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CNAS L1747

广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

分 析 检 测 报 告

REPORT FOR ANALYSIS

报 告 编 号 **Report №.**	2020SP2438R01D
样 品 名 称 **Name of Sample**	紫外线杀菌盒 UV Sanitizer
委 托 单 位 **Applicant**	
检 测 类 型 **Test Type**	委托检测 Entrustment Test

单位地址： 广州市先烈中路 100 号大院 66 号楼
Address: Building 66, No.100 Central Xianlie Road, Guangzhou, China
邮政编码： 510070
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广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

分 析 检 测 报 告

REPORT FOR ANALYSIS

报告编号（Report №.）2020SP2438R01D 校验码（Verification Code）：53728146

样品名称 Name of Sample	紫外线杀菌盒 UV Sanitizer	检测类型 Test Type	委托检测 Entrustment Test
委托单位 Applicant		地　址 Address	
样品来源 Sample Source	委托方送检 Submitted for Testing by the Applicant	样品数量 Sample Quantity	1 台 One
样品规格和批号 Spec and Lot № of Sample		样品状态和特性 State and Characteristic	机器 Machine
接样日期 Sample Received Date	2020-04-07	检测完成日期 Completion Date	2020-04-10
检测依据和方法 Test Standard and Method	《消毒技术规范》（卫生部 2002 年版）第二部分-2.1.5.5 Technical Standard for Disinfection(Ministry of Health, Edition 2002), section 2-2.1.5.5		
检测项目 Item Tested	灭菌与消毒器械消毒功效鉴定试验：紫外线消毒箱 Sterilization and disinfection equipment disinfection efficacy test: Ultraviolet disinfection box		
检测结论 Test Conclusion	送检样品所检项目的实测数据见本检测报告续页。 The test data of the sample(s) is attached to the page(s) of this report. 签发日期：2020-04-16 Issue Date （机构盖章 Official Seal）		
备注 Remarks			

制　表：　　审　核：　　批　准：
Editor　　Verifier　　Approver

广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

分 析 检 测 结 果

ANALYSIS AND TEST RESULT

报告编号（Report №.）：2020SP2438R01D

1. 作用位置 Action position： 送检样品内中间位置 Middle position in the sample.

2. 作用时间 Action time： 5min

3. 测试结果 Results：

测试菌株 Test organisms	试验组别 Test group	试验组平均菌落数 Average cfu of testing groups（cfu/片 piece）	对照组平均菌落数 Average cfu of positive controls（cfu/片 piece）	杀灭率 Sterilization rate（%）	杀灭对数值 Sterilization logarithm（KL）
大肠杆菌（*Escherichia coli*）8099	1	＜5	2.0×10^{6}	＞99.99	＞5.58
	2	＜5	1.8×10^{6}	＞99.99	＞5.58
	3	＜5	1.9×10^{6}	＞99.99	＞5.58
	平均值 Average		1.9×10^{6}	＞99.99	＞5.58
金黄色葡萄球菌（*Staphylococcus aureus*）ATCC 6538	1	＜5	4.0×10^{6}	＞99.99	＞5.90
	2	＜5	4.0×10^{6}	＞99.99	＞5.90
	3	＜5	4.1×10^{6}	＞99.99	＞5.90
	平均值 Average		4.0×10^{6}	＞99.99	＞5.90
白色念珠菌（*Candida albicans*）ATCC 10231	1	3.9×10^{2}	1.2×10^{6}	99.97	3.50
	2	4.1×10^{2}	1.2×10^{6}	99.97	3.48
	3	4.2×10^{2}	1.3×10^{6}	99.97	3.47
	平均值 Average		1.2×10^{6}	99.97	3.48

样品照片：

（以下空白，Blank below）

报告编号（Report №.）：2020SP2438R01D

注意事项
Notice Items

1. 检测报告无本单位检验检测专用章、骑缝章无效。

   The Test report is invalid if not affixed with Authorized Stamp of Test and Paging Seal.

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   The Test report is invalid without signature of verifier and approver.

3. 检测报告涂改增删无效。

   The Test report is invalid if being supplemented, deleted or altered.

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   Without prior written permission, the report cannot be reproduced, except in full.

5. 除非另有说明，本报告检验结果仅对来样负责。

   Unless otherwise stated, the results shown in this test report refer only to the sample(s) submitted.

6. 对检测报告有异议的，应于收到报告之日起十五日内提出，逾期不予受理。

   Any dispute of the report must be raised to the testing body within 15 days after the report is received, exceeding which the dispute will not be accepted。

7. 对送检样品，样品信息由委托方提供，本单位不对其真实性负责。

   For the tested sample(s) submitted by the applicant, the sample information in the test report is provided by the applicant and the laboratory is not responsible for its authenticity.

Certificate ◆ Сертификат ◆ 證書 ◆ Certificat ◆ 증명서 ◆ الشهادات

CERTIFICATE OF CONFORMITY

Registration No.: WST20N050133E
Technical Construction File No.: WST20N050133-1ER

Certificate's Holder:

Manufacturer:

Product:	UV Sterilizer Box
Model (S):	, 6650 (All models of PCB layout and key components are the same.)
Trade Mark:	N/A
Rating:	Input: DC 5V, 2A, 10W
Directives:	2014/30/EU
Standard(s):	EN 55014-1:2017 EN 55014-2:2015

Remark: This Certificate of Compliance has been issued on a voluntary basis. WST confirms that a Technical Construction File (TCF) is existent for the above listed product(s). The TCF satisfactorily covers the essential requirements of the above listed Directive(s).

Other relevant Directives have to be observed in case they are applicable.

This Document is only valid for the equipment and configuration described and in conjunction with the TCF detailed above. Whereas the Manufacturer is responsible of the certification of the product(s) and not exempted to perform all the necessary activities before placing the product(s) on the market.

The Manufacturer is also responsible of the internal production control to ensure the product(s) are in compliance with the essential requirements of the above mentioned Directive(s).

This certificate can be checked for validity at www.wstlab.com.

CE

Certification Manager

Date of issue: May 21, 2020

Shenzhen WST Testing Co., Ltd.
Address: 87 Guangshen Road, Baocheng 11st Zone, Xin'an Street, Bao'an, Shenzhen, Guangdong, China
Tel: +86 755 2782 2785 Fax: +86 755 2782 2175 E-mail: service@wstlab.com http://www.wstlab.com

CE-EMC

TEST REPORT

Test report
On Behalf of

For
UV Sterilizer Box
Model No.:
(Serial models see page 7)

Prepared for :

Prepared By : **Shenzhen WST Testing Co., Ltd.**
87 Guangshen Road, Baocheng 11st Zone, Xin'an Street, Bao'an, Shenzhen, Guangdong, China

Date of Test: **May 14, 2020 ~ May 21, 2020**
Date of Report: **May 21, 2020**
Report Number: **WST20N050133-1ER**

TEST RESULT CERTIFICATION

Applicant's name ..... :

Address ..... :

Manufacturer's Name ..... :

Address ..... :

Product description

Product name..... : UV Sterilizer Box

Model and/or type reference : (Serial models see page 7)

Standards..... : EN 55014-1:2017
EN 55014-2:2015

This device described above has been tested by WST, and the test results show that the equipment under test (EUT) is in compliance with the 2014/30/EU requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of WST, this document may be altered or revised by WST, personal only, and shall be noted in the revision of the document.

Date of Test.....:

Date (s) of performance of tests.....: May 14, 2020 ~ May 21, 2020

Date of Issue.....: May 21, 2020

Test Result.....: **Pass**

Testing Engineer : Sam Tan

(Sam Tan)

Technical Manager : Fanny zhang

(Fanny Zhang)

Authorized Signatory : Michael Ling

(Michael Ling)

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
EN 55014-1	Conducted Emission	Class B	N/A	
	Radiated Emission	Class B	PASS	
EN61000-3-2	Harmonic Current Emission	Class A or D NOTE (2)	N/A	
EN 61000-3-3	Voltage Fluctuations & Flicker	------	N/A	
EMC Immunity				
Section EN55014-2	Test Item	Performance Criteria	Judgment	Remark
EN 61000-4-2	Electrostatic Discharge	B	PASS	
EN 61000-4-3	RF electromagnetic field	A	PASS	
EN 61000-4-4	Fast transients	B	N/A	
EN 61000-4-5	Surges	B	N/A	
EN 61000-4-6	Injected Current	A	N/A	
EN 61000-4-8	Power Frequency Magnetic Field	A	N/A	
EN 61000-4-11	Volt. Interruptions Volt. Dips	C / C / C **NOTE (3)**	N/A	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

(2) Voltage dip: 0% reduction – Performance Criteria **C**

Voltage dip: 30% reduction – Performance Criteria **C**

Voltage dip: 60% reduction – Performance Criteria **C**

(3) For client's request and manual description, the test will not be executed.

1.1 TEST FACILITY

Shenzhen WST Testing Co., Ltd.
Address: 87 Guangshen Road, Baocheng 11st Zone, Xin'an Street, Bao'an, Shenzhen, Guangdong, China

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U** , where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2** , providing a level of confidence of approximately **95** %。

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
WSTC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
WSTA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~6GHz	5.0	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	UV Sterilizer Box
Model Name	
Serial No	6650
Model Difference	All models of PCB layout and key components are the same.
Product Description	The EUT is a UV Sterilizer Box. Operating frequency: N/A Connecting I/O port: DC Voltage Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as a household electrical appliances Device. More details of EUT technical specification, please refer to the User's Manual.
Power Source	DC Voltage
Power Rating	Input: DC 5V, 2A, 10W

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Running

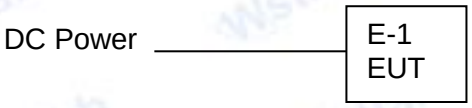
For Conducted Test	
Final Test Mode	Description
Mode 1	N/A

For Radiated Test	
Final Test Mode	Description
Mode 1	Running

For EMS Test	
Final Test Mode	Description
Mode 1	Running

2.3 DESCRIPTION OF TEST SETUP

Mode 1:



2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	UV Sterilizer Box	N/A	AP-267	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

(3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.5 MEASUREMENT INSTRUMENTS LIST

2.5.1 CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101313	Jul. 06, 2020
2	LISN	EMCO	3816/2	00042990	Jul. 06, 2020
3	50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jul. 06, 2020
4	Test Cable	N/A	C01	N/A	Jul. 06, 2020
5	Test Cable	N/A	C02	N/A	Jul. 06, 2020
6	Test Cable	N/A	C03	N/A	Jul. 06, 2020
7	EMI Test Receiver	R&S	ESCI	101160	Jul. 06, 2020
8	Passive Voltage Probe	ESH2-Z3	R&S	100196	Jul. 06, 2020
9	Triple-Loop Antenna	EVERFINE	LIA-2	11020003	Jul. 06, 2020
10	Absorbing Clamp	R&S	MDS-21	100423	Jul. 08, 2020

2.5.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06, 2020
2	Test Cable	N/A	R-01	N/A	Jul. 06, 2020
3	Test Cable	N/A	R-02	N/A	Jul. 06, 2020
4	EMI Test Receiver	R&S	ESCI-7	101318	Jul. 06, 2020
5	Antenna Mast	EM	SC100_1	N/A	N/A
6	Turn Table	EM	SC100	060531	N/A
7	50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 06, 2020
8	Spectrum Analyzer	Aglient	E4407B	MY45108040	Jul. 06, 2020
9	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06, 2020
10	Amplifier	EM	EM-30180	060538	Jul. 06, 2020

