

Certificate of Test

February 2007

Oasis Est. for Electronic Technologies

Product Type : PC System
Model Number : C2D900+
Brand Name : Samsync
FCC ID : UZQ-C2D900
Test Report Number : 0702003 Rev. 1
Date of Test : September 21, 2006 - February 01, 2007

This Product was tested to the following standards at the laboratory of Global EMC Standard Tech. Corp., and found Compliance.

Standards:

CFR 47, Part 15 / CISPR 22 3rd Edition: 1997, Class B
ANSI C63.4: 2005
Canadian ICES-003

[http : //www.gestek.com.tw](http://www.gestek.com.tw)



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Date: February 15, 2007





Oasis Est. for Electronic Technologies

**EUT:
PC System**

**Model Number:
C2D900+**

**FCC ID:
UZQ-C2D900**

**Prepared for:
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1. CERTIFICATION

Applicant : Oasis Est. for Electronic Technologies

EUT Description : PC System
 Model Number : C2D900+
 Brand Name : Samsync
 FCC ID : UZQ-C2D900
 Serial Number : N/A
 Tested Power Supply : 120Vac/60Hz

MEASUREMENT PROCEDURES USED:

- ☒ **CFR 47, Part 15** Radio Frequency Device Subpart B Unintentional Radiators Class B
- ☒ **CISPR 22 3rd Edition:1997** Limits and methods of measurement of radio disturbance Characteristics of information technology equipment: 1997
- ☒ **ANSI C63.4** Methods of Measurements of Radio-Noise Emissions from Low- Voltage Electrical and Electronic Equipment in the range of 9kHz To 40GHz. 2005
- ☒ **Canadian ICES-003** Implementation and Interpretation off the Interference-Causing Equipment Standard for Digital Apparatus, ICES-003

THE MEASUREMENT SHOWN IN THE ATTACHMENT WAS MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED, AND THE MAXIMUM ENERGY EMITTED BY THE EQUIPMENT WAS FOUND TO BE WITHIN THE ABOVE LIMITS APPLICABLE.



Date of Test : September 21, 2006 - February 01, 2007

In order to ensure the quality and accuracy of this document, the contents have been thoroughly reviewed by the following qualified personnel from GesTek Lab.

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This test data shown below is traceable to National or international standard such as NIST/USA, etc. The laboratory's NVLAP accreditation in no way constitutes or implies product certification, approval, or endorsement by NVLAP or the United States government.

2. SUMMARY OF TEST RESULTS

The Worst Emission data was found as following

STANDARD	TEST ITEM	TEST RESULT	REMARKS
(1)FCC Part 15 (2)CISPR 22 3 rd Edition:1997 (3)Canadian ICES-003. Class B	Conducted emission (Mode 1)	PASS	The worst emission frequency is <u>0.4777</u> MHz. And minimum passing margin is <u>-11.05</u> dB.
	Radiated emission (Mode 1)	PASS	The worst emission frequency is <u>171.0258</u> MHz at <u>Horizontal</u> . And minimum passing margin is <u>-2.36</u> dB. Height of antenna is <u>4</u> M. Angle of turntable is <u>327°</u> .

3. GENERAL INFORMATION

3.1 PRODUCTION DESCRIPTION

Product Name : PC System
Model Number : C2D900+
Brand Name : Samsync
FCC ID : UZQ-C2D900
Serial Number : N/A
Applicant : Oasis Est. for Electronic Technologies
Address : P.O. Box 950615, Amman 11195, Jordan
Manufacturer : First International Computer Inc.
Address : NO. 300, Yang Guang St., NeiHu, Taipei, Taiwan, 114
Factory : Amertek Computer (Shenzhen) Co., Ltd.
Address : 8-10F, Bldg.17, Shenzhen Shatoujiao Free Trade Zone, Shayan Road, Shenzhen 518081, China
Power Supply : AC Input: 100~127V/6A; 200~240V/3A, 50-60Hz
Power Cord : 3Pins, Non-Shielded, 1.8m, Detachable

3.2 TEST MODES & EUT COMPONENTS DESCRIPTION

EUT : PC System , M/N:C2D900+		
Test Mode	Mode 1	Mode 2
CPU	Intel,P775 820/2.8G/800 (HH80551 PG0721M)	
Mother Board	FIC , M/N:PTC-Q965-LF	
DDR II	Infineon , HYS64T64000HU-3S-A , 512MB/667	
H.D.D	HITACHI(82.3G) , M/N:HDS728080PLA380	
O.D.D	Quanta , DVD-RW M/N:SDW-0851(F/W:DX02)	Panasonic, M/N:UJ-850UPKA-A
SATA Transfer board	N/A	FIC,M/N:51-41968E00 V1.1LR
Front I/O	WIESON ,M/N:22-11803-01	
Card Reader	IOI Card Reader 8 in 4 Rev. GLF-B3.0-00	
LAN	On Board	
VGA	On Board	
Audio	On Board	
S.P.S	HIPRO,M/N:HP-L2206F3P LF AC Input: 100~127V/6A;200~240V/3A,50-60Hz	
Power Cord	3 Pins,1.8m,Detachale,Non-Shielded	
Resolution	1280 x 1024 , V-Sync:75Hz	
Operation System	Windows XP	Windows Vista

Note:

1. According to pre-scan data, we determine the data shown in this test report, which reflects the worst-case data for each operation mode.

3.3 CONFIGURATION OF THE TESTED SYSTEM

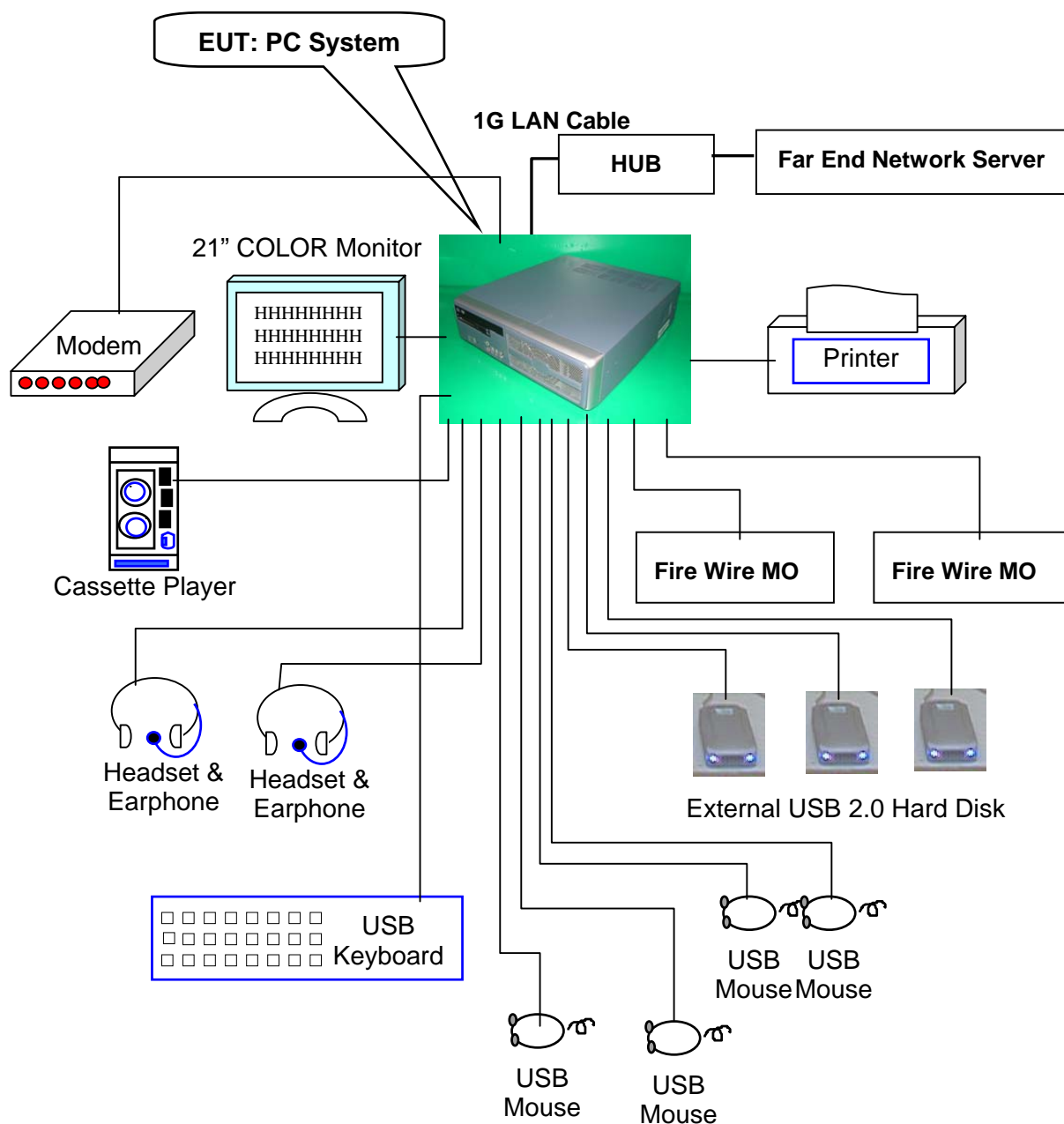
The FCC IDs/Types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

Device	No.	Configuration
Modem	M03-018	Manufacturer : ACEEX Model Number : 1414V Serial Number : 0046171 BSMI ID : N/A FCC ID : IFAXDM1414 Data Cable : T Type:RS232, Shielded, Detachable, 1.2m Power Cord : Non-Shielded, Detachable, 1.5m Line : Type:RJ11(4P2C), Detachable, 1.8m Phone : Type:RJ11(4P2C), Detachable, 1.8m
21" COLOR Monitor	M01-060	Manufacturer : COMPAQ Model Number : PE1143-41 Serial Number : N/A BSMI ID : R31708 FCC ID : N/A Data Cable : Shielded, detachable, 1.5m, VGA Cable Power Cord : 3Pin, Shielded, Detachable, 1.5m
Printer	P01-018	Manufacturer : Hewlett Packard Model Number : 2225C Serial Number : 2548S40842 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable Power Cord : Non-Shielded, Detachable, 1.8m
Cassette Recorder	R02-027	Manufacturer : PANASONIC Model Number : RQ-L11LT Serial Number : N/A BSMI ID : R31017 FCC ID : N/A Power Cord : N/A (Battery 1.5V*2)
Headset & Earphone	E01-088	Manufacturer : Good Vision Model Number : LY-MIC02 Serial Number : N/A Data Cable : Non-Shielded, Undetachable, 1.8 m Power Cord : N/A
Headset & Earphone	E01-106	Manufacturer : Good Vision Model Number : LY-MIC02 Serial Number : N/A Data Cable : Non-Shielded, Undetachable, 1.8 m Power Cord : N/A

