JAPAN QUALITY ASSURANCE ORGANIZATION
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EMI TEST REPORT

JQA File No.	: 400-60614
Model No.	: 631717*0
Type of Equipment	: RF Unit (incorporated with Bluetooth)
Regulations Applied	: CFR 47 FCC Rules and Regulations Part 15
FCC ID	: TR200000000001
Applicant	: Fujisoku Corporation
Address	: 1890, Kizukisumiyoshi-cho, Nakahara-ku, Kawasaki-Shi, Kanagawa-ken 211-0021, Japan
Manufacturer	: Fujisoku Corporation
Address	: 1890, Kizukisumiyoshi-cho, Nakahara-ku, Kawasaki-Shi, Kanagawa-ken 211-0021, Japan
Received date of EUT	: December 18, 2006
Test Result	**: Passed**

Test results in this report are obtained in use of equipment that is traceable to National Institute of Advanced Industrial Science and Technology (AIST) of Japan and National Institute of Information and Communications Technology (NICT) of Japan.

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1. DOCUMENTATION

1.1 TEST REGULATION

FCC Rules and Regulations Part 15 Subpart B and C Radiated Spurious Emissions

Test procedure :

The tests were performed with reference to the FCC Public Notice DA 00-705, released March 30, 2000. The test set-up was made in accordance to the general provisions of ANSI C63.4-2003.

1.2 GENERAL INFORMATION

1.2.1 Test facility :

JQA Safety & EMC Center EMC Engineering Department is recognized under ISO/IEC 17025 by NVLAP and VLAC.

1) Test Facility located at EMC Engineering Dept. Testing Div. :
   - No.A and B Anechoic Chambers(3 meters Site).
   - Shielded Enclosure.

   Open Area Test Site Industry Canada No.: 2079-7

2) EMC Engineering Dept. Testing Div. is accredited under the National Voluntary Laboratory accreditation Program for satisfactory compliance established in title 15, Part 285 Code of Federal Regulations.
   NVLAP Lab Code : 200189-0 (Effective through : June 30, 2007)

1.2.2 Description of the Equipment Under Test (EUT) :

1)	Type of Equipment	: RF Unit (incorporated with Bluetooth)
2)	Product Type	: Pre-production
3)	Category	: Spread Spectrum Transmitter(FHSS)
4)	EUT Authorization	: Certification
5)	FCC ID	: TR200000000001
6)	Trade Name	: Wireless Adaptor
7)	Model No.	: 631717*0
8)	Operating Frequency Range	: 2402 MHz - 2480 MHz
9)	Highest Frequency Used in the EUT	: 2480 MHz
10)	RF Output Power	: -2.73 dBm (measured value)
11)	Serial No.	: None
12)	Date of Manufacture	: None
13)	Power Rating	: 5.0 VDC
	The EUT was operated with the Interface Unit which was supplied 24.0 VDC.	
14)	EUT Grounding	: None
15)	Antenna Type	: Integral Internal antenna (not accessible to the user)
16)	Antenna Gain	: -0.1 dBi

1.2.3 Definitions for symbols used in this test report :

_x_ - indicates that the listed condition, standard or equipment is applicable for this report.

___ - indicates that the listed condition, standard or equipment is not applicable for this report.

1.3 TEST CONDITION

1.3.1 The measurement of Channel Separation

___ - was performed.
___ - was not applicable.
_x_ - was not tested.
(Because of only the power supply unit of the EUT# was changed by the manufacturer.
#: The original EUT was already approved as FCC ID: TR200000000001.
We decided that this modification is not effect to this measurement item.)

Used test instruments :

Type	Number of test instruments (Refer to Appendix)
Test Receiver	N/A
Spectrum Analyzer	N/A
Cable	N/A
Attenuator	N/A
Antenna	N/A

1.3.2 The measurement of Minimum Hopping Channel

___ - was performed.
___ - was not applicable.
_x_ - was not tested.
(Because of only the power supply unit of the EUT# was changed by the manufacturer.
#: The original EUT was already approved as FCC ID: TR200000000001.
We decided that this modification is not effect to this measurement item.)

Used test instruments :

Type	Number of test instruments (Refer to Appendix)
Test Receiver	N/A
Spectrum Analyzer	N/A
Cable	N/A
Attenuator	N/A
Antenna	N/A

1.3.3 The measurement of Occupied Bandwidth

___ - was performed.
___ - was not applicable.
_x_ - was not tested.
(Because of only the power supply unit of the EUT# was changed by the manufacturer.
#: The original EUT was already approved as FCC ID: TR200000000001.
We decided that this modification is not effect to this measurement item.)

Used test instruments :

Type	Number of test instruments (Refer to Appendix)
Test Receiver	N/A
Spectrum Analyzer	N/A
Cable	N/A
Attenuator	N/A
Antenna	N/A

1.3.4 The measurement of Dwell Time

___ - was performed.
___ - was not applicable.
_x_ - was not tested.
(Because of only the power supply unit of the EUT# was changed by the manufacturer.
#: The original EUT was already approved as FCC ID: TR200000000001.
We decided that this modification is not effect to this measurement item.)

Used test instruments :

Type	Number of test instruments (Refer to Appendix)
Test Receiver	N/A
Spectrum Analyzer	N/A
Cable	N/A
Attenuator	N/A
Antenna	N/A

1.3.5 The measurement of Peak Output Power and Density (Conduction)

_x_ - was performed.
___ - was not applicable.
___ - was not tested.

Used test instruments :

Type	**Number of test instruments (Refer to Appendix)**
Test Receiver	13
Spectrum Analyzer	N/A
Cable	48
Attenuator	80
Antenna	N/A
Digitizing Oscilloscope	163
RF Detector	85
Signal Generator	60

1.3.6 The measurement of Peak Output Power and Density (Radiation)

___ - was performed in the following test site.
_x_ - was not applicable.
___ - was not tested.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

___ - No. A site (3 meters)
___ - No. B site (3 meters)

Validation of Site Attenuation :

1) Last Confirmed Date : N/A
2) Interval : N/A

Used test instruments :

Type	Number of test instruments (Refer to Appendix)
Test Receiver	N/A
Spectrum Analyzer	N/A
Cable	N/A
Attenuator	N/A
Antenna	N/A
Power Meter	N/A
Power Sensor	N/A
Signal Generator	N/A

1.3.7 The measurement of Spurious Emissions (Conduction)

___ - was performed.
___ - was not applicable.
_x_ - was not tested.
(Because of only the power supply unit of the EUT# was changed by the manufacturer.
#: The original EUT was already approved as FCC ID: TR200000000001.
We decided that this modification is not effect to this measurement item.)

Used test instruments :

Type	Number of test instruments (Refer to Appendix)
Test Receiver	N/A
Spectrum Analyzer	N/A
Cable	N/A
Attenuator	N/A

1.3.8 The measurement of Spurious Emissions (Radiation)(9 kHz – 30 MHz)

_x_ - was performed in the following test site.
___ - was not applicable.
___ - was not tested.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

_x_ - Anechoic Chamber No. A (3 meters)
___ - Anechoic Chamber No. B (3 meters)

Validation of Site Attenuation :

1) Last Confirmed Date : N/A
2) Interval : N/A

Used test instruments :

Type	Number of test instruments (Refer to Appendix)
Test Receiver	13
Cable	43
Antenna	21

1.3.9 The measurement of Spurious Emissions (Radiation) (30 MHz – 1000 MHz)

_x_ - was performed in the following test site.
___ - was not applicable.
___ - was not tested.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

_x_ - Anechoic Chamber No. A (3 meters)
___ - Anechoic Chamber No. B (3 meters)

Validation of Site Attenuation :

1) Last Confirmed Date :March, 2006
2) Interval :1 year

Used test instruments :

Type	Number of test instruments (Refer to Appendix)
Test Receiver	11
Cable	38
Antenna	167, 168
RF Amplifier	N/A

1.3.10 The measurement of Spurious Emissions (Radiation) (Above 1000 MHz)

_x_ - was performed in the following test site.
___ - was not applicable.
___ - was not tested.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

_x_ - No. A site (3 meters)
___ - No. B site (3 meters)

Validation of Site Attenuation :

1) Last Confirmed Date :March, 2006
2) Interval :1 year

Used test instruments :

Type	Number of test instruments (Refer to Appendix)
Test Receiver	13
Spectrum Analyzer	N/A
Cable	48, 50
Antenna	31, 32
RF Amplifier	57
Band Reject Filter	78
High Pass Filter	79

1.3.11 The measurement of AC Power Line Conducted Emissions

___ - was performed in the following test site.
_x_ - was not applicable.
___ - was not tested.

Test location :

Safety & EMC Center EMC Engineering Dept. Testing Div.
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573, Japan

___ - Shielded Enclosure
___ - Anechoic Chamber No. A (portable Type)

Used test instruments :

Type	**Number of test instruments (Refer to Appendix)**
Test Receiver	N/A
Spectrum Analyzer	N/A
Cable	N/A
AMN(for EUT)	N/A
AMN(for Peripheral)	N/A
Termination	N/A

1.4 EUT MODIFICATION / Deviation from Standard

1.4.1 EUT MODIFICATION

_x_ - No modifications were conducted by JQA to achieve compliance to Class B levels.
___- To achieve compliance to Class B levels, the following changes were made by JQA during the compliance test.

The modifications will be implemented in all production models of this equipment.

Applicant :

Date :

Typed Name :

Position :

Signatory :

1.4.2 Deviation from Standard:

_x_ - No deviations from the standard described in clause 1.1.
___- The following deviations were employed from the standard described in clause 1.1:

1.5 TEST RESULTS

Channel Separation [§15.247(a)(1)]	___ - Applicable x - NOT Tested	___ - NOT Applicable
The requirements are	___ - PASSED	___ - NOT PASSED
Remarks :		
Minimum Hopping Channel [§15.247(a)(1)(iii)]	___ - Applicable x - NOT Tested	___ - NOT Applicable
The requirements are	___ - PASSED	___ - NOT PASSED
Remarks:		
Occupied Bandwidth [§15.247(a)(2)]	___ - Applicable x - NOT Tested	___ - NOT Applicable
The requirements are	___ - PASSED	___ - NOT PASSED
Remarks:		
Dwell Time [§15.247(a)(1)(iii)/(g)]	___ - Applicable x - NOT Tested	___ - NOT Applicable
The requirements are	___ - PASSED	___ - NOT PASSED
Remarks:		
Peak Output Power (Conduction) [§15.247(b)(3)]	x - Applicable ___ - NOT Tested	___ - NOT Applicable
The requirements are	x - PASSED	___ - NOT PASSED
Remarks:		
Peak Output Power (Radiation) [§15.247(b)(1)]	___ - Applicable ___ - NOT Tested	x - NOT Applicable
The requirements are	___ - PASSED	___ - NOT PASSED
Remarks:		
Peak Power Density (Conduction) [§15.247(d)]	x - Applicable ___ - NOT Tested	___ - NOT Applicable
The requirements are	x - PASSED	___ - NOT PASSED
Remarks:		
Peak Power Density (Radiation) [§15.247(d)]	___ - Applicable ___ - NOT Tested	x - NOT Applicable
The requirements are	___ - PASSED	___ - NOT PASSED
Remarks:		

Spurious Emissions (Conduction)	___ - Applicable	___ - NOT performed
[§15.247(c)]	x - NOT Tested	
The requirements are	___ - PASSED	___ - NOT PASSED
Remarks:		

Spurious Emissions (Radiation)	x - Applicable	___ - NOT Applicable
[§15.247(c), §15.35(b), §15.209(a)]	___ - NOT Tested	
The requirements are	x - PASSED	___ - NOT PASSED
Remarks:		

AC Power Line Conducted Emissions	___ - Applicable	x - NOT Applicable
[§15.207(a)]	___ - NOT Tested	
The requirements are	___ - PASSED	___ - NOT PASSED
Remarks:		

RF Exposure Compliance	___ - Applicable	x - NOT Applicable
[§15.247(b)(5)]	___ - NOT Tested	
The requirements are	___ - PASSED	___ - NOT PASSED
Remarks:		

Spurious Emissions for Receiver	x - Applicable	___ - NOT Applicable
(Radiation)[§15.109(a)]	___ - NOT Tested	
The requirements are	x - PASSED	___ - NOT PASSED
Remarks:		

AC Power Line Conducted Emissions	___ - Applicable	x - NOT Applicable
for Receiver [§15.107(a)]	___ - NOT Tested	
The requirements are	___ - PASSED	___ - NOT PASSED
Remarks:		

1.6 SUMMARY

General Remarks :

The EUT was tested according to the requirements of FCC Rules and Regulations Part 15 Subpart B, Subpart under the test configuration, as shown in clause 1.7 to 1.10. The conclusion for the test items which are required by the applied regulation is indicated under the test result.

Test Result :

The "as received" sample;

___ - fulfill the test requirements of the regulation mentioned on clause 1.1.

_x_ - fulfill the test requirements of the regulation mentioned on clause 1.1, but with certain qualifications.

___ - doesn't fulfill the test regulation mentioned on clause 1.1.

Begin of testing : December 18, 2006

End of testing : December 19, 2006

- JAPAN QUALITY ASSURANCE ORGANIZATION -

Approved by:

Takaharu Hada
Manager
Testing Division
JQA EMC Engineering Dept.

Issued by:

Shigeru Osawa
Assistant Manager
Testing Division
JQA EMC Engineering Dept.

1.7 TEST CONFIGURATION / OPERATION OF EUT

1.7.1 Test Configuration

The equipment under test (EUT) consists of :

Symbol	Item	Manufacturer	Model No.	FCC ID	Serial No.
A(*1)	RF Unit	Fujisoku Corporation	631717*0	TR200000000001	None

(*1) The EUT was also operated with the Interface Unit and DC power supply.

The measurement was carried out with the following support equipment connected :

Symbol	Item	Manufacturer	Model No.	FCC ID	Serial No.
B	Interface Unit	-	-	N/A	None

Type of Cable :

Symbol	Description	Identification (Manufacturer etc.)	Connector Shielded YES / NO	Cable Shielded YES / NO	Ferrite Core	Length (m)
1	DC Cable (for EUT)	-	NO	NO	NO	0.20
2	Signal Cable (for EUT)	-	NO	NO	NO	0.26
3	DC Cable (for Interface Unit)	-	NO	NO	NO	1.55

1.7.2 Operating condition

Power supply Voltage : 24.0VDC operate with the DC power supply

The tests have been carried out the following mode.

