



Index:

- 1. Reliability Testing**
- 2. Specification**
- 3. S Parameter Test Data**
- 4. Antenna Radiation Pattern**
- 5. Mechanical Drawing**
- 6. MSDS & SGS Report**

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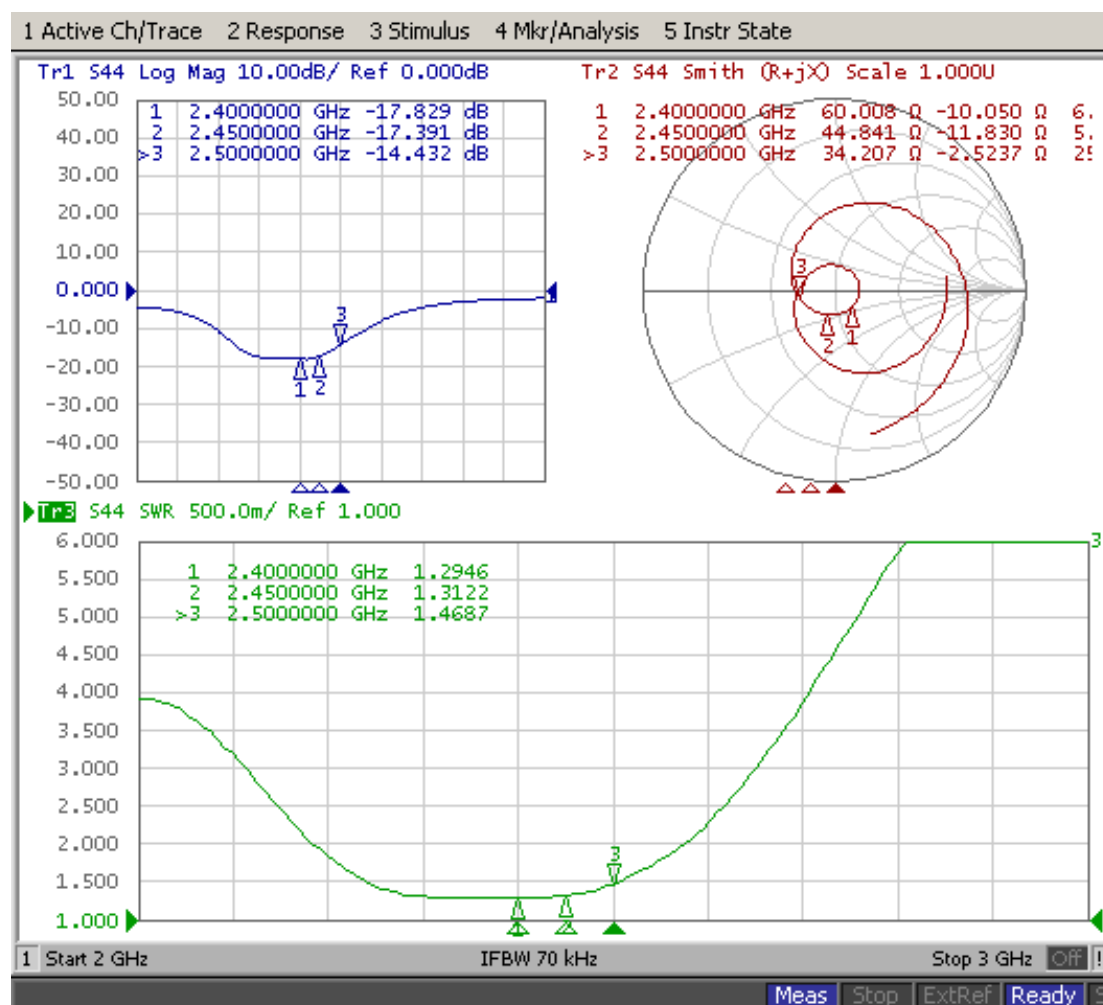
1. Reliability Testing

Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

2. Specification

A. Electrical Characteristics	
S.W.R.	≤ 2.0 @ 2400 ~ 2500 MHz
Antenna Gain	5.0 ± 0.7 dBi (*Depends on Product Mechanical Environment*)
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	50 Ohm SMA Male Reverse
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

3. S Parameter Test data



Product Number: R-AN2400-1901RS
Product Name: 2.4 GHz External Antenna



4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

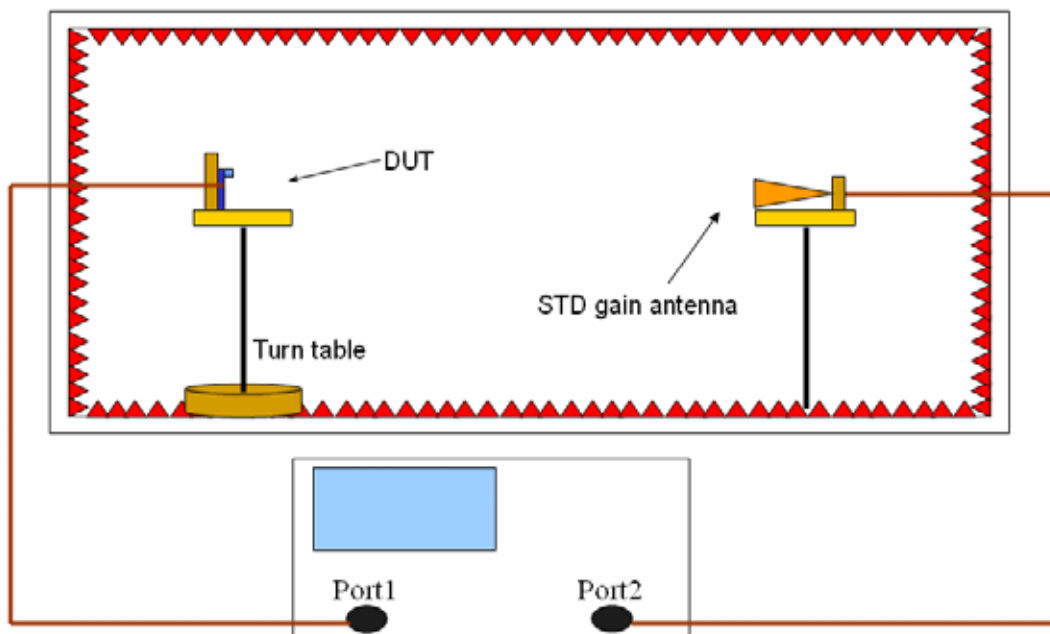
Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna



5. Mechanical Drawing

6. MSDS & SGS Report



Cortec Technology Inc.

广东省东莞市长安镇振安路沙头段咸西工业区

Model : 2.4GHz-5dBi Antenna // 03
Remark : H-Plane // Vertical Polarization
Tested by : CORTEC Antenna 3D Lab // Zhao Yao Rong