Device	No.	Configuration
Fire Wire MO	1394-07	Manufacturer : FUJITSU Model Number : MDF3064EE Serial Number : 05001489 BSMI ID : 3882B648 Power Requirement : DC 8 to 30Vdc, 1.2A-0.3A, 9W (IEEE1394 Port) 15Vdc, 0.6A, 9W (AC/DC Adapter) Data Cable : 1.5m, Shielded, Detachable
Fire Wire MO	1394-08	Manufacturer : FUJITSU Model Number : MDF3064EE Serial Number : 05001578 BSMI ID : 3882B648 Power Requirement : DC 8 to 30Vdc, 1.2A-0.3A, 9W (IEEE1394 Port) 15Vdc, 0.6A, 9W (AC/DC Adapter) Data Cable : 1.5m, Shielded, Detachable
USB Mouse	M02-039	Manufacturer : Tremon Enterpnses Co., Ltd. Model Number : MUS3M Serial Number : N/A BSMI ID : N/A FCC ID : JKGMUS2S01 Data Cable : Shielded, Undetachable, 1.5m
USB Mouse	M02-040	Manufacturer : Tremon Enterpnses Co., Ltd. Model Number : MUS3M Serial Number : N/A BSMI ID : N/A FCC ID : JKGMUS2S01 Data Cable : Shielded, Undetachable, 1.5m
USB Mouse	M02-041	Manufacturer : Tremon Enterpnses Co., Ltd. Model Number : MUS3M Serial Number : N/A BSMI ID : N/A FCC ID : JKGMUS2S01 Data Cable : Shielded, Undetachable, 1.5m
USB Mouse	M02-042	Manufacturer : Logitech Model Number : M-UB48 Serial Number : LZB81900215 BSMI ID : 4872A001 FCC ID : DZL211137 Data Cable : Shielded, Undetachable, 1.5m
External USB 2.0 Hard Disk	U02-050	Manufacturer : Terasys Model Number : F12-UF Serial Number : A0100215-34P0030 BSMI ID : 4912A002 Data Cable : Shielded, detachable, 1.5m AC Power Adaptor : YHI M/N:YS-1015-U12A BSMI ID:4872A185 Input:AC IN:100V 50/60Hz 35VA Output: DC +12V ,1.25A

Device	No.	Configuration
External USB 2.0 Hard Disk	U02-051	Manufacturer : TERASYS Model Number : F12-UF Serial Number : A0100215-34P0030 BSMI ID : 4912A002 Data Cable : Shielded, detachable, 1.5m AC Power Adaptor : YHI M/N:YS-1015-U12A BSMI ID:4872A185 Input:AC IN:100V 50/60Hz 35VA Output: DC +12V ,1.25A
External USB 2.0 Hard Disk	U02-052	Manufacturer : TERASYS Model Number : F12-UF Serial Number : A0100215-34P0030 BSMI ID : 4912A002 Data Cable : Shielded, detachable, 1.5m AC Power Adaptor : YHI M/N:YS-1015-U12A BSMI ID:4872A185 Input:AC IN:100V 50/60Hz 35VA Output: DC +12V ,1.25A
USB Keyboard	K01-119	Manufacturer : Microsoft Model Number : 1047 BSMI ID : R31264 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.5 m
HUB	-----	Manufacturer : D-Link Model Number : DGS-1005D Power Cord : Non- Shielded, Detachable, 2.0m, 2pin
Far End Network Server	-----	Manufacturer : ASUS Model Number : AP160R Power Cord : Non- Shielded, Detachable, 1.8m

3.4 BLOCK DIAGRAM OF CONNECTIONS BETWEEN EUT AND SIMULATORS



3.5 TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-2005.

Radiated testing was performed at an antenna to EUT distance of 10 meters.

(For frequencies below 1000MHz)

Radiated testing was performed at an antenna to EUT distance of 3 meters.

(For frequencies above 1000MHz)

3.6 TEST FACILITY

Ambient conditions in the laboratory:

ITEMS	REQIORED
TEMPERATURE (°C)	15-35
HUMIDITY (%RH)	30-60
BAROMETRIC PRESSURE (mbar)	860-1060
FCC SITE DESCRIPTION	Aug. 10, 1995 /Aug. 25, 1998 File on FCC Engineering Laboratory Federal Communication Commission 7435 Oakland Mills Road Columbia, MD 21046 Reference 31040/SIT1300F2
NVLAP LAB. CODE	200085-0 United Stated Department of commerce National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program Accreditation on NVLAP effective through Sep. 30,2007 For CISPR 22, FCC Method and AS/NZS CISPR 22 Measurement.
Chinese National Laboratory Accreditation Certificate R.O.C.	Recognized by the Council of Chinese National Laboratory Accreditation and confirmed to meet the requirements of ISO/IEC 17025 also has been registered for fifteen items, and meet the requirements of the Article 4 of Measures Governing the Recognition both Approval of Designated Laboratory for Commodities Inspection and has been registered for four items within the field of Electrical Testing. Registration No.: 1082 Registration on CNLA effective through Sep. 19,2009.

4. CONDUCTED EMISSION MEASUREMENT

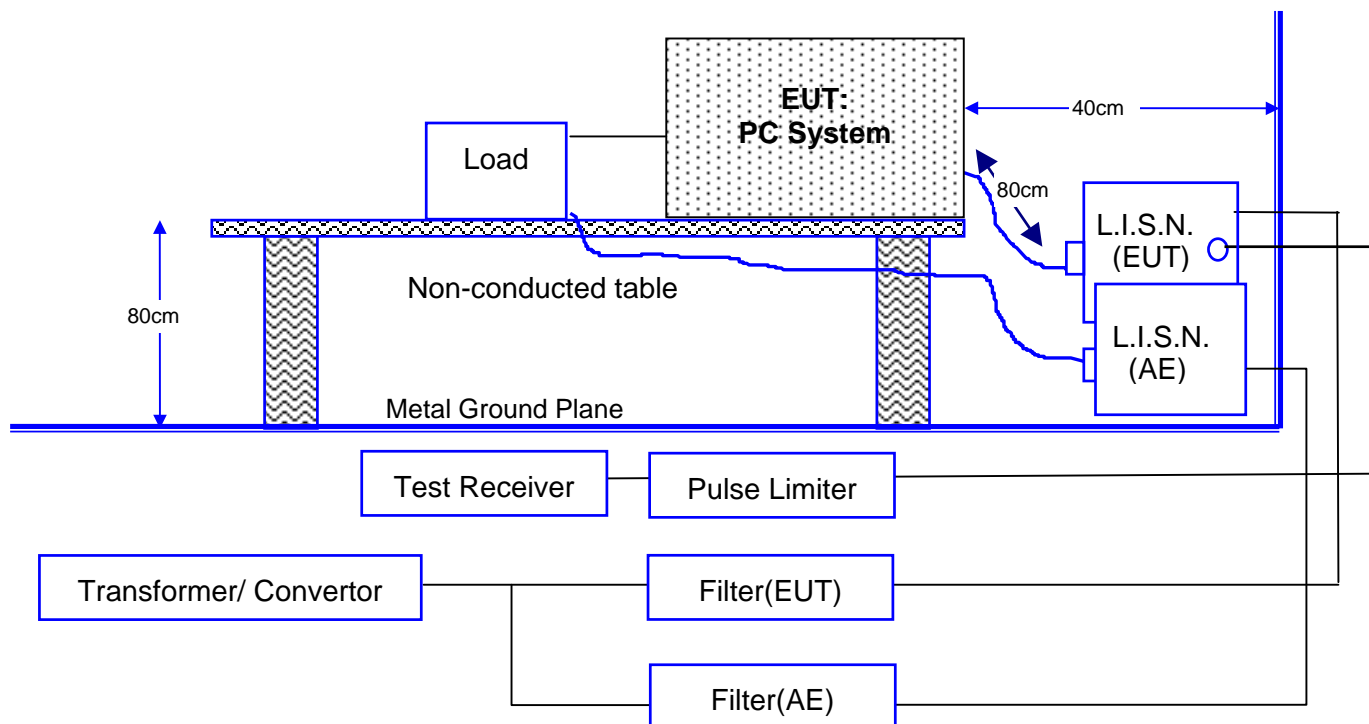
4.1 TEST EQUIPMENTS

The following test equipment are used during the conducted power line tests:

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal. Date
1	Test Receiver	R & S	ESCS30	825022/003	06/08/06
2	L.I.S.N.(EUT)	ROLF HEINE	NNB-2/16Z	98091	12/06/05
3	L.I.S.N.(AE)	ROLF HEINE	NNB-2/16Z	99042	12/20/05
4	Pulse Limiter	R & S	ESH3-Z2	357.8810.52	08/03/06
5	RF CABLE	GTK	N/A	GTK-E-A154-01	11/29/05
6	50 Ohm Terminator	GTK	N/A	GTK-E-A130-01	10/07/05
7	Shielded Room	GTK	N/A	B5	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

4.2 BLOCK DIAGRAM OF TEST SETUP



Note: This is a comprehensive setup diagram for Table-top EUT.

For Floor-standing EUT, the table will be removed with all others setup condition remain the same.

4.3 CONDUCTED EMISSION LIMIT

☐ FCC Limit

Frequency	Maximum RF Line Voltage			
	Class A		Class B	
MHz	μV	$dB\mu V$	μV	$dB\mu V$
0.45 to 1.705	1000	60.0	250	48.0
1.705 to 30	3000	69.5	250	48.0

Remarks : 1. RF Line Voltage ($dB\mu V$) = $20 \log$ RF Line Voltage (μV).
2. In the Above Table, the tighter limit applies at the band edges.

☒ CISPR Limit

Frequency	Maximum RF Line Voltage $dB(\mu V)$			
	Class A		Class B	
MHz	QUASI-PEAK	AVERAGE	QUASI-PEAK	AVERAGE
0.15 to 0.50	79	66	66 to 56	56 to 46
0.50 to 5.0	73	60	56	46
5.0 to 30	73	60	60	50

Remarks : In the Above Table, the tighter limit applies at the band edges.

4.4 EUT CONFIGURATION ON MEASUREMENT

The equipments that are listed 4.1 are installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

The device under test, installed in a representative system as described in section 4.2, was placed on a non-conductive table whose total height equal to 80cm. Powered from one L.I.S.N. which signal output to receiver, and the other peripherals was powered from another L.I.S.N. which signal output was terminated by 50Ω .

4.5 CONDUCTED EMISSION DATA

The measurement range of conducted emission, which is from **0.15 MHz to 30 MHz**, was investigated. All readings are quasi-peak and average values with a resolution Bandwidth of 9 KHz. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

4.6 OPERATING CONDITIONS OF THE EUT

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

1. Setup the EUT and simulators as shown on 4.2
2. Turn on the power of all equipments.
3. Boot the P.C. from Hard Disk and setup the video to windows XP and windows Vista OS, active all devices.
4. Adjust to appropriate video resolution.
5. Connected the modem and dial repeatedly.
6. The EUT exchange the information with the network via and telephone exchange.
7. Connect the Far End Network Server and run test program "test.bat".
8. The EUT exchange the information with the GesTek server via HUB.
9. Active other internal devices such as network function.
10. Run "DVD" & "Burnintest" test program under windows XP OS and windows Vista OS.
11. P.C. sent "H" pattern to monitor, make the "H" pattern full in the screen.
12. P.C. sent "H" pattern to parallel and serial port.
13. Repeat above steps.