1) TX mode (0ch: 2402 MHz)
2) TX mode (39ch: 2441 MHz)
3) TX mode (78ch: 2480 MHz)
4) RX mode

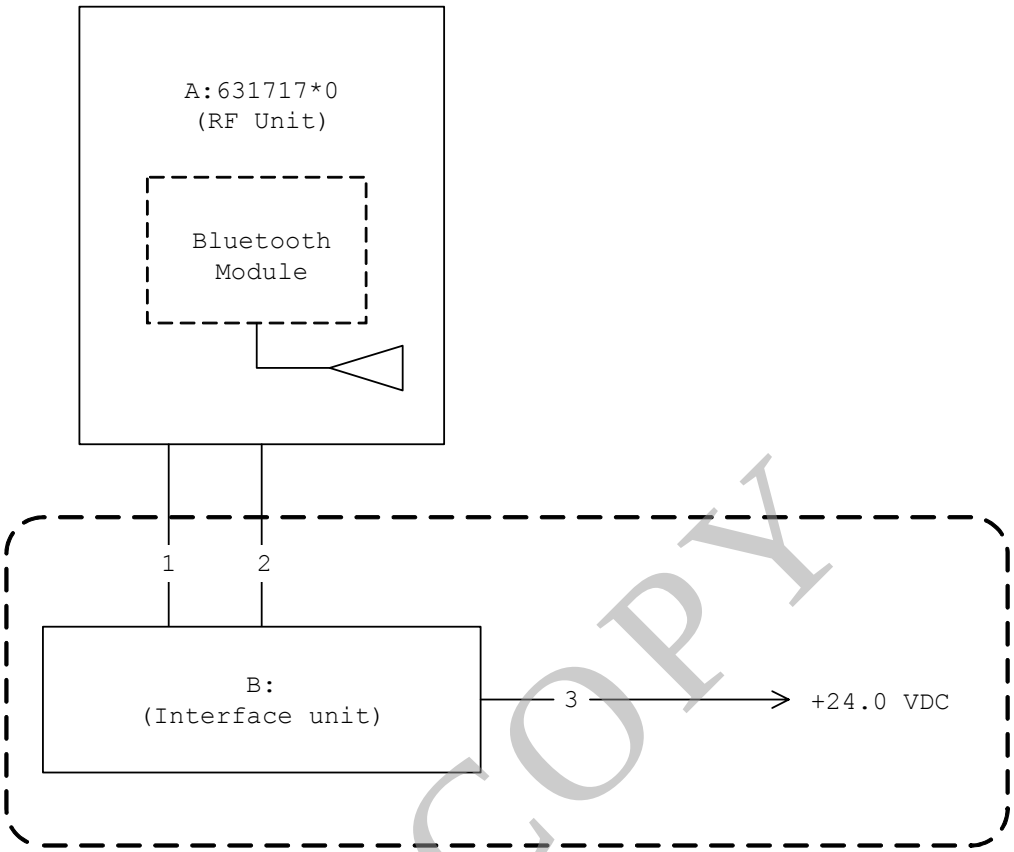
Used application to controlled and support equipment:
CSR Blue Test (File Version 1.20.0.0)
(The detail is as follows. Other setting is default position.)
Transport type : H4
Serial port : com2
Baud rate : 115200
Frequency : 2402, 2441 and 2480 MHz
Power set of TX mode : 50

1.7.3 Generating and Operating frequency of EUT

16 MHz and 2402 MHz to 2480 MHz

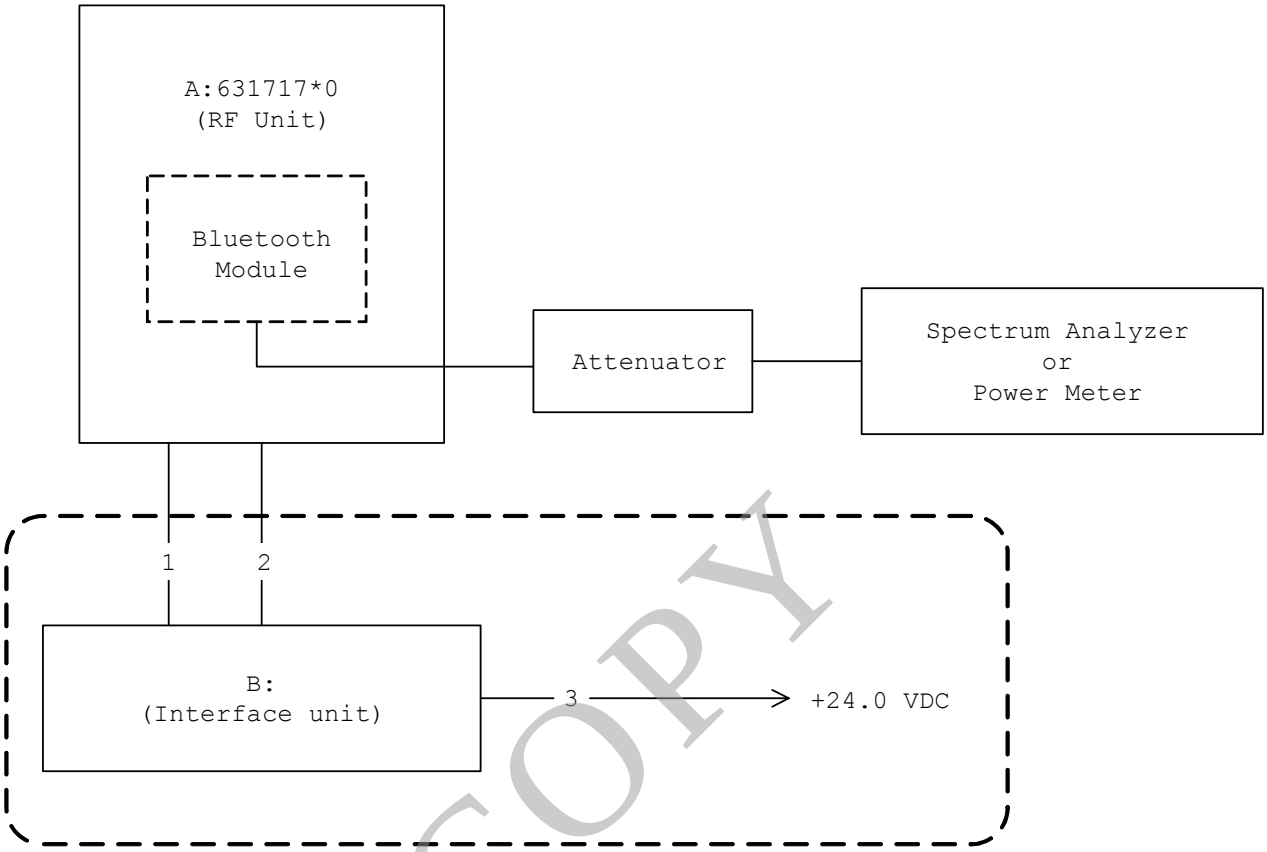
1.8 EUT ARRANGEMENT (DRAWINGS)

1.8.1 Radiated Test



*) These support equipment were temporary that achieved the test mode.

1.8.2 Conducted test at the port

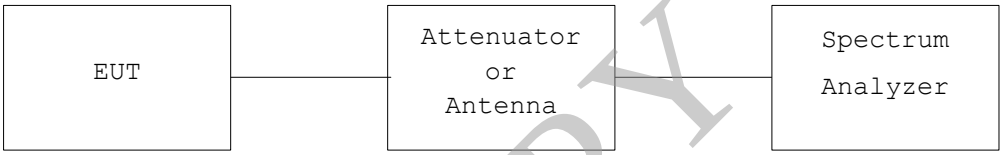


*) These support equipment were temporary that achieved the test mode.

1.9 PRELIMINARY TEST AND TEST-SETUP (DRAWINGS)

1.9.1 Channel Separation

The EUT have its hopping function enabled.
Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels
Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span
Video (or Average) Bandwidth (VBW) ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold
Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.



1.9.2 Minimum Hopping Channel

The EUT have its hopping function enabled.
Use the following spectrum analyzer settings:
Span = the frequency band of operation
RBW ≥ 1% of the span
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold
Allow the trace to stabilize. It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies.
Measurement setup is same as sub-clause 1.9.1.

1.9.3 Occupied Bandwidth

Use the following spectrum analyzer settings:
Span = approximately 2 to 3 times the 6 dB or 20 dB bandwidth, centered on a channel
RBW ≥ 1% of the 6 dB or 20 dB bandwidth
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold
The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 6 dB or 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 6 dB or 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.
Measurement setup is same as sub-clause 1.9.1.

1.9.4 Dwell Time

The EUT must have its hopping function enabled.
Use the following spectrum analyzer settings:
Span = zero span, centered on a hopping channel
RBW ≤ Channel Separation
VBW ≥ RBW
Sweep = as necessary to capture the entire dwell time per hopping channel
Detector function = peak
Trace = max hold
If possible, use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.
Measurement setup is same as sub-clause 1.9.1.

1.9.5 Peak Output Power (Conduction)

In case of conducted measurements, the transmitter shall be connected to the measuring equipment via a suitable attenuator. The measurement shall be performed using normal operation of the equipment with the test modulation applied.

The test procedure shall be as follows;

(step 1):

- using a suitable means, the output of the transmitter shall be coupled to a diode detector;
- the output of the diode detector shall be connected to the vertical channel of an oscilloscope;
- the combination of the diode detector and the oscilloscope shall be capable of faithfully reproducing the envelope peaks and the duty cycle of the transmitter output signal;
- The observed value shall be recorded as "A" (in dBm);

(step 2):

- the transmitter shall be replaced by a signal generator. The output frequency of the signal shall be made equal to the centre of the frequency range occupied by the transmitter;
- the signal generator shall be unmodulated. The output power of the signal generator shall be raised to a level such that the deviation of the Y-trace of the oscilloscope reaches level A, as indicated in step 1;
- The signal generator output level shall be recorded;

The measurement shall be repeated at the lowest, the middle, and the highest frequency of the stated frequency range.

1.9.6 Peak Power Density (Conduction)

Use the following spectrum analyzer settings:
Span = approximately 5 times the 20 dB bandwidth, centered on a channel
RBW = Specified Value
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold
Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
Measurement setup is same as sub-clause 1.9.1.

1.9.7 Peak Output Power and Peak Power Density (Radiation)

The radiated power output and the field strength of the transmitter radiation were measured at the distance at 3 meters away from the transmitter under test which was placed on a turntable 0.8 meter in height. The receiving antenna was oriented for vertical polarization and raised or lowered through 1 to 4 meters until the maximum signal level was detected on the measuring instrument. The transmitter under test was rotated through 360° until the maximum signal was received. The measurement was repeated with the receiving antenna in the horizontal polarization.

The transmitter was removed and replaced with the antenna. The center of the antenna was placed approximately at the same location as the center of the transmitter. The antenna was fed with a signal generator, and the output level of the signal generator was adjusted to obtain the previously recorded maximum reading at the particular frequency and recorded. This procedure was repeated with the receiving antenna and the antenna in the orthogonal polarization.

The input power into the antenna was measured using the power meter. The level of the emissions in dBm(EIRP) were calculated from the following formula:

Transmitter Power[dBm](EIRP)= (Meter Reading of Power Meter) + (Antenna Gain[dBi])

Use the following spectrum analyzer settings:
Span = approximately 5 times the 20 dB bandwidth, centered on a channel
RBW : Greater then the 20 dB bandwidth of the emission being measured
or Specified Value
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold
Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.

1.9.8 Spurious Emission (Conduction)

Band-edge Compliance of RF Conducted Emissions

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation

RBW ≥ 1% of the span

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission.

Now, using the same instrument settings, enable the hopping function of the EUT. Allow the trace to stabilize. Follow the same procedure listed above to determine if any spurious emissions caused by the hopping function also comply with the specified limit.

Spurious RF Conducted Emissions

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

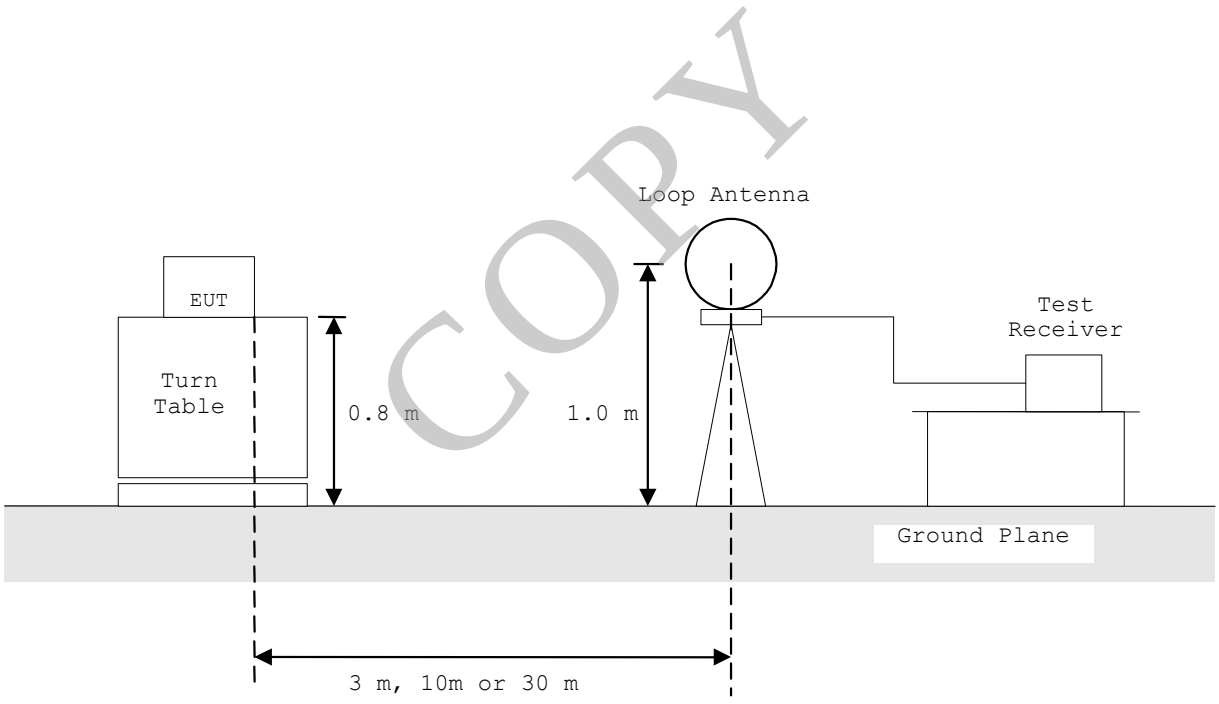
Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.

Measurement setup is same as sub-clause 1.9.1.

