



卓時檢測  
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No:

FCC FCC 0806056-02

File reference No:

2008-07-14

Applicant: NEXSTAR, INC.

Product: GPS

Model No: K4

Trademark: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.239

Test result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.239 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung  
Manager

Dated: July 14, 2008

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD**

5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,  
Shenzhen,CHINA.

Tel (755) 83448688

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### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 899988**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.:899988.

#### **IC- Registration No.: IC5205A-01**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration No.: IC 5205A-01.

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD  
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,  
Shenzhen,CHINA.  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m & 10 m OATS  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-01  
For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: Nextar, INC.  
Address: 1661 Fairplex Drive, La Verne, CA 91750. USA  
Telephone: +1-909-392-8282  
Fax: +1-909-392-8283

### 1.3 Description of EUT

Product: GPS  
Brand Name: N/A  
Model Number: K4  
Additional Model Name N/A  
Rating: Input: 5V DC, 2A  
Power Supply Model: KSAC0500200W1US, Input: 100-240V~, 1A, 50/60Hz; Output: DC5V, 2A  
Operation Frequency 99.0MHz to 107.9MHz  
Frequency Tuning The frequency tuning controls have been manually adjusted to the highest and lowest TX frequency. The center frequencies of the tuning range are within 99.0MHz to 107.9MHz.  
Type of Modulation FM  
Antenna Designation A permanent fixed antenna, which is built-in, designed as an indispensable part of the EUT.

### 1.4 Submitted Sample: 1 Sample

### 1.5 Test Duration: 2008-06-17 to 2008-07-14

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions Uncertainty =4.7dB

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1.7 Test Engineer

*Terry Tang*

The sample tested by \_\_\_\_\_

Print Name: Terry Tang

## 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2008.2.23	1 Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
LISN	NTFM8132	8132137	SCHWARZBECK	2008.2.24	1 Year
LISN	NTFM8134	8134109	SCHWARZBECK	2008.2.24	1 Year
LISN	NTFM8136	8136102	SCHWARZBECK	2008.2.24	1 Year

### 2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2008.2.23	1 Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer(with Tracking Generator)	MS2661C	MT72089	ANRITSU	2008.2.23	1 Year
Amplifier	MH648A	M20494	ANRITSU	2008.2.24	1 Year
Bilog Antenna	CBL6101C	2576	CHASE	2008.2.23	1 Year

### 2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
PC	8434	--	IBM	--	--
CRT Monitor	6331-4CN	23-DNWX3	IBM	--	--

### 2.4 I/O Cable

Cable No.	Port	Connector Type	Cable Type	Cable Length
1	VGA	VGA	Unshielded	1.5
2	AC	IEC	Unshielded	1.5
3	AC	IEC	Unshielded	2.0

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### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207 and 15.107	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.239 Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209 and 15.109	Radiated Emission Test	PASS	Meets Class B Limit
Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the Radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).	Band Edge Test	PASS	The field strength of any Emissions, which appear Outside of this band, shall not exceed the general Radiated emission limits in Section 15.209.

#### 3.2 Test Standards

**FCC Part 15 Subpart C, Paragraph 15.239**

#### 4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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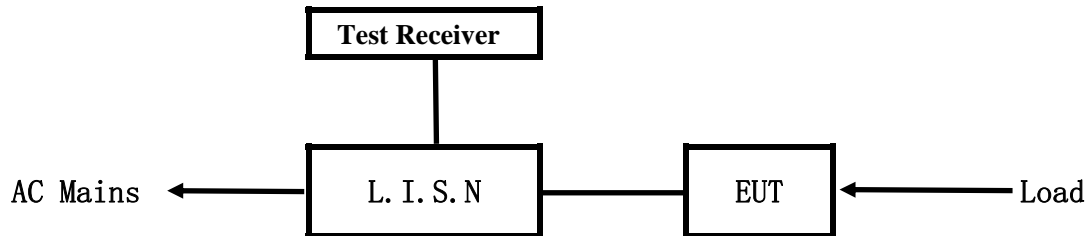
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## 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test

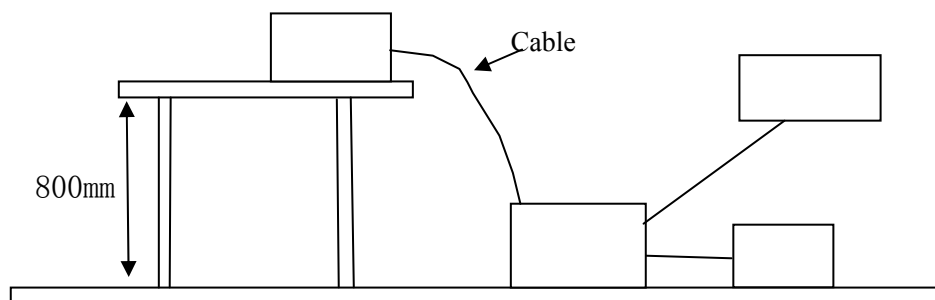


EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the Appropriate peripherals. All peripherals and cables are listed below.

Note: EUT can be powered by vehicle with 12V electrical system or batteries. During radiated emission test, EUT power by a regulated DC power supply because it produced more emission at this time.

#### A. EUT

Device	Manufacturer	Model	FCC ID
GPS	Wanlida Group Co., Ltd..	K4	WJNK4

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

A Setup the EUT and simulators as shown on follow

B Set the volume to the maximum on the GPSr and play a music to produce a typical signal, but Not a 1kHz signal.

C the frequency tuning controls have been manually adjusted to the highest and lowest TX frequency. The center frequencies of the tuning range are within 99.0MHz to 107.9MHz.

5.5 Power line conducted Emission Limit according to Paragraph 15.207 and 15.107

Frequency (MHz)	Class A Limits (dB $\mu$ V)		Class B Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

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

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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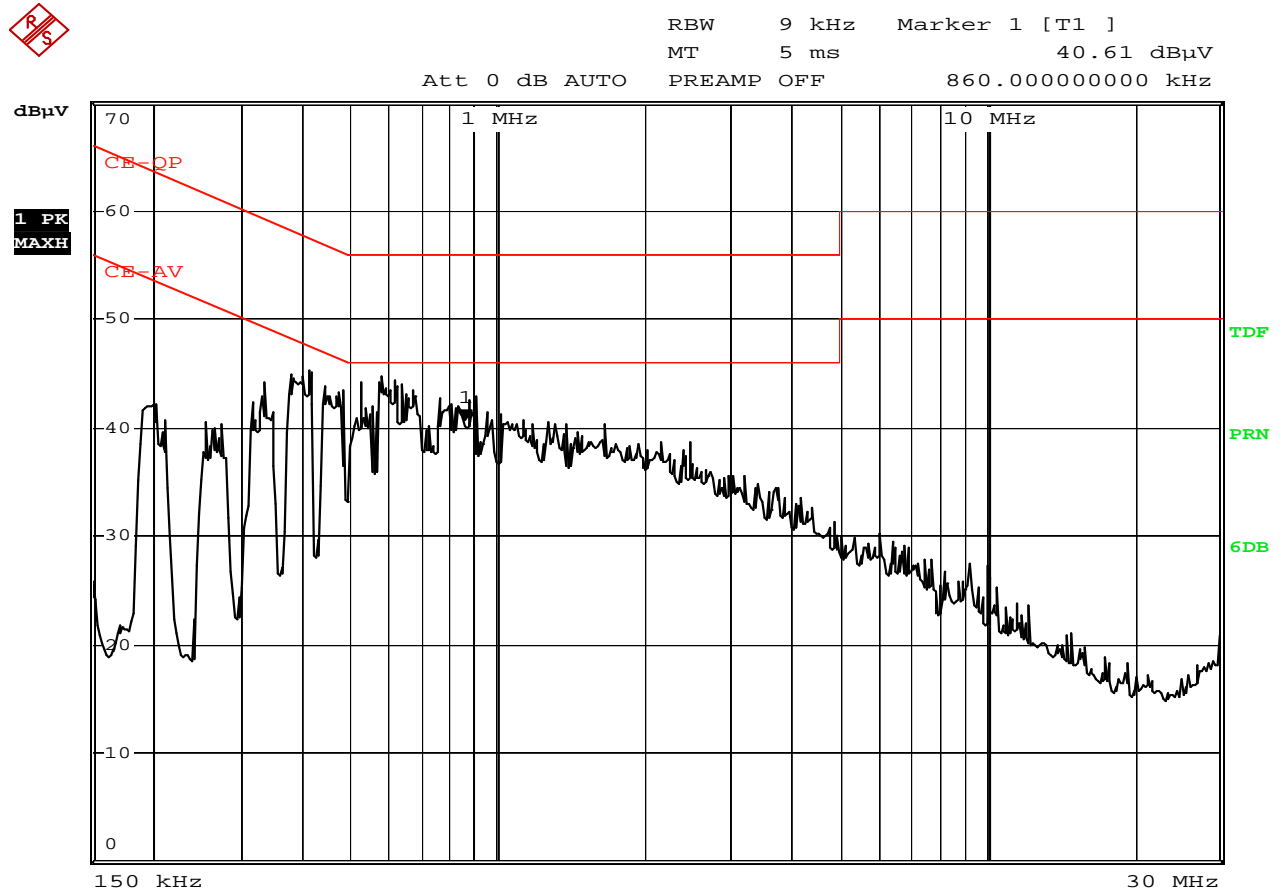
**A: Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Keep Transmitting at 107.9M

**Level Class B**

**Results: Pass**

Please refer to following diagram for individual



Date: 1.JUL.2008 16:14:55

Frequency (MHz)	Reading(dBμV)				Limit	
	Live		Neutral		(dBμV)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.414	38.54	26.10	-	-	57.6	47.6
0.576	36.21	25.11	-	-	56.0	46.0
0.616	36.76	25.98	-	-	56.0	46.0

