

Verification  
On Behalf of  
Smart Team Holdings Limited

Portable & Personal air purifier  
Model No.: Ai408

Prepared for       : Smart Team Holdings Limited  
Address            : Flat A01, 5/F, Great Wall Fty Bldg., 11 Cheung St., Lai Chi  
                          Kok, Kowloon, HK

Prepared By       : Shenzhen Anbotek Compliance Laboratory Limited  
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Report Number    : R011610891E  
Date of Test       : Oct. 29~Nov. 01, 2016  
Date of Report     : Nov. 02, 2016

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APPENDIX I    (Photos of EUT) (3 Pages)

## TEST REPORT VERIFICATION

Applicant : Smart Team Holdings Limited  
Manufacturer : Smart Team Holdings Limited  
EUT : Portable & Personal air purifier  
Model No. : Ai408  
Rating : DC 5V, 0.2A  
Trade Mark : N.A.

## Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B: 2016 / ANSI C63.4-2014

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these measurements.

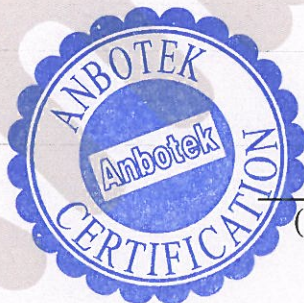
This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited

Date of Test : Oct. 29~Nov. 01, 2016

Prepared by :

Baron Wen  
(Engineer/ Baron Wen)

Reviewer :



Angel Deng  
(Project Manager/ Angel Deng)

Approved & Authorized Signer :

Tom Chen  
(Manager/ Tom Chen)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

Description	: Portable & Personal air purifier
Model Number	: Ai408
Test Power Supply	: DC 5V
Applicant	: Smart Team Holdings Limited
Address	: Flat A01, 5/F, Great Wall Fty Bldg., 11 Cheung St., Lai Chi Kok, Kowloon, HK
Manufacturer	: Shenzhen Smart Team Technology Limited
Address	: Building A 3th floor Xutai Industrial Zone, Long Wo Road, Long Tian Village, Keng Zi Town, Longgang District, Shenzhen, Guangdong, China
Factory	: Shenzhen Smart Team Technology Limited
Address	: Building A 3th floor Xutai Industrial Zone, Long Wo Road, Long Tian Village, Keng Zi Town, Longgang District, Shenzhen, Guangdong, China
Date of receipt	: Oct. 29, 2016
Date of Test	: Oct. 29~Nov. 01, 2016
Adapter	: Manufacturer: Samsung M/N: ETA-U90CBC S/N: RT6FB17ZS/B-E Input: AC 100-240V, 50-60Hz, 0.35A Output: DC 5V, 2A



## 1.2. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### **CNAS - LAB Code: L3503**

Shenzhen Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

### **FCC-Registration No.: 752021**

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, July 06, 2016

### **IC-Registration No.: 8058A-1**

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A-1, June 13, 2016

### **Test Location**

All Emissions tests were performed  
Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

## 1.3. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.1dB (Horizontal)  
Ur = 4.3dB (Vertical)

Conduction Uncertainty : Uc = 3.4dB

## 1.4. Test Summary

For the EUT described above. The standards used were FCC Part 15 Subpart B for Emissions.

Table 1 : Tests Carried Out Under FCC Part 15 Subpart B

Standard	Test Items	Status
FCC Part 15 Subpart B	Power Line Conducted Emission Test (150KHz To 30MHz)	x
FCC Part 15 Subpart B	Radiated Emission Test (30MHz To 1000MHz)	√

√ Indicates that the test is applicable

x Indicates that the test is not applicable

## 2. RADIATED EMISSION MEASUREMENT

### 2.1. Test Equipment

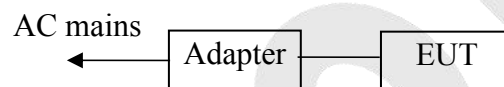
The following test equipments are used during the radiated emission measurement:

