

Approval Sheet

Product Type		ı	GPRS / Bluetooth Antenna
ı Model Numbe	er	ı	Crete DA05
ı Revision		ı	X00
ı Part No. / Yag	eo / GPRS-BT Antenna	ı	CAN4313573022501B

Yageo (Taiwan) Ltd.

16, West 3rd Street, N.E.P.Z Kaohsiung, 811 Taiwan, R.O.C

Yageo Electronics (China) Co, Ltd

No. 10, Zhu Yuan Road, Suzhou New District, Suzhou, PRC

			R00	Sept. 20, 06
Multi Band Antenna with	CAN4313573022501B		R01	Oct. 03, 06
Cable & Connector			R02	Oct 20, 06
BY / Teresa Chang	DATE /	Oct. 3, 2006		

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1. Specifications

1.1 Specifications for Bluetooth Antenna

Frequency Range (GHz)	2.40 ~ 2.50	
VSWR	2.50 max	
Peak Gain (dBi)	-1.77	
MiniPCI Connector	Hirose U.FL (or Compatible)	
Impedance	50Ω	
Operating Temperature	-40~90°C	
Maximum Power	1W	
Polarization Linear		
Radiation Pattern Omni-directional		

1.2 Specifications for GPRS Antenna

Frequency Range (MHz)	880 ~ 960 for GSM900 Band 1710 ~ 2170 for GSM1800/1900/IMT2000 Band	
Peak Gain (dBi)	-3.07 for GSM900 Band -0.13 for GSM1800/1900/IMT2000 Band	
MiniPCI Connector	IPex or Hirose	
Impedance	50Ω	
Operating Temperature	-40~90°C	
Maximum Power	1W	
Polarization	Linear	
Radiation Pattern	Omni-directional	

1.3 Antenna Dimension / Cable Length / Cable Diameter

Product	Crete /DA05 Antenna	
Bluetooth Antenna Cable	Length=77mm, Color=White / OD=1.13mm	

Product	Crete /DA05 Antenna
GPRS Antenna Cable	Length=52mm, Color=Black / OD=1.13mm

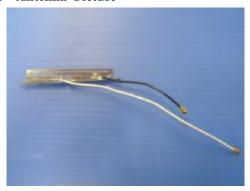
1.4 Packing Spec.

Product	For Example	
Inner Tray	60	
Carton Box	265*100	





1.5 Antenna Picture



2. Test Methodology

2.1 Test Equipment

The equipment for the antenna measurement we used is as follows.

- A. Agilent 8753ET / 8719D Network Analyzer to measure the VSWR and input impedance.
- B. Three-dimensional anechoic chamber to measure the gain (Standard dipole and horn were used to calibrate the chamber)
- C. Digital caliper to measure the dimensions.
- D. Climatic chamber for mechanical tests.

2.2 Test Setup

2.2.1 Frequency Range

Bluetooth: 2.40 ~ 2.50GHz, GPRS: 880~960MHz, 1710~2170MHz

2.2.2 Antenna Configuration

The antenna basically has two parts; the stamping and the cable assembly with the connector on one side. The detailed drawing is attached.

2.2.3 **VSWR**

The VSWR is measured with Agilent 8753ET/8719D network analyzer. All the measurements are performed with the customer provided fixture. Figure 1 shows the schematic diagram for measuring VSWR.



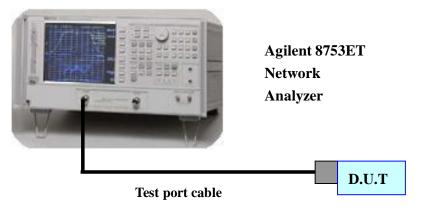


Figure 1. The schematic diagram for measuring VSWR

2.2.4 Radiation Pattern and Gain

The radiation pattern must have the omni-directional characteristic in both positions. The radiation pattern measurements are performed in the three-dimensional anechoic chamber. The chamber provides less than $-30 \, \mathrm{dB}$ reflectivity from 800MHz through 8GHz. The chamber is calibrated using both standard dipole and horn antenna. The gain here is expressed as dBi that standardizes the isotropic antenna. The gain measurements are also performed in the same chamber described previously. Figure 2 shows the schematic diagram for measuring radiation pattern and gain.

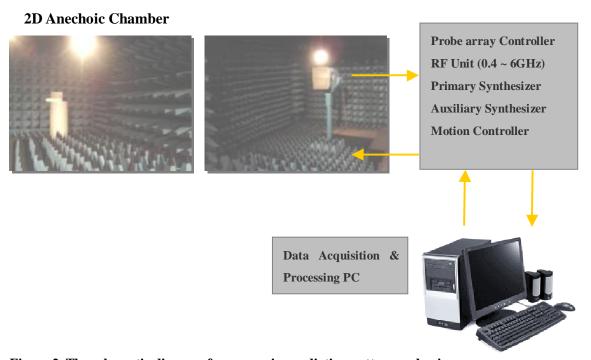


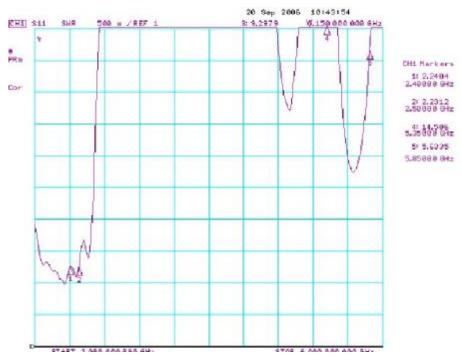
Figure 2. The schematic diagram for measuring radiation pattern and gain

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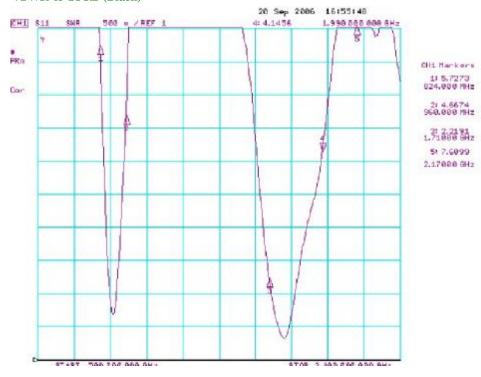
3. Performance Data

VSWR Measurement

VSWR of BLUETOOTH (White)



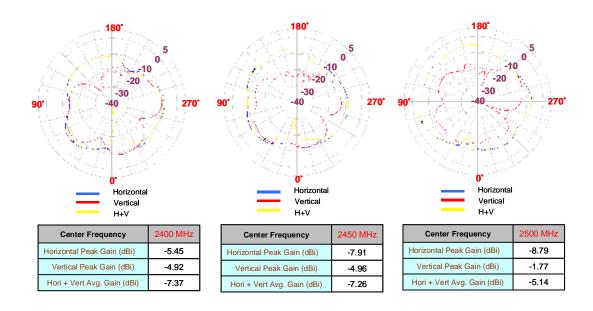
VSWR of GPRS (Black)





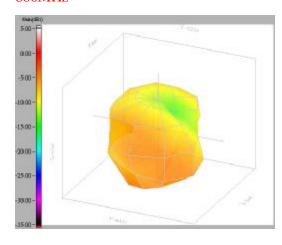
Radiation Pattern

-BLUETOOTH (White Cable)

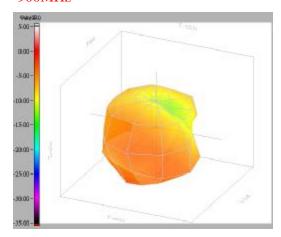


-GPRS(Black Cable)

