

SMART Technologies Inc.

Smart Senteo

Model Number: 03-00099-21

Prepared for : SMART Technologies Inc.
1207-11Ave SW, Suite 300, Calgary, AB, Canada.

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-F07432
Date of Test : Oct.11, 2007
Date of Report : Nov.02, 2007

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TEST REPORT CERTIFICATION

Applicant : SMART Technologies Inc.
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 Computer

Test Procedure Used:

Radiated Spurious Emission Test: FCC Part 15C: 15.209/15.247(d)

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.

Date of Test : Oct. 11, 2007

Prepared by : *Nancy Lee*
Nancy Lee / Assistant

Reviewer : *Iceman Hu*
Iceman Hu / Supervisor



Approved & Authorized Signer : Ken Lu / Deputy Manager

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
Radiated Spurious Emission Test	FCC Part 15C:15.209 FCC Part 15C:15.247(d)	PASS
N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	:	Smart Senteo
Model No.	:	03-00099-21
Applicant	:	SMART Technologies Inc. 1207-11Ave SW, Suite 300, Calgary,AB, Canada.
Manufacturer	:	Qingdao Haier Intelligent Electronics Co., Ltd.
Power	:	DC 5V
Operation frequency	:	2402-2479MHz
Modulation Technology	:	FHSS
Antenna Type	:	Integral
Antenna Gain	:	3dBi
Date of Test	:	Oct.11, 2007
Date of Receipt	:	Oct.08, 2007
Sample Type	:	Series production

2.2. Tested Supporting System Details

2.2.1. PC

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

2.2.2. MONITOR

EMC CODE : ACS-EMC-LM04R
M/N : 1907FPt
S/N : CN-009759-71618-6AP-ACPP
Manufacturer : DELL
Data Cable (VGA) : Shielded, Detachabled, 2.0m
Data Cable (DVI) : Shielded, Detachabled, 2.0m
Power Cord : Unshielded, Detachabled, 1.8m
FCC ID : By DoC
BSMI ID : R3A002

2.2.3. USB KEYBOARD

EMC CODE : ACS-EMC-K05R
M/N : HP3310
Manufacturer : HP
Data Cable : Shielded, Undetachabled, 2.7m
FCC ID : By DoC
BSMI ID : N/A

2.2.4. USB MOUSE

EMC CODE : ACS-EMC-M05R
M/N : N3+ Optical
S/N : K043240960
Manufacturer : HP
Data Cable : Shielded, Undetachabled, 1.8m
FCC ID : By DoC
BSMI ID : R31258

2.3. Test Facility

Site Description	
3m Anechoic Chamber	: Certificated by FCC, USA Registration Number: 90454 Jun. 13, 2006
3m & 10m Anechoic Chamber	: Certificated by FCC, USA Registration Number: 794232 Jan. 31, 2007
EMC Lab.	: Certificated by DATech, German Registration Number: DAT-P-091/99-01 Feb. 02, 2004
	Certificated by NVLAP, USA NVLAP Code: 200372-0 Apr.01, 2006
	Certificated by Nemko, Norway Aut. No.: ELA135 April. 22, 2004
	Certificated by Industry Canada Registration Number: IC 5183A-1 Aug.10.2007
Name of Firm	: Audix Technology (Shenzhen) Co., Ltd.
Site Location	: No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

2.4. Measurement Uncertainty

No.	Item	Uncertainty
1.	Uncertainty for Conducted Emission Test	1.22dB
2.	Uncertainty for Radiated Emission Test<1GHz	4.62dB
3.	Uncertainty for Radiated Emission Test>1GHz	4.79dB
4.	Uncertainty for conducted power measure	0.3265
5.	Uncertainty for Peak Power Density	0.3372
6.	Uncertainty for Conducted Spurious Emission	0.3442
7.	Uncertainty for Bandwidth	1.0206×10^{-6}

3. RADIATED EMISSION TEST

3.1. Test Equipment

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

3.1.1. For Anechoic Chamber

Frequency rang: 30~1000MHz

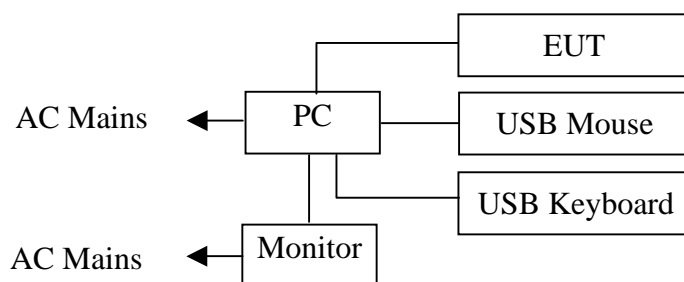
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Spectrum	Agilent	E7403A	MY42000106	May 11, 07	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 11, 07	1 Year
3.	Amplifier	HP	8447D	2944A07794	Sep.11, 07	1/2 Year
4.	Bilog Antenna	Schaffner	CBL6111C	2598	Feb.22, 07	1 Year
5.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	July. 16, 07	1/2 Year
6.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	July. 16, 07	1/2 Year
7.	RF Cable	FUJIKURAw	RG-55/U	3# Chamber No.3	July. 16, 07	1/2 Year
8.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	July. 16, 07	1/2 Year
9.	Coaxial Switch	Anritsu	MP59B	M73989	July. 16, 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 11, 07	1 Year
2.	Amp	HP	8449B	3008A00863	May 11, 07	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 11, 07	1 Year
5.	Antenna	ETS	3116	00060088	May. 28, 07	1 Year

3.2. Block Diagram of Test Setup

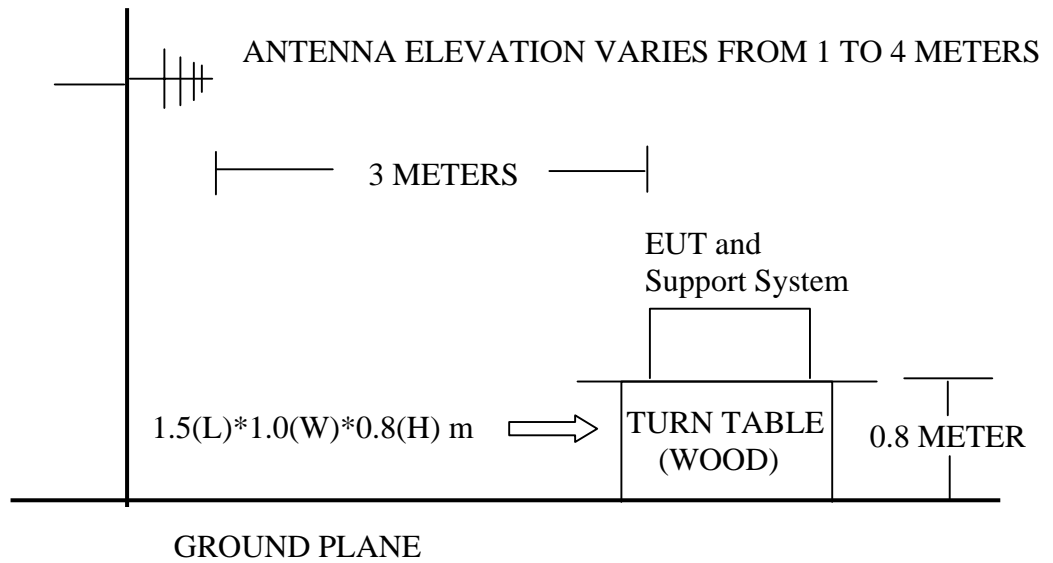
3.2.1. Block Diagram of connection between EUT and simulators



(EUT: Smart Senteo)

3.2.2. Anechoic Chamber Setup Diagram

ANTENNA TOWER



3.3. Radiated Emission Limit Standard: FCC 15.247

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Local Oscillator:	3	114.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 94.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	
Above 1000	3	Other: 74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 - (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.

3.4. Test Procedure

The 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. The EUT is set 3 meters away from the receiving antenna, which is mounted on an 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 is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2003 on radiated emission Test.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the VBW is set at 1MHz 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 1000MHz and above 1GHz. are checked.

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

3.5. 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. All the emissions from 18GHz~24GHz are peak measurement and meets average limit.