#### 2.1.1. For Anechoic Chamber

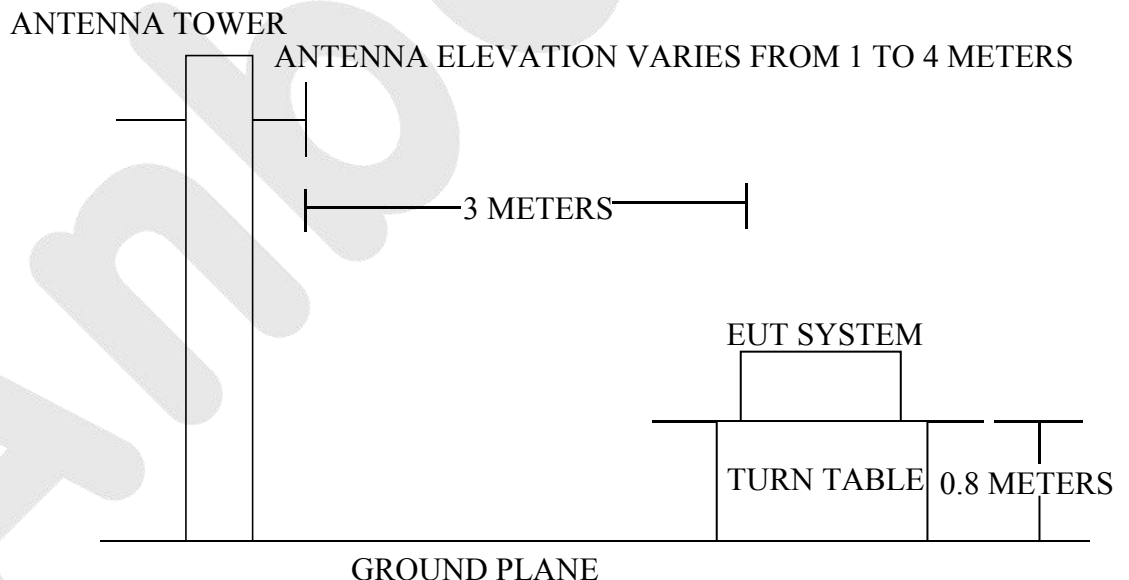
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 16, 2016	1 Year
2.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 19, 2016	1 Year
3.	Pre-amplifier	SONOMA	310N	186860	Apr. 16, 2016	1 Year

### 2.2. Block Diagram of Test Setup

#### 2.2.1. Block diagram of connection between the EUT and simulators



#### 2.2.2. Anechoic Chamber Test Setup Diagram



### 2.3. Radiated Emission Limit (Subpart B Class B)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0

960~1000	3	500	54.0
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- Remark : (1) Emission level (dB) $\mu$ V = 20 log Emission level  $\mu$ V/m  
(2) The smaller limit shall apply at the cross point between two frequency bands.  
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 2.4. EUT Configuration on Measurement

The following equipments are installed on radiated emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 2.5. Operating Condition of EUT

2.5.1. Setup the EUT as shown in Section 2.2.

2.5.2. Let the EUT work in test mode (On) and measure it.

## 2.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (Trilog Broadband Antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

The bandwidth of the EMI test receiver (ESCI) is set at 120kHz.

The frequency range from 30MHz to 1000MHz is checked.

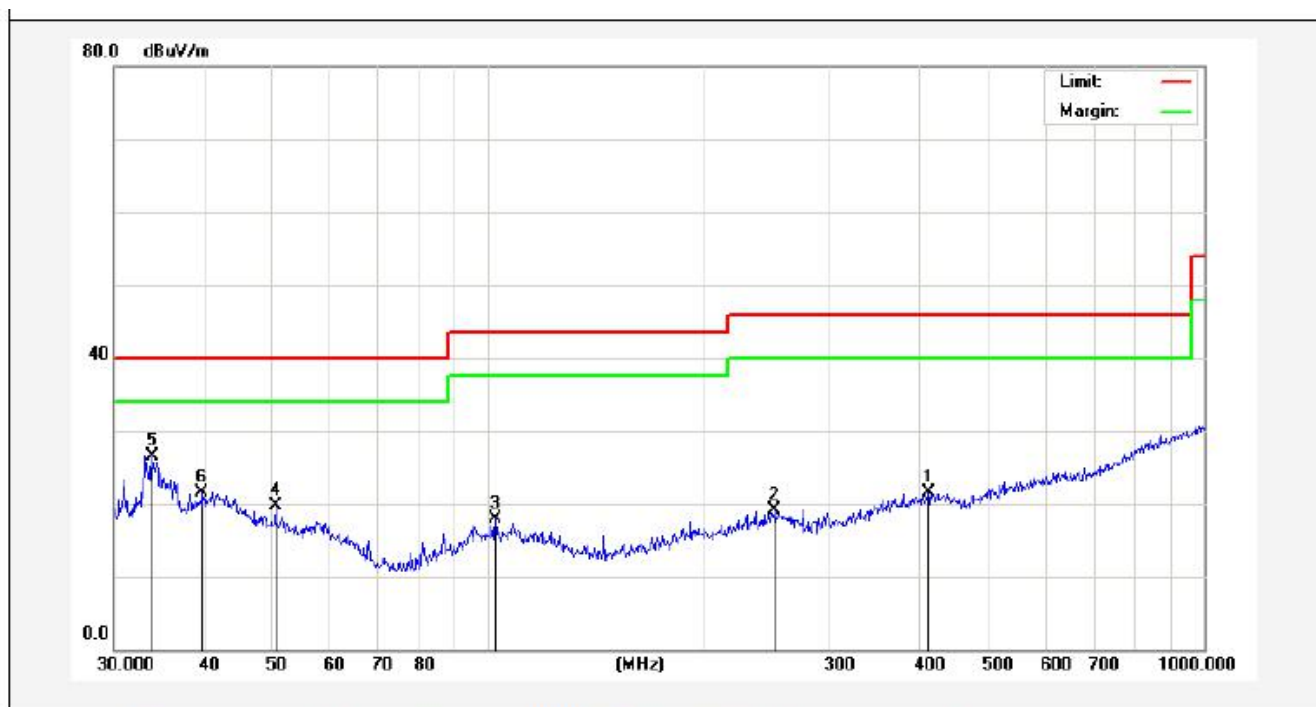
The test mode is tested in chamber and all the test results are listed in Section 2.7.