880MHz

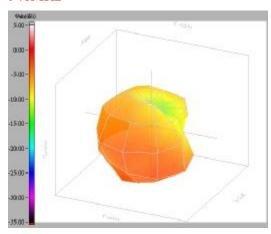


900MHz

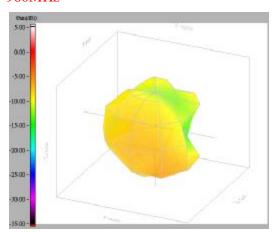




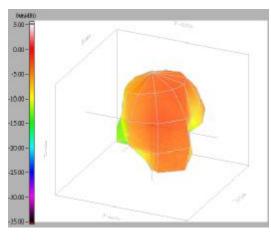
940MHz



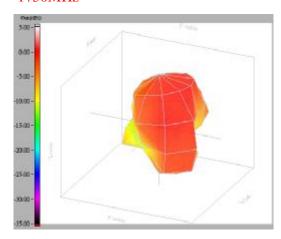
960MHz



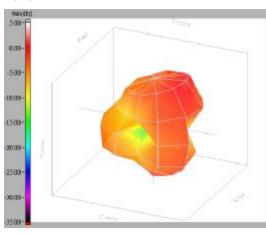
1710MHz



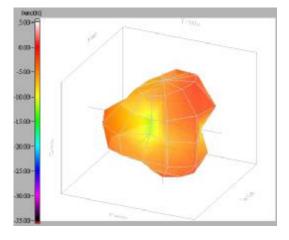
1750MHz



1840MHz



1880MHz

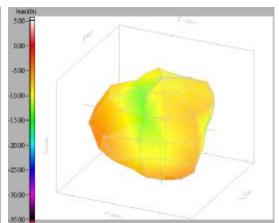




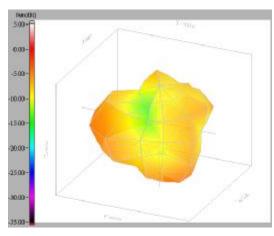
1960MHz

0:00-0:00--5:00--15:00--25:00--25:00-

2140MHz

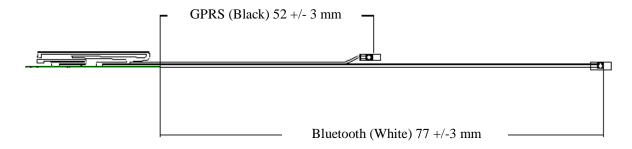


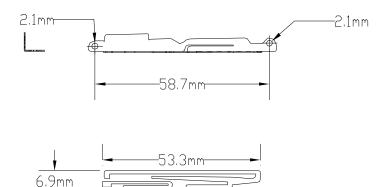
2170MHz





4. Antenna Drawing







5. Reliability Data For Antenna Patch (Reference To IEC)

IEC 384-10/ CECC 32 100 CLAUSE	IEC 60068-2 TEST METHOD	TEST	PROCEDURE	REQUIREMENTS
4.12	4(Na)	Rapid change of temperature	-40 °C (30 minutes) to +90 °C (30 minutes); 5 cycles	No visible damage Central Freq. Change ± 6%
4.14	3(Ca)	Damp heat	500 ± 12 hours at 40 °C; 90 to 95 % RH	No visible damage 2 hours recovery Central Freq. Change ± 6%
4.15		Endurance	500 ± 12 hours at 90 °C;	No visible damage 2 hours recovery Central Freq. Change ± 6%

6. Ordering Information: Yageo Ordering P/N Code

The antennas may be ordered by using the Yageo P/N ordering code. These code numbers can be determined by the following rules:

F. Family Code

CAN43 = Antenna

C. Packing Type Code

13 = Bulk (1000 pcs)

M. Materials Code

5 = High Frequency Material

S. Size/Series Code

43 = KH3 Antenna

T. Tolerance/Cable

01 = Full MIMO

A. Working Frequency

252 = 2.45/5 GHz Dual Band

P. Packing

1B = 1000 pcs packing



7. Revision Control

Document Revision	Date	Content	Remark
R00	Sept. 20, 2006	New Issued	N/A
R01	Oct. 03, 2006	Revised Cable Length of GPRS BT ant.	N/A
R02	Oct. 20,2006	Adding SGS Test Report	N/A

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9. SGS Documents

SGS Report of Metal Body



TEST REPORT

REPORT NO.KA/2008/80675 DATE: 2006/06/13

PAGE: 1 OF 2

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED ON BEHALF OF THE CLIENT AND IDENTIFIED AS:

CLIENT

: Yageo Corporation. : 16,West 3rd,N.E.P.Z. P.O. Box 35-106 Kaohsiung,Taiwan,R.O.C..

PRODUCT DESCRIPTION STYLE/ITEM NO.

; METAL (PHOSPHOR BRONZE). : MASS PRODUCTION TYPE. : AS ATTACHED PHOTO.

SAMPLE TESTING DATE

: 2006/6/12 TO 2006/6/13.

SAMPLE RECEIVED

: 2006/06/12.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S)	UNIT	METHOD	MDL	RESULT
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	550

NOTE: (1) n.d. = not detected

(2) ppm = mg/kg

(3) MDL = Method Detection Limit.

(4) Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.



Richard Kuo / Supervisor Signed for and on behalf of SGS Taiwan Limited





TEST REPORT

REPORT NO.KA/2006/60875 DATE: 2006/06/13 PAGE:2 OF 2





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TW 3018985





TEST REPORT

REPORT NO.KA/2006/60875B-01

DATE: 2006/06/19 PAGE: 1 OF 3

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED ON BEHALF OF THE CLIENT AND IDENTIFIED AS:

: Yageo Corporation.

: 16, West 3rd, N.E.P.Z. P.O. Box 35-106 Kaohsiung, Taiwan, R.O.C..

PRODUCT DESCRIPTION : METAL (PHOSPHOR BRONZE). STYLE/ITEM NO. : MASS PRODUCTION TYPE. SAMPLE : AS ATTACHED PHOTO. TESTING DATE : 2006/6/12 TO 2006/6/19.

SAMPLE RECEIVED

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S)	UNIT	METHOD	MDL	RESULT
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122 :2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
PBBs(Polybrominated biphenyls)				-
Monobromobiphenyl	%		0.0005	n.d.
Dibromobiphenyl	%	1	0.0005	n.d.
Tribromobiphenyl	- 36	Man of the Line Page 400	0.0005	n.d.
Tetrabromobiphenyl	%	With reference to USEPA3540C or	0.0005	n.d.
Pentabromobiphenyl	. %	USEPA3660C. Analysis was performed by	0.0005	n.d.
Hexabromobiphenyl	%	HPLC/DAD, LC/MS or GC/MS. (prohibited by	0.0005	n.d.
Heptabromobiphenyl	%	2002/96/EC (RoHS), 83/264/EEC, and	0.0005	n.d.
Octabromobiphenyl	%	76/769/EEC)	0.0005	n.d.
Nonabromobiphenyl	%		0.0005	n.d.
Decabromobiphenyl	%		0.0005	n.d.



Kueilan Chen / Asst. Supervisor Sign for and on behalf of SGS Taiwan Limited

TW 2621589





TEST REPORT

REPORT NO.KA/2006/80875B-01

DATE: 2008/06/19 PAGE: 2 OF 3

TEST ITEM(S)	UNIT	METHOD	MDL	RESULT		
PBDEs(Polybrominated biphenyl ethers)			-			
Monobromobiphenyl ether	%		0.0005	n.d.		
Dibromobiphenyl ether	%		0.0005	n.d.		
ribromobiphenyl ether	%	With reference to USEPA3540C or USEPA3560C. Analysis was performed by	0.0005	n.d.		
Tetrabromobiphenyl ether	%		0.0005	n.d.		
Pentabromobiphenyl ether	%		0.0005	n.d.		
Hexabromobiphenyl ether	9%	HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and	0.0005	n.d.		
Heptabromotiphenyl ether	94	78/789/EEC)	0.0005	n.d.		
Octabromobiphenyl ether	94	/birosreed,	0.0005	n.d.		
Nonabromobiphenyl ether	94		0.0005	n.d.		
Decabromotiphenyl ether	94		0.0005	n.d.		

NOTE: (1) n.d. = not detected

(2) ppm = mg/kg (3) MDL = Method Detection Limit

(4) Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.



This Table Report is idealed by the Companyon assect to its Command Considered of Enrice primed towards." After the indicating of a zone, increased control and Justicians desired distance. The results above in this had apport select only to exemption to exist under our distance of the report of the control of the contr

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No. 288. Chung New 2nd Read San Min Einstein Kanhaning, Taiwan. /高雄市三民医中華二路208能会学検験科技及分支集会司 1886-7] 323-0520 『移籍-7] 315-7494 Name Wings On Name Wings On





TEST REPORT

REPORT NO.KA/2006/608768-01 DATE: 2006/06/19 PAGE:3 OF 3





TW 2621587



SGS Report of Solder



TEST REPORT

REPORT NO.KA/2005/91321/A-1

DATE: 2005/9/29 PAGE: 1 OF 3

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED AND IDENTIFIED BY THE CLIENT AS:

CLIENT : YAGEO CORPORATION NANTZE BRANCH.