Location: Chamber

Date: 2007/5/12

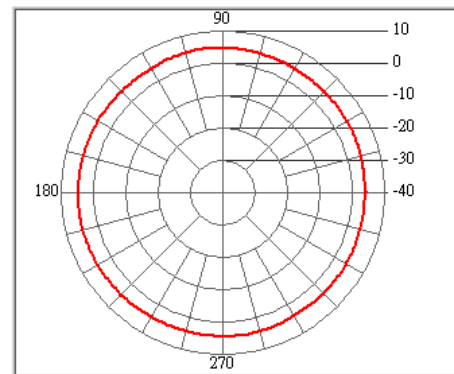
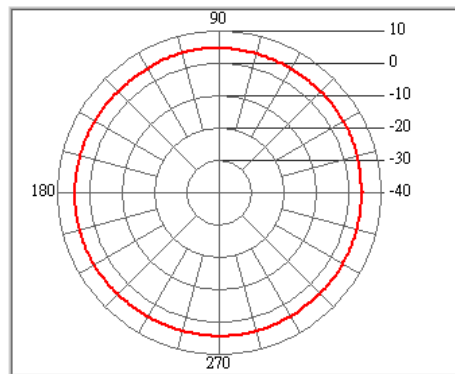
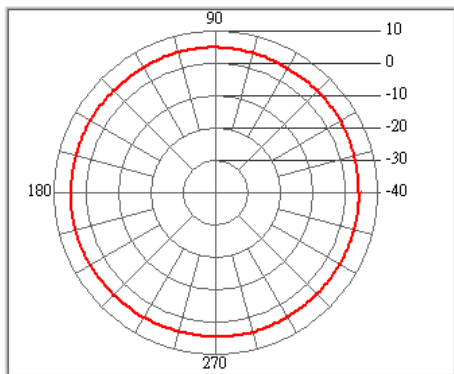
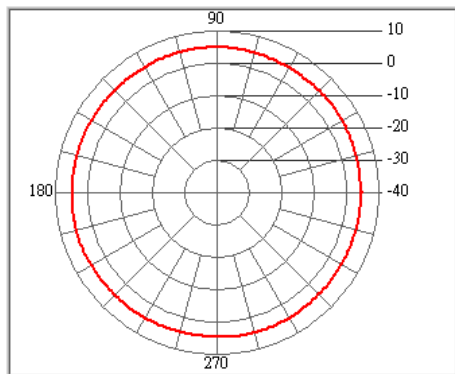
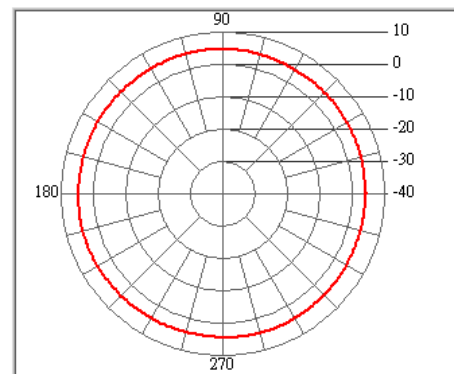
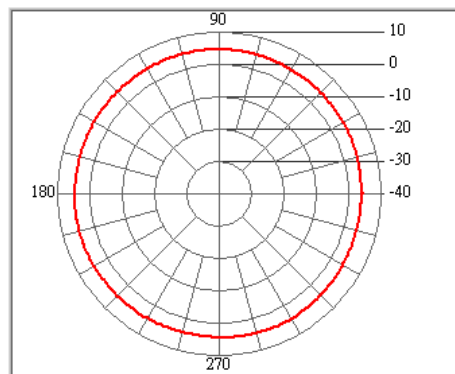
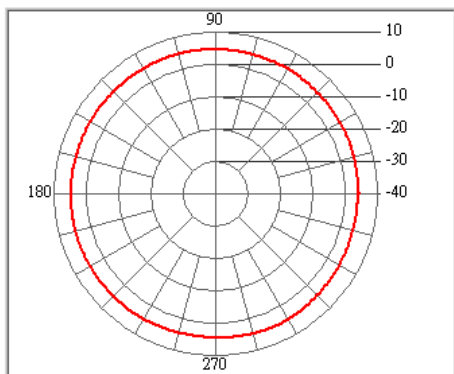
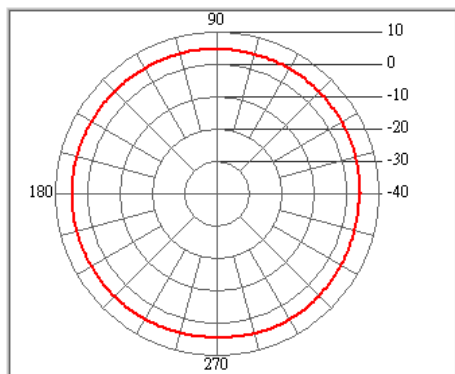
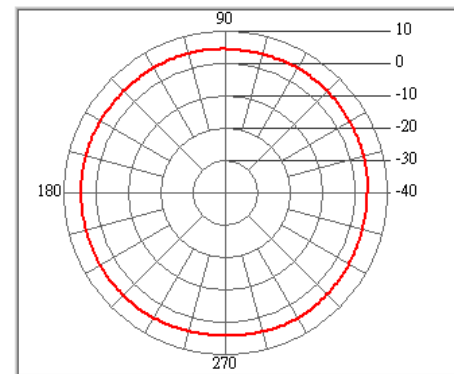
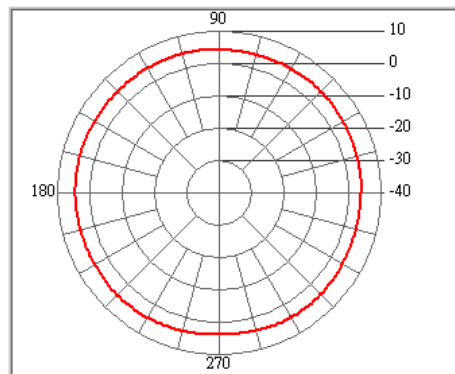
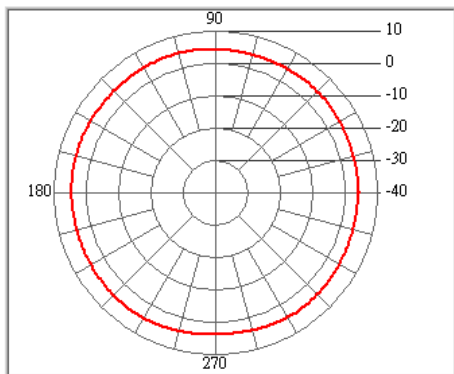
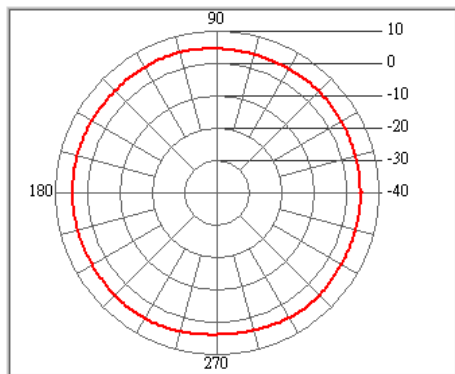
Time: 上午 09:43:22

Temperatur (°C): 22.00

Humidity (%): 55.00

Approved by:

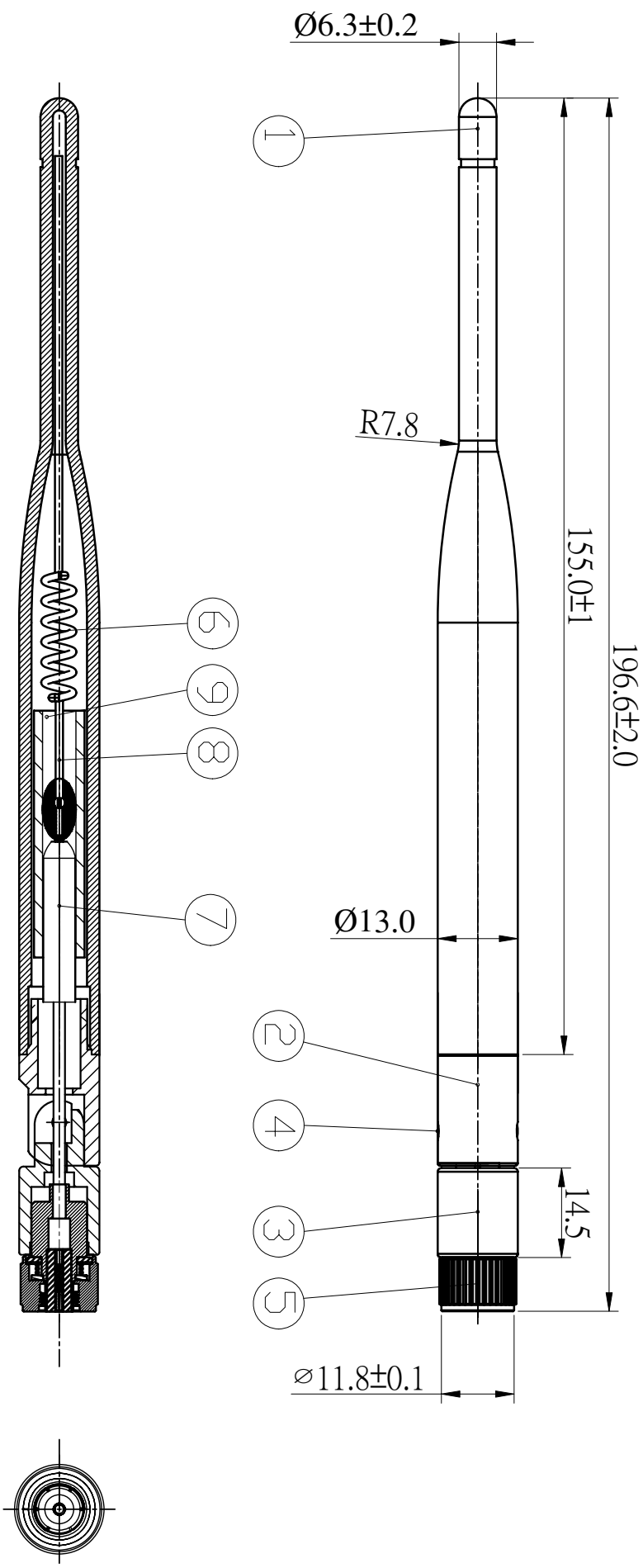
Freq. (MHz)	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	5	4.76	4.61	4.74	4.92	4.83	4.73	4.78	5.02	4.94	4.78	4.85
Peak Degree	117	228	228	228	295	295	203	105	105	105	99	99
AV Gain (dBi)	4.52	4.37	4.3	4.45	4.65	4.56	4.46	4.47	4.72	4.57	4.36	4.38



