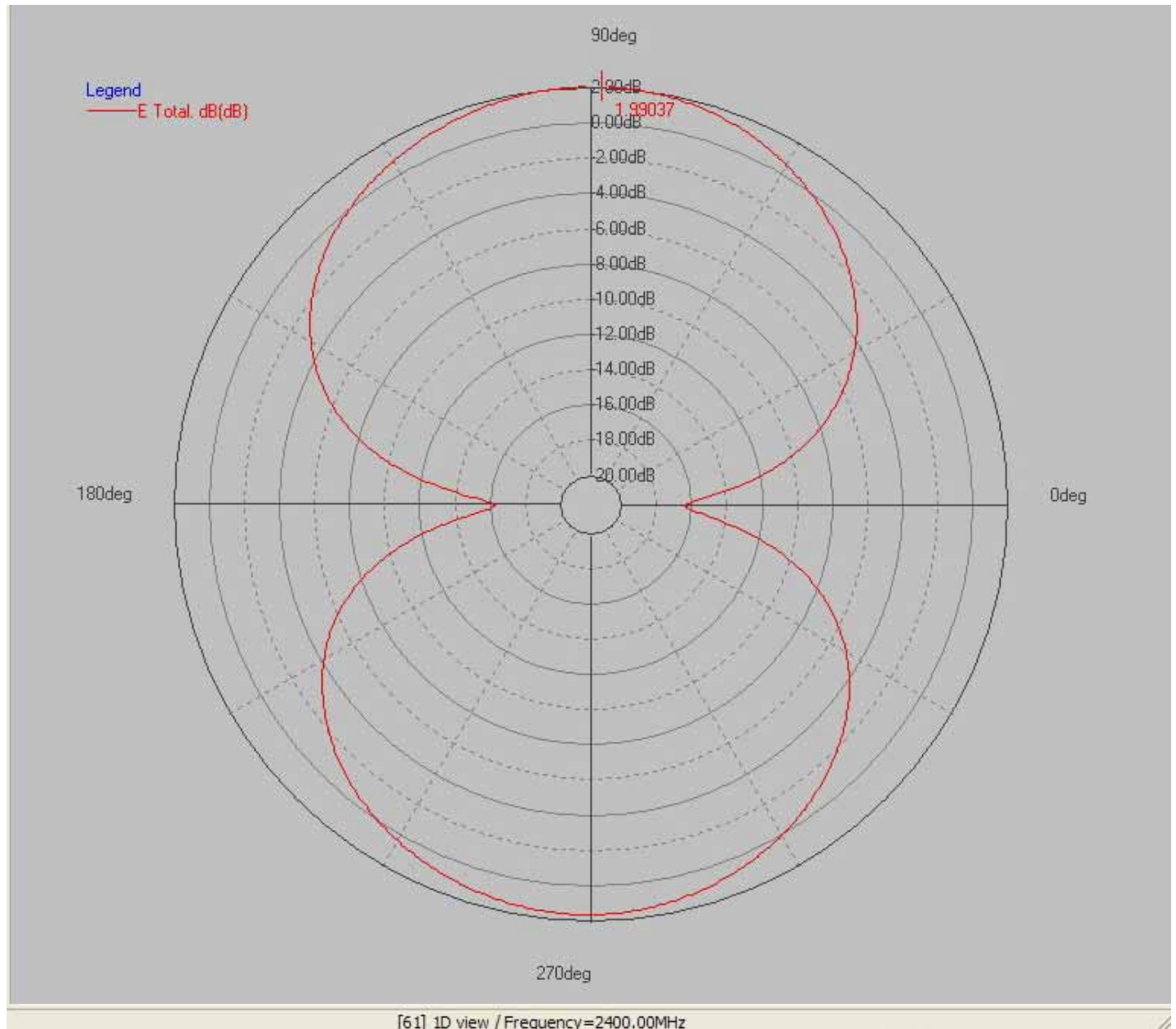
Brand / Model : 6602~SMA-M/S

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

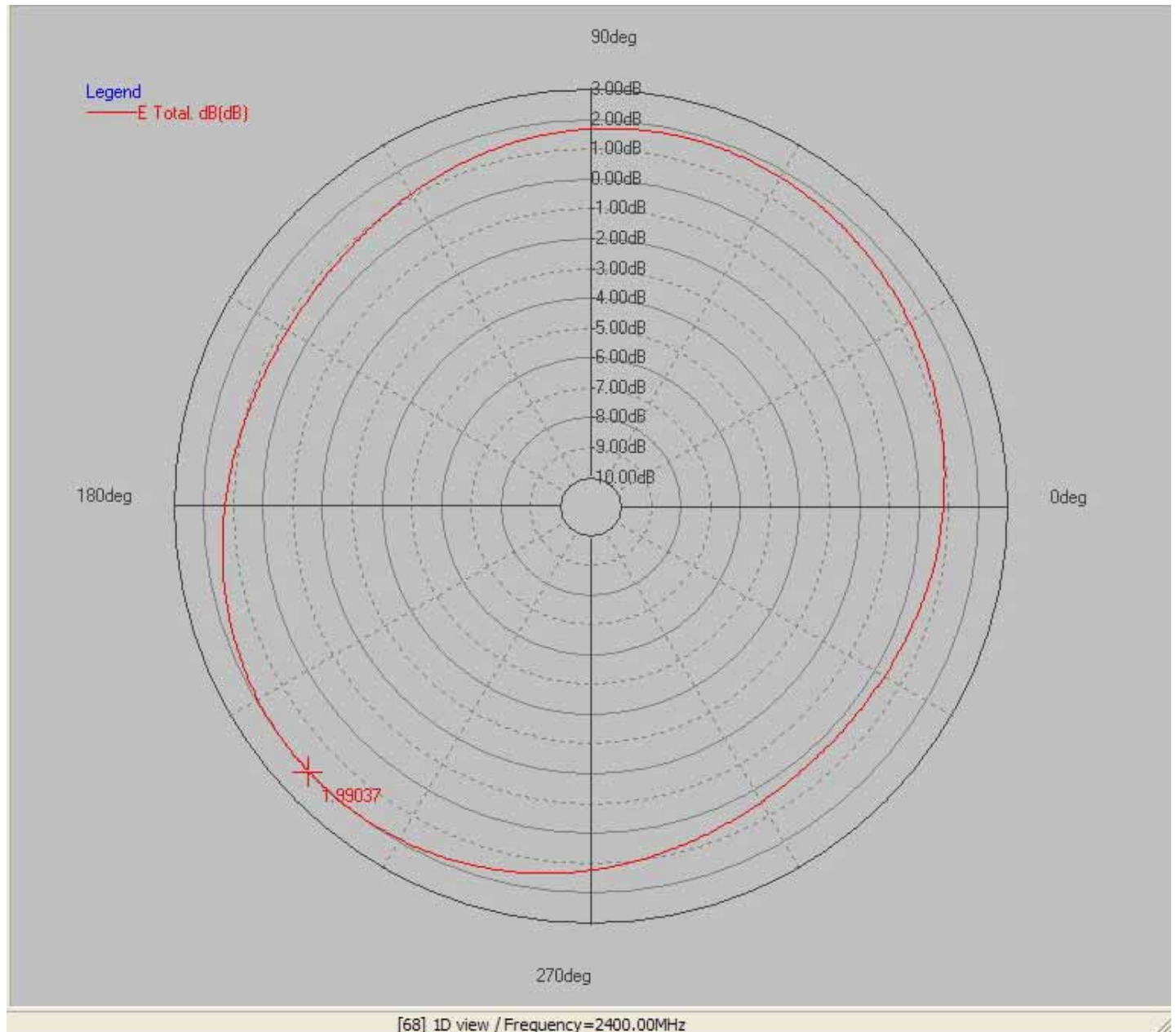
Brand / Model : 6602~SMA-M/S

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

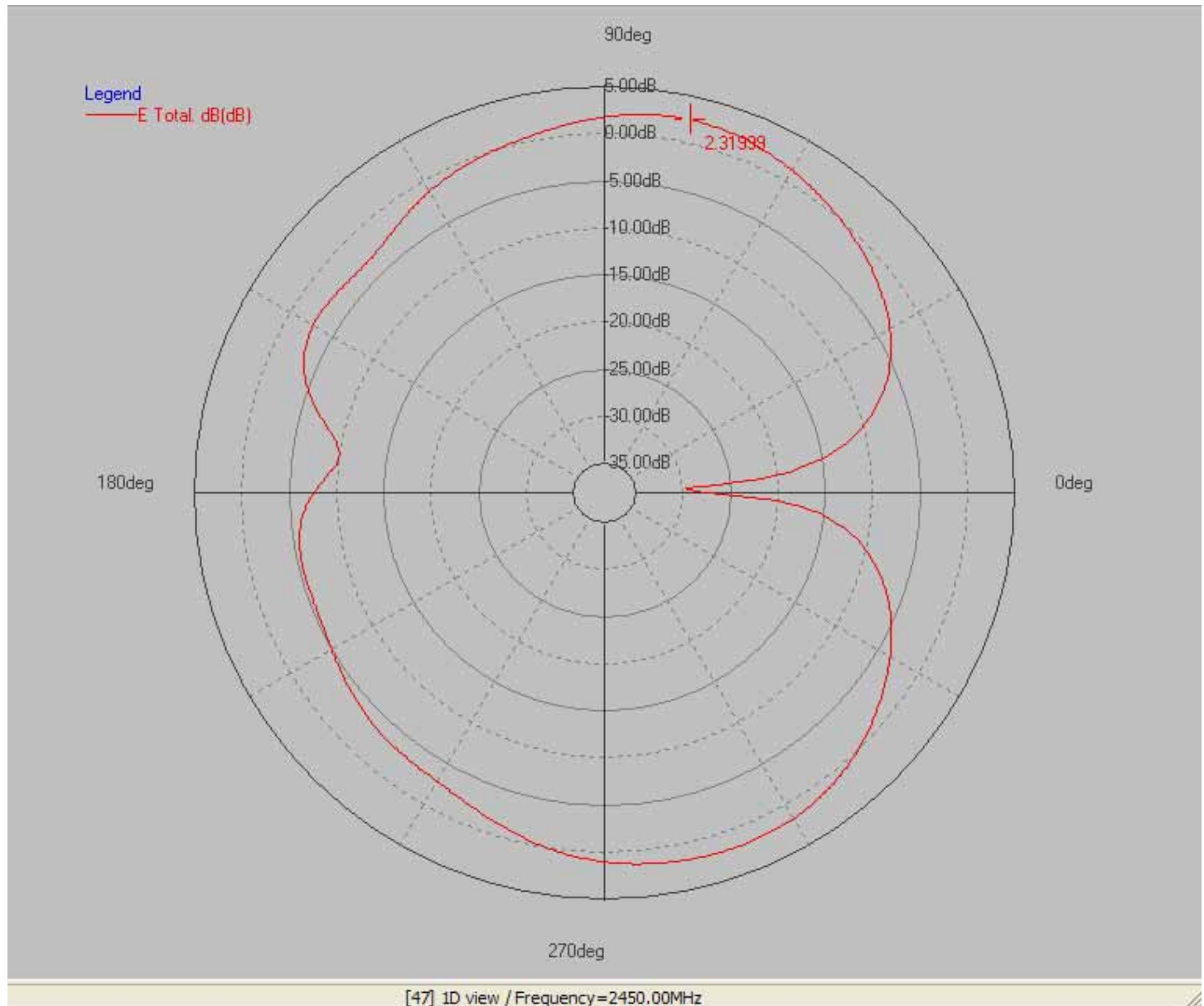
Brand / Model : 6602~SMA-M/S