2.5.3 HARMONICS AND FILCK

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Harmonic & Flicker	EM TEST	DPA500	0303-04	Jul. 06, 2020
2	AC Power Source	EM TEST	ACS500	0203-01	Jul. 06, 2020

2.5.4 ESD

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	ESD TEST GENERATOR	EVERFINE	EMS61000-2A-V200	11040001T	Jul. 06, 2020

2.5.5 RS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Signal Generator	R&S	SMT 06	832080/007	Jul. 24, 2020
2	Log-Bicon Antenna	Schwarzbeck	VULB9161	4022	Aug. 15, 2020
3	Power Amplifier	AR	150W1000M1	320946	Sep. 23, 2020
4	Microwave Horn Antenna	AR	AT4002A	321467	Jun. 11, 2020
5	Power Amplifier	AR	25S1G4A	308598	Sep. 23, 2020

2.5.6 SURGE, EFT/BURST, VOLTAGE INTERRUPTION/DIPS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Surge Generator	EVERFINE	EMS61000-5A	1101002	Jul. 06, 2020
2	DIPS Generator	EVERFINE	EMS61000-11K	1011002	Jul. 06, 2020
	EFT/B Generator	EVERFINE	EMS61000-4A-V2	1012005	Aug. 04, 2020

2.5.7 INJECTION CURRENT

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Signal Generator	IFR	2023A	202301/368	Mar. 31, 2020
2	Power Amplifier	AR	75A250AM1	0320709	Sep. 23, 2020
3	CDN	FCC	FCC-801-M2	06043	Jun. 02, 2020
4	EM Clamp	FCC	F-203I-23MM	504	Jun. 09, 2020

2.4.8 MF

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Generator	EVERFINE	EMS61000-8K	1007001	Jul. 06, 2020

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

Frequency Range (MHz)	At mains terminals		At load terminals and additional terminals	
	Quasi-peak (dBuV)	Average (dBuV)	Quasi-peak (dBuV)	Average (dBuV)
0.15 -0.5	66 - 56 *	56 - 46 *	80.00	70.00
0.50 -5.0	56.00	46.00	74.00	64.00
5.0 -30.0	60.00	50.00	74.00	64.00

3.1.2 MAINS TERMINALS OF TOOLS

Frequency Range	Rated motor power not exceeding 700W		Rated motor power above 700W and not exceeding1 000 W		Rated motor power above 1 000 W	
(MHz)	dB (uV) Quasi-peak	dB (uV) Average**	dB (uV) Quasi-peak	dB (uV) Average**	dB (uV) Quasi-peak	dB (uV) Average**
0.15 -0.5	66.0 to 59.0*	59.0 to 49.0*	70.0 to 63.0*	63.0 to 53.0*	76.0 to 69.0*	69.0 to 59.0*
0.50 -5.0	59.0	49.0	63.0	53.0	69.0	59.0
5.0 -30.0	64.0	54.0	68.0	58.0	74.0	64.0

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

(3) "**" If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the measurement using the receiver with an average detector need not be carried out.

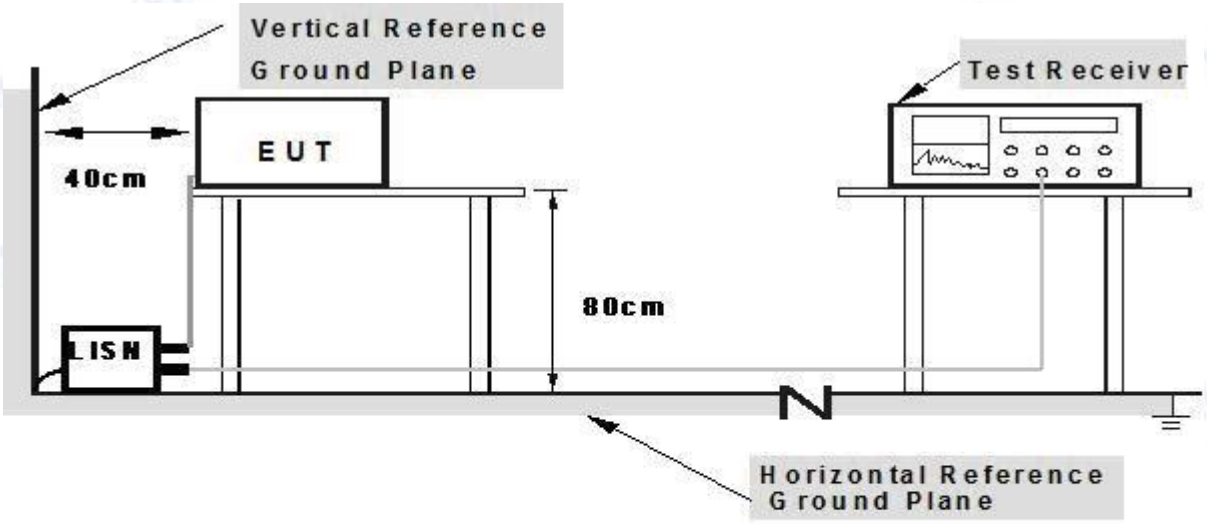
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.3 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.1.6 TEST RESULTS

EUT：	UV Sterilizer Box	Model Name. ：	
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Test Date：	N/A
Test Mode：	N/A	Phase：	N/A
Test Voltage ：	N/A		

Note:

1)N/A-denotes test is not applicable in this test report.

2)There was not any unintentional transmission in standby mode.

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

FREQUENCY (MHz)	At 10m	At 3m
	dBuV/m	dBuV/m
30 – 230	30	40
230 – 1000	37	47

3.2.2 LIMITS OF DISTURBANCE POWER MEASUREMENT (Below 1000MHz)

	Household and similar appliances		Tools			
Frequency Range			Rated motor power not exceeding 700 W		Rated motor power above 700 W and not exceeding 1 000 W	
(MHz)	dB (pW) Quasi-peak	dB (pW) Averag*	dB (pW) Quasi-peak	dB (pW) Averag*	dB (pW) Quasi-peak	dB (pW) Averag*
30-300	44-55	35-45	44-55	35-45	49-59	39-49

Notes:

(1) The limit for radiated test was performed according to as following: CISPR 14.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.3 TEST PROCEDURE

a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

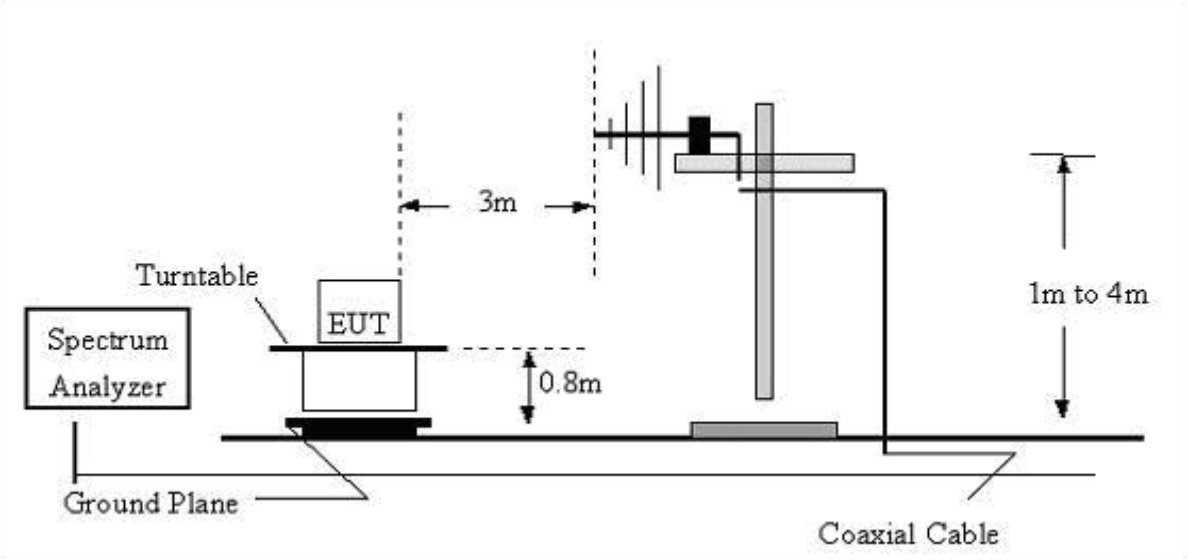
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.

e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.

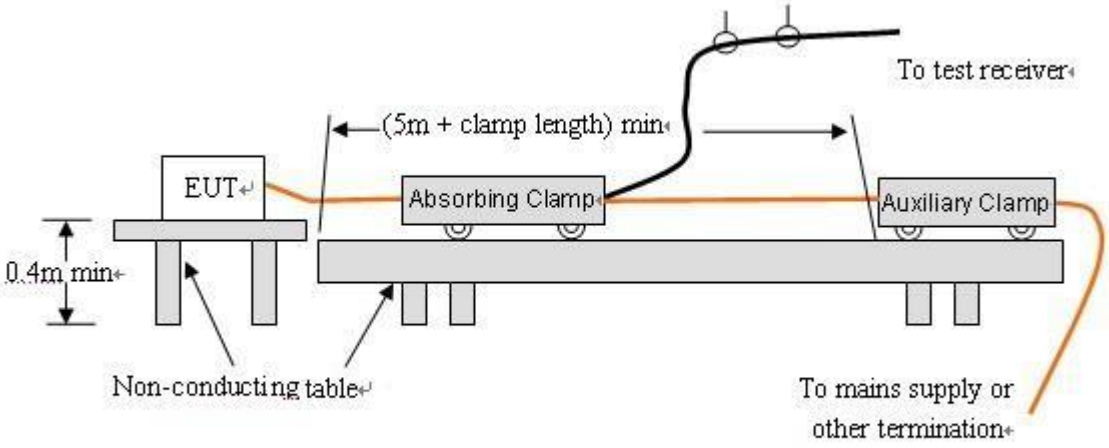
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Disturbance Power Test Set-UP Frequency Below 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS

EUT :	UV Sterilizer Box	Model Name ：	
Temperature :	24 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2020-05-18
Test Mode :	Running	Polarization :	Horizontal
Test Power :	DC 5V		