: 16,WEST 3RD, N.E.P.Z. P.O. BOX 35-106 KAOHSIUNG, TAIWAN, R.O.C.. : SOLDER. PRODUCT DESCRIPTION

: AS ATTACHED PHOTO. SAMPLE : 2005/9/22 TO 2005/9/29 . : 2005/09/22. TESTING DATE

SAMPLE RECEIVED

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
Nickel (Ni)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	501
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	282
PBBs(Polybrominated				
biphenyls)				
Monobromobiphenyl	%		0.0005	n.d.
Dibromobiphenyl	%	1	0.0005	n.d.
Tribromobiphenyl	%	With reference to USEPA3540C or	0.0005	n.d.
Tetrabromobiphenyl	%		0.0005	n.d.
Pentabromobiphenyl	%	USEPA3550C. Analysis was performed by	0.0005	n.d.
Hexabromobiphenyl	%	HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and	0.0005	n.d.
Heptabromobiphenyl	%	78/769/EEC)	0.0005	n.d.
Octabromobiphenyl	%	/orroa/EEC)	0.0005	n.d.
Nonabromobiphenyl	%	1	0.0005	n.d.
Decabromobiphenyl	96	1	0.0005	n.d.



Kueisan Chen

Kueilan Chen / Asst. Supervisor Sign for and on behalf of SGS Taiwan Limited

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SGS Talwan Ltd.

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



SGS Report of Solder (Continue)



TEST REPORT

REPORT NO.KA/2005/91321/A-1 DATE: 2005/9/29 PAGE: 2 OF 3

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
PBDEs(Polybrominated				
biphenyl ethers)				
Monobromobiphenyl ether	96		0.0005	n.d.
Dibromobiphenyl ether	%		0.0005	n.d.
Tribromobiphenyl ether	96	With reference to USEPA3540C or	0.0005	n.d.
Tetrabromobiphenyl ether	%	USEPA3550C. Analysis was performed by	0.0005	n.d.
Pentabromobiphenyl ether	%	HPLC/DAD, LC/MS or GC/MS. (prohibited by	0.0005	n.d.
Hexabromobiphenyl ether	%	2002/95/EC (RoHS), 83/264/EEC, and	0.0005	n.d.
Heptabromobiphenyl ether	%	76/769/EEC)	0.0005	n.d.
Octabromobiphenyl ether	%	70/70@EEC)	0.0005	n.d.
Nonabromobiphenyl ether	%		0.0005	n.d.
Decabromobiphenyl ether	%		0.0005	n.d.

<END>

SSS Taiwan Ltd. 台灣檢驗科技廠份有限公司

No. 208. Chung Hwa 2*4 Road, San Ming 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.sgs.com.tw

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NOTE: 1. n.d. = not detected. 2. DET. LMT = DETECTION LIMIT.



SGS Report of Solder (Continue)



TEST REPORT

REPORT NO.KA/2005/91321/A-1 DATE: 2005/9/29 PAGE: 3 OF 3



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SGS Toinson Ltd.
台灣檢輸科技股份有限公司

No. 208, Chung Hwa 2™ Road, San Ming District, Kaohsiung, Taiwan / 高 維 市 三 民 區 中 華 二 路 208 號
t (886-7) 323-0920 f (886-7) 315-7484 www.sgs.com.tw

Member of the 908 Group



SGS Report of I-Pex Connector



TEST REPORT

REPORT NO.KA/2005/A1103

DATE: 2005/10/31 PAGE: 1 OF 3

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED AND IDENTIFIED BY THE CLIENT AS:

: YAGEO CORPORATION NANTZE BRANCH. CLIENT

: 16,WEST 3RD,N.E.P.Z. P.O. BOX 35-108 KAOHSIUNG, TAIWAN R.O.C..

: I-PEX CONNECTOR. : AS ATTACHED PHOTO. PRODUCT DESCRIPTION SAMPLE : 2005/10/24 TO 2005/10/31. : 2005/10/24. TESTING DATE

SAMPLE RECEIVED

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122 :2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	As per US EPA 7198A and US EPA 3080A.	2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	n.d.
PBBs(Polybrominated biphenyls)				
Monobromobiphenyl	%		0.0005	n.d.
Dibromobiphenyl	%		0.0005	n.d.
Tribromobiphenyl	%	With reference to USEPA3540C or	0.0005	n.d.
Tetrabromobiphenyl	%		0.0005	n.d.
Pentabromobiphenyl	%	USEPA3550C. Analysis was performed by	0.0005	n.d.
Hexabromobiphenyl	%	HPLC/DAD, LC/MS or GC/MS. (prohibited by	0.0005	n.d.
Heptabromobiphenyl	%	2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Octabromobiphenyl	%		0.0005	n.d.
Nonabromobiphenyl	%		0.0005	n.d.
Decabromobiphenyl	%	1	0.0005	n.d.



Kucifan Chen

Kueilan Chen / Asst. Supervisor Sign for and on behalf of SGS Taiwan Limited

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SGS Report of I-Pex Connector (Continue)



TEST REPORT

REPORT NO.KA/2005/A1103 DATE: 2005/10/31 PAGE: 2 OF 3

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
PBDEs(Polybrominated biphenyl ethers)			-	
Monobromobiphenyl ether	96		0.0005	n.d.
Dibromobiphenyl ether	96		0.0005	n.d.
Tribromobiphenyl ether	96	With reference to USEPA3540C or	0.0005	n.d.
Tetrabromobiphenyl ether	96		0.0005	n.d.
Pentabromobiphenyl ether	96	USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by	0.0005	n.d.
Hexabromobiphenyl ether	96	2002/95/EC (RoHS), 83/264/EEC, and	0.0005	n.d.
Heptabromobiphenyl ether	%	78/769/EEC)	0.0005	n.d.
Octabromobiphenyl ether	%	70/70WEEC)	0.0005	n.d.
Nonabromobiphenyl ether	%		0.0005	n.d.
Decabromobiphenyl ether	96		0.0005	n.d.

<END>

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NOTE: 1. n.d. = not detected. 2. DET. LMT = DETECTION LIMIT.



SGS Report of I-Pex Connector (Continue)



TEST REPORT

REPORT NO.KA/2005/A1103 DATE: 2005/10/31 PAGE: 3 OF 3



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SGS Report of White Cable



Test Report

YAGEO CORPORATION

16, WEST 3TH, N.E.P.Z. P.O. BOX 35-106 KAOHSIUNG,

TAIWAN, R.O.C.

Report No.: KA/2006/81966

: 2006/8/25

: 1 of 4 1910 FT 1010 FT

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

: ANTENNA CABLE(WHITE COLOR) Sample Description

Style/Item No. : NISSEI

Sample Received : 2006/08/23

Testing Date : 2006/08/23 TO 2006/8/25

: - Please see the next page(s) -Test Result(s)

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

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SGS of Report White Cable (Continue)



Test Report

YAGEO CORPORATION

16, WEST 3TH, N.E.P.Z. P.O. BOX 35-106 KAOHSIUNG,

TAIWAN, R.O.C.

