# *EXHIBIT 4*

## *Test Report*

*Test Report*

*ACS-F07135*

# APPLICATION FOR CERTIFICATION
On Behalf of

Qingdao Haier Intelligent Electronics Co., Ltd.

Smart Senteo

Model Number: 03-00099-21

Prepared for : Qingdao Haier Intelligent Electronics Co., Ltd.
No.99 Chongqing South Road, Qingdao, China

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496

| | | |
|---|---|---|
| Report Number | : | ACS-F07135 |
| Date of Test | : | Apr. 06 ~ 14, 2007 |
| Date of Report | : | Apr. 20, 2007 |

# TABLE OF CONTENTS

Description

Page

FCC Test Report for Declaration of Conformity

# TEST REPORT DECLARATION

| | | |
|---|---|---|
| Applicant | : | Qingdao Haier Intelligent Electronics Co., Ltd. |
| Manufacturer | : | Qingdao Haier Intelligent Electronics Co., Ltd. |
| EUT Description | : | Smart Senteo |
| | | (A) MODEL NO. : 03-00099-21 |
| | | (B) SERIAL NO. : N/A |
| | | (C) POWER SUPPLY : DC 5V From PC Input AC 120V/60Hz |

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2006

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.
The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

This report must not be used by the applicant to claim product endorsement by NVLAP or any agency of the U.S. Government.

Date of Test : Apr. 06 ~ 14, 2007

Prepared by : YoYo Wang / Assistant

Reviewer : Iceman Hu / Senior Engineer

Approved & Authorized Signer : Ken Lu / Deputy Manager

Name of the Representative of the Responsible Party : _____

Signature : _____

# 1. SUMMARY OF STANDARDS AND RESULTS

## 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

| EMISSION | | |
|---|---|---|
| **Description of Test Item** | **Standard** | **Results** |
| Conducted Emission Test | FCC Part 15: 15.207<br>ANSI C63.4: 2003 | PASS |
| Radiated Emission Test | FCC Part 15: 15.209<br>ANSI C63.4: 2003 | PASS |
| 6dB Bandwidth Test | FCC Part 15: 15.247 | PASS |
| Output Power Test | FCC Part 15: 15.247 | PASS |
| Band Edge Compliance Test | FCC Part 15: 15.247 | PASS |
| Power Spectral Density Test | FCC Part 15: 15.247 | PASS |
| MPE ESTIMATION | FCC Part 2: 2.1093 | PASS |
| N/A is an abbreviation for Not Applicable. | | |

# 2. GENERAL INFORMATION

## 2.1. Description of Device (EUT)

| | | |
|---|---|---|
| Description | : | Smart Senteo |
| Model Number | : | 03-00099-21 |
| Operation frequency | : | 2.4GHz-----2.4835GHz ISM Band |
| Channel Number | : | 16 |
| Channel frequency | : | F = 2405 + 5 (k-11) MHz, k=11, 12... 26 |
| Radio Technology | : | IEEE 802.15.4(Zigbee) |
| Modulation Technology | : | DSSS modulation |
| Output power | : | -16.42dBm(measured) |
| Antenna | : | Integral antenna |
| Power | : | DC 5V |
| Antenna Assembly Gain | : | 3dB (maximum) |
| Applicant | : | Qingdao Haier Intelligent Electronics Co., Ltd.<br>No.99 Chongqing South Road, Qingdao, China |
| Manufacturer | : | Qingdao Haier Intelligent Electronics Co., Ltd.<br>No.99 Chongqing South Road, Qingdao, China |
| Date of Test | : | Apr.06~14, 2007 |

## 2.2.Tested Supporting System Details

### 2.2.1.PERSONAL COMPUTER

| | | |
|---|---|---|
| EMC CODE | : | Test PC G |
| M/N | : | AG017PA#AB2 |
| S/N | : | CN5470G18 |
| Manufacturer | : | HP |
| Power cord | : | Unshielded, Detachable, 1.8m |
| FCC ID | : | By DoC |
| BSMI ID | : | R33001 |

### 2.2.2.MONITOR

| | | |
|---|---|---|
| EMC CODE | : | Test Monitor B |
| M/N | : | E772F |
| S/N | : | CN-02W486-64180-3CE-00LA |
| Manufacturer | : | Dell |
| Data Cable | : | Shielded, Undetachabled, 1.8m |
| FCC ID | : | By DoC |
| BSMI ID | : | N/A |

### 2.2.3.MOUSE

| | | |
|---|---|---|
| EMC CODE | : | ACS-EMC-M04R |
| M/N | : | M056UO |
| S/N | : | 512024282 |
| Manufacturer | : | Dell |
| Data Cable | : | Shielded, Undetachabled, 1.8m |
| FCC ID | : | By DoC |
| BSMI ID | : | R41108 |

### 2.2.4.KEYBOARD

| | | |
|---|---|---|
| EMC CODE | : | ACS-EMC-K01R |
| M/N | : | SK-8125 |
| Manufacturer | : | Dell |
| Data Cable | : | Shielded, Undetachabled, 2.0m<br>Add core |
| FCC ID | : | By DoC |
| BSMI ID | : | R31302 |

## 2.3.Test Facility

Site Description

| | | |
|---|---|---|
| 3m Anechoic Chamber | : | Certificated by FCC, USA<br>Registration Number: 90454<br>Jun. 13, 2006 |
| 3m & 10m Anechoic Chamber | : | Certificated by FCC, USA<br>Registration Number: 794232<br>Jan. 31, 2007 |
| EMC Lab. | : | Certificated by DATech, German<br>Registration Number: DAT-P-091/99-01<br>Feb. 02, 2004<br><br>Certificated by NVLAP, USA<br>NVLAP Code: 200372-0<br>Apr.01, 2006<br><br>Certificated by Nemko, Norway<br>Aut. No.: ELA135<br>April. 22, 2004<br><br>Certificated by Industry Canada<br>Registration Number: IC 5183<br>Jul. 28, 2004 |
| Name of Firm | : | Audix Technology (Shenzhen) Co., Ltd. |
| Site Location | : | No. 6, Ke Feng Rd., 52 Block,<br>Shenzhen Science & Industrial Park,<br>Nantou, Shenzhen, Guangdong, China |

## 2.4.Measurement Uncertainty

| No. | Item | Uncertainty | Remark |
|---|---|---|---|
| 1. | Uncertainty for Conducted Emission Test | 1.22dB | |
| 2. | Uncertainty for Radiated Emission Test | 3.14dB | 3m Chamber |
| 3. | Uncertainty for Radiated Emission Test | 3.18dB | 10m Chamber |
| 4. | Uncertainty for Power Clamp Test | 1.38dB | |

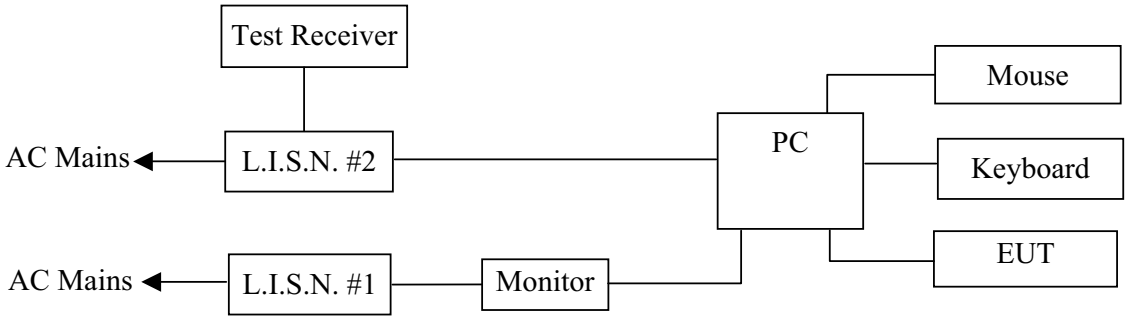
# 3. POWER LINE CONDUCTED EMISSION TEST

## 3.1.Test Equipments

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Test Receiver | Rohde & Schwarz | ESHS10 | 838693/001 | May 15, 06 | 1 Year |
| 2. | L.I.S.N.#1 | Rohde & Schwarz | ESH2-Z5 | 834066/011 | May 15, 06 | 1 Year |
| 3. | L.I.S.N.#2 | Kyoritsu | KNW-407 | 8-1636-1 | May 15, 06 | 1 Year |
| 4. | Terminator | Hubersuhner | 50Ω | No. 1 | May 15, 06 | 1 Year |
| 5. | RF Cable | MIYAZAKI | 5D-2W | LISN Cable 1# | Feb.16, 07 | 1/2 Year |
| 6. | Coaxial Switch | Anritsu | MP59B | M55367 | Feb.16, 07 | 1/2 Year |
| 7. | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100340 | Feb.16, 07 | 1/2 Year |

## 3.2.Block Diagram of Test Setup

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




***(EUT: Smart Senteo)***

## 3.3.Power Line Conducted Emission Test Limits

| Frequency | Maximum RF Line Voltage | |
|---|---|---|
| | Quasi-Peak Level dB(μV) | Average Level dB(μV) |
| 150kHz ~ 500kHz | 66 ~ 56* | 56 ~ 46* |
| 500kHz ~ 5MHz | 56 | 46 |
| 5MHz ~ 30MHz | 60 | 50 |

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

## 3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Smart Senteo (EUT)

Model Number : 03-00099-21
Serial Number : N/A
Manufacturer : Qingdao Haier Intelligent Electronics Co., Ltd.

3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2..

## 3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.
3.5.2. Turn on the power of all equipment.
3.5.3. Let the EUT work in test mode (TX) and measure it.

## 3.6. Test Procedure

The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

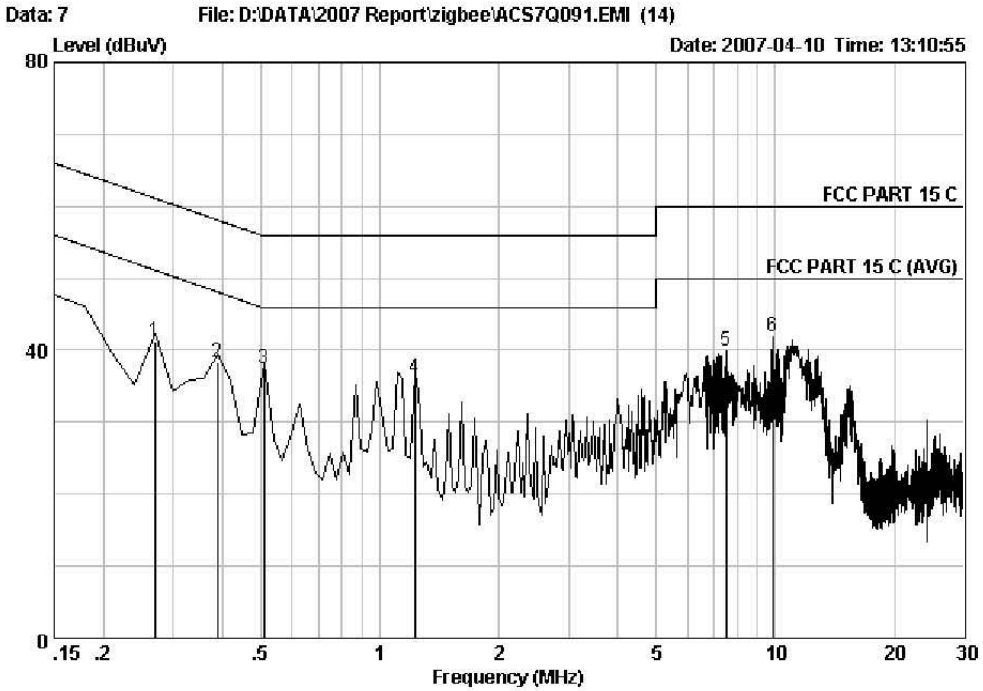
The frequency range from 150kHz to 30MHz is checked.