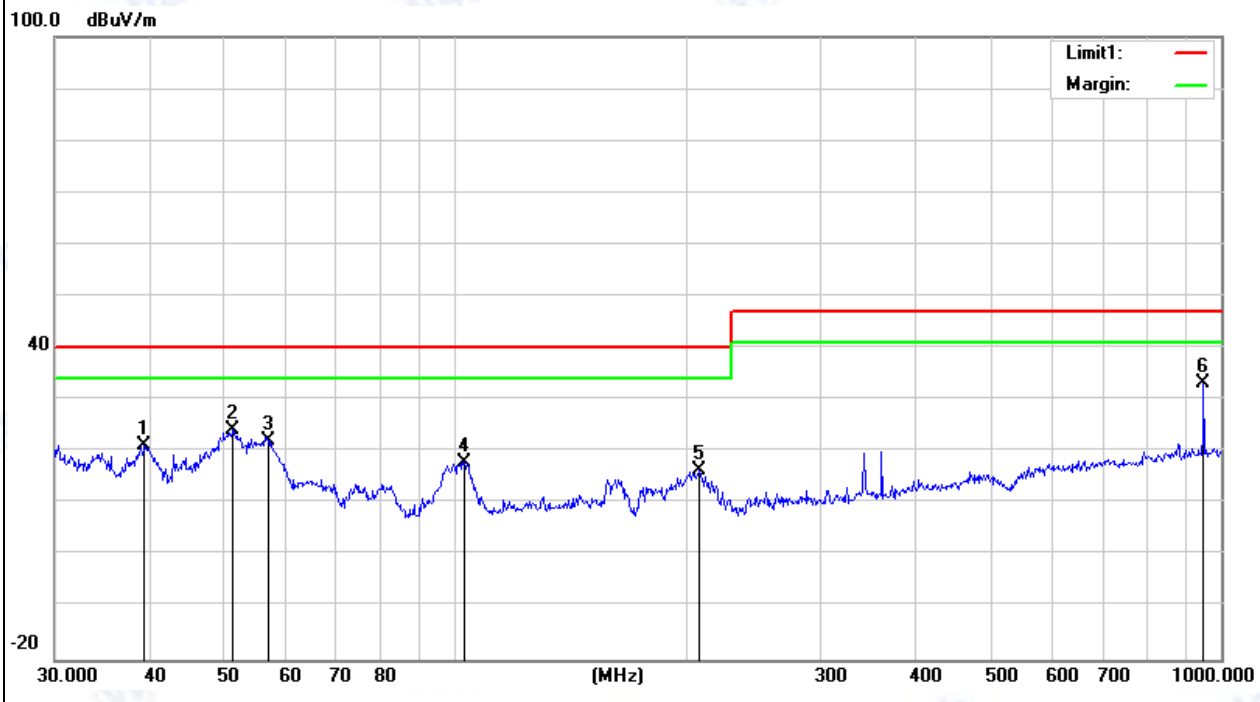
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	948.7610	37.11	-6.15	30.96	47.00	-16.04			peak
2	207.8501	31.13	-17.51	13.62	40.00	-26.38			peak
3	102.7192	31.98	-18.56	13.42	40.00	-26.58			peak
4	50.4089	38.10	-20.64	17.46	40.00	-22.54			peak
5	43.3534	32.28	-17.19	15.09	40.00	-24.91			peak
6	30.3173	25.82	-7.40	18.42	40.00	-21.58			peak

Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Antenna Factor + Cable Loss.
3. N/A means All Data have pass Limit

EUT :	UV Sterilizer Box	Model Name :	
Temperature :	24 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2020-05-18
Test Mode :	Running	Polarization :	Vertical
Test Power :	DC 5V		

No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	39.2991	35.52	-14.25	21.27	40.00	-18.73			peak
2	51.3005	45.03	-20.75	24.28	40.00	-15.72			peak
3	56.9912	43.53	-21.42	22.11	40.00	-17.89			peak
4	102.7192	36.51	-18.56	17.95	40.00	-22.05			peak
5	208.5803	34.10	-17.54	16.56	40.00	-23.44			peak
6*	948.7610	39.35	-6.15	33.20	47.00	-13.80			peak

Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Antenna Factor + Cable Loss.
3. N/A means All Data have pass Limit



3.3 HARMONICS CURRENT

3.3.1 LIMITS OF HARMONICS CURRENT

IEC 555-2					
Table - I			Table - II		
Equipment Category	Harmonic Order n	Max. Permissible Harmonic Current (in Ampers)	Equipment Category	Harmonic Order n	Max. Permissible Harmonic Current (in Ampers)
Non Portable Tools or TV Receivers	Odd Harmonics		TV Receivers	Odd Harmonics	
	3	2.30		3	0.80
	5	1.14		5	0.60
	7	0.77		7	0.45
	9	0.40		9	0.30
	11	0.33		11	0.17
	13	0.21		13	0.12
	15≤n≤39	0.15 · 15/n		15≤n≤39	0.10 · 15/n
	Even Harmonics			Even Harmonics	
	2	1.08		2	0.30
	4	0.43		4	0.15
	8	0.30			
	8≤n≤40	0.23 · 8/n		DC	0.05

EN 61000-3-2/IEC 61000-3-2					
Equipment Category	Max. Permissible Harmonic Current (in Ampers)	Equipment Category	Harmonic Order n	Max. Permissible Harmonic Current (in A)	(mA/w)
Class A	Same as Limits Specified in 4-2.1, Table - I, but only odd harmonics required	Class D	3	2.30	3.4
			5	1.14	1.9
			7	0.77	1.0
			9	0.40	0.5
			11	0.33	0.35
			13≤n≤39	see Table I	3.85/n
			only odd harmonics required		

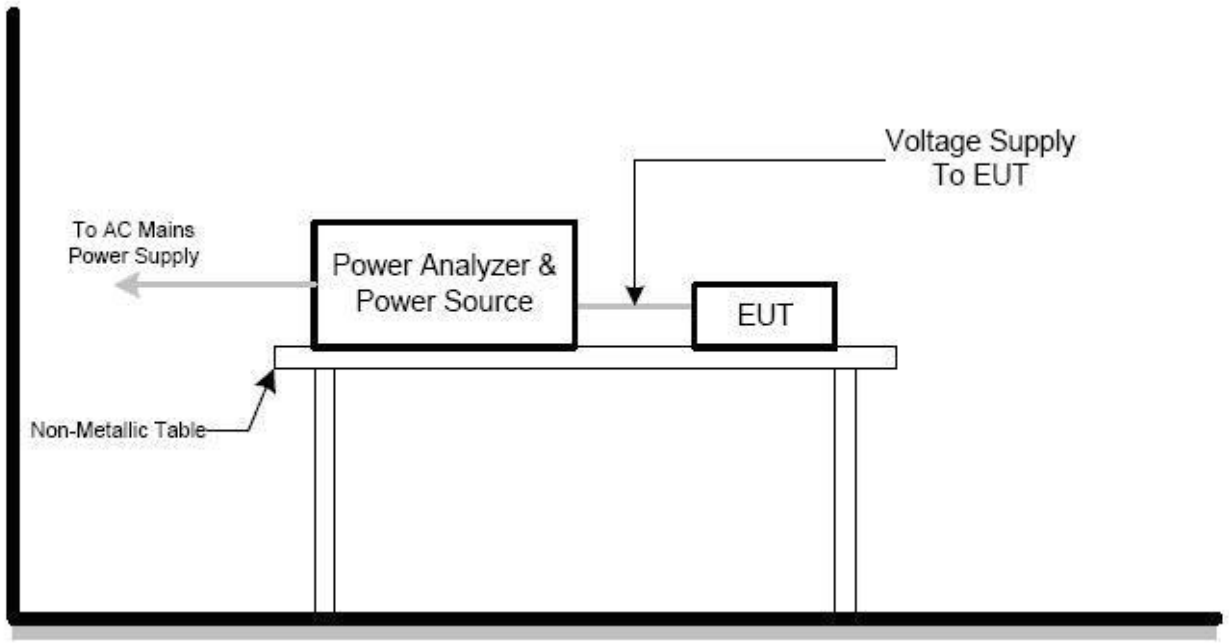
3.3.1.1TEST PROCEDURE

a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.
b. The classification of EUT is according to section 5 of EN 61000-3-2. The EUT is classified as follows:
Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.
Class B: Portable tools. Portable tools.; Arc welding equipment which is not professional equipment.
Class C: Lighting equipment.
Class D: Equipment having a specified power less than or equal to600 W of the following types: Personal computers and personal computer monitors and television receivers.
c. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.

3.3.1.2 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.3.1.3 TEST SETUP



3.3.2 TEST RESULTS

EUT：	UV Sterilizer Box	Model Name ：	
Temperature：	25 ℃	Relative Humidity：	45%
Pressure：	1010 hPa	Test Date：	N/A
Test Mode ：	N/A		
Test Power ：	N/A		

Note:

1)N/A-denotes test is not applicable in this test report.

2)There was not any unintentional transmission in standby mode.

3.4 VOLTAGE FLUCTUATION AND FLICKERS

3.4.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKERS

Tests	Limits		Descriptions
	IEC555-3	IEC/EN 61000-3-3	
Pst	≤ 1.0, Tp= 10 min.	≤ 1.0, Tp= 10 min.	Short Term Flicker Indicator
Plt	N/A	≤ 0.65, Tp=2 hr.	Long Term Flicker Indicator
dc	≤ 3%	≤ 3.3%	Relative Steady-State V-Chang
dmax	≤ 4%	≤ 4%	Maximum Relative V-change
d (t)	N/A	≤ 3.3% for > 500 ms	Relative V-change characteristic

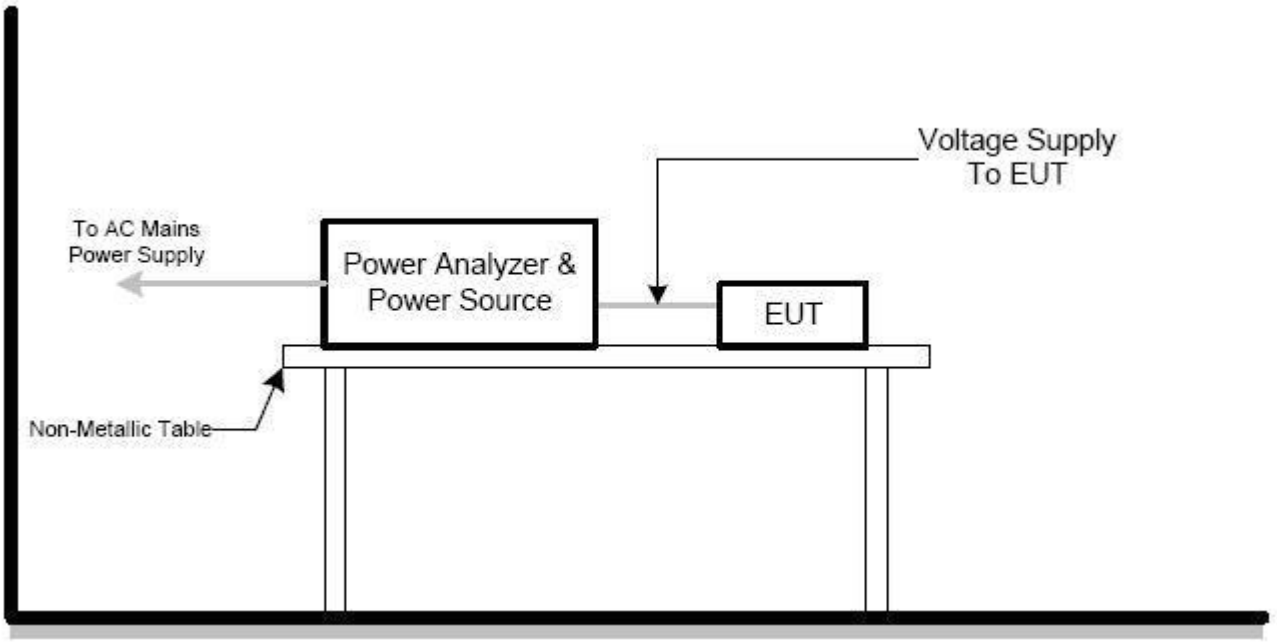
3.4.1.1TEST PROCEDURE

a. Harmonic Current Test:
Test was performed according to the procedures specified in Clause 5.0 of IEC555-2 and/or Sub-clause 6.2 of IEC/EN 61000-3-2 depend on which standard adopted for compliance measurement.
b. Fluctuation and Flickers Test:
Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 5.0/6.0 of IEC555-3 and/or Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.
c. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

3.4.1.2 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.4.1.3 TEST SETUP



3.4.2 TEST RESULTS

EUT：	UV Sterilizer Box	Model Name ：	
Temperature：	25 ℃	Relative Humidity：	45%
Pressure：	1010 hPa	Test Date：	N/A
Test Mode ：	N/A		
Test Power ：	N/A		

Note:

1)N/A-denotes test is not applicable in this test report.

2)There was not any unintentional transmission in standby mode.