4.7 CONDUCTED EMISSION MEASUREMENT RESULTS

Date of Test	September 21, 2006	Temperature	24
EUT	PC System	Humidity	53 %
Test Mode	Mode 1	Display Pattern	H Pattern

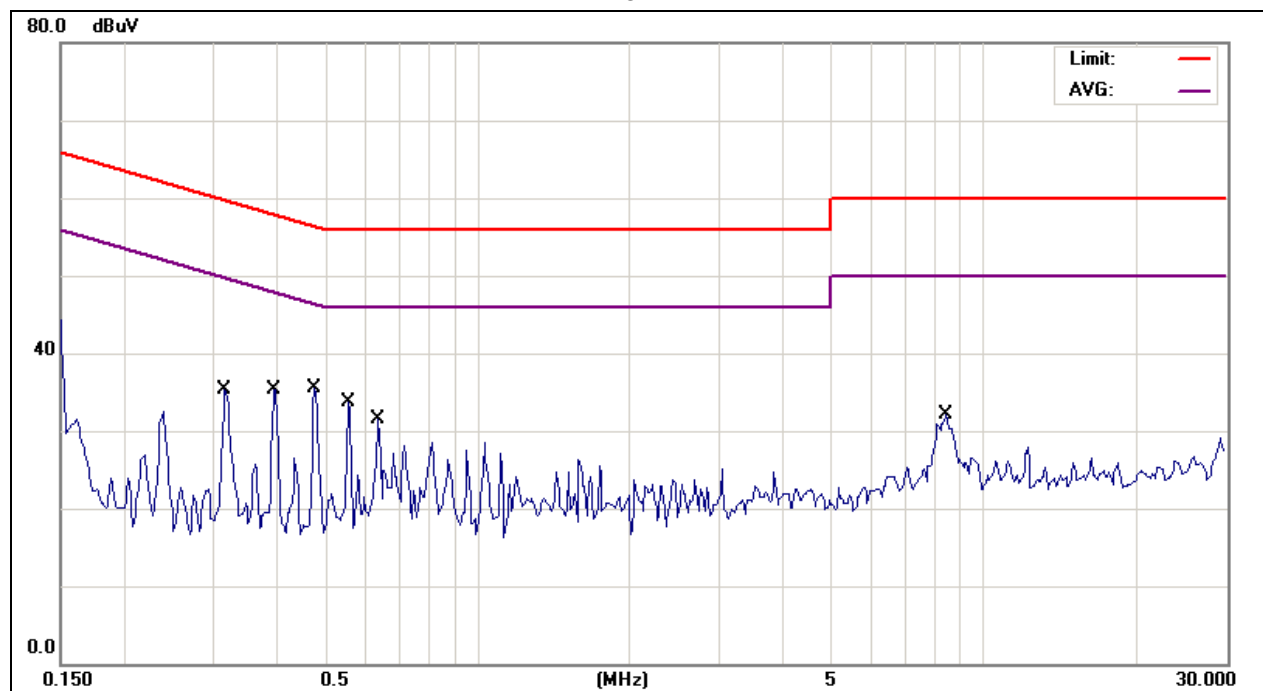
Line

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V	Limit dB μ V	Over Limit dB	Detector
1	0.3178	24.21	10.08	34.29	59.76	-25.47	QP
2	0.3178	24.62	10.08	34.70	49.76	-15.06	AVG
3	0.3983	25.18	10.06	35.24	57.89	-22.65	QP
4	0.3983	25.63	10.06	35.69	47.89	-12.20	AVG
5	0.4771	24.98	10.05	35.03	56.39	-21.36	QP
6	0.4771	25.13	10.05	35.18	46.39	-11.21	AVG
7	0.5571	23.36	10.03	33.39	56.00	-22.61	QP
8	0.5571	23.64	10.03	33.67	46.00	-12.33	AVG
9	0.6376	20.39	10.01	30.40	56.00	-25.60	QP
10	0.6376	20.71	10.01	30.72	46.00	-15.28	AVG
11	8.4658	20.12	10.21	30.33	60.00	-29.67	QP
12	8.4658	19.29	10.21	29.50	50.00	-20.50	AVG

Remarks :

1. All readings are Quasi-peak and Average values.
2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " " means that this data is the worse case measurement level.

Line



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "AVG" refers to the limit of Average.

Date of Test	September 21, 2006	Temperature	24
EUT	PC System	Humidity	53 %
Test Mode	Mode 1	Display Pattern	H Pattern

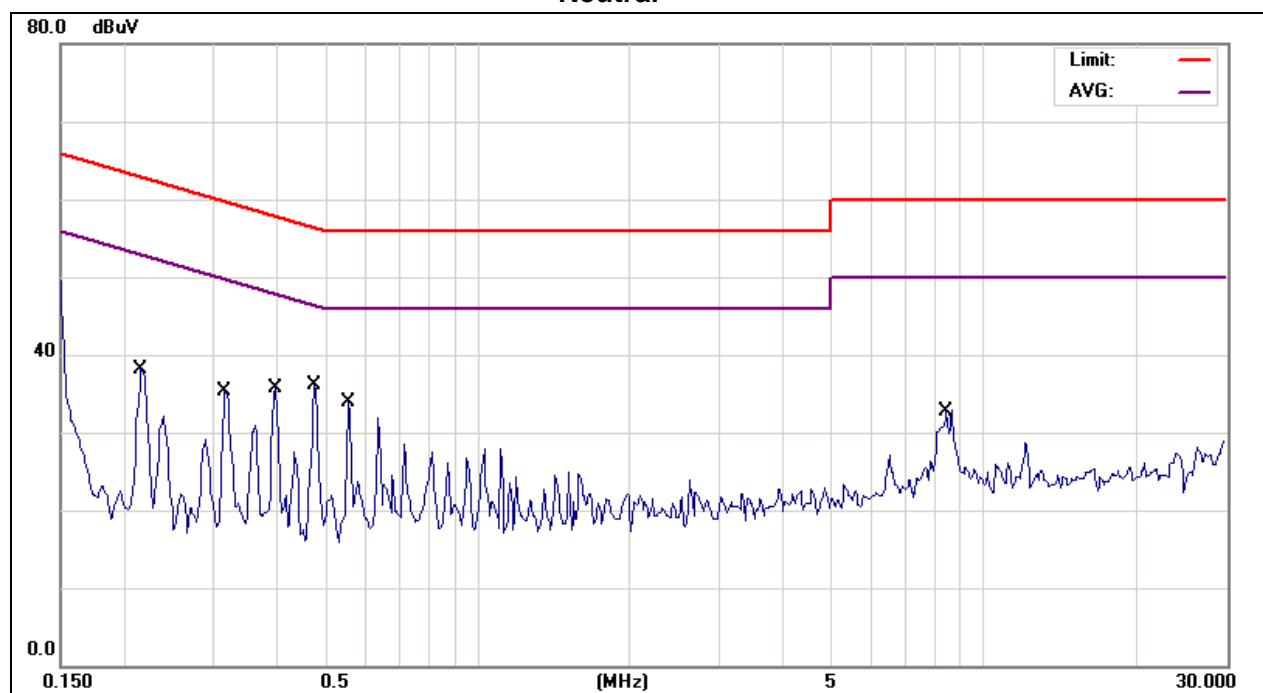
Neutral

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V	Limit dB μ V	Over Limit dB	Detector
1	0.2164	26.73	10.10	36.83	62.96	-26.13	QP
2	0.2164	26.42	10.10	36.52	52.96	-16.44	AVG
3	0.3185	24.31	10.08	34.39	59.75	-25.36	QP
4	0.3185	24.62	10.08	34.70	49.75	-15.05	AVG
5	0.3982	25.28	10.06	35.34	57.89	-22.55	QP
6	0.3982	25.63	10.06	35.69	47.89	-12.20	AVG
7	0.4777	25.08	10.05	35.13	56.38	-21.25	QP
8	0.4777	25.28	10.05	35.33	46.38	-11.05	AVG
9	0.5574	23.43	10.03	33.46	56.00	-22.54	QP
10	0.5574	23.74	10.03	33.77	46.00	-12.23	AVG
11	8.4158	20.75	10.28	31.03	60.00	-28.97	QP
12	8.4158	20.34	10.28	30.62	50.00	-19.38	AVG

Remarks :

1. All readings are Quasi-peak and Average values.
2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " " means that this data is the worse case measurement level.

Neutral



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "AVG" refers to the limit of Average.

5. RADIATED EMISSION MEASUREMENT

5.1 TEST EQUIPMENT

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

Radiated emission measurement was performed at: ☐ Site #1 ☐ Site #2 ☒ Site #3 ☐ Site #4

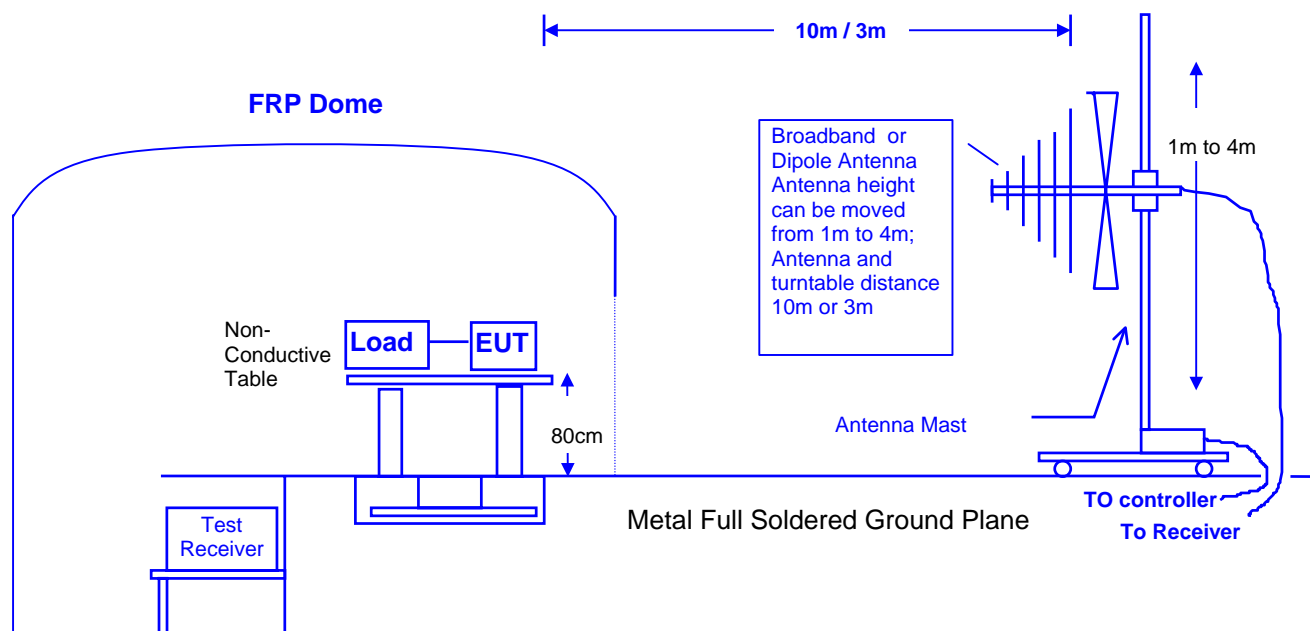
Item	Instrument	Manufacturer	Model	Serial No.	Last Cal. Date
1	Test Receiver	R & S	ESVS30	829007/014	01/19/06
2	Spectrum Analyzer	ADVANTEST	R3172	150101278	03/15/06
3	Pre-Amplifier	HP	8447D	2944A08272	09/12/06
4	Pre-Amplifier	HP	8449B	3008A01264	06/14/06
5	BILOG Antenna	SCHAFFNER	CBL6112B	2620	11/24/06
6	Horn Antenna	ELECTRO-METRICS	EM-6961	103329	06/14/06
7	RF Cable	GTK	N/A	GTK-E-A316-01	11/08/06
8	Open Site	GTK	N/A	B1	11/20/06

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

5.2 OPEN TEST SITE SETUP DIAGRAM

Note: This is a representative setup diagram for Table-top EUT.

For Floor-standing EUT, the table will be removed with all others setup condition remain the same.