1.9.9 Radiated Emission (9 kHz – 30 MHz) :

According to description of ANSI C63.4-2003 sec.13.1.4, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.
The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

- Side View -

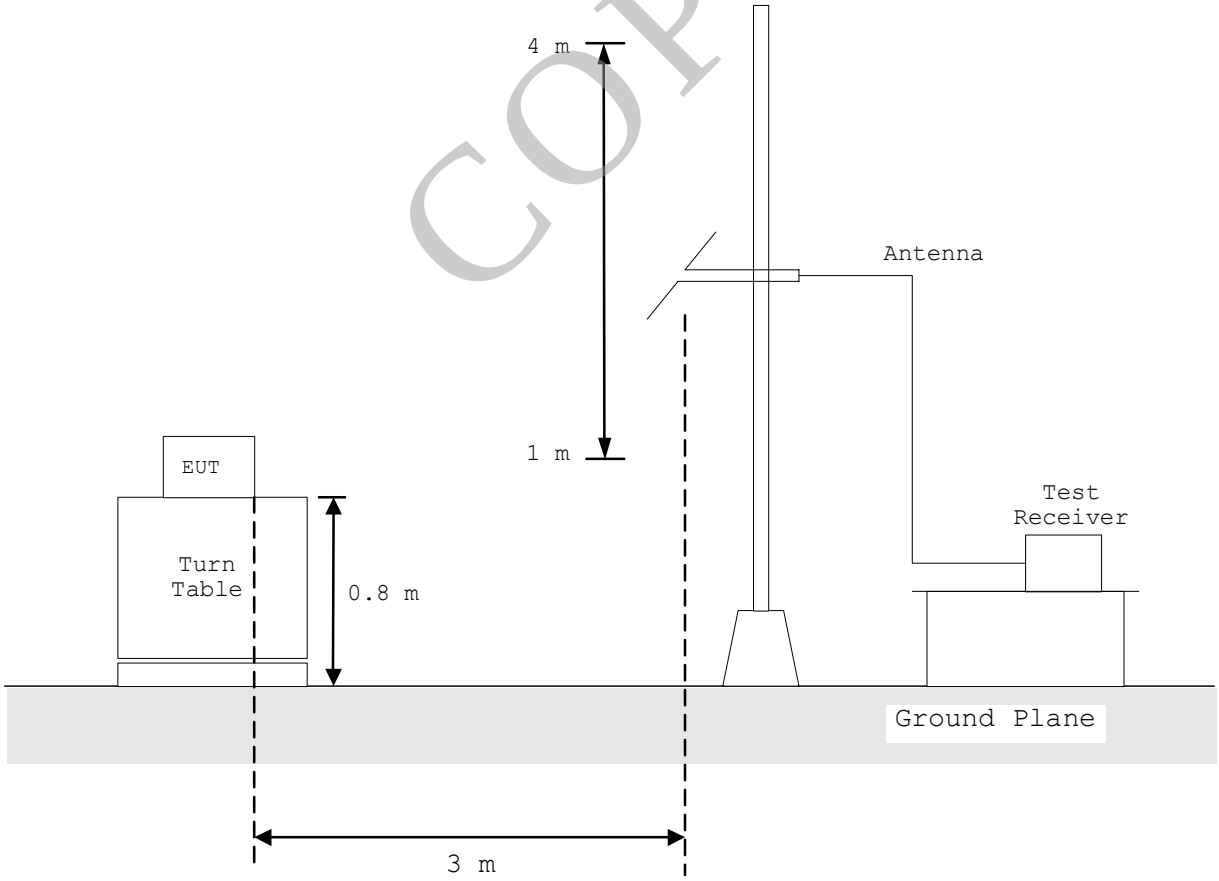


1.9.10 Radiated Emission (30 MHz – 1000 MHz) :

According to description of ANSI C63.4-2003 sec.13.1.4, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.
The EUT configuration (in X, Y and Z axis), cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

Anechoic Chamber

- Side View -

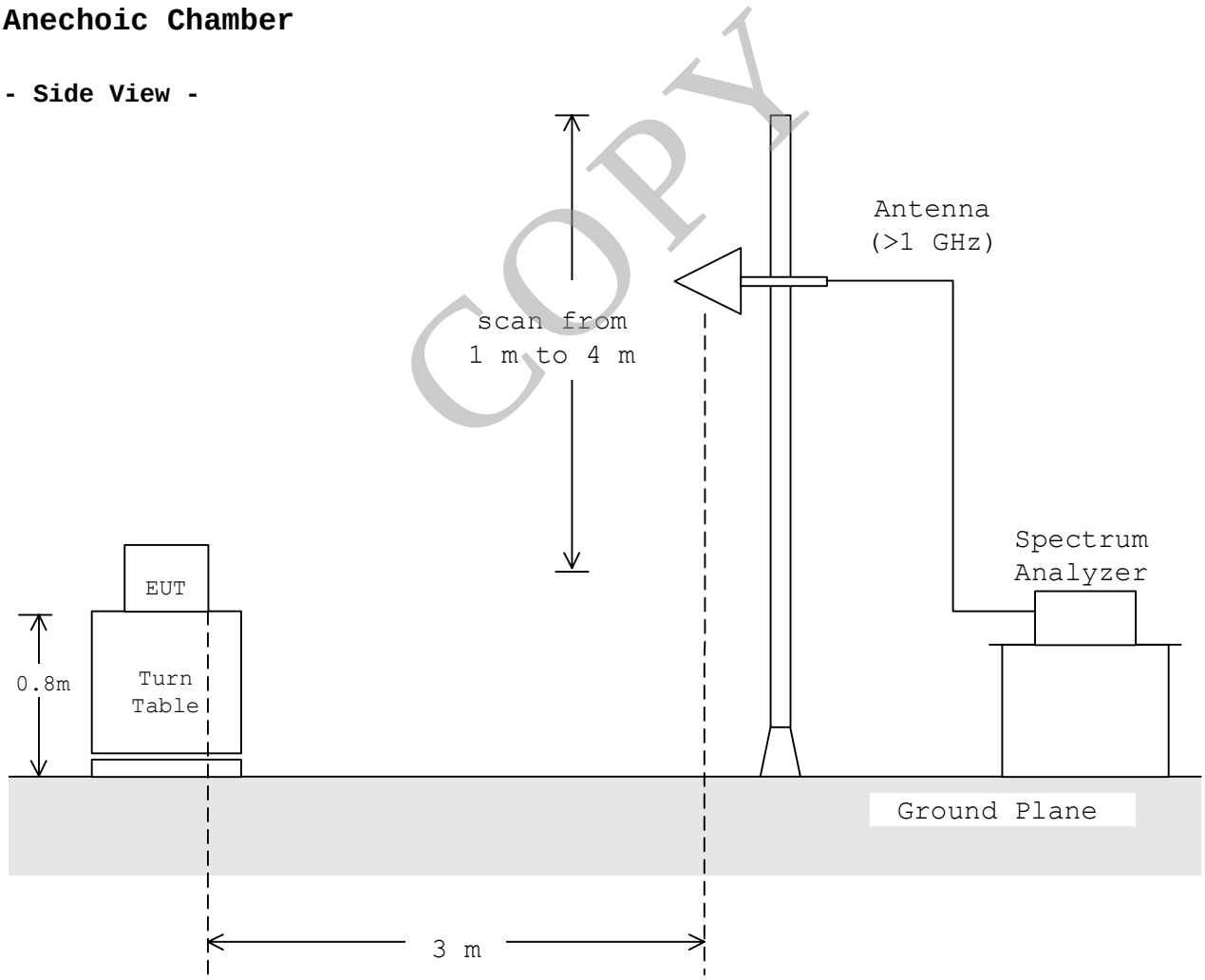


1.9.11 Radiated Emission (Above 1 GHz) :

According to description of ANSI C63.4-2003 sec.13.1.4, the preliminary radiated emissions measurements were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.
The EUT configuration (in X, Y and Z axis), cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements.

Anechoic Chamber

- Side View -

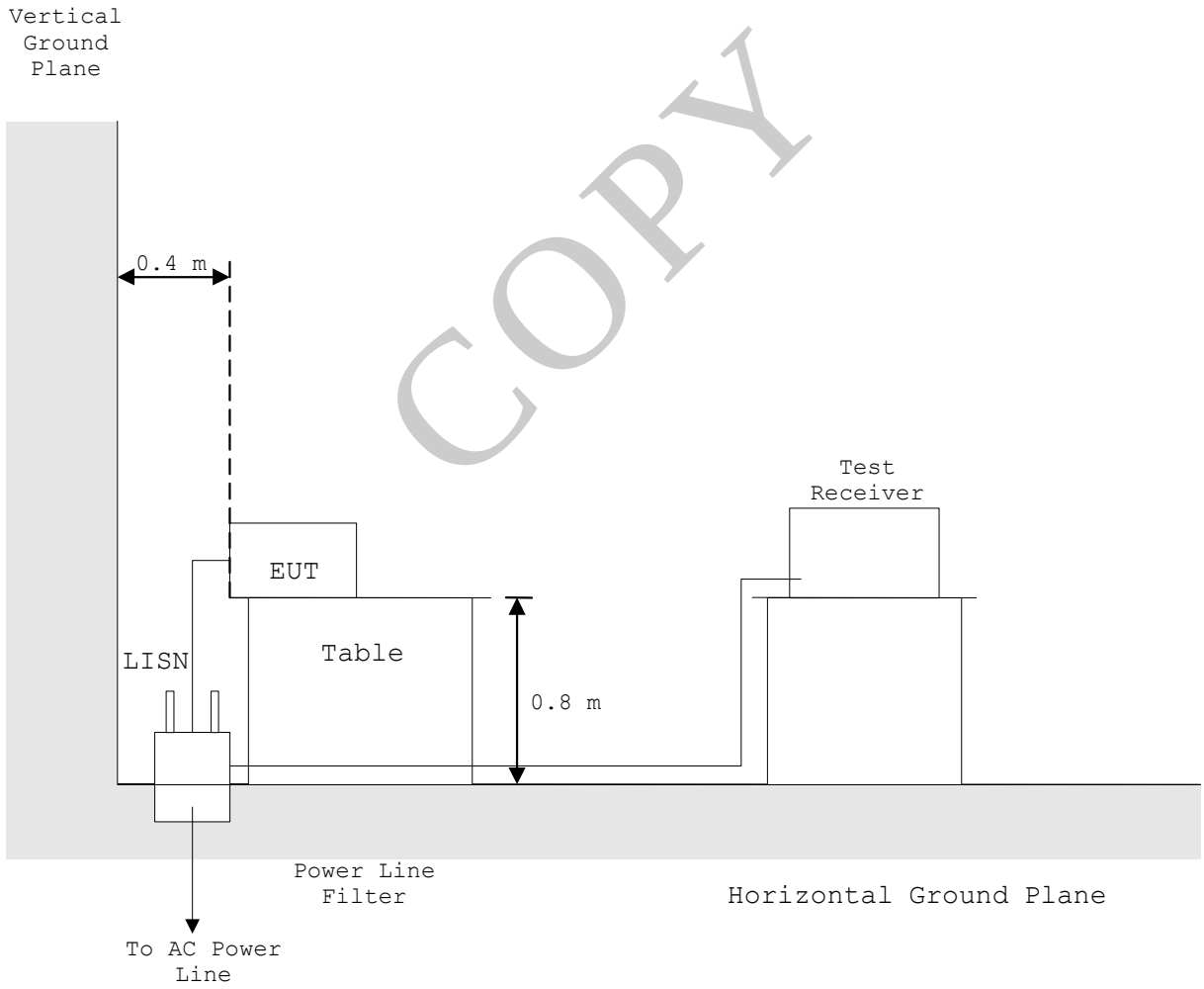


1.9.12 AC Power Line Conducted Emission (150 kHz – 30 MHz) :

According to description of ANSI C63.4-2003 sec.13.1.3, the AC power line preliminary conducted emissions measurements were carried out.
The preliminary conducted measurements were performed using the spectrum analyzer to observe the emission characteristics of the EUT.
The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for final AC power line conducted emissions measurements.

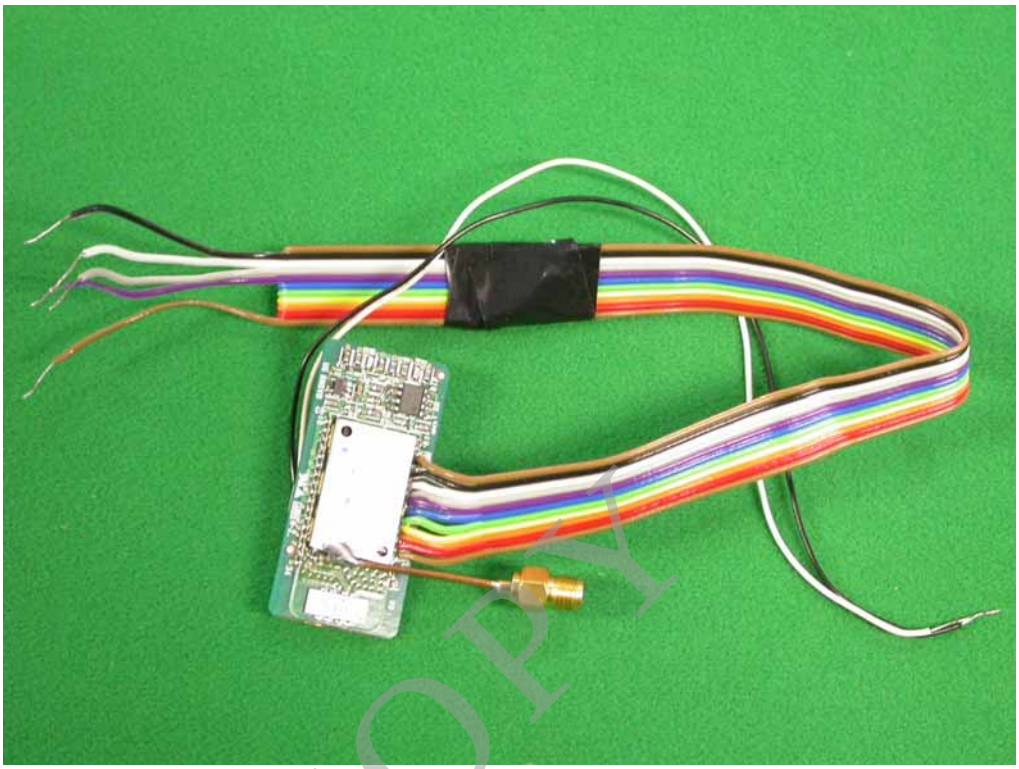
Shielded Enclosure

- Side View -



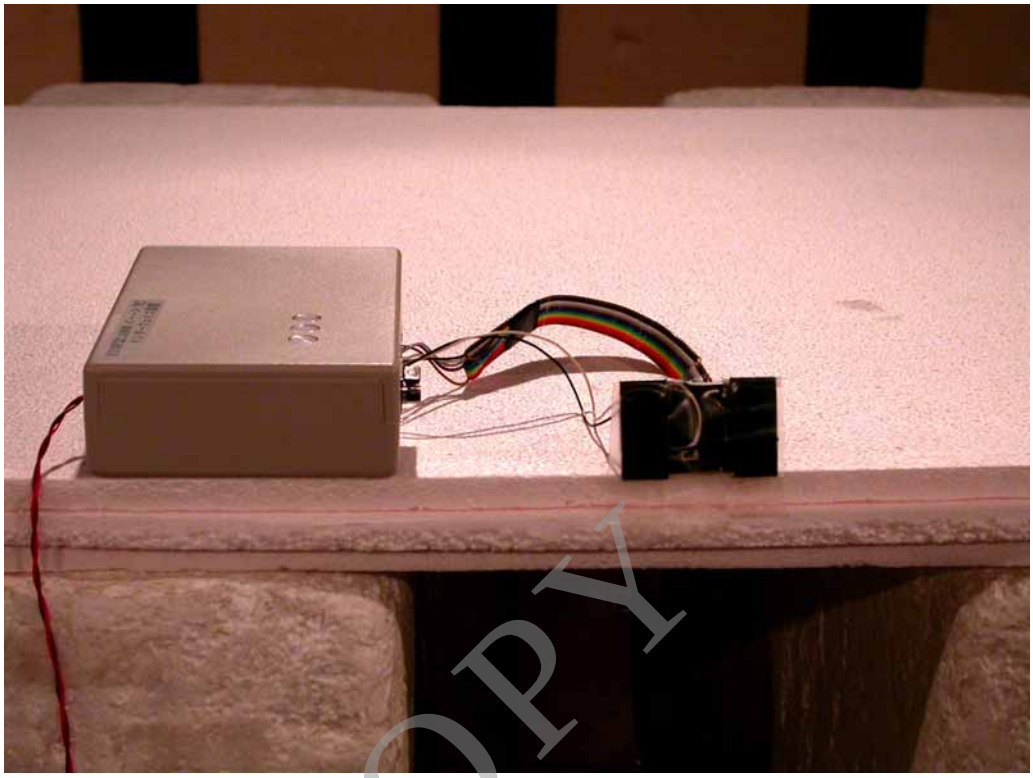
1.10 TEST ARRANGEMENT (PHOTOGRAPHS)