The test result are reported on Section 3.7.,

## 3.7. Power Line Conducted Emission Test Results

**PASS.**

No.6 ke Feng Road ,B1;ck 52,
Shenzhen Science & Industry Park
Nantou,Shenzhen,Guangdong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

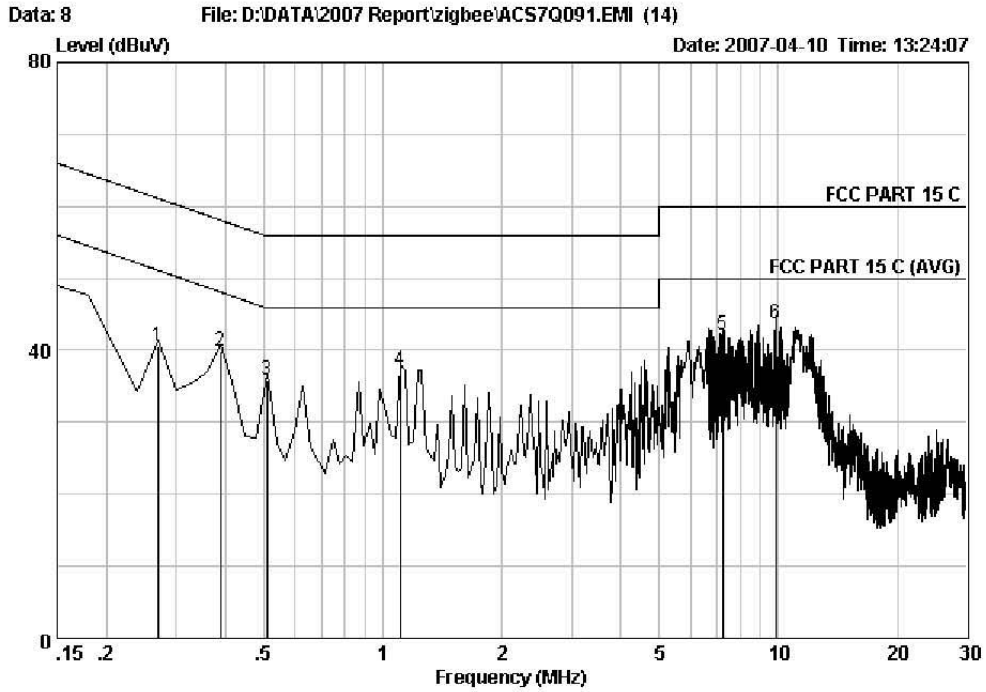



Site no. : Audix No.1 Conduction Data no. : 7
Dis. / Ant. : -- VA KNW-407 Ant. pol. :
Limit : FCC PART 15 C
Env. / Ins. : Temp:23' Humi:54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode

| | Freq. (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.27 | 0.44 | 10.09 | 30.80 | 41.33 | 61.14 | 19.81 | QP |
| 2 | 0.39 | 0.33 | 10.09 | 27.97 | 38.39 | 58.09 | 19.70 | QP |
| 3 | 0.51 | 0.25 | 10.14 | 26.98 | 37.37 | 56.00 | 18.63 | QP |
| 4 | 1.22 | 0.21 | 10.16 | 25.69 | 36.06 | 56.00 | 19.94 | QP |
| 5 | 7.52 | 0.20 | 10.22 | 29.55 | 39.97 | 60.00 | 20.03 | QP |
| 6 | 9.85 | 0.22 | 10.25 | 31.42 | 41.89 | 60.00 | 18.11 | QP |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary

No.6 ke Feng Road ,B1;ck 52,
Shenzhen Science & Industry Park
Nantou,Shenzhen,Guangdong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057




Site no. : Audix No.1 Conduction Data no. : 8
Dis. / Ant. : -- VB KNW-407 Ant. pol. :
Limit : FCC PART 15 C
Env. / Ins. : Temp:23' Humi:54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode

| | Freq. (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.27 | 0.82 | 10.09 | 29.54 | 40.45 | 61.14 | 20.69 | QP |
| 2 | 0.39 | 0.64 | 10.09 | 29.05 | 39.78 | 58.09 | 18.31 | QP |
| 3 | 0.51 | 0.51 | 10.14 | 25.16 | 35.81 | 56.00 | 20.19 | QP |
| 4 | 1.11 | 0.34 | 10.16 | 26.72 | 37.22 | 56.00 | 18.78 | QP |
| 5 | 7.22 | 0.34 | 10.22 | 31.52 | 42.08 | 60.00 | 17.92 | QP |
| 6 | 9.85 | 0.39 | 10.25 | 33.11 | 43.75 | 60.00 | 16.25 | QP |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary

# 4. RADIATED EMISSION TEST

## 4.1.Test Equipment

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

4.1.1.For Anechoic Chamber

Frequency rang: 30~1000MHz

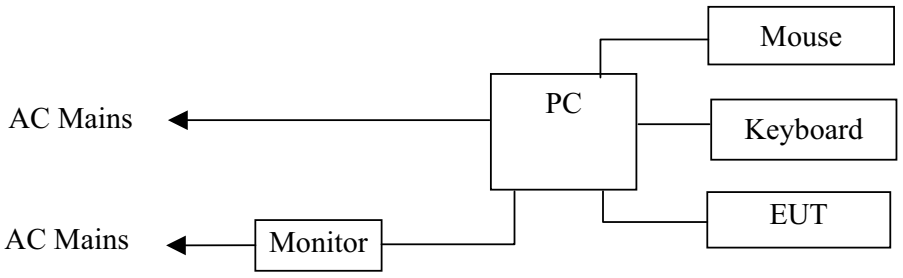
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | EMI Spectrum | HP | 85422E | 3625A00181 | May 15, 06 | 1 Year |
| 2. | Test Receiver | Rohde & Schwarz | ESVS20 | 830350/005 | May 15, 06 | 1 Year |
| 3. | Amplifier | HP | 8447D | 2944A07794 | Mar.12, 07 | 1/2 Year |
| 4. | Bilog Antenna | Schaffner | CBL6111C | 2598 | Feb.22, 07 | 1 Year |
| 5. | RF Cable | MIYAZAKI | 5D-2W | 3# Chamber No.1 | Jan. 18, 07 | 1/2 Year |
| 6. | RF Cable | MIYAZAKI | 5D-2W | 3# Chamber No.2 | Jan. 18,07 | 1/2 Year |
| 7. | RF Cable | FUJIKURAw | RG-55/U | 3# Chamber No.3 | Jan. 18,07 | 1/2 Year |
| 8. | RF Cable | FUJIKURA | RG-55/U | 3# Chamber No.4 | Jan. 18,07 | 1/2 Year |
| 9. | Coaxial Switch | Anritsu | MP59B | M73989 | Jan. 18,07 | 1/2 Year |

Frequency rang: above 1000MHz

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum | Agilent | E4407B | MY41440292 | May 15, 06 | 1 Year |
| 2. | Amp | HP | 8449B | 3008A00863 | May 15, 06 | 1 Year |
| 3. | Antenna | EMCO | 3115 | 9607-4877 | Jan. 23, 07 | 1.5 Year |
| 4. | HF Cable | Hubersuhne | Sucoflex104 | - | May 15, 06 | 1 Year |

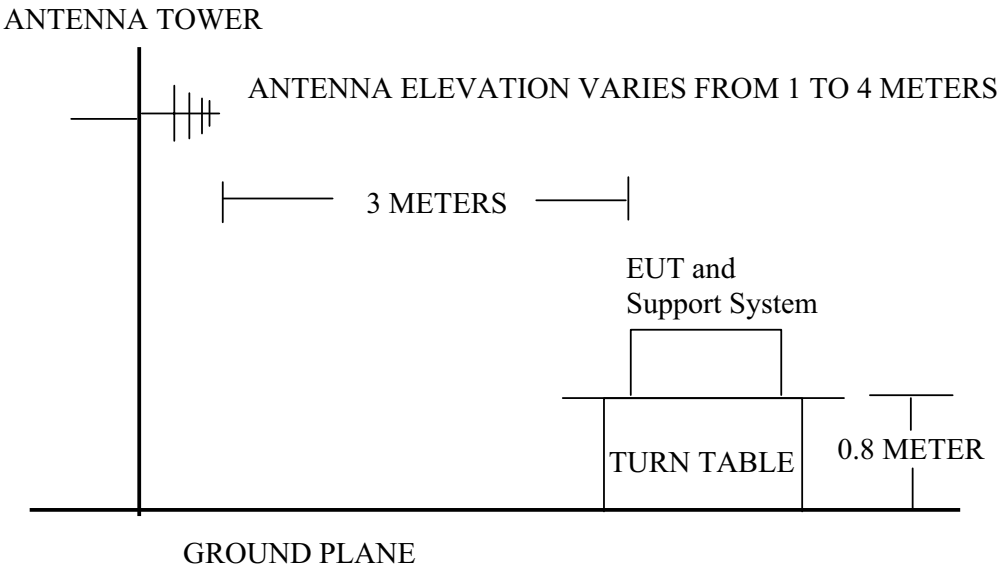
## 4.2.Block Diagram of Test Setup

4.2.1.Block diagram of connection between the EUT and simulators




***(EUT: Smart Senteo)***

4.2.2.In Anechoic Chamber




## 4.3.Radiated Emission Limit

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|---|---|---|---|
| | | μV/m | dB(μV)/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 |
| Above 1000 | 3 | 74.0 dB(μV)/m (Peak)<br>54.0 dB(μV)/m (Average) | |

Remark： (1) Emission level dBμV = 20 log Emission level μV/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.

## 4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1.Smart Senteo (EUT)

| | | |
|---|---|---|
| Model Number | : | 03-00099-21 |
| Serial Number | : | N/A |
| Manufacturer | : | Qingdao Haier Intelligent Electronics Co., Ltd. |

4.4.2.Support Equipment : As Tested Supporting System Detail, in Section 2.2.

## 4.5. Operating Condition of EUT

4.5.1. Setup the EUT as shown in Section 4.2..

4.5.2. Let the EUT work in test mode (TX) and test it.

## 4.6. 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. Power on the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120kHz.

frequency range from 30MHz to 1000 MHz.

The bandwidth of the VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW 10Hz VBW for average emission above 1GHz

The frequency range from 30MHz to $10^{th}$ harmonic are checked.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported with antenna in horizontal and vertical polarization on Section 4.7.

## 4.7. Radiated Emission Test Results

**PASS.**

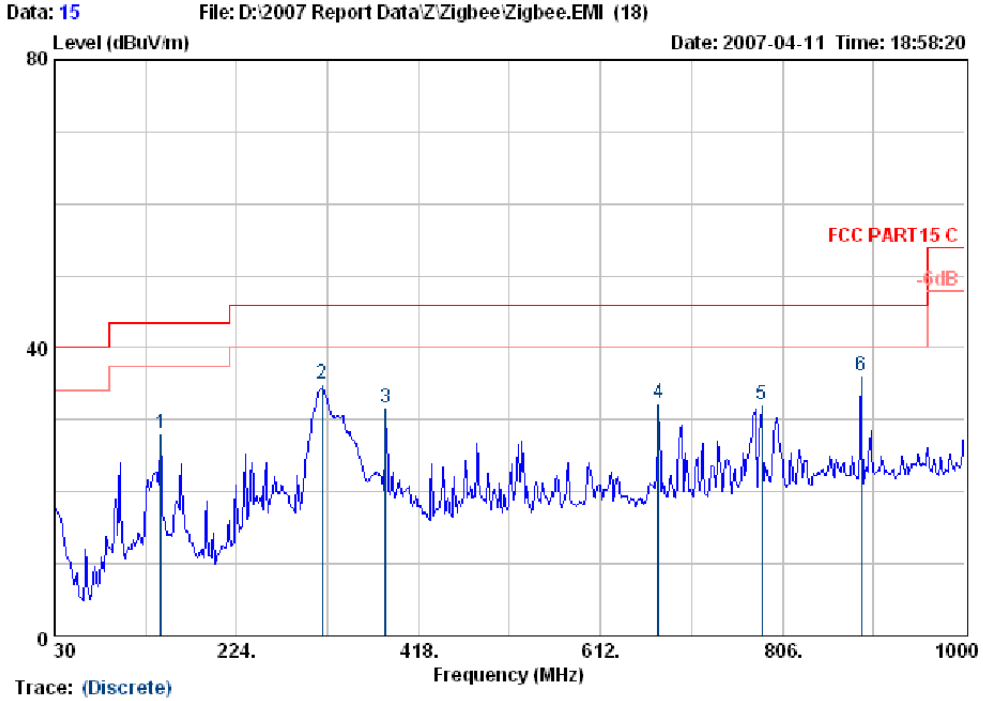
The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

All the emissions except fundamental from 18GHz~24GHz are at least 20dB below the limit, and do not record.

No.6,Ke Feng Road,Block 52,
Shenzhen Science&Industry Park
tel:+86-755-26639495
Fax:+86-755-26632877
Postcode:518057

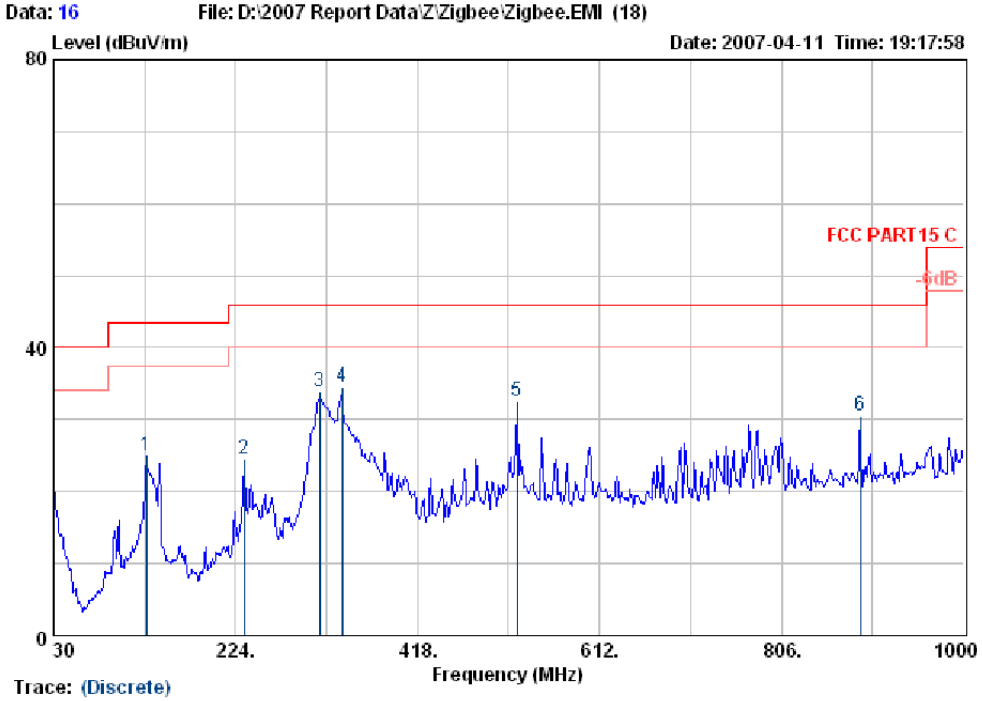



Site no. : Audix 3# Chamber Data no. : 15
Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL
Limit : FCC PART15 C
Env. / Ins. : 25°C/55% ESVS20 Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : Tx mode