ROHS

Compatible

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



No.	Part Number	Description	Material	Finished	Qty
9	R-AN1901-04A	Sleeve	ABS	Ø8.20/ L=30.0 mm	1
8	R-RG-178U	Cable	RG178	L=70.0mm	1
7	R-AN94-02S	Tube	Cu	Ø5.20/L=26.0 mm	1
6	R-AN1901-06	Spring	Cu	L=94.0mm	1
5	R-SMA324-CC8MRANT	SMA Male Revers	Cu	Electrodeposition	1
4	R-AN03-514CZ	Rivet	Cu	Electrodeposition	2
3	R-AN03-T01	Body1	PA-6	Black	1
2	R-AN03-T02	Body2	PA-6	Black	1
1	R-AN1901-01	Body	TPE	Black	1

Cortec[®] Cortec Technology Inc.

PART NAME: Antenna 2.4GHz 5dbi TITLE: Antenna 2.4GHz 5dbi

PART NO.: R-AN2400-1901RS DWG NAME: R-AN2400-1901RS.dwg

APPROVED BY	CHECKED BY	DESIGNED BY	UNITS: mm	Tolerance
Grant	Liu kui	Zhang yue xin	SCALE: 1/1	X.X ±0.10
2007/04/06	2007/04/06	2007/04/06	REVISION: B1	X.XX ±0.05
				X° ±1°



SHIYANG (ZHONG SHAN) METAL PRODUCTS CO., LTD

世扬金属制品有限公司

TEST CERTIFICATE

材质证明书



CLIENT 客户		天诚										certificate No. 证明书号		070127-15	
name article 品名		Brass													
LOT NO.	SIZE(MM) STANDARD	OUTW GT (KG)	DESIGNATION	Cu(%)	Pb(%)	Fe(%)	Fe+Sn(%)	Cd(%)	Zn(%)	REMARK					
7916	14.5 φ		JISC3604 JISC3604	57-61 58.92	1.8-3.7 2.986	≤0.5 0.446	≤1.2 0.971	≤0.0075 0.0042	REM REM						

兹证明本表所列产品,均依材料规格制造及试验,并符合规格之要求。
 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED JERE IN MAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

MANAGER: 曾敦毅

PABLE: 李玉奎

DATE: 2007/02/27

THE THREE INDUSTRIAL AREA NAN LANG TOWN ZHONG SHAN CITY
 中国广东省中山市南朗镇第三工业区

TEL: 0760-5214770 FAX: 0760-5214769
 E-Mail: sales@shiyangmetal.com

TPE Datasheet

物性項目 Property	單位 Unit	ASTM 試驗法 Test Method	TPE
比重 Specific Gravity	---	D792	0.88
模具收縮率 Shrinkage	%	D955	0.8-2.5
斷裂拉伸強度 Tensile Strength	Kg/ cm ³	D638	3.1
扭曲強度 Flexural Strength	Kg/ cm ³	D790	---
衝擊強度缺口 23°C Impact Strength	Kg om/om	D256	---
硬度 Hardness	A Shore	---	13
熱變形溫度 0.45 MPa Heat Deflection Temp.	°C	D648	80
熔融指數 Melt Flow Index	G/ min ²	D1238	10
燃燒性 Flammability	---	UL94	HB
<p>Testing Data from</p> <p>東莞市合春塑料有限公司 Tel:86-0769-2774772</p> <p>台灣大雅國際股份有限公司 Tel:886-02-27775232</p>			

Coaxial Cable Datasheet

RG-178 Coaxial Cable Specification		
1. Cable Type	MIL – C – 17 / RG-178	
2. Impedance	50 ± 3 ohm	
3. Inner Conductor	Material	silver-coated copper
	Conductor Numbers	7
	Conductor Size	0.102 mm
	Outer Diameter	0.3 mm
4. Dielectric Layer	Material	FEP
	Color	Clear
	Average Thickness	0.28 mm
	Diameter	0.86 mm
5. Braid (Shielding)	Material	silver-coated copper
	Construction	16-3-0.1 mm
	Coverage	95 %
6. Outer Cover	Material	FEP
	Color	Brown
	Average Thickness	0.25 mm
	Diameter	1.80 ± 0.05 mm
7. V.S.W.R Testing	< 1.3 (DC ~ 6.0 GHz)	
8. Attenuation (dB / 100 meter)	100 MHz	46
	900 MHz	155
	1800 MHz	295
	2400 MHz	340
	5200 MHz	505
	6000 MHz	550
9. Capacitance	97 ± 3 (pF / meter)	
10. Maximum Power	30 dBm	
11. Spark Test	2.0 KV	
12. Rating Temp. and Volt.	200°C / 30V	
13. Conductor Resistance	335 ohm / KM / 20°C max.	
14. Dielectric Resistance	3 G ohm / KM / 20°C min.	

PA-6 Datasheet

納普工程塑料檢測報告單

QR-82401-04

A/1

NO : 06040401

品名	增韌增強尼龍	檢驗標準	QW-824-03	顏色	黑色
型號	PA6-EA	批號	----	數量	2T
檢驗項目	單位	檢驗標準	標準要求	實測數據	
拉伸強度	Mpa	GB/T1040-92	----	35.6	
拉伸模量	Mpa	GB/T1040-92	----	1363	
斷裂伸長率	%	GB/T1040-92	----	63.6	
簡支梁沖擊強度(缺口)	KJ/M2	GB/T1043-93	----	20.0	
簡支梁沖擊強度(非缺口)	KJ/M2	GB/T1043-93	----	NB	
結論: 以上數據均為實測數據					
檢驗員：李興華		日期：2006-05-07		審核：汪文	
				日期：2006-05-07	



Survey Report

INVAX SYSTEM TECHNOLOGY CORP.
CORTEC TECHNOLOGY INC.

No : CS/2006/B0199
Date : 2006/11/23
Page : 1 of 9

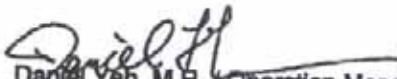


The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : COAXIAL SERIES
Style/Item No : COAXIAL SERIES
Testing Period : 2005/01/28 TO 2006/07/17

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

* This report is combined with 4 copies of test reports which hereby certified by SGS through the verification of each above certification provided by client.*


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

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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



Survey Report

INVAX SYSTEM TECHNOLOGY CORP.
CORTEC TECHNOLOGY INC.