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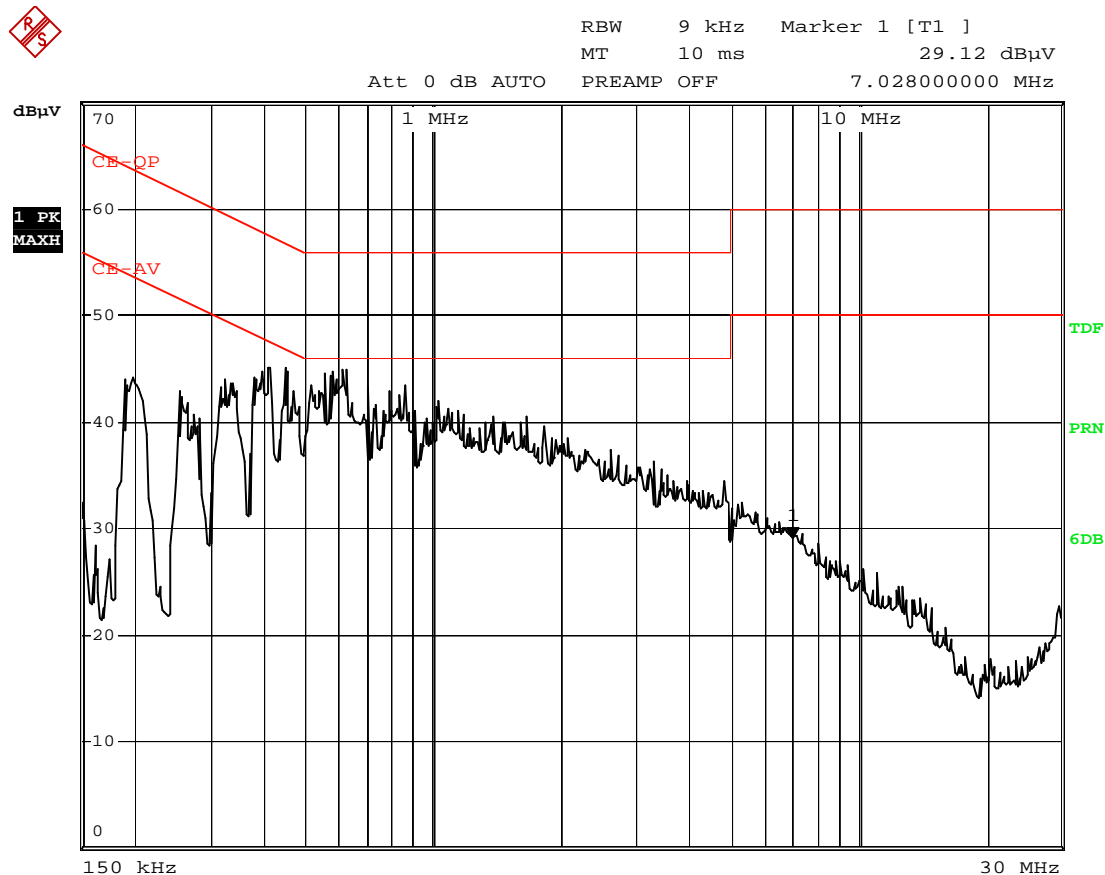
**B: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Keep Transmitting at 107.9M

**Level Class B**

**Results: Pass**

Please refer to following diagram for individual



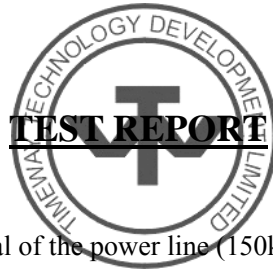
Date: 1.JUL.2008 16:12:28

Frequency (MHz)	Reading(dBμV)				Limit	
	Live		Neutral		(dBμV)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.414	-	-	39.76	27.32	57.6	47.6
0.450	-	-	37.65	27.54	56.9	46.9
0.624	-	-	37.87	26.76	56.0	46.0
0.860	-	-	33.65	25.43	56.0	46.0

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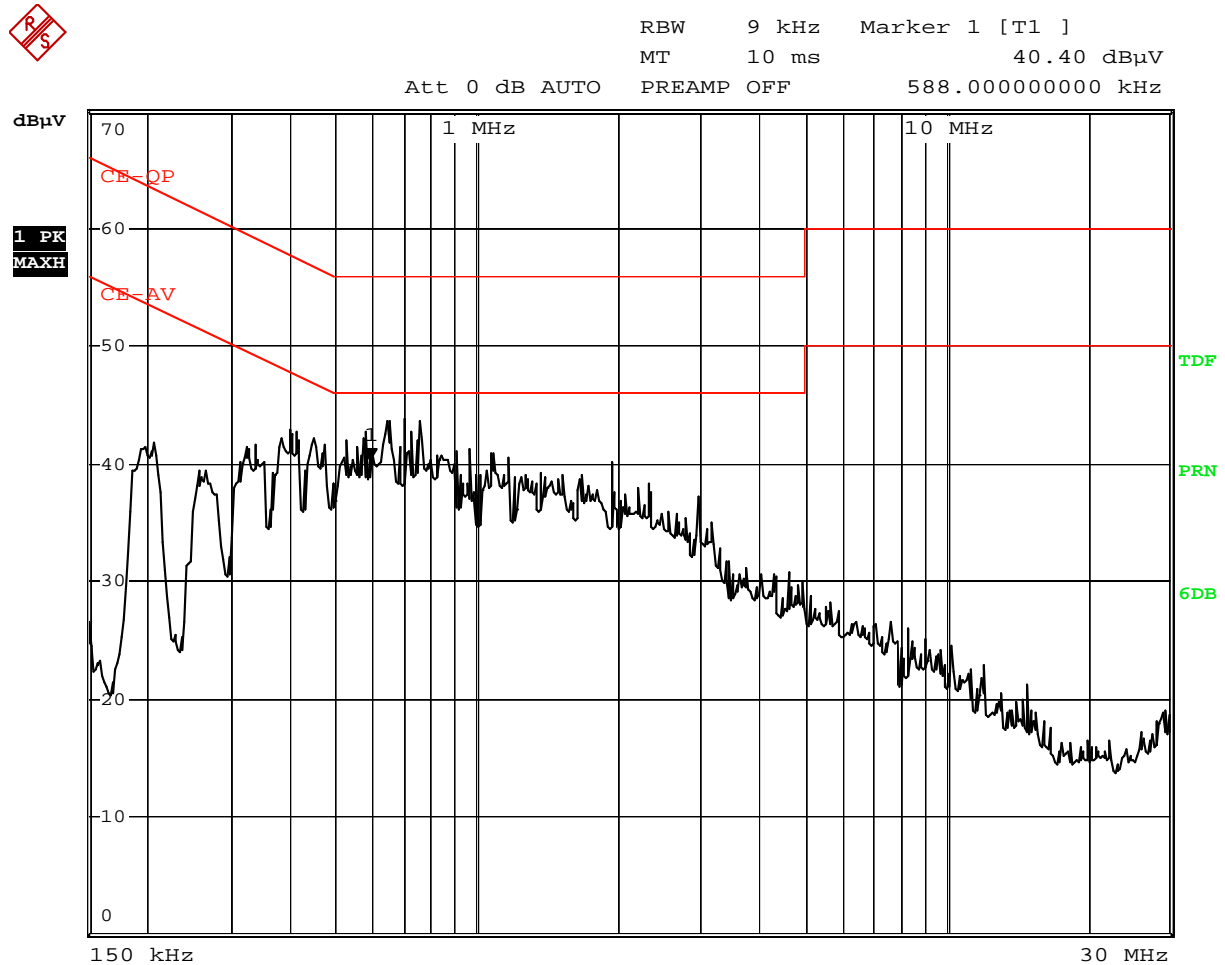
**C: Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Keep Transmitting at 103.6M

**Level Class B**

**Results: Pass**

Please refer to following diagram for individual



Date: 1.JUL.2008 16:25:40

Frequency (MHz)	Reading(dBμV)				Limit	
	Live		Neutral		(dBμV)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.704	36.76	23.43	-	-	56.0	46.0
0.756	35.76	23.54	-	-	56.0	46.0

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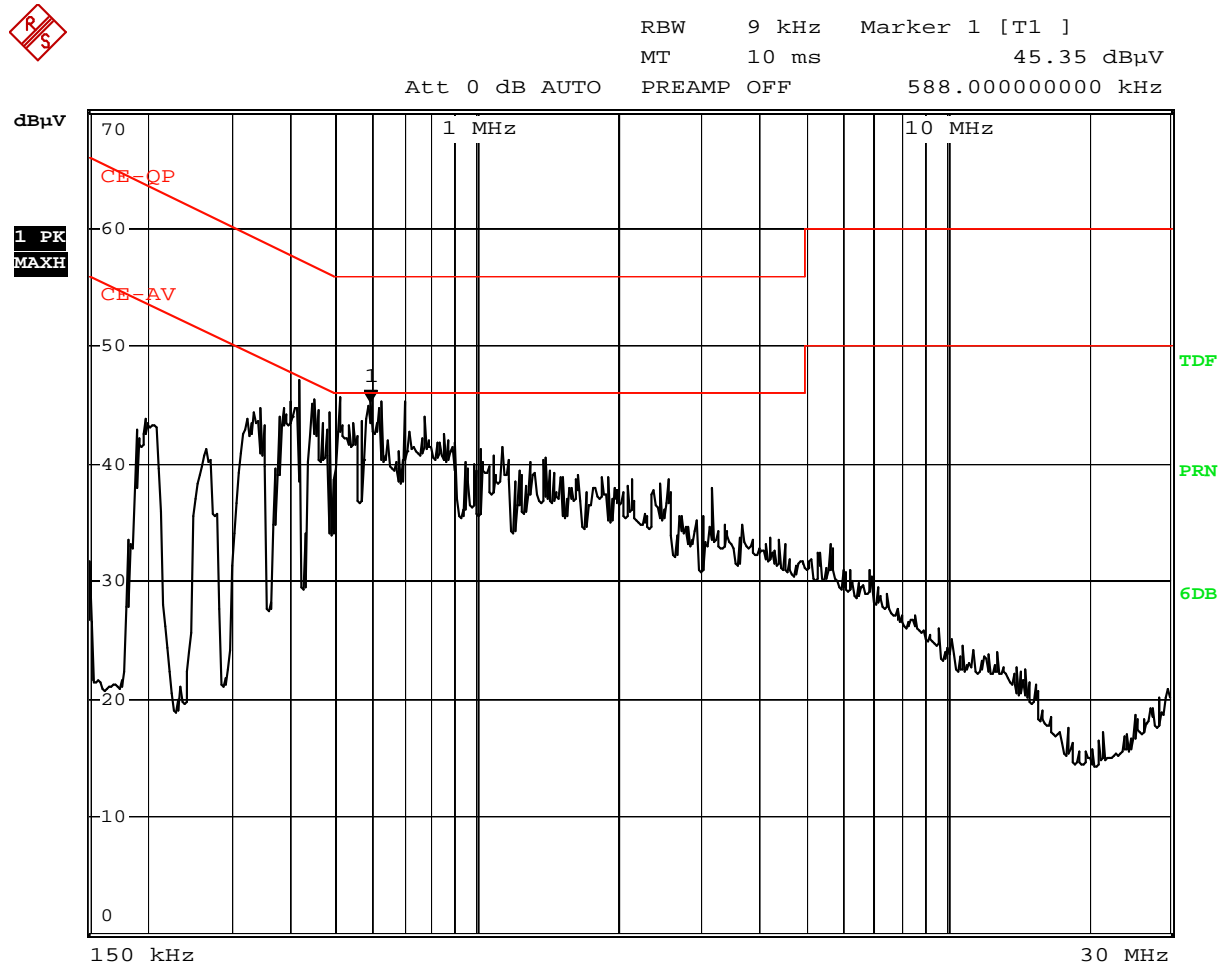
**D: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Keep Transmitting at 103.6M