EUT: Smart Senteo Model No. : 03-00099-21

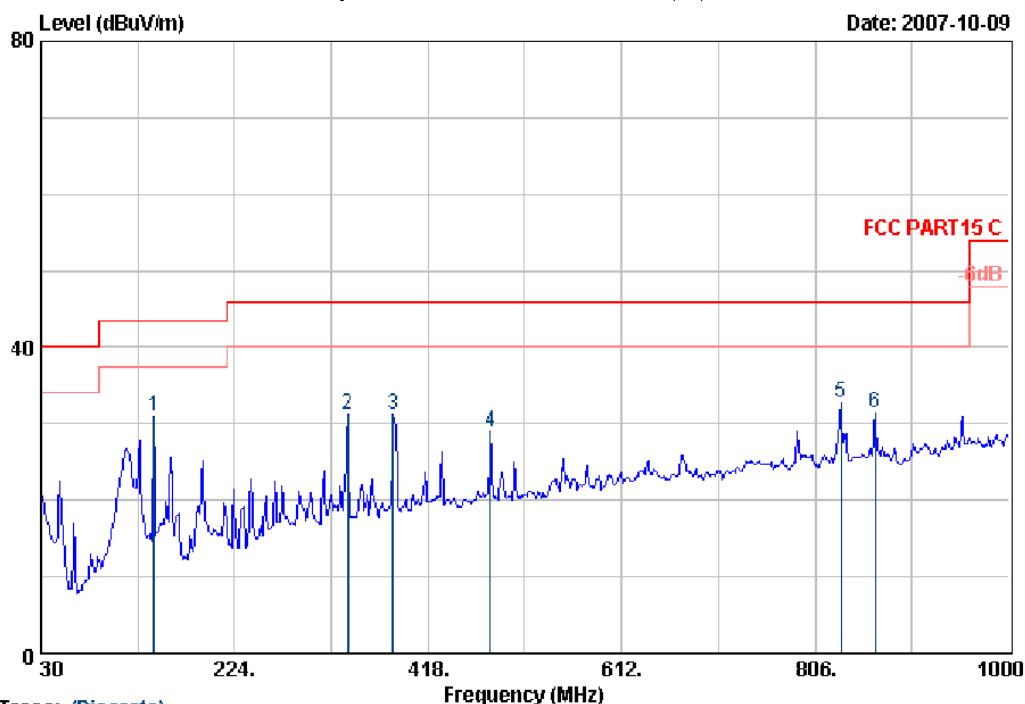
Test Date: Oct.11, 2007 Temperature: 23°C Humidity: 54%

The details of test modes are as follows :

Test Mode	Frequency (MHz)	Test Mode	Reference Test Data No.	
			Horizontal	Vertical
1.	30~1000	Tx Mode	#16	#15
2.	1000~18000	Tx CH High: 2480MHz	#123, #124	#125, #126
3.		Tx CH Middle: 2440MHz	#119, #120	#121, #122
4.		Tx CH Low: 2405MHz	#129, #130	#127, #128
5.	18000~24000	Tx CH High: 2480MHz	#135	#136
6.		Tx CH Middle: 2440MHz	#133	#134
7.		Tx CH Low: 2410MHz	#132	#131

Data: 16 File: D:\2007 Report Data\Smart\ACS7Q936.EMI (20)

Date: 2007-10-09



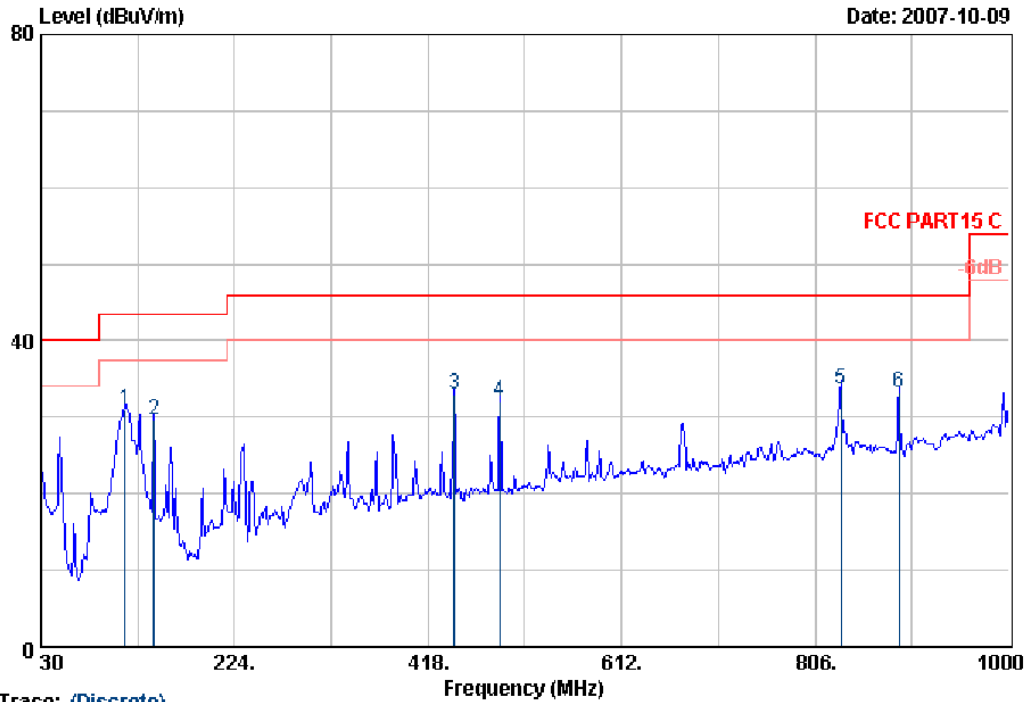
Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 16
 Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL
 Limit : FCC PART15 C
 Env. / Ins. : 24*C/56% ESVS20 Engineer : Jamy
 EUT : Smart Senteo M/N:03-00099-21
 Power Rating : DC 5V from Computer
 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	17.90	30.99	43.50	12.51	QP
2	337.49	14.70	1.74	14.84	31.28	46.00	14.72	QP
3	383.08	15.96	1.78	13.52	31.26	46.00	14.74	QP
4	480.08	18.10	1.93	8.92	28.95	46.00	17.05	QP
5	832.19	22.44	2.30	7.91	32.65	46.00	13.35	QP
6	866.14	22.82	2.66	5.95	31.43	46.00	14.57	QP

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

Data: 15 File: D:\2007 Report Data\S\smart\ACS7Q936.EMI (20)



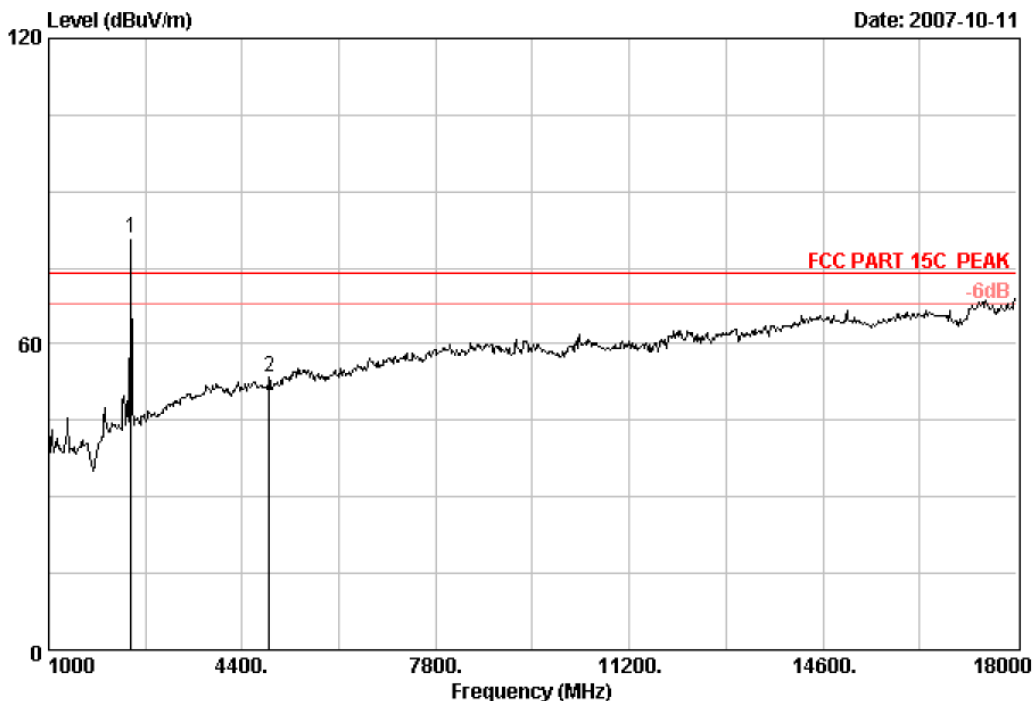
Trace: (Discrete)
 Site no. : 3# Chamber Radiation Data no. : 15
 Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL
 Limit : FCC PART15 C
 Env. / Ins. : 24*C/56% ESVS20 Engineer : Jamy
 EUT : Smart Sentec M/N:03-00099-21
 Power Rating : DC 5V from Computer
 Test mode : Tx Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	114.39	11.63	1.06	18.20	30.89	43.50	12.61	QP
2	143.49	11.93	1.16	16.47	29.56	43.50	13.94	QP
3	444.19	17.10	2.06	13.81	32.97	46.00	13.03	QP
4	489.78	18.10	1.90	12.19	32.19	46.00	13.81	QP
5	832.19	22.44	2.30	8.95	33.69	46.00	12.31	QP
6	890.39	22.90	2.50	7.73	33.13	46.00	12.87	QP