5.3 RADIATED EMISSION LIMIT

☒ FCC Class B Limit at 3m

Frequency	Distance	Field Strength	
MHz	Meter	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0

Note: The frequencies above 1000MHz, as measured using instrumentation with a peak detector function was corresponding to 20dB above the maximum permitted average limit.

(Refer **47CFR Ch. 1 (10-1-98 Edition §15.35(b))**)

☐ FCC Class A Limit at 10m

Frequency	Distance	Field Strength	
MHz	Meter	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 to 88	10	90	39.0
88 to 216	10	150	43.5
216 to 960	10	210	46.4
Above 960	10	300	49.5

Remark :1. The tighter limit shall apply at the edge between two frequency bands.

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.

☒ CISPR Class B Limit at 10m

Frequency	Distance	Field Strength
MHz	Meter	$\text{dB}(\mu\text{V/m})$
30 to 230	10	30
230 to 1000	10	37

Remark :1. The tighter limit shall apply at the edge between two frequency bands.

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.

5.4 EUT CONFIGURATION

The equipment which is listed 5.1 are installed on Radiated Emission Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

The device under test, installed in a representative system as described in section 5.2, was placed on a non-conductive table whose total height equaled 80 cm. This table can be rotated 360 degree. The measurement antenna was mounted to a non-conductive mast capable of moving the antenna vertically. Antenna height was varied from 1 meter to 4 meters and the system under test was rotated from 0 degree through 360 degrees relative to the antenna position and polarization (Horizontal and Vertical). Also the I/O cable position was investigated to find the maximum emission condition.

5.5 OPERATING CONDITION OF EUT

Same as section 4.6.

5.6 RADIATED EMISSION DATA

The measurement range of radiated emission, which is from **30 MHz to 18 GHz**, was investigated. All readings are quasi-peak values with a resolution Bandwidth of 120 KHz. The initial step in collecting radiated emission data is a spectrum analyzer peak scans of the measurement range for all the test modes and then use test receiver for final measurement. Then the worst modes were reported the following data pages.

5.7 RADIATED EMISSIONS MEASUREMENT RESULTS

Date of Test	February 01, 2007	Temperature	25 deg/C
EUT	PC System	Humidity	67 %RH
Working Cond.	Mode 1	Display Pattern	H Pattern
Antenna distance	10m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V/m	Limit dB μ V/m	Over Limit dB	Detector
1	84.0513	40.58	-17.53	23.05	30.00	-6.95	QP
2	109.9522	37.24	-12.87	24.37	30.00	-5.63	QP
3	117.8567	36.81	-12.35	24.46	30.00	-5.54	QP
4	137.5235	37.95	-12.58	25.37	30.00	-4.63	QP
5	150.8631	38.96	-12.88	26.08	30.00	-3.92	QP
6	171.0258	40.83	-13.19	27.64	30.00	-2.36	QP
7	183.0265	40.88	-13.24	27.64	30.00	-2.36	QP
8	192.1564	39.65	-13.11	26.54	30.00	-3.46	QP
9	240.0736	42.52	-10.34	32.18	37.00	-4.82	QP
10	294.9635	41.05	-7.99	33.06	37.00	-3.94	QP
11	374.1456	37.58	-6.24	31.34	37.00	-5.66	QP
12	480.0355	34.85	-4.36	30.49	37.00	-6.51	QP
13	500.0237	36.14	-4.02	32.12	37.00	-4.88	QP
14	550.0459	33.81	-3.14	30.67	37.00	-6.33	QP
15	600.0178	35.96	-2.25	33.71	37.00	-3.29	QP
16	648.0248	32.58	-1.81	30.77	37.00	-6.23	QP
17	720.0687	32.74	-1.01	31.73	37.00	-5.27	QP
18	884.6985	32.83	1.57	34.40	37.00	-2.60	QP
19	982.9836	28.00	2.70	30.70	37.00	-6.30	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " " means that this data is the worse case measurement level.

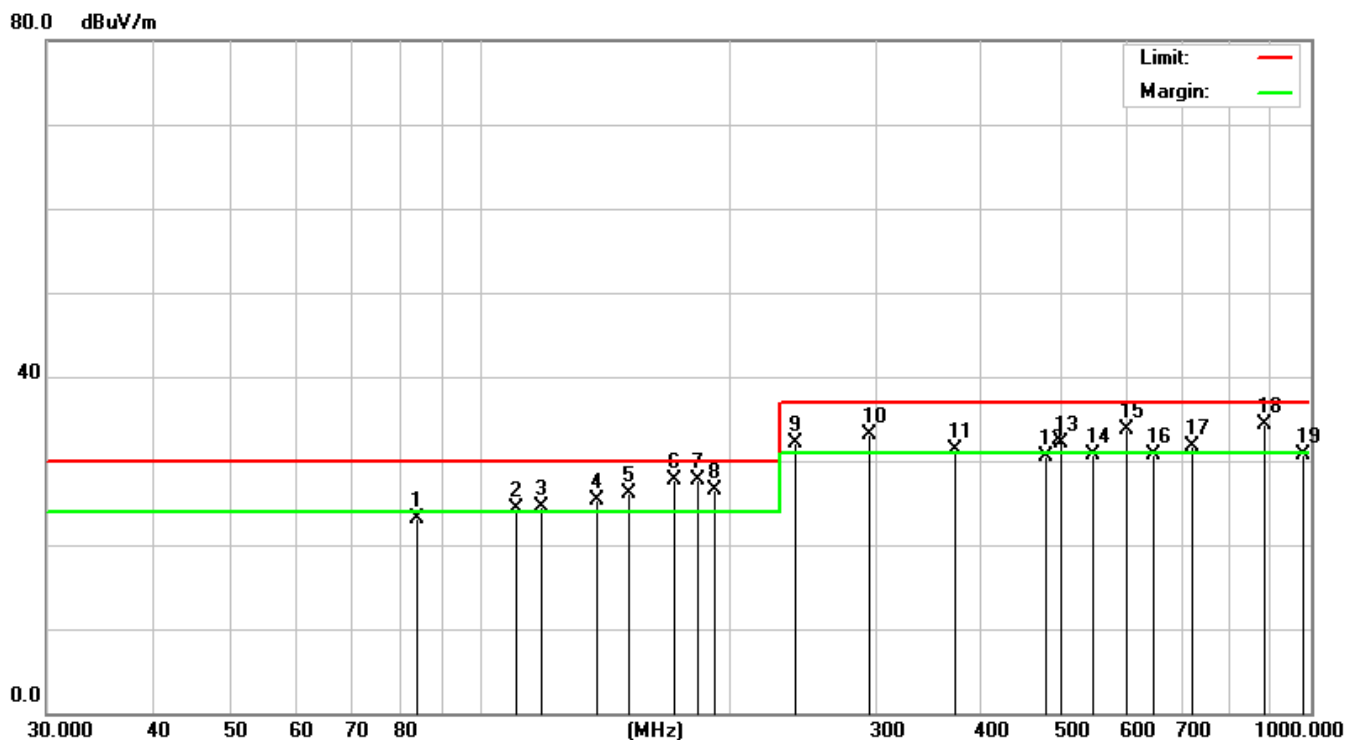
Date of Test	February 01, 2007	Temperature	25 deg/C
EUT	PC System	Humidity	67 %RH
Working Cond.	Mode 1	Display Pattern	H Pattern
Antenna distance	10m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V/m	Limit dB μ V/m	Over Limit dB	Detector
1	118.5646	38.57	-12.30	26.27	30.00	-3.73	QP
2	120.0657	36.58	-12.23	24.35	30.00	-5.65	QP
3	150.5984	40.23	-12.87	27.36	30.00	-2.64	QP
4	169.9513	38.12	-13.18	24.94	30.00	-5.06	QP
5	183.2547	40.26	-13.24	27.02	30.00	-2.98	QP
6	192.0322	39.52	-13.12	26.40	30.00	-3.60	QP
7	240.0566	40.24	-10.34	29.90	37.00	-7.10	QP
8	250.5981	39.83	-9.67	30.16	37.00	-6.84	QP
9	288.8955	38.61	-8.21	30.40	37.00	-6.60	QP
10	360.8585	37.82	-6.52	31.30	37.00	-5.70	QP
11	408.5565	36.92	-5.56	31.36	37.00	-5.64	QP
12	480.2247	34.24	-4.36	29.88	37.00	-7.12	QP
13	550.0126	35.14	-3.14	32.00	37.00	-5.00	QP
14	720.0554	32.81	-1.01	31.80	37.00	-5.20	QP
15	912.1769	29.36	1.92	31.28	37.00	-5.72	QP
16	960.0568	30.24	2.45	32.69	37.00	-4.31	QP

Remarks:

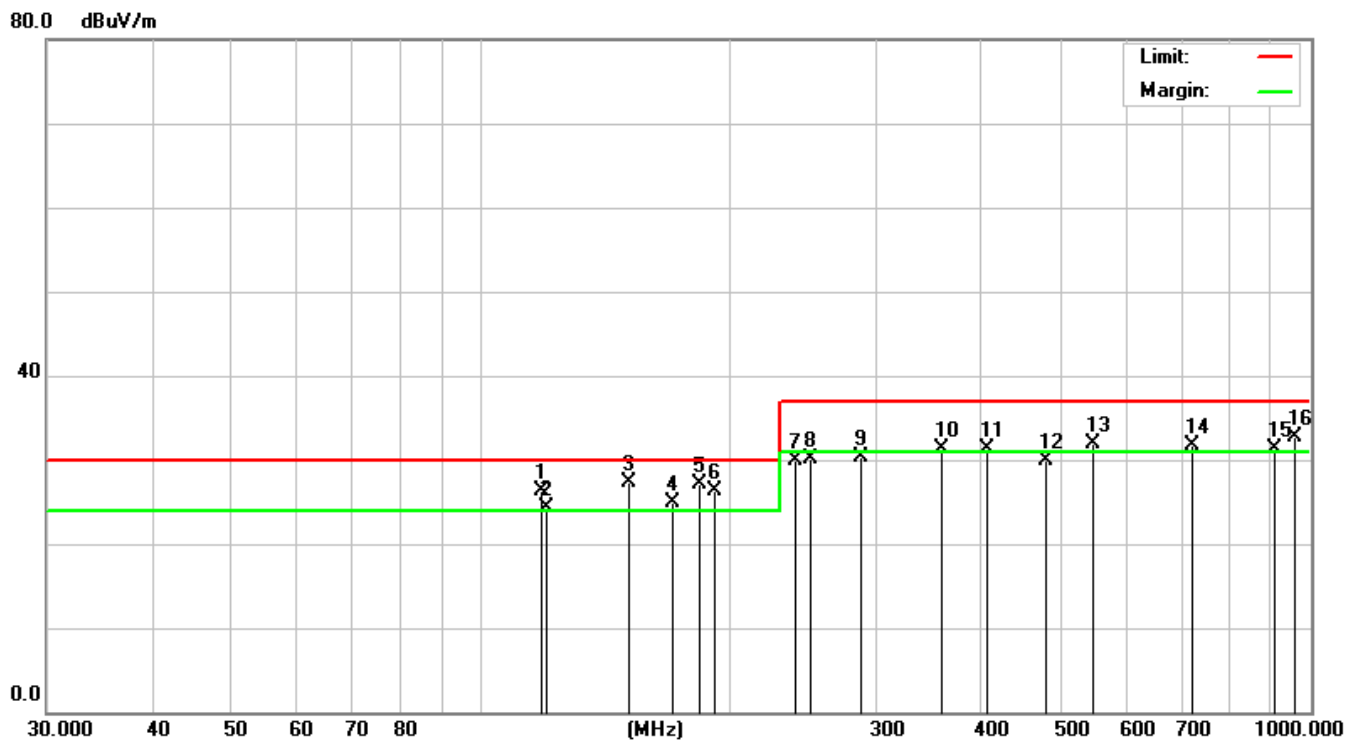
1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " " means that this data is the worse case measurement level.