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

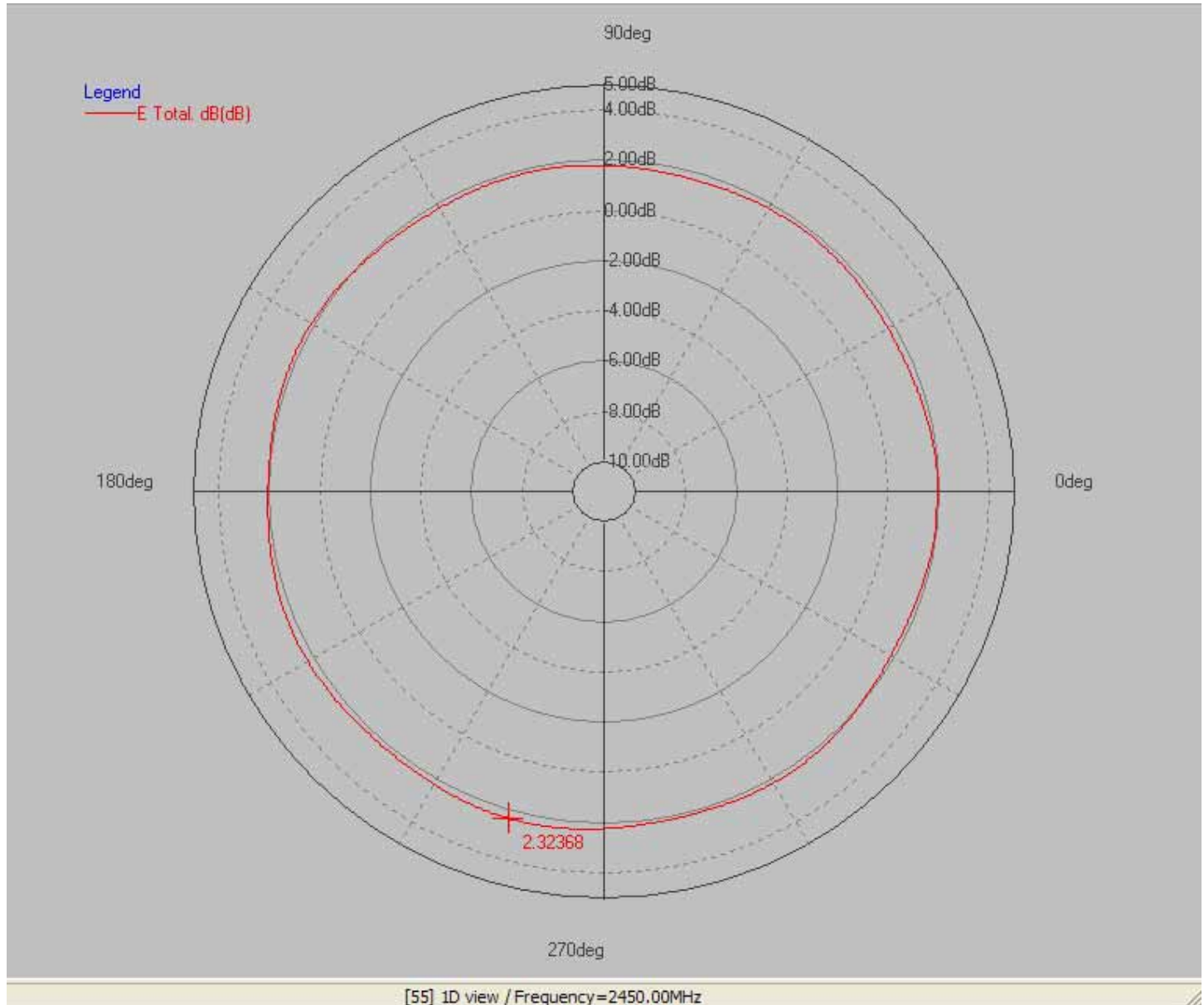
Brand / Model : 6602~SMA-M/S

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

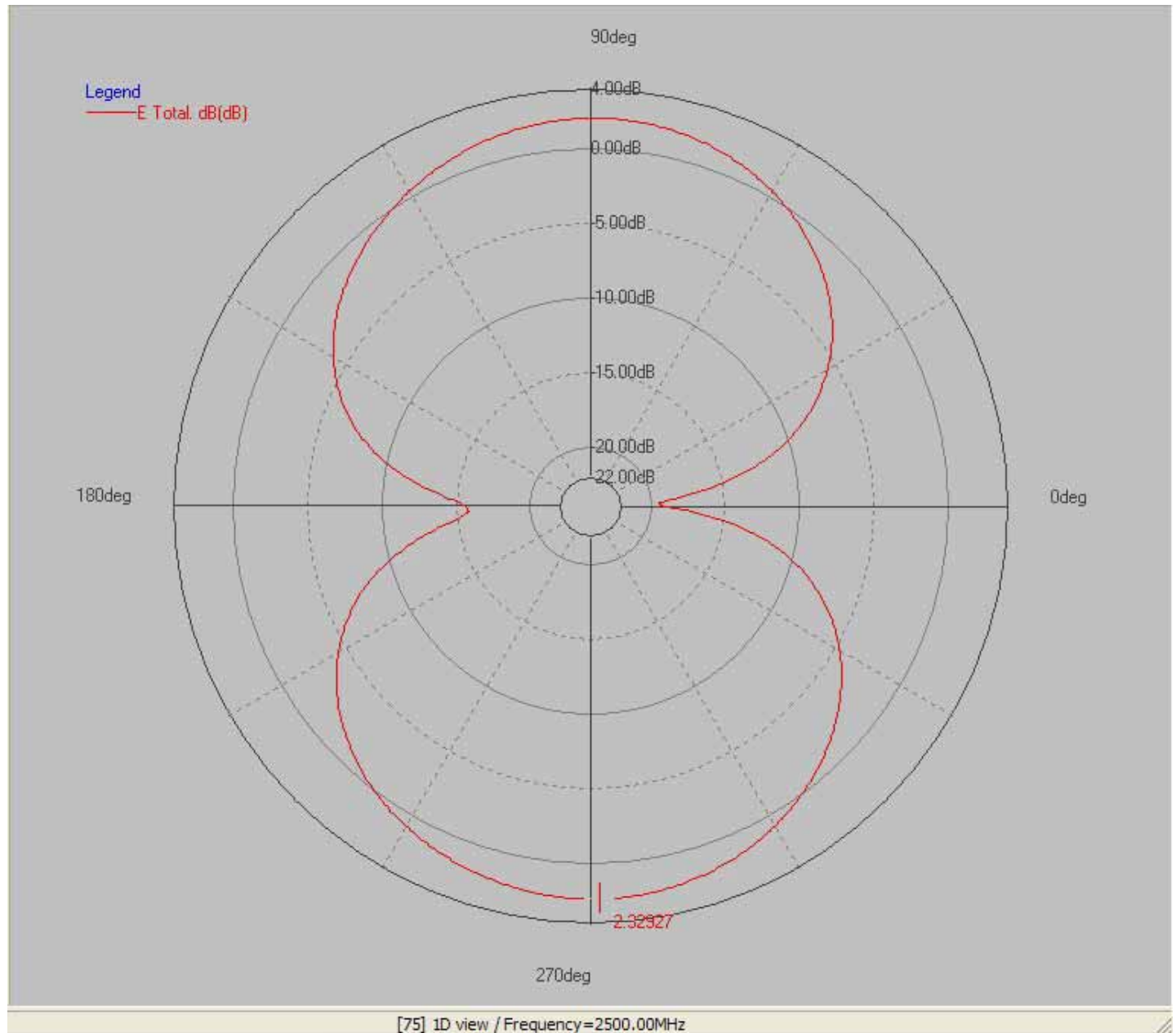
Brand / Model : 6602~SMA-M/S

Remark : 2500MHz

Tested by : Nick Dai

Date : 2005/06/02

Time : 上午 08 : 30



-- : 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**

