

**F C C -****TEST REPORT****REPORT NO.: 49848**

## FCC – Test Report

Date: 2008-03-05

No. 49848

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### FCC listed testlab acc. to Section 2.948 of the FCC - Rules

in compliance with the requirements of  
ANSI C63.4 - 2003

**Product** : USB FM Mini Transmitter

**Product Class** : - Low Power Communication Device Transmitter  
- Class B Computing Device Peripheral

**Brand Name** : -

**Model** : HC-828

**Applicant** : UNION GAIN INDUSTRIAL LIMITED

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# LABORATORY - REPORT

**APPLICANT:** UNION GAIN INDUSTRIAL LIMITED  
**ADDRESS:** Flat H, 14/F., Tsun Win Factory Building  
60 Tsun Yip Street  
Kwun Tong, Kowloon  
Hong Kong

**DATE OF SAMPLE RECEIVED:** 2008-01-30

**DATE OF TESTING:** 2008-02-28 to 2008-03-05

**DESCRIPTION OF SAMPLE:**

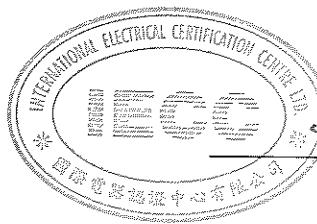
Product: USB FM Mini Transmitter  
(Frequency setting : 88.5 MHz, 88.7 MHz, 88.9 MHz, 107.5 MHz,  
107.7 MHz, 107.9 MHz)  
Product class: - Low Power Communication Device Transmitter  
- Class B Computing Device Peripheral  
Model number: HC-828  
Rating: DC via USB socket of host computer

**CONDITION OF TEST SAMPLE:** The received sample was under good condition.

**INVESTIGATIONS REQUESTED:**  
- For FM Transmitter :  
Measurements to the relevant clauses of F.C.C. Rules and Regulations  
Part 15 Subpart C – Intentional Radiators  
- For Class B Computing Device Peripheral :  
Measurements to the relevant clauses of F.C.C. Rules and Regulations  
Part 15 Subpart B – ‘Unintentional Radiators’

**RESULTS:** See the attached sheets.

**CONCLUSIONS:** From the measurement data obtained, the tested sample was considered to have COMPLIED with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

  
Stephen C. N. Wong

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### Test Location

International Electrical Certification Centre Ltd.  
Unit 602-605, 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong  
Tel : +852 23052570  
Fax : +852 27564480  
Email : info@iecc.com.hk

### Summary of Test Results

#### Radiated Emission:

**Test result:** O.K.  
**Test data:** See attached data sheet

#### Conducted Emission:

**Test result:** O.K.  
**Test data:** See attached data sheet

#### Measurement of Emissions within Band Edges

**Test result:** O.K.  
**Test data:** See attached data sheet

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## TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Last Calibration Date	Next Calibration Date
Test Receiver	Rohde & Schwarz	ESCS 30	100388	12/4/2007	11/4/2008
Test Receiver	Rohde & Schwarz	ESHS 30	839667/002	2/11/2007	1/11/2008
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127	8127312	2/11/2007	1/11/2008
Antenna	Schaffner	CBL6111C	2791	25/05/2005	24/05/2008
Antenna Mast System	Schwarzbeck	AM9104	--	--	--
Turntable with Controller	Drehtisch	DT312	--	--	--

## TEST SUPPORT UNITS

The sample was tested with PC system :

Equipment	Manufacturer	Model	Serial No.
NoteBook	DELL	PP10S	H8893 A02 FCC ID : E2K24BNHM
Ethernet router	NetScreen Technologies, Inc.	NS-5GT-103	0064022004002202
Speakers	--	--	--

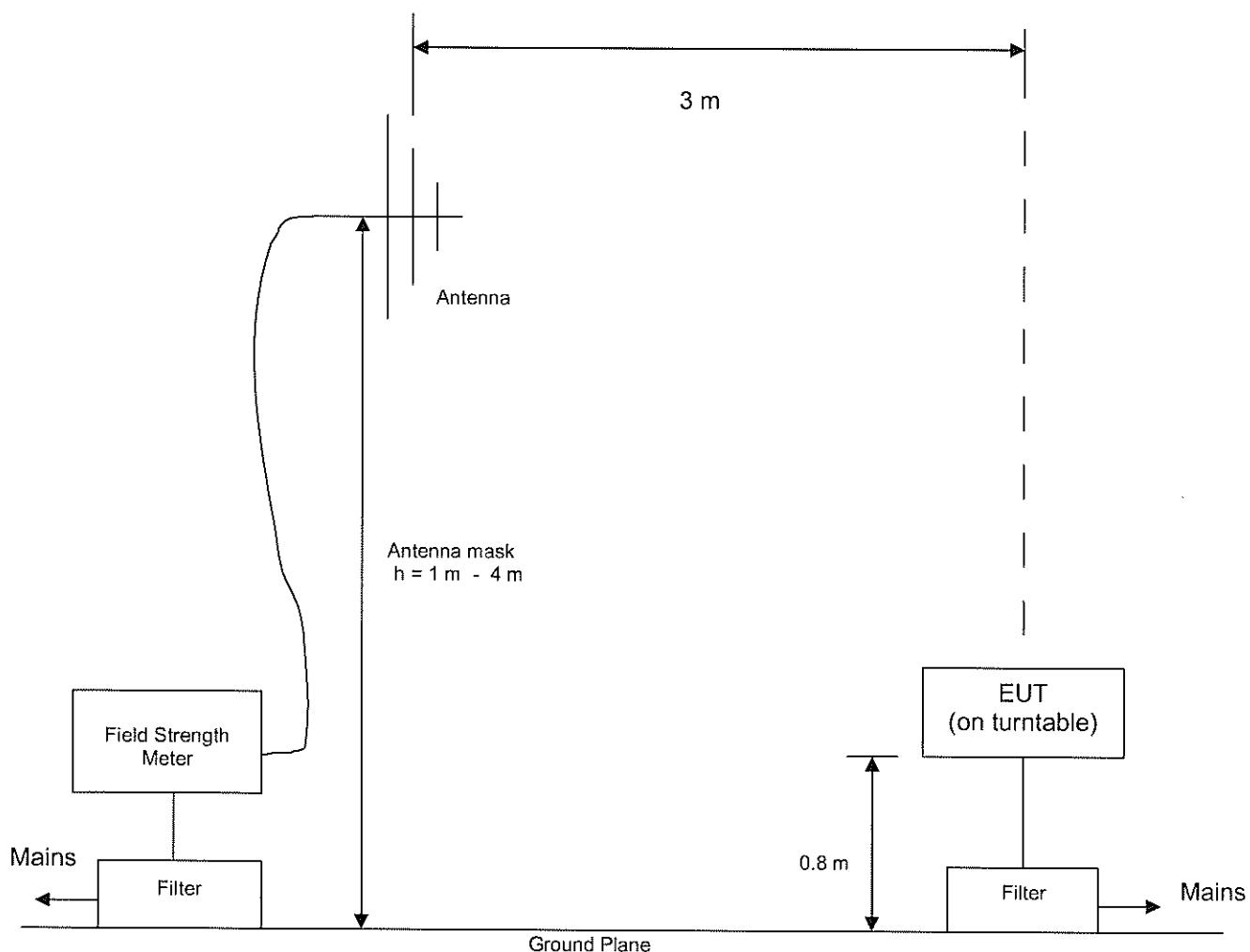
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## Radiated Emission Test Setup (3 m diatance) (&gt; 30MHz)