## 2.7. Radiated Emission Measurement Results

**PASS.**

The test curves are shown in the following pages.

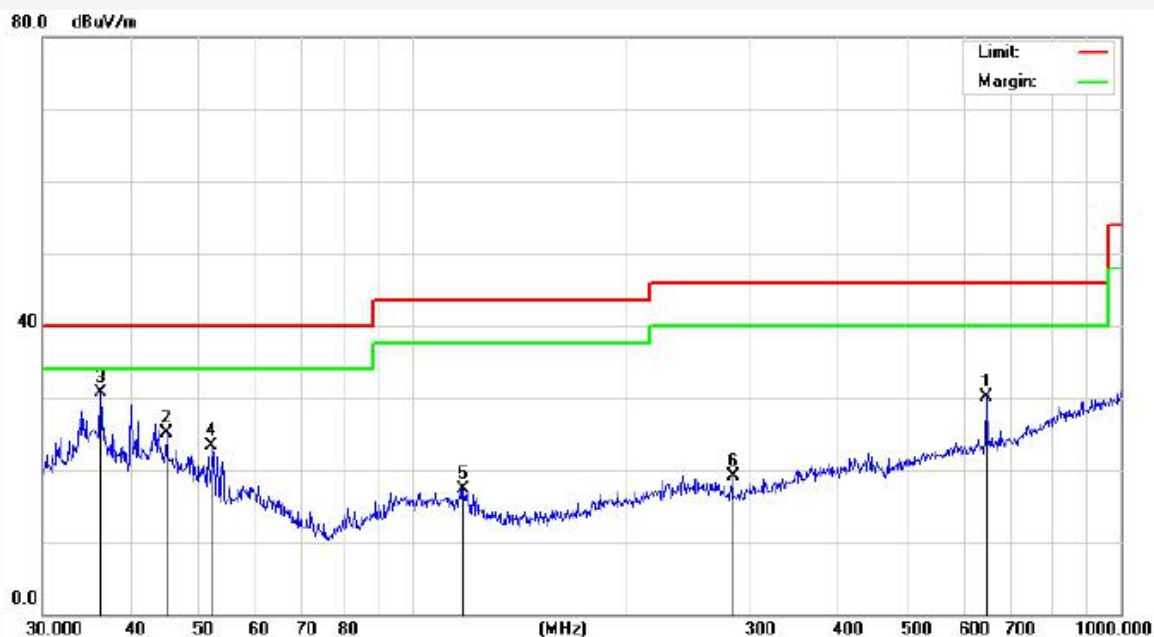
Job No.:	AT011610891E	Polarization:	Horizontal
Standard:	(RE)FCC PART15 B_3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(°C)/Hum.(%RH):	24.3( °C)/55%RH
Mode:	On	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	411.8240	34.05	-12.58	21.47	46.00	-24.53	peak			
2	251.1804	37.67	-18.59	19.08	46.00	-26.92	peak			
3	102.3597	38.55	-20.73	17.82	43.50	-25.68	peak			
4	50.4089	34.28	-14.60	19.68	40.00	-20.32	peak			
5	33.9174	41.46	-14.86	26.60	40.00	-13.40	peak			
6	39.8542	31.93	-10.49	21.44	40.00	-18.56	peak			