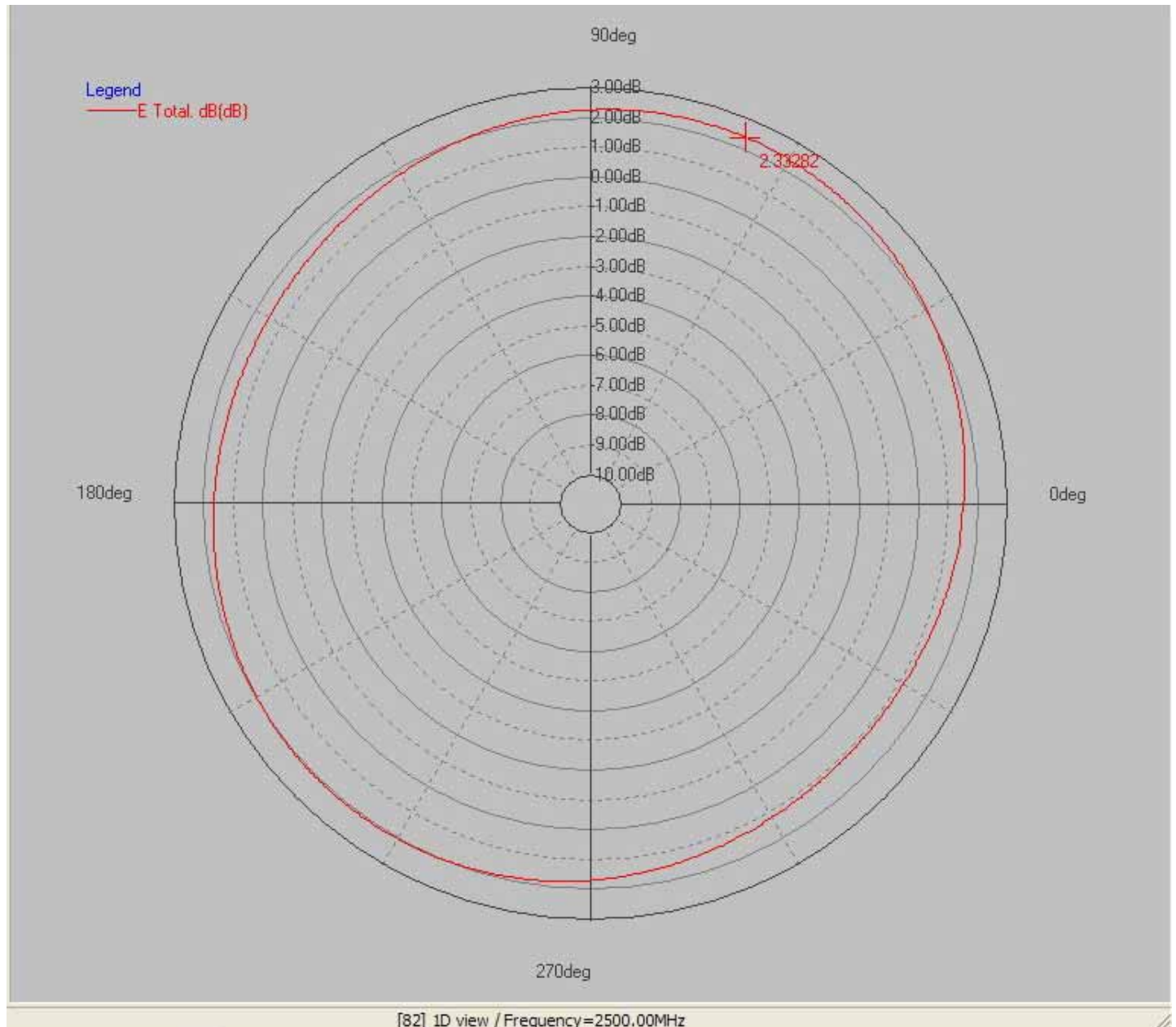
Brand / Model : 6602~SMA-M/S

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

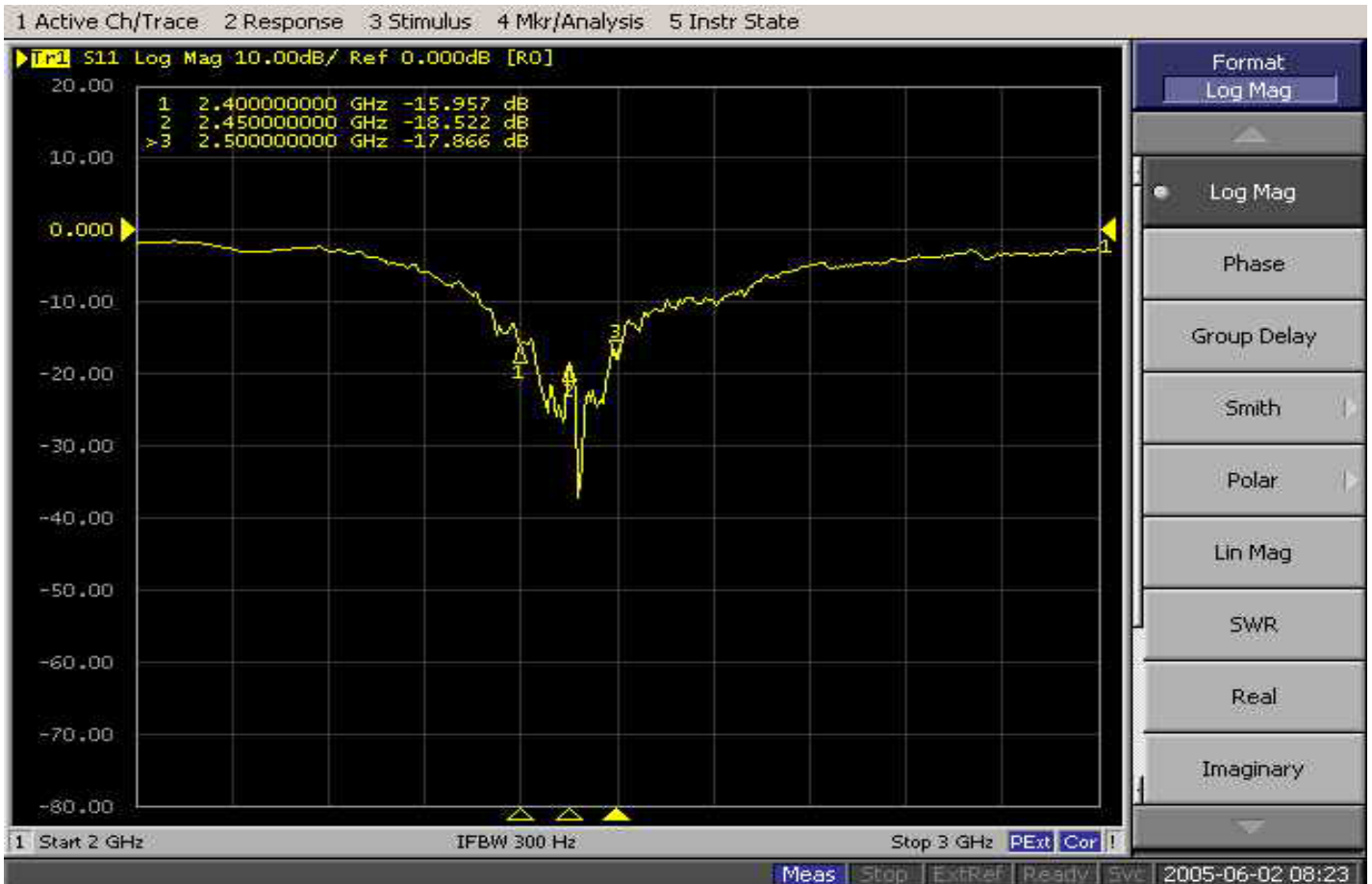
Maximum Gain(dB) : 2.33dB

Maximum Gain(degree) : 66.97

Minimum Gain(dB) : 1.08dB

Minimum Gain(degree) : 315.31

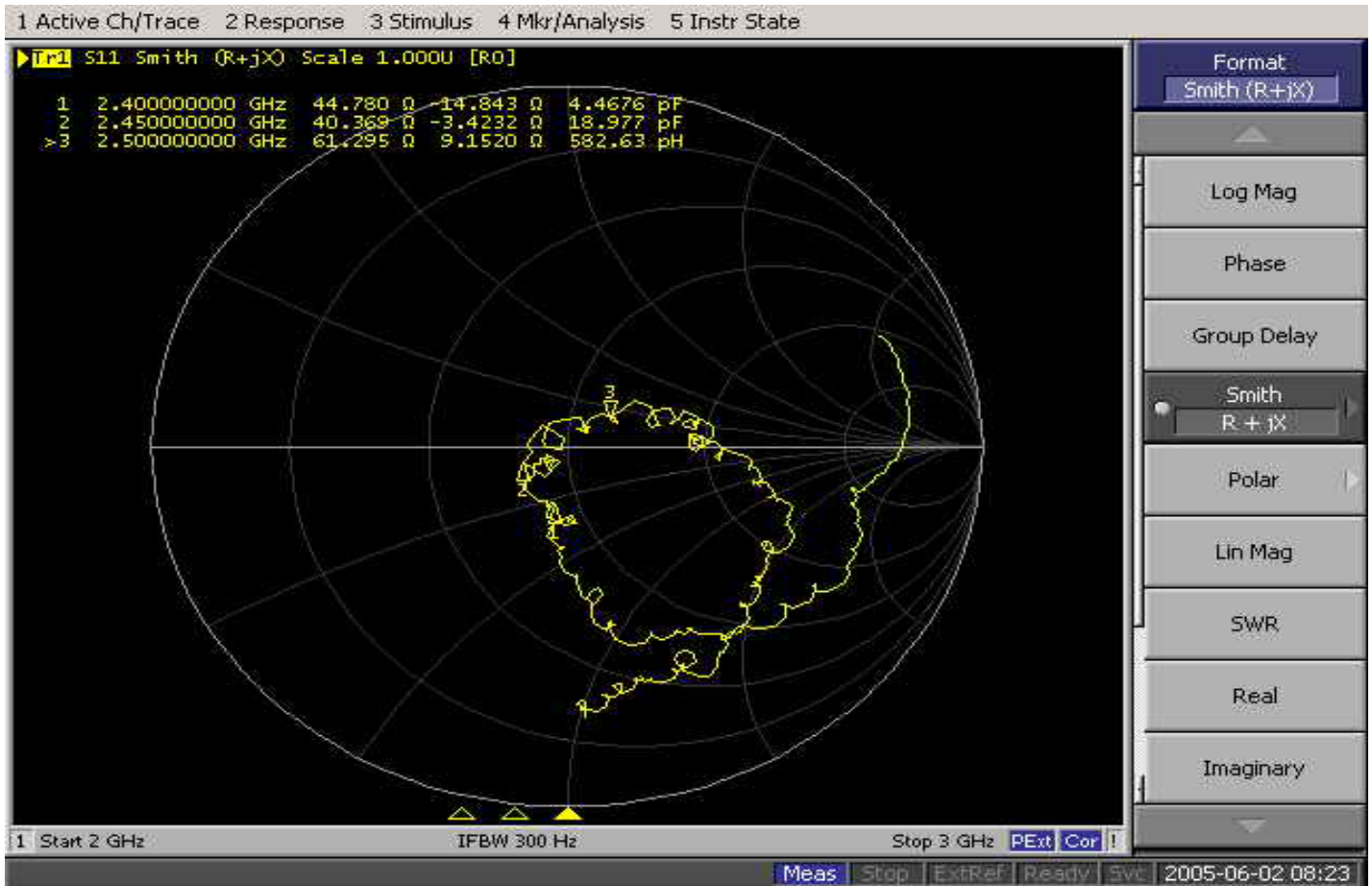
S11