Report No.: KA/2006/81966

Date : 2006/8/25 : 2 of 4 Page

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Test Result(s)

PART NAME NO.1 : WHITE JACKET(OUTER CLADDING) PART NAME NO.2 : COPPER ALLOY AXLE INSIDE CABLE PART NAME NO.3 : INSULATOR(INNER CLADDING)

Test Item (s)	Unit	Method	MDL	Result		
rest item (s)	Unit	Method	MDL	No.1	No.2	No.3
Cadmium (Cd)	- W	With reference to EN 1122; method B:2001. Analysis was performed by ICP-AES.	2	N.D.	N.D.	N.D.
Chromium VI (Cr+6)		With referece to US EPA 3060A. Analysis was performed by UV-VIS (US EPA 7196A)	2	N.D.	N.D.	N.D.
Mercury (Hg)		With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	N.D.	N.D.	N.D.
Lead (Pb)		With reference to US EPA 3050B. Analysis was performed by ICP-AES.	2	N.D.	6.57	N.D.
PBBs(Polybrominated biphenyls)						112
Monobromobiphenyl	mg/kg		5	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	1	5	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg		5	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg		5	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	With reference to	5	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	USEPA3540C, Analysis was performed by GC/MS and	5	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	screening via USEPA 3550C	5	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	with GC/MS	5	N.D.	N.D.	N.D.
Nonabromobiphenyl	mg/kg	do,	5	N.D.	N.D.	N.D.
Decabromobiphenyl	mg/kg		5	N.D.	N.D.	N.D.
Total PBBs(Polybrominated biphenyls)/Sum of above	mg/kg (ppm)		22	N.D.	N.D.	N.D.

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SGS of Report White Cable (Continue)



Test Report

YAGEO CORPORATION 16, WEST 3TH, N.E.P.Z. P.O. BOX 35-106 KAOHSIUNG, TAIWAN, R.O.C.

Report No.: KA/2006/81966

: 2006/8/25 Date

Page : 4 of 4





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SGS Report of Black Cable



TEST REPORT

REPORT NO.KA/2005/91334 DATE: 2005/9/29 PAGE: 1 OF 7

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED AND IDENTIFIED BY THE CLIENT AS:

: YAGEO CORPORATION NANTZE BRANCH. CLIENT

: 16,WEST 3RD, N.E.P.Z. P.O. BOX 35-106 KAOHSIUNG, TAIWAN, R.O.C..
PRODUCT DESCRIPTION : MIX TEST:CABLE(BLACK COLOR).
SAMPLE : AS ATTACHED PHOTO.

: 2005/9/22 TO 2005/9/29 . : 2005/09/22. TESTING DATE SAMPLE RECEIVED

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE

OBTAINED.

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Asbestos			-	-
Anthrophyllite(CAS NO.017068-78- 9)		As per NIOSH 9000 method. Analysis was performed by XRD.	-	n.d.
Crocidolite(CAS NO.012001-28-4)	ı	As per NIOSH 9000 method. Analysis was performed by XRD.	-	n.d.
Amosite(CAS NO.012172-73-5)	ı	As per NIOSH 9000 method. Analysis was performed by XRD.	1	n.d.
Tremolite(CAS NO.014567-73-8)	1	As per NIOSH 9000 method. Analysis was performed by XRD.	-	n.d.
Chrysotile(CAS NO.012001-29-5)	i	As per NIOSH 9000 method. Analysis was performed by XRD.	-	n.d.
Actinolite(CAS NO.013768-00-8)	i	As per NIOSH 9000 method. Analysis was performed by XRD.	-	n.d.
Chlorinated Paraffin (C10~C13) (CAS NO:010871-28-2)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by GC/MS or GC/ECD.	0.01	n.d.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	n.d.
Formaldehyde(CAS No:000050-00- 0)	ppm	With reference to DIN 53315 & USEPA 8315A. Analysis was performed by HPLC/DAD/MS	0.2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
Mirex(CAS NO:002385-85-5)	ppm	Analysis was performed by GC/MS.	4	n.d.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	n.d.



Kucifan Chen Kueilan Chen / Asst. Supervisor Sign for and on behalf of SGS Taiwan Limited

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No. 208, Chung Hwa 2™ Road, San Ming District, Keoheiung, Taiwan / 高雄市三民區中華二路 208 號
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TEST REPORT

REPORT NO.KA/2005/91334 DATE: 2005/9/29 PAGE: 2 OF 7

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
PBBs(Polybrominated biphenyls)	<u> 200</u> 8	<u>0</u> 20	<u> 200</u> %	28
Monobromobiphenyl	%		0.0005	n.d.
Dibromobiphenyl	%	İ	0.0005	n.d.
Tribromobiphenyl	%	With reference to USEPA3540C or	0.0005	n.d.
Tetrabromobiphenyl	%	USEPA3550C. Analysis was performed by	0.0005	n.d.
Pentabromobiphenyl	%	HPLC/DAD, LC/MS or GC/MS, (prohibited by	0.0005	n.d.
Hexabromobiphenyl	%	2002/95/EC (RoHS), 83/264/EEC, and	0.0005	n.d.
Heptabromobiphenyl	%	76/769/EEC) and	0.0005	n.d.
Octabromobiphenyl	%	rorrosiceo)	0.0005	n.d.
Nonabromobiphenyl	%	Ī	0.0005	n.d.
Decabromobiphenyl	%	Ī	0.0005	n.d.
PBDEs(Polybrominated biphenyl ethers)	_	-	_	-
Monobromobiphenyl ether	%		0.0005	n.d.
Dibromobiohenyl ether	%	†	0.0005	n.d.
Tribromobiphenyl ether	%	1451 - 5 11050405400	0.0005	n.d.
Tetrabromobiphenyl ether	%	With reference to USEPA3540C or	0.0005	n.d.
Pentabromobiphenyl ether	%	USEPA3550C. Analysis was performed by	0.0005	n.d.
Hexabromobiohenvl ether	%	HPLC/DAD, LC/MS or GC/MS. (prohibited by	0.0005	n.d.
Heptabromobiphenyl ether	%	2002/95/EC (RoHS), 83/264/EEC, and	0.0005	n.d.
Octabromobiphenyl ether	%	76/769/EEC)	0.0005	n.d.
Nonabromobiphenyl ether	%	İ	0.0005	n.d.
Decabromobiphenyl ether	%	†	0.0005	n.d.
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)	ppm	With reference to USEPA 8082A. Analysis was performed by GC/MS or GC/ECD.	0.5	n.d.
Polychlorinated Naphthalene	ppm	Analysis was performed by GC/MS.	5	n.d.
PCTs(Polychlorinated Terphenyls)	ppm	Analysis was performed by GC/MS or GC/ECD.	0.5	n.d.
PVC (CAS No:9002-86-2)	_	FTIR/ATR AND FLAME TEST	_	NEGATIVE
Organic-TIN compounds	_	_	_	_
Tributyl Tin(TBT)	ppm	With reference to 89/877/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	n.d.
Triphenyl Tin(TPT)(CAS NO:000668-34-8)	ppm	With reference to 89/877/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	n.d.
HCFC's(Hydrogenated chlorofluorocarbons)	-	With reference to US EPA 8260.	_	_
Hydrochlorofluorocarbon-21(CAS No.:000075-43-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-22(CAS No.:000075-45-6)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.





TEST REPORT

REPORT NO.KA/2005/91334 DATE: 2005/9/29 PAGE: 3 OF 7

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Hydrochlorofluorocarbon-31(CAS No.:000593-70-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-121(CAS No.:000354-14-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-122(CAS No.:000354-21-2)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-123(CAS No.:000306-83-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-124(CAS No.:002837-89-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-131(CAS No.:000359-28-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon- 132b(CAS No.:000471-43-2)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon- 133a(CAS No.:000075-88-7)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon- 141b(CAS No.:001717-00-6)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-142b	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-221	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-222(CAS No.:000422-30-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-223	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-224	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon- 225ca(CAS No.:000422-56-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon- 225cb(CAS No.:000507-55-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-226(CAS No.:000431-87-8)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-231	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-232	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-233	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-234	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.





TEST REPORT

REPORT NO.KA/2005/91334 DATE: 2005/9/29 PAGE: 4 OF 7

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Hydrochlorofluorocarbon-235(CAS No.:013838-16-9)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-241	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-242	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-243(CAS No.:000338-75-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-244	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-251	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-252	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-253(CAS No.:000354-06-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-261(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-262(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-271	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
CFCs(Chiorofluorocarbons) & HALON		With reference to US EPA 8260.		
Chlorofluorocarbon-11(CAS No:000075-69-4)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-12(CAS No:000075-71-8)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-113(CAS No:000076-13-1)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-114(CAS No:000076-14-2)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-115(CAS No:000076-15-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
HALON-1211	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
HALON-1301	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
HALON-2402	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chiorofluorocarbon-13(CAS No:000075-72-9)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.