Horizontal



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "Margin" refers to the data under 6dB.

Vertical



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "Margin" refers to the data under 6dB.

Date of Test	January 17, 2007	Temperature	25 deg/C
EUT	PC System	Humidity	67 %RH
Working Cond.	Mode 2	Display Pattern	H Pattern
Antenna distance	10m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V/m	Limit dB μ V/m	Over Limit dB	Detector
1	83.9370	39.30	-17.54	21.76	30.00	-8.24	QP
2	109.9633	36.50	-12.87	23.63	30.00	-6.37	QP
3	117.9560	37.30	-12.35	24.95	30.00	-5.05	QP
4	137.6178	36.30	-12.59	23.71	30.00	-6.29	QP
5	150.7290	38.30	-12.87	25.43	30.00	-4.57	QP
6	171.0680	40.80	-13.19	27.61	30.00	-2.39	QP
7	183.4885	40.60	-13.24	27.36	30.00	-2.64	QP
8	192.0150	39.20	-13.12	26.08	30.00	-3.92	QP
9	240.0185	41.00	-10.34	30.66	37.00	-6.34	QP
10	263.8255	39.74	-9.16	30.58	37.00	-6.42	QP
11	294.8930	41.20	-7.99	33.21	37.00	-3.79	QP
12	336.0295	37.20	-7.05	30.15	37.00	-6.85	QP
13	374.8150	36.80	-6.23	30.57	37.00	-6.43	QP
14	480.0480	33.70	-4.36	29.34	37.00	-7.66	QP
15	500.0160	36.80	-4.02	32.78	37.00	-4.22	QP
16	550.0180	32.80	-3.14	29.66	37.00	-7.34	QP
17	600.0590	35.10	-2.25	32.85	37.00	-4.15	QP
18	648.0410	30.80	-1.81	28.99	37.00	-8.01	QP
19	720.0675	31.68	-1.01	30.67	37.00	-6.33	QP
20	884.6660	30.30	1.57	31.87	37.00	-5.13	QP
21	982.9810	27.80	2.70	30.50	37.00	-6.50	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " " means that this data is the worse case measurement level.

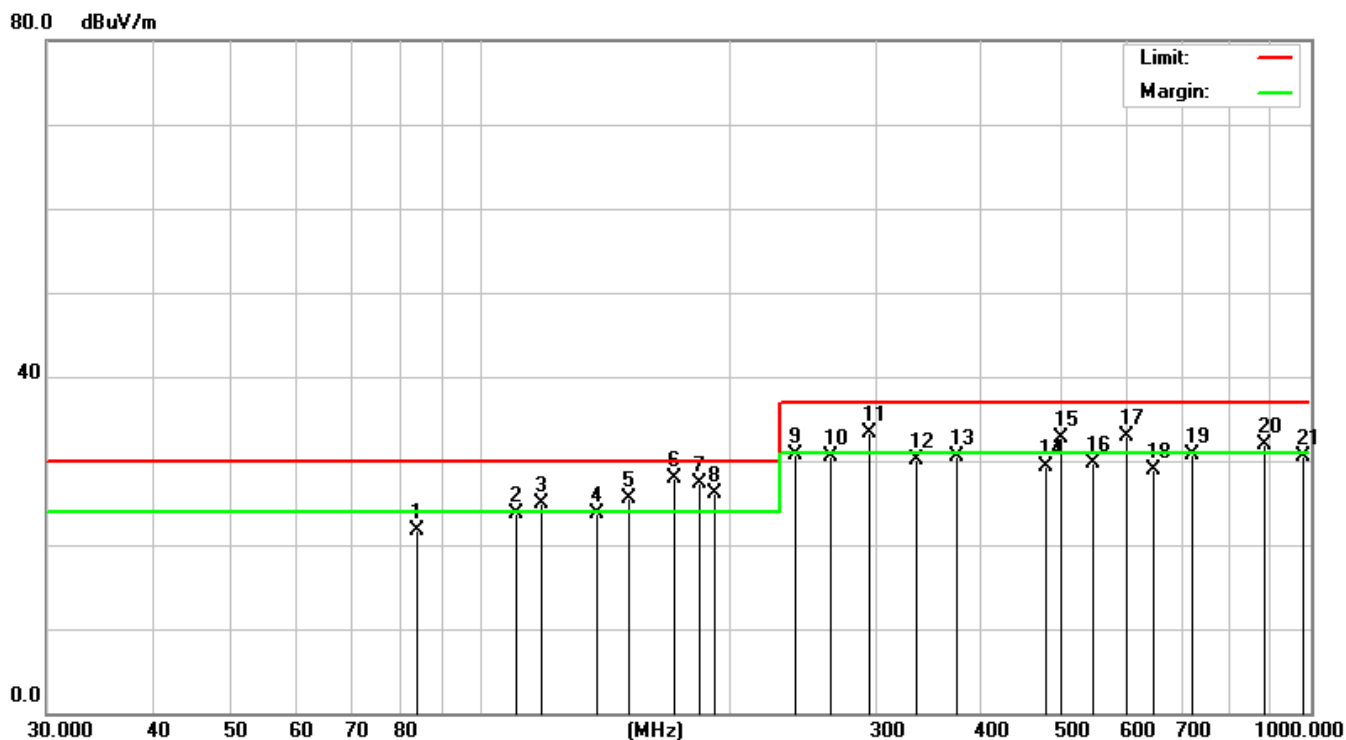
Date of Test	January 17, 2007	Temperature	25 deg/C
EUT	PC System	Humidity	67 %RH
Working Cond.	Mode 2	Display Pattern	H Pattern
Antenna distance	10m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V/m	Limit dB μ V/m	Over Limit dB	Detector
1	117.9565	38.20	-12.35	25.85	30.00	-4.15	QP
2	120.4147	35.80	-12.22	23.58	30.00	-6.42	QP
3	150.0055	40.00	-12.85	27.15	30.00	-2.85	QP
4	170.3855	37.30	-13.19	24.11	30.00	-5.89	QP
5	183.4895	40.10	-13.24	26.86	30.00	-3.14	QP
6	192.0160	38.50	-13.12	25.38	30.00	-4.62	QP
7	240.0203	39.50	-10.34	29.16	37.00	-7.84	QP
8	250.0083	38.30	-9.69	28.61	37.00	-8.39	QP
9	288.0200	37.80	-8.25	29.55	37.00	-7.45	QP
10	360.0280	36.80	-6.54	30.26	37.00	-6.74	QP
11	408.0313	37.80	-5.56	32.24	37.00	-4.76	QP
12	480.0457	33.80	-4.36	29.44	37.00	-7.56	QP
13	550.0175	33.11	-3.14	29.97	37.00	-7.03	QP
14	720.0723	31.58	-1.01	30.57	37.00	-6.43	QP
15	912.1790	27.80	1.92	29.72	37.00	-7.28	QP
16	960.0945	29.11	2.45	31.56	37.00	-5.44	QP

Remarks:

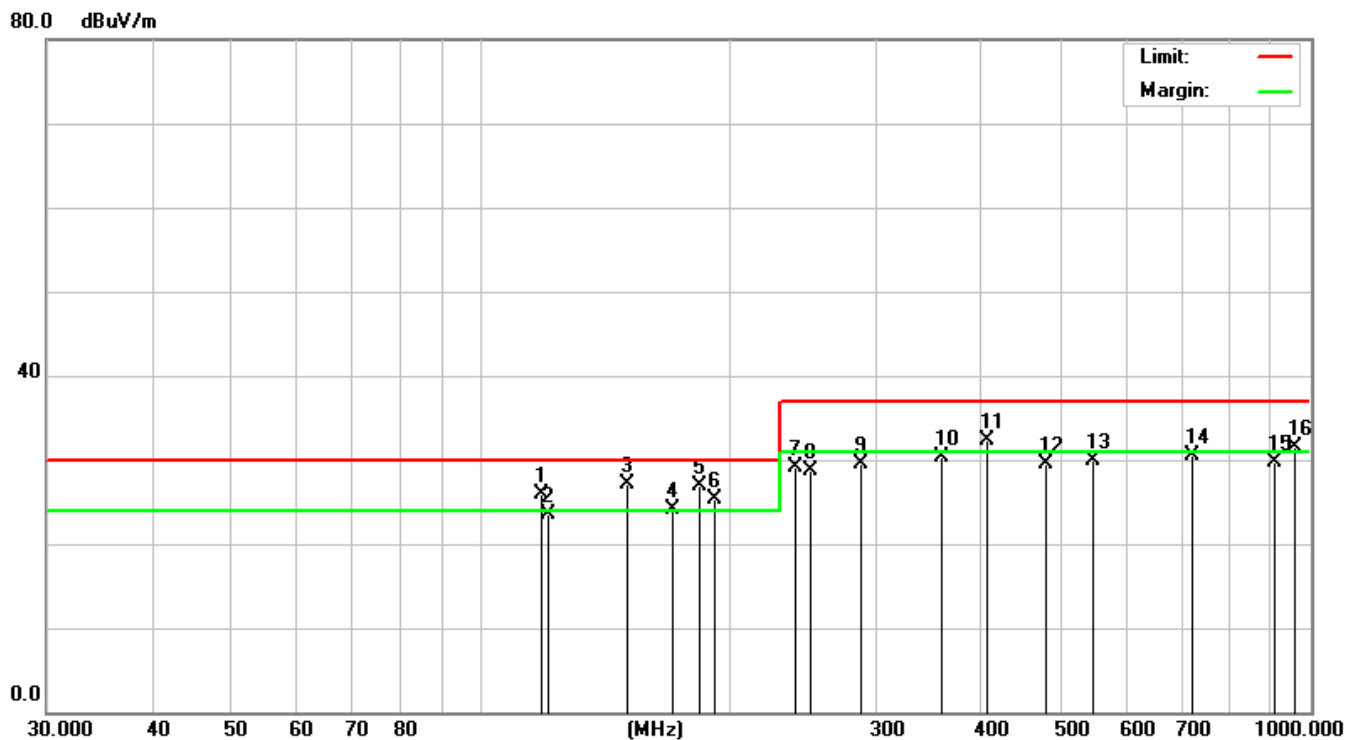
1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. " " means that this data is the worse case measurement level.

Horizontal



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "Margin" refers to the data under 6dB.