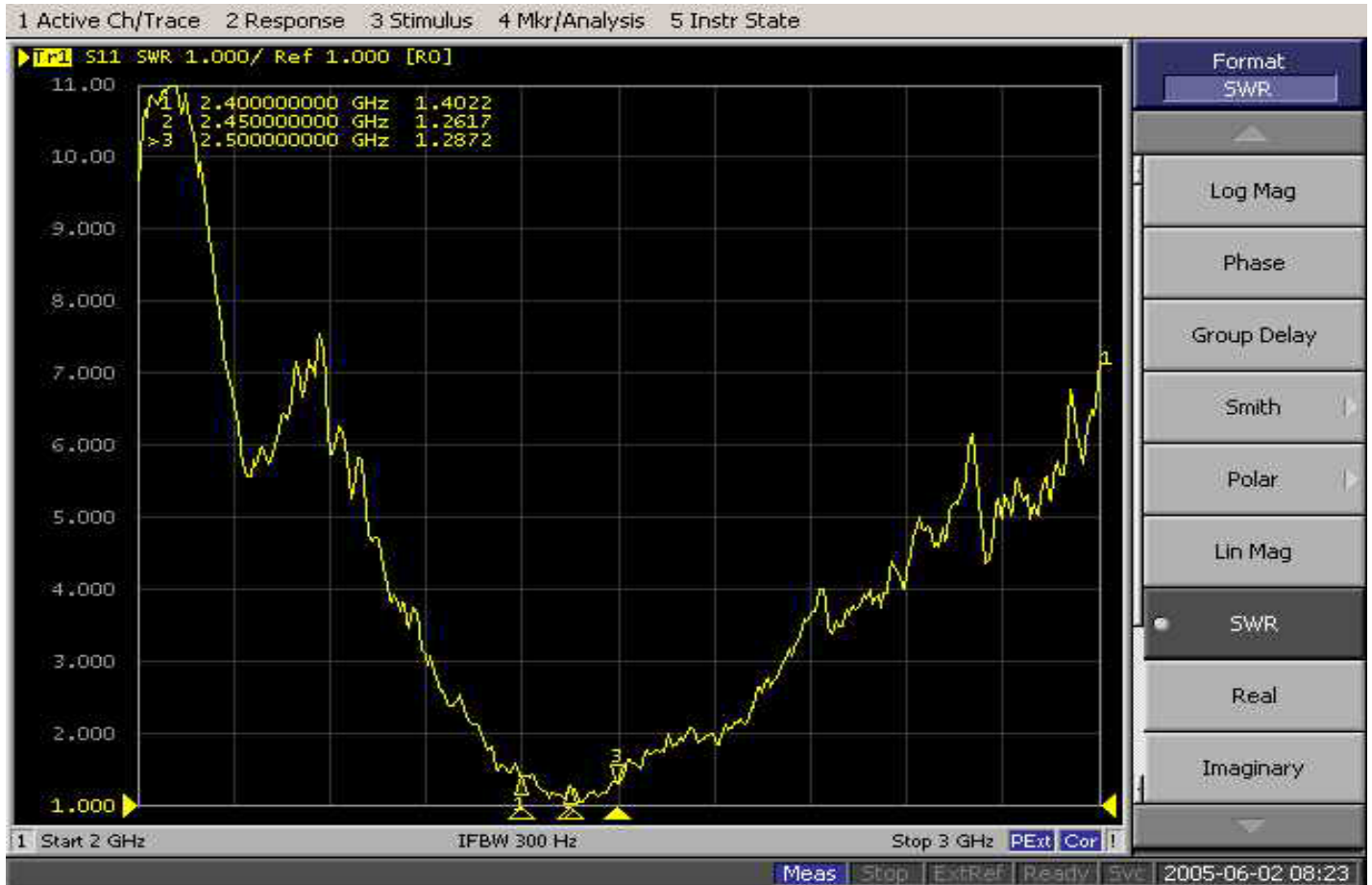
PHASE



SMITH



VSWR



測試報告

號碼：CE/2007/35653

日期：2007/03/22

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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

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) : 請見下一頁。

結論 / Conclusion : 根據客戶所提供樣品的測試結果，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

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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

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 | | 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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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