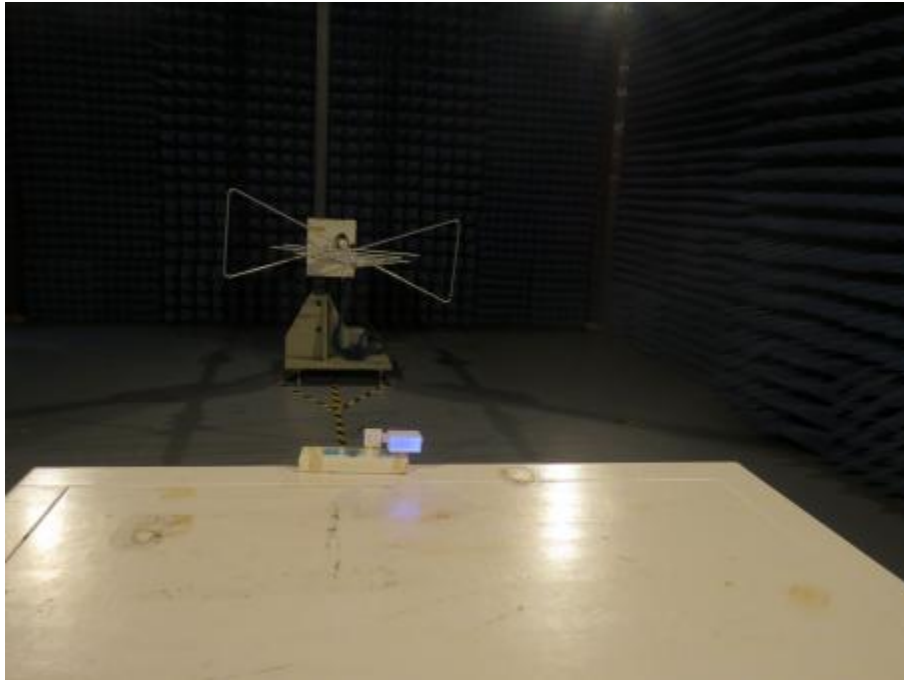
Job No.:	AT011610891E	Polarization:	Vertical
Standard:	(RE)FCC PART15 B _3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(°C)/Hum.(%RH):	24.3( °C)/55%RH
Mode:	On	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	645.1195	39.07	-8.89	30.18	46.00	-15.82	peak			
2	44.9006	37.33	-12.29	25.04	40.00	-14.96	peak			
3	36.2541	44.03	-13.31	30.72	40.00	-9.28	peak			
4	52.0251	37.95	-14.71	23.24	40.00	-16.76	peak			
5	117.7725	33.51	-16.18	17.33	43.50	-26.17	peak			
6	282.9852	34.35	-15.15	19.20	46.00	-26.80	peak			

### 3. PHOTOGRAPH

#### 3.1. Photo of Radiated Emission Test



## APPENDIX I (Photos of EUT)

Figure 1  
The EUT-Front View



Figure 2  
The EUT-Back View



Figure 3  
The EUT-Side View



Figure 4  
The EUT-Partial View

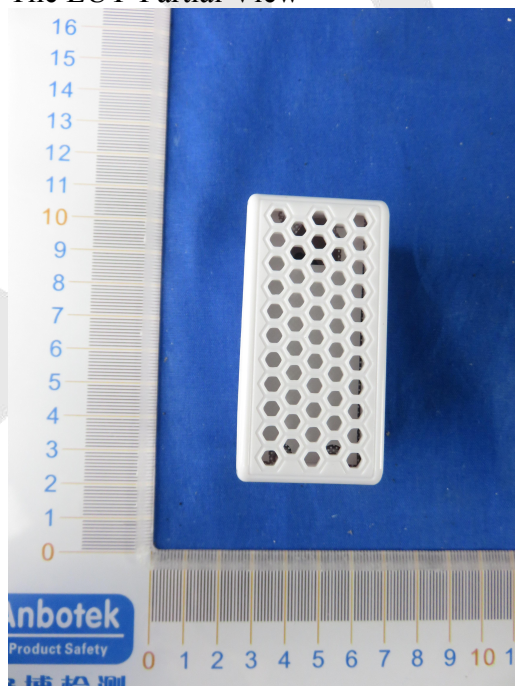




Figure 5  
The EUT-Partial View



Figure 6  
PCB of the EUT -Front View