No : CS/2006/B0199

Date : 2006/11/23

Page : 2 of 9



Test Result(s)

PART NAME NO.1 : GRAY METAL(CE/2005/95123)
PART NAME NO.2 : IRON-GRAY METAL(CE/2006/46186)
PART NAME NO.3 : MIXED ALL PARTS(MULTILAYER FERRITE CHIP BEADS, MULTILAYER FERRITE CHIP INDUCTORS)(CE/2006/26763)
PART NAME NO.4 : MIXED ALL PARTS(MULTILAYER FERRITE CHIP BEADS, HIGH CURRENT FERRITE CHIP BEADS, BEAD ARRAY, MULTILAYER FERRITE COMMON MODE CHOKE)(CE/2006/22877)
PART NAME NO.5 : MIXED ALL PARTS(聚脂,聚胺基甲酸酯(2芯束絞漆包銅線))(CE/2006/57221)
PART NAME NO.6 : SILVER COLORED SOLDER(CE/2006/25828)
PART NAME NO.7 : MIXED ALL PARTS(IC)(CE/2006/26941)
PART NAME NO.8 : MIXED ALL PARTS(TOSHIBA SEMICONDUCTOR)(CE/2005/B6346A)
PART NAME NO.9 : MIXED ALL PARTS(BODY)(CE/2005/60638A NO.1)
PART NAME NO.10 : SILVER COLORED METAL PIN(CE/2005/60638A NO.2)
PART NAME NO.11 : BLACK EPOXY(CE/2005/91990B NO.3)
PART NAME NO.12 : SILVER COLORED METAL(CE/2006/20960A)
PART NAME NO.13 : MLCC(KA/2006/60498)
PART NAME NO.14 : THICK FILM CHIP RESISTORS & CHIP ARRAY(KA/2006/62695)
PART NAME NO.15 : SILVER COLORED METAL(CE/2006/31989A NO.1)
PART NAME NO.16 : SILVER COLORED PLATING(CE/2006/31989A NO.2)
PART NAME NO.17 : PET FILM (MYLAR)(KA/2005/B0923A-01)
PART NAME NO.18 : MIXED ALL PARTS(SYLGARD 170 A & B SILICONE ELASTOMER)(CE/2005/87166)
PART NAME NO.19 : COPPER/SILVER COLORED METAL(CE/2005/A2849)
PART NAME NO.20 : BLACK PASTE(CE/2006/21870)
PART NAME NO.21 : TRANSPARENT LIQUID(CE/2006/21871)
PART NAME NO.22 : WHITE INK(CE/2005/A0062)
PART NAME NO.23 : GREEN PCB(SH6006519/CHEM)
PART NAME NO.24 : BLACK PELLETS(CE/2005/C2222)
PART NAME NO.25 : COPPER COLORED METAL SHEET(C5191 (PBP))(CE/2006/30709)
PART NAME NO.26 : YELLOW TAPE(CE/2005/15543)
PART NAME NO.27 : LT. YELLOW LIQUID(CE/2006/21993)
PART NAME NO.28 : GOLDEN COLORED METAL(SZR0607121195405C)(CTI)
PART NAME NO.29 : GREEN LIQUID(GZ0603035698/CHEM)
PART NAME NO.30 : WHITE PLASTIC BAR(SH6060096/CHEM)

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Survey Report

INVAX SYSTEM TECHNOLOGY CORP.
CORTEC TECHNOLOGY INC.

No : CS/2006/B0199
Date : 2006/11/23
Page : 3 of 9



Test Item(s):	Unit	Method	MDL	Result					
				NO.1	NO.2	NO.3	NO.4	NO.5	
Monobromobiphenyl	ppm	With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	---	---	N.D.	---	N.D.	
Dibromobiphenyl	ppm		5	---	---	N.D.	---	N.D.	
Tribromobiphenyl	ppm		5	---	---	N.D.	---	N.D.	
Tetrabromobiphenyl	ppm		5	---	---	N.D.	---	N.D.	
Pentabromobiphenyl	ppm		5	---	---	N.D.	---	N.D.	
Hexabromobiphenyl	ppm		5	---	---	N.D.	---	N.D.	
Heptabromobiphenyl	ppm		5	---	---	N.D.	---	N.D.	
Octabromobiphenyl	ppm		5	---	---	N.D.	---	N.D.	
Nonabromobiphenyl	ppm		5	---	---	N.D.	---	N.D.	
Decabromobiphenyl	ppm		5	---	---	N.D.	---	N.D.	
Total PBBs	ppm		-	---	---	N.D.	---	N.D.	
Monobromobiphenyl ether	ppm		With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	---	---	N.D.	---	N.D.
Dibromobiphenyl ether	ppm			5	---	---	N.D.	---	N.D.
Tribromobiphenyl ether	ppm			5	---	---	N.D.	---	N.D.
Tetrabromobiphenyl ether	ppm	5		---	---	N.D.	---	N.D.	
Pentabromobiphenyl ether	ppm	5		---	---	N.D.	---	N.D.	
Hexabromobiphenyl ether	ppm	5		---	---	N.D.	---	N.D.	
Heptabromobiphenyl ether	ppm	5		---	---	N.D.	---	N.D.	
Octabromobiphenyl ether	ppm	5		---	---	N.D.	---	N.D.	
Nonabromobiphenyl ether	ppm	5		---	---	N.D.	---	N.D.	
Decabromobiphenyl ether	ppm	5		---	---	N.D.	---	N.D.	
Total PBBEs(PBDEs)	ppm	-	---	---	N.D.	---	N.D.		
Total of Mono to Nona(Note 4)	ppm	-	---	---	N.D.	---	N.D.		

Test Item(s):	Unit	Method	MDL	Result				
				NO.1	NO.2	NO.3	NO.4	NO.5
Hexavalent Chromium (CrVI)	ppm	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UVM/IS Spectrometry.	2	N.D.	N.D.	N.D.	---	N.D.
Cadmium (Cd)	ppm	With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.	2	N.D.	N.D.	N.D.	---	N.D.
Mercury (Hg)	ppm	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	N.D.	N.D.	N.D.	---	N.D.
Lead (Pb)	ppm	With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	N.D.	89.6	---	N.D.	N.D.

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Survey Report

INVAX SYSTEM TECHNOLOGY CORP.
CORTEC TECHNOLOGY INC.

No : CS/2006/B0199
Date : 2006/11/23
Page : 4 of 9



Test Item(s):	Unit	Method	MDL	Result					
				NO.6	NO.7	NO.8	NO.9	NO.10	
Monobromobiphenyl	ppm	With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	N.D.	N.D.	N.D.	N.D.	---	
Dibromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	---	
Tribromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	---	
Tetrabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	---	
Pentabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	---	
Hexabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	---	
Heptabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	---	
Octabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	---	
Nonabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	---	
Decabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	---	
Total PBBs	ppm		5	N.D.	N.D.	N.D.	N.D.	---	
Monobromobiphenyl ether	ppm		With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	-	N.D.	N.D.	N.D.	N.D.	---
Dibromobiphenyl ether	ppm			5	N.D.	N.D.	N.D.	N.D.	---
Tribromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	---	
Tetrabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	---	
Pentabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	---	
Hexabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	---	
Heptabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	---	
Octabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	---	
Nonabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	---	
Decabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	---	
Total PBBEs(PBDEs)	ppm	5		N.D.	N.D.	N.D.	N.D.	---	
Total of Mono to Nona(Note 4)	ppm	-		N.D.	N.D.	N.D.	N.D.	---	

Test Item(s):	Unit	Method	MDL	Result				
				NO.6	NO.7	NO.8	NO.9	NO.10
Hexavalent Chromium (CrVI)	ppm	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	ppm	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	ppm	With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	71.6	N.D.	11.0	---	24.8

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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



Survey Report

INVAX SYSTEM TECHNOLOGY CORP.
CORTEC TECHNOLOGY INC.

No : CS/2006/B0199

Date : 2006/11/23

Page : 5 of 9



Test Item(s):	Unit	Method	MDL	Result					
				NO.11	NO.12	NO.13	NO.14	NO.15	
Monobromobiphenyl	ppm	With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	---	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Nonabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Decabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Total PBBs	ppm		-	---	N.D.	N.D.	N.D.	N.D.	
Monobromobiphenyl ether	ppm		With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	---	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl ether	ppm			5	---	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Nonabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Decabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Total PBBEs(PBDEs)	ppm	-	---	N.D.	N.D.	N.D.	N.D.		
Total of Mono to Nona(Note 4)	ppm	-	---	N.D.	N.D.	N.D.	N.D.		