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

Data: 119 File: D:\2007 Report\haier\ACS7Q936.EMI (137)

Date: 2007-10-11



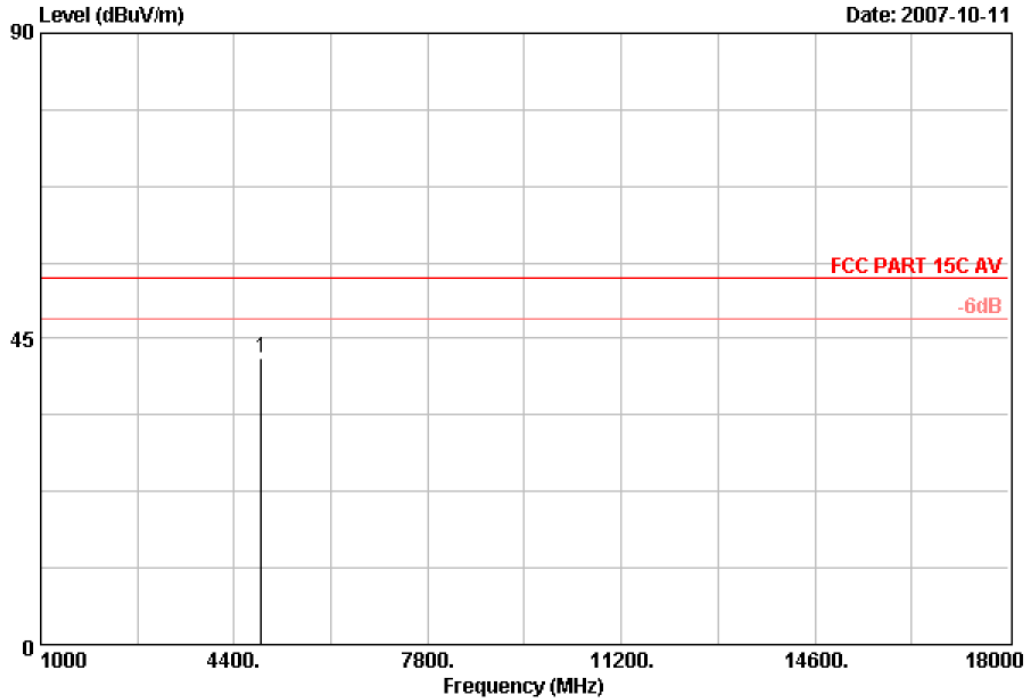
Site no. : Data no. : 119
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Smart Senteo M/N:03-00099-21
 Power Rating: DC 5V From computer
 Test Mode : Tx CH Mid 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	2440.00	29.11	6.80	35.17	80.14	80.88	74.00	-6.88	Peak
2	4880.00	34.16	10.56	34.48	43.31	53.55	74.00	20.45	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.

Data: 120 File: D:\2007 Report\haier\ACS7Q936.EMI (137)

Date: 2007-10-11

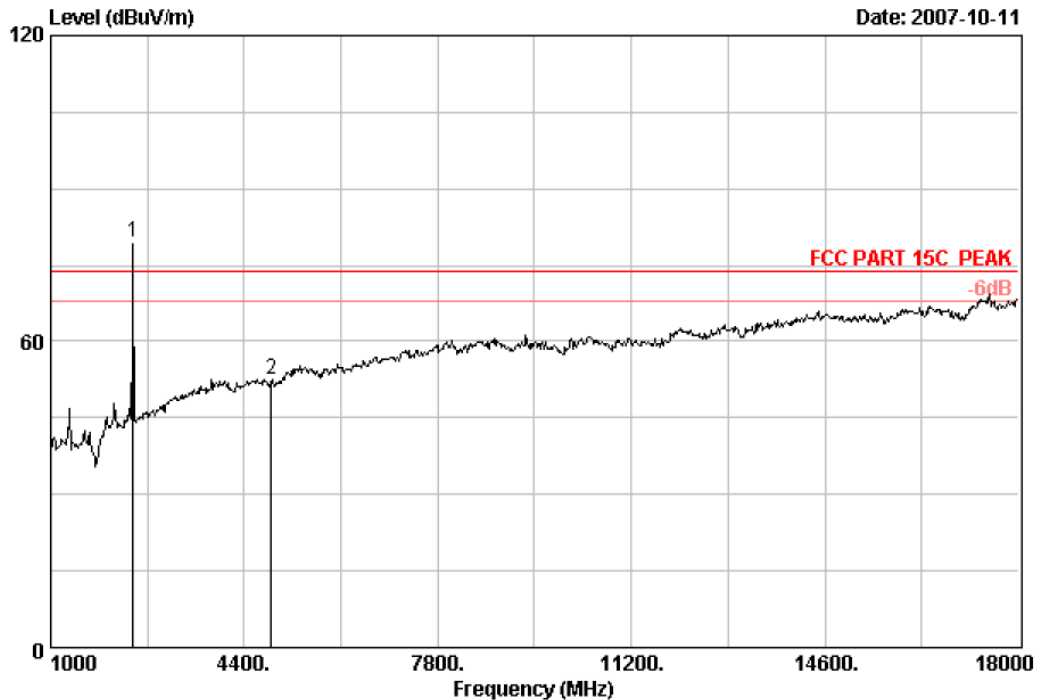


Site no. : Data no. : 120
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Smart Senteo M/N:03-00099-21
 Power Rating: DC 5V From computer
 Test Mode : Tx CH Mid 2440MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 4880.00	34.16	10.56	34.48	31.78	42.02	54.00	11.98	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.

Data: 121 File: D:\2007 Report\haier\ACS7Q936.EMI (137)



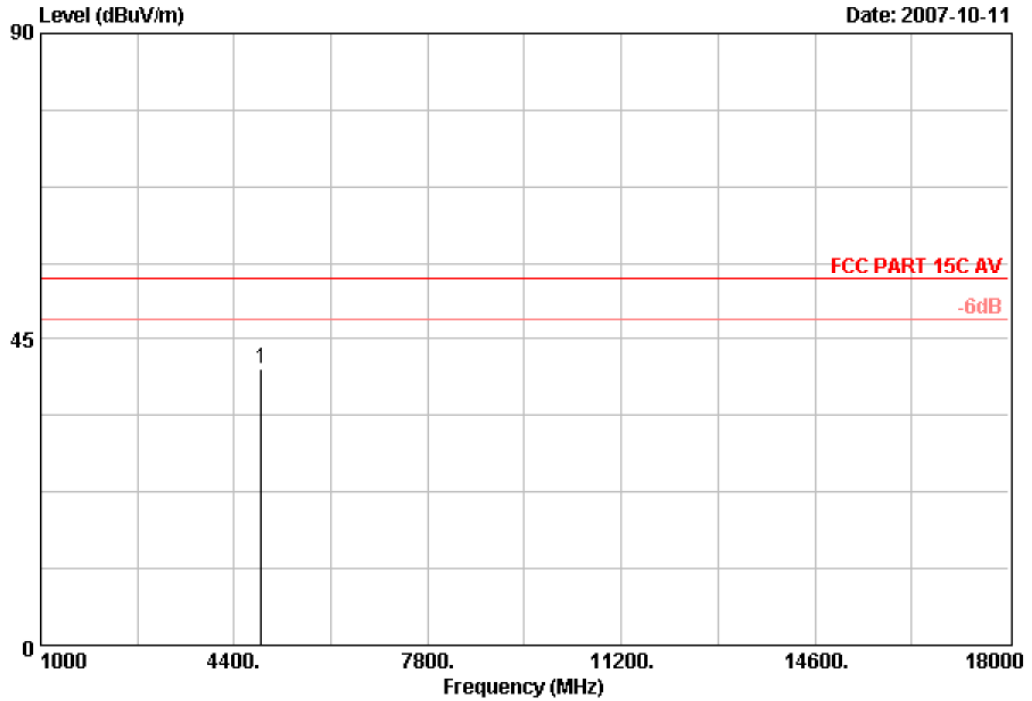
Site no. : Data no. : 121
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Smart Senteo M/N:03-00099-21
 Power Rating: DC 5V From computer
 Test Mode : Tx CH Mid 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	2440.00	29.11	6.80	35.17	78.71	79.45	74.00	-5.45	Peak
2	4880.00	34.16	10.56	34.48	42.33	52.57	74.00	21.43	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.