Address 地址

Units 602-605, 6/F, 31 Lok Yip Rd., On Lok Tsuen, Fanling, N.T., Hong Kong  
 香港新界粉嶺安樂村樂薈路31號6樓602-605室  
 IEC (Guangzhou) Services Co., Ltd. 廣州隨立進技術服務有限公司  
 Flat A, 2/F, Block 3, 56 Shuiyin Road, Guangzhou, P.R. of China  
 廣州市水蔭路56號3棟2A室

China 中國:

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 Fax 傳真: (852) 2756 4480

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 Home Page 網頁: <http://www.iecc.com.hk>

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E-mail 電子郵件: info@iecc.net.cn  
 Home Page 網頁: <http://www.iecc.net.cn>

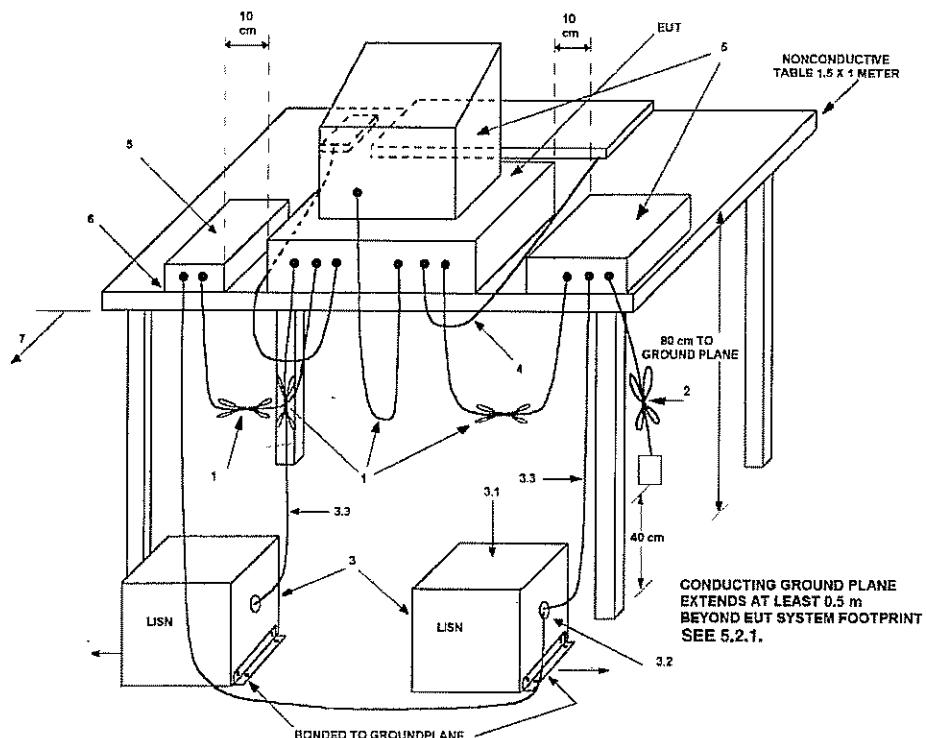
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## Conducted Emission Test Setup



## LEGEND:

- 1) Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long (see 6.1.4 and 11.2.4).
- 2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m (see 6.1.4).
- 3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω. LISN can be placed on top of, or immediately beneath, reference groundplane (see 5.2.3 and 7.2.1).
  - 3.1) All other equipment powered from additional LISN(s).
  - 3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
  - 3.3) LISN at least 80 cm from nearest part of EUT chassis.
- 4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use (See 6.2.1.3 and 11.2.4).
- 5) Non-EUT components of EUT system being tested (see also Figure 13).
- 6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop (see 6.2.1.1 and 6.2.1.2).
- 7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the groundplane (see 5.2.2 for options).

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## Test Procedure

### Radiated Emission :

The EUT was tested according to ANSI 63.4-2003 for the requirements of FCC Part 15 Subpart C Section 15.209 and 15.239 for FM transmission mode, and FCC Part 15 Subject B Section 15.109 for Class B Computing Device Peripheral operation.

During the test, the sample was placed on a turn table and operated with supply at rated DC voltage via the USB socket of the host computer. The computer system included a notebook computer, a pair of external speakers and an ethernet router. The table is 0.8 meter above the reference ground plane on the Open Aera Test Site and can rotate 360 degrees to determine the position of the maximum emission level. A broad-band antenna for the frequency range 30 - 1000 MHz, connected with 10 meters coaxial cable to the test receiver was used for measurement. The antenna is capable of measuring both horizontal and vertical polarizations. The antenna was raised from 1 to 4 meters to find out the maximum emission level from the EUT.

During the test, the reference computer was playing a MP3 song at maximum volume. The signal was transmitted via the test sample at the selected test frequency.

An initial pre-scan was performed to find out the maximum emission level of the sample placed at 3 orthogonal planes. Final measurement (30 MHz –1000 MHz) was then performed to record the data for the emissions under worst-case condition for combination of the antenna orientation / height and turn table position.

Note : The Open Aera Test Site located at IECC was placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules (FCC Registration No. : 97774).

### Conducted Emission :

The EUT was tested according to ANSI 63.4-2003 for the requirements of FCC Part 15 Subpart C Section 15.207 for FM transmission mode, and FCC Part 15 Subject B Section 15.107 for Class B Computing Device Peripheral operation.

During the test, the sample was placed on a wooden table and operated with supply at rated DC voltage via the USB socket of the host computer. The computer system included a notebook computer, a pair of external speakers and an ethernet router. The table is 0.8 meter above the floor. The reference computer was connected to the LISN which was connected to the test receiver for conducted emission measurement (150kHz – 30MHz).