Test Item(s):	Unit	Method	MDL	Result				
				NO.11	NO.12	NO.13	NO.14	NO.15
Hexavalent Chromium (CrVI)	ppm	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UVM/IS Spectrometry.	2	---	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.	2	---	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	ppm	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	---	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	ppm	With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	26.4	N.D.	N.D.	254.0	N.D.

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Survey Report

INVAX SYSTEM TECHNOLOGY CORP.
CORTEC TECHNOLOGY INC.

No : CS/2006/B0199

Date : 2006/11/23

Page : 6 of 9



Test Item(s):	Unit	Method	MDL	Result					
				NO.16	NO.17	NO.18	NO.19	NO.20	
Monobromobiphenyl	ppm	With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	---	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Nonabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Decabromobiphenyl	ppm		5	---	N.D.	N.D.	N.D.	N.D.	
Total PBBs	ppm		-	---	N.D.	N.D.	N.D.	N.D.	
Monobromobiphenyl ether	ppm		With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	---	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl ether	ppm			5	---	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Nonabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Decabromobiphenyl ether	ppm	5		---	N.D.	N.D.	N.D.	N.D.	
Total PBBEs(PBDEs)	ppm	-	---	N.D.	N.D.	N.D.	N.D.		
Total of Mono to Nona(Note 4)	ppm	-	---	N.D.	N.D.	N.D.	N.D.		

Test Item(s):	Unit	Method	MDL	Result				
				NO.16	NO.17	NO.18	NO.19	NO.20
Hexavalent Chromium (CrVI)	ppm	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.	2	---	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.	2	---	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	ppm	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	---	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	ppm	With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	---	N.D.	N.D.	21.5	N.D.
Hexavalent Chromium (CrVI)	**	With reference to IEC 62321, Ed.1 111/54/CDV. Analysis was performed by UV-VIS	0.02mg/kg with 50 cm ² surface area	Negative	---	---	---	---

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Survey Report

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CORTEC TECHNOLOGY INC.

No : CS/2006/B0199

Date : 2006/11/23

Page : 7 of 9



Test Item(s):	Unit	Method	MDL	Result				
				NO.21	NO.22	NO.23	NO.24	NO.25
Monobromobiphenyl	ppm	With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromobiphenyl	ppm		5	N.D.	N.D.	N.D.	N.D.	N.D.
Total PBBs	ppm		-	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromobiphenyl ether	ppm		With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	N.D.
Decabromobiphenyl ether	ppm	5		N.D.	N.D.	N.D.	N.D.	N.D.
Total PBBEs(PBDEs)	ppm	-		N.D.	N.D.	N.D.	N.D.	N.D.
Total of Mono to Nona(Note 4)	ppm	-		N.D.	N.D.	N.D.	N.D.	N.D.

Test Item(s):	Unit	Method	MDL	Result				
				NO.21	NO.22	NO.23	NO.24	NO.25
Hexavalent Chromium (CrVI)	ppm	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UVM/IS Spectrometry.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	ppm	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	ppm	With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	N.D.	N.D.	37.0	N.D.	17.6

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Survey Report

INVAX SYSTEM TECHNOLOGY CORP.
CORTEC TECHNOLOGY INC.

No : CS/2006/B0199

Date : 2006/11/23

Page : 8 of 9



Test Item(s):	Unit	Method	MDL	Result					
				NO.26	NO.27	NO.28	NO.29	NO.30	
Monobromobiphenyl	ppm	With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	N.D.	N.D.	---	N.D.	N.D.	
Dibromobiphenyl	ppm		5	N.D.	N.D.	---	N.D.	N.D.	
Tribromobiphenyl	ppm		5	N.D.	N.D.	---	N.D.	N.D.	
Tetrabromobiphenyl	ppm		5	N.D.	N.D.	---	N.D.	N.D.	
Pentabromobiphenyl	ppm		5	N.D.	N.D.	---	N.D.	N.D.	
Hexabromobiphenyl	ppm		5	N.D.	N.D.	---	N.D.	N.D.	
Heptabromobiphenyl	ppm		5	N.D.	N.D.	---	N.D.	N.D.	
Octabromobiphenyl	ppm		5	N.D.	N.D.	---	N.D.	N.D.	
Nonabromobiphenyl	ppm		5	N.D.	N.D.	---	N.D.	N.D.	
Decabromobiphenyl	ppm		5	N.D.	N.D.	---	N.D.	N.D.	
Total PBBs	ppm		-	N.D.	N.D.	---	N.D.	N.D.	
Monobromobiphenyl ether	ppm		With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	N.D.	N.D.	---	N.D.	N.D.
Dibromobiphenyl ether	ppm			5	N.D.	N.D.	---	N.D.	N.D.
Tribromobiphenyl ether	ppm	5		N.D.	N.D.	---	N.D.	N.D.	
Tetrabromobiphenyl ether	ppm	5		N.D.	N.D.	---	N.D.	N.D.	
Pentabromobiphenyl ether	ppm	5		N.D.	N.D.	---	N.D.	N.D.	
Hexabromobiphenyl ether	ppm	5		N.D.	N.D.	---	N.D.	N.D.	
Heptabromobiphenyl ether	ppm	5		N.D.	N.D.	---	N.D.	N.D.	
Octabromobiphenyl ether	ppm	5		N.D.	N.D.	---	N.D.	N.D.	
Nonabromobiphenyl ether	ppm	5		N.D.	N.D.	---	N.D.	N.D.	
Decabromobiphenyl ether	ppm	5		N.D.	N.D.	---	N.D.	N.D.	
Total PBBEs(PBDEs)	ppm	-		N.D.	N.D.	---	N.D.	N.D.	
Total of Mono to Nona(Note 4)	ppm	-		N.D.	N.D.	---	N.D.	N.D.	

Test Item(s):	Unit	Method	MDL	Result				
				NO.26	NO.27	NO.28	NO.29	NO.30
Hexavalent Chromium (CrVI)	ppm	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UVM/IS Spectrometry.	2	N.D.	N.D.	N.D.	---	N.D.
Cadmium (Cd)	ppm	With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.	2	N.D.	N.D.	49.0	N.D.	N.D.
Mercury (Hg)	ppm	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	ppm	With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	N.D.	N.D.	---	N.D.	N.D.

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Survey Report

INVAX SYSTEM TECHNOLOGY CORP.
CORTEC TECHNOLOGY INC.

No : CS/2006/B0199
Date : 2006/11/23
Page : 9 of 9



Test Item(s):	Unit	Method	MDL	Result				
				NO.26	NO.27	NO.28	NO.29	NO.30
Lead (Pb)	ppm	With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.	2	---	---	36780.0	---	---
Hexavalent Chromium (CrVI)	ppm	With reference to IEC 62321, Ed.1 111/54/CDV. Analysis was performed by UV-VIS	2	---	---	---	N.D.	---

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
 5. Spot-test:
 - Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
 - (The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)
 - Boiling-water-extraction:
 - Negative = Absence of CrVI coating
 - Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
 6. "—" = Not Conducted
 7. "- " = Not Regulated
 8. "** = Qualitative analysis (No Unit)

** End of Report **

測試報告

號碼：CE/2006/65858B 日期：2007/04/19 頁數：1 of 10

英碩科技股份有限公司 / INVAX SYSTEM TECHNOLOGY CORP.
康捷電子有限公司 / CORTEC TECHNOLOGY INC.
4F. NO. 815, CHUNG HSAIO EAST RD., SEC. 5, TAIPEI, TAIWAN,
R. O. C.