PHOTOGRAPHS OF THE CONDUCTED TEST

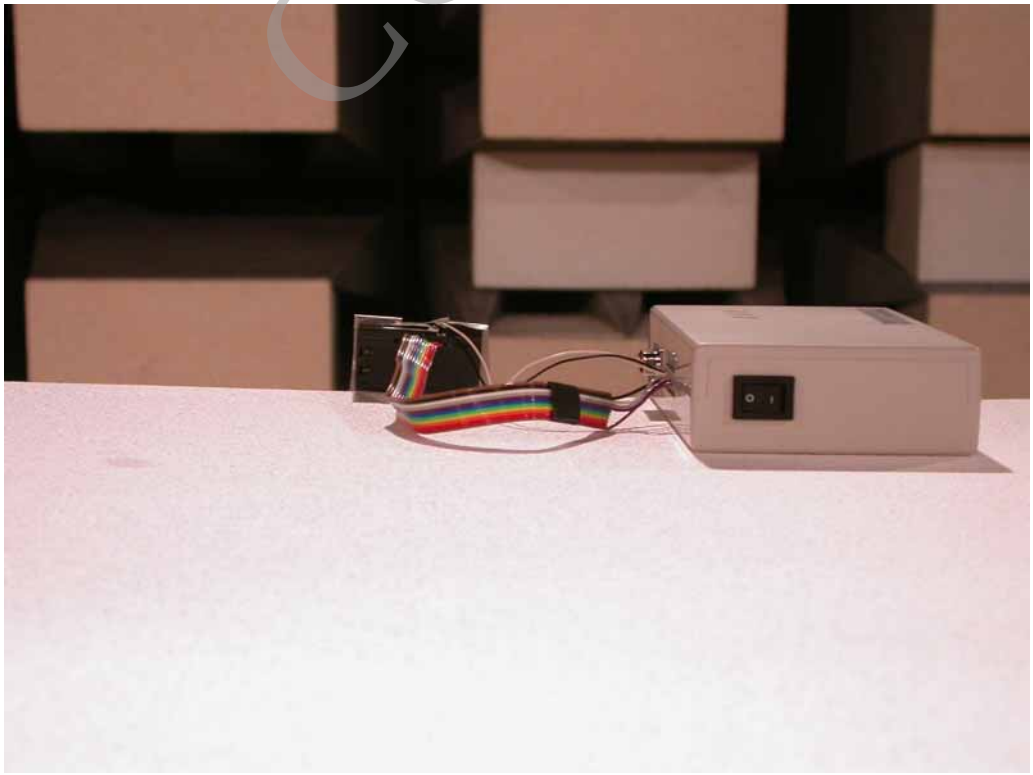


PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT

Photograph present configuration with maximum emission



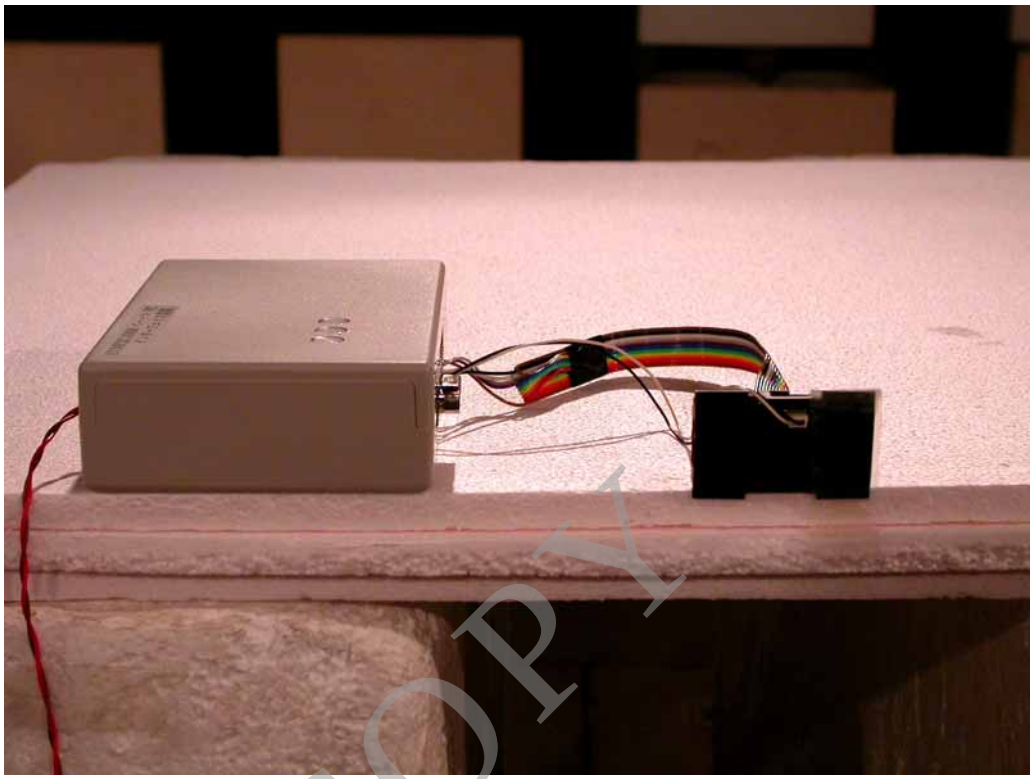
- X1 axis(Front) -



- X1 axis(Rear) -

PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT

Photograph present configuration with maximum emission

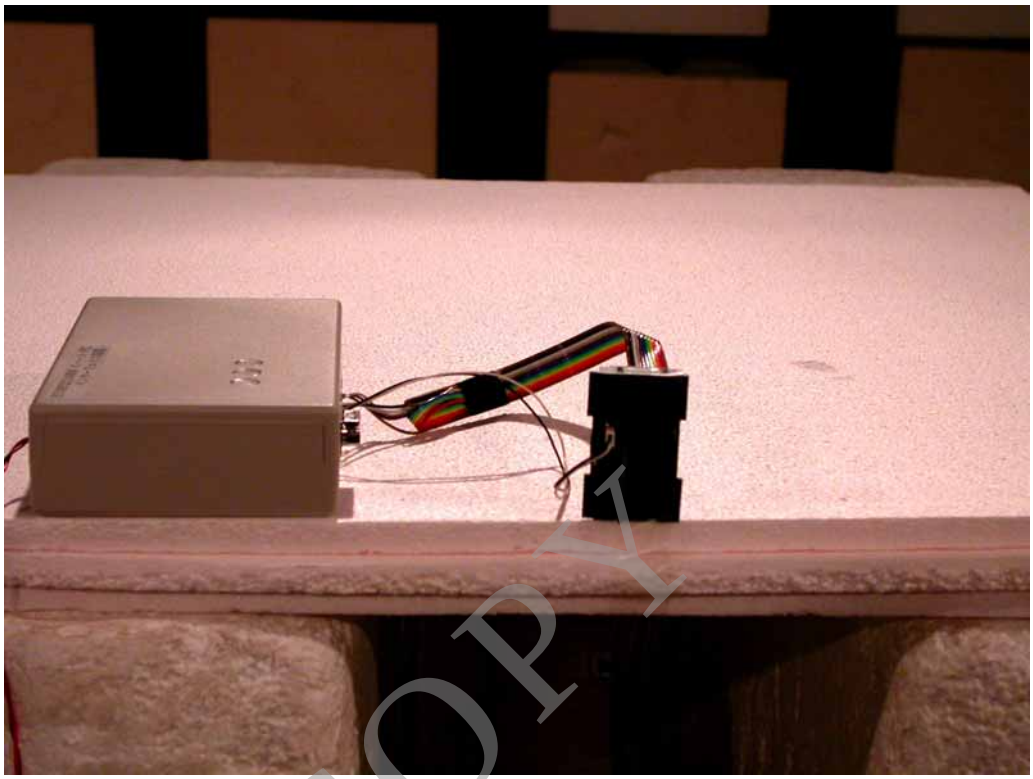


- X2 axis(Front) -

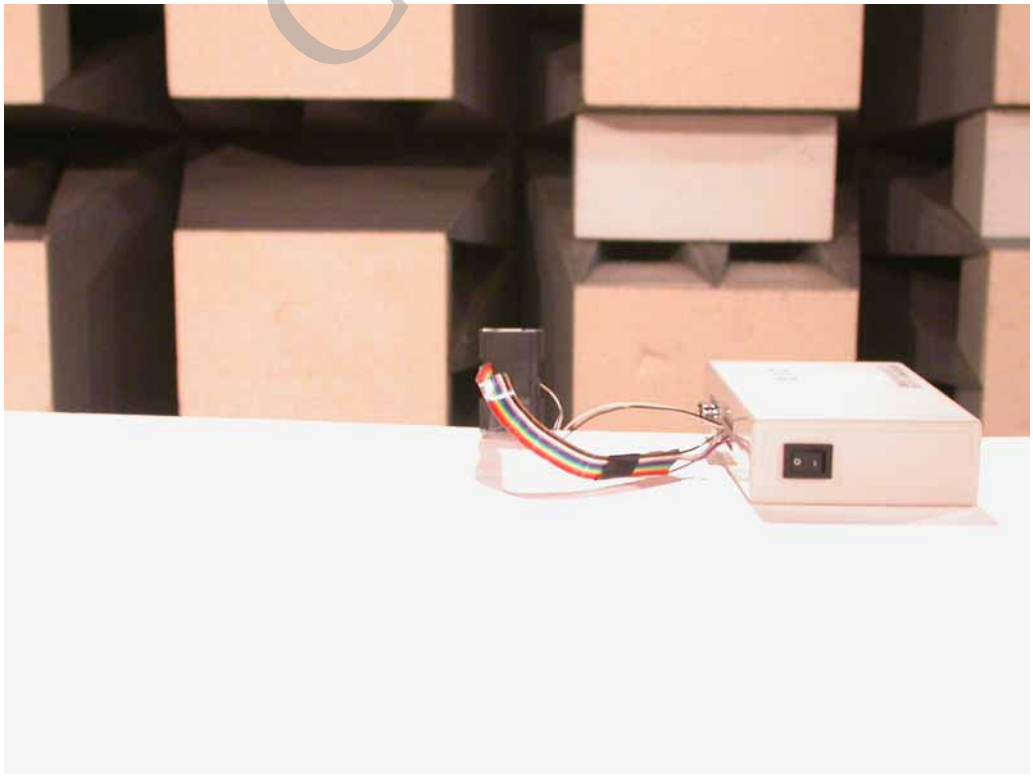
- X2 axis(Rear) -

PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT

Photograph present configuration with maximum emission



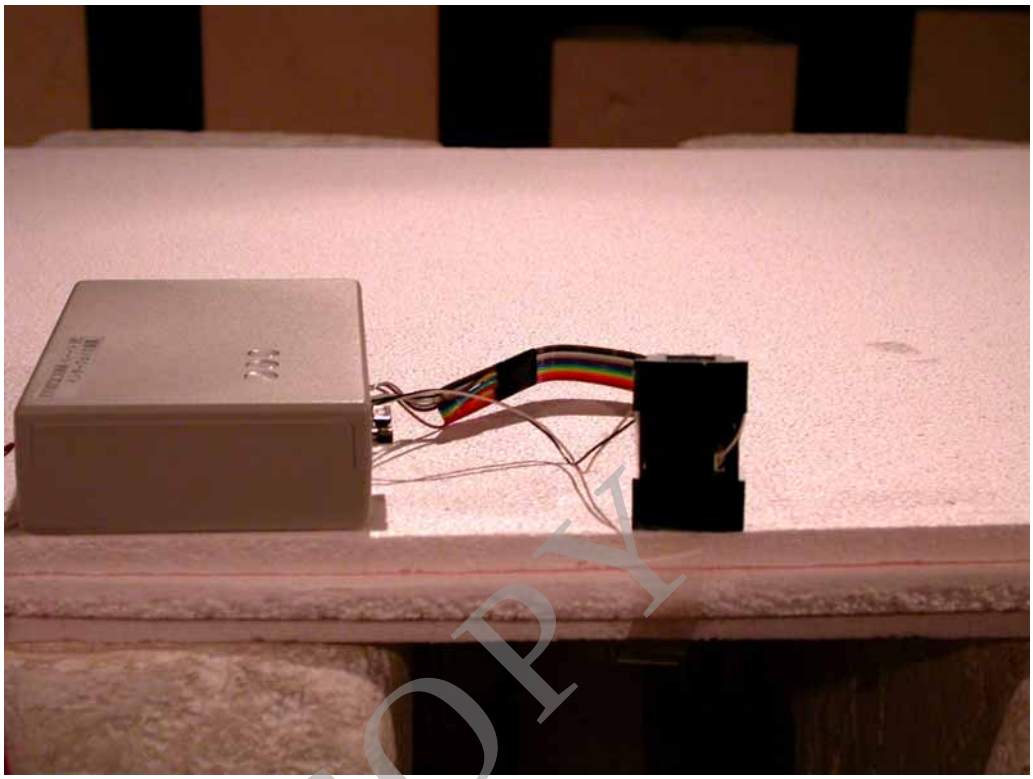
- Y1 axis(Front) -



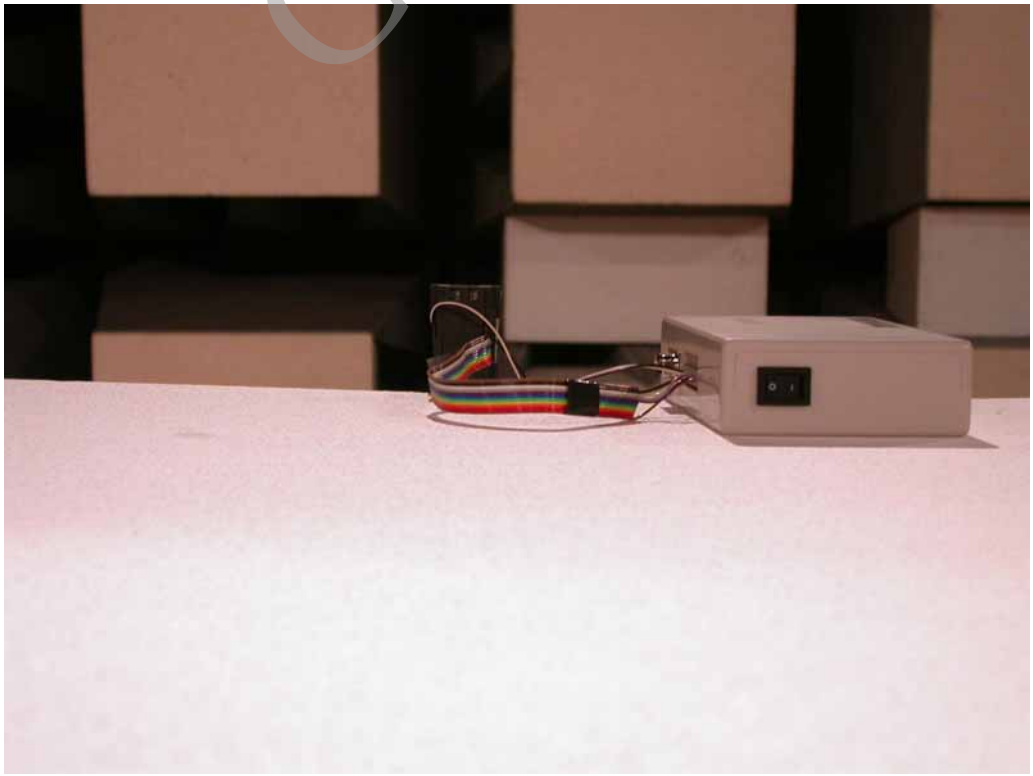
- Y1 axis(Rear) -

PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT

Photograph present configuration with maximum emission



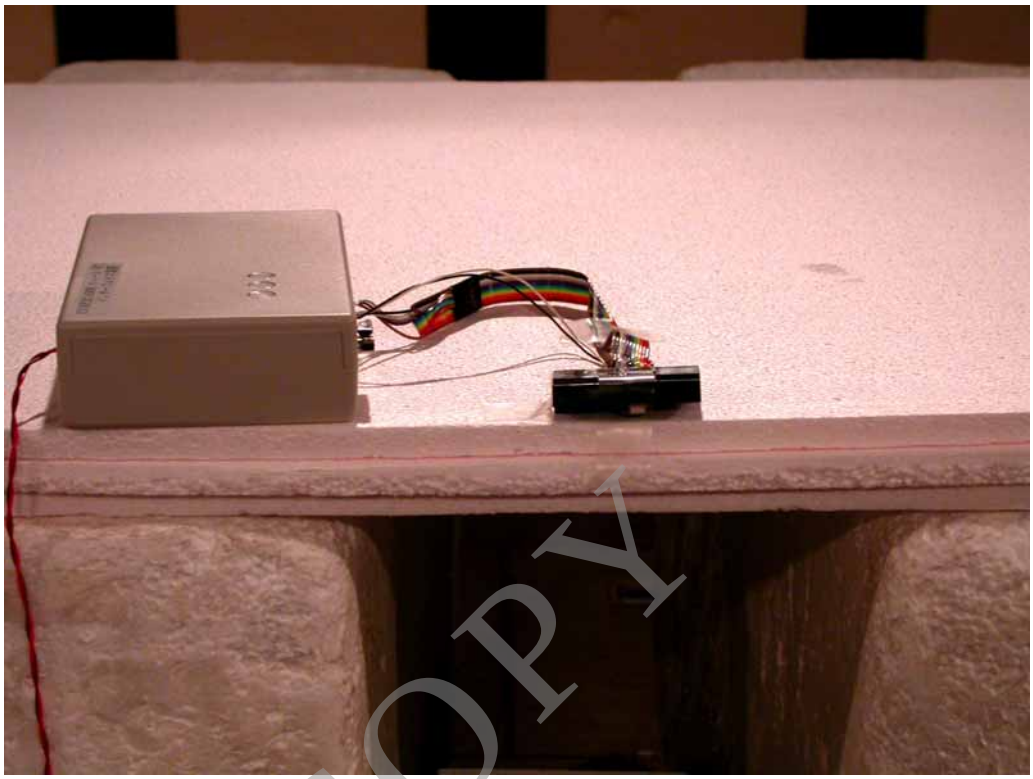
- Y2 axis(Front) -



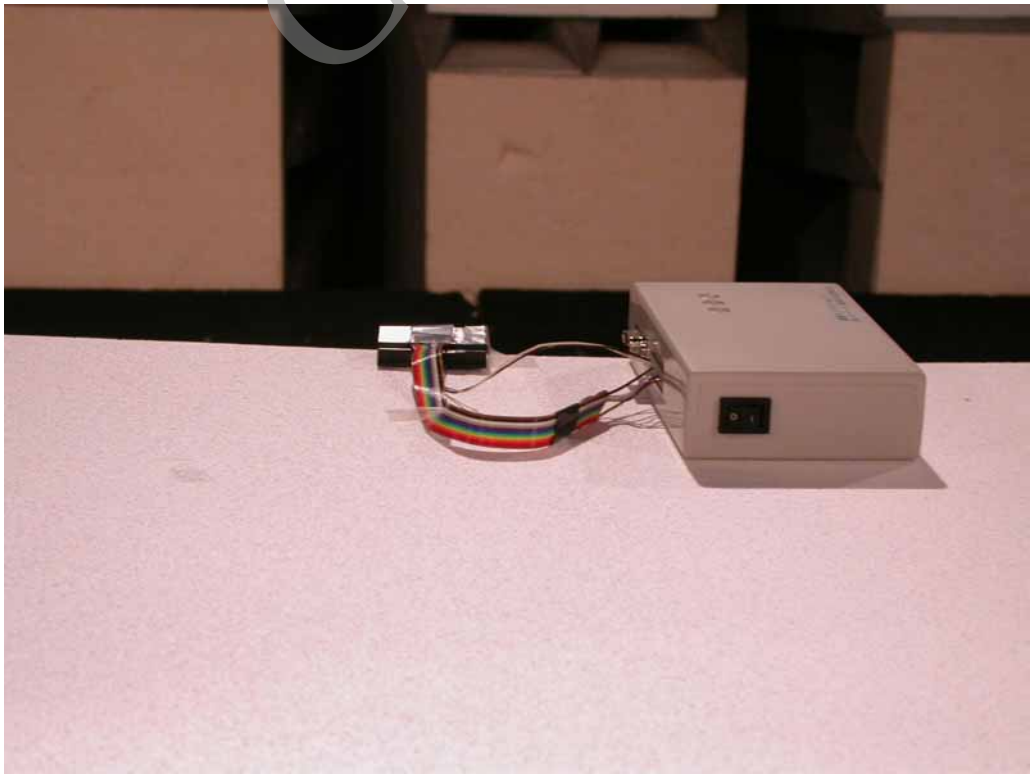
- Y2 axis(Rear) -

PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT

Photograph present configuration with maximum emission



- Z1 axis(Front) -

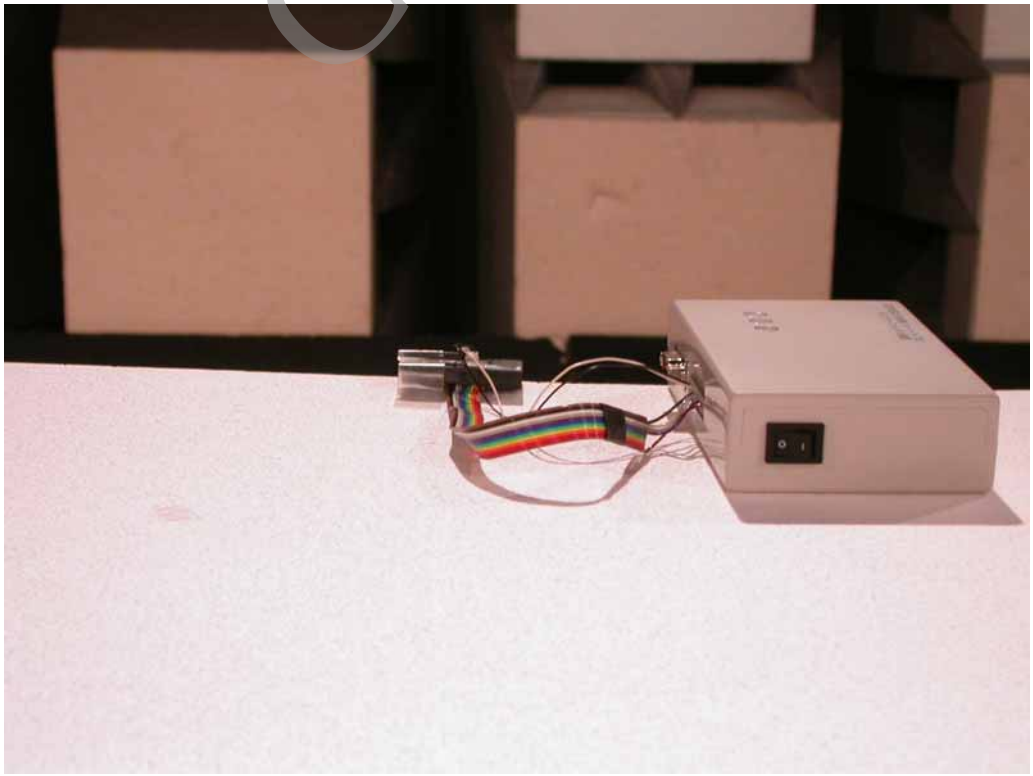


- Z1 axis(Rear) -

PHOTOGRAPHS OF EUT CONFIGURATION FOR RADIATED EMISSIONS MEASUREMENT

Photograph present configuration with maximum emission

- Z2 axis(Front) -



- Z2 axis(Rear) -

2. TEST DATA

2.1 Channel Separation

Not Tested
(Because of only the power supply unit of the EUT# was changed by the manufacturer.
#: The original EUT was already approved as FCC ID: TR200000000001.