Vertical



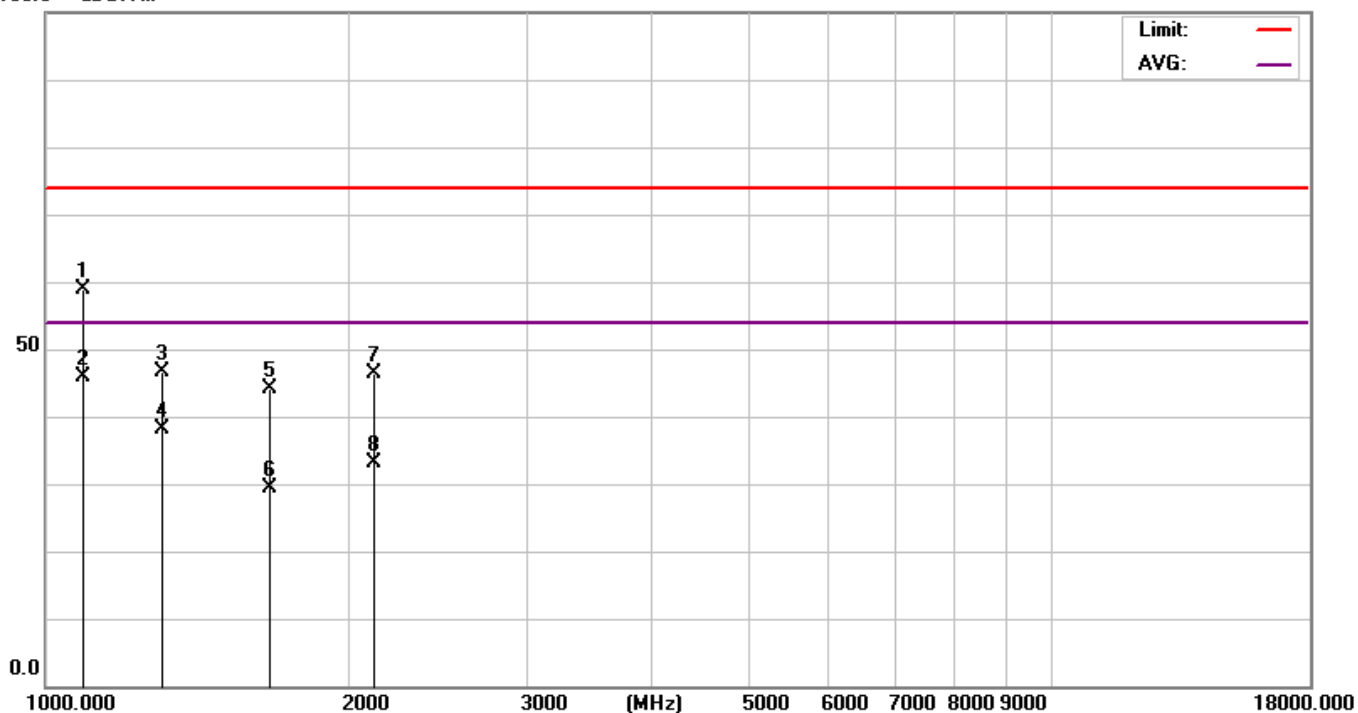
Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "Margin" refers to the data under 6dB.

Date of Test	January 03, 2007	Temperature	25 deg/C
EUT	PC System	Humidity	67 %RH
Working Cond.	Mode 1	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	1GHz~18GHz

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V/m	Limit dB μ V/m	Over Limit dB	Detector
1	1090.0000	66.61	-7.79	58.82	74.00	-15.18	peak
2	1090.0000	53.63	-7.79	45.84	54.00	-8.16	AVG
3	1299.8200	53.34	-6.62	46.72	74.00	-27.28	peak
4	1299.8200	44.80	-6.62	38.18	54.00	-15.82	AVG
5	1665.0600	48.53	-4.38	44.15	74.00	-29.85	peak
6	1665.0600	33.85	-4.38	29.47	54.00	-24.53	AVG
7	2113.0600	48.15	-1.69	46.46	74.00	-27.54	peak
8	2113.0600	34.93	-1.69	33.24	54.00	-20.76	AVG

Remarks:

1. All Readings are Peak and Average value.
2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.

100.0 dB μ V/m

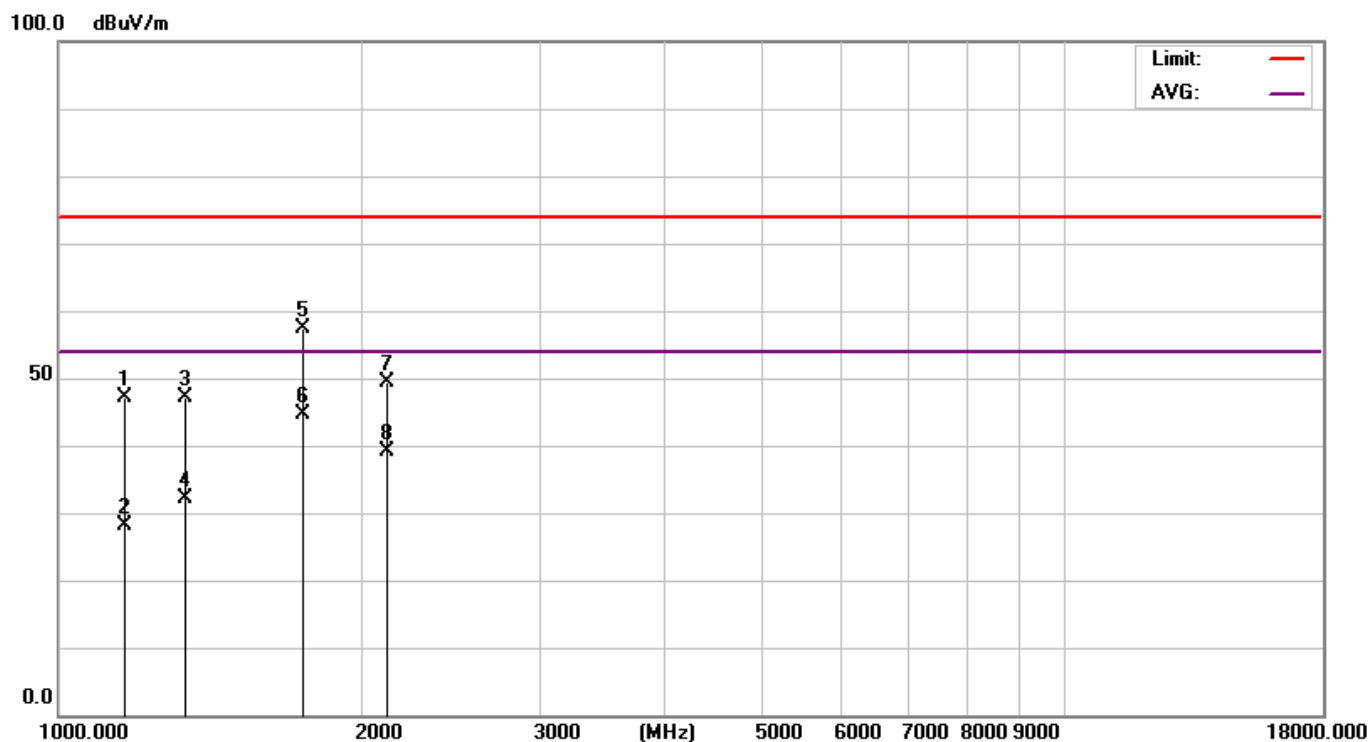
Remark: 1. The "Limit" in right-up corner in above diagram refers to peak ; "AVG" refers to the limit of Average.

Date of Test	January 03, 2007	Temperature	25 deg/C
EUT	PC System	Humidity	67 %RH
Working Cond.	Mode 1	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	1GHz~18GHz

No.	Frequency MHz	Reading Level dBμV	Factor dB	Measurement dBμV/m	Limit dBμV/m	Over Limit dB	Detector
1	1159.0000	54.60	-7.41	47.19	74.00	-26.81	peak
2	1159.0000	35.47	-7.41	28.06	54.00	-25.94	AVG
3	1329.2800	53.68	-6.46	47.22	74.00	-26.78	peak
4	1329.2800	38.67	-6.46	32.21	54.00	-21.79	AVG
5	1748.0200	61.10	-3.82	57.28	74.00	-16.72	peak
6	1748.0200	48.57	-3.82	44.75	54.00	-9.25	AVG
7	2112.4000	51.16	-1.70	49.46	74.00	-24.54	peak
8	2112.4000	40.85	-1.70	39.15	54.00	-14.85	AVG

Remarks:

1. All Readings are Peak and Average value.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.



Remark: 1. The "Limit" in right-up corner in above diagram refers to peak ; "AVG" refers to the limit of Average.

Date of Test	January 19, 2007	Temperature	25 deg/C
EUT	PC System	Humidity	67 %RH
Working Cond.	Mode 2	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	1GHz~18GHz

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V/m	Limit dB μ V/m	Over Limit dB	Detector
1	1089.5000	58.14	-7.80	50.34	74.00	-23.66	peak
2	1089.5000	45.32	-7.80	37.52	54.00	-16.48	AVG
3	1158.9000	58.27	-7.41	50.86	74.00	-23.14	peak
4	1158.9000	43.61	-7.41	36.20	54.00	-17.80	AVG
5	1330.1000	53.11	-6.45	46.66	74.00	-27.34	peak
6	1330.1000	39.49	-6.45	33.04	54.00	-20.96	AVG
7	2111.9000	51.10	-1.70	49.40	74.00	-24.60	peak
8	2111.9000	39.44	-1.70	37.74	54.00	-16.26	AVG

Remarks:

1. All Readings are Peak and Average value.
2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.

100.0 dB μ V/m

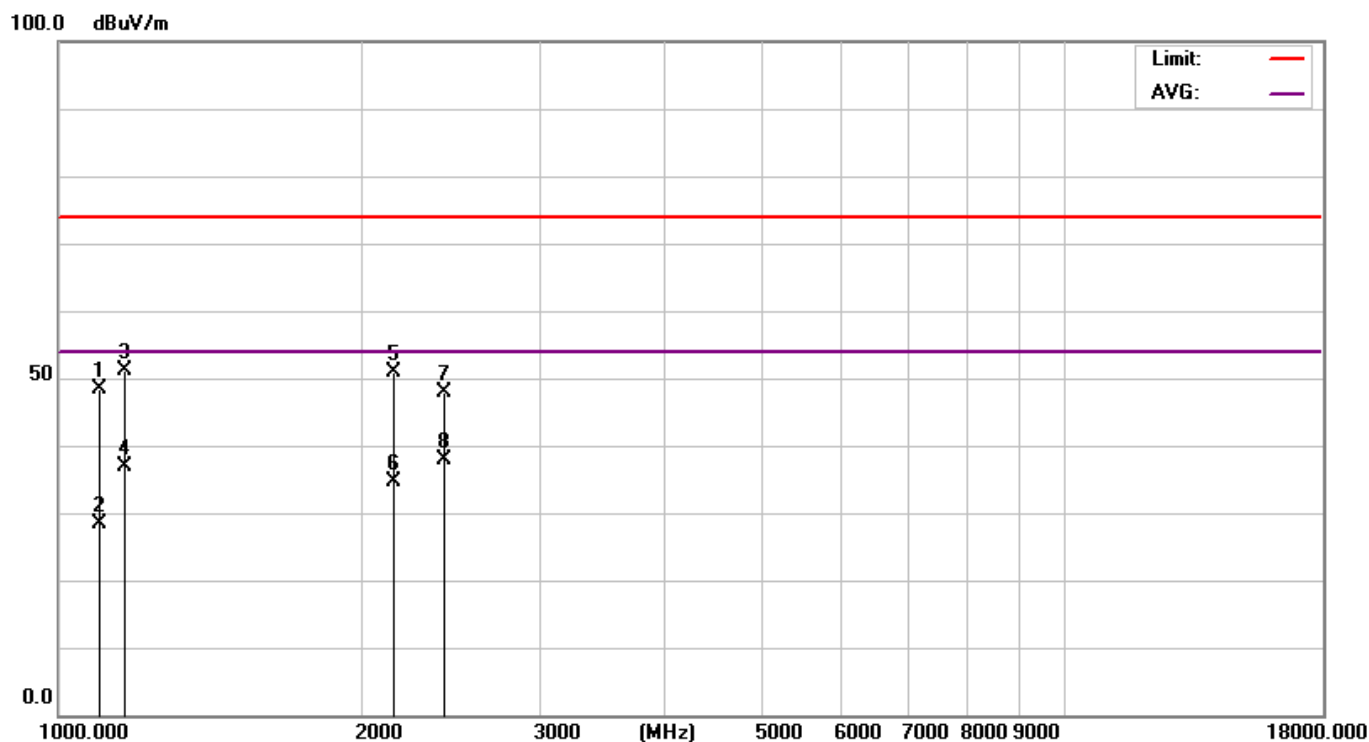
Remark: 1. The "Limit" in right-up corner in above diagram refers to peak ; "AVG" refers to the limit of Average.