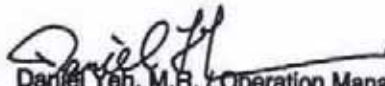


XIANXI INDUSTRIAL, SHATOU ADMINISTRATION ZONE, CHANGAN
TOWN, DONGGUAN GUANGDONG PROVINCE, CHINA

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) : ANTENNA
樣品型號(Style/Item No.) : EM SERIES ; IM SERIES ; NB SERIES ; AN SERIES
收件日期(Sample Receiving Date) : 2006/06/19
測試期間(Testing Period) : 2006/06/19 TO 2006/06/23

=====
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 : (1) 參考BS EN 1122方法B:2001, 用感應耦合電漿原子發射光譜儀檢測鎘含
量。 / With reference to BS EN 1122:2001, Method B for Cadmium
Content. Analysis was performed by ICP-AES.
(2) 參考US EPA 3050B方法, 用感應耦合電漿原子發射光譜儀檢測鉛含量。
 / With reference to US EPA Method 3050B for Lead Content.
Analysis was performed by ICP-AES.
(3) 參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測汞含量。 /
With reference to US EPA Method 3052 for Mercury Content.
Analysis was performed by ICP-AES.
(4) 針對非金屬材質之樣品, 參考US EPA 3060A方法, 用UV-VIS (US EPA
7196A)檢測六價鉻含量。 / With reference to US EPA Method 3060A &
7196A for Hexavalent Chromium for non-metallic samples.
Analysis was performed by UV/Vis Spectrometry.
(5) 參考US EPA 3060A方法, 用UV-VIS (US EPA 7196A)檢測六價鉻含量。 /
With reference to US EPA Method 3060A & 7196A for Hexavalent
Chromium. Analysis was performed by UV/Vis Spectrometry.
(6) 參考US EPA 3540C方法, 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯
醚含量。 / With reference to US EPA 3540C for PBBs/PBDEs
Content. Analysis was performed by GC/MS.
測試結果 / Test Result(s) : 請見下一頁。


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

測試報告

號碼：CE/2006/65858B

日期：2007/04/19

頁數：2 of 10

英碩科技股份有限公司 / INVAX SYSTEM TECHNOLOGY CORP.

康捷電子有限公司 / CORTEC TECHNOLOGY INC.

4F, NO. 815, CHUNG HSAIO EAST RD., SEC. 5, TAIPEI, TAIWAN,
R. O. C.

XIANXI INDUSTRIAL, SHATOU ADMINISTRATION ZONE, CHANGAN
TOWN, DONGGUAN GUANGDONG PROVINCE, CHINA



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	No.2	No.3	No.4	No.5	
鎘 / Cadmium (Cd)	(1)	n.d.	23.6	17.4	20.8	20.3	2
鉛 / Lead (Pb)	(2)	6.4	12.8	16084.3	27158.1	32260.4	2
汞 / Mercury (Hg)	(3)	n.d.	n.d.	n.d.	n.d.	n.d.	2
六價鉻 / Hexavalent Chromium Cr(VI)	(4)	n.d.	n.d.	---	---	---	2
	(5)	---	---	3.04	n.d.	n.d.	2
多溴聯苯總和 / Sum of PBBs	(6)	n.d.	n.d.	---	---	---	-
一溴聯苯 / Monobromobiphenyl		n.d.	n.d.	---	---	---	5
二溴聯苯 / Dibromobiphenyl		n.d.	n.d.	---	---	---	5
三溴聯苯 / Tribromobiphenyl		n.d.	n.d.	---	---	---	5
四溴聯苯 / Tetrabromobiphenyl		n.d.	n.d.	---	---	---	5
五溴聯苯 / Pentabromobiphenyl		n.d.	n.d.	---	---	---	5
六溴聯苯 / Hexabromobiphenyl		n.d.	n.d.	---	---	---	5
七溴聯苯 / Heptabromobiphenyl		n.d.	n.d.	---	---	---	5
八溴聯苯 / Octabromobiphenyl		n.d.	n.d.	---	---	---	5
九溴聯苯 / Nonabromobiphenyl		n.d.	n.d.	---	---	---	5
十溴聯苯 / Decabromobiphenyl		n.d.	n.d.	---	---	---	5
多溴聯苯醚總和 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	n.d.	---	---	---	-
一溴聯苯醚 / Monobromobiphenyl ether		n.d.	n.d.	---	---	---	5
二溴聯苯醚 / Dibromobiphenyl ether		n.d.	n.d.	---	---	---	5
三溴聯苯醚 / Tribromobiphenyl ether		n.d.	n.d.	---	---	---	5
四溴聯苯醚 / Tetrabromobiphenyl ether		n.d.	n.d.	---	---	---	5
五溴聯苯醚 / Pentabromobiphenyl ether		n.d.	n.d.	---	---	---	5
六溴聯苯醚 / Hexabromobiphenyl ether		n.d.	n.d.	---	---	---	5
七溴聯苯醚 / Heptabromobiphenyl ether		n.d.	n.d.	---	---	---	5
八溴聯苯醚 / Octabromobiphenyl ether		n.d.	n.d.	---	---	---	5
九溴聯苯醚 / Nonabromobiphenyl ether	n.d.	n.d.	---	---	---	5	
十溴聯苯醚 / Decabromobiphenyl ether	n.d.	n.d.	---	---	---	5	
多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca)	n.d.	n.d.	---	---	---	-	

測試報告

號碼：CE/2006/65858B

日期：2007/04/19

頁數：3 of 10

英碩科技股份有限公司 / INVAX SYSTEM TECHNOLOGY CORP.

康捷電子有限公司 / CORTEC TECHNOLOGY INC.

4F, NO. 815, CHUNG HSAIO EAST RD., SEC. 5, TAIPEI, TAIWAN,

R. O. C.

XIANXI INDUSTRIAL, SHATOU ADMINISTRATION ZONE, CHANGAN

TOWN, DONGGUAN GUANGDONG PROVINCE, CHINA



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.6	No.7	No.8	No.9	No.10	
鎘 / Cadmium (Cd)	(1)	n.d.	2.1	n.d.	n.d.	20.5	2
鉛 / Lead (Pb)	(2)	70.5	164.5	93.9	11.7	26776.0	2
汞 / Mercury (Hg)	(3)	n.d.	n.d.	n.d.	n.d.	n.d.	2
六價鉻 / Hexavalent Chromium Cr(VI)	(4)	n.d.	---	n.d.	n.d.	---	2
	(5)	---	n.d.	---	---	n.d.	2
多溴聯苯總和 / Sum of PBBs	(6)	n.d.	---	n.d.	n.d.	---	-
一溴聯苯 / Monobromobiphenyl		n.d.	---	n.d.	n.d.	---	5
二溴聯苯 / Dibromobiphenyl		n.d.	---	n.d.	n.d.	---	5
三溴聯苯 / Tribromobiphenyl		n.d.	---	n.d.	n.d.	---	5
四溴聯苯 / Tetrabromobiphenyl		n.d.	---	n.d.	n.d.	---	5
五溴聯苯 / Pentabromobiphenyl		n.d.	---	n.d.	n.d.	---	5
六溴聯苯 / Hexabromobiphenyl		n.d.	---	n.d.	n.d.	---	5
七溴聯苯 / Heptabromobiphenyl		n.d.	---	n.d.	n.d.	---	5
八溴聯苯 / Octabromobiphenyl		n.d.	---	n.d.	n.d.	---	5
九溴聯苯 / Nonabromobiphenyl		n.d.	---	n.d.	n.d.	---	5
十溴聯苯 / Decabromobiphenyl		n.d.	---	n.d.	n.d.	---	5
多溴聯苯醚總和 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	---	n.d.	n.d.	---	-
一溴聯苯醚 / Monobromobiphenyl ether		n.d.	---	n.d.	n.d.	---	5
二溴聯苯醚 / Dibromobiphenyl ether		n.d.	---	n.d.	n.d.	---	5
三溴聯苯醚 / Tribromobiphenyl ether		n.d.	---	n.d.	n.d.	---	5
四溴聯苯醚 / Tetrabromobiphenyl ether		n.d.	---	n.d.	n.d.	---	5
五溴聯苯醚 / Pentabromobiphenyl ether		n.d.	---	n.d.	n.d.	---	5
六溴聯苯醚 / Hexabromobiphenyl ether		n.d.	---	n.d.	n.d.	---	5
七溴聯苯醚 / Heptabromobiphenyl ether		n.d.	---	n.d.	n.d.	---	5
八溴聯苯醚 / Octabromobiphenyl ether		n.d.	---	n.d.	n.d.	---	5
九溴聯苯醚 / Nonabromobiphenyl ether	n.d.	---	n.d.	n.d.	---	5	
十溴聯苯醚 / Decabromobiphenyl ether	n.d.	---	n.d.	n.d.	---	5	
多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca)	n.d.	---	n.d.	n.d.	---	-	

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測試報告

號碼：CE/2006/65858B

日期：2007/04/19

頁數：4 of 10

英碩科技股份有限公司 / INVAX SYSTEM TECHNOLOGY CORP.