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TEST REPORT

REPORT NO.KA/2005/91334 DATE: 2005/9/29 PAGE: 5 OF 7

TEST ITEM(S)	UNIT	METHOD	DET, LMT	RESULT
Chlorofluorocarbon-111(CAS No:000354-56-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-112(CAS No:000076-12-0)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-211(CAS No:135401-87-5)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-212(CAS No:076564-99-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-213(CAS No:060285-54-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-214(CAS No:002268-46-4)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-215(CAS No:000076-17-5)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-216(CAS No:001652-80-8)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-217(CAS No:000422-86-6)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Carbon Tetrachloride	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Methyl Chloroform	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
AZO		As per LMBG 8202-2		
1):4-AMINODIPHENYL (CAS NO.92-67-1)	ppm	Analysis was performed by GC/MS.	3	n.d.
2):BENZIDINE (CAS NO.92-87-5)	ppm	Analysis was performed by GC/MS.	3	n.d.
3):4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	ppm	Analysis was performed by GC/MS.	3	n.d.
4):2-NAPHTHYLAMINE (CAS NO.91-59-8)	ppm	Analysis was performed by GC/MS.	3	n.d.
5):O-AMINO-AZOTOLUENE (CAS NO.97-56-3)	ppm	Analysis was performed by GC/MS.	3	n.d.
6):2-AMINO-4-NITROTOLUENE (CAS NO.99-55-8)	ppm	Analysis was performed by GC/MS.	3	n.d.
7):P-CHLOROANILINE (CAS NO.106-47-8)	ppm	Analysis was performed by GC/MS.	3	n.d.
8):2,4-DIAMINOANISOLE (CAS NO.615-05-4)	ppm	Analysis was performed by GC/MS.	3	n.d.
9):4,4- DIAMINODIPHENYLMETHANE (CAS NO.101-77-9)	ppm	Analysis was performed by GC/MS.	3	n.d.

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838 Televan Ltd.
No. 208, Chung Hiwe 2×1 Rood, San Ming District, Kachslung, Talean / 高 維 市 三 民 医 中 華 二路 208 號
c (886-7) 323-4920 f (886-7) 315-7484 www.sps.com.tw

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TEST REPORT

REPORT NO.KA/2005/91334 DATE: 2005/9/29 PAGE: 6 OF 7

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
10):3,3-DICHLOROBENZIDINE (CAS NO.91-94-1)	ppm	Analysis was performed by GC/MS.	3	n.d.
11):3,3-DIMETHOXYBENZIDINE (CAS NO.119-90-4)	ppm	Analysis was performed by GC/MS.	3	n.d.
12):3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7)	ppm	Analysis was performed by GC/MS.	3	n.d.
13):3,3-DIMETHYL-4,4- DIAMINODIPHENYLMETHA (CAS NO.838-88-0)	ppm	Analysis was performed by GC/MS.	3	n.d.
(4):P-CRESIDINE(2-METHOXY-5- METHYLANILINE) (CAS NO.120-71-8)	ppm	Analysis was performed by GC/MS.	3	n.d.
15):4,4-METHYLENE-BIS- (2-CHLORANILINE) (CAS NO.101-14-4)	ppm	Analysis was performed by GC/MS.	3	n.d.
16):4,4-OXYDIANILINE (CAS NO.101-80-4)	ppm	Analysis was performed by GC/MS.	3	n.d.
17):4,4-THIODIANILINE (CAS NO.139-65-1)	ppm	Analysis was performed by GC/MS.	3	n.d.
18):O-TOLUIDINE (CAS NO.95-53-4)	ppm	Analysis was performed by GC/MS.	3	n.d.
19):2-4-TOLUYLENDIAMINE (CAS NO.95-80-7)	ppm	Analysis was performed by GC/MS.	3	n.d.
20):2,4,5-TRIMETHYLANILINE (CAS NO.137-17-7)	ppm	Analysis was performed by GC/MS.	3	n.d.
21):O-ANISIDINE (CAS NO.90-04-0)	ppm	Analysis was performed by GC/MS.	3	n.d.
22):P-AMINOAZOBENZENE (CAS NO.60-09-3)	ppm	Analysis was performed by GC/MS.	3	n.d.
Halogen		As per EN14582 method B.		
Halogen-Chlorine (CI)(CAS No:007782-50-5)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	n.d.
Halogen-Fluorine (F)(CAS No:007782-41-4)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	259000

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TEST REPORT

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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Halogen-Bromine (Br)(CAS No:007726-95-6)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	n.d.
Halogen-lodine (I)(CAS No:007553-56-2)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	466

NOTE: 1. n.d. = not detected. 2. DET. LMT = DETECTION LIMIT.

<END>

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Manber of the 505 Googs



SGS Report of Protective Tube



TEST REPORT

REPORT NO.KA/2005/91332 DATE: 2005/9/29 PAGE: 1 OF 7

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED AND IDENTIFIED BY THE CLIENT AS:

CLIENT : YAGEO CORPORATION NANTZE BRANCH.

: 16,WEST 3RD, N.E.P.Z. P.O. BOX 35-106 KAOHSIUNG, TAIWAN, R.O.C..

PRODUCT DESCRIPTION : PROTECTION TUBE. : AS ATTACHED PHOTO. SAMPLE TESTING DATE : 2005/9/22 TO 2005/9/29 . SAMPLE RECEIVED : 2005/09/22.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE

OBTAINED.

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Asbestos				
Anthrophyllite(CAS NO.017068-78- 9)	-	As per NIOSH 9000 method. Analysis was performed by XRD.		n.d.
Crocidolite(CAS NO.012001-28-4)		As per NIOSH 9000 method. Analysis was performed by XRD.		n.d.
Amosite(CAS NO.012172-73-5)		As per NIOSH 9000 method. Analysis was performed by XRD.		n.d.
Tremolite(CAS NO.014567-73-8)		As per NIOSH 9000 method. Analysis was performed by XRD.		n.d.
Chrysotile(CAS NO.012001-29-5)		As per NIOSH 9000 method. Analysis was performed by XRD.		n.d.
Actinolite(CAS NO.013768-00-8)		As per NIOSH 9000 method. Analysis was performed by XRD.		n.d.
Chlorinated Paraffin (C10~C13) (CAS NO:010871-28-2)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by GC/MS or GC/ECD.	0.01	n.d.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	n.d.
Formaldehyde(CAS No:000050-00- 0)	ppm	With reference to DIN 53315 & USEPA 8315A. Analysis was performed by HPLC/DAD/MS	0.2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
Mirex(CAS NO:002385-85-5)	ppm	Analysis was performed by GC/MS.	4	n.d.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	n.d.



Kueisan Chen Kueilan Chen / Asst. Supervisor Sign for and on behalf of SGS Taiwan Limited

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SGS Report of Protective Tube (Continue)