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協祐股份有限公司

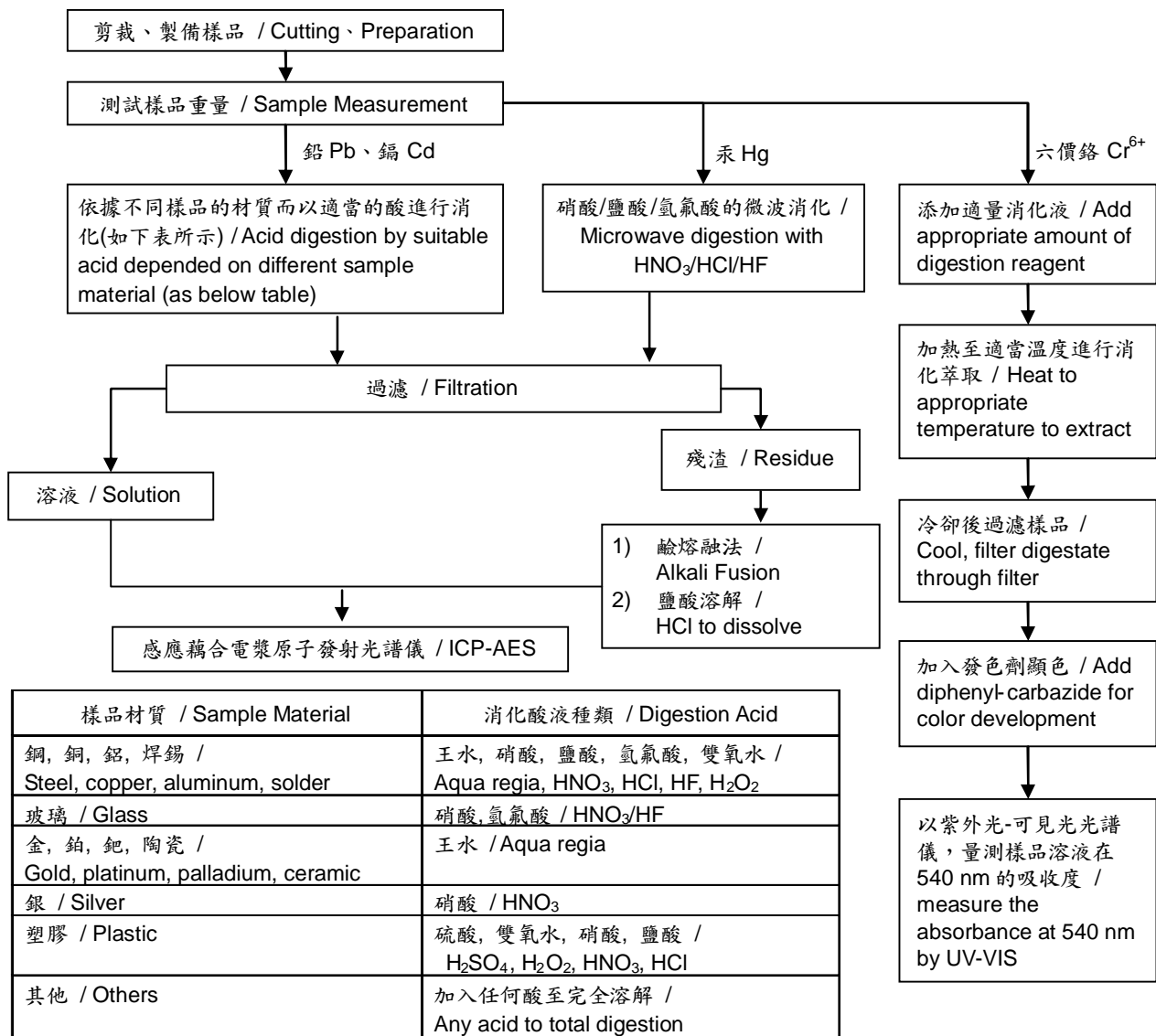


WGJ COMPANY LTD.

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. (Cr⁶⁺ 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



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協祐股份有限公司

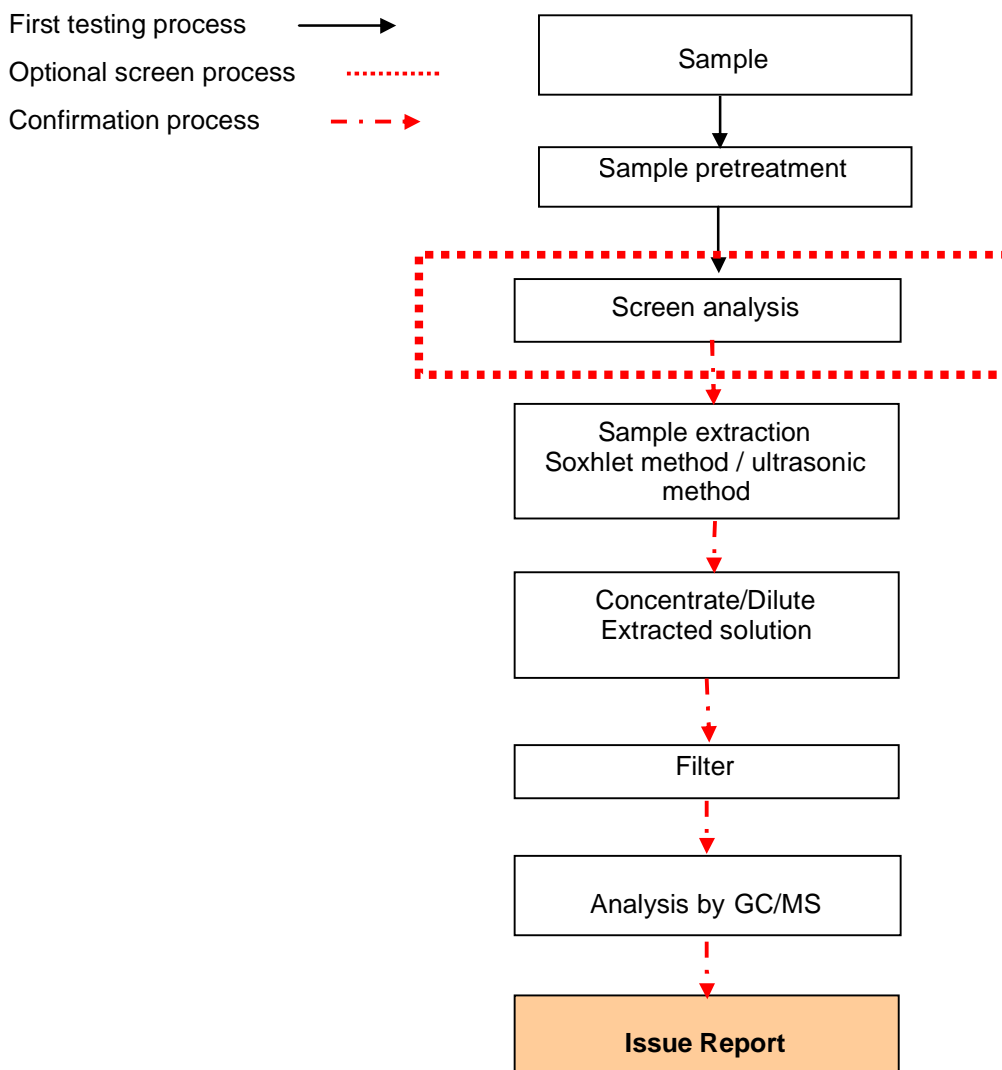
WGJ COMPANY LTD.