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4F, NO. 815, CHUNG HSAIO EAST RD., SEC. 5, TAIPEI, TAIWAN,
R. O. C.XIANXI INDUSTRIAL, SHATOU ADMINISTRATION ZONE, CHANGAN
TOWN, DONGGUAN GUANGDONG PROVINCE, CHINA

測試部位描述 / TEST PART DESCRIPTION:

- NO.1 : 黑色塑膠筒 / BLACK PLASTIC
NO.2 : 黑色塑膠轉軸 / BLACK PLASTIC
NO.3 : 黑色金屬(卯釘) / BLACK METAL (RIVET)
NO.4 : 黑色金屬接頭 / BLACK METAL CONNECT
NO.5 : 銀色金屬接頭 / SILVER COLORED METAL CONNECT
NO.6 : 混濁褐色塑膠外被及銀色金屬線及白色塑膠 / MIXED BROWN PLASTIC WITH SILVER COLORED METAL WIRE WITH WHITE PLASTIC
NO.7 : 銅色金屬管 / COPPER COLORED METAL
NO.8 : 白色塑膠外被及銀色金屬線 / WHITE PLASTIC JACKET WITH SILVER COLORED METAL WIRE
NO.9 : 白色塑膠 / WHITE PLASTIC
NO.10 : 金色/銀色金屬 / GOLDEN COLORED/SILVER COLORED MEATL

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

6. "---" = Not Conducted / 未測項目

測試報告

號碼：CE/2006/65858B

日期：2007/04/19

頁數：5 of 10

英碩科技股份有限公司 / INVAX SYSTEM TECHNOLOGY CORP.

康捷電子有限公司 / CORTEC TECHNOLOGY INC.

4F. NO. 815, CHUNG HSAIO EAST RD., SEC. 5, TAIPEI, TAIWAN,
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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

測試報告

號碼：CE/2006/65858B

日期：2007/04/19

頁數：6 of 10

英碩科技股份有限公司 / INVAX SYSTEM TECHNOLOGY CORP.

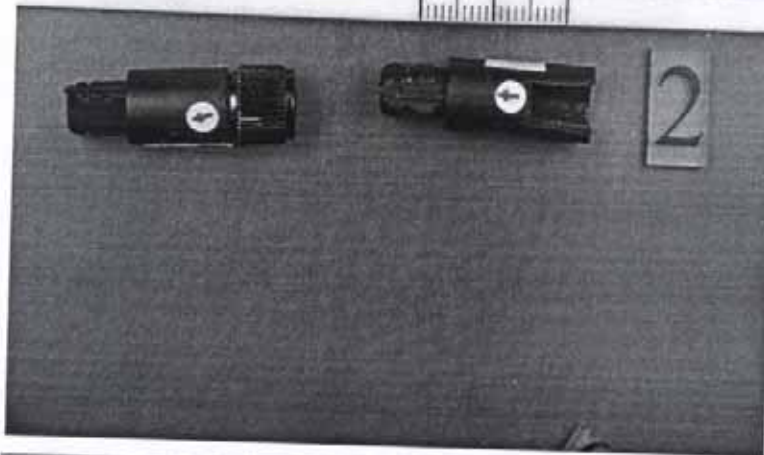
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R. O. C.

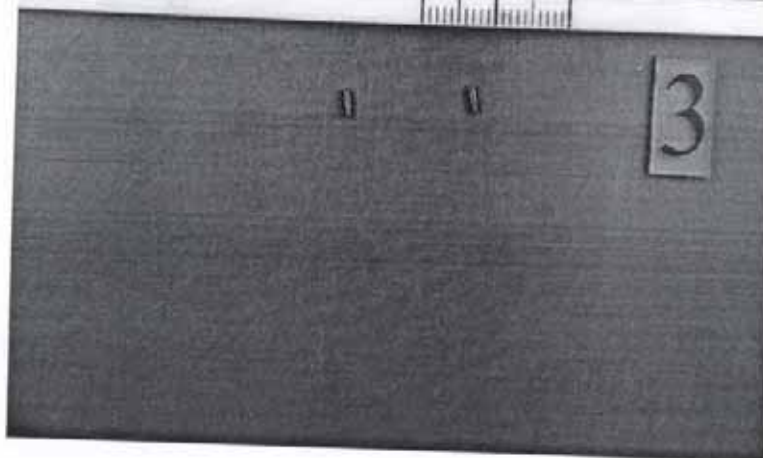
XIANXI INDUSTRIAL, SHATOU ADMINISTRATION ZONE, CHANGAN
TOWN, DONGGUAN GUANGDONG PROVINCE, CHINA



CE / 2006 / 65858



CE / 2006 / 65858



測試報告

號碼：CE/2006/65858B

日期：2007/04/19

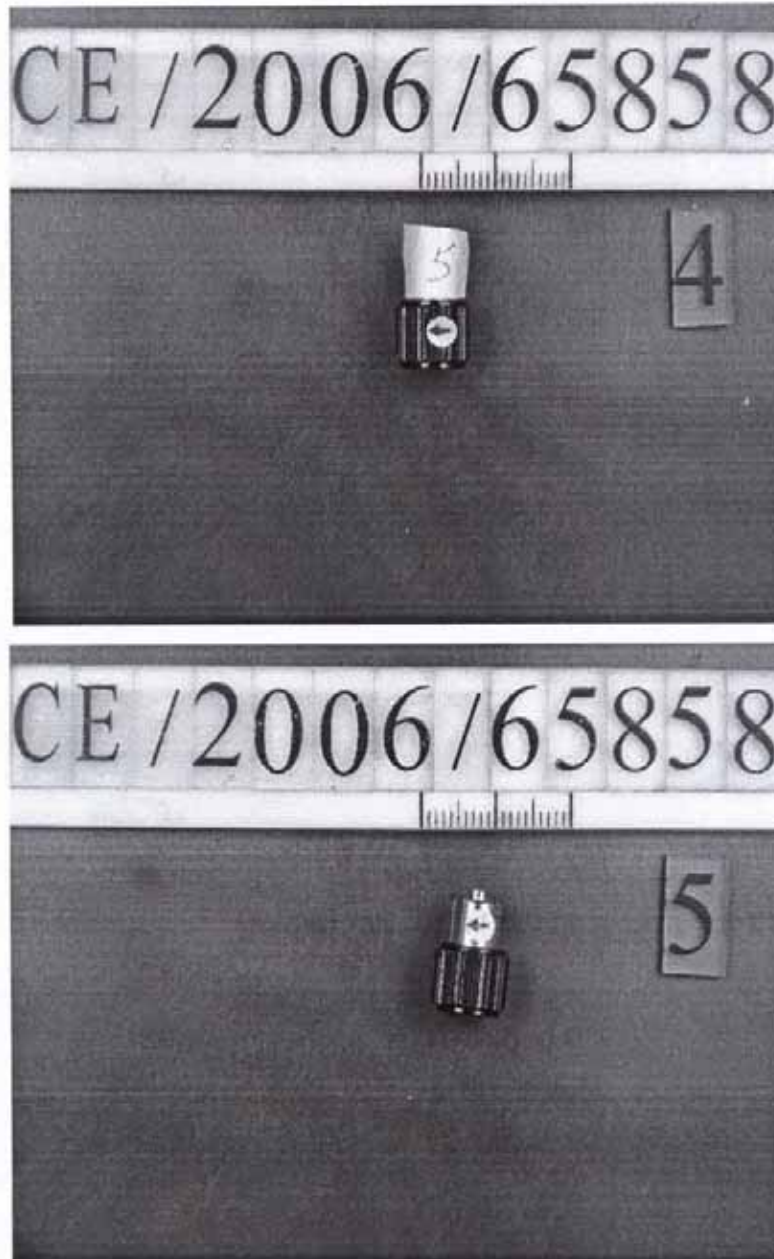
頁數：7 of 10

英碩科技股份有限公司 / INVAX SYSTEM TECHNOLOGY CORP.