TEST REPORT

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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
PBBs(Polybrominated biphenyls)		2		144
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by	0.0005	n.d.
Dibromobiphenyl	%		0.0005	n.d.
Tribromobiphenyl	%		0.0005	n.d.
Tetrabromobiphenyl	%		0.0005	n.d.
Pentabromobiphenyl	%	HPLC/DAD, LC/MS or GC/MS. (prohibited by	0.0005	n.d.
Hexabromobiphenyl	%	2002/95/EC (RoHS), 83/264/EEC, and	0.0005	n.d.
Heptabromobiphenyl	%	76/769/EEC)	0.0005	n.d.
Octabromobiphenyl	%	70/709/EEC)	0.0005	n.d.
Nonabromobiphenyl	%	1	0.0005	n.d.
Decabromobiphenyl	%	l l	0.0005	n.d.
PBDEs(Polybrominated biphenyl				_
ethers)				
Monobromobiphenyl ether	%		0.0005	n.d.
Dibromobiphenyl ether	%		0.0005	n.d.
Tribromobiphenyl ether	%	With reference to USEPA3540C or	0.0005	n.d.
Tetrabromobiphenyl ether	%	USEPA3550C. Analysis was performed by	0.0005	n.d.
Pentabromobiphenyl ether	%	HPLC/DAD, LC/MS or GC/MS. (prohibited by	0.0005	n.d.
Hexabromobiphenyl ether	%	2002/95/EC (RoHS), 83/264/EEC, and	0.0005	n.d.
Heptabromobiphenyl ether	%	76/769/EEC)	0.0005	n.d.
Octabromobiphenyl ether	%	/orroweed)	0.0005	n.d.
Nonabromobiphenyl ether	%		0.0005	n.d.
Decabromobiphenyl ether	%	1	0.0005	n.d.
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)	ppm	With reference to USEPA 8082A. Analysis was	0.5	n.d.
		performed by GC/MS or GC/ECD.	5	
Polychlorinated Naphthalene	ppm	Analysis was performed by GC/MS. Analysis was performed by GC/MS or GC/ECD.	0.5	n.d.
PCTs(Polychlorinated Terphenyls) PVC (CAS No:9002-86-2)	ppm			n.d.
Organic-TIN compounds		FTIR/ATR AND FLAME TEST		NEGATIVE
Tributyl Tin(TBT)	ppm	With reference to 89/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	n.d.
Triphenyl Tin(TPT)(CAS NO:000668-34-8)	ppm	With reference to 89/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	n.d.
HCFC's(Hydrogenated chlorofluorocarbons)		With reference to US EPA 8260.		
Hydrochlorofluorocarbon-21(CAS No.:000075-43-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-22(CAS No.:000075-45-6)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-31(CAS No.:000593-70-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.

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SGS Report of Protective Tube (Continue)



TEST REPORT

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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Hydrochlorofluorocarbon-121(CAS No::000354-14-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-122(CAS No.:000354-21-2)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-123(CAS No.:000306-83-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-124(CAS No.:002837-89-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-131(CAS No.:000359-28-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-132b(CAS No.:000471-43-2)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-133a(CAS No.:000075-88-7)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-141b(CAS No.:001717-00-6)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-142b	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-221	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-222(CAS No.:000422-30-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-223	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-224	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon- 225ca(CAS No.:000422-56-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon- 225cb(CAS No.:000507-55-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-226(CAS No.:000431-87-8)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-231	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-232	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-233	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-234	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-235(CAS No.:D13838-16-9)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.

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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Hydrochlorofluorocarbon-241	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-242	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-243(CAS No.:000338-75-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-244	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-251	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-252	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-253(CAS No.:000354-06-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-261(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-262(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
Hydrochlorofluorocarbon-271	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	n.d.
CFCs(Chlorofluorocarbons) & HALON		With reference to US EPA 8260.		
Chlorofluorocarbon-11(CAS No:000075-69-4)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-12(CAS No:000075-71-8)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-113(CAS No:000076-13-1)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-114(CAS No:000076-14-2)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-115(CAS No:000076-15-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
HALON-1211	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
HALON-1301	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
HALON-2402	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-13(CAS No:000075-72-9)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-111(CAS No:000354-56-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.

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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Chlorofluorocarbon-112(CAS No:000076-12-0)	ppm	Analysis was performed by GC/MS, [CFC's (Chlorofluorocarbons)]	(1	n.d.
Chlorofluorocarbon-211(CAS No:135401-87-5)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	9	n.d.
Chlorofluorocarbon-212(CAS No:076564-99-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-213(CAS No:060285-54-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-214(CAS No:002268-46-4)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-215(CAS No:000076-17-5)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-216(CAS No:001652-80-8)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Chlorofluorocarbon-217(CAS No:000422-86-6)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Carbon Tetrachloride	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
Methyl Chloroform	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	n.d.
AZO		As per LMBG 8202-2		
1):4-AMINODIPHENYL (CAS NO.92-67-1)	ppm	Analysis was performed by GC/MS.	3	n.d.
2):BENZIDINE (CAS NO.92-87-5)	ppm	Analysis was performed by GC/MS.	3	n.d.
3):4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	ppm	Analysis was performed by GC/MS.	3	n.d.
4):2-NAPHTHYLAMINE (CAS NO.91-59-8)	ppm	Analysis was performed by GC/MS.	3	n.d.
5):O-AMINO-AZOTOLUENE (CAS NO.97-56-3)	ppm	Analysis was performed by GC/MS.	3	n.d.
6):2-AMINO-4-NITROTOLUENE (CAS NO.99-55-8)	ppm	Analysis was performed by GC/MS.	3	n.d.
7):P-CHLOROANILINE (CAS NO.106-47-8)	ppm	Analysis was performed by GC/MS.	3	n.d.
8):2,4-DIAMINOANISOLE (CAS NO.615-05-4)	ppm	Analysis was performed by GC/MS.	3	n.d.
9):4,4- DIAMINODIPHENYLMETHANE (CAS NO.101-77-9)	ppm	Analysis was performed by GC/MS.	3	n.d.
10);3,3-DICHLOROBENZIDINE (CAS NO.91-94-1)	ppm	Analysis was performed by GC/MS.	3	n.d.

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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
11):3,3-DIMETHOXYBENZIDINE (CAS NO.119-90-4)	ppm	Analysis was performed by GC/MS.	3	n.d.
12):3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7)	ppm	Analysis was performed by GC/MS.	3	n.d.
13):3,3-DIMETHYL-4,4- DIAMINODIPHENYLMETHA (CAS NO.838-88-0)	ppm	Analysis was performed by GC/MS.	3	n.d.
14):P-CRESIDINE(2-METHOXY-5- METHYLANILINE) (CAS NO.120-71-8)	ppm	Analysis was performed by GC/MS.	3	n.d.
15):4,4-METHYLENE-BIS- (2-CHLORANILINE) (CAS NO.101-14-4)	ppm	Analysis was performed by GC/MS.	3	n.d.
16):4,4-OXYDIANILINE (CAS NO.101-80-4)	ppm	Analysis was performed by GC/MS.	3	n.d.
17):4,4-THIODIANILINE (CAS NO.139-65-1)	ppm	Analysis was performed by GC/MS.	3	n.d.
18):O-TOLUIDINE (CAS NO.95-53-4)	ppm	Analysis was performed by GC/MS.	3	n.d.
19):2-4-TOLUYLENDIAMINE (CAS NO.95-80-7)	ppm	Analysis was performed by GC/MS.	3	n.d.
20):2,4,5-TRIMETHYLANILINE (CAS NO.137-17-7)	ppm	Analysis was performed by GC/MS.	3	n.d.
21):O-ANISIDINE (CAS NO.90-04-0)	ppm	Analysis was performed by GC/MS.	3	n.d.
22):P-AMINOAZOBENZENE (CAS NO.60-09-3)	ppm	Analysis was performed by GC/MS.	3	n.d.
Halogen		As per EN14582 method B.		
Halogen-Chlorine (CI)(CAS No:007782-50-5)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	n.d.
Halogen-Fluorine (F)(CAS No:007782-41-4)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	n.d.
Halogen-Bromine (Br)(CAS No:007726-95-6)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	n.d.

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TEST REPORT

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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Halogen-lodine (I)(CAS No:007553- 56-2)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	n.d.

NOTE: 1. n.d. - not detected.

2. DET. LMT - DETECTION LIMIT.

<END>

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Test Report

HOPE DISTRIBUTION INC. Report No. : CE/2005/95657 10F, NO. 111, SEC. 1, KEELUNG RD., TAIPEI, TAIWAN Date : 2005/10/03

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The following merchandise was (were) submitted and identified by the client as :

Type of Product POLYESTER FILM

Style/Item No : \$10
 Manufacturer/Vendor
 : TORAY

 Country of Origin
 : JAPAN

 Sample Received
 : 2005/09/23

 Testing Date
 : 2005/09/23 TO 2005/10/03

Test Result | Please see the next page

Operation Manager gned for and on behalf of

SGS TAIWAN LTD.