桃園縣龜山鄉頂湖五街5號

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



PBB/PBDE analytical FLOW CHART



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



** 報告結尾 **

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：請見下一頁。


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

測試報告

號碼：CE/2007/72824

日期：2007/07/18

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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 ≥ 0.02 mg/kg with 50 cm^2 (sample surface area)

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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.

台北縣樹林市後英街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) : 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) : 請見下一頁。


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

測試報告

號碼：CE/2007/42867

日期：2007/04/19

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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=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 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 cm² 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 ≥ 0.02 mg/kg with 50 cm² (sample surface area)

測試報告

號碼：CE/2007/42867

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至昇股份有限公司

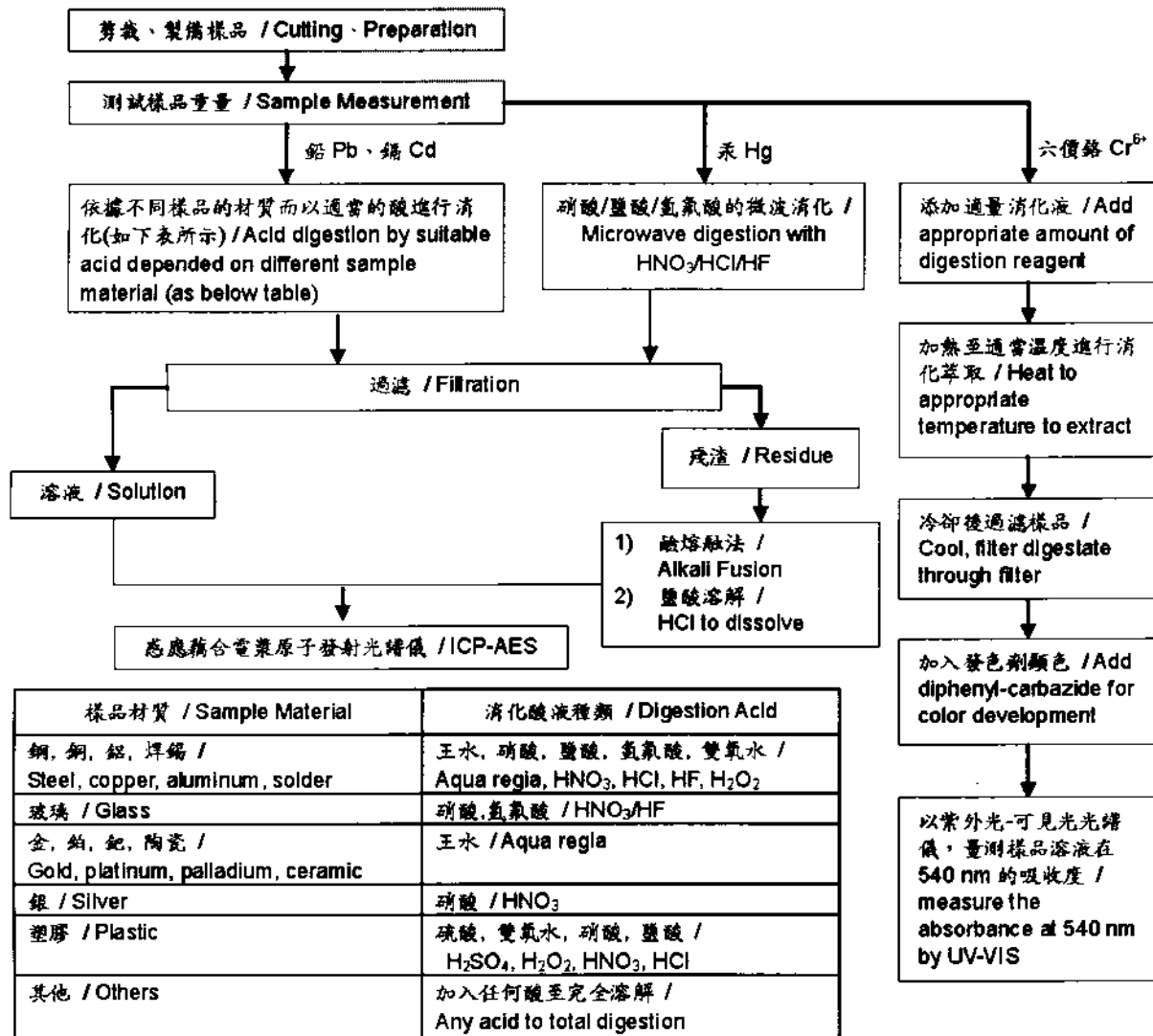
GIH SHENG CO., LTD.

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



- 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)
- 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/2007/42867

日期 : 2007/04/19

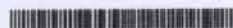
頁數 : 4 of 4

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



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Test Report


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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 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



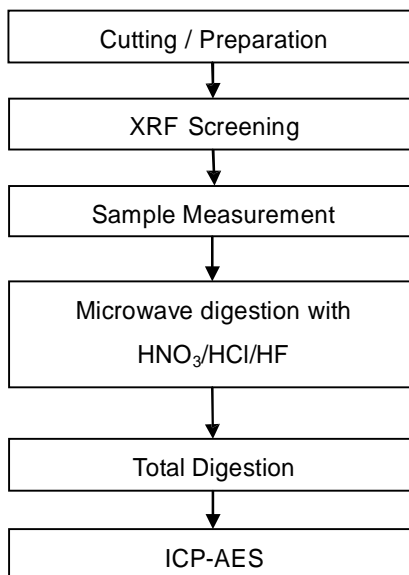
Test Report

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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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** End of Report
**

測試報告

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鈺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

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) : 請見下一頁。


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

測試報告

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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 | |
| 鎘 / 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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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 & 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 cm²
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≥0.02 mg/kg with 50 cm² (sample surface area)

