FCC TEST REPORT

for

FM transmitter

Model No. : i707A

FCC ID : TZ9i707A

Operating

Frequency: 88.1-107.9MHz

Applicant : SEATUNE ELECTRONICS CO., LTD

27, Shuikou Avenue, ShuiKou Town, HuiZhou City,

Guangdong, China

Regulation : FCC Part 15.239 Subpart C

Prepared by : Shenzhen AOV Testing Technology Co., Ltd.

2-6/F, No.5, Yuantou Lane, Tanglang, Taoyuan Street,

Nanshan District, Shenzhen, Guangdong, China

Test Date : July 1-10, 2009

Date of Report: July 13, 2009

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TEST REPORT DECLARATION

Applicant : SEATUNE ELECTRONICS CO., LTD Manufacturer : SEATUNE ELECTRONICS CO., LTD

EUT Description : FM transmitter

Test Procedure Used: FCC Part 15.239 Subpart C

The E. U. T. listed below has been completed RFI testing by Shenzhen AOV Testing Technology Co., Ltd at the test site of Bontek Compliance Testing Laboratory Ltd. And the Interference emissions can pass **FCC CLASS B** limitations.

The test configurations and the facility comply with the radiated and AC line conducted test site criteria in **ANSI C63.4-2003**.

Date of Test:	July 1-10, 2009	_
Prepared by:	tons.	
	Project Engineer	
Reviewer :	In the second	
	Project Manager	

1. GENERAL INFORMATION

1.1 General Information

Applicant : SEATUNE ELECTRONICS CO., LTD

27, Shuikou Avenue, ShuiKou Town, HuiZhou City,

Guangdong, China

Manufacturer: SEATUNE ELECTRONICS CO., LTD

27, Shuikou Avenue, ShuiKou Town, HuiZhou City,

Guangdong, China

1.2 Test Facility

Test Firm : Bontek Compliance Testing Laboratory Ltd.

Certificated by FCC, Registration No.: 338263

Address : FL.1, Building H-3, Hua Qiao Cheng East Industrial Area

Qiaocheng East Road, Nanshan, Shenzhen, P.R.China

Tel : 86-755-86337020 Fax : 86-755-86337028

1.3Test Instrument Used

No.	Equipment	Manufacturer	Model No.	S/N	Calculator date
1.	EMI Test Receiver	R&S	ESCI	100687	2009-2-22
2.	Amplifier	HP	8447D	1937A02492	2009-2-22
3.	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2009-2-22
4.	Horn Antenna	SCHWARZBECK	BBHA9120A	B08000991-00 01	2009-2-27
5.	High Field Biconical Antenna	ELECTRO-METRICS	EM-6913	166	2009-2-22
6.	Log Periodic Antenna	ELECTRO-METRICS	EM-6950	811	2009-2-22
7.	Remote Active Vertical Antenna	ELECTRO-METRICS	EM-6892	304	2009-2-22
8.	Teo Line Single Phase Module	SCHWARZBECK	NSLK8128	D-69250	2009-2-22
9.	Positioning Controller	C&C	CC-C-1F	MF7802113	2009-2-27
10.	Triple-Loop Antenna	EVERFINE	LLA-2	607004	2009-2-22
11.	10dB attenuator	SCHWARZBECK	MTAIMP-136	R65.90.0001#0	2009-2-22

2. RADIATION INTERFERENCE

2.1. Rules Part No.

15.239

2.2.Limits

The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter (48 dBuV/m) at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in Section 15.35 for limiting peak emissions apply.

The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emission limits in Section 15.209.

Frequency of (MHz)	Emission Field Strength (microvolts/meter)
30 - 88	100 (40)
88 - 216	150 (43.5)
216 - 960	200 (46.0)
Above 960	500 (54.0)

2.3.Test Procedure

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES:

The EUT is placed on a turned table that is 0.8 meter above the ground. The turned 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 that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (log periodical antenna and horn antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz.

The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

2.4.Test Result

PASS

Low Channel: 88.1MHz

Field Strength of Fundamental:

Horizontal:

Frequency	PK	Read Level	Limit	(AV)Margin
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)
88.100	35.7	32.9	48.0	15.10

Vertical:

Frequency	PK	Read Level	Limit	(AV)Margin
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)
88.100	33.5	31.0	48.0	

Field Strength of Spurious Emission:

Horizontal:

Frequency (MHz)	PK (dBuV/m)	Read Level (dBuV/m)	Limit (dBuV/m)	(PK)Margin (dBuV/m)
125.29	21.13		43.5	22.20
363.05	24.96		46.0	21.10
373.08	33.23		46.0	12.77
440.08	35.84		46.0	10.16
586.93	35.34		46.0	10.66

Vertical:

Frequency	PK	Read Level	Limit	(PK)Margin
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)
125.60	21.74		43.5	21.76
259.89	28.08		46.0	17.92
373.89	35.16		46.0	10.84
456.70	33.89		46.0	12.11
581.80	34.42		46.0	11.58

Middle Channel: 98.0MHz

Field Strength of Fundamental:

Horizontal:

Frequency	PK	Read Level	Limit	(AV)Margin
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)
98.000	34.9	32.8	48.0	

Vertical:

Frequency	PK	Read Level	Limit	(AV)Margin
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)
98.000	33.3	30.3	48.0	

Field Strength of Spurious Emission:

Horizontal:

Frequency (MHz)	PK (dBuV/m)	Read Level (dBuV/m)	Limit (dBuV/m)	(PK)Margin (dBuV/m)
189.65	27.83		43.5	15.67
285.35	29.32		46.0	16.68
367.93	30.90		46.0	15.10
575.29	33.58		46.0	12.42
571.29	34.98		46.0	11.02

Vertical:

Frequency	PK	Read Level	Limit	(PK)Margin
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)
285.42	25.18		46.0	20.82
365.32	29.15		46.0	16.85
513.66	30.89		46.0	15.11
521.34	32.36		46.0	13.64
626.79	32.82		46.0	13.18

High Channel: 107.9MHz

Field Strength of Fundamental:

Horizontal:

Frequency	PK	Read Level	Limit	(AV)Margin
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)
107.900	32.1	31.5	48.0	16.50

Vertical:

Frequency	PK	Read Level	Limit	(AV)Margin
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)
107.900	30.6	33.5	48.0	14.50

Field Strength of Spurious Emission:

Horizontal:

Frequency (MHz)	PK (dBuV/m)	Read Level (dBuV/m)	Limit (dBuV/m)	(PK)Margin (dBuV/m)
199.02	21.06		43.5	22.44
278.86	23.59		46.0	22.41
350.31	25.66		46.0	20.34
433.24	30.88		46.0	15.12
515.85	32.36		46.0	13.64

Vertical:

Frequency (MHz)	PK (dBuV/m)	Read Level (dBuV/m)	Limit (dBuV/m)	(PK)Margin (dBuV/m)
200.45	20.39		43.5	16.89
312.27	22.67		46.0	23.33
433.65	26.03		46.0	19.97
533.56	30.98		46.0	15.02
659.53	33.87		46.0	12.13

3. BANDWIDTH

3.1.Test Standard

15.239

3.2.Limits

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

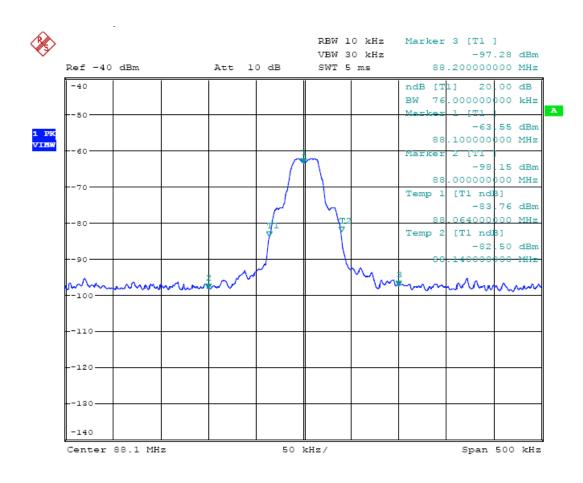
3.3.Test Procedure

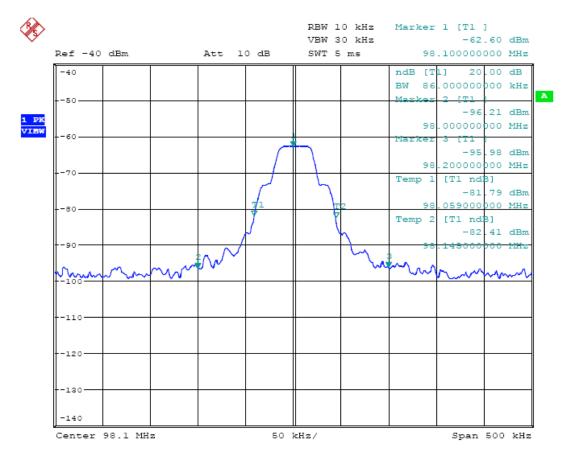
Record the respond of frequency waveform when the EUT was working by a spectrum analyzer or EMI Receiver.

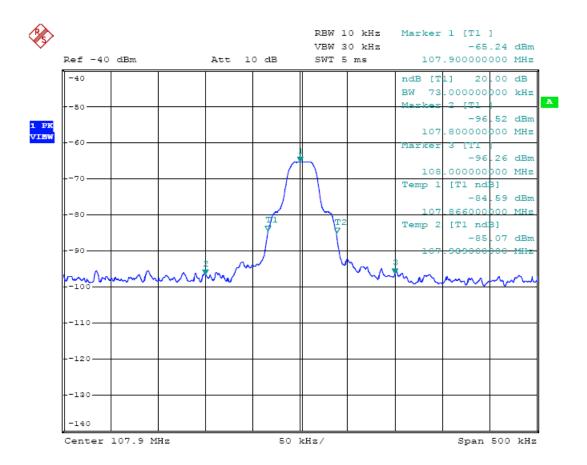
3.4.Test Result

PASS

Detailed information, Please refer to the following page.







4. PHOTOGRAPH OF TEST

Front View



Rear View