**Level**                      **Class B**

**Results:**                      **Pass**

Please refer to following diagram for individual



Date: 1.JUL.2008 16:23:29

Frequency (MHz)	Reading(dBμV)				Limit	
	Live		Neutral		(dBμV)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.446	-	-	38.87	27.43	56.9	46.9
0.588	-	-	37.86	27.32	56.0	46.0

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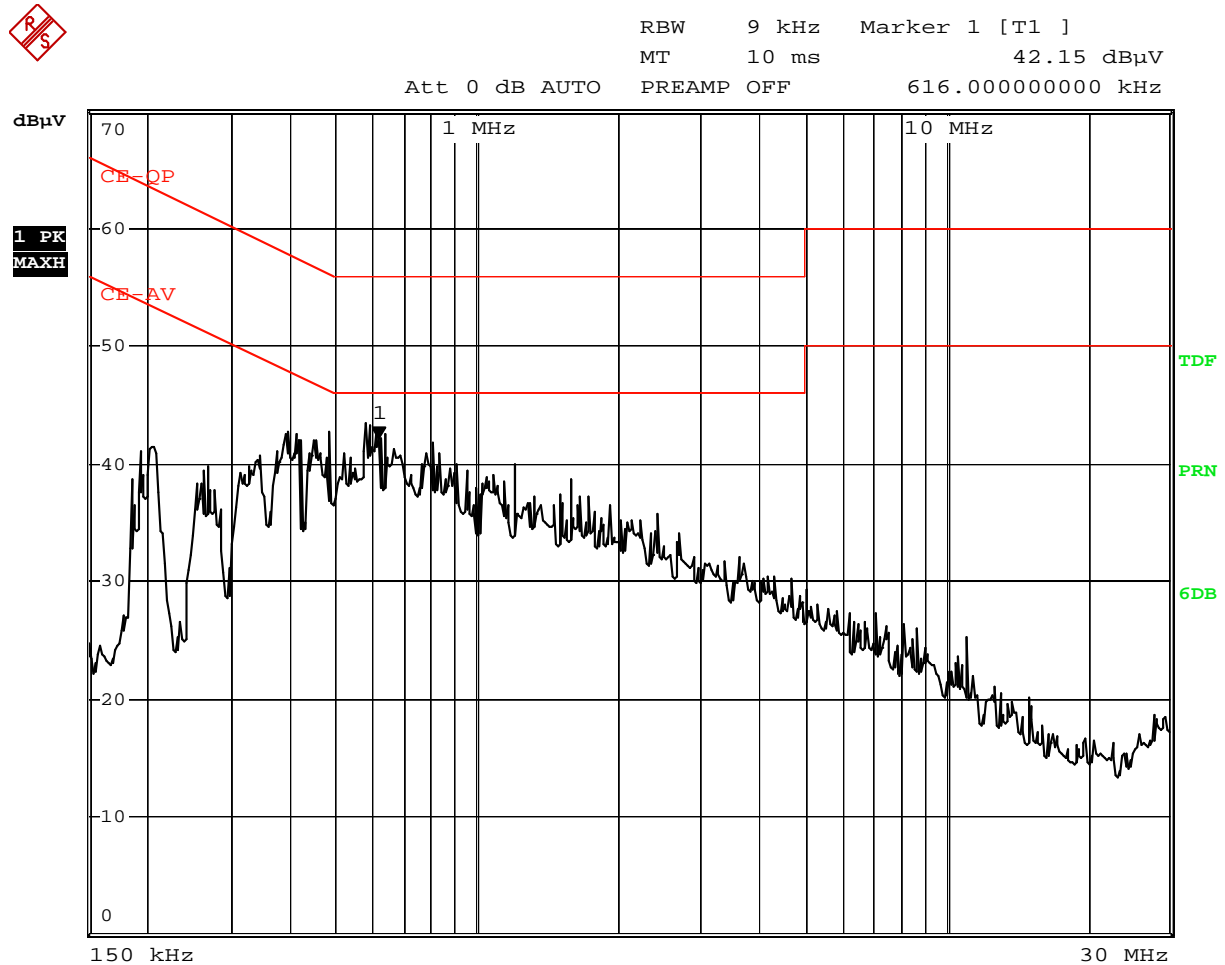
E: Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Keep Transmitting at 99.0M

Level Class B

Results: Pass

Please refer to following diagram for individual



Date: 1.JUL.2008 16:17:42

Frequency (MHz)	Reading(dBμV)				Limit	
	Live		Neutral		(dBμV)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.580	36.21	25.83	-	-	56.0	46.0
0.808	37.87	24.32	-	-	56.0	46.0

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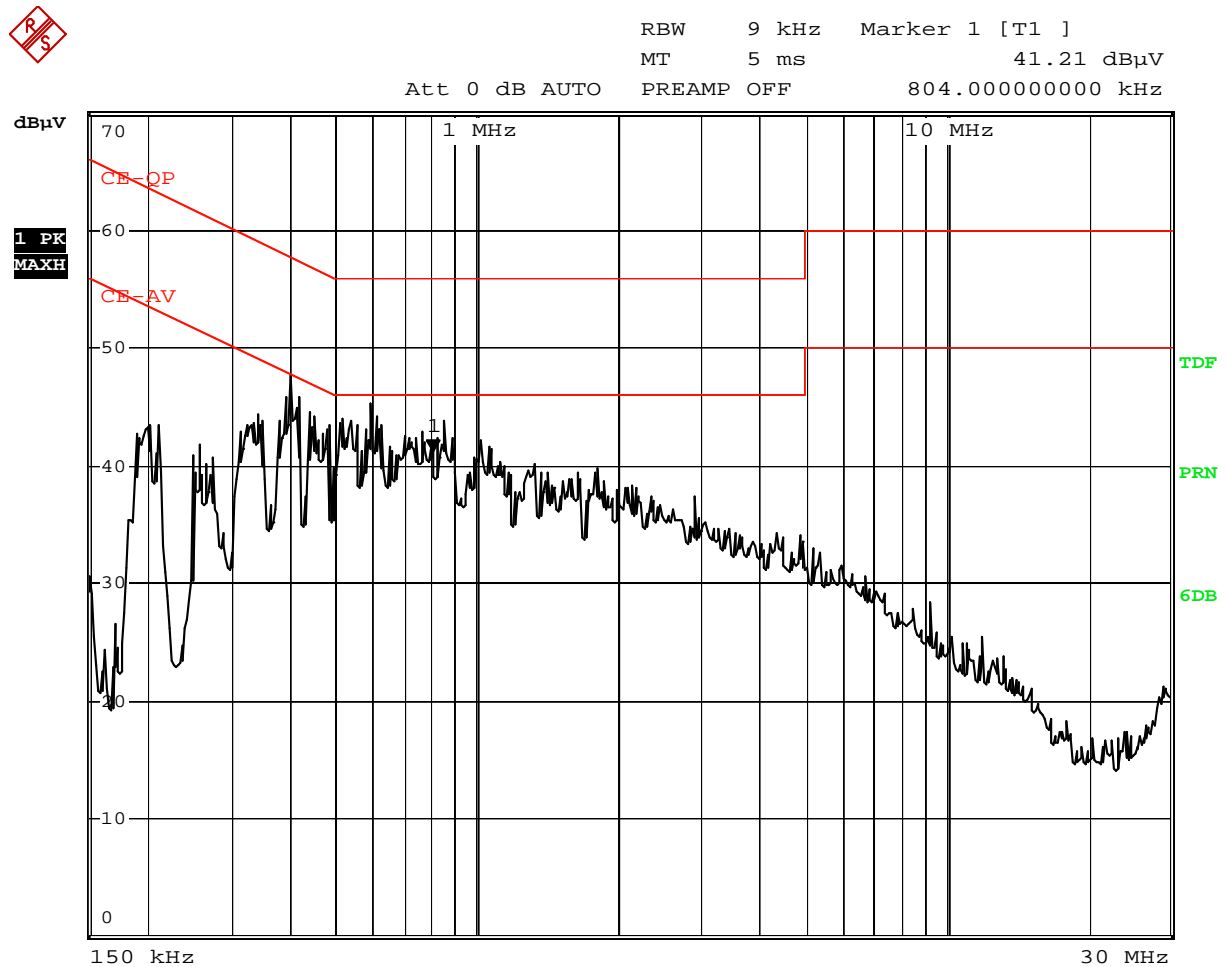
**F: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Keep Transmitting at 99.0M