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**Test Results****Radiated Emission :****(1) For FM Transmission mode :**

Test Requirement:	FCC Part 15 Subpart C Section 15.209 and 15.239
Test Method:	ANSI C63.4 : 2003
Deviations from Standard Test Method:	Nil
Frequency Range:	30MHz – 1000MHz
Measurement Distance:	3 m
Detector:	Peak / Average (for fundamental frequency) Quasi-Peak (for frequencies outside the operation band)

Refer to page 12- 14 for measurement data.

**(2) For Class B Computing Device Peripheral operation :**

Test Requirement:	FCC Part 15 Subpart B Section 15.109
Test Method:	ANSI C63.4 : 2003
Deviations from Standard Test Method:	Nil
Frequency Range:	30MHz – 1000MHz
Measurement Distance:	3 m
Class:	Class B
Detector:	Quasi-Peak

Refer to page 15 for measurement data



Approved Laboratory



Network Partner



Qualified Independent Laboratory

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## Test Result

### Conducted Emission :

Test Requirement: FCC Part 15 Subpart C Section 15.207 for FM transmission mode, and FCC Part 15 Subject B Section 15.107 for Class B Computing Device Peripheral operation.

Test Method: ANSI C63.4 : 2003

Deviations from Standard Test Method: Nil

Frequency Range: 150kHz – 30MHz

Detector: Quasi-Peak / Average

Refer to page 16 - 19 for measurement data.

### Band Edges Plot :

Refer to page 20 - 22.

## Interference Radiation

Date : 2008-03-05

Measurement of Radiated Emissions

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Acc: FCC Part 15 Subpart C (15.239 &amp; 15.209)

IECC Ref:	49848	Test Equipment
Model:	HC-828	Receiver: Rohde & Schwarz ESCS 30
Applicant:	UNION GAIN INDUSTRIAL LIMITED	Antenna: Schaffner CBL6111C
Ser.Nr.:	--	
Set under test:	USB FM Mini Transmitter	
Connected sets:	-	
Operating mode:	Transmitting a MP3 audio song played by the host computer (maximum volume)	

Transmission frequency : 88.5 MHz

Frequency (MHz)	Horz. Reading dB(µV)	Vert. Reading dB(µV)	Corr. Factor (dB)	Horz. Test Result dB(µV/m)	Vert. Test Result dB(µV/m)	Limit dB(µV/m)
88.5	26	24	8.4	34.4	32.4	68.0
88.5	24	22	8.4	32.4	30.4	48.0
30	< 16	< 16	17.6	< 33.6	< 33.6	40.0
100	< 16	< 16	10.1	< 26.1	< 26.1	43.5
177	< 16	< 16	9.0	< 25.0	< 25.0	43.5
265.5	< 16	< 16	13.8	< 29.8	< 29.8	46.0
354	< 16	< 16	15.5	< 31.5	< 31.5	46.0
442.5	< 16	< 16	18.0	< 34.0	< 34.0	46.0
531	< 16	< 16	19.7	< 35.7	< 35.7	46.0
619.5	< 16	< 16	21.6	< 37.6	< 37.6	46.0
708	< 16	< 16	22.8	< 38.8	< 38.8	46.0
796.5	< 16	< 16	24.0	< 40.0	< 40.0	46.0
885	< 16	< 16	25.2	< 41.2	< 41.2	46.0
973.5	< 16	< 16	27.1	< 43.1	< 43.1	54.0
1000	< 16	< 16	27.3	< 43.3	< 43.3	54.0

Note : 1. Unless otherwise indicated, the recorded readings are in quasi-peak values.  
 2. The above results were the worst case results with the sample inserted directly to the USB socket of the host computer (without extension cable).  
 3. Due to the transmitted signal is not in pulse waveform, the average value of the radiation at the fundamental frequency is recorded by direct measurement. Calculation from time domain plots is not applicable.

Operator : RT

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香港新界粉嶺安樂村樂業路31號6樓602-605室

Address 地址

IECC (Guangzhou) Services Co., Ltd. 廣州時並技術服務有限公司

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廣州市水蔭路56號3樓2A室

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# Interference Radiation

Date : 2008-03-05

## Measurement of Radiated Emissions

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Acc: FCC Part 15 Subpart C (15.239 &amp; 15.209)

IECC Ref:	49848	Test Equipment
Model:	HC-828	Receiver: Rohde & Schwarz ESCS 30
Applicant:	UNION GAIN INDUSTRIAL LIMITED	Antenna: Schaffner CBL6111C
Ser.Nr.:	--	
Set under test:	USB FM Mini Transmitter	
Connected sets:	-	
Operating mode:	Transmitting a MP3 audio song played by the host computer (maximum volume)	

Transmission frequency : 88.9 MHz

Frequency (MHz)	Horz. Reading dB(µV)	Vert. Reading dB(µV)	Corr. Factor (dB)	Horz. Test Result dB(µV/m)	Vert. Test Result dB(µV/m)	Limit dB(µV/m)
88.9	25	35	8.6	33.6	43.6	68.0
88.9	23	32	8.6	31.6	40.6	48.0
30	< 16	< 16	17.6	< 33.6	< 33.6	40.0
100	< 16	< 16	10.1	< 26.1	< 26.1	43.5
177.8	< 16	< 16	8.9	< 24.9	< 24.9	43.5
266.7	< 16	< 16	13.7	< 29.7	< 29.7	46.0
355.6	< 16	< 16	15.6	< 31.6	< 31.6	46.0
444.5	< 16	< 16	18.1	< 34.1	< 34.1	46.0
533.4	< 16	< 16	19.9	< 35.9	< 35.9	46.0
622.3	< 16	< 16	21.8	< 37.8	< 37.8	46.0
711.2	< 16	< 16	22.9	< 38.9	< 38.9	46.0
800.1	< 16	< 16	24.0	< 40.0	< 40.0	46.0
889	< 16	< 16	25.1	< 41.1	< 41.1	46.0
977.9	< 16	< 16	27.0	< 43.0	< 43.0	54.0
1000	< 16	< 16	27.3	< 43.3	< 43.3	54.0

Note : 1. Unless otherwise indicated, the recorded readings are in quasi-peak values.

2. The above results were the worst case results with the sample inserted directly to the USB socket of the host computer (without extension cable).

3. Due to the transmitted signal is not in pulse waveform, the average value of the radiation at the fundamental frequency is recorded by direct measurement. Calculation from time domain plots is not applicable.