Data: 122 File: D:\2007 Report\haier\ACS7Q936.EMI (137)

Date: 2007-10-11



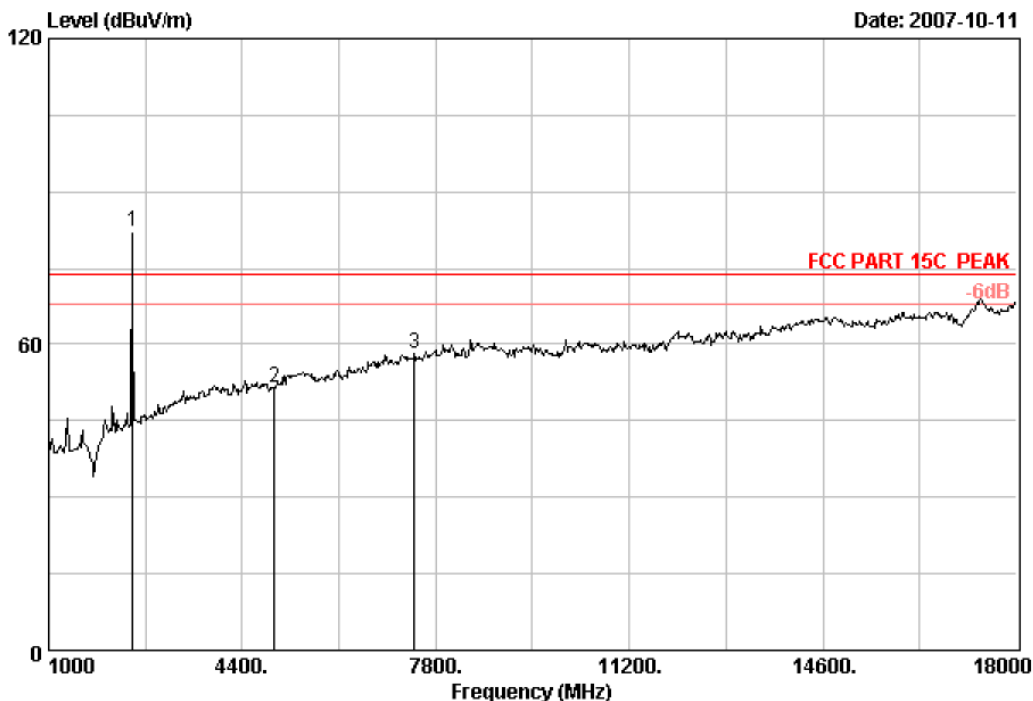
Site no. : Data no. : 122
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Smart Senteo M/N:03-00099-21
 Power Rating: DC 5V From computer
 Test Mode : Tx CH Mid 2440MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 4880.00	34.16	10.56	34.48	30.29	40.53	54.00	13.47	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.

Data: 123 File: D:\2007 Report\haier\ACS7Q936.EMI (137)

Date: 2007-10-11



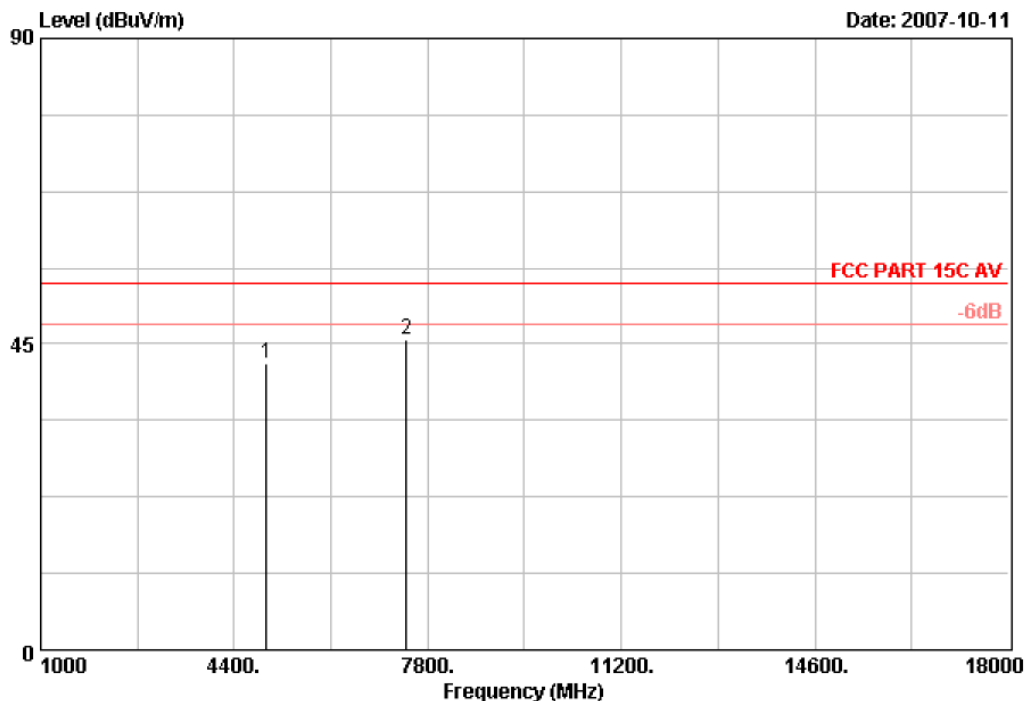
Site no. : Data no. : 123
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Smart Senteo M/N:03-00099-21
 Power Rating: DC 5V From computer
 Test Mode : Tx CH High 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2480.00	29.19	6.87	35.16	81.22	82.12	74.00	-8.12	Peak
2	4960.00	34.38	10.59	34.46	41.01	51.52	74.00	22.48	Peak
3	7426.00	37.69	12.32	34.49	42.76	58.28	74.00	15.72	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.

Data: 124 File: D:\2007 Report\haier\ACS7Q936.EMI (137)

Date: 2007-10-11



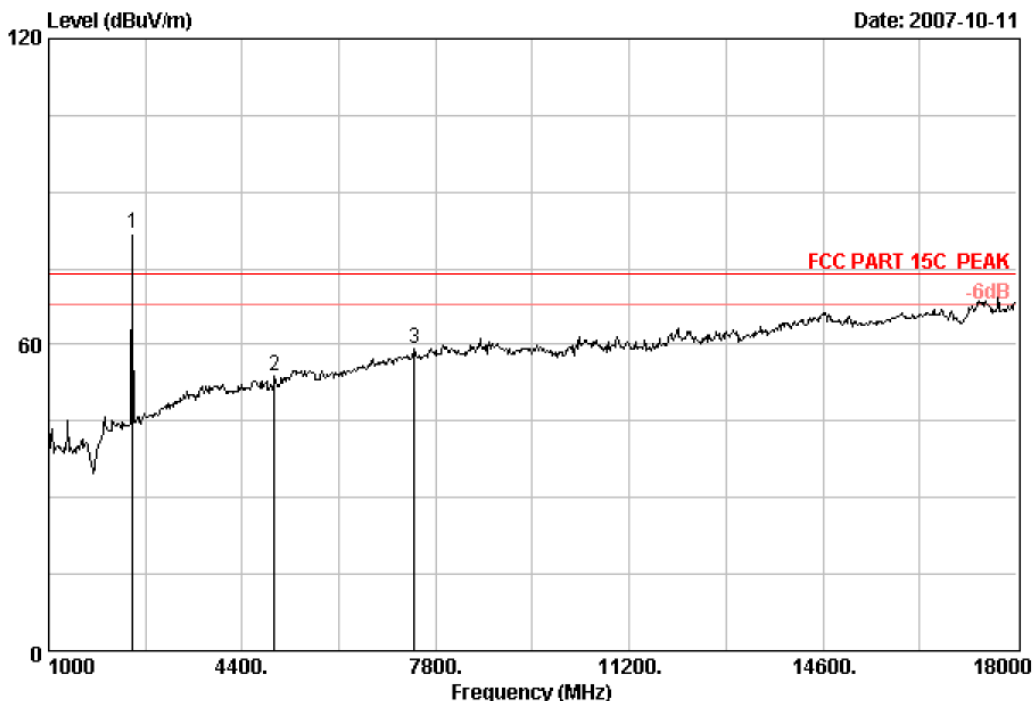
Site no. : Data no. : 124
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Smart Senteo M/N:03-00099-21
 Power Rating: DC 5V From computer
 Test Mode : Tx CH High 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	4960.00	34.38	10.59	34.46	31.58	42.09	54.00	11.91	Average
2	7426.00	37.69	12.32	34.49	30.20	45.72	54.00	8.28	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.