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 143.49 | 11.93 | 1.16 | 14.88 | 27.97 | 43.50 | 15.53 | QP |
| 2 | 315.18 | 14.00 | 1.62 | 19.46 | 35.08 | 46.00 | 10.92 | QP |
| 3 | 383.08 | 15.96 | 1.78 | 13.89 | 31.63 | 46.00 | 14.37 | QP |
| 4 | 674.08 | 20.58 | 2.42 | 9.32 | 32.32 | 46.00 | 13.68 | QP |
| 5 | 783.69 | 21.98 | 2.35 | 7.77 | 32.10 | 46.00 | 13.90 | QP |
| 6 | 890.39 | 22.90 | 2.50 | 10.60 | 36.00 | 46.00 | 10.00 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6,Ke Feng Road,Block 52,
Shenzhen Science&Industry Park
tel:+86-755-26639495
Fax:+86-755-26632877
Postcode:518057

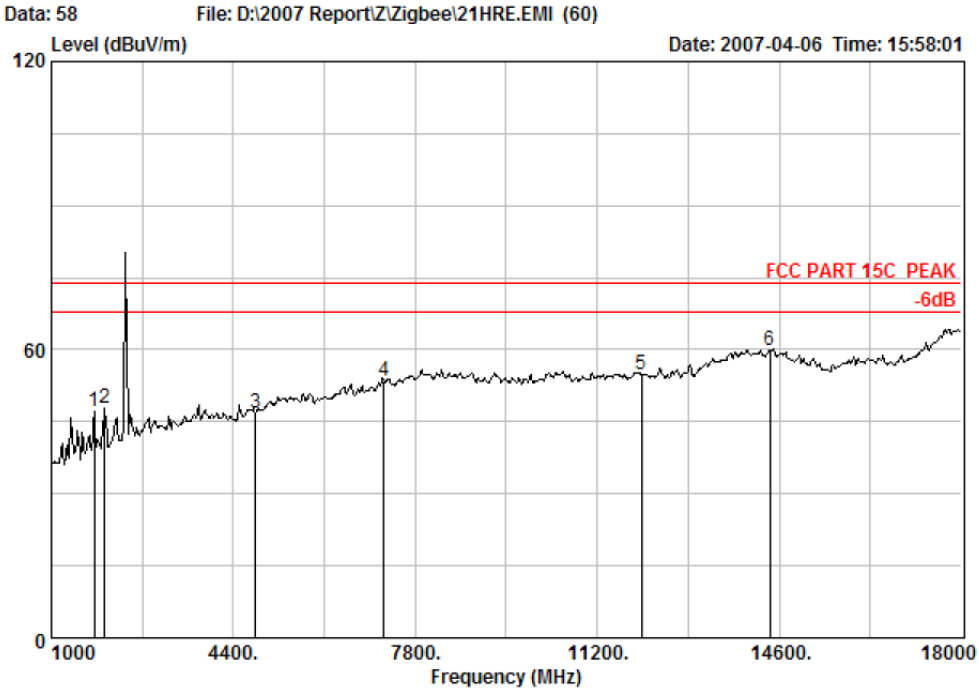



Site no. : Audix 3# Chamber Data no. : 16
Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL
Limit : FCC PART15 C
Env. / Ins. : 25*C/55% ESVS20 Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : Tx mode

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 128.94 | 12.04 | 1.11 | 11.89 | 25.04 | 43.50 | 18.46 | QP |
| 2 | 232.73 | 11.24 | 1.46 | 11.88 | 24.58 | 46.00 | 21.42 | QP |
| 3 | 313.24 | 13.96 | 1.74 | 18.21 | 33.91 | 46.00 | 12.09 | QP |
| 4 | 337.49 | 14.70 | 1.74 | 18.09 | 34.53 | 46.00 | 11.47 | QP |
| 5 | 523.73 | 18.40 | 2.09 | 12.00 | 32.49 | 46.00 | 13.51 | QP |
| 6 | 890.39 | 22.90 | 2.50 | 5.23 | 30.63 | 46.00 | 15.37 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

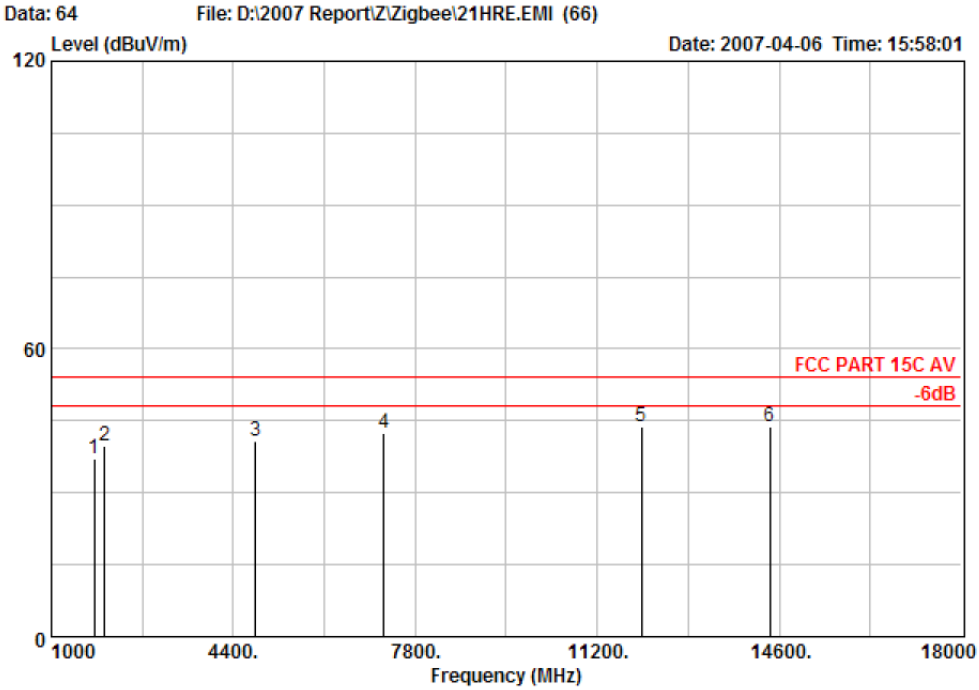



Site no. : Audix No.1 Chamber Data no. : 58
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1799.00 | 26.98 | 5.20 | 35.48 | 50.54 | 47.24 | 74.00 | 26.76 | Peak |
| 2 | 2003.00 | 28.06 | 5.62 | 35.30 | 49.48 | 47.86 | 74.00 | 26.14 | Peak |
| 3 | 4810.00 | 33.98 | 9.55 | 34.50 | 37.90 | 46.93 | 74.00 | 27.07 | Peak |
| 4 | 7215.00 | 37.36 | 10.77 | 34.44 | 39.75 | 53.44 | 74.00 | 20.56 | Peak |
| 5 | 12025.00 | 39.55 | 11.84 | 36.39 | 39.83 | 54.83 | 74.00 | 19.17 | Peak |
| 6 | 14430.00 | 42.24 | 12.42 | 35.49 | 40.63 | 59.80 | 74.00 | 14.20 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

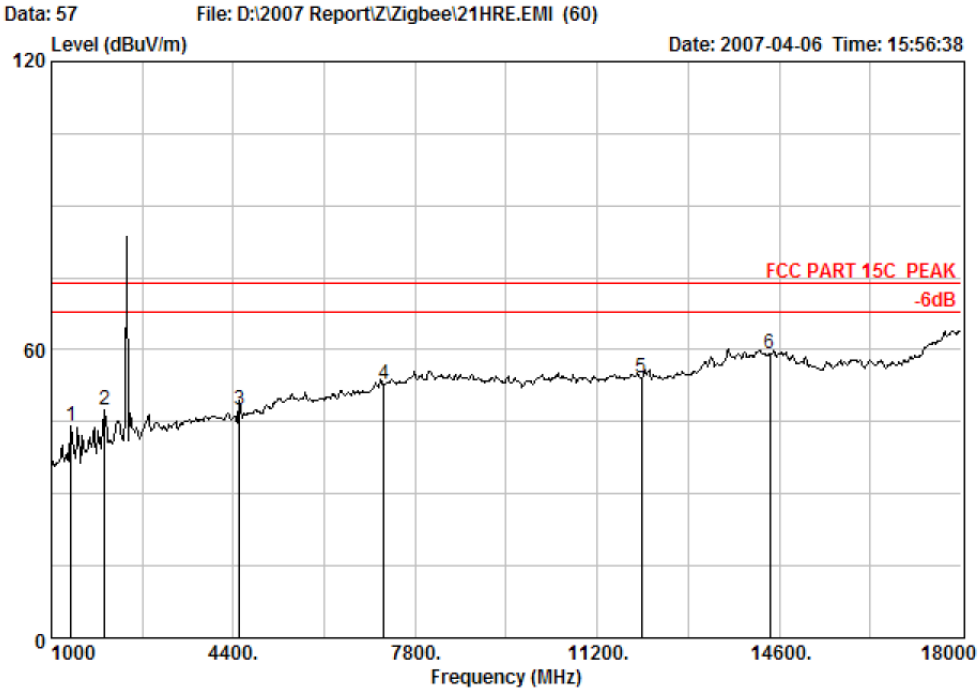



Site no. : Audix No.1 Chamber Data no. : 64
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1799.00 | 26.98 | 5.20 | 35.48 | 40.54 | 37.24 | 54.00 | 16.76 | Average |
| 2 | 2003.00 | 28.06 | 5.62 | 35.30 | 41.48 | 39.86 | 54.00 | 14.14 | Average |
| 3 | 4810.00 | 33.98 | 9.55 | 34.50 | 31.90 | 40.93 | 54.00 | 13.07 | Average |
| 4 | 7215.00 | 37.36 | 10.77 | 34.44 | 28.75 | 42.44 | 54.00 | 11.56 | Average |
| 5 | 12025.00 | 39.55 | 11.84 | 36.39 | 28.83 | 43.83 | 54.00 | 10.17 | Average |
| 6 | 14430.00 | 42.24 | 12.42 | 35.49 | 24.63 | 43.80 | 54.00 | 10.20 | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

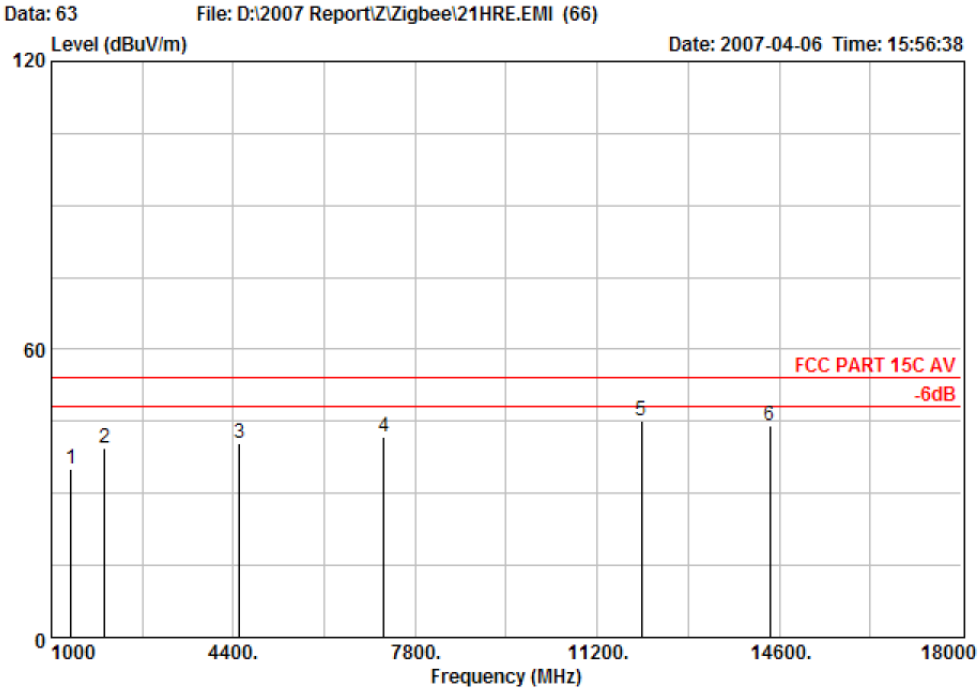



Site no. : Audix No.1 Chamber Data no. : 57
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1374.00 | 25.14 | 4.34 | 35.86 | 50.58 | 44.20 | 74.00 | 29.80 | Peak |
| 2 | 2003.00 | 28.06 | 5.62 | 35.30 | 49.16 | 47.54 | 74.00 | 26.46 | Peak |
| 3 | 4519.00 | 33.21 | 8.94 | 34.57 | 39.89 | 47.47 | 74.00 | 26.53 | Peak |
| 4 | 7215.00 | 37.36 | 10.77 | 34.44 | 39.23 | 52.92 | 74.00 | 21.08 | Peak |
| 5 | 12025.00 | 39.55 | 11.84 | 36.39 | 39.03 | 54.03 | 74.00 | 19.97 | Peak |
| 6 | 14430.00 | 42.24 | 12.42 | 35.49 | 39.84 | 59.01 | 74.00 | 14.99 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