Date of Test	January 19, 2007	Temperature	25 deg/C
EUT	PC System	Humidity	67 %RH
Working Cond.	Mode 2	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	1GHz~18GHz

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V/m	Limit dB μ V/m	Over Limit dB	Detector
1	1090.7000	56.22	-7.79	48.43	74.00	-25.57	peak
2	1090.7000	36.24	-7.79	28.45	54.00	-25.55	AVG
3	1158.9000	58.52	-7.41	51.11	74.00	-22.89	peak
4	1158.9000	44.19	-7.41	36.78	54.00	-17.22	AVG
5	2147.7000	52.45	-1.57	50.88	74.00	-23.12	peak
6	2147.7000	36.10	-1.57	34.53	54.00	-19.47	AVG
7	2409.8200	48.52	-0.62	47.90	74.00	-26.10	peak
8	2409.8200	38.60	-0.62	37.98	54.00	-16.02	AVG

Remarks:

1. All Readings are Peak and Average value.
2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.



Remark: 1. The "Limit" in right-up corner in above diagram refers to peak ; "AVG" refers to the limit of Average.

6. PHOTOGRAPHS FOR TEST

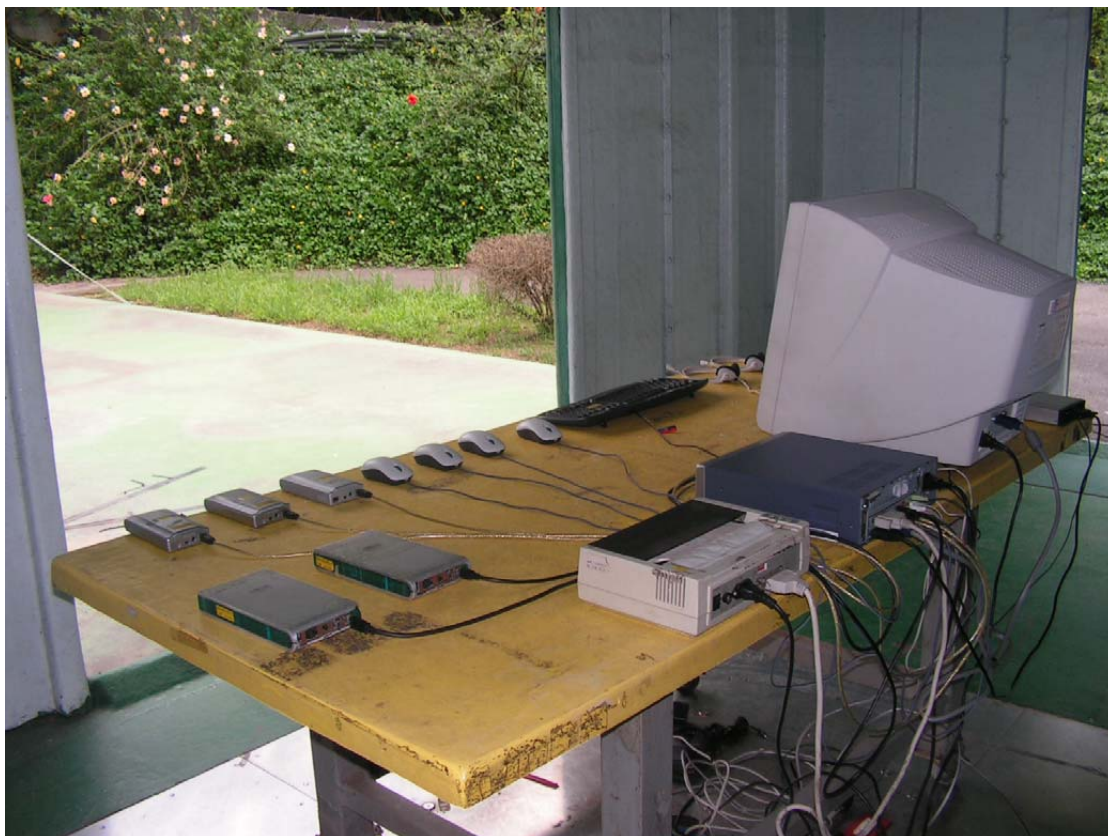
6.1 TEST PHOTOGRAPHS FOR CONDUCTION

Mode 1



6.2 TEST PHOTOGRAPHS FOR RADIATED

Mode 1



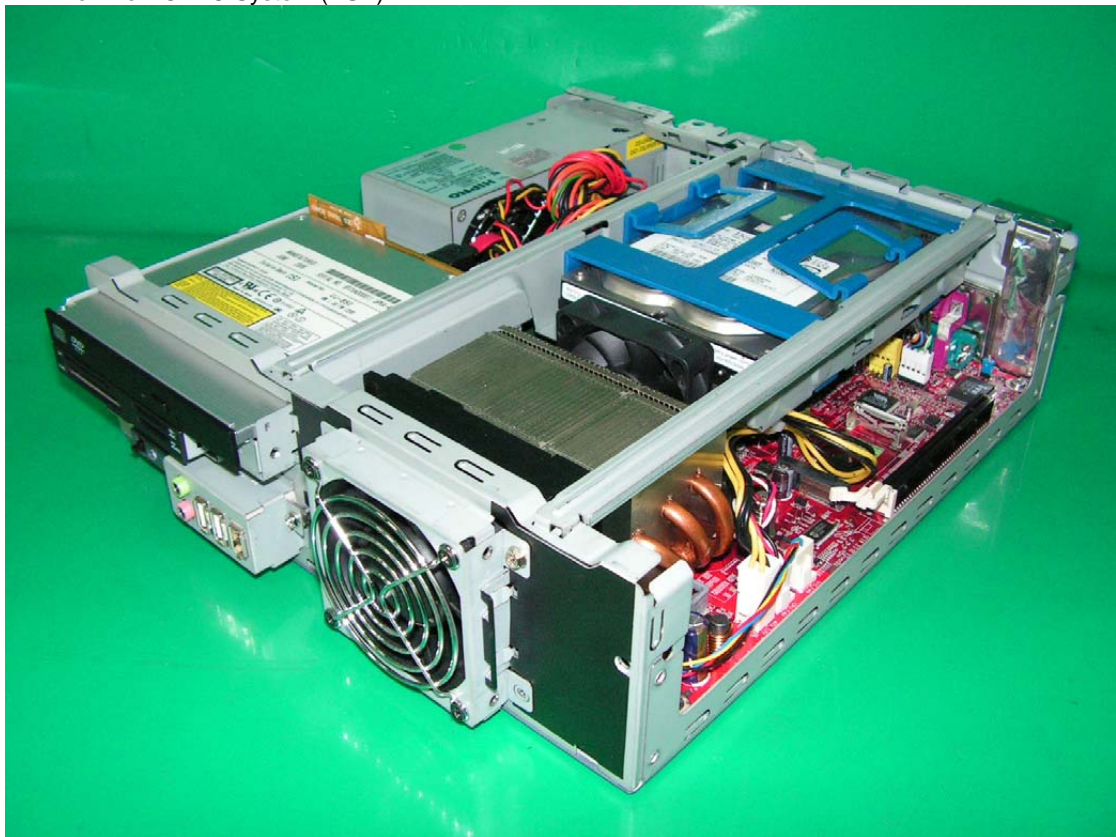
Mode 2

7. PHOTOGRAPHS FOR PRODUCT

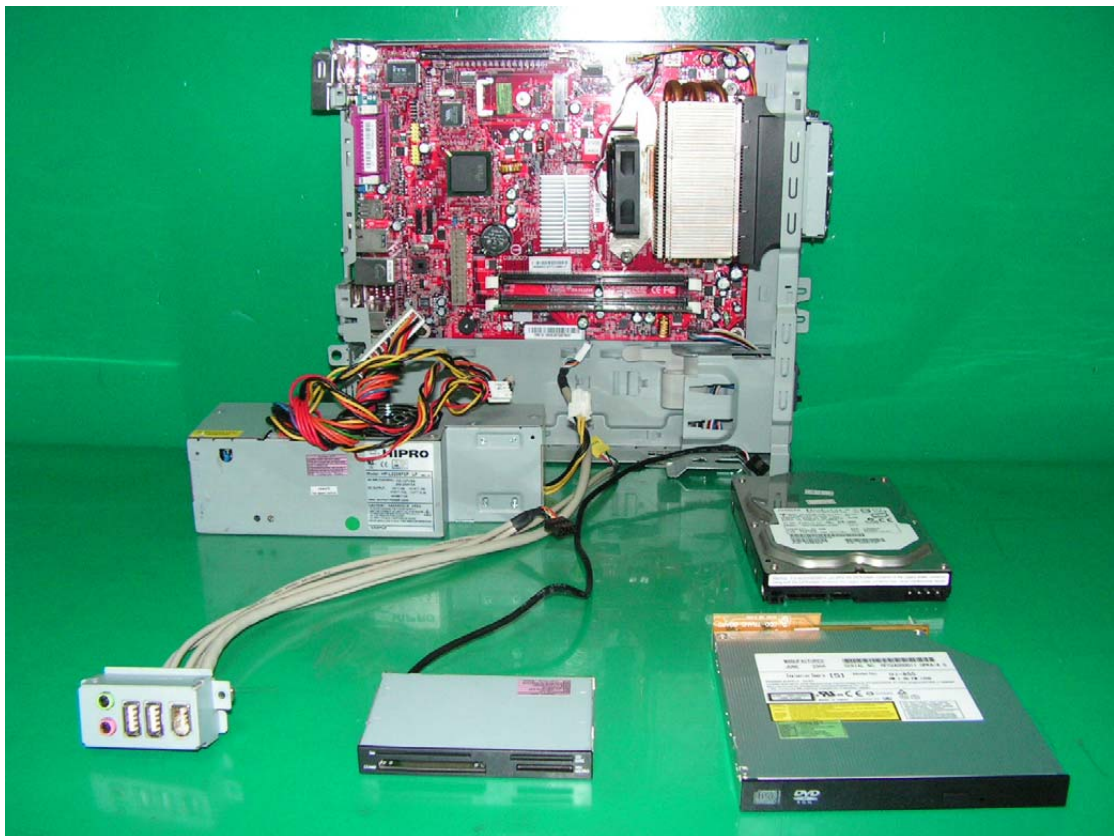
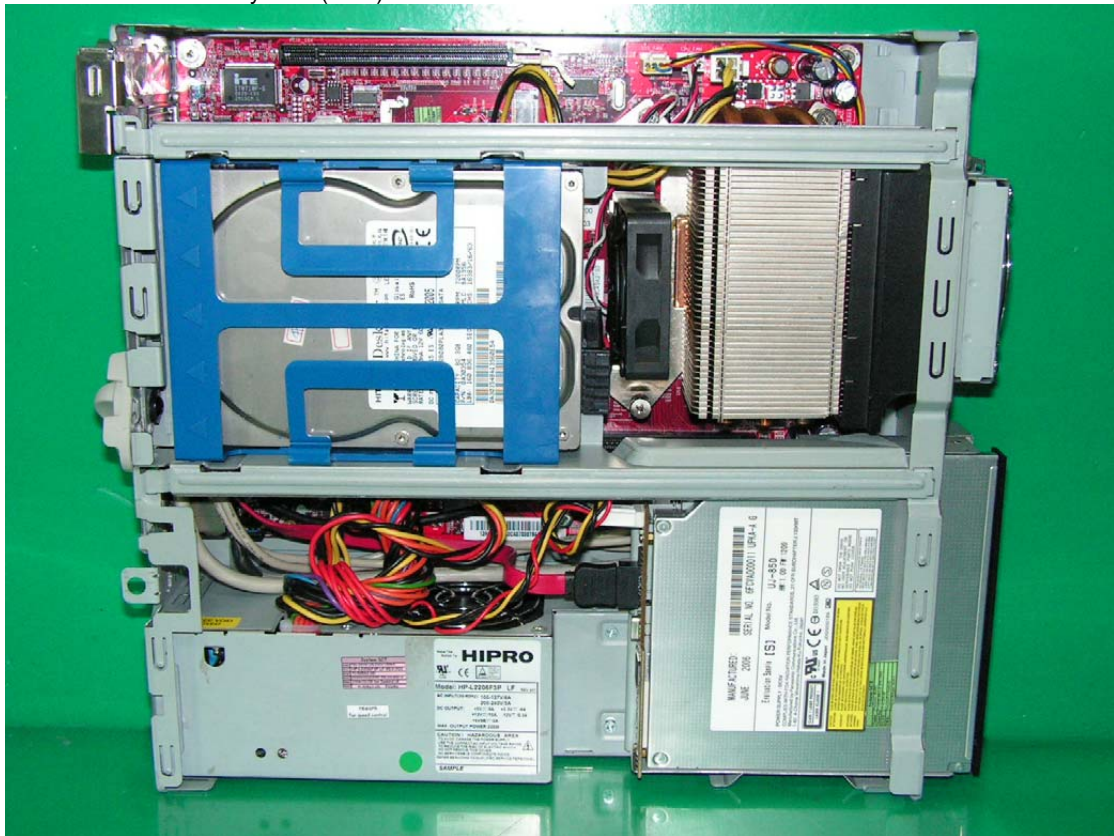
1. Front View Of PC System (EUT)
2. Back View Of PC System (EUT)