Operator : RT

# Interference Radiation

Date : 2008-03-05

## Measurement of Radiated Emissions

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Acc: FCC Part 15 Subpart C (15.239 &amp; 15.209)

IECC Ref:	49848	Test Equipment
Model:	HC-828	Receiver: Rohde & Schwarz ESCS 30
Applicant:	UNION GAIN INDUSTRIAL LIMITED	Antenna: Schaffner CBL6111C
Ser.Nr.:	--	
Set under test:	USB FM Mini Transmitter	
Connected sets:	-	
Operating mode:	Transmitting a MP3 audio song played by the host computer (maximum volume)	

Transmission frequency : 107.9 MHz

Frequency (MHz)	Horz. Reading dB(µV)	Vert. Reading dB(µV)	Corr. Factor (dB)	Horz. Test Result dB(µV/m)	Vert. Test Result dB(µV/m)	Limit dB(µV/m)
107.9	32	35	10.5	42.5	45.5	68.0
107.9	30	33	10.5	40.5	43.5	48.0
30	< 16	< 16	17.6	< 33.6	< 33.6	40.0
100	< 16	< 16	10.1	< 26.1	< 26.1	43.5
215.8	< 16	< 16	8.5	< 24.5	< 24.5	43.5
323.7	< 16	< 16	14.5	< 30.5	< 30.5	46.0
431.6	< 16	< 16	17.7	< 33.7	< 33.7	46.0
539.5	< 16	< 16	20.3	< 36.3	< 36.3	46.0
647.4	< 16	< 16	21.7	< 37.7	< 37.7	46.0
755.3	< 16	< 16	24.1	< 40.1	< 40.1	46.0
863.2	< 16	< 16	25.4	< 41.4	< 41.4	46.0
971.1	< 16	< 16	27.1	< 43.1	< 43.1	54.0
1000	< 16	< 16	27.3	< 43.3	< 43.3	54.0

Note : 1. Unless otherwise indicated, the recorded readings are in quasi-peak values.  
 2. The above results were the worst case results with the sample inserted directly to the USB socket of the host computer (without extension cable).  
 3. Due to the transmitted signal is not in pulse waveform, the average value of the radiation at the fundamental frequency is recorded by direct measurement. Calculation from time domain plots is not applicable.

Operator : RT

Address 地址

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香港新界粉嶺安樂村樂業路31號6樓602-605室China 中國  
Address 地址IECC (Guangzhou) Services Co., Ltd. 廣州時亞廣技術服務有限公司  
Flat A, 2/F., Block 3, 56 Shuiyin Road, Guangzhou, P.R. of China  
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# Interference Radiation

Date : 2008-03-05

Measurement of Radiated Emissions  
Acc: FCC Part 15 Subpart B (15.109)

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IECC Ref:	49848
Model:	HC-828
Applicant:	UNION GAIN INDUSTRIAL LIMITED
Ser.Nr.:	--
Set under test:	USB FM Mini Transmitter
Connected sets:	-
Operating mode:	Transmitting a MP3 audio song played by the host computer (maximum volume)

## Test Equipment

Receiver: Rohde &amp; Schwarz ESCS 30

Antenna: Schaffner CBL6111C

Transmission frequency : 88.5MHz / 88.9MHz / 107.9 MHz

Frequency (MHz)	Horz. Reading dB(μV)	Vert. Reading dB(μV)	Corr. Factor (dB)	Horz. Test Result dB(μV/m)	Vert. Test Result dB(μV/m)	Limit dB(μV/m)
30	< 16	< 16	17.6	< 33.6	< 33.6	40.0
100	< 16	< 16	10.1	< 26.1	< 26.1	43.5
300	< 16	< 16	13.9	< 29.9	< 29.9	43.5
500	< 16	< 16	19.1	< 35.1	< 35.1	46.0
700	< 16	< 16	22.4	< 38.4	< 38.4	46.0
1000	< 16	< 16	27.3	< 43.3	< 43.3	46.0

Note : 1. All recorded readings are in quasi-peak values.

2. The above results were the worst case results with the sample inserted directly to the USB socket of the host computer (without extension cable).

Operator : RT

Address 地址:

Units 602-605, 6/F , 31 Lok Yip Rd , On Lok Tsuen, Fanling, N.T , Hong Kong

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Tel 電話: (86-20) 8768 4838

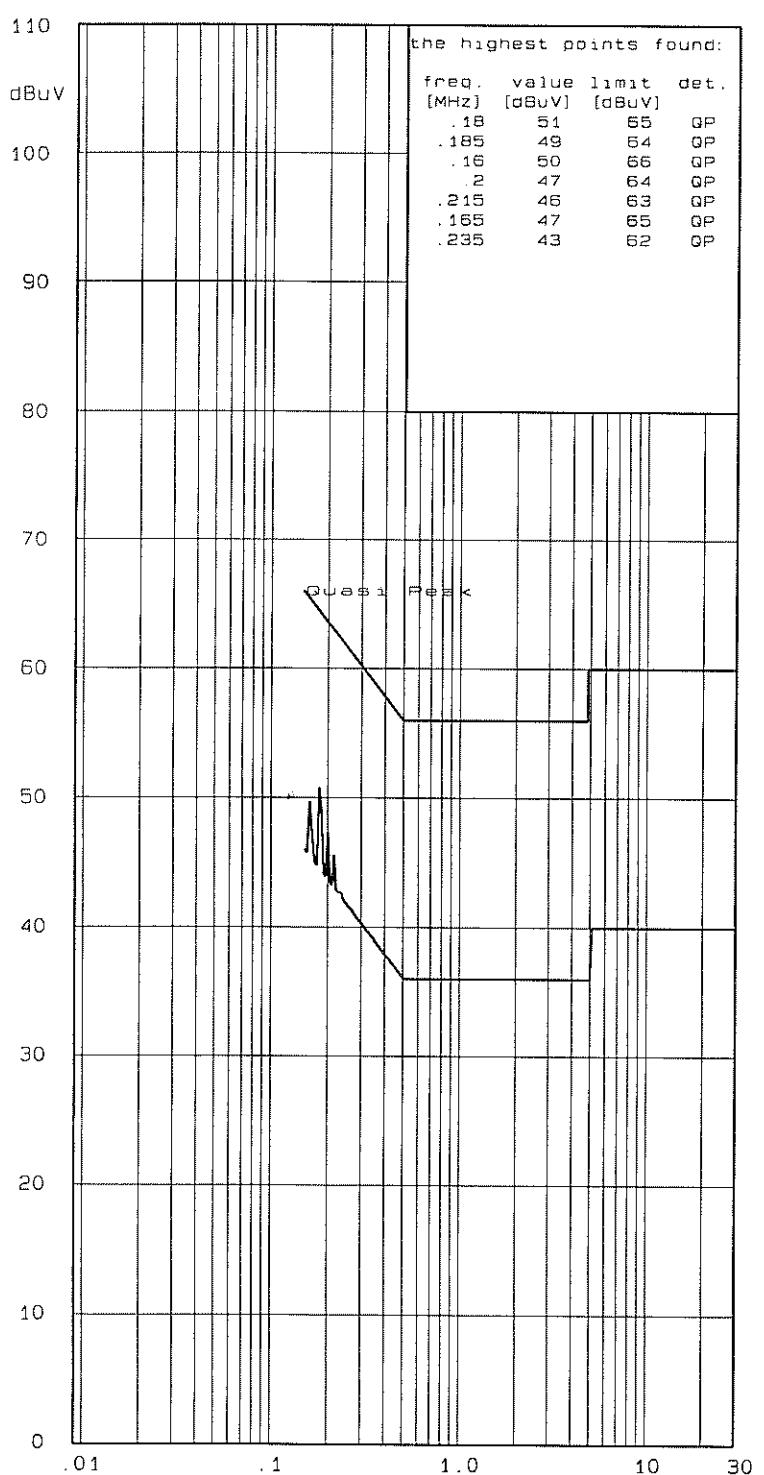
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**IT 1/2**