**Level**                      **Class B**

**Results:**                      **Pass**

Please refer to following diagram for individual



Date: 1.JUL.2008 16:20:11

Frequency (MHz)	Reading(dBμV)				Limit	
	Live		Neutral		(dBμV)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.402	-	-	39.32	29.54	57.8	47.8
0.592	-	-	37.65	27.87	56.0	46.0

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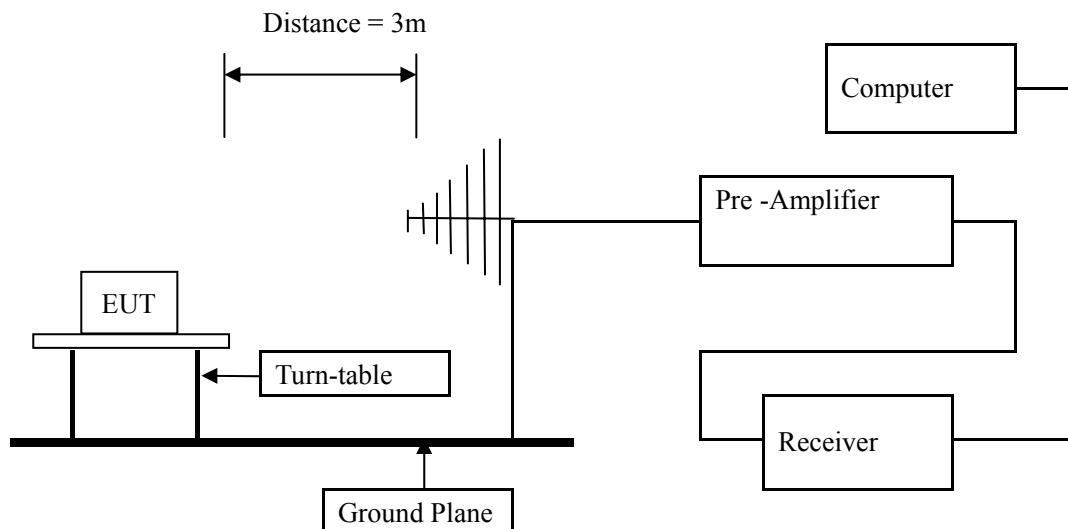


## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

#### Block diagram of Test setup



### 6.2 Configuration of The EUT Same as section 5.3 of this report

### 6.3 EUT Operating Condition Same as section 5.4 of this report.

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#### 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

##### A FCC Part 15 Subpart C Paragraph 15.239 Limit

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)	
	uV/m	dBuV/m
88 to 108	250	47.96

- Note:
1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
  2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
  3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

##### B. Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
  2. In the Above Table, the tighter limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

#### 6.5 Test result

##### A Fundamental Radiated Emission Data

Product:	GPS	Test Mode:	99.0MHz
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	120V~	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
99.08	48.79 (PK)/43.21(AV)	Vertical	67.96/47.96	-9.17/-4.75
99.08	46.32 (PK)/39.43(AV)	Horizontal	67.96/47.96	-21.64/8.53

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Product:	GPS	Test Mode:	103.6MHz
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	120V~	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
103.6	52.23 (PK)/45.10(AV)	Vertical	67.96/47.96	-15.63/-2.86
103.6	46.11 (PK)/39.23(AV)	Horizontal	67.96/47.96	-21.85/-8.73

Product:	GPS	Test Mode:	107.9MHz
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	120V~	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
107.9	51.21 (PK)/46.53(AV)	Vertical	67.96/47.96	-16.75/-1.43
107.9	49.65 (PK)/43.73(AV)	Horizontal	67.96/47.96	-18.31/-4.23

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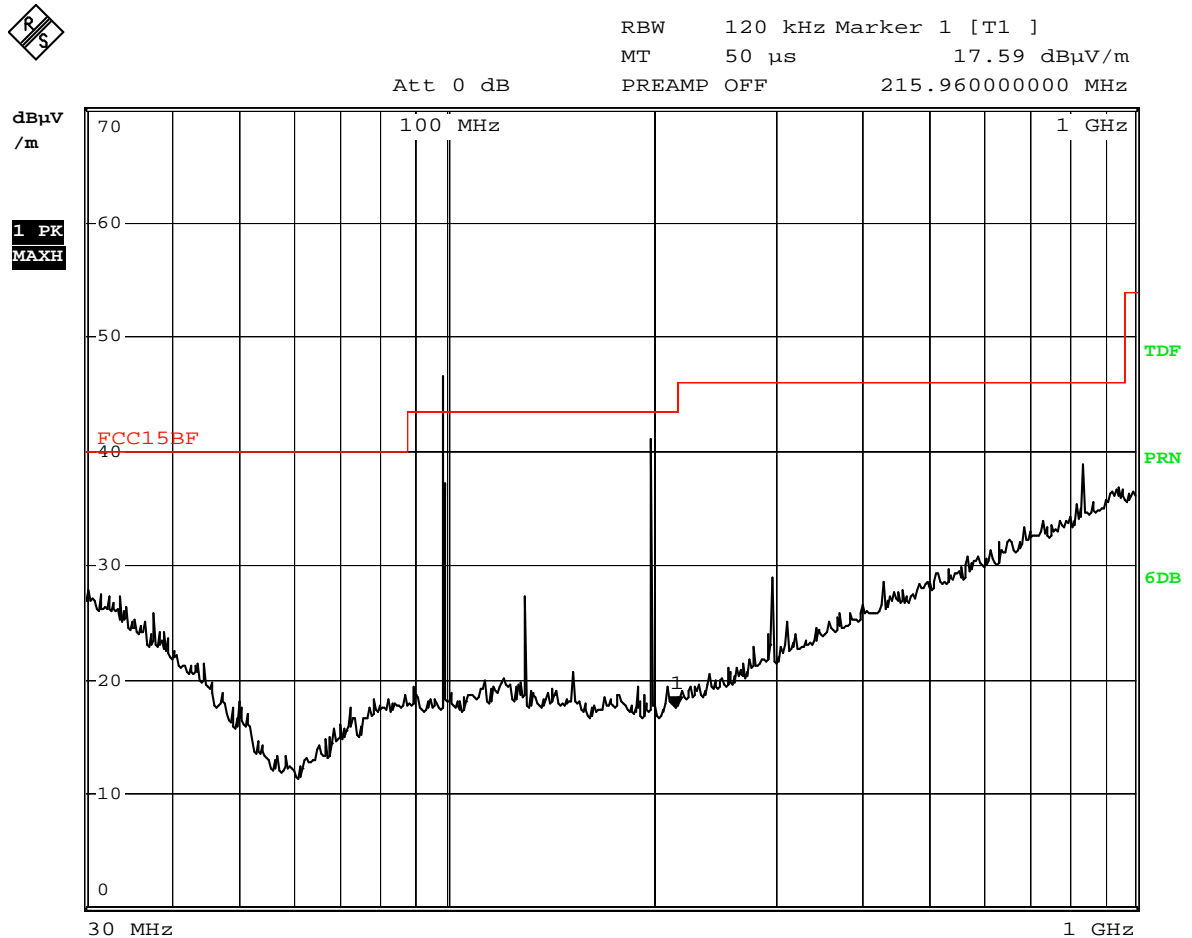
B1. **General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: 99.0MHz

**Results: Pass**

Please refer to following diagram for individual



Date: 7.JUL.2008 19:46:20

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
198.16	41.32	H	43.50

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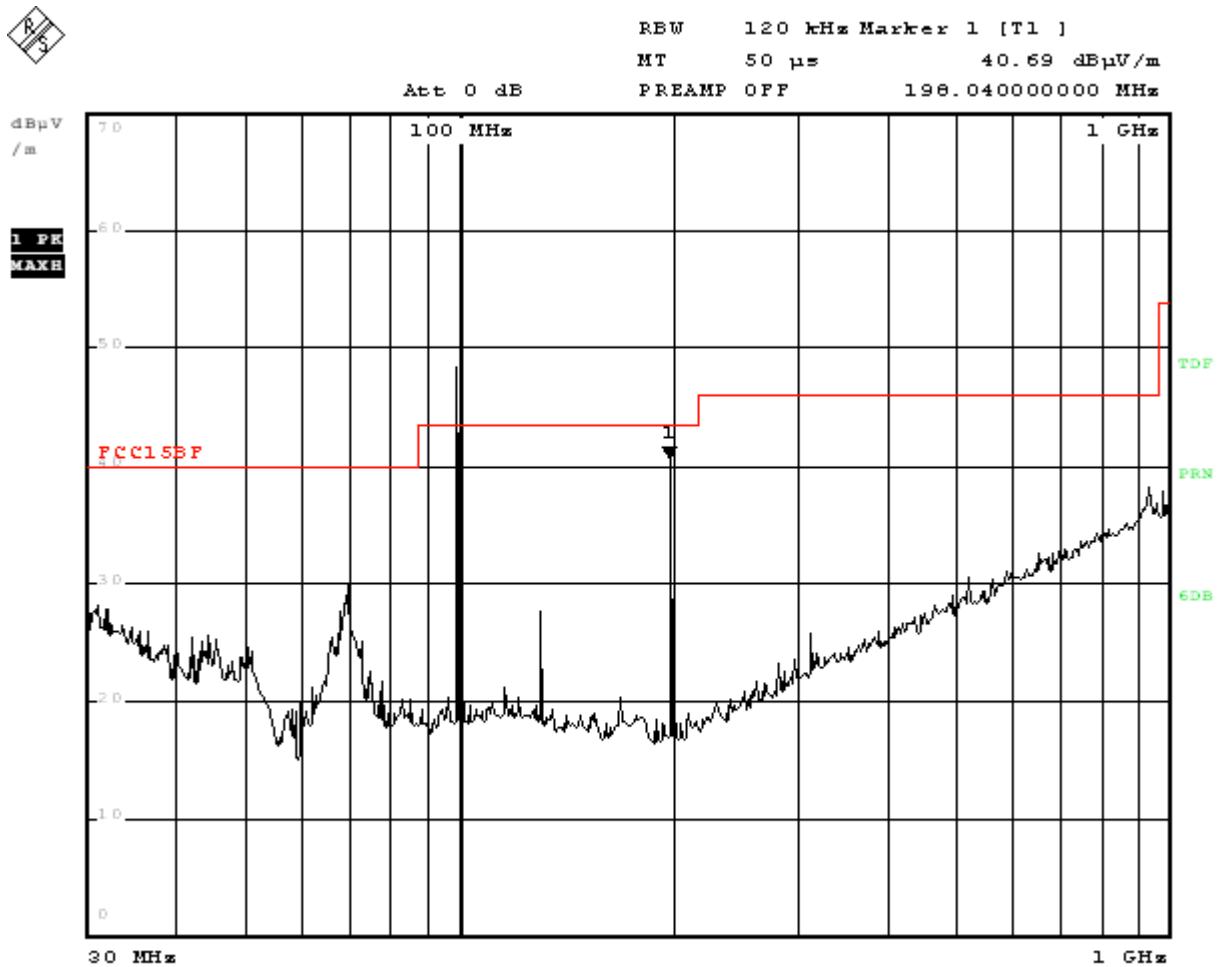
B2. **General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Vertical (30MHz----1000MHz)**