Data: 125 File: D:\2007 Report\haier\ACS7Q936.EMI (137)

Date: 2007-10-11



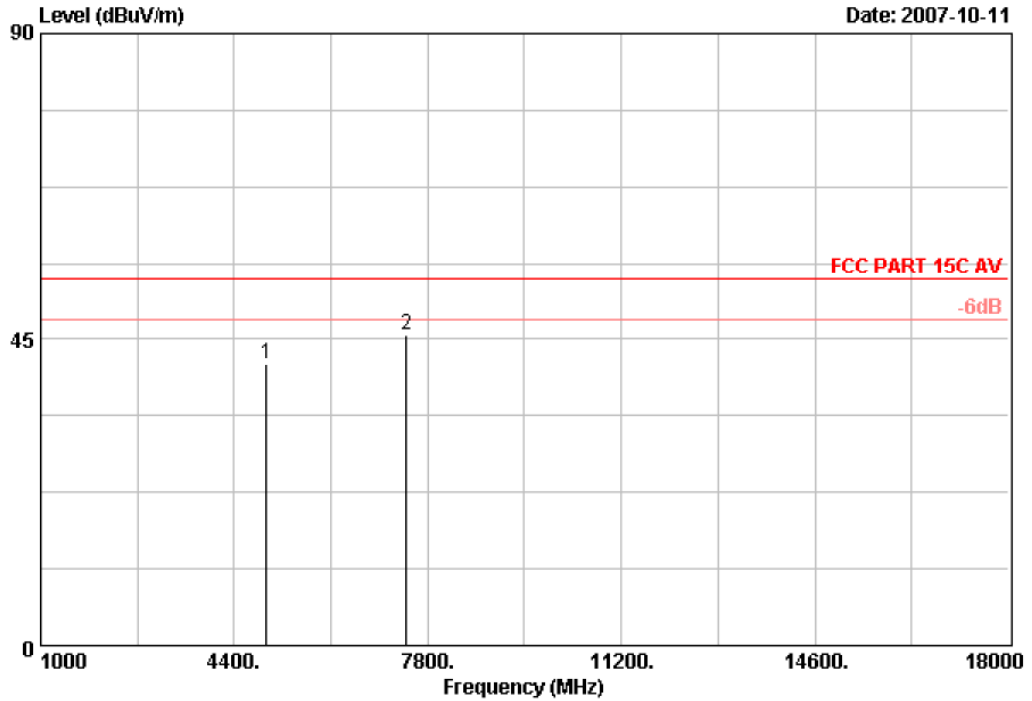
Site no. : Data no. : 125
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Smart Senteo M/N:03-00099-21
 Power Rating: DC 5V From computer
 Test Mode : Tx CH High 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2480.00	29.19	6.87	35.16	81.08	81.98	74.00	-7.98	Peak
2	4960.00	34.38	10.59	34.46	43.19	53.70	74.00	20.30	Peak
3	7426.00	37.69	12.32	34.49	43.53	59.05	74.00	14.95	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.

Data: 126 File: D:\2007 Report\haier\ACS7Q936.EMI (137)

Date: 2007-10-11

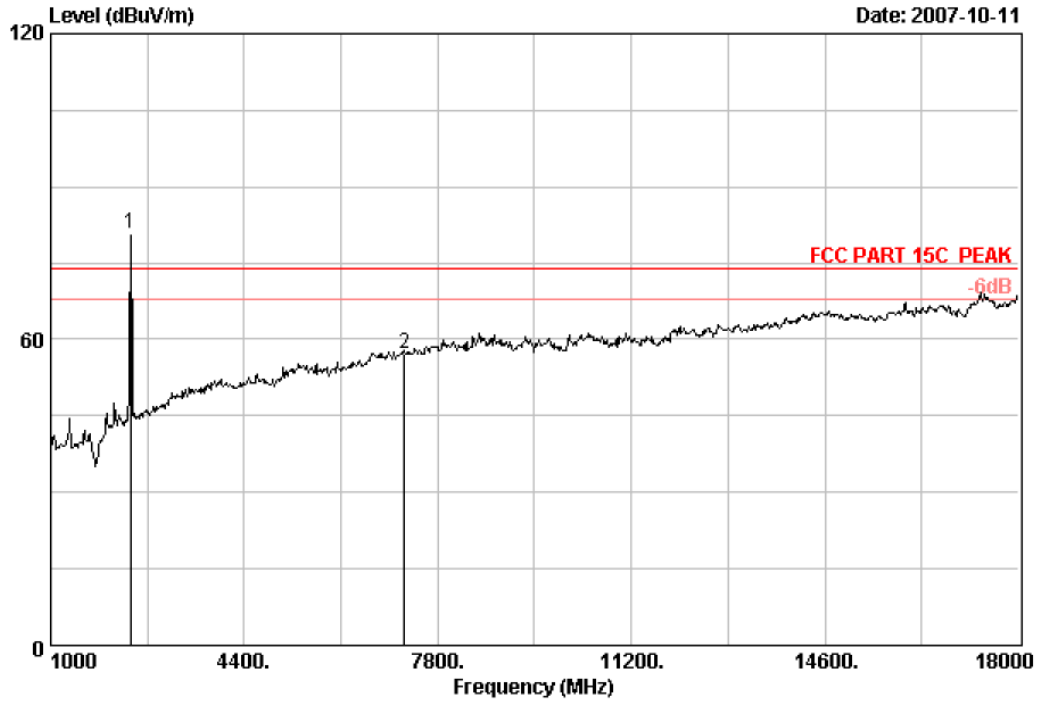


Site no. : Data no. : 126
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Smart Senteo M/N:03-00099-21
 Power Rating: DC 5V From computer
 Test Mode : Tx CH High 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	4960.00	34.38	10.59	34.46	30.86	41.37	54.00	12.63	Average
2	7426.00	37.69	12.32	34.49	30.15	45.67	54.00	8.33	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.

Data: 127 File: D:\2007 Report\haier\ACS7Q936.EMI (137)



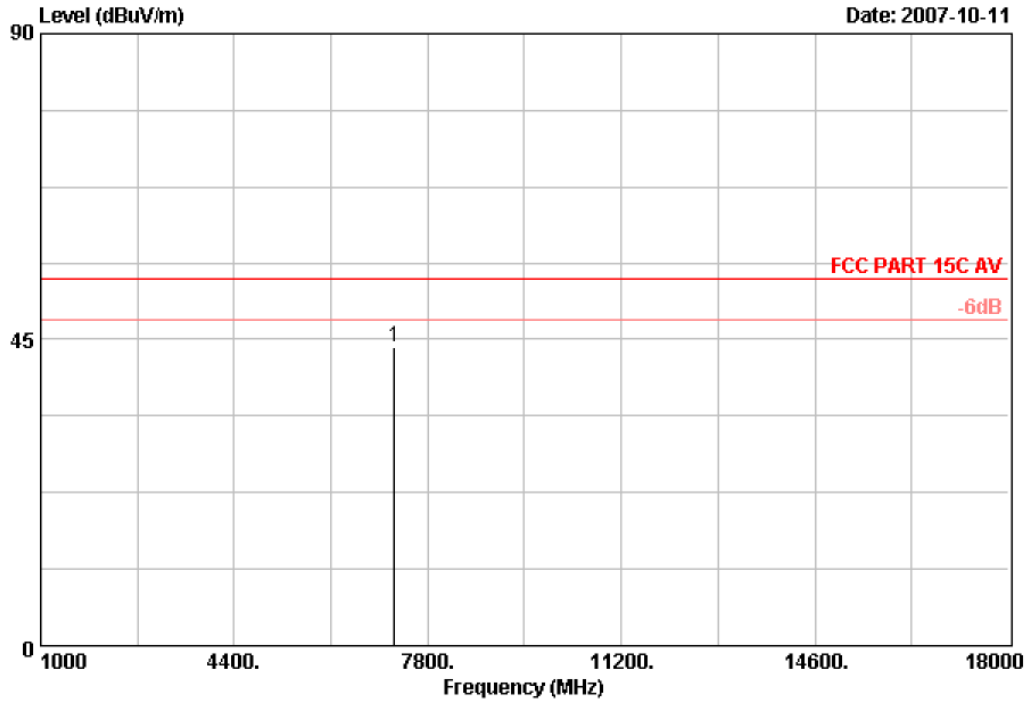
Site no. : Data no. : 127
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Smart Senteo M/N:03-00099-21
 Power Rating: DC 5V From computer
 Test Mode : Tx CH Low 2405MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	2405.00	29.03	6.73	35.18	80.30	80.88	74.00	-6.88	Peak
2	7215.00	37.36	12.16	34.44	42.15	57.23	74.00	16.77	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.