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Test Result

PART NAME NO.1 : TRANSPARENT PLASTIC (PLEASE REFER TO THE

PHOTO ATTACHED)

	**	2 (2		Result
Test Item (s):	Unit Method	MDL	No.1	
Asbestos				
Anthrophyllite(CAS NO.017068-78-9)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	22	Negative
Crocidolite(CAS NO.012001- 28-4)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	ē	Negative
Amosite(CAS NO.012172-73- 5)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	55	Negative
Tremolite(CAS NO.014567- 73-8)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	<u>@</u>	Negative
Chrysotile(CAS NO.012001- 29-5)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	**	Negative
Actinolite(CAS NO.013768- 00-8)	żż	As per NIOSH 9000 method. Analysis was performed by XRD.	Æ	Negative

Test Item (s):	** **	0.12/10/11/21	MDI	Result
	Unit	Method	MDL	No.1
AZO		As per LMBG 8202-2		
4-AMINODIPHENYL (CAS NO.92-67-1)	ppm	Analysis was performed by GC/MS.	3	N.D.
BENZIDINE (CAS NO.92- 87-5)	ppm	Analysis was performed by GC/MS.	3	N.D.
4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	ppm	Analysis was performed by GC/MS.	3	N.D.
2-NAPHTHYLAMINE (CAS NO.91-59-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
O-AMINOAZOTOLUENE (CAS NO.97-56-3)	ppm	Analysis was performed by GC/MS.	3	N.D.

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m . T ()	**	W	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
2-AMINO-4-NITROTOLUENE (CAS NO.99-55-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
P-CHLOROANILINE (CAS NO.106-47-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
2,4-DIAMINOANISOLE (CAS NO.615-05-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4- DIAMINODIPHENYLMETHA NE (CAS NO.101-77-9)	ppm	Analysis was performed by GC/MS.	3	N.D.
3,3-DICHLOROBENZIDINE (CAS NO.91-94-1)	ppm	Analysis was performed by GC/MS.	3	N.D.
3,3-DIMETHOXYBENZIDINE (CAS NO.119-90-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7)	ppm	Analysis was performed by GC/MS.	3	N.D.
3,3-DIMETHYL-4,4- DIAMINODIPHENYLMETHA NE (CAS NO.838-88-0)	ppm	Analysis was performed by GC/MS.	3	N.D.
P-CRESIDINE(2-METHOXY- 5-METHYLANILINE) (CAS NO.120-71-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4-METHYLENE-BIS-(2- CHLORANILINE) (CAS NO.101-14-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4-OXYDIANILINE (CAS NO.101-80-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4-THIODIANILINE (CAS NO.139-65-1)	ppm	Analysis was performed by GC/MS.	3	N.D.
O-TOLUIDINE (CAS NO.95- 53-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
2,4-TOLUYLENDIAMINE (CAS NO.95-80-7)	ppm	Analysis was performed by GC/MS.	3	N.D.
2,4,5-TRIMETHYLANILINE (CAS NO.137-17-7)	ppm	Analysis was performed by GC/MS.	3	N.D.
O-ANISIDINE (CAS NO.90- 04-0)	ppm	Analysis was performed by GC/MS.	3	N.D.
P-AMINOAZOBENZENE (CAS NO.60-09-3)	ppm	Analysis was performed by GC/MS.	3	N.D.

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Test Item (s):	Unit	Method	MDL	Result
rest item (s):	Unit	Method	MDL	No.1
CFC's(Chlorofluorocarbons)		With reference to US EPA 8260.		
Group I				
Chlorofluorocarbon-11(CAS No:000075-69-4)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoroc arbons))	1	N.D.
Chlorofluorocarbon-12(CAS No:000075-71-8)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-113(CAS No:000076-13-1)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-114(CAS No:000076-14-2)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-115(CAS No:000076-15-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Group III				
Chlorofluorocarbon-13(CAS No:000075-72-9)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-111(CAS No:000354-56-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-112(CAS No:000076-12-0)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-211(CAS No:135401-87-5)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-212(CAS No:076564-99-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-213(CAS No:060285-54-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-214(CAS No:002268-46-4)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.

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Test Item (s):	Unit	Method	мпъ	Result
	Dian			No.1
Chlorofluorocarbon-215(CAS No:000076-17-5)	phin	Analysis was performed by CC/MS. [CFC's	1	N.D.
		(Chlorofluorocarbons)]		
Chloroftuorocarbon-216(CA5 No:001652-80-8)	ppm	Analysis was performed by CC/MS. [CFC's	1	N.D.
		(Chlorofluorocarbons)]		
Chlorofluorocarbon 217(CAS	ppm.	Analysis was performed by	1	N.D.
Na:000422-86-6)		C.C/MS. [CFC's		
		(Chlorofluorocarbons)]		

Dent House to	11	Method		Result
Test Item (s):	Unit	Method	MDL	No.1
Chlorinated Paraffin (C10~C13) (CAS NO:010871 26-2)		With reference to USEPA3540C or USEPA3550C. Analysis was performed by GC/MS or GC/ECD.	0.01	N.D.

Test Item (s):	Unit	Method	MDL	Result
rest item (s):	one Method	ырс	No. I	
Formsidehyde(CAS No:000050 00 0)	1	With reference to DIN 53315 & USBFA 8315/L Analysis was performed by HPLC/DAD/MS	0.2	N.D.

Test Item (s):	Unit	Method	мпъ	Result No.1
Halon		With reference to US EPA 8260.		11012
Halon-1211	ppm	Analysis was performed by GC/MS. [CifC's [Chloroduotocorbons]]	1	N.D.
Halon-1301	hhur	Analysis was performed by GC/MS. [CFC's [Chlorofluorocarbons]]	1	N.D.
Halon-2402	ppm	Analysis was performed by GC/MS. [CEC's [Chlorofluorocarbons)]	1	N.D.

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Test Item (s):				Result
Test Item (s):	Unit	Method	MDL	No.1
HCPC's(Hydrogenated chierofluorocarkons)		With reference to US EPA 8260.		
Hydrochlorofluorocarbon- 21(CAS No.:000075-43-4)	ppm	Analysis was performed by GC/MS. [HCDC's (Hydrogenated chlorofluorocarbons)]	ı	N.D.
Hydrochlorofluorocarbon- 22(CAS No.:000075 45 6)	bbw	Analysis was performed by GC/MS, [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 31(CAS No.:000593-70-4)	hlan	Analysis was performed by CC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon 121(CAS No.:000354-14-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochiorofluorocarbon- 122(CAS No.:000354-21-2)	bbw	Analysis was performed by GC/MS, [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 123(CAS No.:000306-83-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon 124(CAS No.:002837-89-0)	bbw	Analysis was performed by CC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 131(CAS No.:000359-28-4)	blom	Analysis was performed by GC/MS. [HCI/C's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- L31b(CAS No.:000471-43-2]	hlan	Analysis was performed by CC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.

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			MDL	Result
Test Item (s):	Unit	Method	MDL	No.1
Hydrochlorottuorocarbon- 133a(CAS No.:000075 88 7)	ppm	Analysis was performed by CC/MS. [HCPC's	1	N.D.
		[Hydrogenated chlorofluorocarbons)]		
Hydrochlorofluorocarbon 141b(CAS No.:001717-00-6)	ppm	Analysis was performed by GC/MS. [HCRC's	1	N.D.
		(Hydrogenaled chlorofluorocarbons)[
Hydrochiorofluorocarbon- 221	ppm	Analysis was performed by GC/MS. [HCFC's [Hydrogenated chlorofluorocarbons]]	1	N.D.
Hydrochlorofluorocarbon 222(CAS No.:000422-30-0)	ppm	Analysis was performed by GC/MS. [HCFC's [Hydrogenated chloroflaprocarbons)]	1	N.D.
Hydrochlorofluorocarbon 223	ppm	Analysis was performed by GC/MS. [HCPC's [Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorolluorocarbon- 224	hhur	Analysis was performed by GC/MS. [HCFC's [Hydrogenated chlorofluorocarbonsi]	1	N.D.
Hydrochlorofluorocarbon- 225ca(CAS No.:000422-56- 0)	phu	Analysis was performed by GC/MS. [HCPC s [Hydrogenated chlorofluorocarbons]]	1	N.D.
Hydrochloroffuorocarbon- 22hcb(CAS No.:000b07-bb- 1)	bhm	Analysis was performed by GC/MS. [HCMC]s [Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 226(CAS No.:000401-87-8)	hhur	Analysis was performed by GC/MS. [HCPC's [Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon 231	ppm	Analysis was performed by GC/MS. [HCFC's [Hydrogenated chlorofluorocarbons]]	1	N.D.