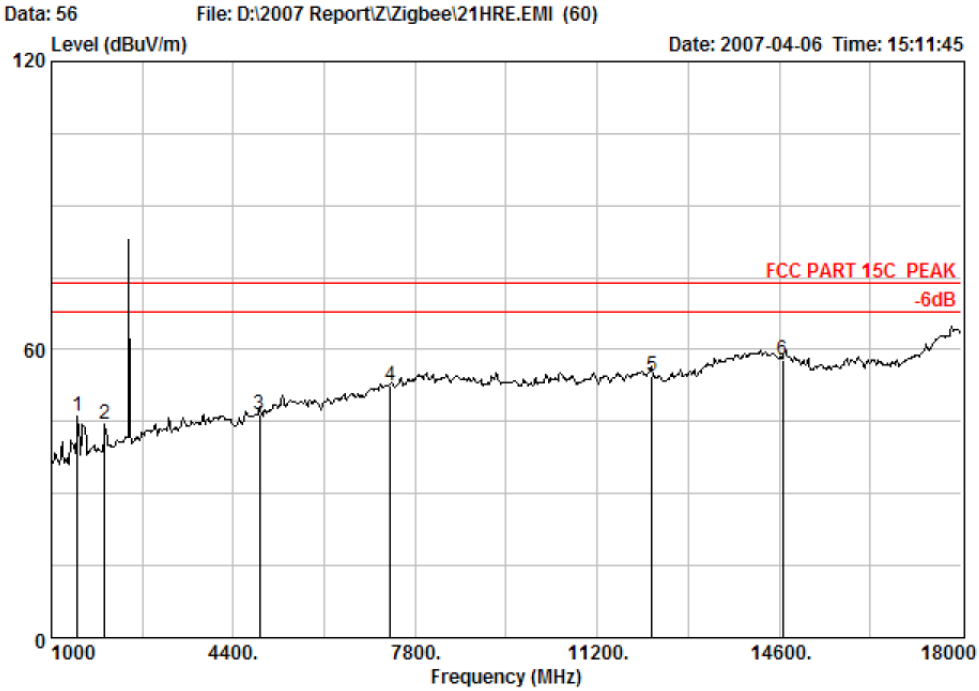



Site no. : Audix No.1 Chamber Data no. : 63
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1374.00 | 25.14 | 4.34 | 35.86 | 41.58 | 35.20 | 54.00 | 18.80 | Average |
| 2 | 2003.00 | 28.06 | 5.62 | 35.30 | 41.16 | 39.54 | 54.00 | 14.46 | Average |
| 3 | 4519.00 | 33.21 | 8.94 | 34.57 | 32.89 | 40.47 | 54.00 | 13.53 | Average |
| 4 | 7215.00 | 37.36 | 10.77 | 34.44 | 28.23 | 41.92 | 54.00 | 12.08 | Average |
| 5 | 12025.00 | 39.55 | 11.84 | 36.39 | 30.03 | 45.03 | 54.00 | 8.97 | Average |
| 6 | 14430.00 | 42.24 | 12.42 | 35.49 | 24.84 | 44.01 | 54.00 | 9.99 | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

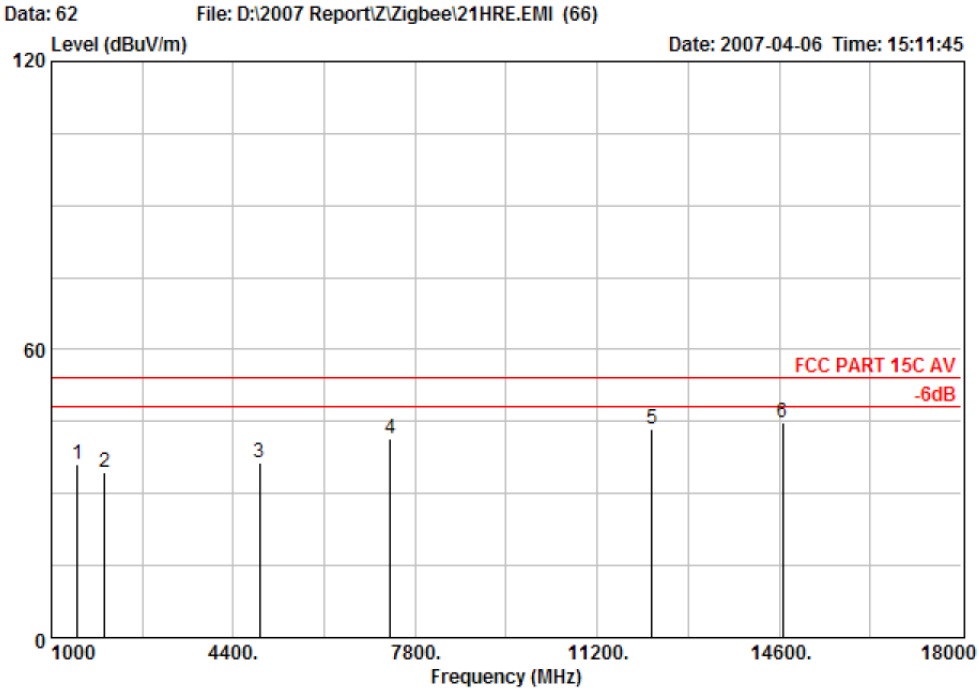



Site no. : Audix No.1 Chamber Data no. : 56
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH9

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1493.00 | 25.37 | 4.61 | 35.75 | 51.86 | 46.09 | 74.00 | 27.91 | Peak |
| 2 | 2003.00 | 28.06 | 5.62 | 35.30 | 46.15 | 44.53 | 74.00 | 29.47 | Peak |
| 3 | 4890.00 | 34.20 | 9.71 | 34.48 | 37.06 | 46.49 | 74.00 | 27.51 | Peak |
| 4 | 7335.00 | 37.55 | 10.83 | 34.47 | 38.60 | 52.51 | 74.00 | 21.49 | Peak |
| 5 | 12225.00 | 39.47 | 11.70 | 36.32 | 39.74 | 54.59 | 74.00 | 19.41 | Peak |
| 6 | 14670.00 | 41.78 | 12.28 | 35.36 | 39.05 | 57.75 | 74.00 | 16.25 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

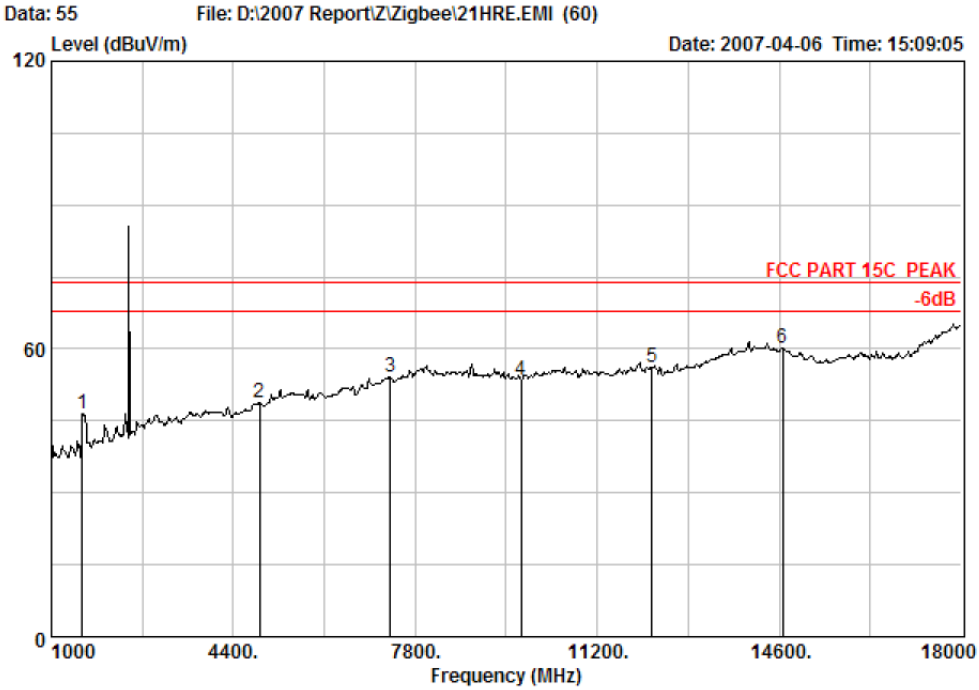



Site no. : Audix No.1 Chamber Data no. : 62
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH9

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1493.00 | 25.37 | 4.61 | 35.75 | 41.86 | 36.09 | 54.00 | 17.91 | Average |
| 2 | 2003.00 | 28.06 | 5.62 | 35.30 | 36.15 | 34.53 | 54.00 | 19.47 | Average |
| 3 | 4890.00 | 34.20 | 9.71 | 34.48 | 27.06 | 36.49 | 54.00 | 17.51 | Average |
| 4 | 7335.00 | 37.55 | 10.83 | 34.47 | 27.60 | 41.51 | 54.00 | 12.49 | Average |
| 5 | 12225.00 | 39.47 | 11.70 | 36.32 | 28.74 | 43.59 | 54.00 | 10.41 | Average |
| 6 | 14670.00 | 41.78 | 12.28 | 35.36 | 26.05 | 44.75 | 54.00 | 9.25 | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

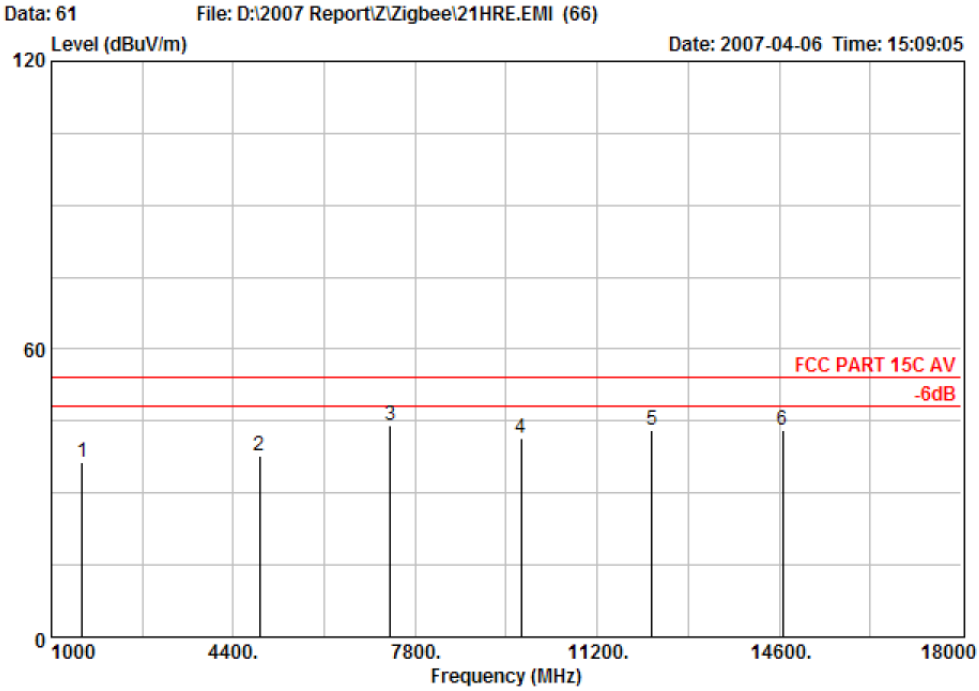



Site no. : Audix No.1 Chamber Data no. : 55
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH9

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1578.00 | 25.82 | 4.79 | 35.68 | 51.53 | 46.46 | 74.00 | 27.54 | Peak |
| 2 | 4890.00 | 34.20 | 9.71 | 34.48 | 39.25 | 48.68 | 74.00 | 25.32 | Peak |
| 3 | 7335.00 | 37.55 | 10.83 | 34.47 | 40.13 | 54.04 | 74.00 | 19.96 | Peak |
| 4 | 9780.00 | 38.01 | 11.55 | 36.02 | 40.00 | 53.54 | 74.00 | 20.46 | Peak |
| 5 | 12225.00 | 39.47 | 11.70 | 36.32 | 41.38 | 56.23 | 74.00 | 17.77 | Peak |
| 6 | 14670.00 | 41.78 | 12.28 | 35.36 | 41.52 | 60.22 | 74.00 | 13.78 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

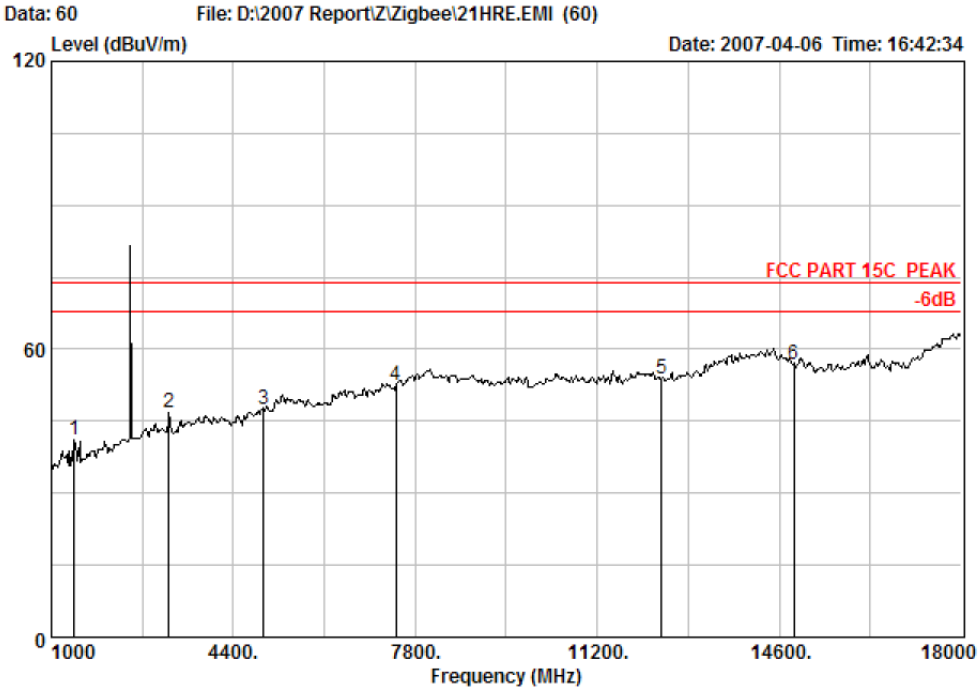



Site no. : Audix No.1 Chamber Data no. : 61
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH9