Interference voltage 150kHz – 30MHz  
Acc. FCC Part 15 Subpart B 15.107 and Subpart C 15.207



Spl./Ser.No.: 01/--

Client : UNION GAIN

Product: USB FM TRANSMITTER

IECC-No.: 49848

Date: 18 FEB 2008

Test equipment:

Rohde &amp; Schwarz ESHS-30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

DATA TRANSFER  
(L)

TEST W/ REFERENCE COMPUTER

--

RFI suppression parts:

--

\* two dB safety margin for  
type approval necessary

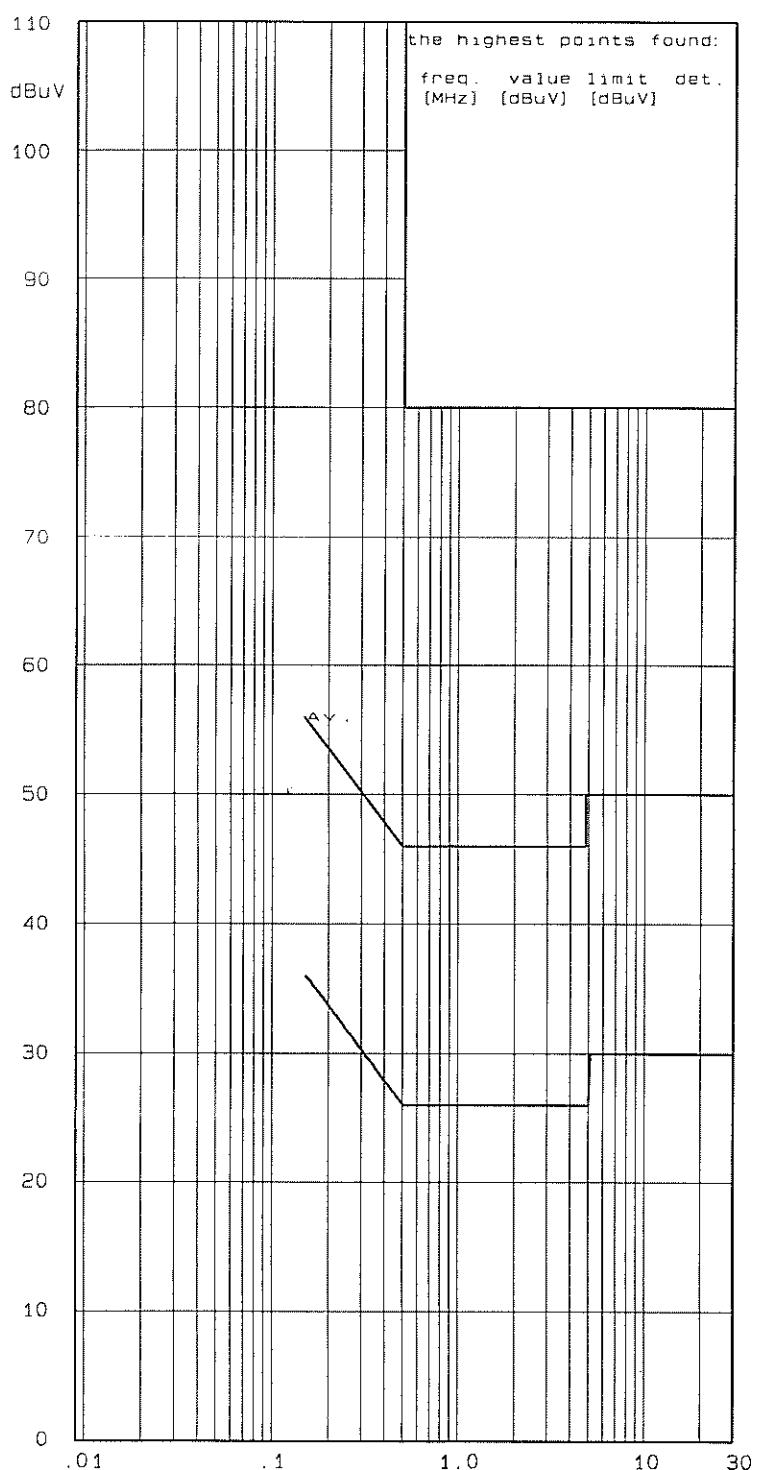
Operator: KT

Result: 

IECC

**IT 1/2**

Interference voltage 150kHz – 30MHz  
Acc. FCC Part 15 Subpart B 15.107 and Subpart C 15.207



Spl./Ser.No.: 01/--

Client : UNION GAIN

Product: USB FM TRANSMITTER

IECC-No.: 49848

Date: 18 FEB 2008

Test equipment:

Rohde &amp; Schwarz ESHS-30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

DATA TRANSFER

(L)

TEST W/ REFERENCE COMPUTER

--

RFI suppression parts:

--

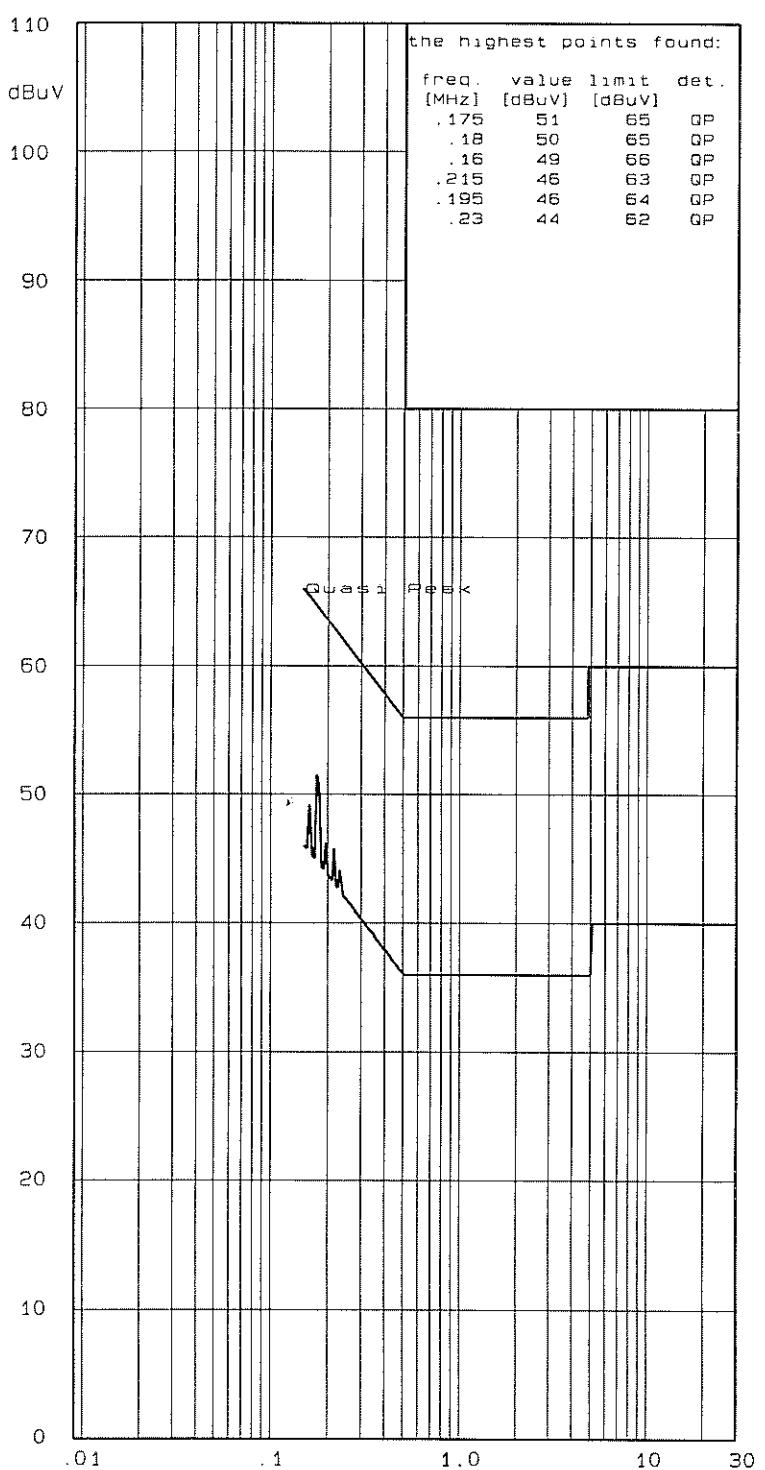
\* two dB safety margin for  
type approval necessary

Operator: KT

Result: 

IECC

## IT 1/2

Interference voltage 150kHz – 30MHz  
Acc. FCC Part 15 Subpart B 15.107 and Subpart C 15.207

Spl./Ser.No.: 01/--

Client : UNION GAIN

Product: USB FM TRANSMITTER

IECC-No.: 49848

Date: 18 FEB 2008

Test equipment:

Rohde &amp; Schwarz ESHS-30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

DATA TRANSFER

(N)

TEST W/ REFERENCE COMPUTER

--

RFI suppression parts:

--

\* two dB safety margin for  
type approval necessary

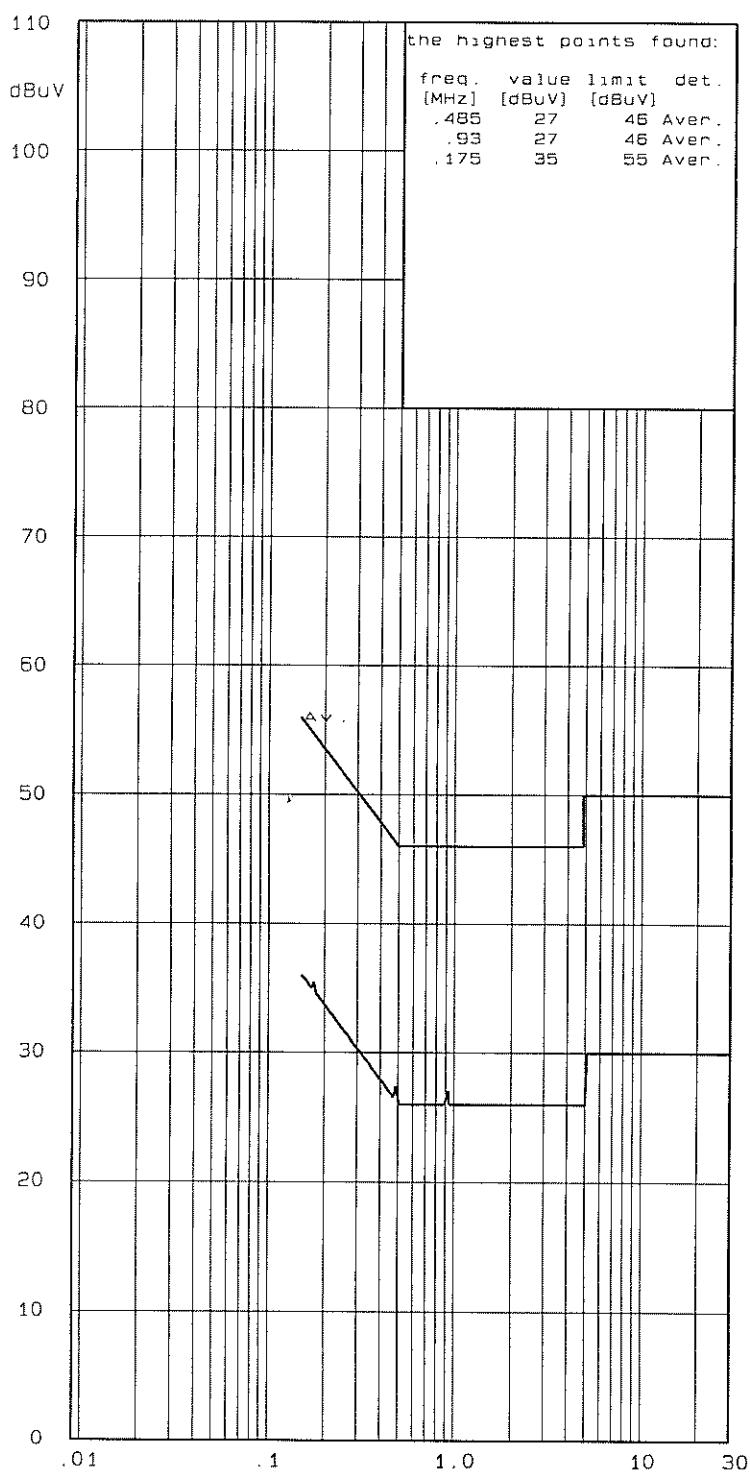
Operator: KT

Result:

IECC

**IT 1/2**

Interference voltage 150kHz – 30MHz  
Acc. FCC Part 15 Subpart B 15.107 and Subpart C 15.207



Spl./Ser.No.: 01/--

Client : UNION GAIN

Product: USB FM TRANSMITTER

IECC-No.: 49848

Date: 18 FEB 2008

Test equipment:

Rohde &amp; Schwarz ESHS-30

Schwarzbeck NSLK8127

Connected sets:

--

Operating mode:

DATA TRANSFER

(N)

TEST W/ REFERENCE COMPUTER

--

RFI suppression parts:

--

\* two dB safety margin for  
type approval necessary

Operator: KT

Result: 

IECC

## FCC – Test Report

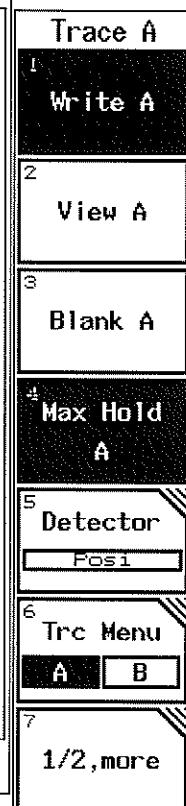
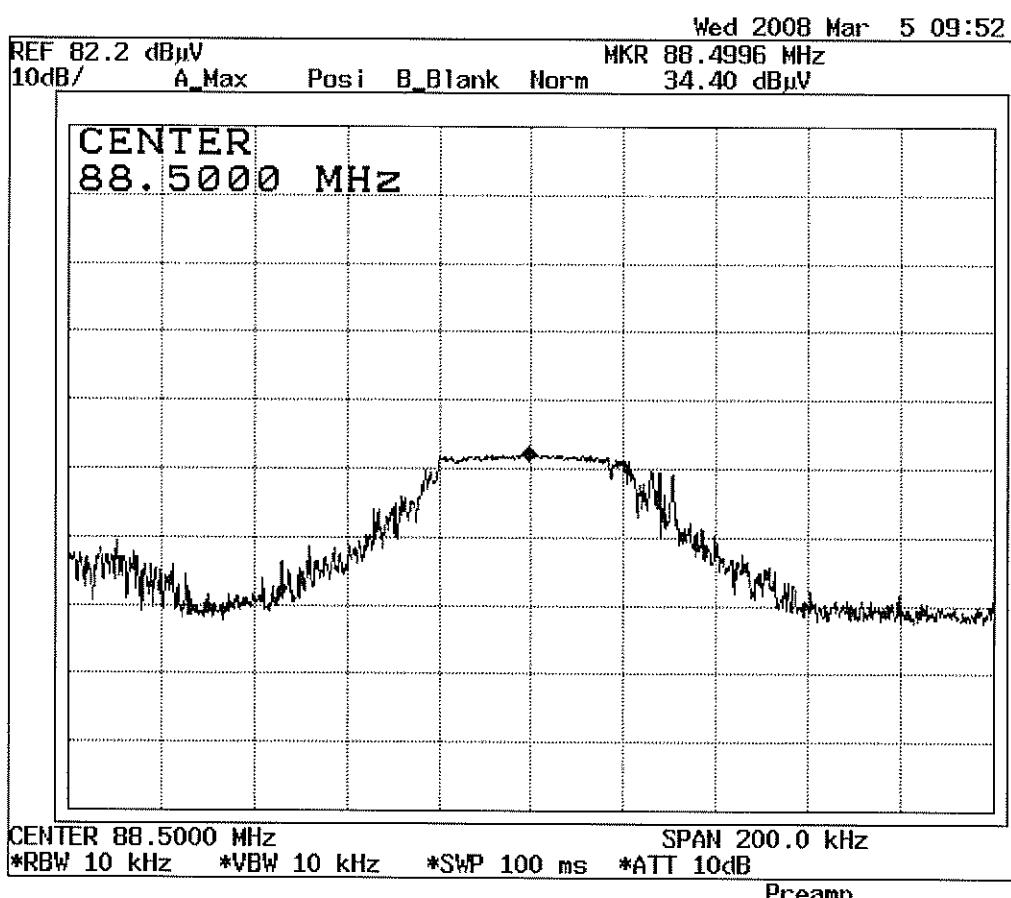
Date: 2008-03-05

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# Measurement Data of Emissions within Band Edges

Operation Frequency : 88.5 MHz



Result : The field strength of any emission within the operation band did not exceed 68 dB( $\mu$ V/m) for average value or 48 dB( $\mu$ V/m) for peak value. Refer to page 12 for the recorded value for the emission at the fundamental frequency.