4. EMC IMMUNITY TEST

4.1 STANDARD COMPLIANCE/SERVRITY LEVEL/CRITERIA

Tests Standard No.	TEST SPECIFICATION	Test Mode Test Ports	Perform. Criteria
1. ESD IEC/EN 61000-4-2	8KV air discharge 4KV contact discharge	Direct Mode	B
	4KV HCP discharge 4KV VCP discharge	Indirect Mode	B
2. RS IEC/EN 61000-4-3	80 MHz to 1000 MHz, 1000Hz, 80%, AM modulated	Enclosure	A
3. EFT/Burst IEC/EN 61000-4-4	5/50ns Tr/Th 5KHz Repetition Freq.	Power Supply Port	B
	5/50ns Tr/Th 5KHz Repetition Freq.	CTL/Signal Data Line Port	B
4. Surges IEC/EN 61000-4-5	1.2/50(8/20) Tr/Th us	L-N	B
	1.2/50(8/20) Tr/Th us	L-PE N-PE	B
5 Injected Current IEC/EN 61000-4-6	0.15 MHz to 80 MHz, 1000Hz 80%, AM Modulated 150Ω source impedance	CTL/Signal Port	A
	0.15 MHz to 80 MHz, 1000Hz 80%, AM Modulated 150Ω source impedance	AC Power Port	A
	0.15 MHz to 80 MHz, 1000Hz 80%, AM Modulated 150Ω source impedance	DC Power Port	A
6. Power Frequency Magnetic Field IEC/EN 61000-4-8	50 Hz,	Enclosure	A
7. Volt. Interruptions Volt. Dips IEC/EN 61000-4-11	Voltage dip 0% Voltage dip 30% Voltage dip 60%	AC Power Port	C C C

4.2 GENERAL PERFORMANCE CRITERIA

According to **EN 55014-2** standard, the general performance criteria as following:

Criterion A	The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
Criterion B	After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.
Criterion C	Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

4.3 GENERAL PERFORMANCE CRITERIA TEST SETUP

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

4.4 ESD TESTING

4.4.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-2
Discharge Impedance:	330 ohm / 150 pF
Required Performance	B
Discharge Voltage:	Air Discharge：2kV/4kV/8kV (Direct) Contact Discharge：2kV/4kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Air Discharge: min. 20 times at each test point Contact Discharge: min. 20 at each test point
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

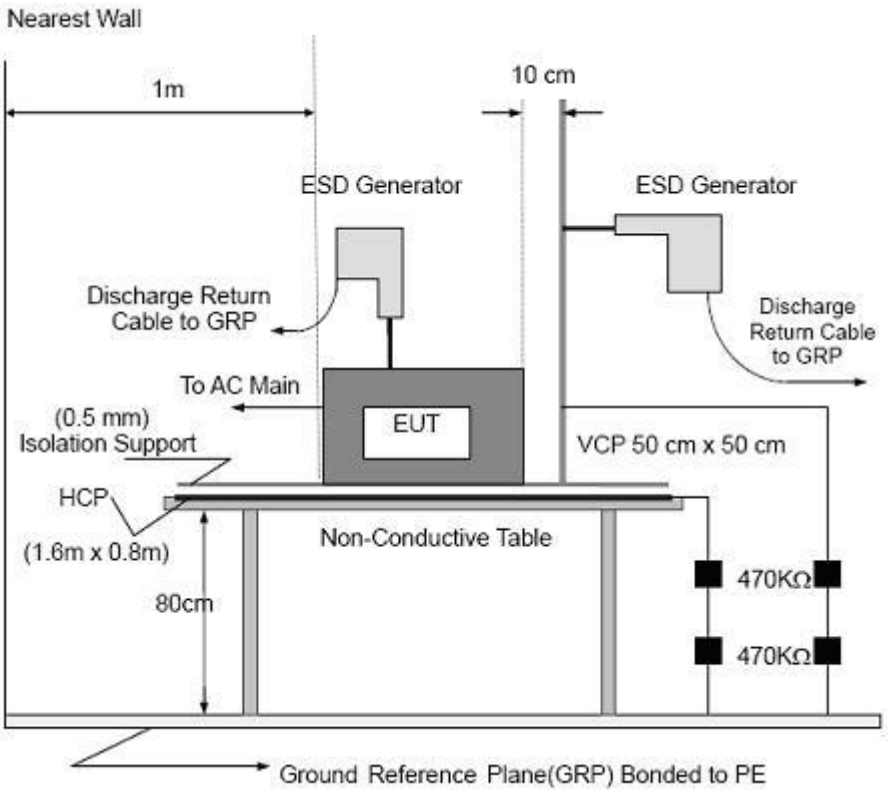
4.4.2 TEST PROCEDURE

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

a. Contact discharge was applied to conductive surfaces and coupling planes of the EUT. During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second. The EUT shall be exposed to at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points. One of the test points shall be subjected to at least 50 indirect discharges to the center of the front edge of the horizontal coupling plane. The remaining three test points shall each receive at least 50 direct contact discharges.
If no direct contact test points are available, then at least 200 indirect discharges shall be applied in the indirect mode. Test shall be performed at a maximum repetition rate of one discharge per second.
Vertical Coupling Plane (VCP):
The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge.
Horizontal Coupling Plane (HCP):
The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge.

b. Air discharges at insulation surfaces of the EUT.
It was at least ten single discharges with positive and negative at the same selected point.

4.4.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940k total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

FLOOR-STANDING EQUIPMENT

The equipment under test was installed in a representative system as described in section 7 of IEC/EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.

4.4.4 TEST RESULTS

EUT :	UV Sterilizer Box	Model Name :	
Temperature :	25 ℃	Relative Humidity :	45%
Pressure :	1010 hPa	Test Date :	2020-05-19
Test Mode :	Running		
Test Power :	DC 5V		

Mode	Air Discharge								Contact Discharge							
	2KV		4KV		8KV		12KV		2KV		4KV		6KV		8KV	
Location	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N
enclosure									A	A	A	A				
slit	A	A	A	A	A	A										
HCP									A	A	A	A				
VCP									A	A	A	A				
Criteria	**B**								**B**							
Result	**A**								**A**							
Judgment	**PASS**								**PASS**							

Note:

1) +/- denotes the Positive/Negative polarity of the output voltage.
2) Test condition:
   Direct / Indirect (HCP/VCP) discharges: Minimum 50 times (Positive/Negative) at each point. Air discharges: Minimum 10 times (Positive/Negative) at each point.
3) Test location(s) in which discharge (Air and contact discharge) to be applied illustrated by photos shown in next page(s)
4) The Indirect (HCP/VCP) discharges description of test point as following:
   1.left side 2.right side 3.front side 4.rear side
5) N/A - denotes test is not applicable in this test report

4.5 RS TESTING

4.5.1 TEST SPECIFICATION

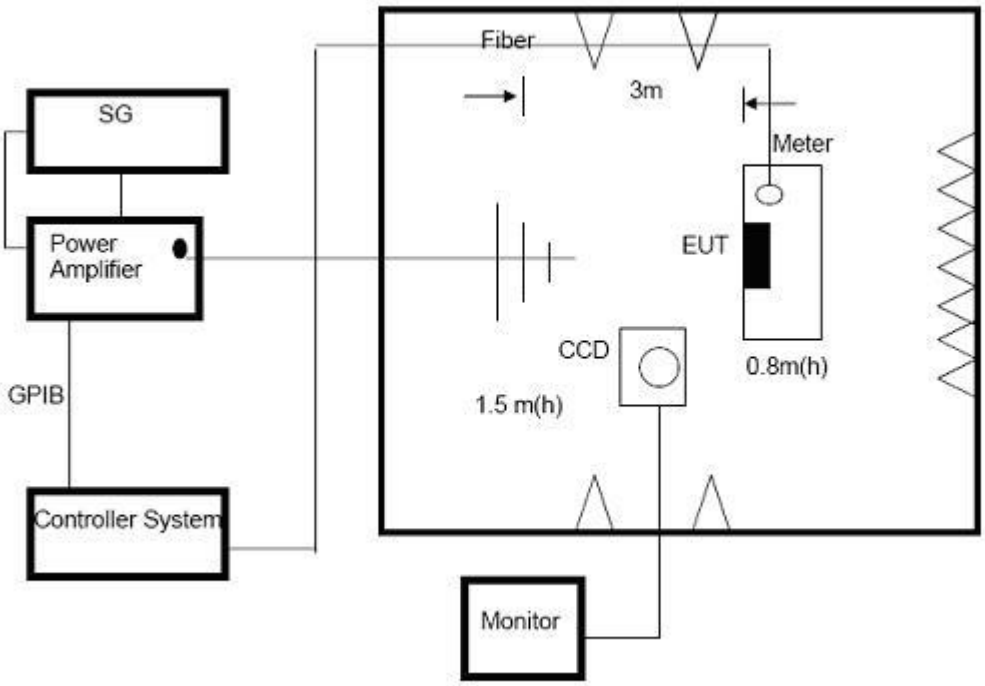
Basic Standard:	IEC/EN 61000-4-3
Required Performance	A
Frequency Range:	80 MHz - 1000 MHz
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m
Antenna Height:	1.5 m
Dwell Time:	at least 3 seconds

4.5.2 TEST PROCEDURE

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.
The testing distance from antenna to the EUT was 3 meters.
The other condition as following manner:

a. The frequency range is swept from 80 MHz to 1000 MHz, & 1400MHz - 2700MHz with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
b. Sweep Frequency 900 MHz, with the Duty Cycle:1/8 and Modulation: Pulse 217 Hz(if applicable)
c. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
d. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

4.5.3 TEST SETU



Note:

TABLE-TOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

4.5.4 TEST RESULTS

EUT :	UV Sterilizer Box	Model Name :	
Temperature :	25 ℃	Relative Humidity :	60%
Pressure :	1010 hPa	Test Date :	2020-05-19
Test Mode :	Running		
Test Power :	DC 5V		

Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Perform. Criteria	Results	Judgment
80MHz - 1000MHz	H / V	3 V/m (rms) AM Modulated 1000Hz, 80%	Front	**A**	**A**	**PASS**
			Rear			
			Left			
			Right			

Note:

1) N/A - denotes test is not applicable in this test report.
2) Criteria A: There was no change operated with initial operating during the test.
3) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
4) Criteria C: The system shut down during the test.

4.6 EFT/BURST TESTING

4.6.1 TEST SPECIFICATION

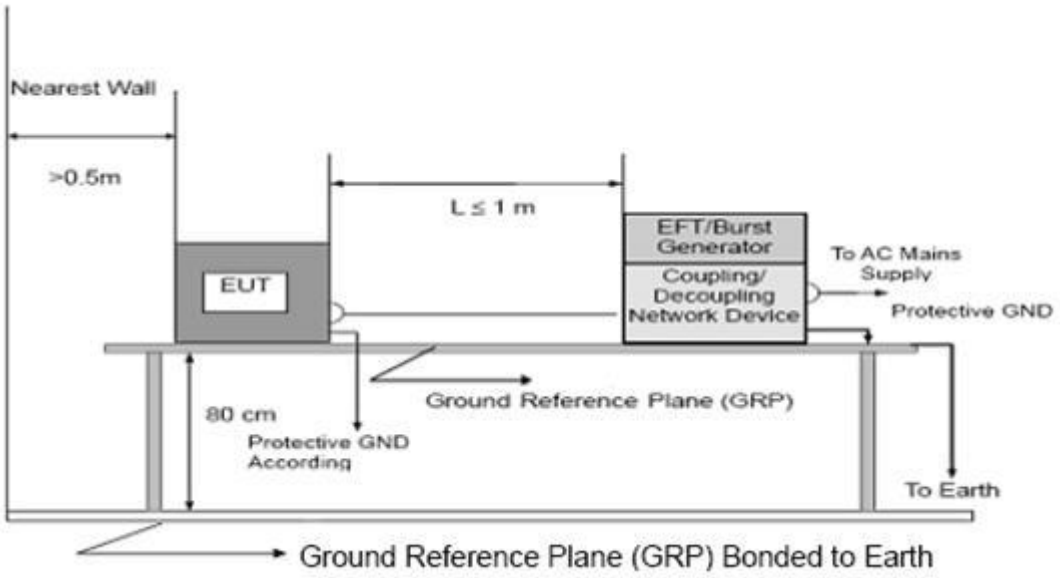
Basic Standard:	IEC/EN 61000-4-4
Required Performance	B
Test Voltage:	Power Line：1 kV Signal/Control Line：0.5 KV
Polarity:	Positive & Negative
Impulse Frequency:	5 kHz
Impulse Wave shape :	5/50 ns
Burst Duration:	15 ms
Burst Period:	300 ms
Test Duration:	Not less than 1 min.