Data: 128 File: D:\2007 Report\haier\ACS7Q936.EMI (137)

Date: 2007-10-11

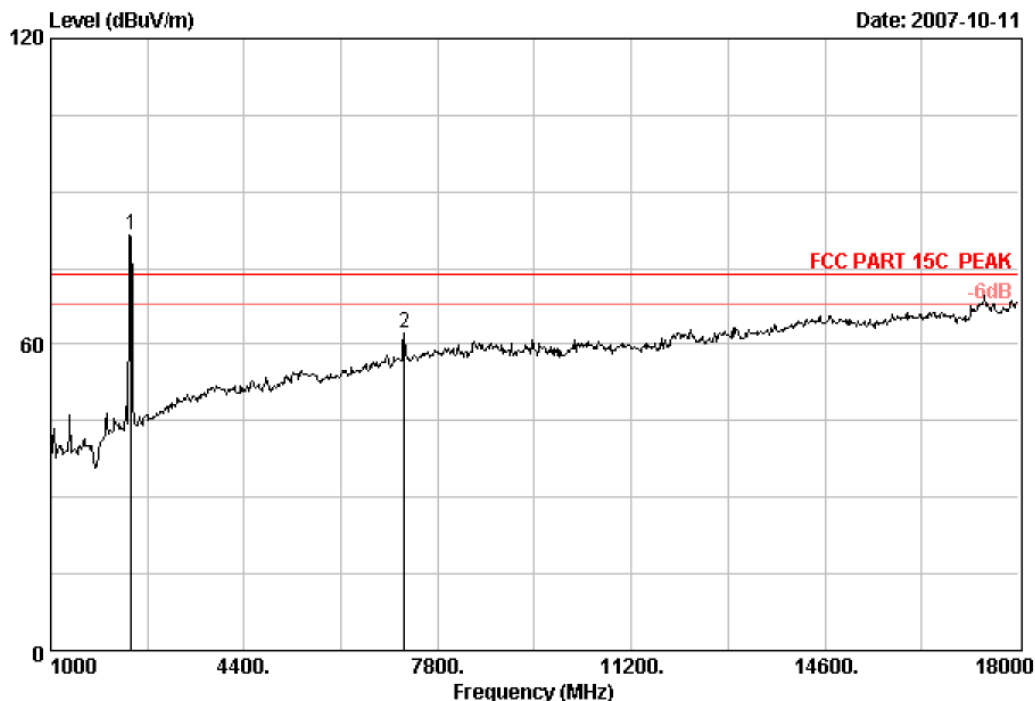


Site no. : Data no. : 128
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Smart Senteo M/N:03-00099-21
 Power Rating: DC 5V From computer
 Test Mode : Tx CH Low 2405MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 7215.00	37.36	12.16	34.44	28.85	43.93	54.00	10.07	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.

Data: 129 File: D:\2007 Report\haier\ACS7Q936.EMI (137)



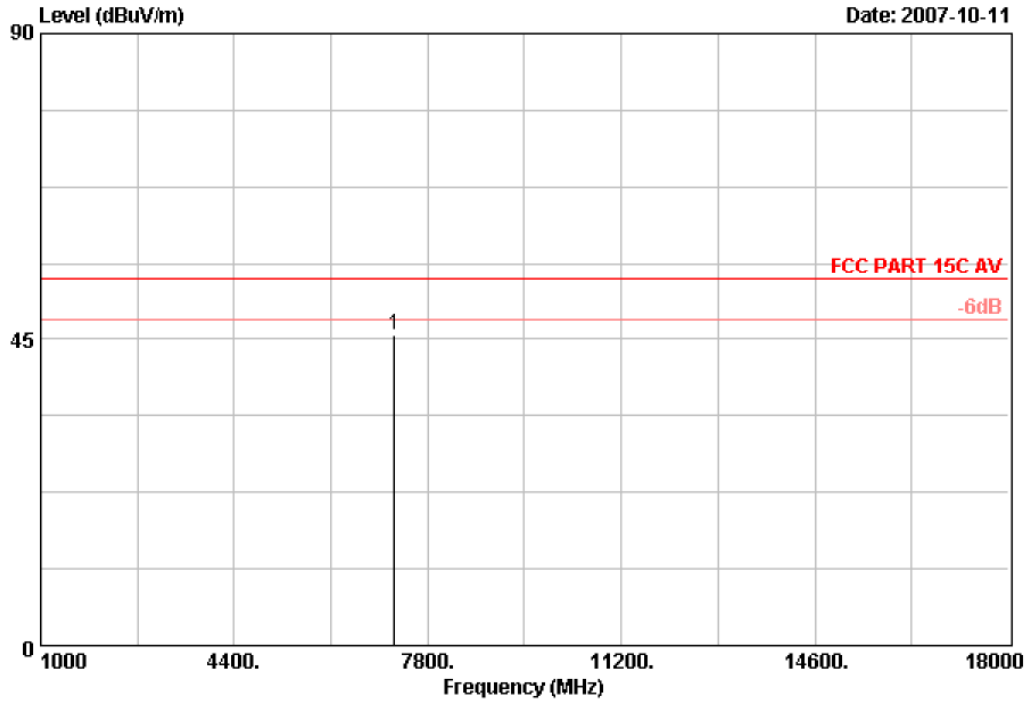
Site no. : Data no. : 129
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : Smart Senteo M/N:03-00099-21
 Power Rating: DC 5V From computer
 Test Mode : Tx CH Low 2405MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Margin (dB)	Remark	
					Reading (dBuV)	Level (dBuV/m)			
1	2411.00	29.03	6.73	35.18	80.96	81.54	74.00	-7.54	Peak
2	7215.00	37.36	12.16	34.44	47.22	62.30	74.00	11.70	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.

Data: 130 File: D:\2007 Report\haier\ACS7Q936.EMI (137)

Date: 2007-10-11



Site no. : Data no. : 130
 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 computer
 Test Mode : Tx CH Low 2405MHz

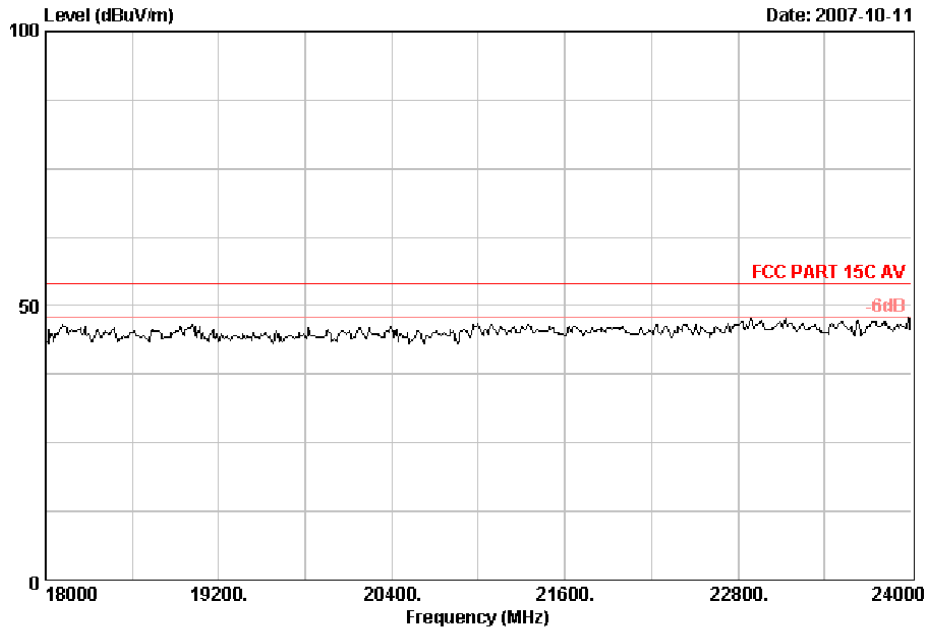
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	7215.00	37.36	12.16	34.44	30.65	45.73	54.00	8.27	Average

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.



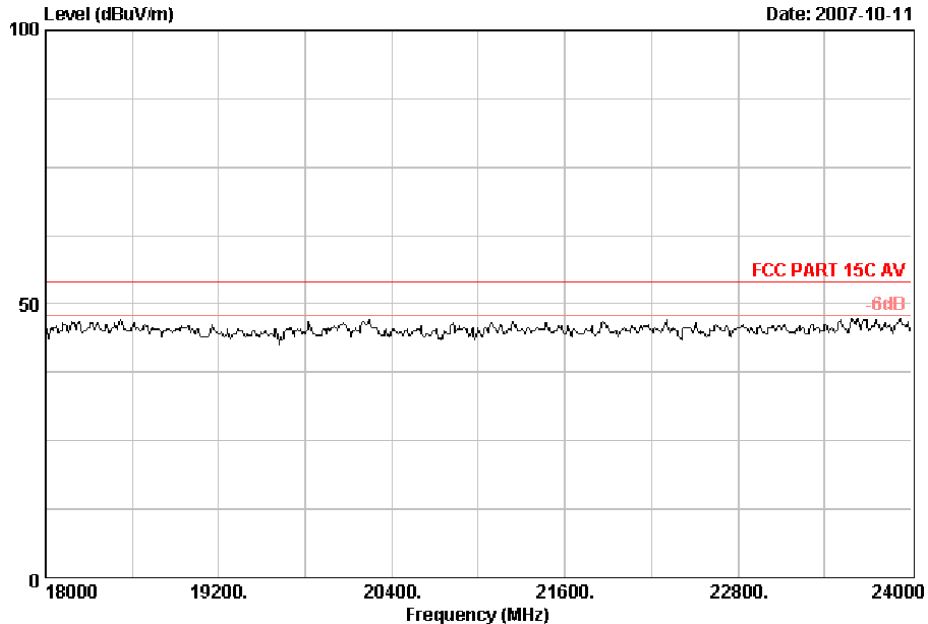
No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 135 File: D:\2007 Report\haier\ACS7Q936.EMI (136)