We decided that this modification is not effect to this measurement item.)

2.2 Minimum Hopping Channel

Not Tested
(Because of only the power supply unit of the EUT# was changed by the manufacturer.
#: The original EUT was already approved as FCC ID: TR200000000001.
We decided that this modification is not effect to this measurement item.)

2.3 Occupied Bandwidth

Not Tested
(Because of only the power supply unit of the EUT# was changed by the manufacturer.
#: The original EUT was already approved as FCC ID: TR200000000001.
We decided that this modification is not effect to this measurement item.)

2.4 Dwell Time

Not Tested
(Because of only the power supply unit of the EUT# was changed by the manufacturer.
#: The original EUT was already approved as FCC ID: TR200000000001.
We decided that this modification is not effect to this measurement item.)

2.5 Peak Output Power (Conduction)

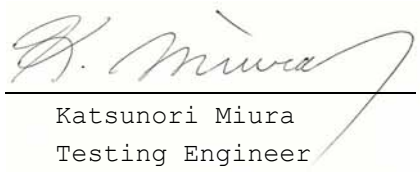
Date : December 19, 2006
Temp.: 24 °C Humi.: 36 %

Test Port : Temporary antenna connector

Mode of EUT	Cable Loss (dB)	Att. Loss (dB)	Meter Reading (dBm)	Peak Power (dBm)	Limit (dBm)
TX (2402 MHz)	0.3	10.08	-13.54	-3.16	30
TX (2441 MHz)	0.3	10.08	-13.36	-2.98	30
TX (2480 MHz)	0.3	10.08	-13.11	-2.73	30

Note : 1) Rated Supply Voltage : Flash Battery was used
2) A sample calculation was made at 2402 MHz.
CL + AL + MR = 0.3 + 10.08 + (-13.54) = -3.16 (dBm)
CL : Cable Loss
AL : Attenuator Loss
MR : Meter Reading
3) Measuring Instruments Setting :