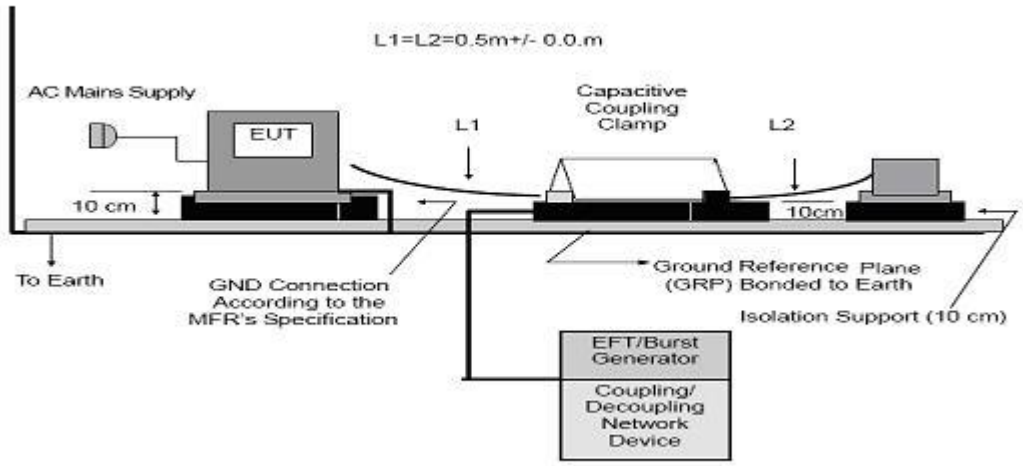
4.6.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.
The other condition as following manner:

a. The length of power cord between the coupling device and the EUT should not exceed 1 meter.
b. Both positive and negative polarity discharges were applied.
c. The duration time of each test sequential was 1 minute

4.6.3 TEST SETUP





Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.

4.6.4 TEST RESULTS

EUT：	UV Sterilizer Box	Model Name ：	
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1010 hPa	Test Date：	N/A
Test Mode ：	N/A		
Test Power ：	N/A		

Note:

1)N/A-denotes test is not applicable in this test report.

2)There was not any unintentional transmission in standby mode.

4.7 SURGE TESTING

4.7.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-5
Required Performance	B
Wave-Shape:	Combination Wave 1.2/50 us Open Circuit Voltage 8 /20 us Short Circuit Current
Test Voltage:	Power Line：0.5 kV, 1 kV, 2 kV
Surge Input/Output:	L-N, L-PE, N-PE
Generator Source:	2 ohm between networks
Impedance:	12 ohm between network and ground
Polarity:	Positive/Negative
Phase Angle:	0 /90/180/270°
Pulse Repetition Rate:	1 time / min. (maximum)
Number of Tests:	5 positive and 5 negative at selected points

4.7.2 TEST PROCEDURE

a. For EUT power supply:

The surge is to be applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks shall be 2meters in length (or shorter).

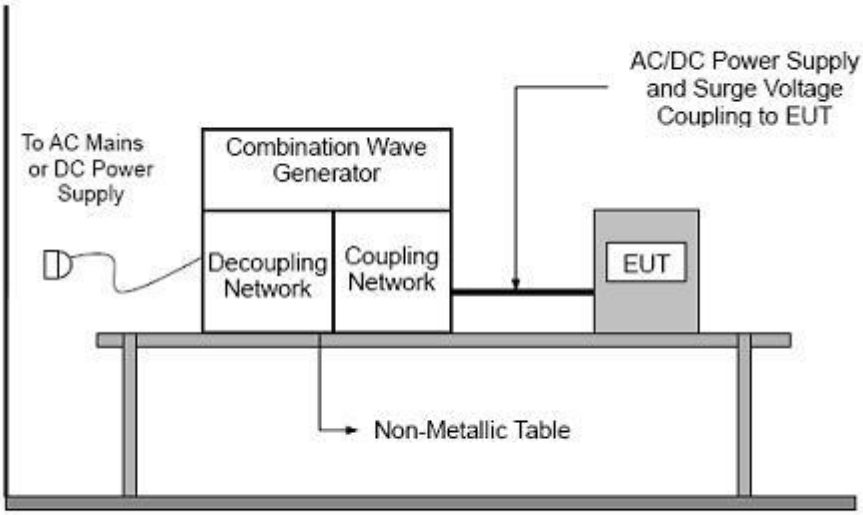
b. For test applied to unshielded unsymmetrically operated interconnection lines of EUT:

The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).

c. For test applied to unshielded symmetrically operated interconnection /telecommunication lines of EUT:

d. The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).

4.7.3 TEST SETUP



4.7.4 TEST RESULTS

EUT：	UV Sterilizer Box	Model Name ：	
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1010 hPa	Test Date：	N/A
Test Mode ：	N/A		
Test Power ：	N/A		

Note:

1)N/A-denotes test is not applicable in this test report.

2)There was not any unintentional transmission in standby mode.

4.8 INJECTION CURRENT TESTING

4.8.1 TEST SPECIFICATION

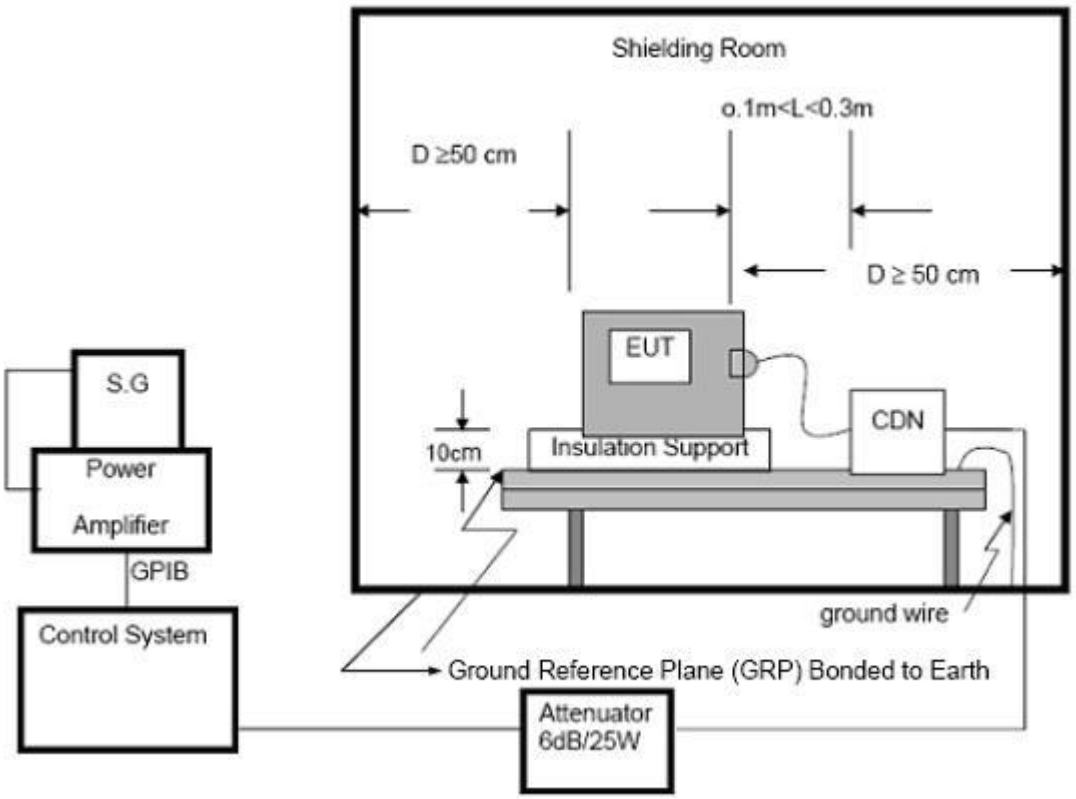
Basic Standard:	IEC/EN 61000-4-6
Required Performance	A
Frequency Range:	0.15 MHz - 80 MHz
Field Strength:	3 Vr.m.s.
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Dwell Time:	at least 3 seconds

4.8.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.
The other condition as following manner:

a. The frequency range is swept from 150 KHz to 80 MHz, with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
b. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.

4.8.3 TEST SETUP



NOTE:

FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.

4.8.4 TEST RESULTS

EUT：	UV Sterilizer Box	Model Name ：	
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1010 hPa	Test Date：	N/A
Test Mode ：	N/A		
Test Power ：	N/A		

Note:

1)N/A-denotes test is not applicable in this test report.

2)There was not any unintentional transmission in standby mode.

4.9 POWER FREQUENCY MAGNETIC FIELD TESTING

4.9.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-8
Required Performance	A
Frequency Range:	50Hz
Field Strength:	1 A/m
Observation Time:	1 minute
Inductance Coil:	Rectangular type, 1mx1m

4.9.2 TEST PROCEDURE

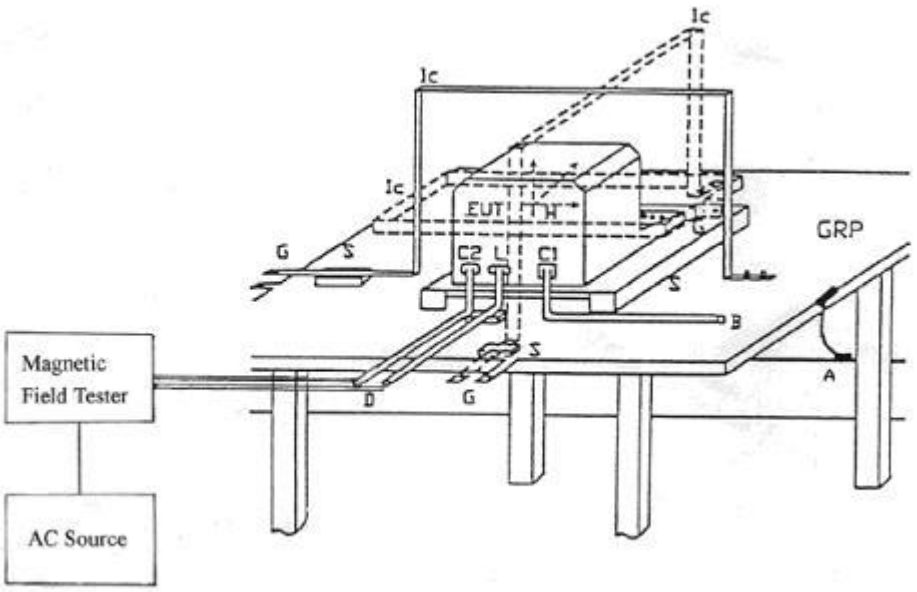
The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

a. The equipment cabinets shall be connected to the safety earth directly on the GRP via the earth terminal of the EUT.

b. The cables supplied or recommended by the equipment manufacturer shall be used. 1 meter of all cables used shall be exposed to the magnetic field.