Site no. : Audix No.1 Chamber Data no. : 135
Dis. / Ant. : 3m 3116FACTOR 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 computer
Test Mode : Tx CH High 2480MHz

Data: 136 File: D:\2007 Report\haier\ACS7Q936.EMI (136)

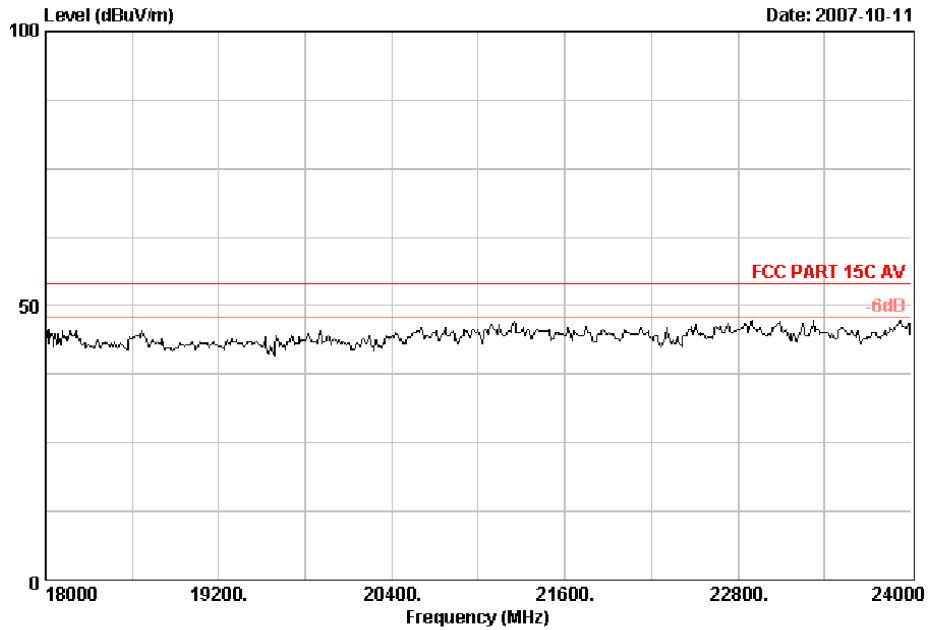


Site no. : Audix No.1 Chamber Data no. : 136
Dis. / Ant. : 3m 3116FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From computer
Test Mode : Tx CH High 2480MHz



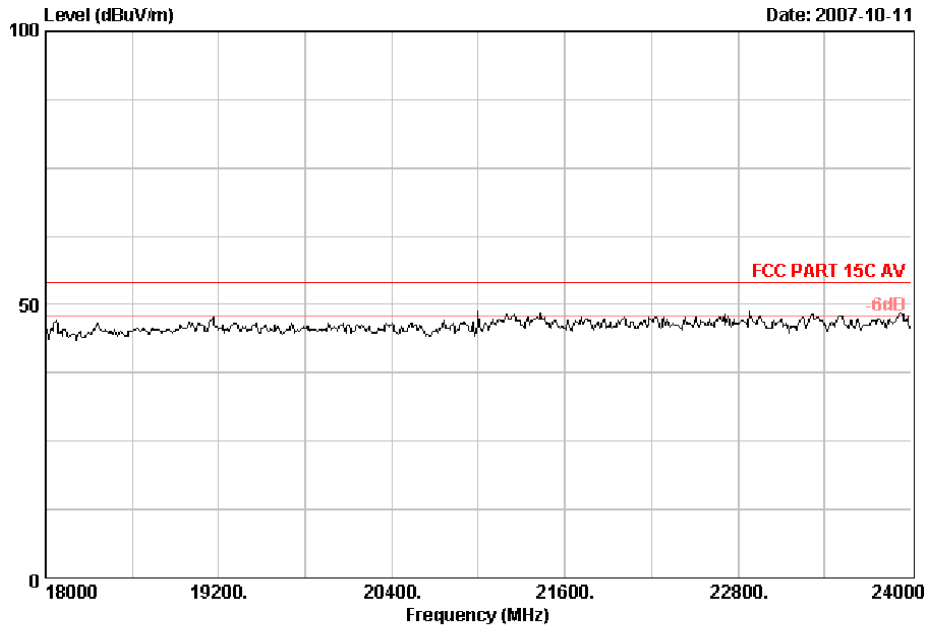
No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 133 File: D:\2007 Report\haier\ACS7Q936.EMI (136)



Site no. : Audix No.1 Chamber Data no. : 133
Dis. / Ant. : 3m 3116FACTOR 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 computer
Test Mode : Tx CH Mid 2440MHz

Data: 134 File: D:\2007 Report\haier\ACS7Q936.EMI (136)

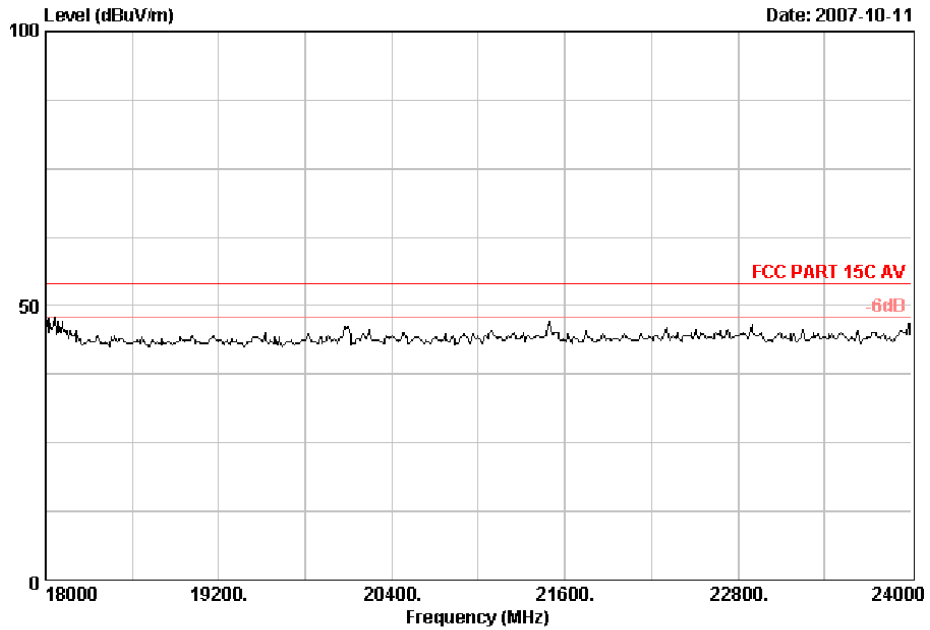


Site no. : Audix No.1 Chamber Data no. : 134
Dis. / Ant. : 3m 3116FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From computer
Test Mode : Tx CH Mid 2440MHz



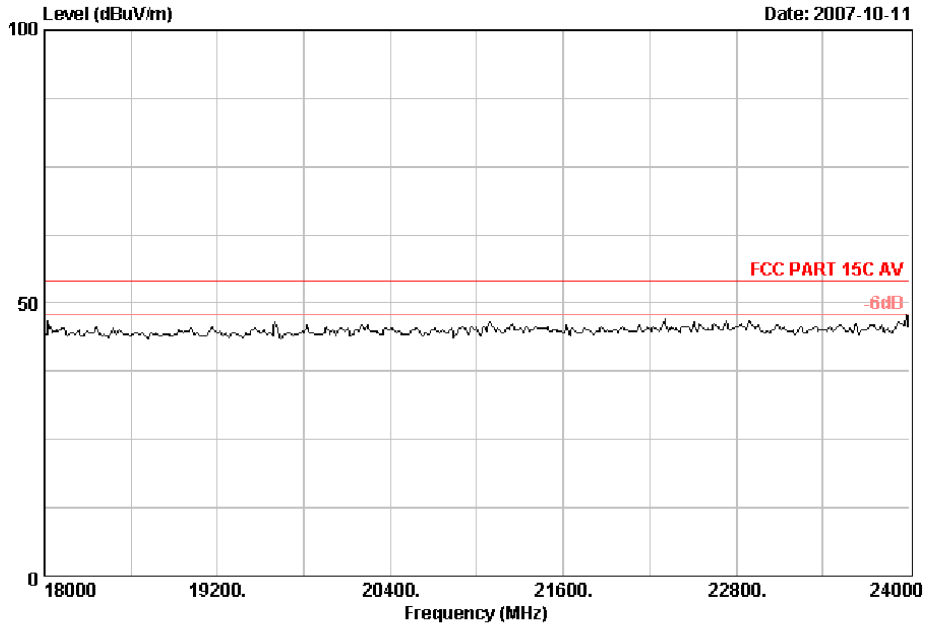
No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 132 File: D:\2007 Report\haier\ACS7Q936.EMI (136)