Detector Function	Resolution Bandwidth
Peak	1 MHz

Tested by : 
Katsunori Miura
Testing Engineer

2.6 Peak Output Power (Radiation)

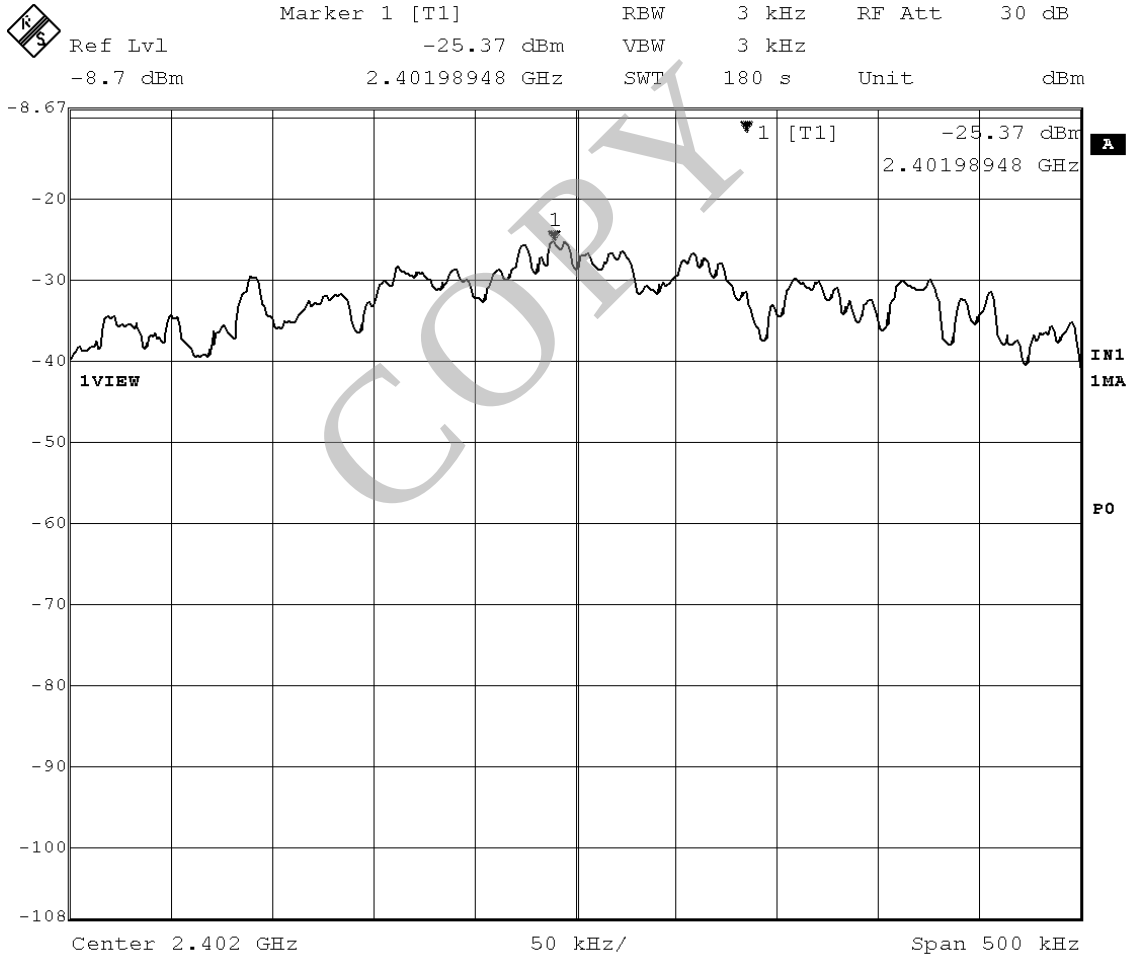
Not Applicable

2.7 Peak Power Density (Conduction)

Date : December 19, 2006
Temp.: 19 °C Humi.: 36 %

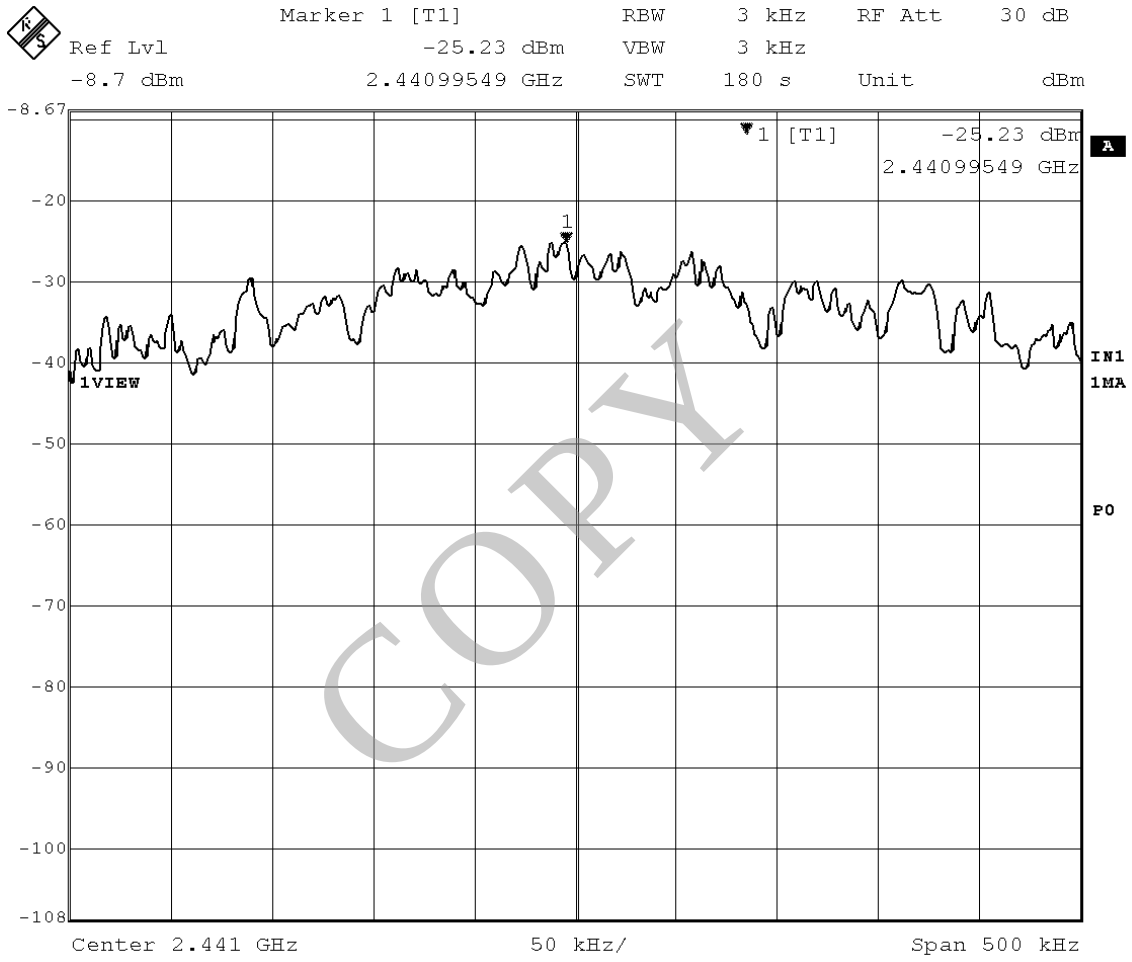
Mode of EUT : TX (0ch: 2402 MHz)
Test Port : Temporary antenna connector

Cable Loss (dB)	Att. Loss (dB)	Meter Reading (dBm)	Peak Power (dBm)	Limit (dBm)
0.3	10.48	-25.37	-14.59	8



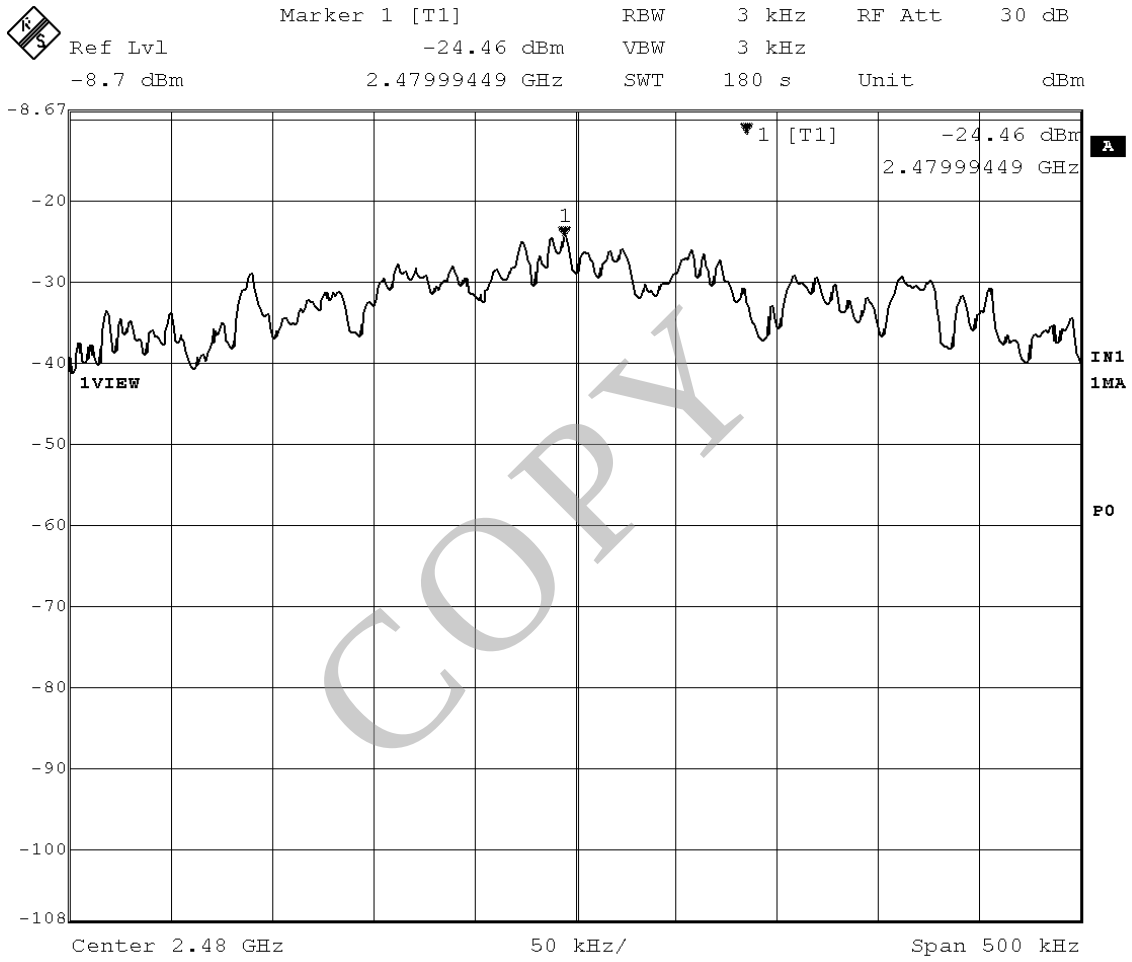
Mode of EUT : TX (39ch: 2441 MHz)
Test Port : Temporary antenna connector

Cable Loss (dB)	Att. Loss (dB)	Meter Reading (dBm)	Peak Power (dBm)	Limit (dBm)
0.3	10.48	-25.23	-14.45	8



Mode of EUT : TX (78ch: 2480 MHz)
Test Port : Temporary antenna connector

Cable Loss (dB)	Att. Loss (dB)	Meter Reading (dBm)	Peak Power (dBm)	Limit (dBm)
0.3	10.48	-24.46	-13.68	8



Note : 1) A sample calculation was made.
CL + AL + MR = 0.2 + 10.08 + (-24.89) = -14.21 (dBm)
CL : Cable Loss
AL : Attenuator Loss
MR : Meter Reading
2) Measuring Instruments Setting :

Detector Function	Resolution Bandwidth
Peak	3 kHz

Tested by : Katsunori Miura
Testing Engineer

2.8 Peak Power Density (Radiation)

Not Applicable

2.9 Spurious Emissions (Conduction)

2.9.1 Band Edge Compliance

Not Tested
(Because of only the power supply unit of the EUT# was changed by the manufacturer.
#: The original EUT was already approved as FCC ID: TR200000000001.
We decided that this modification is not effect to this measurement item.)

2.9.2 Other Spurious Emissions

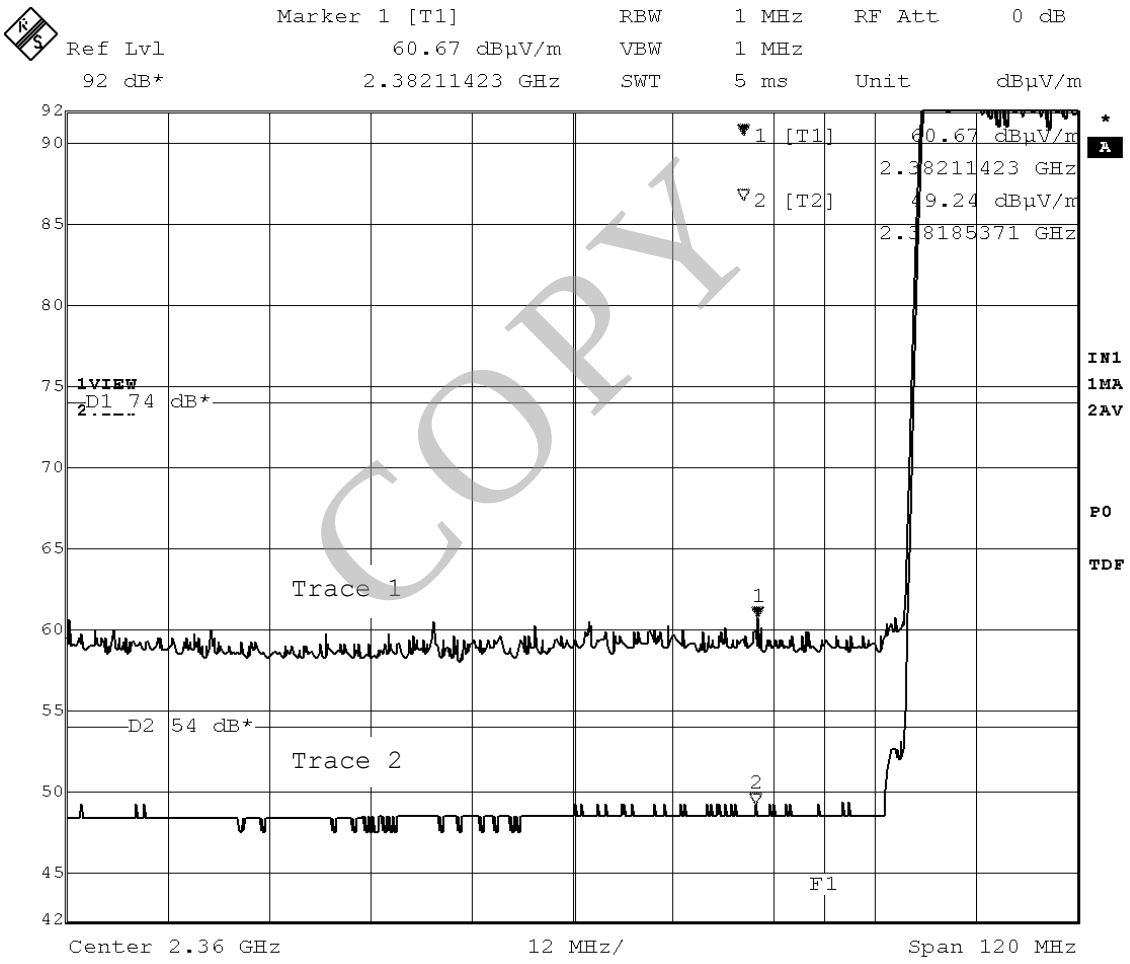
Not Tested
(Because of only the power supply unit of the EUT# was changed by the manufacturer.
#: The original EUT was already approved as FCC ID: TR200000000001.
We decided that this modification is not effect to this measurement item.)

2.10 Spurious Emissions (Radiation)

2.10.1 Band Edge Compliance

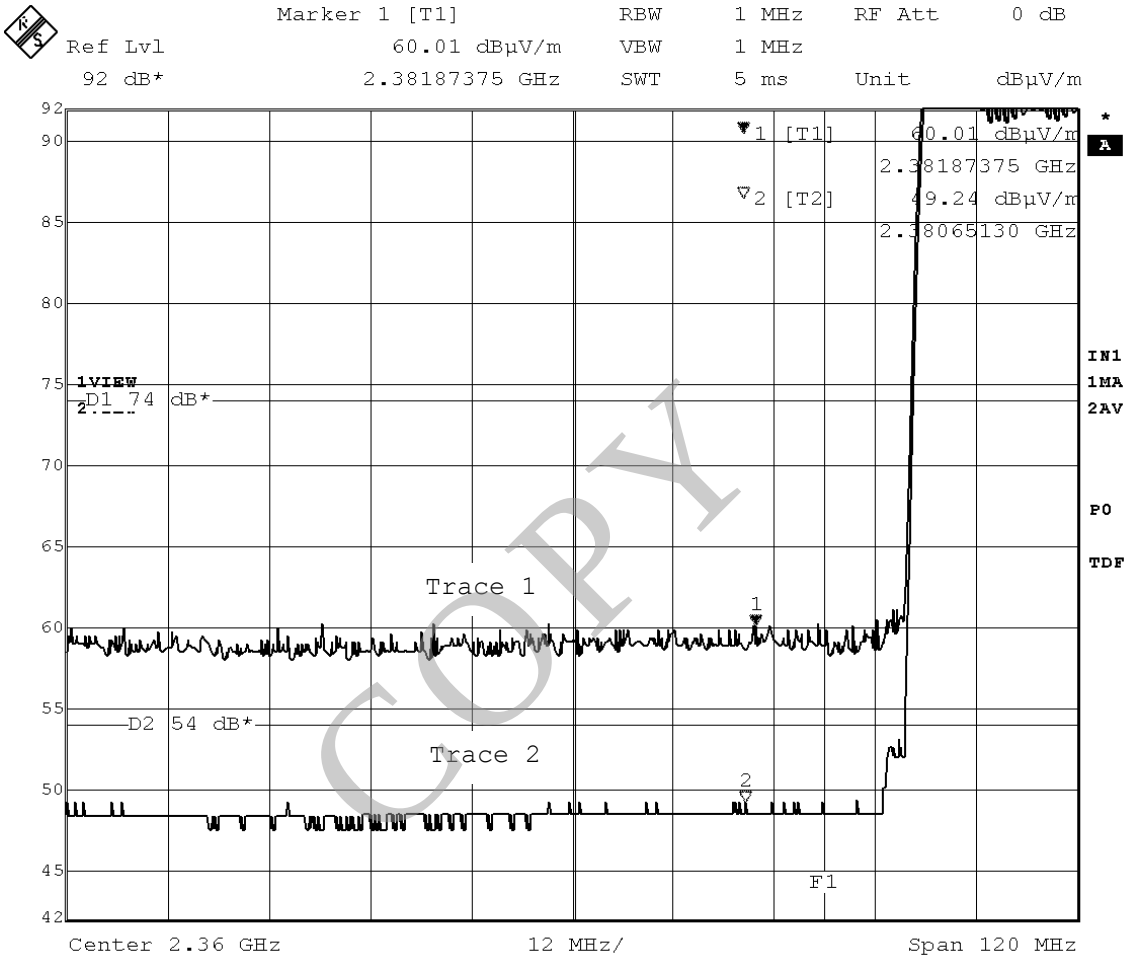
Date : December 18, 2006
Temp.: 24 °C Humi.: 43 %