4.9.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The equipment shall be subjected to the test magnetic field by using the induction coil of standard dimension (1 m x 1 m). The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

FLOOR-STANDING EQUIPMENT

The equipment shall be subjected to the test magnetic field by using induction coils of suitable dimensions. The test shall be repeated by moving and shifting the induction coils, in order to test the whole volume of the EUT for each orthogonal direction. The test shall be repeated with the coil shifted to different positions along the side of the EUT, in steps corresponding to 50 % of the shortest side of the coil. The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

4.9.4 TEST RESULTS

EUT：	UV Sterilizer Box	Model Name ：	
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1010 hPa	Test Date：	N/A
Test Mode ：	N/A		
Test Power ：	N/A		

Note:

1)N/A-denotes test is not applicable in this test report.

2)There was not any unintentional transmission in standby mode.

4.10 VOLTAGE INTERRUPTION/DIPS TESTING

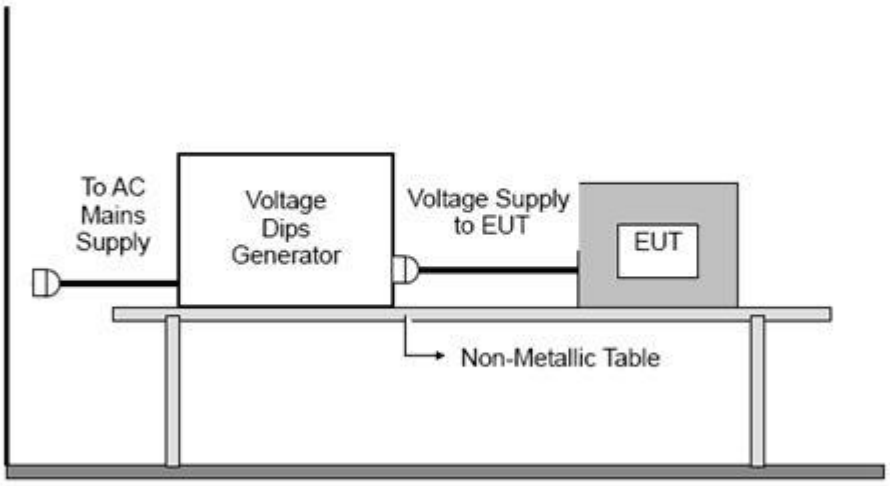
4.10.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-11
Required Performance	C (For 0% Voltage Dips) C (For 30% Voltage Dips) C (For 60% Voltage Dips)
Test Duration Time:	Minimum three test events in sequence
Interval between Event:	Minimum ten seconds
Phase Angle:	0°/45°/90°/135°/180°/225°/270°/315°/360°
Test Cycle:	3 times

4.10.2 TEST PROCEDURE

The EUT shall be tested for each selected combination of test levels and duration with a sequence of three dips/interruptions with intervals of 10 s minimum (between each test event). Each representative mode of operation shall be tested. Abrupt changes in supply voltage shall occur at zero crossings of the voltage waveform.

4.10.3 TEST SETUP



4.10.4 TEST RESULTS

EUT：	UV Sterilizer Box	Model Name ：	
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1010 hPa	Test Date：	N/A
Test Mode ：	N/A		
Test Power ：	N/A		

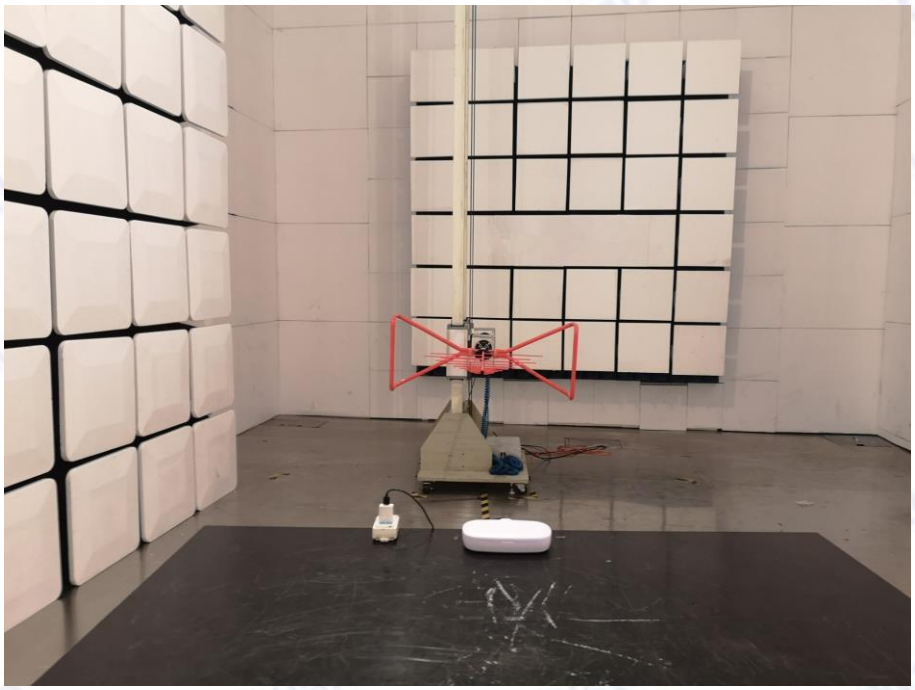
Note:

1)N/A-denotes test is not applicable in this test report.

2)There was not any unintentional transmission in standby mode.