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1578.00 | 25.82 | 4.79 | 35.68 | 41.53 | 36.46 | 54.00 | 17.54 | Average |
| 2 | 4890.00 | 34.20 | 9.71 | 34.48 | 28.25 | 37.68 | 54.00 | 16.32 | Average |
| 3 | 7335.00 | 37.55 | 10.83 | 34.47 | 30.13 | 44.04 | 54.00 | 9.96 | Average |
| 4 | 9780.00 | 38.01 | 11.55 | 36.02 | 28.00 | 41.54 | 54.00 | 12.46 | Average |
| 5 | 12225.00 | 39.47 | 11.70 | 36.32 | 28.38 | 43.23 | 54.00 | 10.77 | Average |
| 6 | 14670.00 | 41.78 | 12.28 | 35.36 | 24.52 | 43.22 | 54.00 | 10.78 | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

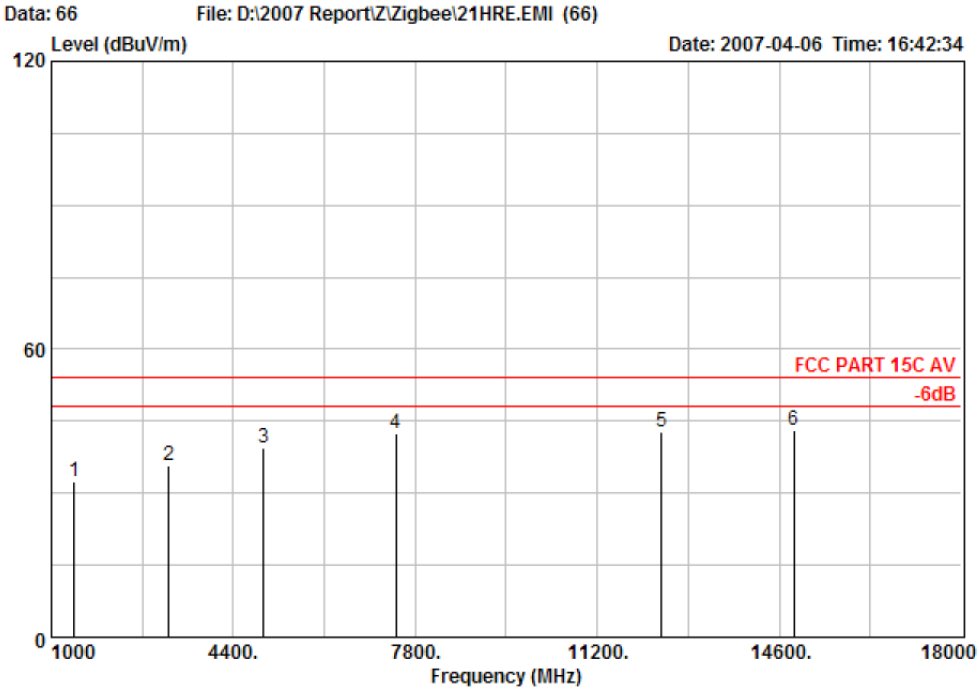



Site no. : Audix No.1 Chamber Data no. : 60
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH16

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1425.00 | 25.24 | 4.47 | 35.82 | 47.37 | 41.26 | 74.00 | 32.74 | Peak |
| 2 | 3193.00 | 31.52 | 7.56 | 34.94 | 42.72 | 46.86 | 74.00 | 27.14 | Peak |
| 3 | 4960.00 | 34.38 | 9.86 | 34.46 | 37.64 | 47.42 | 74.00 | 26.58 | Peak |
| 4 | 7440.00 | 37.72 | 10.90 | 34.49 | 38.40 | 52.53 | 74.00 | 21.47 | Peak |
| 5 | 12400.00 | 39.38 | 11.58 | 36.26 | 39.25 | 53.95 | 74.00 | 20.05 | Peak |
| 6 | 14880.00 | 41.15 | 12.14 | 35.26 | 38.96 | 56.99 | 74.00 | 17.01 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

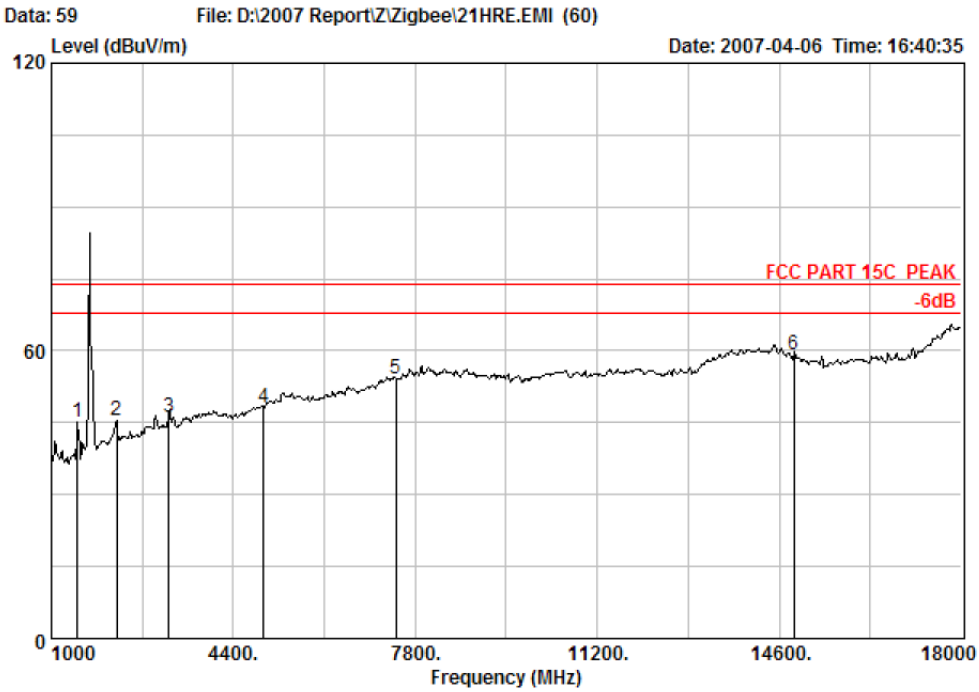



Site no. : Audix No.1 Chamber Data no. : 66
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH16

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1425.00 | 25.24 | 4.47 | 35.82 | 38.37 | 32.26 | 54.00 | 21.74 | Average |
| 2 | 3193.00 | 31.52 | 7.56 | 34.94 | 31.72 | 35.86 | 54.00 | 18.14 | Average |
| 3 | 4960.00 | 34.38 | 9.86 | 34.46 | 29.64 | 39.42 | 54.00 | 14.58 | Average |
| 4 | 7440.00 | 37.72 | 10.90 | 34.49 | 28.40 | 42.53 | 54.00 | 11.47 | Average |
| 5 | 12400.00 | 39.38 | 11.58 | 36.26 | 28.25 | 42.95 | 54.00 | 11.05 | Average |
| 6 | 14880.00 | 41.15 | 12.14 | 35.26 | 24.96 | 42.99 | 54.00 | 11.01 | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

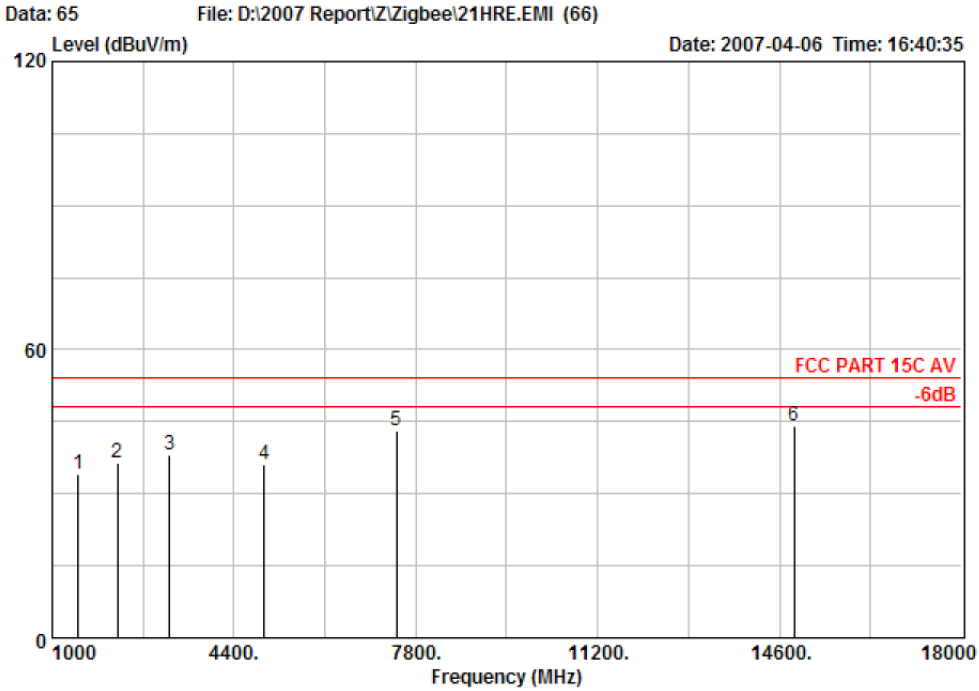



Site no. : Audix No.1 Chamber Data no. : 59
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH16

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1493.00 | 25.37 | 4.61 | 35.75 | 50.78 | 45.01 | 74.00 | 28.99 | Peak |
| 2 | 2224.00 | 28.58 | 5.94 | 35.23 | 46.18 | 45.47 | 74.00 | 28.53 | Peak |
| 3 | 3193.00 | 31.52 | 7.56 | 34.94 | 42.01 | 46.15 | 74.00 | 27.85 | Peak |
| 4 | 4960.00 | 34.38 | 9.86 | 34.46 | 38.46 | 48.24 | 74.00 | 25.76 | Peak |
| 5 | 7440.00 | 37.72 | 10.90 | 34.49 | 40.12 | 54.25 | 74.00 | 19.75 | Peak |
| 6 | 14880.00 | 41.15 | 12.14 | 35.26 | 41.17 | 59.20 | 74.00 | 14.80 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

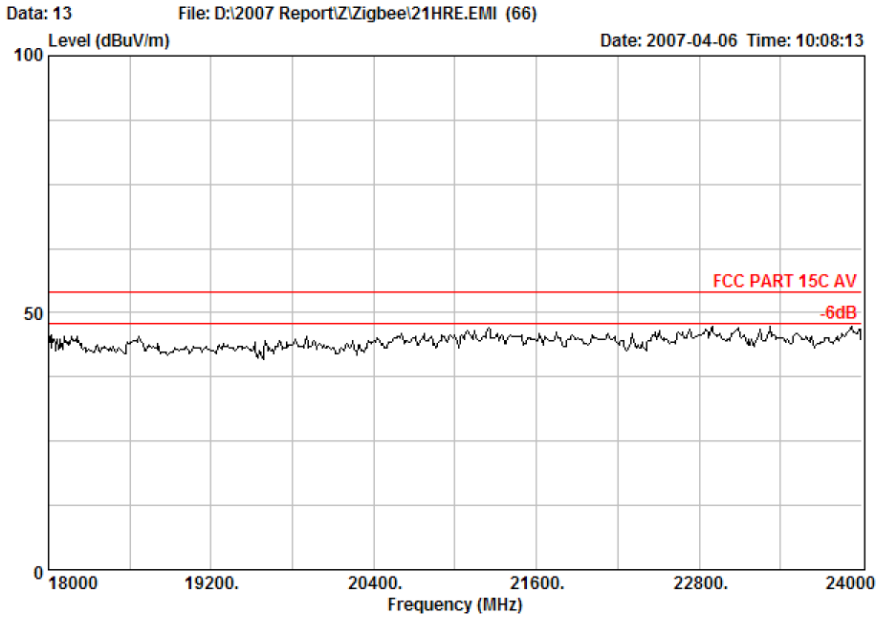



Site no. : Audix No.1 Chamber Data no. : 65
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH16

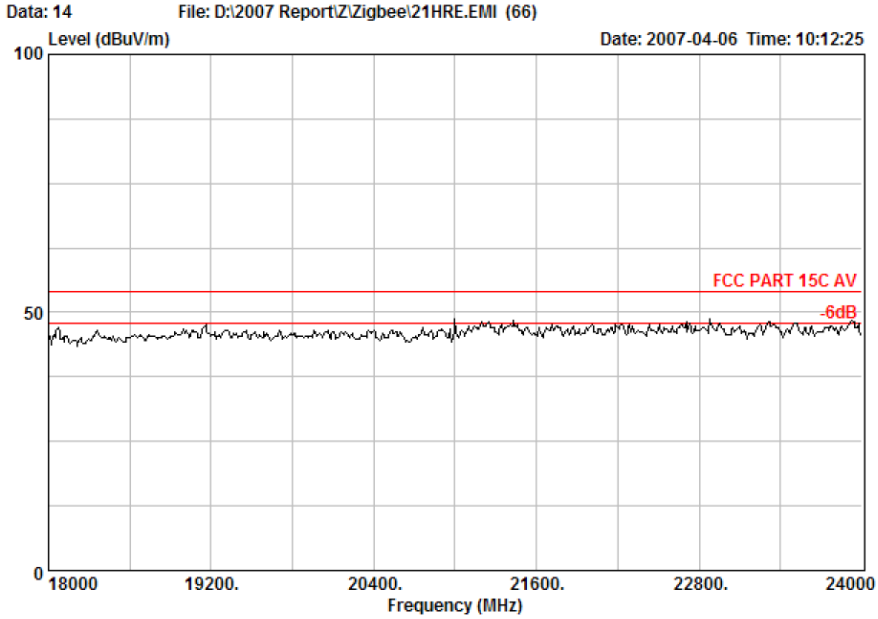
| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1493.00 | 25.37 | 4.61 | 35.75 | 39.78 | 34.01 | 54.00 | 19.99 | Average |
| 2 | 2224.00 | 28.58 | 5.94 | 35.23 | 37.18 | 36.47 | 54.00 | 17.53 | Average |
| 3 | 3193.00 | 31.52 | 7.56 | 34.94 | 34.01 | 38.15 | 54.00 | 15.85 | Average |
| 4 | 4960.00 | 34.38 | 9.86 | 34.46 | 26.46 | 36.24 | 54.00 | 17.76 | Average |
| 5 | 7440.00 | 37.72 | 10.90 | 34.49 | 29.12 | 43.25 | 54.00 | 10.75 | Average |
| 6 | 14880.00 | 41.15 | 12.14 | 35.26 | 26.17 | 44.20 | 54.00 | 9.80 | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