Mode of EUT : Hopping
Test Port : Enclosure
Antenna Polarization: Horizontal



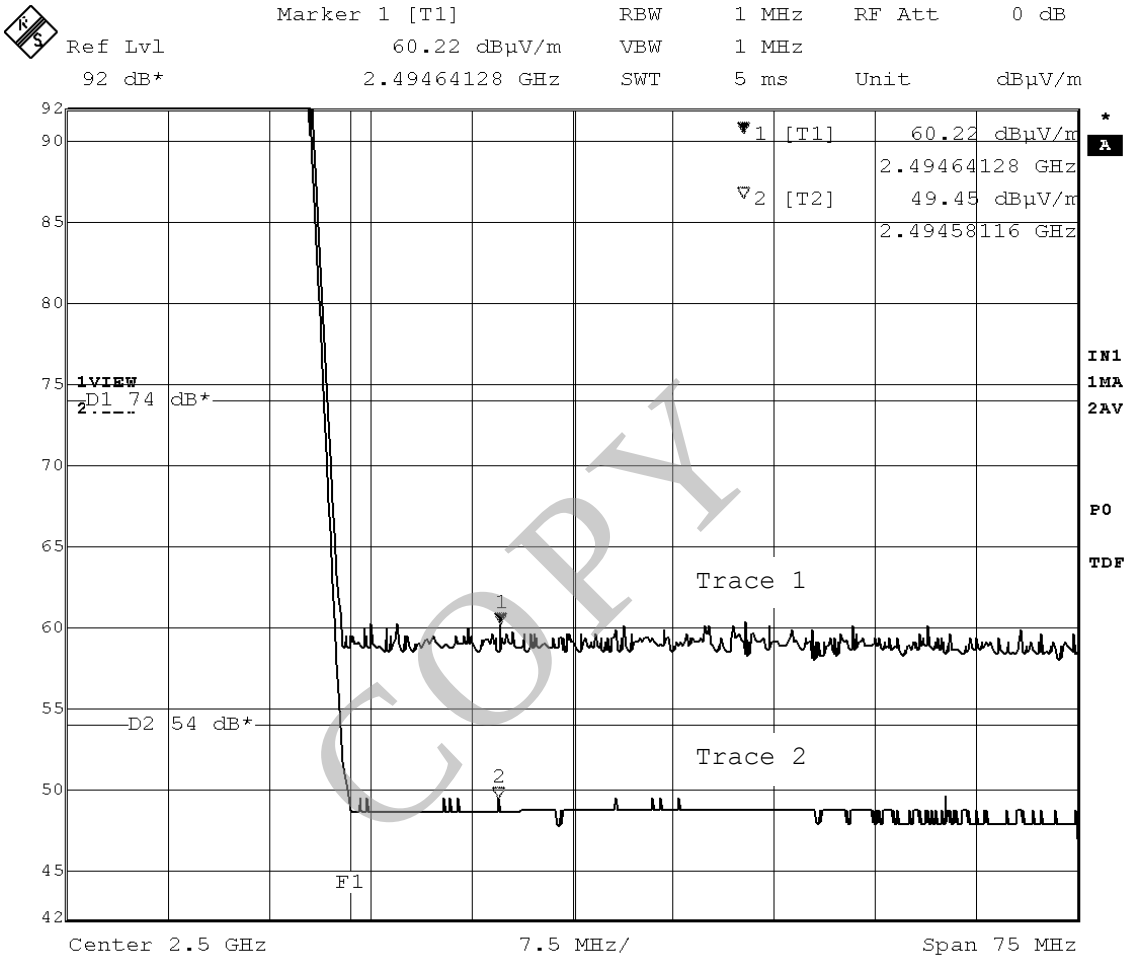
Note: The trace 1 is Peak detection. The trace 2 is Average detection.

Mode of EUT : Hopping
Test Port : Enclosure
Antenna Polarization: Vertical



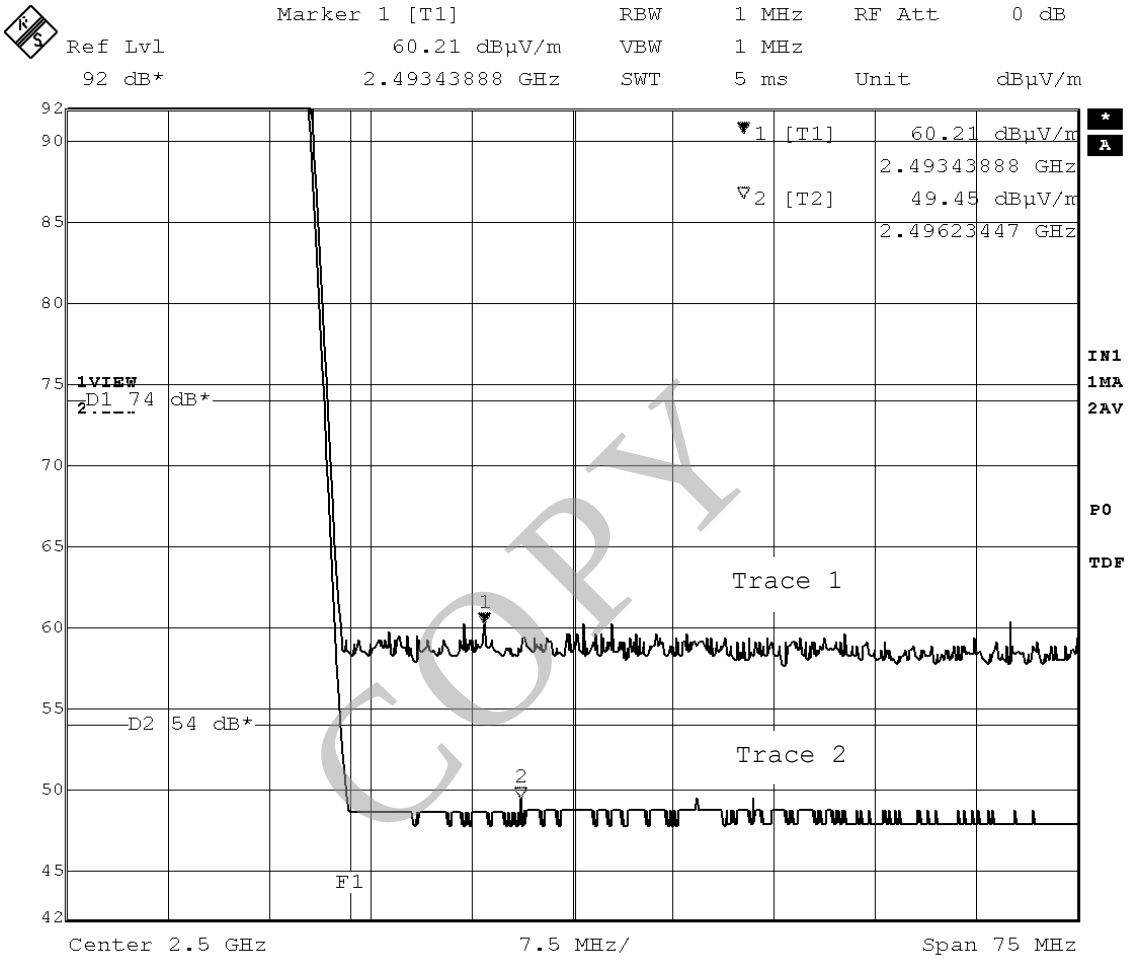
Note: The trace 1 is Peak detection. The trace 2 is Average detection.

Mode of EUT : Hopping
Test Port : Enclosure
Antenna Polarization: Horizontal



Note: The trace 1 is Peak detection. The trace 2 is Average detection.

Mode of EUT : Hopping
Test Port : Enclosure
Antenna Polarization: Vertical



Note: The trace 1 is Peak detection. The trace 2 is Average detection.

2.10.2 Other Spurious Emissions

2.10.2.1 Spurious Emissions in the frequency range from 9 kHz to 30 MHz

Date : December 18, 2006
Temp.: 24 °C Humi.: 43 %

Test Port : Enclosure

Mode of EUT : All modes have been investigated and the worst case mode for Channel (78ch: 2480 MHz) has been listed.

No spurious emissions in the range 20 dB below the limit.

2.10.2.2 Spurious Emissions in the frequency range from 30 MHz to 1000 MHz

Date : December 18, 2006
Temp.: 24 °C Humi.: 43 %

Test Port : Enclosure

Mode of EUT : All modes have been investigated and the worst case mode for Channel (78ch: 2480 MHz) has been listed.

Frequency (MHz)	P-A Factor (dB)	Correction Factor (dB)	Polarization	Meter Reading (dBuV) QP	AV	Peak	Limits (dBuV/m) QP/AV	Peak	Emission Levels (dBuV/m) QP/AV	Peak	Margins (dB) QP/AV	Peak
36.88	0.0	19.6	V	2.8	-	-	40.0	-	22.4	-	17.6	-
82.62	0.0	10.7	V	18.2	-	-	40.0	-	28.9	-	11.1	-
85.28	0.0	11.1	V	17.0	-	-	40.0	-	28.1	-	11.9	-
92.32	0.0	12.5	V	13.0	-	-	43.5	-	25.5	-	18.0	-
96.60	0.0	13.5	V	7.4	-	-	43.5	-	20.9	-	22.6	-
302.28	0.0	18.9	H	7.7	-	-	46.0	-	26.6	-	19.4	-
346.52	0.0	19.6	H	8.4	-	-	46.0	-	28.0	-	18.0	-

Notes :
1) The spectrum was checked from 30 MHz to 1000 MHz.
2) The cable loss, amp. gain and antenna factor are included in the correction factor.
3) The symbol of "<"means "or less".
4) The symbol of ">"means "or greater".
5) A sample calculation(QP/AV) was made at 36.88 (MHz).
PA + Cf + Mr = 0 + 19.6 + 2.8 = 22.4 (dBuV/m)
PA = Peak to Average Factor(P-A Factor)
Cf = Correction Factor
Mr = Meter Reading
6) Measuring Instrument Setting :

Detector function	Resolution Bandwidth	Video Bandwidth
Quasi-peak(QP)	120 kHz	-

2.10.2.3 Spurious Emissions in the frequency above 1000 MHz

Date : December 18, 2006
Temp.: 24 °C Humi.: 43 %

Test Port : Enclosure

Mode of EUT : TX (0ch: 2402 MHz)

Frequency (GHz)	P-A Factor (dB)	Correction Factor (dB)	Polarization	Meter Reading (dBuV) AV	Meter Reading (dBuV) Peak	Limits (dBuV/m) AV	Limits (dBuV/m) Peak	Emission Levels (dBuV/m) AV	Emission Levels (dBuV/m) Peak	Margins (dB) AV	Margins (dB) Peak
1.2005	0.0	-3.0	H	45.0	48.7	54.0	74.0	42.0	45.7	12.0	28.3
4.8040	0.0	7.4	H	< 28.0	< 41.0	54.0	74.0	< 35.4	< 48.4	> 18.6	> 25.6
7.2060	0.0	10.9	H	< 28.0	< 41.0	54.0	74.0	< 38.9	< 51.9	> 15.1	> 22.1

Mode of EUT : TX (39ch: 2441 MHz)

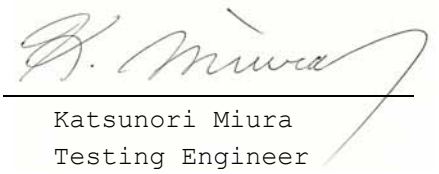
Frequency (GHz)	P-A Factor (dB)	Correction Factor (dB)	Polarization	Meter Reading (dBuV) AV	Meter Reading (dBuV) Peak	Limits (dBuV/m) AV	Limits (dBuV/m) Peak	Emission Levels (dBuV/m) AV	Emission Levels (dBuV/m) Peak	Margins (dB) AV	Margins (dB) Peak
1.2200	0.0	-2.9	H	46.3	49.8	54.0	74.0	43.4	46.9	10.6	27.1
4.8820	0.0	7.5	H	< 28.0	< 41.0	54.0	74.0	< 35.5	< 48.5	> 18.5	> 25.5
7.3230	0.0	11.1	H	< 28.0	< 41.0	54.0	74.0	< 39.1	< 52.1	> 14.9	> 21.9

Mode of EUT : TX (78ch: 2480 MHz)

Frequency (GHz)	P-A Factor (dB)	Correction Factor (dB)	Polarization	Meter Reading (dBuV) AV	Meter Reading (dBuV) Peak	Limits (dBuV/m) AV	Limits (dBuV/m) Peak	Emission Levels (dBuV/m) AV	Emission Levels (dBuV/m) Peak	Margins (dB) AV	Margins (dB) Peak
1.2395	0.0	-2.9	H	46.5	49.9	54.0	74.0	43.6	47.0	10.4	27.0
4.9600	0.0	7.7	H	< 28.0	< 41.0	54.0	74.0	< 35.7	< 48.7	> 18.3	> 25.3
7.4400	0.0	11.2	H	< 28.0	< 41.0	54.0	74.0	< 39.2	< 52.2	> 14.8	> 21.8

Notes : 1) The spectrum was checked from 1.0 GHz to 26.5 GHz.
2) The cable loss, amp. gain and antenna factor are included in the correction factor.
3) The symbol of "<"means "or less".
4) The symbol of ">"means "or greater".
5) A sample calculation(Peak) was made at 1.2005 (GHz).
PA + Cf + Mr = 0 + -3 + 48.7 = 45.7 (dBuV/m)
PA = Peak to Average Factor(P-A Factor)
Cf = Correction Factor
Mr = Meter Reading
6) Measuring Instrument Setting :

Detector function	Resolution Bandwidth	Video Bandwidth
Average(AV)	1 MHz	10 Hz
Peak	1 MHz	1 MHz

Tested by : 
Katsunori Miura
Testing Engineer

2.11 AC Power Line Conducted Emissions

Not Applicable

2.12 RF Exposure Compliance

Not Applicable

2.13 Spurious Emissions for Receiver (Radiation)

2.13.1 Spurious Emissions in the frequency range from 30 MHz to 1000 MHz

Date : December 18, 2006
Temp.: 24 °C Humi.: 43 %

Test Port : Enclosure

Mode of EUT : All modes have been investigated and the worst case mode for Channel (78ch: 2480 MHz) has been listed.