EUT set Condition: 99.0MHz

**Results: Pass**

Please refer to following diagram for individual



Date: 7 JUL 2008 19:50:52

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
198.04	41.00	V	43.50

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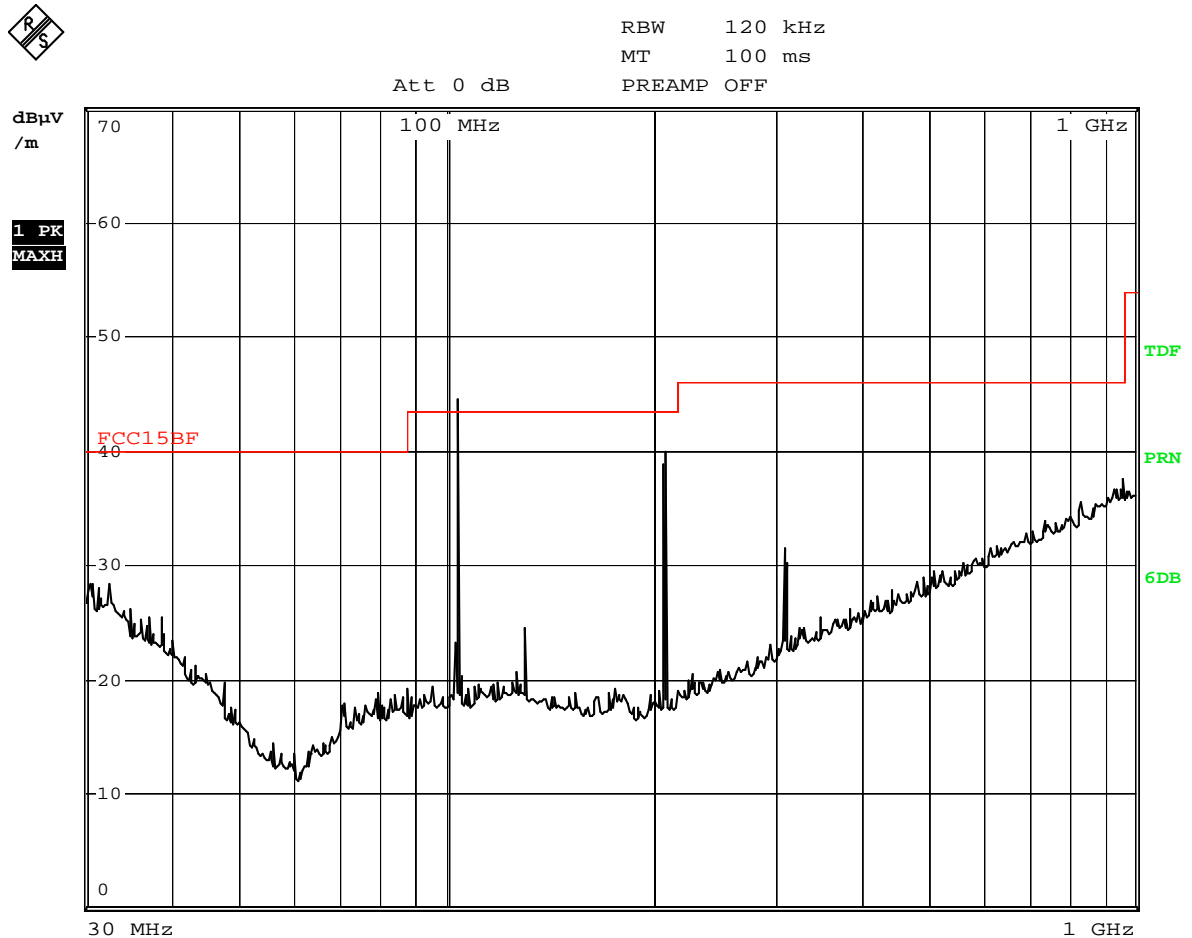
B3. **General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: 103.6MHz

**Results: Pass**

Please refer to following diagram for individual



Date: 7.JUL.2008 19:20:06

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
207.352	41.10	H	43.50

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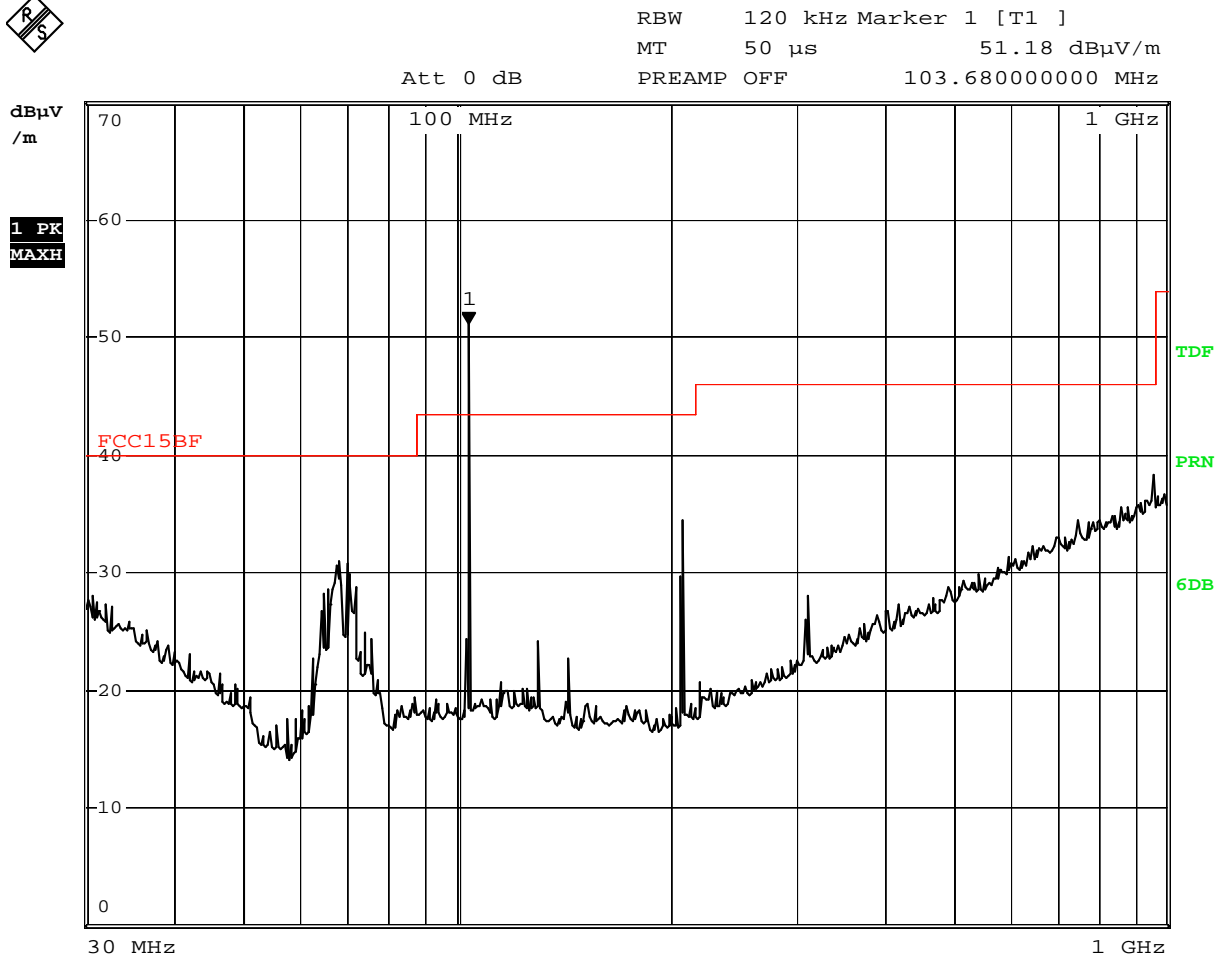
B4. **General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Vertical (30MHz----1000MHz)**