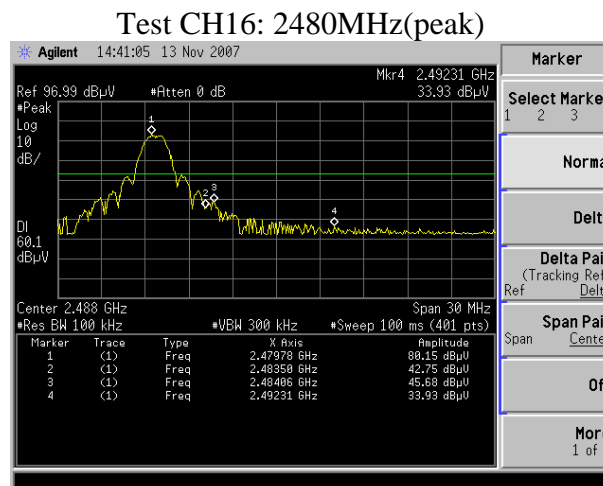
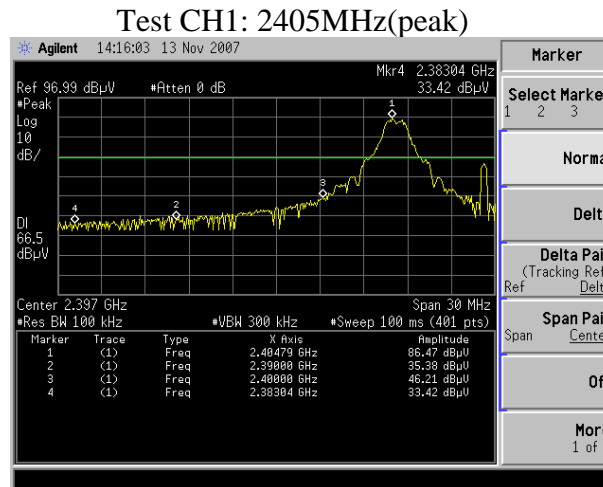
Site no. : Audix No.1 Chamber Data no. : 132
Dis. / Ant. : 3m 3116FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Jamy
EUT : Smart Senteo M/N:03-00099-21
Power Rating : DC 5V From computer
Test Mode : Tx CH Low 2405MHz

Data: 131 File: D:\2007 Report\haier\ACS7Q936.EMI (136)



Site no. : Audix No.1 Chamber Data no. : 131
Dis. / Ant. : 3m 3116FACTOR 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 computer
Test Mode : Tx CH Low 2405MHz

4. BAND EDGE COMPLIANCE TEST

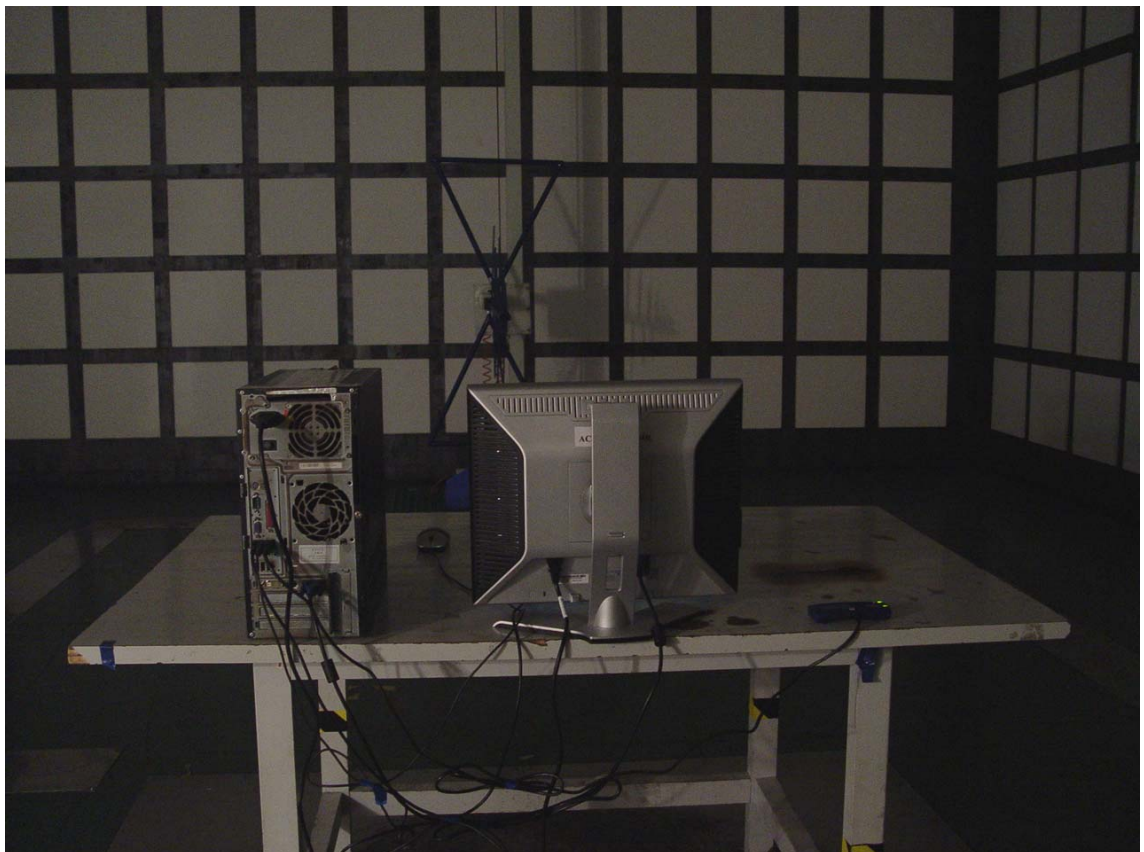
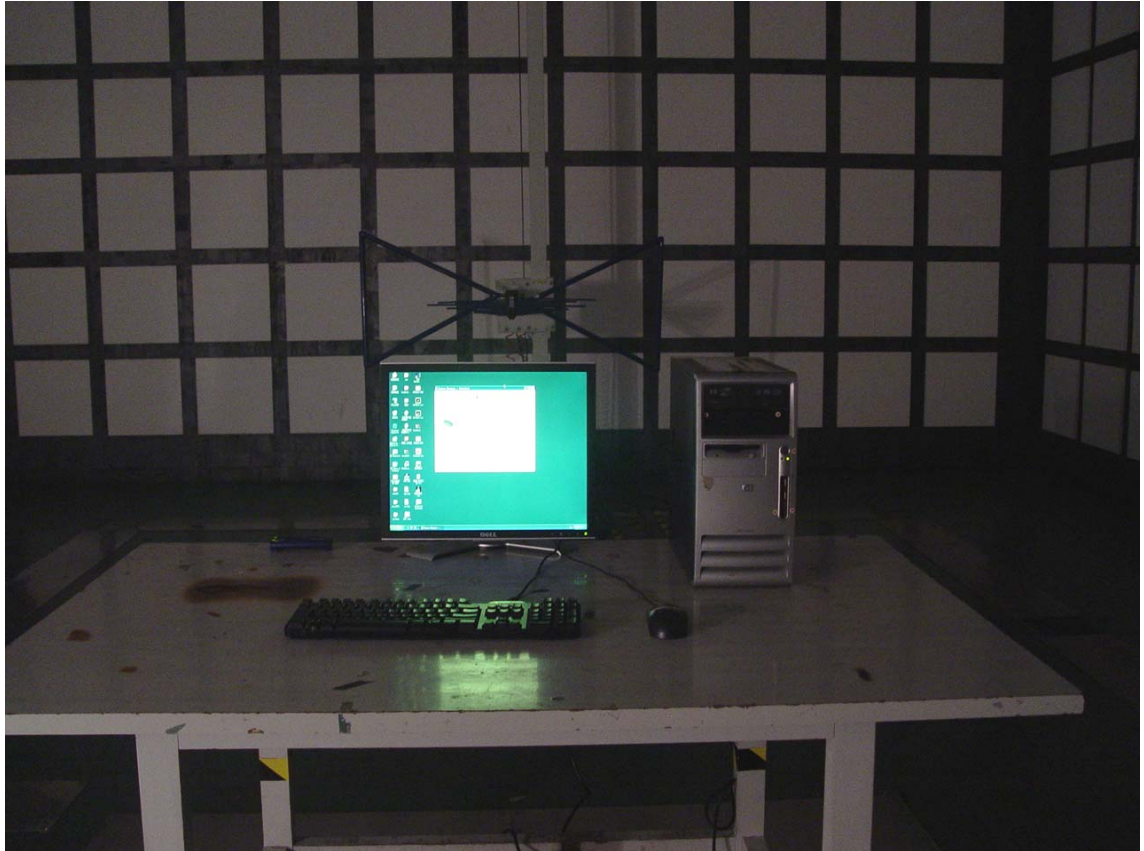


Note: The peak measurement meets average limit, and so average measurement meets average limit tacitly.

5. PHOTOGRAPH

5.1. Photos of Radiated Emission Test (In Anechoic Chamber)

30~1000MHz



Above 1000MHz