Frequency (MHz)	P-A Factor (dB)	Correction Factor (dB)	Polarization	Meter Reading (dBuV) QP	AV	Peak	Limits (dBuV/m) QP/AV	Peak	Emission Levels (dBuV/m) QP/AV	Peak	Margins (dB) QP/AV	Peak
36.88	0.0	19.6	V	2.8	-	-	40.0	-	22.4	-	17.6	-
82.62	0.0	10.7	V	18.2	-	-	40.0	-	28.9	-	11.1	-
85.28	0.0	11.1	V	17.0	-	-	40.0	-	28.1	-	11.9	-
92.32	0.0	12.5	V	13.0	-	-	43.5	-	25.5	-	18.0	-
96.60	0.0	13.5	V	7.4	-	-	43.5	-	20.9	-	22.6	-
302.28	0.0	18.9	H	7.7	-	-	46.0	-	26.6	-	19.4	-
346.52	0.0	19.6	H	8.4	-	-	46.0	-	28.0	-	18.0	-

Notes :
1) The spectrum was checked from 30 MHz to 1000 MHz.
2) The cable loss, amp. gain and antenna factor are included in the correction factor.
3) The symbol of "<"means "or less".
4) The symbol of ">"means "or greater".
5) A sample calculation(QP/AV) was made at 36.88 (MHz).
PA + Cf + Mr = 0 + 19.6 + 2.8 = 22.4 (dBuV/m)
PA = Peak to Average Factor(P-A Factor)
Cf = Correction Factor
Mr = Meter Reading
6) Measuring Instrument Setting :

Detector function	Resolution Bandwidth	Video Bandwidth
Quasi-peak(QP)	120 kHz	-
Average(AV)	1 MHz	10 Hz
Peak	1 MHz	1 MHz

2.13.2 Spurious Emissions in the frequency above 1000 MHz

Date : December 18, 2006
Temp.: 24 °C Humi.: 43 %

Test Port : Enclosure

Mode of EUT : RX (0ch: 2402 MHz)

Frequency (GHz)	P-A Factor (dB)	Correction Factor (dB)	Polarization	Meter Reading (dBuV) AV	Meter Reading (dBuV) Peak	Limits (dBuV/m) AV	Limits (dBuV/m) Peak	Emission Levels (dBuV/m) AV	Emission Levels (dBuV/m) Peak	Margins (dB) AV	Margins (dB) Peak
1.2002	0.0	-3.0	H	45.1	47.8	54.0	74.0	42.1	44.8	11.9	29.2
2.4005	0.0	1.6	H	42.0	45.2	54.0	74.0	43.6	46.8	10.4	27.2

Mode of EUT : RX (39ch: 2441 MHz)

Frequency (GHz)	P-A Factor (dB)	Correction Factor (dB)	Polarization	Meter Reading (dBuV) AV	Meter Reading (dBuV) Peak	Limits (dBuV/m) AV	Limits (dBuV/m) Peak	Emission Levels (dBuV/m) AV	Emission Levels (dBuV/m) Peak	Margins (dB) AV	Margins (dB) Peak
1.2197	0.0	-2.9	H	47.2	49.5	54.0	74.0	44.3	46.6	9.7	27.4
2.4395	0.0	1.7	H	42.2	45.4	54.0	74.0	43.9	47.1	10.1	26.9

Mode of EUT : RX (78ch: 2480 MHz)

Frequency (GHz)	P-A Factor (dB)	Correction Factor (dB)	Polarization	Meter Reading (dBuV) AV	Meter Reading (dBuV) Peak	Limits (dBuV/m) AV	Limits (dBuV/m) Peak	Emission Levels (dBuV/m) AV	Emission Levels (dBuV/m) Peak	Margins (dB) AV	Margins (dB) Peak
1.2392	0.0	-2.8	H	46.5	49.2	54.0	74.0	43.7	46.4	10.3	27.6
2.4785	0.0	1.8	H	43.6	46.3	54.0	74.0	45.4	48.1	8.6	25.9

Notes : 1) The spectrum was checked from 1.0 GHz to 26.5 GHz.
2) The cable loss, amp. gain and antenna factor are included in the correction factor.
3) The symbol of "<"means "or less".
4) The symbol of ">"means "or greater".
5) A sample calculation(Peak) was made at 1.2002 (GHz).
PA + Cf + Mr = 0 + -3 + 47.8 = 44.8 (dBuV/m)
PA = Peak to Average Factor(P-A Factor)
Cf = Correction Factor
Mr = Meter Reading
6) Measuring Instrument Setting :

Detector function	Resolution Bandwidth	Video Bandwidth
Average(AV)	1 MHz	10 Hz
Peak	1 MHz	1 MHz

Tested by : K. Miura
Katsunori Miura
Testing Engineer

2.14 AC Power Line Conducted Emissions for Receiver

Not Applicable

Appendix

Test Instruments List

27-Dec-2006

No	Type	Model	Manufacturer	Serial	ID	Last Cal.	Interval
Test Facilities:							
1	Anechoic Chamber A	-	TDK	-	800-01-502E0	Mar 2006	1 Year
2	Anechoic Chamber B	-	TDK	-	800-01-503E0	Mar 2006	1 Year
3	Shield Room A	-	TDK	-	800-01-501E0	-	-
4	Shield Room B	-	Ray Proof	-	800-01-010E0	-	-
5	Shield Room C	-	TDK	-	800-01-504E0	-	-
6	Shield Room D	-	Emerson	-	800-01-022E0	-	-
7	Shield Room E	-	TDK	-	800-01-505E0	-	-
Measuring Instruments:							
10	Test Receiver	ESHS10	Rohde & Schwarz	835871/004	119-01-505E0	Apr 2006	1 Year
11	Test Receiver	ESVS10	Rohde & Schwarz	826148/002	119-03-504E0	Apr 2006	1 Year
12	Test Receiver	ESVS10	Rohde & Schwarz	832699/001	119-03-506E0	Apr 2006	1 Year
13	Test Receiver	ESI26	Rohde & Schwarz	100043	119-04-511E0	Aug 2006	1 Year
14	Spectrum Analyzer	R3182	Advantest	120600581	122-02-521E0	Mar 2006	1 Year
17	Spectrum Analyzer	8566B	Hewlett Packard	2747A05855	122-02-517E0	Apr 2006	1 Year
18	RF Pre-selector	85685A	Hewlett Packard	2901A00933	122-02-519E0	Apr 2006	1 Year
19	Spectrum Analyzer	R3132	Advantest	120500072	122-02-520E0	Sep 2006	1 Year
20	Spectrum Analyzer	R3132	Advantest	150400998	122-02-523E0	Jul 2006	1 Year
65	Power Meter	436A	Hewlett Packard	1725A01930	100-02-501E0	Apr 2006	1 Year
66	Power Sensor	8482A	Hewlett Packard	1551A01013	100-02-501E0	Apr 2006	1 Year
67	Power Sensor	8485A	Hewlett Packard	2942A08969	100-04-021E0	Apr 2006	1 Year
68	FM Linear Detector	MS61A	Anritsu	M77486	123-02-008E0	Oct 2006	1 Year
69	Level Meter	ML422C	Anritsu	M87571	114-02-501E0	Jun 2006	1 Year
70	Measuring Amplifier	2636	B & K	1614851	082-01-502E0	May 2006	1 Year
75	Frequency Counter	53131A	Hewlett Packard	3546A11807	102-02-075E0	May 2006	1 Year
83	FFT Analyzer	R9211C	Advantest	02020253	122-02-506E0	Jun 2006	1 Year
84	Noise Meter	MN-446	Meguro	53030478	082-01-144E0	Apr 2006	1 Year
86	Peak Power Analyzer	8990A/84815A	Hewlett Packard	3220A00486/ 3227A00118	100-02-016E0	Apr 2006	1 Year
163	Digital Oscilloscope	54502A	Hewlett Packard	2934A05573	121-02-502E0	May 2006	1 Year
165	Multimeter	VOAC7413	Iwatsu Electric	0267973	114-02-502E0	Apr 2006	1 Year
172	Test Receiver	ESCI	Rohde & Schwarz	100408	119-04-512E0	Sep 2006	1 Year
Antennas:							
21	Loop Antenna	HFH2-Z2	Rohde & Schwarz	881058/62	119-05-033E0	Jun 2006	1 Year
22	Dipole Antenna	KBA-511	Kyoritsu	0-170-1	119-05-506E0	Oct 2006	1 Year
23	Dipole Antenna	KBA-511A	Kyoritsu	0-201-13	119-05-504E0	Oct 2006	1 Year
24	Dipole Antenna	KBA-611	Kyoritsu	0-147-14	119-05-507E0	Oct 2006	1 Year
25	Dipole Antenna	KBA-611	Kyoritsu	0-170-1	119-05-505E0	Oct 2006	1 Year
27	Biconical Antenna	BBA9106	Schwarzbeck	-	119-05-078E0	Nov 2006	1 Year
28	Log-periodic Antenna	UHALP9107	Schwarzbeck	-	119-05-079E0	Nov 2006	1 Year
30	Log-periodic Antenna	HL025	Rohde & Schwarz	340182/015	119-05-100E0	Jun 2006	1 Year
31	Horn Antenna	3115	EMC Test Systems	6442	119-05-514E0	Jan 2006	2 Year
32	Horn Antenna	3116	EMC Test Systems	2547	119-05-515E0	May 2005	2 Year
167	Biconical Antenna	BBA9106	Schwarzbeck	VHA91032325	119-05-520E0	May 2006	1 Year
168	Log-periodic Antenna	UHALP9108A	Schwarzbeck	0666	119-05-521E0	May 2006	1 Year
169	Biconical Antenna	BBA9106	Schwarzbeck	VHA91032399	119-05-522E0	May 2006	1 Year
170	Log-periodic Antenna	UHALP9108A	Schwarzbeck	0724	119-05-523E0	May 2006	1 Year

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No	Type	Model	Manufacturer	Serial	ID	Last Cal.	Interval
Cables:							
38	RF Cable	5D-2W	Fujikura	-	155-21-001E0	Feb 2006	1 Year
39	RF Cable	5D-2W	Fujikura	-	155-21-002E0	Feb 2006	1 Year
40	RF Cable	3D-2W	Fujikura	-	155-21-005E0	Apr 2006	1 Year
41	RF Cable	3D-2W	Fujikura	-	155-21-006E0	Apr 2006	1 Year
42	RF Cable	3D-2W	Fujikura	-	155-21-007E0	Apr 2006	1 Year
43	RF Cable	RG213/U	Rohde & Schwarz	-	155-21-010E0	Apr 2006	1 Year
44	RF Cable(10m)	S 04272B	Suhner	-	155-21-011E0	May 2006	1 Year
45	RF Cable(1.5m 18GHz)	S 04272B	Suhner	-	155-21-012E0	May 2006	1 Year
46	RF Cable(1m 18GHz)	SUCOFLEX	Suhner	-	155-21-013E0	May 2006	1 Year
47	RF Cable(1m N)	S 04272B	Suhner	-	155-21-015E0	Jun 2006	1 Year
48	RF Cable(1m 26GHz)	SUCOFLEX 104E	Suhner	14543/4E	155-21-016E0	Dec 2006	1 Year
49	RF Cable(4m 26GHz)	SUCOFLEX	Suhner	190630	155-21-017E0	Dec 2006	1 Year
50	RF Cable(10m)	F130-S1S1-394	MEGA PHASE	10510	155-21-018E0	Dec 2006	1 Year
51	RF Cable(7m)	3D-2W	Fujikura	-	155-21-009E0	Apr 2006	1 Year
52	RF Cable(7m)	RG223/U	Suhner	-	155-21-021E0	May 2006	1 Year
Networks:							
33	LISN	KNW-407	Kyoritsu	8-833-6	149-04-052E0	Apr 2006	1 Year
34	LISN	KNW-407	Kyoritsu	8-855-2	149-04-055E0	Apr 2006	1 Year
35	LISN	KNW-407	Kyoritsu	8-1130-6	149-04-062E0	Apr 2006	1 Year
36	LISN	KNW-242C	Kyoritsu	8-837-13	149-04-054E0	Apr 2006	1 Year
37	Absorbing Clamp	MDS21	Luthi	03293	119-06-506E0	Aug 2006	1 Year
164	LISN	KNW-403D	Kyoritsu	8-1474-3	149-04-059E0	Apr 2006	1 Year
173	Pulse Limiter	ESH3-Z2	Rohde & Schwarz	-	156-01-501E0	Apr 2006	1 Year
174	Pulse Limiter	ESH3-Z2	Rohde & Schwarz	-	156-01-502E0	Apr 2006	1 Year
175	Pulse Limiter	ESH3-Z2	Rohde & Schwarz	-	156-01-503E0	Apr 2006	1 Year
Amplifiers:							
53	AF Amplifier	P-500L	Accuphase	BOY806	127-01-501E0	Feb 2006	1 Year
54	RF Amplifier	WJ-6882-814	Watkins-Johnson	0414	127-04-017E0	Jun 2006	1 Year
55	RF Amplifier	WJ-5315-556	Watkins-Johnson	106	127-04-006E0	Jun 2006	1 Year
56	RF Amplifier	WJ-5320-307	Watkins-Johnson	645	127-04-005E0	Jun 2006	1 Year
57	RF Amplifier	JS4-00102600-28-5A	MITEQ	669167	127-04-502E0	Apr 2006	1 Year
Generators:							
58	Function Generator	3325B	Hewlett Packard	2847A03284	118-08-124E0	Jul 2006	1 Year
59	Function Generator	VP-7422A	Matsushita Communication	050351E122	118-08-503E0	Jul 2006	1 Year
60	Signal Generator	8664A	Hewlett Packard	3035A00140	118-03-014E0	May 2006	1 Year
61	Signal Generator	8664A	Hewlett Packard	3438A00756	118-04-502E0	May 2006	1 Year
62	Signal Generator	6061A	Gigatronics	5130593	118-04-024E0	Mar 2006	1 Year

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Others:							
63	Termination(50)	-	Suhner	-	154-06-501E0	Jan 2006	1 Year
64	Termination(50)	-	Suhner	-	154-06-502E0	Jan 2006	1 Year
71	Microphone	4134	B & K	1253497	147-01-502E0	May 2006	1 Year
72	Preamplifier	2639	B & K	1268763	127-01-504E0	-	-
73	Pistonphone	4220	B & K	1165008	147-02-501E0	Mar 2006	1 Year
74	Artificial Mouth	4227	B & K	1274869	-	-	-
76	Oven	-	Ohnishi	-	023-02-018E0	-	-
77	DC Power Supply	6628A	Hewlett Packard	3224A00284	072-05-503E0	Jun 2006	1 Year
78	Band RejectFilter	BRM12294	Micro-tronics	003	149-01-501E0	Jan 2006	1 Year
79	High Pass Filter	F-100-4000-5-R	RLC Electronics	0149	149-01-502E0	Feb 2006	1 Year
80	Attenuator	43KC-10	Anritsu	-	148-03-506E0	Feb 2006	1 Year
81	Attenuator	43KC-20	Anritsu	-	148-03-507E0	Feb 2006	1 Year
82	Attenuator	355D	Hewlett Packard	219-10782	148-03-065E0	Apr 2006	1 Year
85	RF Detector	75KC-50	Anritsu	305002	100-02-506E0	Jul 2006	1 Year