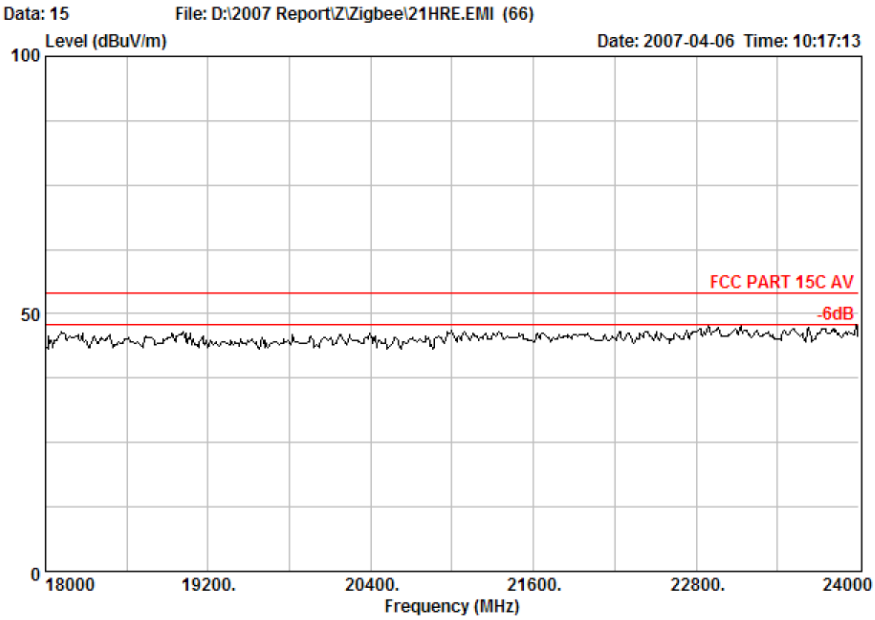



Site no. : 1# Chamber Data no. : 13
Dis. / Ant. : 3m 3115FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH1

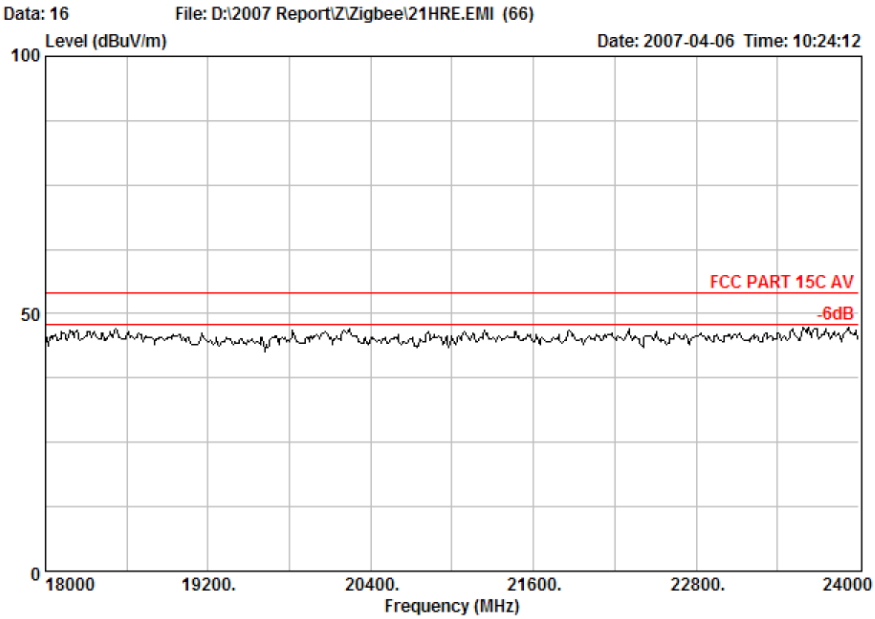



Site no. : 1# Chamber Data no. : 14
Dis. / Ant. : 3m 3115FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH1

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

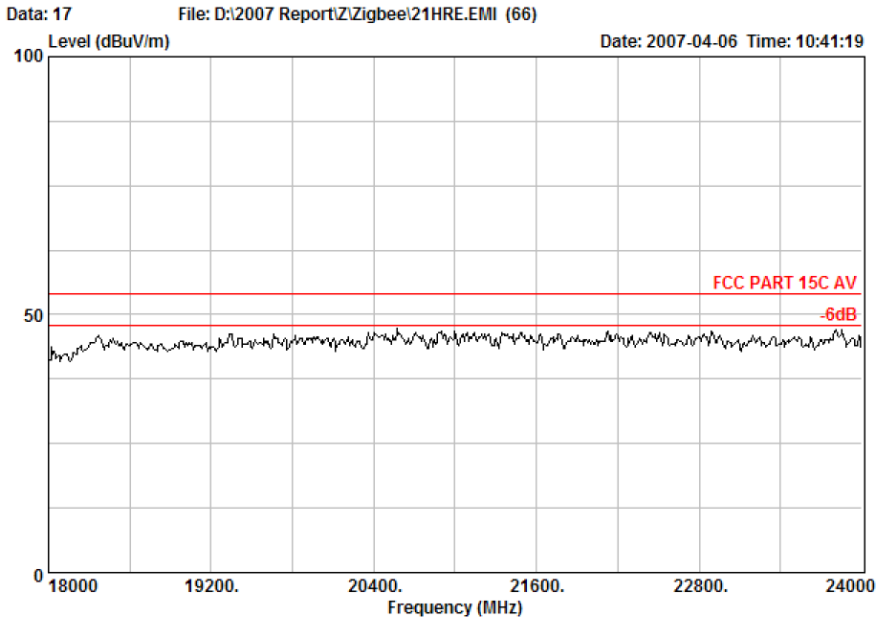



Site no. : 1# Chamber Data no. : 15
Dis. / Ant. : 3m 3115FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH9

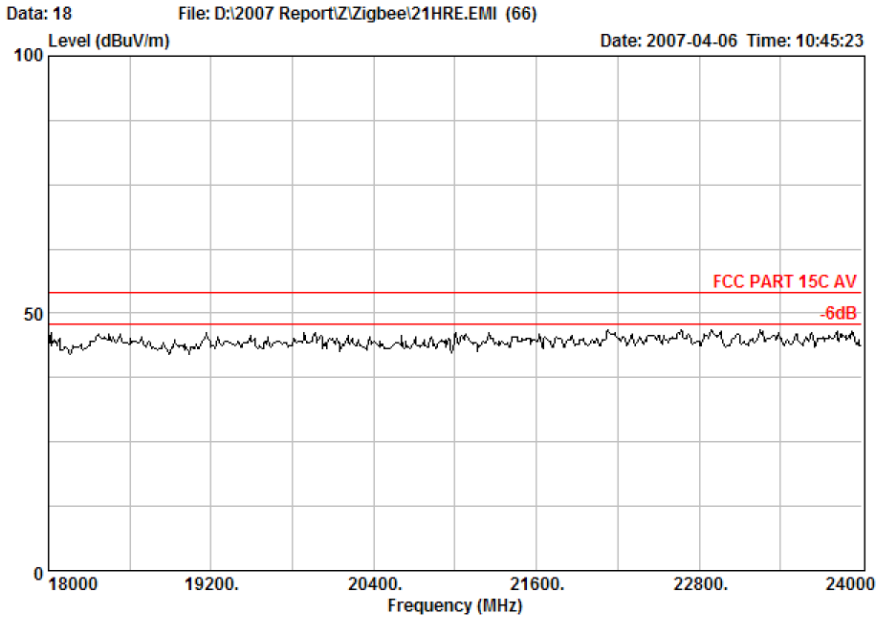



Site no. : 1# Chamber Data no. : 16
Dis. / Ant. : 3m 3115FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH9

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057




```
Site no.      : 1# Chamber                  Data no.   : 17
Dis. / Ant.   : 3m   3115FACTOR             Ant. pol.  : HORIZONTAL
Limit         : FCC PART 15C AV
Env. / Ins.   : 23*C/54%                    Engineer   : Jamy
EUT           : Smart Senteo   M/N:03-00099-21
Power Rating  : DC 5V From PC Input 120V/60Hz
Test Mode     : TX Mode CH16
```




```
Site no.      : 1# Chamber                  Data no.   : 18
Dis. / Ant.   : 3m   3115FACTOR             Ant. pol.  : VERTICAL
Limit         : FCC PART 15C AV
Env. / Ins.   : 23*C/54%                    Engineer   : Jamy
EUT           : Smart Senteo   M/N:03-00099-21
Power Rating  : DC 5V From PC Input 120V/60Hz
Test Mode     : TX Mode CH16
```

# 5. 6DB BANDWIDTH TEST

## 5.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum | Agilent | E4407B | MY41440292 | May 15, 06 | 1 Year |
| 2. | Amp | HP | 8449B | 3008A00863 | May 15, 06 | 1 Year |
| 3. | Antenna | EMCO | 3115 | 9607-4877 | Jan. 23, 07 | 1.5 Year |
| 4. | HF Cable | Hubersuhne | Sucoflex104 | - | May 15, 06 | 1 Year |

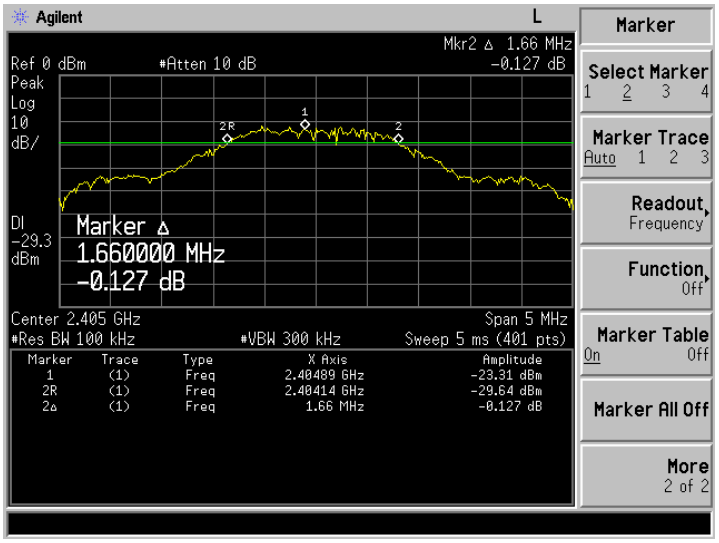
## 5.2.Test Information

| | |
|---|---|
| EUT: | Smart Senteo |
| M/N: | 03-00099-21 |
| Test Date: | Apr.09, 2007 |
| Ambient Temperature: | 24℃ |
| Relative Humidity: | 54% |
| Test standard: | FCC PART 15C: 15.247 |
| Test mode: | Transmitting |
| Test Frequency: | CH1: 2405MHz CH9: 2445MHz CH16: 2480MHz |
| Test By: | Jamy |

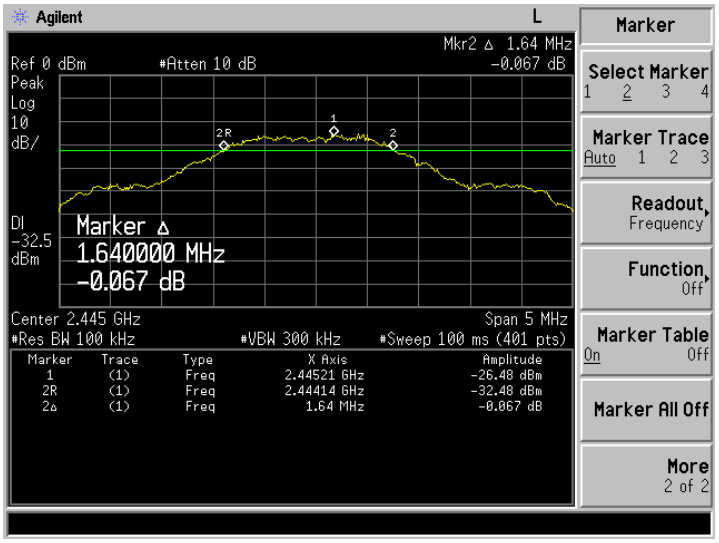
## 5.3.Test Results

| CH | 6dB Bandwidth (MHz) | Limit | Conclusion |
|---|---|---|---|
| 1 | 1.66 | >500 | PASS |
| 9 | 1.64 | >500 | PASS |
| 16 | 1.65 | >500 | PASS |