## FCC – Test Report

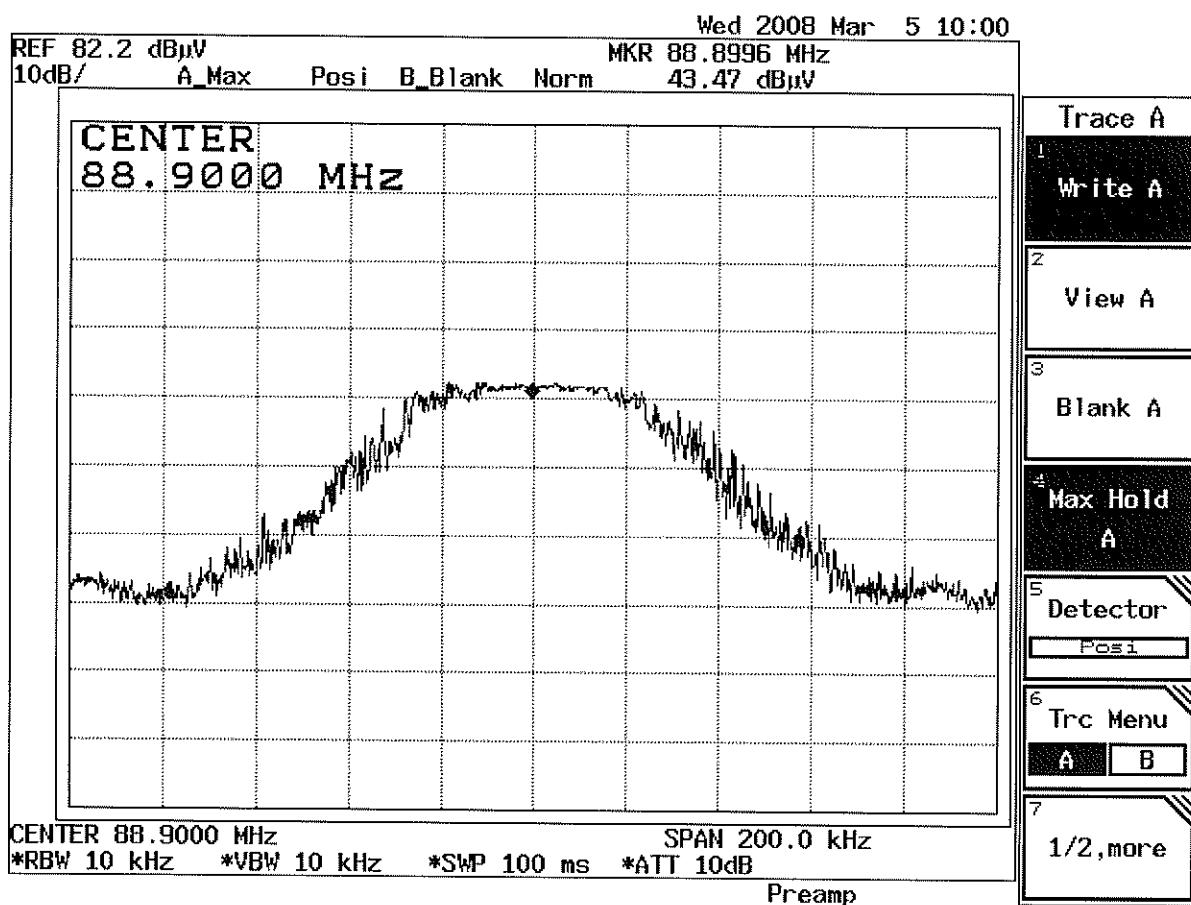
Date: 2008-03-05

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# Measurement Data of Emissions within Band Edges

Operation Frequency : 88.9 MHz



Result : The field strength of any emission within the operation band did not exceed 68 dB( $\mu$ V/m) for average value or 48 dB( $\mu$ V/m) for peak value. Refer to page 13 for the recorded value for the emission at the fundamental frequency.

## FCC – Test Report

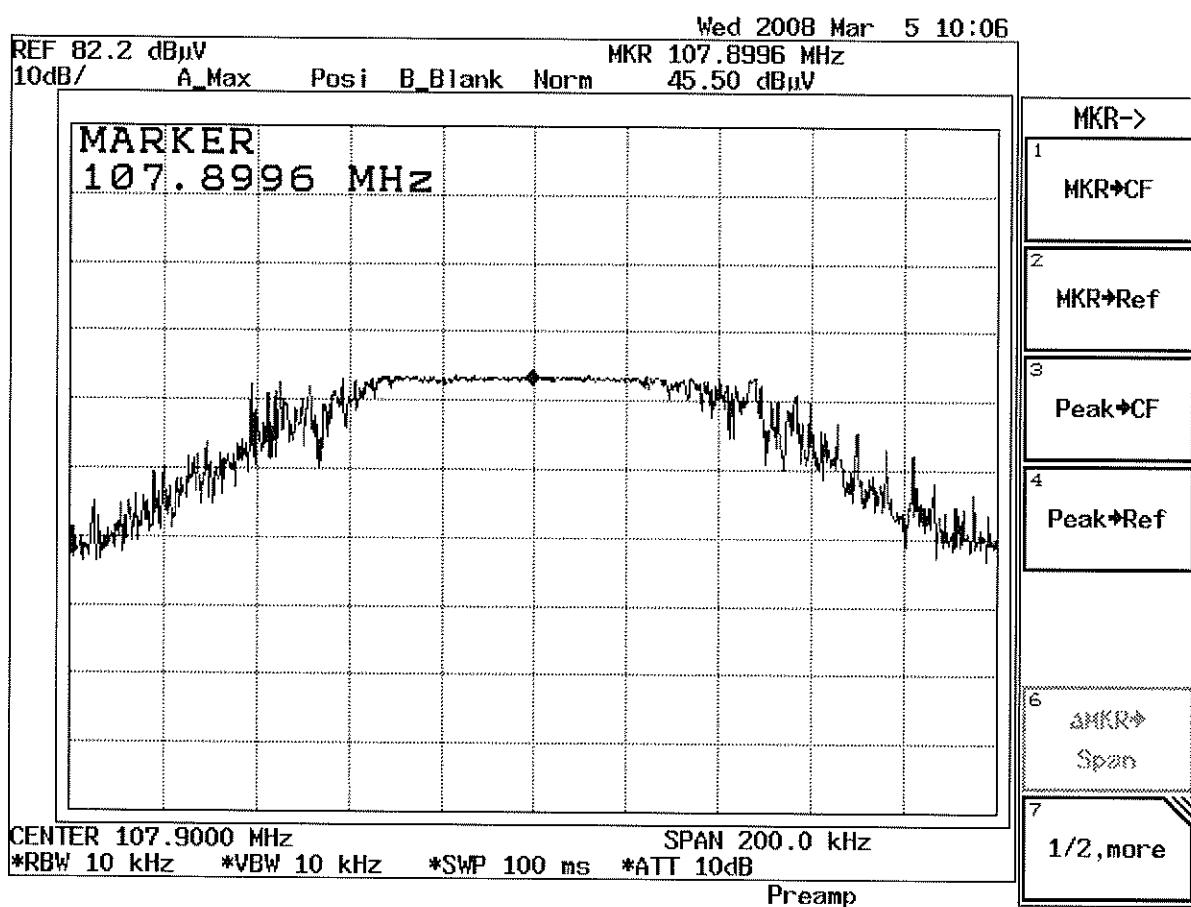
Date: 2008-03-05

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# Measurement Data of Emissions within Band Edges

Operation Frequency : 107.9 MHz



Result : The field strength of any emission within the operation band did not exceed 68 dB( $\mu$ V/m) for average value or 48 dB( $\mu$ V/m) for peak value. Refer to page 14 for the recorded value for the emission at the fundamental frequency.

**FCC – Test Report**Date: 2008-03-05**No. 49848**

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**Photo of Sample**