EUT set Condition: 103.6MHz

**Results: Pass**

Please refer to following diagram for individual



Date: 7.JUL.2008 19:29:28

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
207.36	39.87	V	43.50

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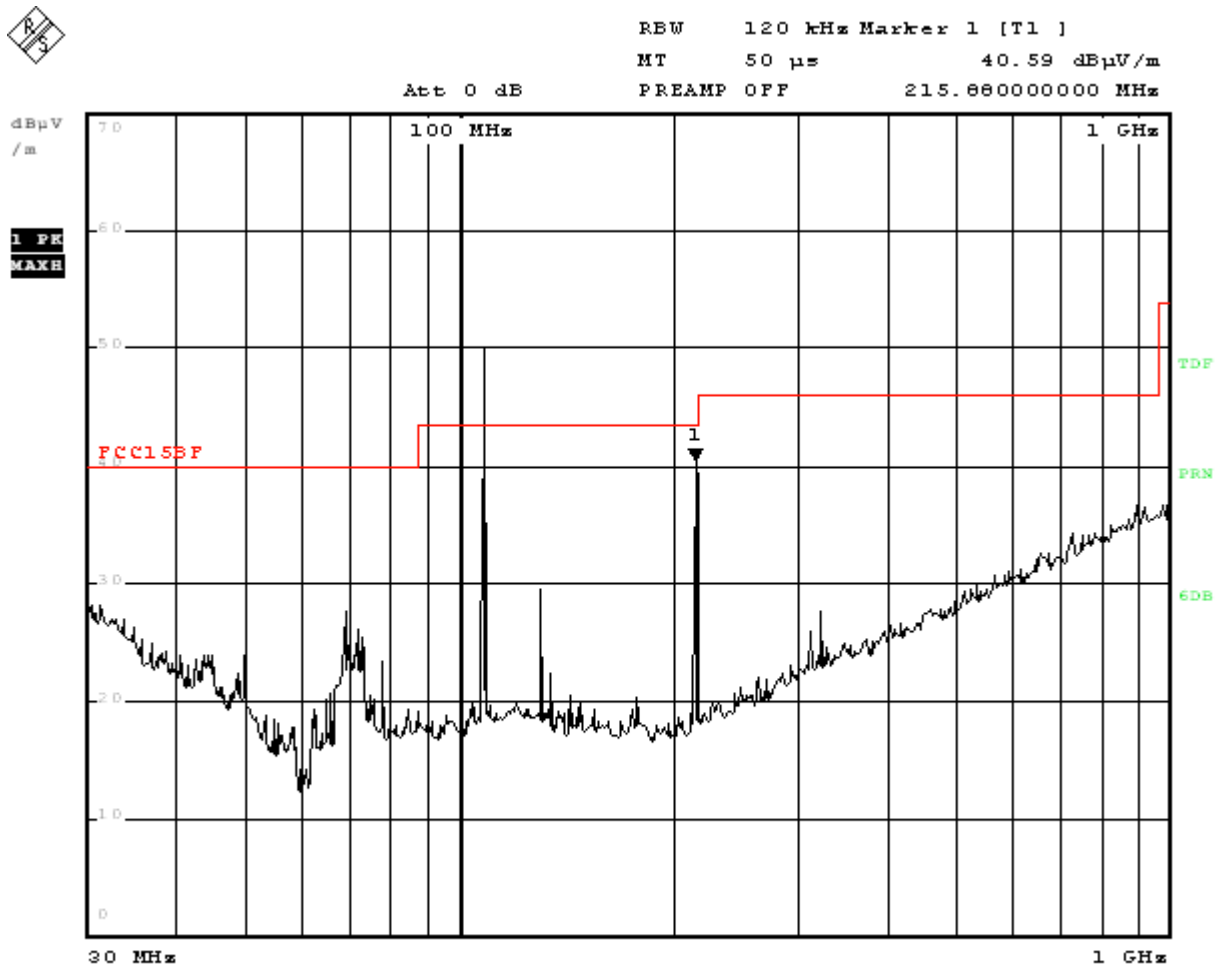
B5. **General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: 107.9MHz

**Results: Pass**

Please refer to following diagram for individual



Date: 7 JUL 2008 19:40:58

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
215.880	41.32	H	43.50

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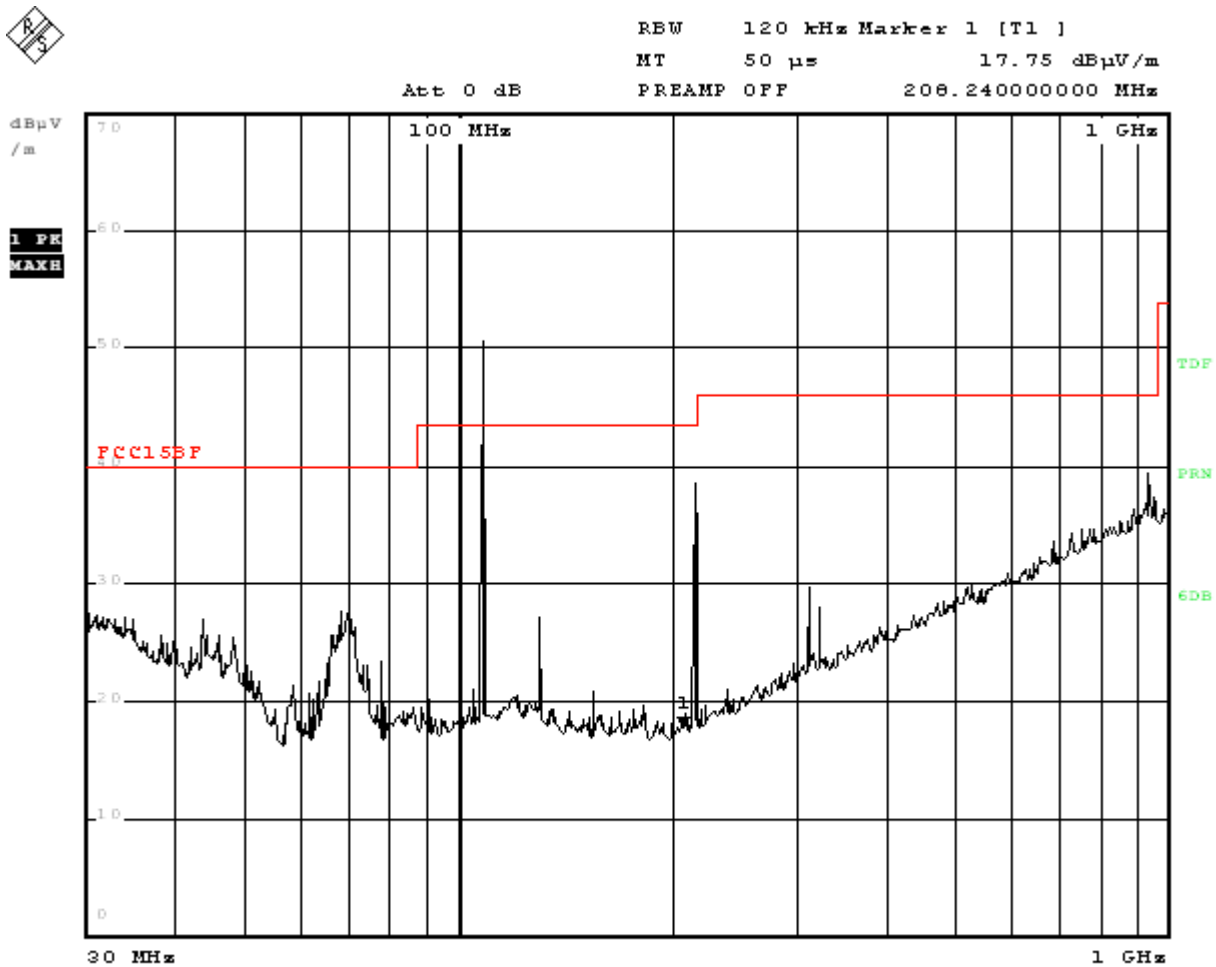
B6. **General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Vertical (30MHz----1000MHz)**

EUT set Condition: 107.9MHz

**Results: Pass**

Please refer to following diagram for individual



Date: 7 JUL 2008 19:35:04

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
215.880	38.21	V	43.50

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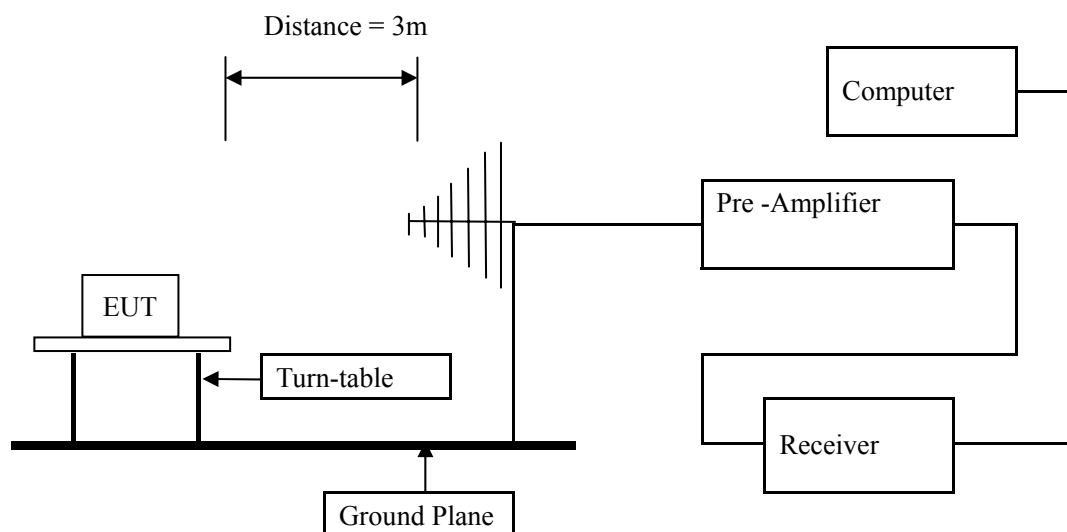


## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz , peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (5) The antenna polarization : Vertical polarization and Horizontal polarization.

### 7.2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

### 7.3 Configuration of The EUT

Same as section 5.3 of this report

### 7.4 EUT Operating Condition

Same as section 5.3 of this report.

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### 7.5 Band Edge Limit

- (1) 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.
- (2) The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter 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.
- (3) Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated Emission limits specified in Section 15.209(a) (see Section 15.205(c)).