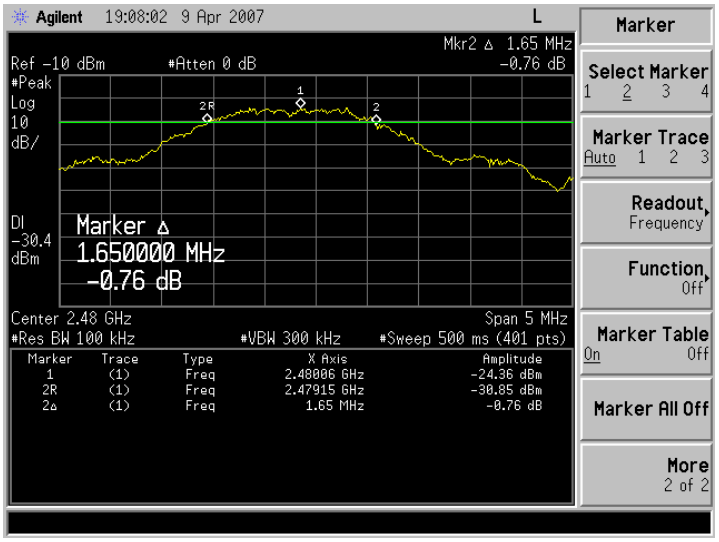
Test CH1: 2405MHz




Test CH9: 2445MHz




Test CH16: 2480MHz



# 6. OUTPUT POWER TEST

## 6.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum | Agilent | E4407B | MY41440292 | May 15, 06 | 1 Year |
| 2. | Amp | HP | 8449B | 3008A00863 | May 15, 06 | 1 Year |
| 3. | Antenna | EMCO | 3115 | 9607-4877 | Jan. 23, 07 | 1.5 Year |
| 4. | HF Cable | Hubersuhne | Sucoflex104 | - | May 15, 06 | 1 Year |

## 6.2.Test Information

| | |
|---|---|
| EUT: | Smart Senteo |
| M/N: | 03-00099-21 |
| Test Date: | Apr.09, 2007 |
| Ambient Temperature: | 24℃ |
| Relative Humidity: | 54% |
| Test standard: | FCC PART 15C: 15.247 |
| Test mode: | Transmitting |
| Test Frequency: | CH1: 2405MHz CH9: 2445MHz CH16: 2480MHz |
| Test By: | Jamy |

## 6.3.Test Procedure

Measure the transmitter output power (dBμV/m) at 3m with spectrum analyzer using 2MHz RBW and 3MHz VBW

This test was performed with EUT in X, Y, Z position and with antenna on vertical and horizontal polarization, record the worse cases for final output power calculate

## 6.4.Test Results

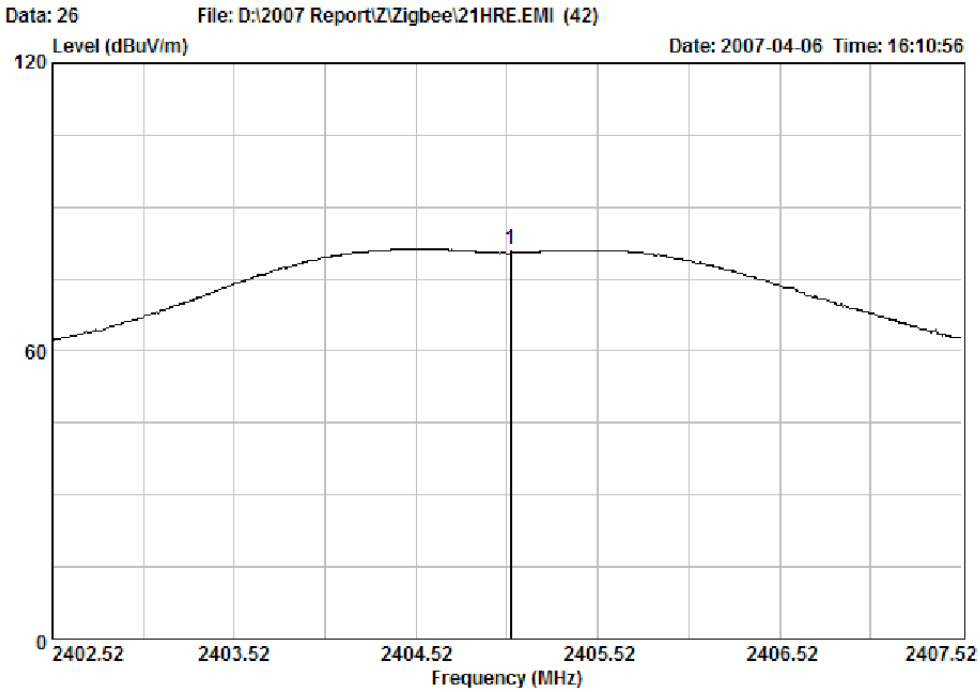
| CH | Field Strength at a distance of 3 meters (FS) (dBμV/m) | Output power (OP) (dBm) | Limit (dBm) | Conclusion |
|---|---|---|---|---|
| 1 | 81.38 | -16.86 | 30 | PASS |
| 9 | 80.13 | -18.11 | 30 | PASS |
| 16 | 81.82 | -16.42 | 30 | PASS |

Note: The following formula may be used to convert field strength (FS) in volts/m to transmitter output power (OP) in watts:

$$OP = (FS*D)^2 / 30*G$$

D is the distance in meters between the two antennas and G is the antenna numerical gain.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

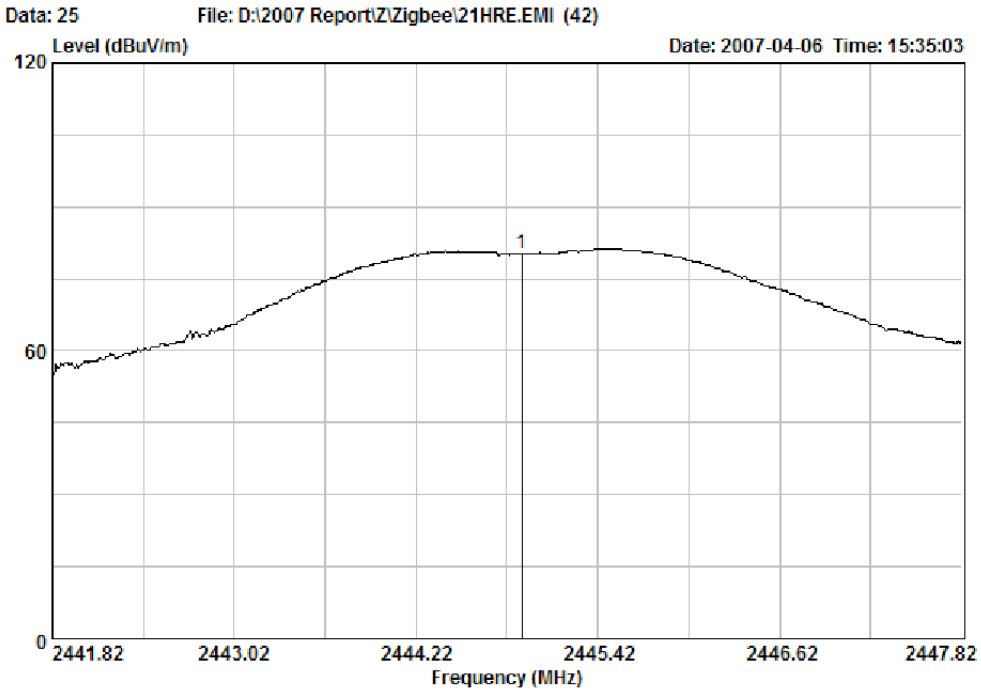



Site no. : Audix No.1 Chamber Data no. : 26
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. :
Limit :
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2405.04 | 29.03 | 6.20 | 35.18 | 81.33 | 81.38 | 500.00 | 418.62 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

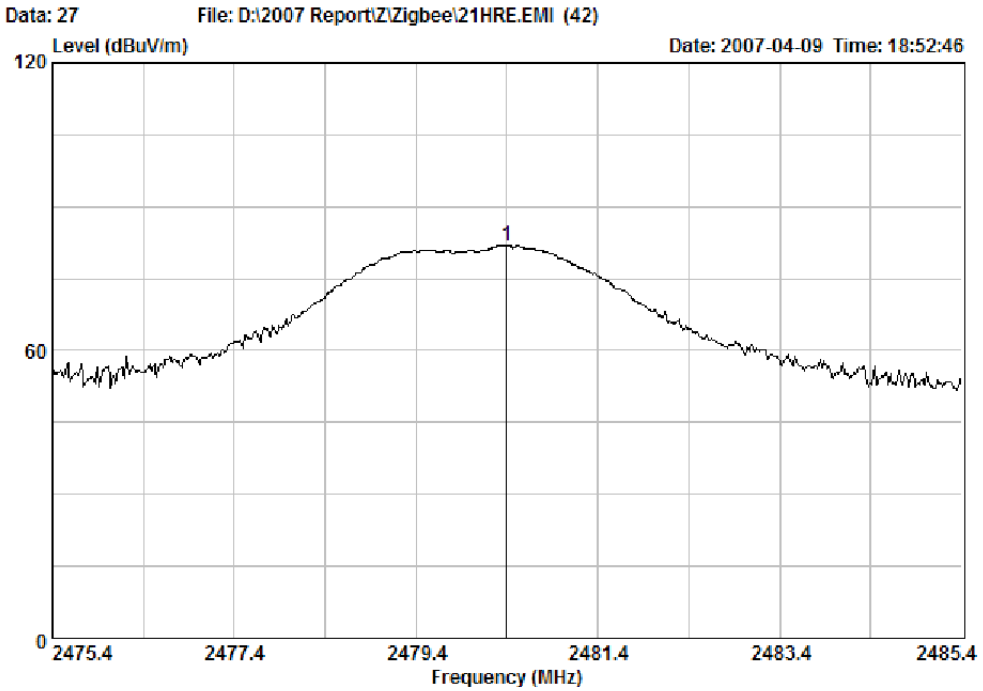



Site no. : Audix No.1 Chamber Data no. : 25
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. :
Limit :
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH9

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2444.92 | 29.11 | 6.25 | 35.17 | 79.94 | 80.13 | 500.00 | 419.87 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057




Site no. : Audix No.1 Chamber Data no. : 27
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. :
Limit :
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH16

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2480.40 | 29.19 | 6.30 | 35.16 | 81.49 | 81.82 | 500.00 | 418.18 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

# 7. BAND EDGE COMPLIANCE TEST

## 7.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum | Agilent | E4407B | MY41440292 | May 15, 06 | 1 Year |
| 2. | Amp | HP | 8449B | 3008A00863 | May 15, 06 | 1 Year |
| 3. | Antenna | EMCO | 3115 | 9607-4877 | Jan. 23, 07 | 1.5 Year |
| 4. | HF Cable | Hubersuhne | Sucoflex104 | - | May 15, 06 | 1 Year |

## 7.2.Test Information

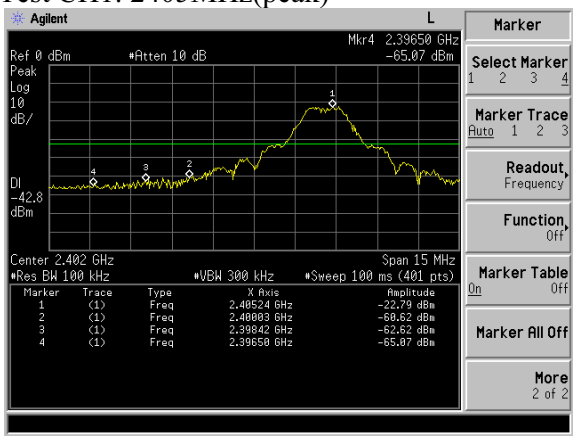
| | |
|---|---|
| EUT: | Smart Senteo |
| M/N: | 03-00099-21 |
| Test Date: | Apr.09, 2007 |
| Ambient Temperature: | 24℃ |
| Relative Humidity: | 54% |
| Test standard: | FCC PART 15C: 15.247 |
| Test mode: | Transmitting |
| Test Frequency: | CH1: 2405MHz CH9: 2445MHz CH16: 2480MHz |
| Test By: | Jamy |

NOTE: This test was performed with antenna in horizontal and the maximum value would obtained in the position.

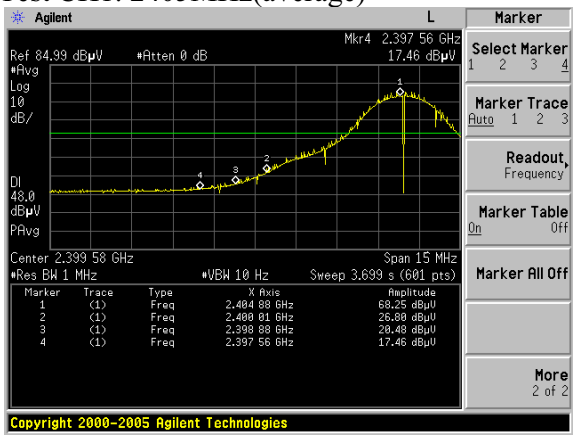
## 7.3.Test Results

Pass

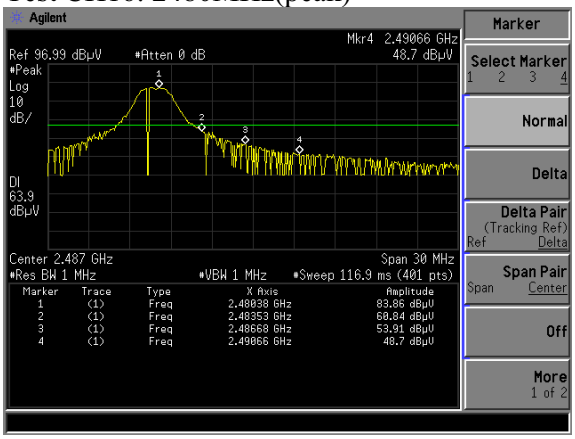
Test CH1: 2405MHz(peak)



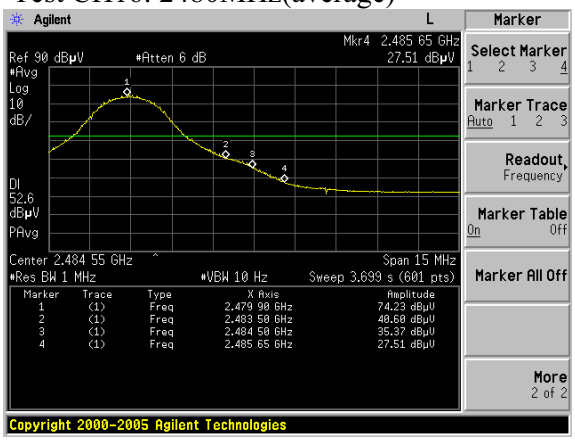

Test CH1: 2405MHz(average)