6. "-" = Not Regulated / 無規格值

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號碼：CE/2007/16283

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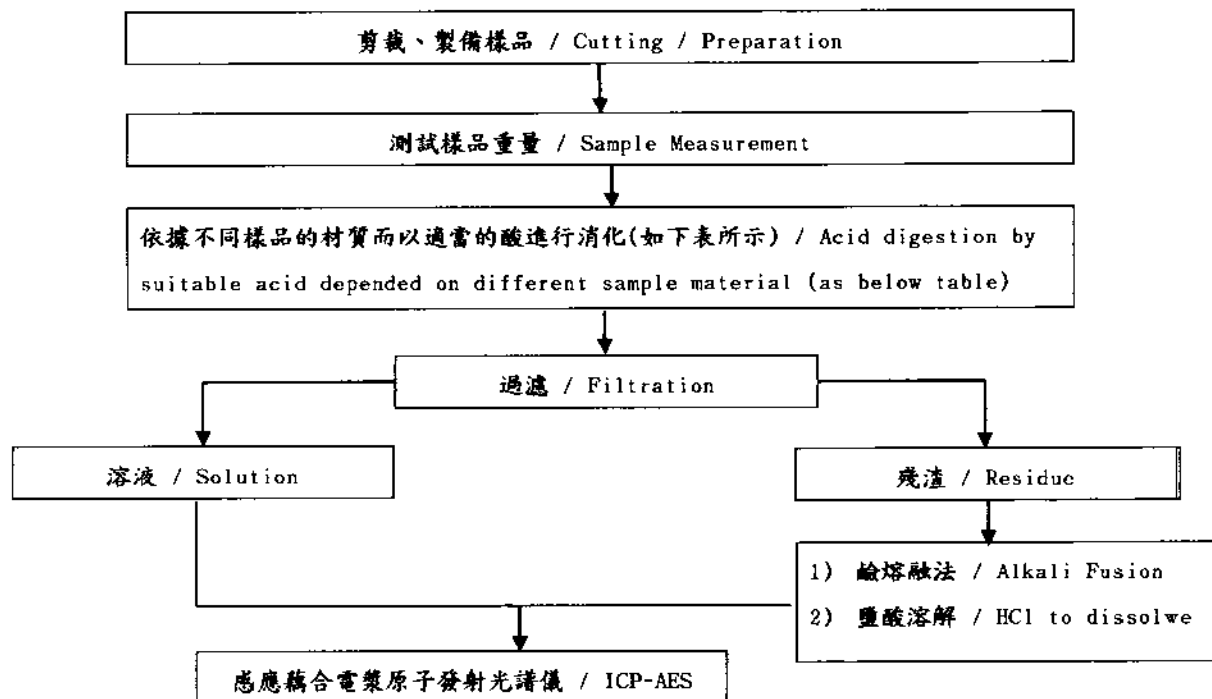
TAIMAO TECHNOLOGY CO., LTD.

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

測試報告

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台北縣五股工業區五權五路18號

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** 報告結尾 **

Test Report

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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 | : | <ol style="list-style-type: none"> (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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TW 4920439

SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

No. 208, Chung Hwa 2nd Road San Min District Kaohsiung, Taiwan. / 高雄市三民區中華二路208號
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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 |
| Sum of PBBs | | 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 |
| Sum of PBDEs (Mono to Nona)(Note 4) | (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 |
| Sum of PBDEs (Mono to Deca) | | 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



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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

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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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TW 4920436

SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

No. 208, Chung Hwa 2nd Road San Min District Kaohsiung, Taiwan. / 高雄市三民區中華二路208號
t (886-7) 323-0920 f (886-7) 315-7484 www.tw.sgs.com

Member of SGS Group



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 INDUSTRIAL 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 : 鍍金藥水
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) : 請見下一頁。


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 INDUSTRIAL 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 | 方法偵測 極限值 (MDL) |
|--|------------------------------|-------------|----------------------|
| | | No.1 | |
| 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 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. | - |

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 INDUSTRIAL 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

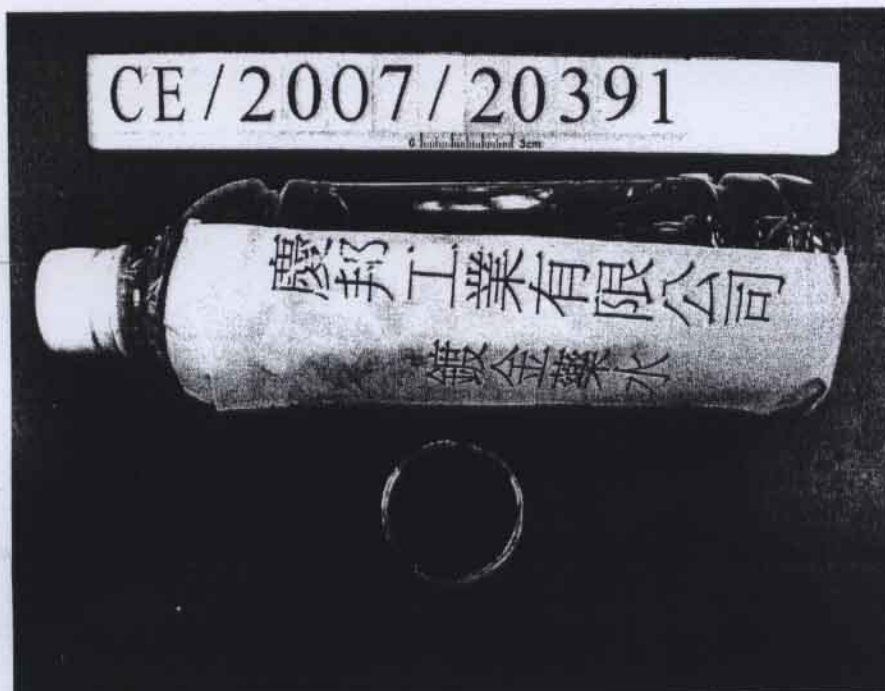
頁數：4 of 4

慶邦工業有限公司

CHING-PANG INDUSTRIAL 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.



** 報告結尾 **

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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.

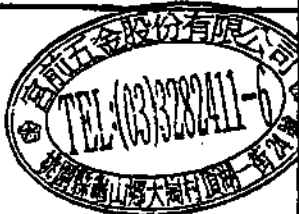
TEL:(03)328-3068

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 | |
| 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 |
| | | | |
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| 備 註 | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>至昇股份有限公司</p> <p>品名規格: 8 H</p> <p>料號: _____</p> <p>日期: _____</p> </div> <div style="float: right; text-align: center;">  </div> | | |

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

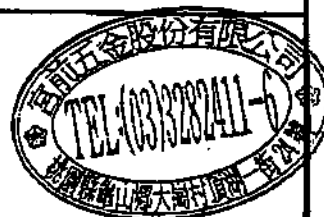
FAX:(03)328-2515

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 | |
| 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 |
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| 備註 | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> 至昇股份有限公司 品名規格: 75 料號: _____ 日期: _____ </div> | | |
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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.

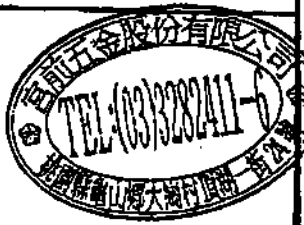
TEL:(03)328-3068

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 | |
| 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 |
| | | | |
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| 備 註 | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>至昇股份有限公司</p> <p>品名規格: 丸 6.5 mm</p> <p>料號: _____</p> <p>日期: _____</p> </div> <div style="float: right; text-align: center;">  </div> | | |

宮前五金股份有限公司

KUON CHEN HARDWARE CO., LTD.

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


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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 | |
| 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 |
| | | | |
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| | | | |
| 備註 | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>至昇股份有限公司</p> <p>品名規格: 丸 5 %</p> <p>料號: _____</p> <p>日期: _____</p> </div> <div style="float: right; text-align: center;">  </div> | | |

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 | 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 |
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| 備註 | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>至昇股份有限公司</p> <p>品名規格: 丸 2 mm</p> <p>料號: _____</p> <p>日期: _____</p> </div> <div style="float: right; text-align: center;">  </div> | | |
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