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				Result
Test Item (s):	Unit	Method	MDL	No.1
Hydrochlorofluorocarbon- 232	ppm	Analysis was performed by GC/MS. [HCFC's	1	N.D.
		(Hydrogenated		
		chlorofluorocarbons)]		
Hydrochlorofluorocarbon- 233	hbm	Analysis was performed by GC/MS. [HCFC's	1	N.D.
		(Hydrogenated chlorofluorecarbons)]		
Hydrochlorofluorocarbon- 234	ppm	Analysis was performed by GC/MS, [HCFC's (Hydrogenated	1	N.D.
		chlorofluorocarbons)]		
Hydrochlorofluorocarbon- 235(CAS No.:015836-16-9)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated	1	N.D.
Hydrochlorofluorocarbon-		chlorofluorocarbons)]		N.D.
211	hban	Analysis was performed by CC/MS, [HCFC's (Hydrogenated	1	N.D.
		chlorofluorocarbons)]		
Hydrochlorothuorocarbon- 242	ppm	Analysis was performed by GC/MS, [HCIC's	1	N.D.
		(Hydrogenated chlorofluorecarbons)]		
Hydrochlorofluorocarbon- 243(CAS No.:000338-75-0)	hban	Analysis was performed by GC/MS, [HCFC's	1	N.D.
		(Hydrogenated		
Hydrochlerefluorecarbon 214	ppm	chlorofluorocarbons)] Analysis was performed by CC/MS, [HCFC's	1	N.D.
		(Hydrogenated chlorofluorocarbons)]		
Hydrochlorofluorocarbon- 251	ppm	Analysis was performed by GC/MB. [HCFC's	1	N.D.
		(Hydrogenated chlorofluorocarbons)		
Hydrochlorofluorecarbon 252	bbw	Analysis was performed by CC/MS, [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.

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Test Item (s):	Unit	Method	MDL	Result
rest trem (s):	171111	WIET HOSE	MILIT	No. 1
Hydrochlorofluorocarbon- 253(CAS No.:000354-06-1)	ppm	Analysis was performed by GC/MS. [HCFC's [Hydrogenated chlorofluorocarbons]]	1	N.D.
Hydrochloroffuerocarbon 261 (CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS. [HCTC's (Hydrogenated chlorofluorocarbons)	1	N.D.
Hydrochloroffuorocarbon- 262(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS. [HCl/Cls (Hydrogenated chloroflyogeachons)]	1	N.D.
Hydrochloroffuorocarbon- 271	ррт	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.

Total Itami Jak	Unit	Method	MDL	Result
Test Item (s):	Unit	Method	MDL	No.1
1,1,1-trichoroethane		With reference to US EPA 8260. Analysis was performed by CC/MS.	1	N.D.

Foot Many John	Unit	Method	MDL	Result
Test Item (s):	Date	MIETTON	MIDIO	No.1
Carbon tetrachloride		With reference to US EPA 8260. Analysis was performed by GC/MS/HEADSPACE.	1	N.D.

There I have been	11	Method	MDL	Result
Test Item (s):	Unit Method	MDL	No. I	
Organic tin coumpounds				
Tripheny1 Tin(TPT)(CAS NO:000668-34-8)	hhu	With reference to 89/677/IEEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	N.D.
Tributyl Tin(TBT)	bbm	With reference to 89/677/EBC & DIN 38407. Analysis was performed by GC/FPD.	0.03	N.D.

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Total Income (ed.)	TTurks	Months d	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
PCBs(Folychlorinated Baphenyla)(CAS NO:001336 56-3)		With reference to USEPA 8082A. Analysis was performed by GC/MS or GC/ECD.	0.5	N.D.

				Result
Test Item (s):	Unit	Method	MDL	No.1
Polychlorinated Naphthalene		With reference to USEPA 8081B, Analysis was performed by GC/MS.	5	N.D.

Test Item (s):	Unit	Method	MDL	Result
rest rem (s):	Unit	Method	MUL	No.1
PCTs(Polychlorinated		Analysis was performed by	0.5	N.D.
Terphenyls)		GC/MS or GC/ECD.		

Took Incom John	Truis	Nethod	MDL	Result
Test Item (s):	Unit	Mernod	NIT/L	No.1
Monobromobiphonyl	96		0.0005	N.D.
Dibromobiphenyl	%	With reference to	0.0005	N.D.
Tribromobiphenyl	96		0.0005	N.D.
Tetrabromobiphenyl	96		0.0005	N.D.
Pentabromobiphenyl	96	USEPA0540C or	0.0005	N.D.
Hexabromobiphenyl	96	USEPA0550C. Analysis was performed by HPLC/DAD. LC/MS or GC/MS. (prohibited by 2002/95/EC (RollS), 83/264/EEC, and 76/759/EEC)	0.0005	N.D.
Heptakromokiphenyl	9%		0.0005	N.D.
Octabromobiphenyl	*N:		0.0005	N.D.
Nonabromobiphenyl	%		0.0005	N.D.
Decabromobiphenyl	96		0.0005	N.D.
Total PBBs	96	1		N.D.
(Polybrominated	l			
biphenyls)/Sum of above	I	1		

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	**		MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
Monobromobiphenyl ether	%		0.0005	N.D.
Dibromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC	0.0005	N.D.
Tribromobiphenyl ether	%		0.0005	N.D.
Tetrabromobiphenyl ether	%		0.0005	N.D.
Pentabromobiphenyl ether	%		0.0005	N.D.
Hexabromobiphenyl ether	%		0.0005	N.D.
Heptabromobiphenyl ether	%		0.0005	N.D.
Octabromobiphenyl ether	%		0.0005	N.D.
Nonabromobiphenyl ether	%	(RoHS), 83/264/EEC, and	0.0005	N.D.
Decabromobiphenyl ether	%	76/769/EEC)	0.0005	N.D.
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%			N.D.

Test Item (s):	Unit	Method	MDL	Result No.1
Halogen-Chlorine (Cl)(CAS No:007782-50-5)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	N.D.
Halogen-Fluorine (F)(CAS No:007782-41-4)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	N.D.
Halogen-Bromine (Br)(CAS No:007726-95-6)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	N.D.

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Test Item (s):	FF . 14	Method	MDL	Result
	Unit			No. I
Halogen-Iodine (I)(CAS No:007553-55-2)	bhw	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	N.D.

Test Item (s):	Unit	Method	MOL	Result No. (
PVC (CAS No:9002-86-2)		Analysis was performed by FTIR/ATR and Pyrolyser- GC/MS.		Negative

Test Item (sj:		Method	MDL	Result
	Unit			No.1
Chromium VI (Cr16)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmnum (Cd)	bhau	ICF-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	bbw	ICP ABS after reference to US EPA 3052 or other acid digestion.	2	N.D.
Load (Pb]	hhiu	ICP ABS after reference to US EPA 3050B or other acid digestion.	2	N.D.

NOTE: (1) N.D. - Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

(4) " - " - No Regulation

(5) * --- " - Not Applicable
(6) * - Results shown are of the adjusted analytical results.

(7) ** = Qualitative analysis (No Unit)

(8) Negative - Undetectable / Positive - Detectable

(9) The MDL is 5ppm for the single compound of CP

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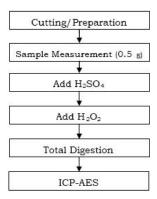
Test Report

HOPE DISTRIBUTION INC. 10F, NO. 111, SEC. 1, KEELUNG RD., TAIPEI, TAIWAN

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These samples were dissolved totally by pre-conditioning method according to below flow chart.

Flow Chart of Digestion for Plastic - EN1122 for Cd (without residue)



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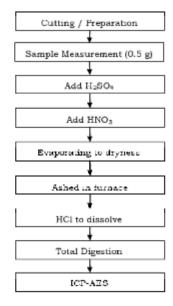
Test Report

HOPE DISTRIBUTION INC. 10F, NO. 111, SEC. 1, KEELUNG RD., TAIPEI, TAIWAN

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These samples were dissolved totally by pre-conditioning method according to below flow chart.

Flow Chart of Digestion for Plastic -Wet Decomposition for Pb (without residue)



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SGS Report of Mylar



Test Report

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