5. EUT TEST PHOTO

Radiated Measurement Photo



ESD Photo

ATTACHMENT PHOTOGRAPHS OF EUT

Photo 1

Photo 2

Photo 3

Photo 4

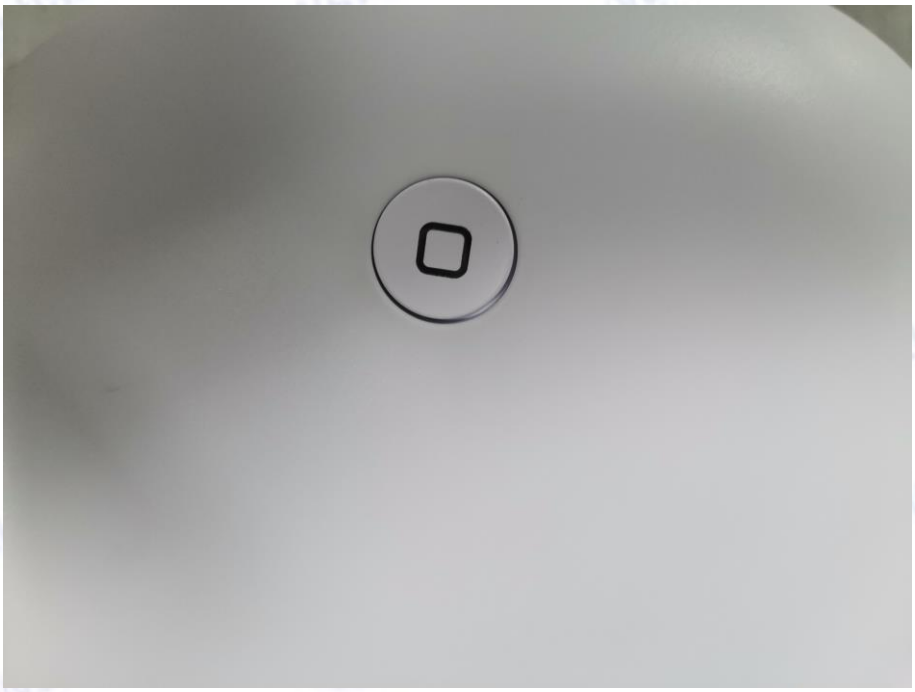


Photo 5

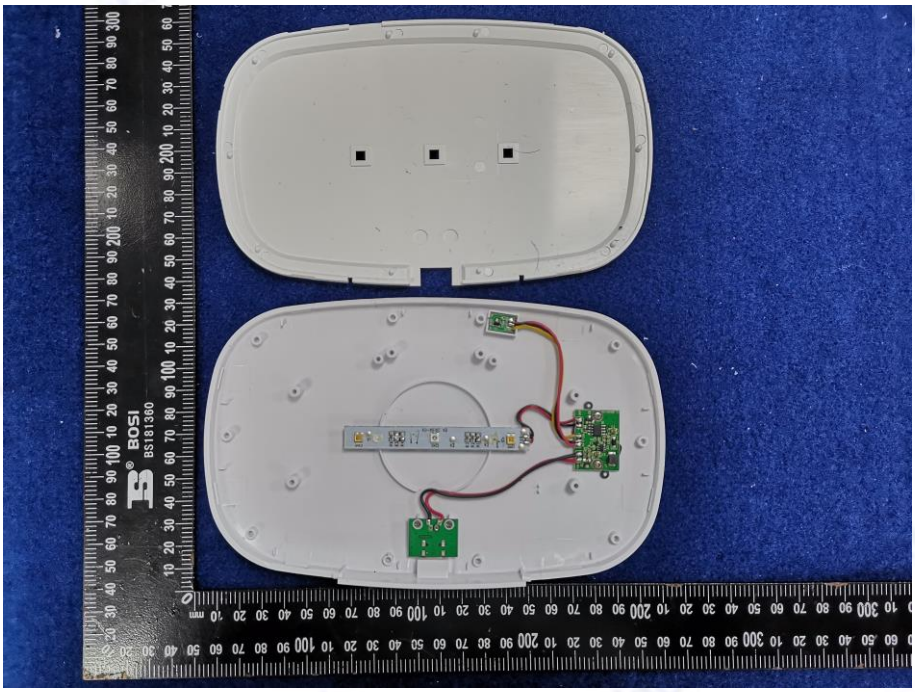


Photo 6

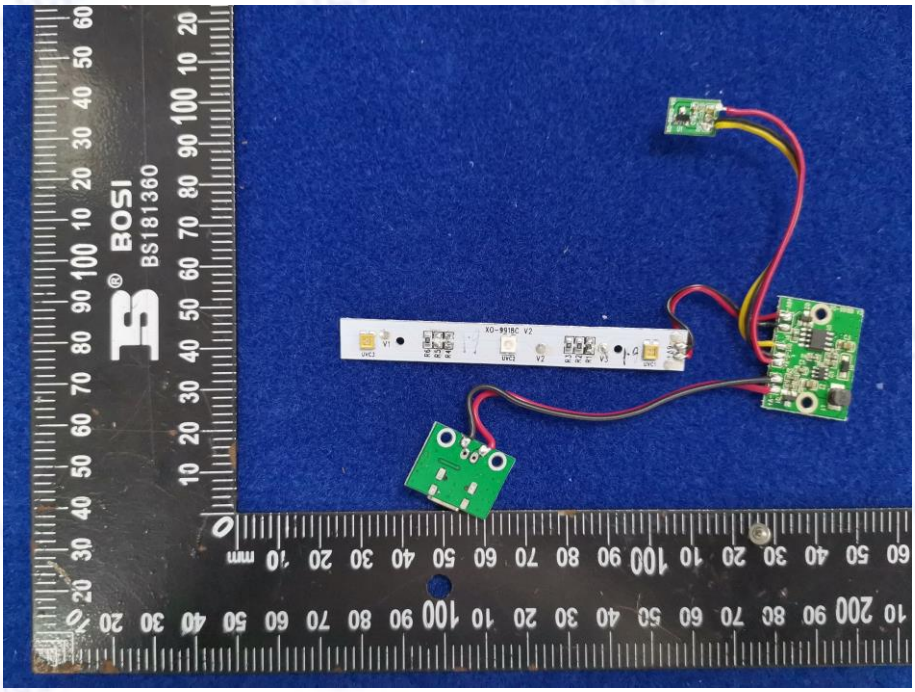
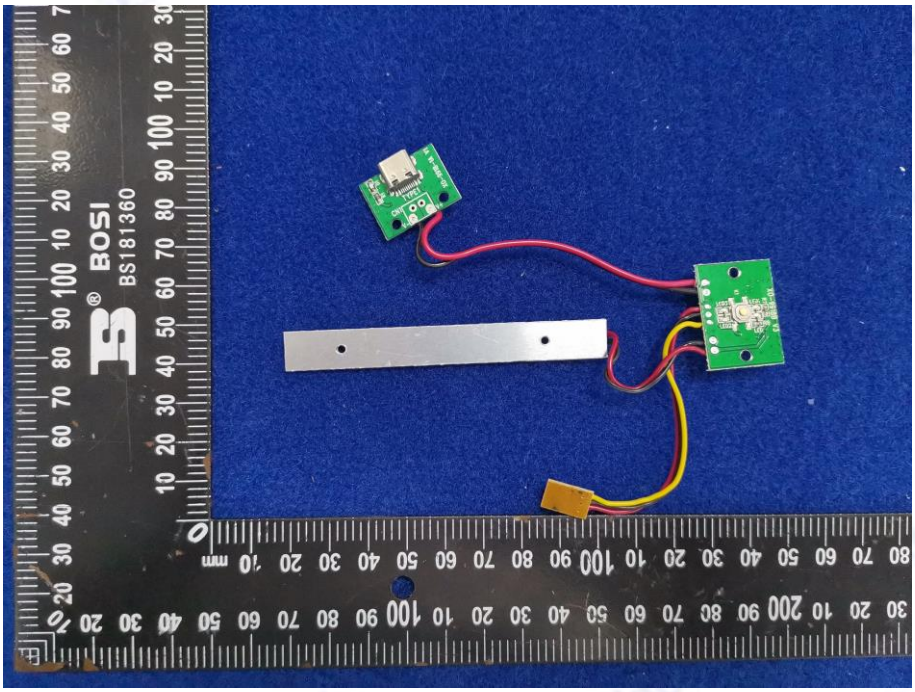


Photo 7



※※End of Report※※

Certificate ◆ Сертификат ◆ 證書 ◆ Certificat ◆ 증명서 ◆ الشهادات

CERTIFICATE OF CONFORMITY

Registration No.: WST20N050126S
Technical Construction File No.: WST20N050126-1SR

Certificate's Holder:

Manufacturer:

Product:	UV Sterilizer Box
Model (S):	6650
Trade Mark:	N/A
Rating:	Input: DC 5V, 2A, 10W
Directives:	2014/35/EU
Standard(s):	EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 EN 62233:2008 + AC:2008

Remark: This Certificate of Compliance has been issued on a voluntary basis. WST confirms that a Technical Construction File (TCF) is existent for the above listed product(s). The TCF satisfactorily covers the essential requirements of the above listed Directive(s).

Other relevant Directives have to be observed in case they are applicable.

This Document is only valid for the equipment and configuration described and in conjunction with the TCF detailed above. Whereas the Manufacturer is responsible of the certification of the product(s) and not exempted to perform all the necessary activities before placing the product(s) on the market.

The Manufacturer is also responsible of the internal production control to ensure the product(s) are in compliance with the essential requirements of the above mentioned Directive(s).

This certificate can be checked for validity at www.wstlab.com.

CE

Certification Manager

Date of issue: May 27, 2020

Shenzhen WST Testing Co., Ltd.
Address: 87 Guangshen Road, Baocheng 11st Zone, Xin'an Street, Bao'an, Shenzhen, Guangdong, China
Tel: +86 755 2782 2785 Fax: +86 755 2782 2175 E-mail: service@wstlab.com http://www.wstlab.com

Certificate ◆ Сертификат ◆ 證書 ◆ Certificat ◆ 증명서 ◆ الشهادات

CERTIFICATE OF CONFORMITY

Registration No.: WST20N050110R
Technical Construction File No.: WST20N050110-1RR

Certificate's Holder:

Manufacturer:

Product:	UV Sterilizer Box
Model (S):	6650 (Additional model materials are the same as main model materials.)
Trade Mark:	N/A
Directives:	2011/65/EU (EU) 2015/863 (EU) 2017/2102
Standard(s):	IEC62321

Remark: This Certificate of Compliance has been issued on a voluntary basis. WST confirms that a Technical Construction File (TCF) is existent for the above listed product(s). The TCF satisfactorily covers the essential requirements of the above listed Directive(s).

Other relevant Directives have to be observed in case they are applicable.

This Document is only valid for the equipment and configuration described and in conjunction with the TCF detailed above. Whereas the Manufacturer is responsible of the certification of the product(s) and not exempted to perform all the necessary activities before placing the product(s) on the market.

The Manufacturer is also responsible of the internal production control to ensure the product(s) are in compliance with the essential requirements of the above mentioned Directive(s).

This certificate can be checked for validity at www.wstlab.com.

RoHS

Certification Manager

Date of issue: May 21, 2020

Shenzhen WST Testing Co., Ltd.
Address: 87 Guangshen Road, Baocheng 11st Zone, Xin'an Street, Bao'an, Shenzhen, Guangdong, China
Tel: +86 755 2782 2785 Fax: +86 755 2782 2175 E-mail: service@wstlab.com http://www.wstlab.com

Report No.: WST20N050110-1RR

Test Report

Applicant:

Report on the submitted sample(s) said to be:

Sample Name:	UV Sterilizer Box
Model:	6650 (Additional model materials are the same as main model materials.)
Trade Mark:	N/A
Date of Test:	May 14, 2020 ~ May 21, 2020
Date of Report:	May 21, 2020
Test Requested:	1. As specified by client ,to screen Lead(Pb),Cadmium(Cd),Mercury(Hg), Chromium(Cr)and Bromine(Br)in the submitted sample(s)by XRF. 2. As specified by client ,when screening results exceed the XRF screening limit in IEC62321:2013 Edition 1.0,further use of wet chemical methods are required to test Lead(Pb),Cadmium(Cd),Mercury(Hg),Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the submitted sample(s).
Test Method:	Please refer to the following page(s).
Test Result(s):	Please refer to the following page(s).
Conclusion:	The test results comply with the limits of RoHS 2.0 Directive (EU) 2015/863 and (EU) 2017/2102 amending Annes II to Directive 2011/65/EU.

Checked By: Nana Lin (Nana Lin)

Approved By: Coco Tang (Coco Tang)

Test Method:

(1)With reference to IEC 62321:2013

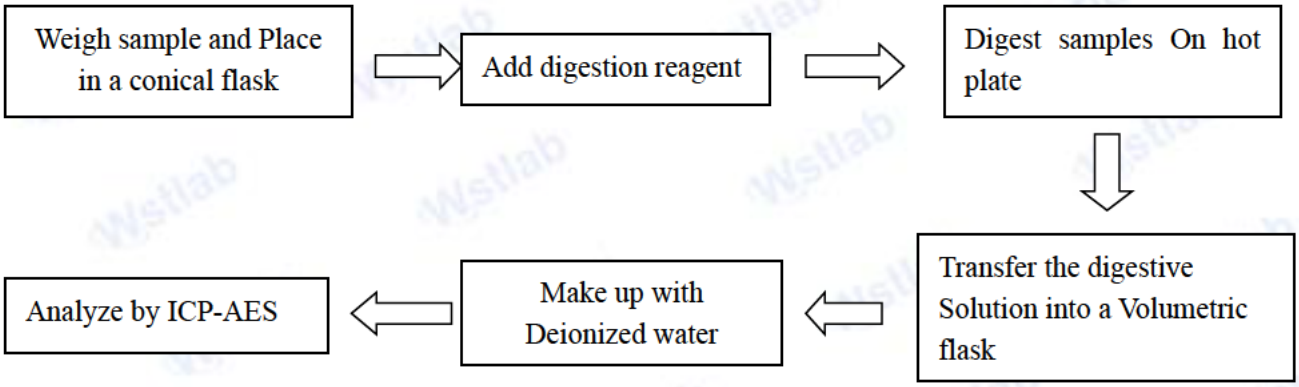
Testing item	Pretreatment method	Measuring instrument	MDL
Lead(Pb)	IEC 62321-5: 2013	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321-5: 2013	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321-4: 2013	ICP-OES	2 mg/kg
Chromium(Cr VI)	IEC 62321-7:2015	UV-VIS	2 mg/kg
PBBs/ PBDEs	IEC 62321-6:2015	GC-MS	5 mg/kg

(2)With reference to EN 62321-8:2017

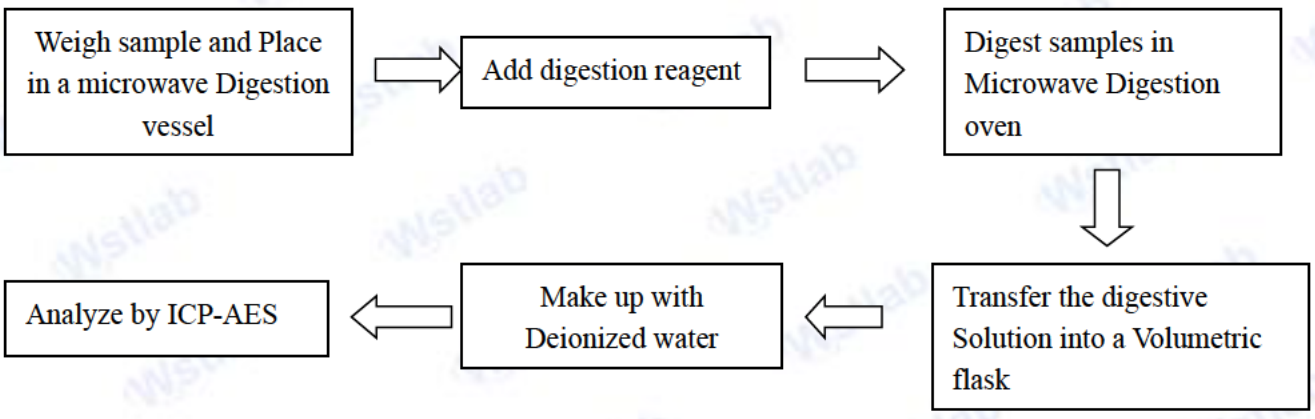
Testing item	Pretreatment method	Measuring instrument	MDL
DEHP、DBP、BBP、DIBP	EN 62321-8:2017	GC-MS	0.003 mg/kg

Test Process:

1. Test for Cd/Pb Content

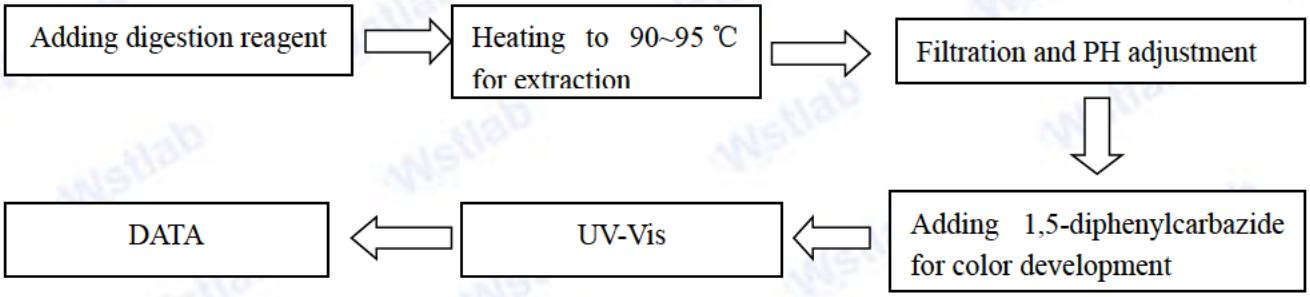


2.Test for Hg Content

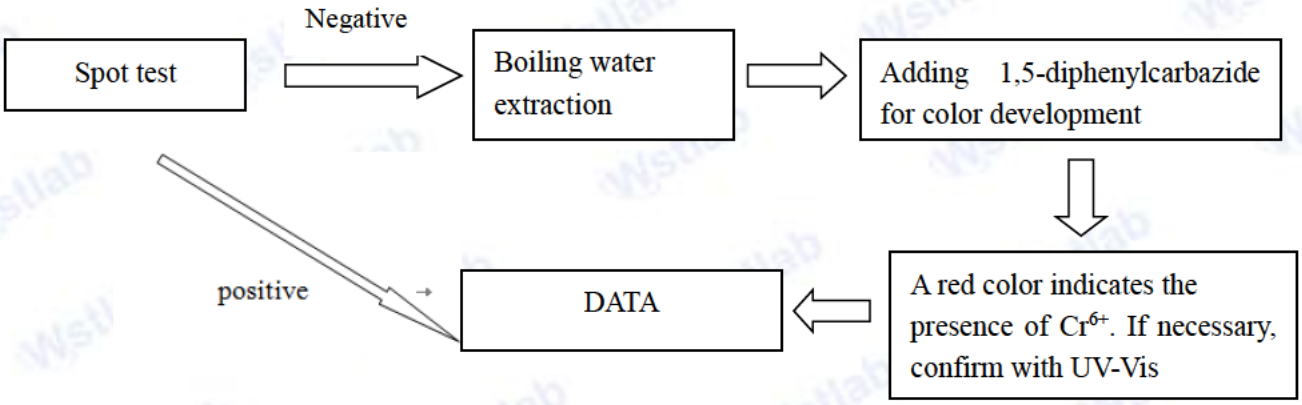


3. Test for Chromium(VI) Content

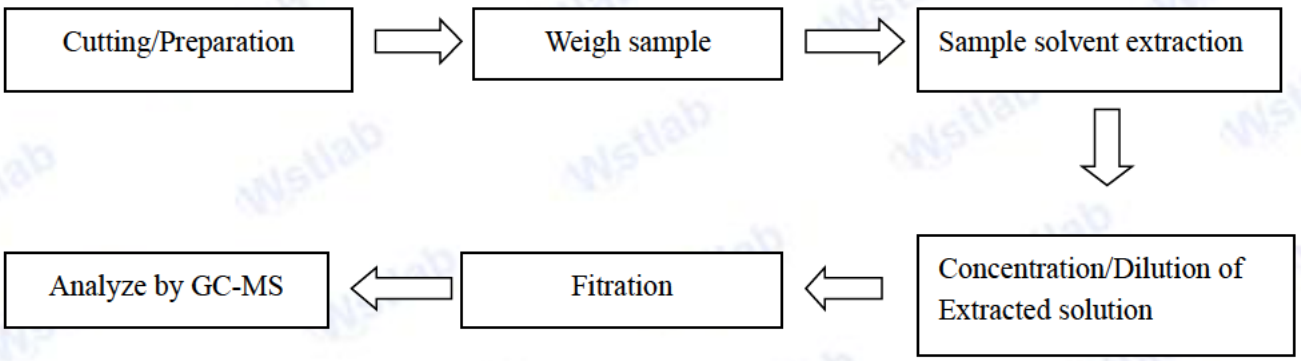
Nonmetallic material



Metallic material



4. Test for DBP, BBP, DEHP, DIHP, DIBP, PBB, PBDE Content



Test Results:

Testing Item	Unit	ROHS Limit	Result					
			1	2	3	4	5	6
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromobiphenyl	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Bis-(2-ethylhecyl) Phthalate (DEHP)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Sample Description:

1: PCB

2: IC

3: Triode

4: Resistance

5: Capacitance

6: Inductance

Testing Item	Unit	ROHS Limit	Result					
			7	8	9	10	11	12
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	/	N.D.	N.D.	/	/	N.D.
Monobromobiphenyl	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Dibromobiphenyl	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Tribromobiphenyl	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Tetrabromobiphenyl	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Pentabromobiphenyl	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Hexabromobiphenyl	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Heptabromobiphenyl	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Octabromobiphenyl	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Nonabromobiphenyl	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Decabromobiphenyl	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Sum of PBDEs	mg/kg	1000	/	N.D.	N.D.	/	/	N.D.
Monobromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Dibromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Tribromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Tetrabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Pentabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Hexabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Heptabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Octabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Nonabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Decabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	/	/	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	1000	/	N.D.	N.D.	/	/	N.D.
Bis-(2-ethylhecyl) Phthalate (DEHP)	mg/kg	1000	/	N.D.	N.D.	/	/	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	1000	/	N.D.	N.D.	/	/	N.D.
Dibutyl Phthalate (DBP)	mg/kg	1000	/	N.D.	N.D.	/	/	N.D.

Sample Description:

7: Solder

8: Black electrolytic capacitor film

9: Black rubber

10: Pin

11: Aluminum shell

12: Electrolytic paper

Testing Item	Unit	ROHS Limit	Result					
			13	14	15	16	17	18
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	/	N.D.	N.D.	N.D.	/
Monobromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Dibromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Tribromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Tetrabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Pentabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Hexabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Heptabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Octabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Nonabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Decabromobiphenyl	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Sum of PBDEs	mg/kg	1000	N.D.	/	N.D.	N.D.	N.D.	/
Monobromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Dibromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Tribromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Tetrabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Pentabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Hexabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Heptabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Octabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Nonabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Decabromodiphenyl ether	mg/kg	-	N.D.	/	N.D.	N.D.	N.D.	/
Diisobutyl phthalate (DIBP)	mg/kg	1000	N.D.	/	N.D.	N.D.	N.D.	/
Bis-(2-ethylhecyl) Phthalate (DEHP)	mg/kg	1000	N.D.	/	N.D.	N.D.	N.D.	/
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	/	N.D.	N.D.	N.D.	/
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	/	N.D.	N.D.	N.D.	/

Sample Description:
13: Inductor body
14: Copper wire
15: Adhesive tape
16: White plastic wire
17: White silicone
18: Wire core

Testing Item	Unit	ROHS Limit	Result					
			19	20	21	22	23	24
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	/	N.D.	N.D.	N.D.	/	N.D.
Monobromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Dibromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Tribromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Tetrabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Pentabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Hexabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Heptabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Octabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Nonabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Decabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Sum of PBDEs	mg/kg	1000	/	N.D.	N.D.	N.D.	/	N.D.
Monobromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Dibromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Tribromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Tetrabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Pentabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Hexabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Heptabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Octabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Nonabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Decabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	/	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	1000	/	N.D.	N.D.	N.D.	/	N.D.
Bis-(2-ethylhecyl) Phthalate (DEHP)	mg/kg	1000	/	N.D.	N.D.	N.D.	/	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	1000	/	N.D.	N.D.	N.D.	/	N.D.
Dibutyl Phthalate (DBP)	mg/kg	1000	/	N.D.	N.D.	N.D.	/	N.D.

Sample Description:

19: Screw

20: White plastic shell

21: LED

22: Ink

23: Metal interface

24: USB

Testing Item	Unit	ROHS Limit	Result					
			25	26	27	28	29	30
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	/
Monobromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Dibromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Tribromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Pentabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Heptabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Octabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Nonabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Decabromobiphenyl	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	/
Monobromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Dibromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Tribromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Tetrabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Pentabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Heptabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Octabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Decabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	N.D.	N.D.	/
Diisobutyl phthalate (DIBP)	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	/
Bis-(2-ethylhecyl) Phthalate (DEHP)	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	/
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	/
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	N.D.	/	N.D.	N.D.	/

Sample Description:

25: Display screen

26: White plastic button

27: Silver metal plug

28: White plastic baffle

29: Black magic post

30: Metal wire

Testing Item	Unit	ROHS Limit	Result					
			31	32	/	/	/	/
Lead(Pb)	mg/kg	1000	N.D.	N.D.	/	/	/	/
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	/	/	/	/
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	/	/	/	/
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	/	/	/	/
Sum of PBBs	mg/kg	1000	N.D.	N.D.	/	/	/	/
Monobromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	/	/
Dibromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	/	/
Tribromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	/	/
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	/	/
Pentabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	/	/
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	/	/
Heptabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	/	/
Octabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	/	/
Nonabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	/	/
Decabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	/	/
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	/	/	/	/
Monobromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	/	/
Dibromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	/	/
Tribromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	/	/
Tetrabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	/	/
Pentabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	/	/
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	/	/
Heptabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	/	/
Octabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	/	/
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	/	/
Decabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	/	/
Diisobutyl phthalate (DIBP)	mg/kg	1000	N.D.	N.D.	/	/	/	/
Bis-(2-ethylhecyl) Phthalate (DEHP)	mg/kg	1000	N.D.	N.D.	/	/	/	/
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	N.D.	/	/	/	/
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	N.D.	/	/	/	/

Sample Description:

31: White paint

32: White plastic straps

Notes:

1mg/kg=1ppm = 0.0001%

N.D. = Not Detected (<MDL)

MDL = Method Detection Limit

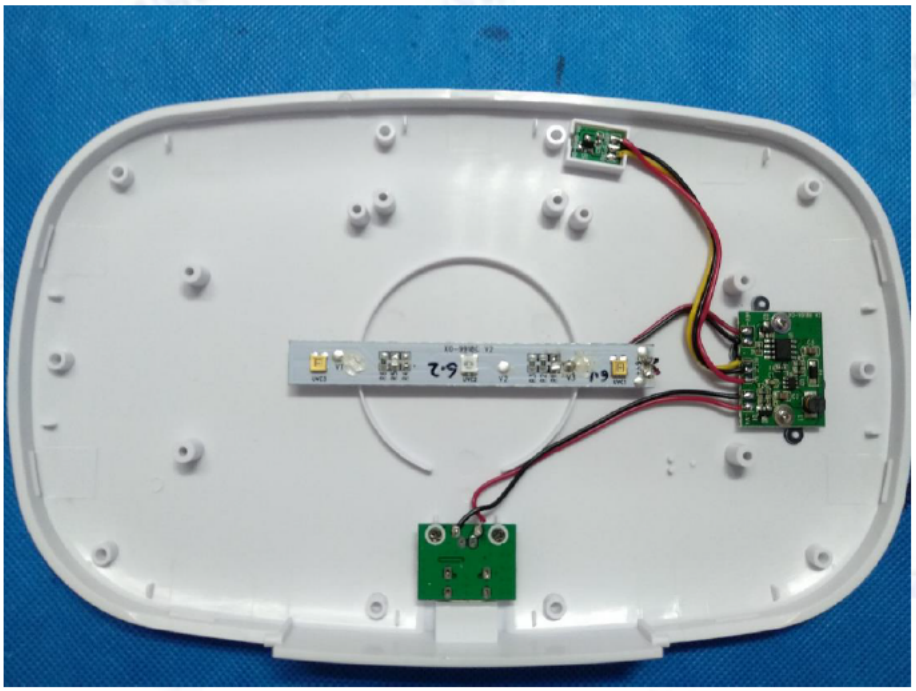
/=Not Regulated

Sample Photo:

Photo 1

Photo 2

Photo 3



---The end of report---