#### EUT Operating Condition

Set the volume to the maximum on the EUT and play a song to produce a typical signal, but not a 1kHz signal

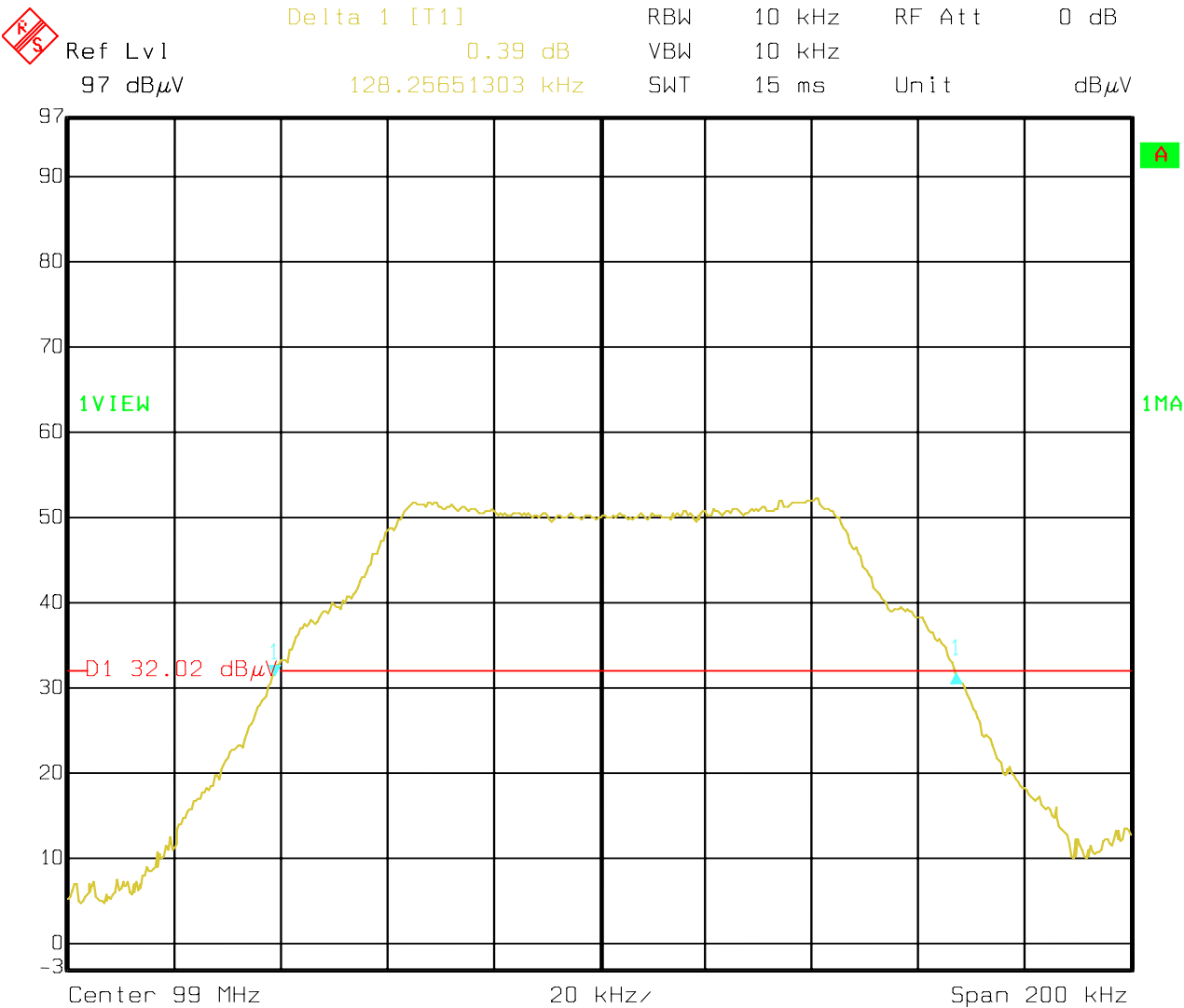


TEST REPORT

7.6 Band Edge Test Result

Product:	GPS	Test Mode:	99.0MHz
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	120V~	Humidity:	56%
Bandwidth	62kHz	Test Result:	Pass

Test Figure:



Date: 15.JUL.2008 18:58:40

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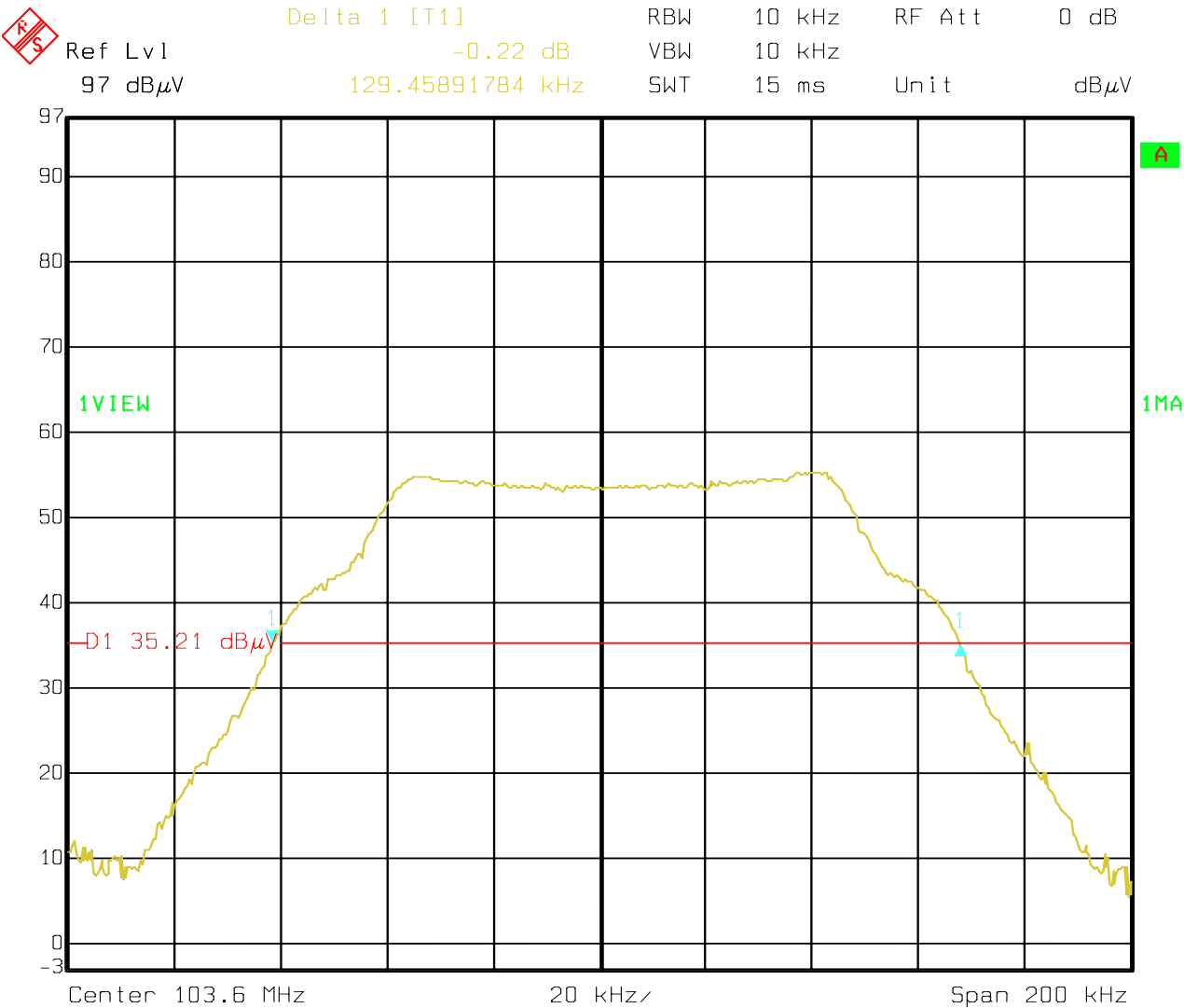


TEST REPORT

7.6 Band Edge Test Result

Product:	GPS	Test Mode:	103.6MHz
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	120V~	Humidity:	56%
Bandwidth	82kHz	Test Result:	Pass

Test Figure:



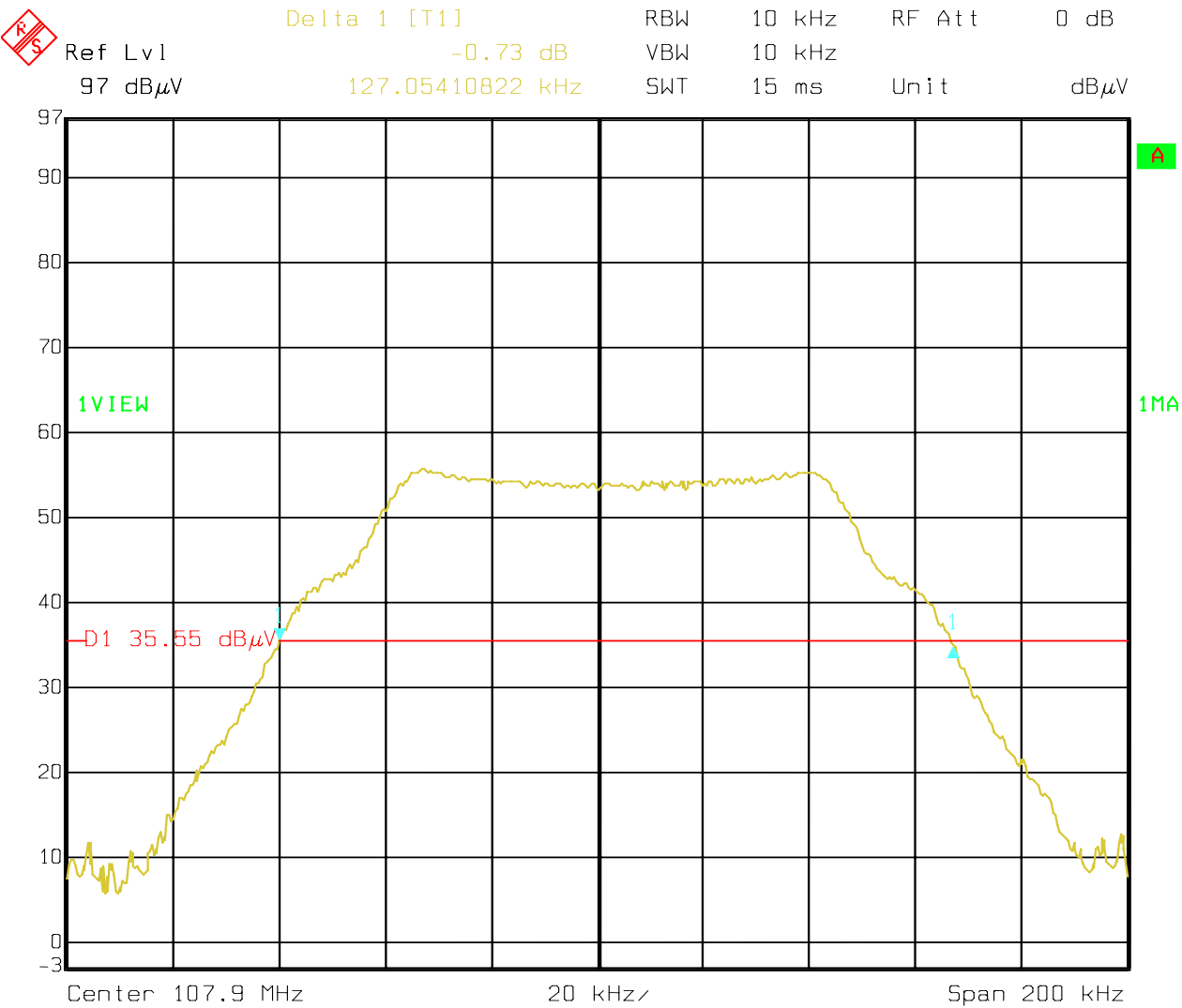
Date: 15.JUL.2008 19:02:49

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Product:	GPS	Test Mode:	107.9MHz
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	120V~	Humidity:	56%
Bandwidth	72kHz	Test Result:	Pass

Test Figure:



- Note:
- (1) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.
  - (2) The average measurement was not performed when the peak measured data under the limit of average detection.
  - (3) The Uncertainty of conducted emission= $\pm 20$ kHz

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## 8.0 FCC ID Label

**FCC ID: WJNK4**

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

### Mark Location:



FCC ID Label Location

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## 9.0 Photo of testing

9.1 Conducted test View—N/A

9.2 Radiated emission test view



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### 9.3 Photo for the EUT

Front View



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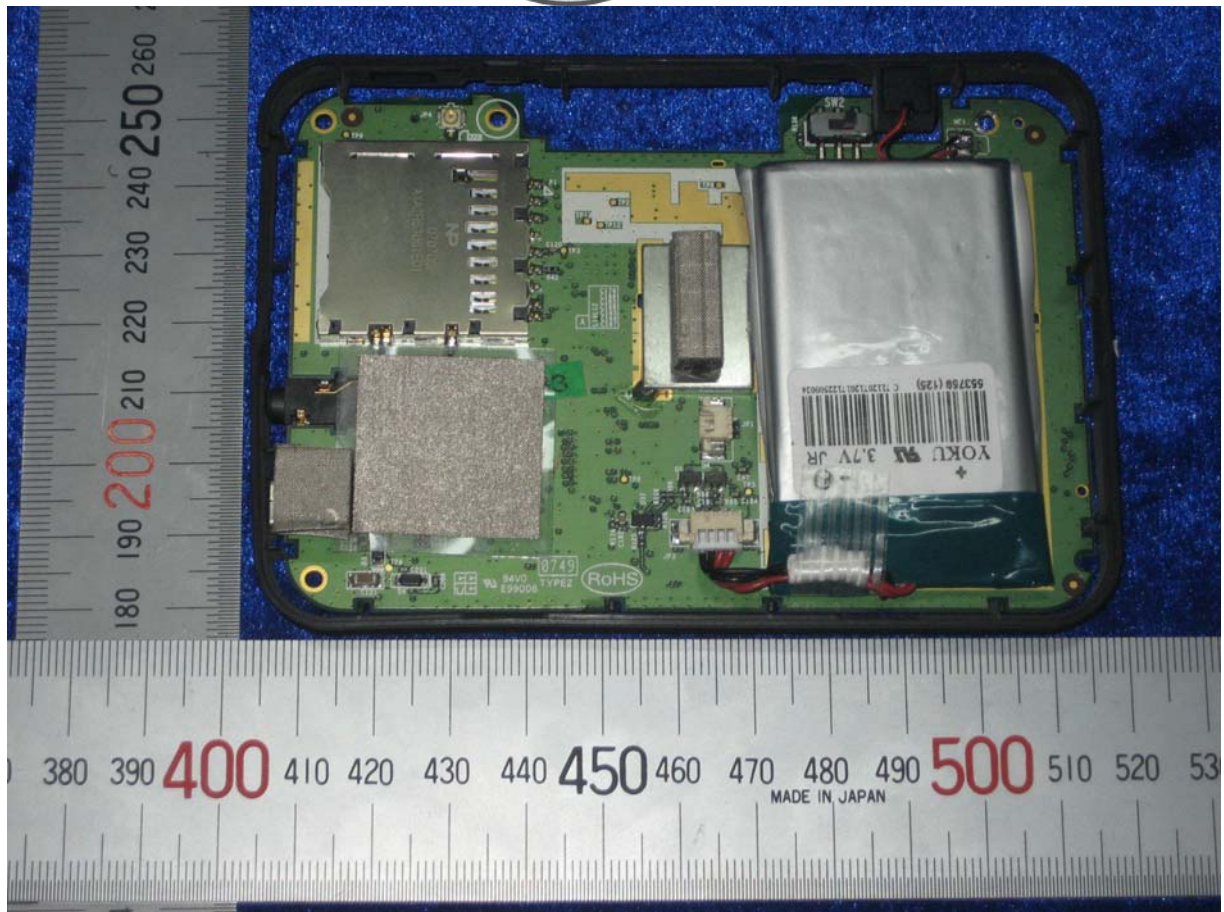
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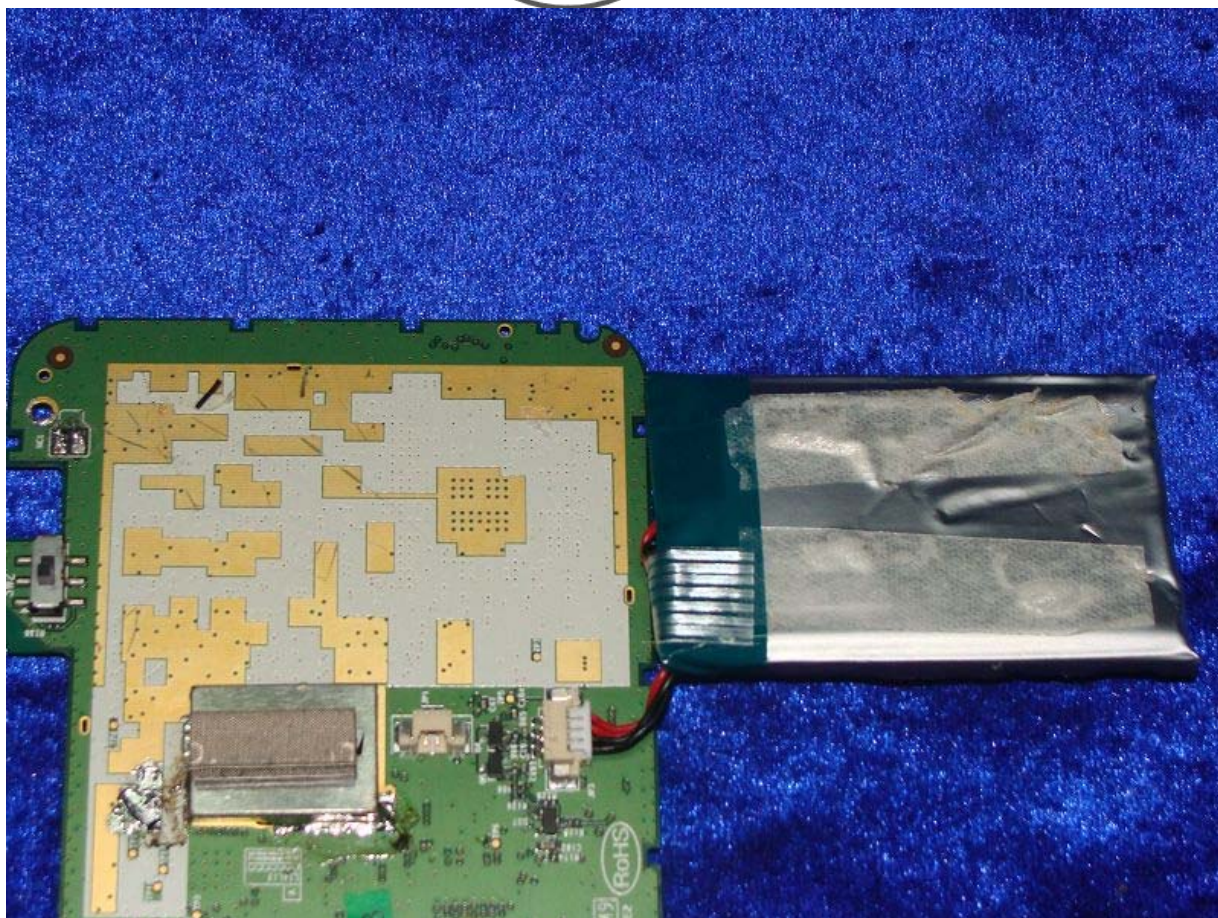


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