康捷電子有限公司 / CORTEC TECHNOLOGY INC.

4F. NO. 815, CHUNG HSAIO EAST RD., SEC. 5, TAIPEI, TAIWAN,
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XIANXI INDUSTRIAL, SHATOU ADMINISTRATION ZONE, CHANGAN
TOWN, DONGGUAN GUANGDONG PROVINCE, CHINA



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號碼：CE/2006/65858B

日期：2007/04/19

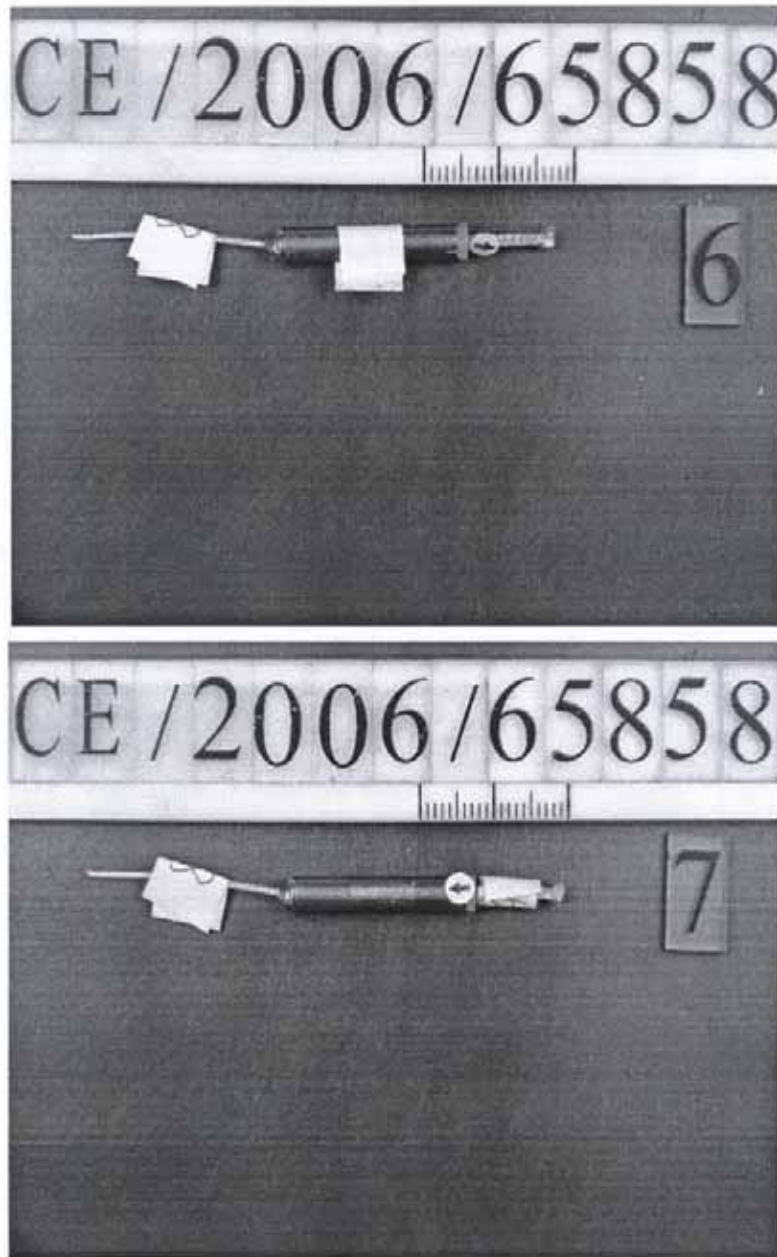
頁數：8 of 10

英碩科技股份有限公司 / INVAX SYSTEM TECHNOLOGY CORP.

康捷電子有限公司 / CORTEC TECHNOLOGY INC.

4F. NO. 815, CHUNG HSAIO EAST RD., SEC. 5, TAIPEI, TAIWAN,
R. O. C.

XIANXI INDUSTRIAL, SHATOU ADMINISTRATION ZONE, CHANGAN
TOWN, DONGGUAN GUANGDONG PROVINCE, CHINA



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測試報告

號碼 : CE/2006/65858B

日期 : 2007/04/19

頁數 : 9 of 10

英碩科技股份有限公司 / INVAX SYSTEM TECHNOLOGY CORP.

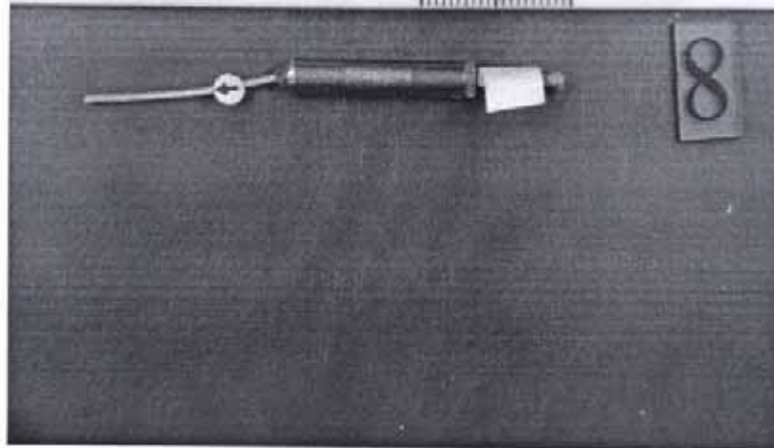
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4F. NO. 815, CHUNG HSAIO EAST RD., SEC. 5, TAIPEI, TAIWAN,
R. O. C.

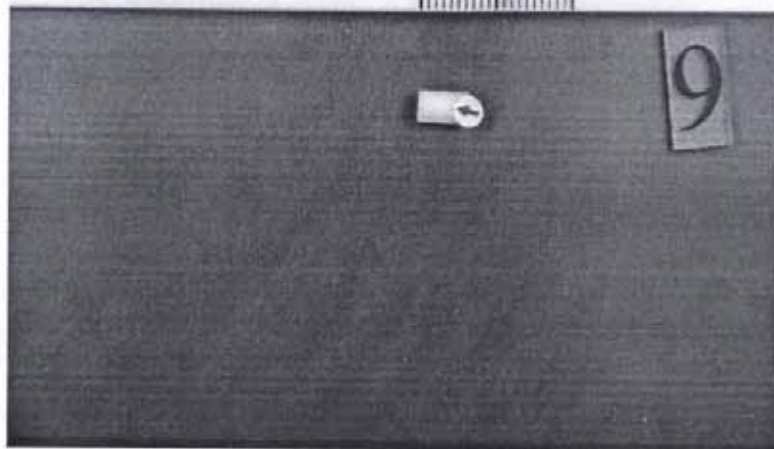
XIANXI INDUSTRIAL, SHATOU ADMINISTRATION ZONE, CHANGAN
TOWN, DONGGUAN GUANGDONG PROVINCE, CHINA



CE / 2006 / 65858



CE / 2006 / 65858



測試報告

號碼：CE/2006/65858B

日期：2007/04/19

頁數：10 of 10

英碩科技股份有限公司 / INVAX SYSTEM TECHNOLOGY CORP.

康捷電子有限公司 / CORTEC TECHNOLOGY INC.

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XIANXI INDUSTRIAL, SHATOU ADMINISTRATION ZONE, CHANGAN
TOWN, DONGGUAN GUANGDONG PROVINCE, CHINA



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