Test CH16: 2480MHz(peak)




Test CH16: 2480MHz(average)



# 8. POWER SPECTRAL DENSITY TEST

## 8.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum | Agilent | E4407B | MY41440292 | May 15, 06 | 1 Year |
| 2. | Amp | HP | 8449B | 3008A00863 | May 15, 06 | 1 Year |
| 3. | Antenna | EMCO | 3115 | 9607-4877 | Jan. 23, 07 | 1.5 Year |
| 4. | HF Cable | Hubersuhne | Sucoflex104 | - | May 15, 06 | 1 Year |

## 8.2.Test Information

| | |
|---|---|
| EUT: | Smart Senteo |
| M/N: | 03-00099-21 |
| Test Date: | Apr.09, 2007 |
| Ambient Temperature: | 24℃ |
| Relative Humidity: | 54% |
| Test standard: | FCC PART 15C: 15.247 |
| Test mode: | Transmitting |
| Test Frequency: | CH1: 2405MHz CH9: 2445MHz CH16: 2480MHz |
| Test By: | Jamy |

## 8.3.Test Procedure

(1). Measure the transmitter power spectral at a distance of 3 meters with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time= span/3kHz
(2). Use the following formula to convert measured power spectral density (dBμV/m*3kHz) to transmitter output power spectral density

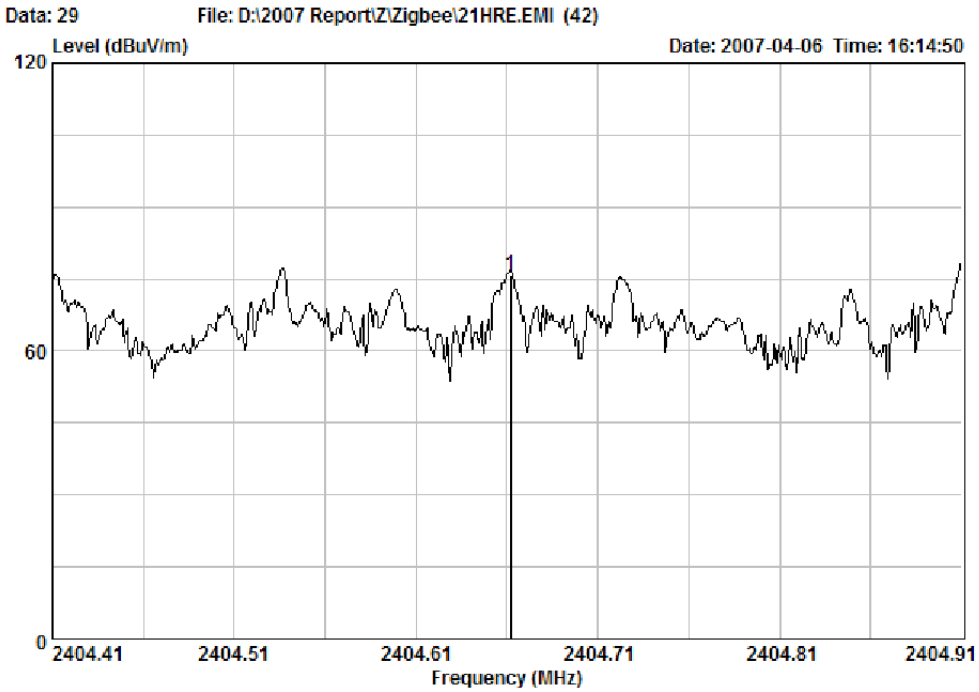
$$PD = (MPD*D)^2 / 30*G$$

PD is the transmitter output power spectral density. MPD is the measured power spectral density at 3m. D is the distance between the EUT antenna and test antenna, D in here is 3m. G is the antenna numerical gain.

## 8.4.Test Results

| CH | Measured power spectral density at 3m (dBμV/m*3kHz) | Antenna numerical gain | Power spectral density (dBm/3kHz) | Limit (dBm/3kHz) | Conclusion |
|---|---|---|---|---|---|
| 1 | 75.98 | 2 | -22.26 | 8 | PASS |
| 9 | 72.16 | 2 | -26.08 | 8 | PASS |
| 16 | 73.24 | 2 | -25.00 | 8 | PASS |

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

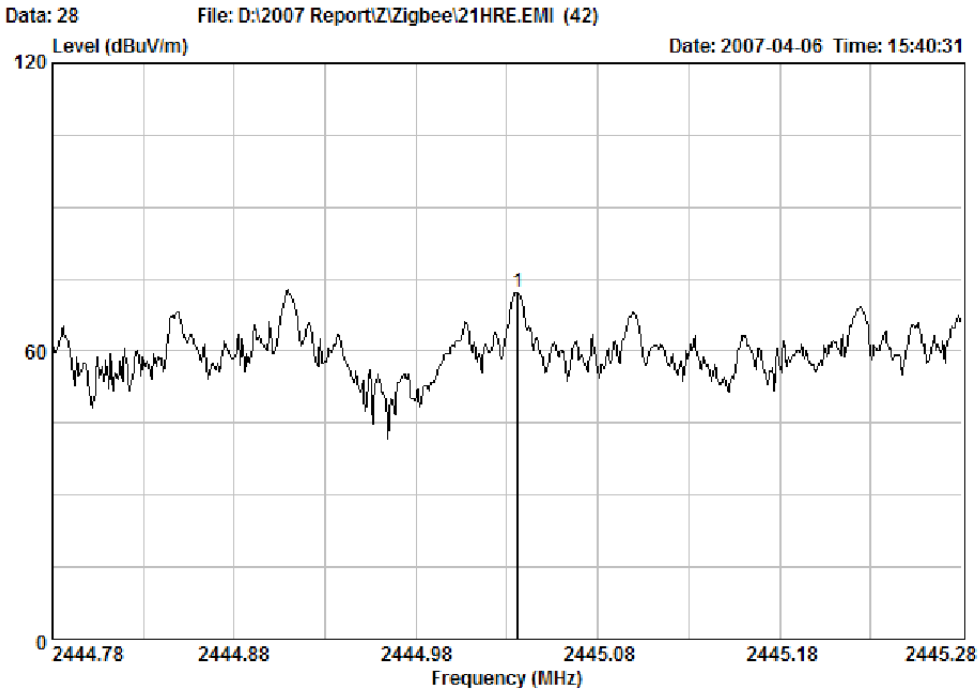



Site no. : Audix No.1 Chamber Data no. : 29
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. :
Limit :
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH1

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2404.66 | 29.03 | 6.20 | 35.18 | 75.93 | 75.98 | 500.00 | 424.02 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

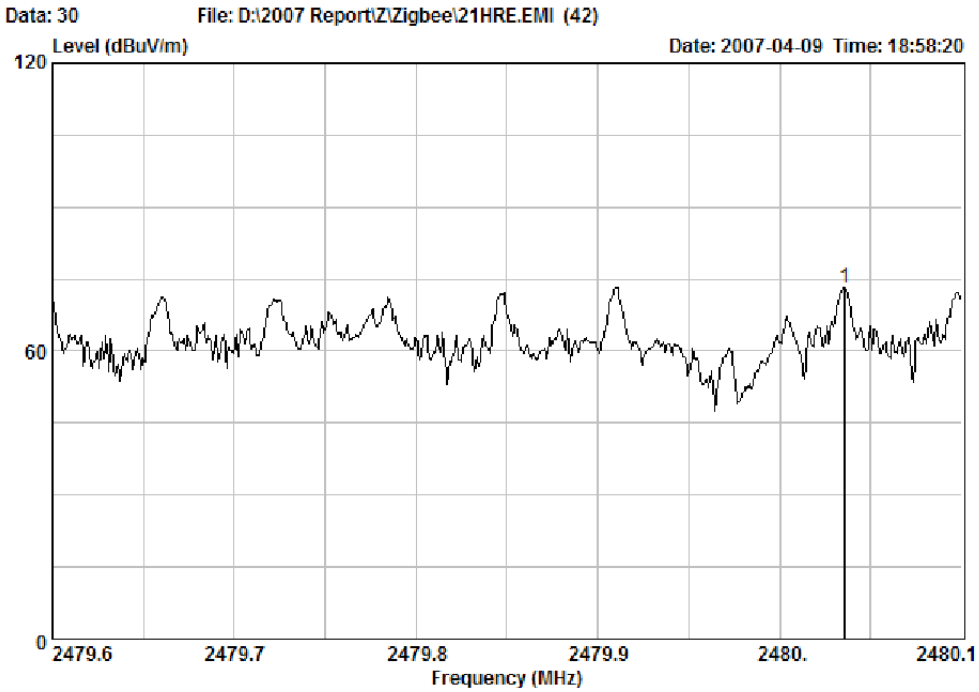



Site no. : Audix No.1 Chamber Data no. : 28
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. :
Limit :
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH9

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2445.04 | 29.11 | 6.25 | 35.17 | 71.97 | 72.16 | 500.00 | 427.84 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057




Site no. : Audix No.1 Chamber Data no. : 30
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. :
Limit :
Env. / Ins. : 23*C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From PC Input 120V/60Hz
Test Mode : TX Mode CH16

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Amp Factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2480.04 | 29.19 | 6.30 | 35.16 | 72.91 | 73.24 | 500.00 | 426.76 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

# 9. MPE ESTIMATION

## 9.1.Limit for General Population / Uncontrolled Exposures

| Frequency | Power density (mW/cm²) | Averaging time (minutes) |
|---|---|---|
| 300MHz~1.5GHz | F/1500 | 30 |
| 1.5GHz~100GHz | 1.0 | 30 |

| Frequency (MHz) | Power density (mW/cm²) | Averaging time (minutes) |
|---|---|---|
| 2405 | 1.0 | 30 |
| 2445 | 1.0 | 30 |
| 2480 | 1.0 | 30 |

Note: F = Frequency in MHz

## 9.2.Estimation Result

| CH | Frequency (MHz) | Peak output power (dBm) | Antenna gain (dBi) | Antenna gain (Linear) |
|---|---|---|---|---|
| 1 | 2405 | -16.86 | 3 | 2 |
| 9 | 2445 | -18.11 | 3 | 2 |
| 16 | 2480 | -16.42 | 3 | 2 |

| CH | Frequency (MHz) | Peak output power to antenna (mW) | Power density at 20cm (mW/ cm²) |
|---|---|---|---|
| 1 | 2405 | 0.0206 | $8.16*10^{-6}$ |
| 9 | 2445 | 0.0155 | $6.17*10^{-6}$ |
| 16 | 2480 | 0.0228 | $9.15*10^{-6}$ |

# 10.DEVIATION TO TEST SPECIFICATIONS

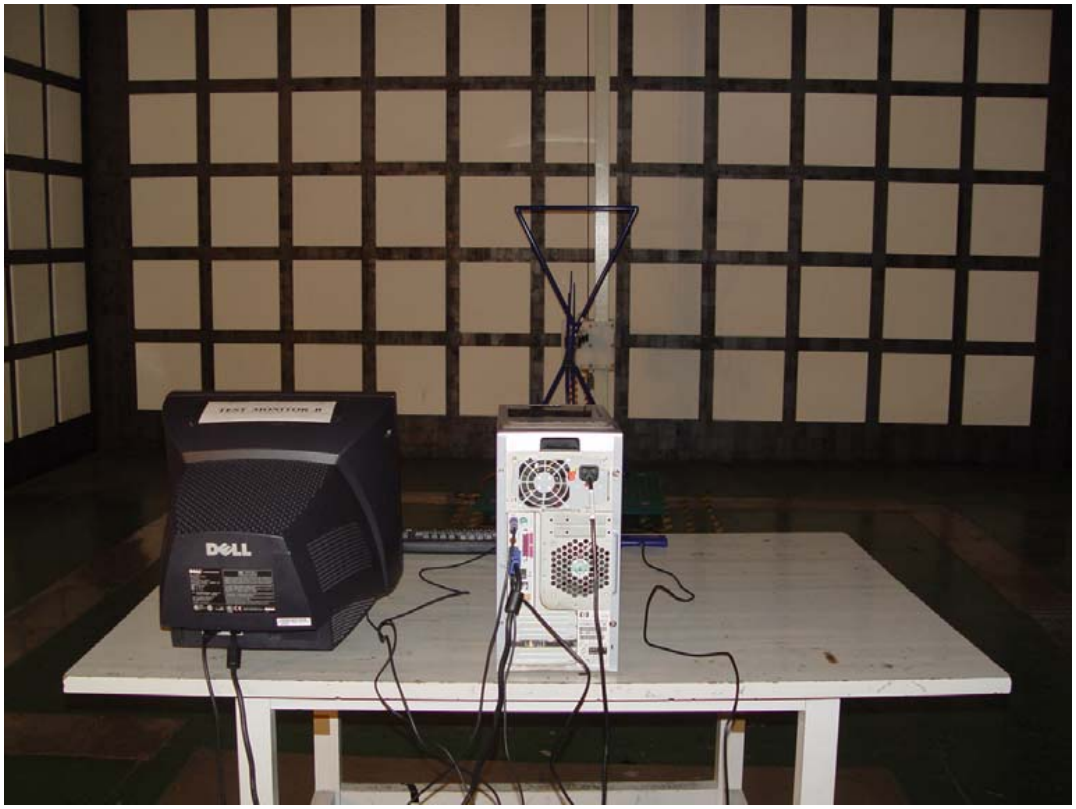
[ NONE]

# 11.PHOTOGRAPH

## 11.1.Photos of Power Line Conducted Emission Test

## 11.2.Photos of Radiated Emission Test

30-1000MHz



Above 1000MHz