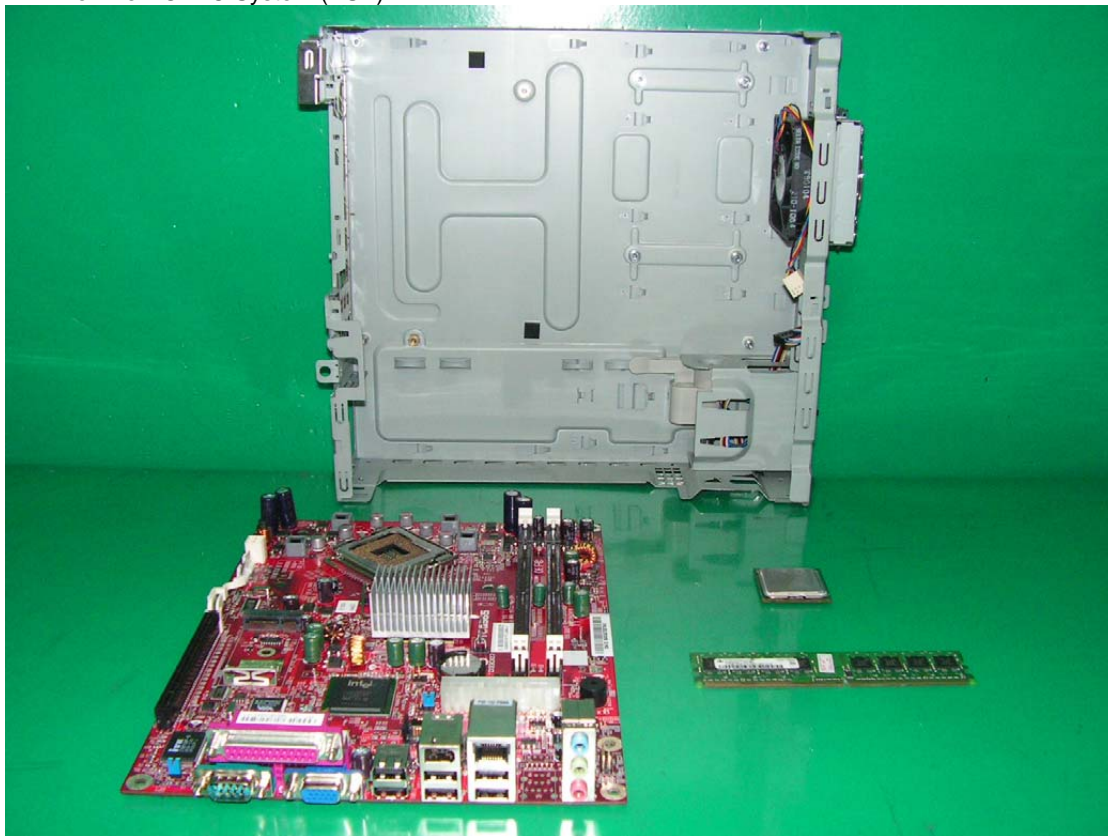
3. Inner View Of PC System (EUT)
4. Inner View Of PC System (EUT)



5. Inner View Of PC System (EUT)
6. Inner View Of PC System (EUT)

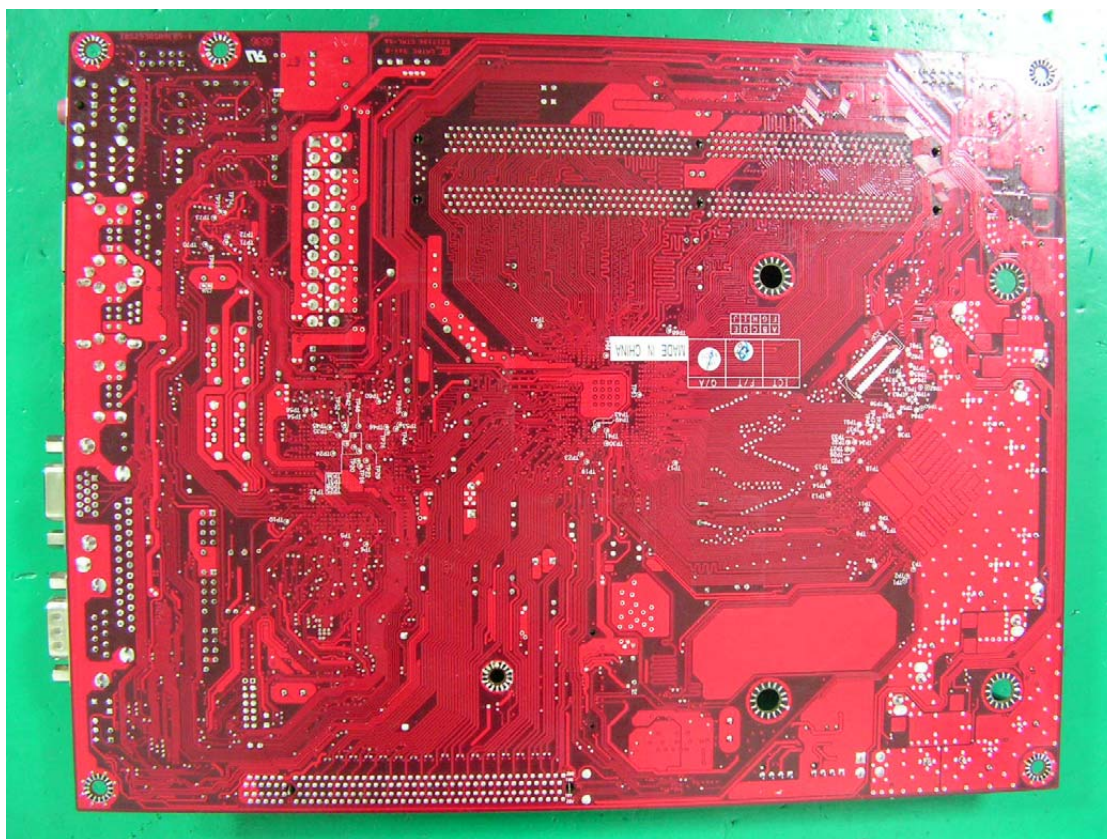
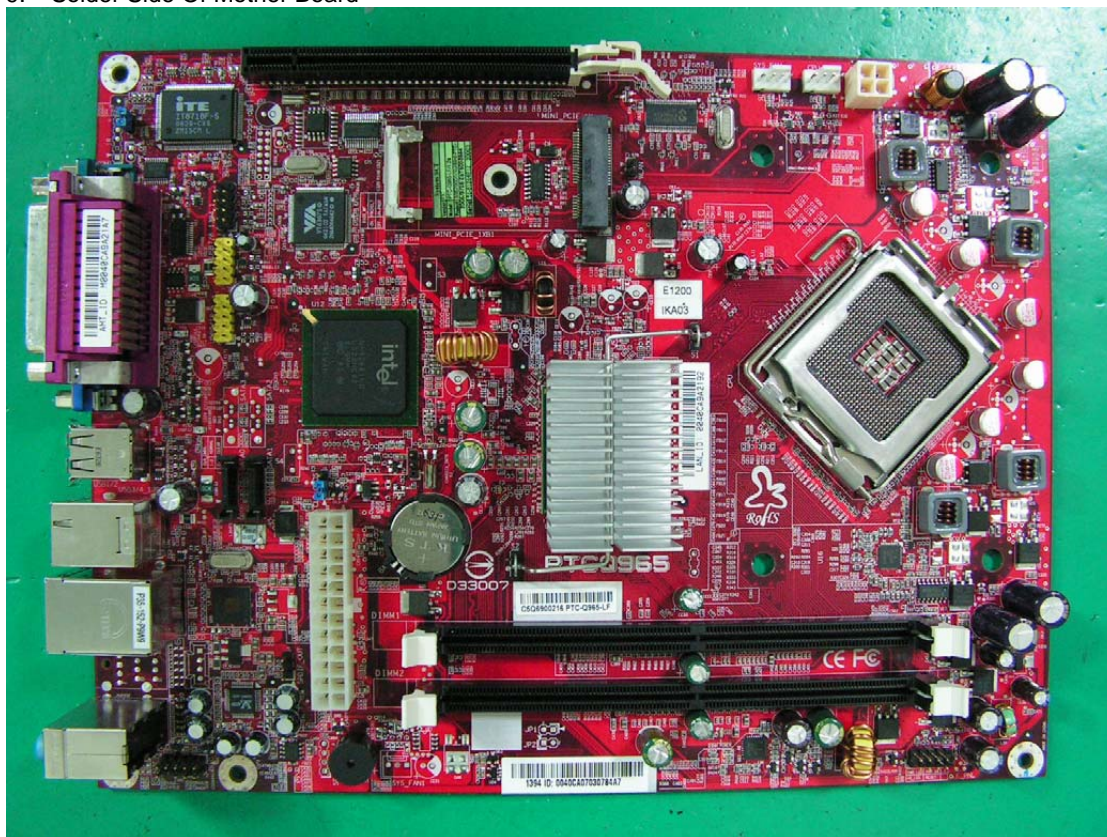


7. Inner View Of PC System (EUT)



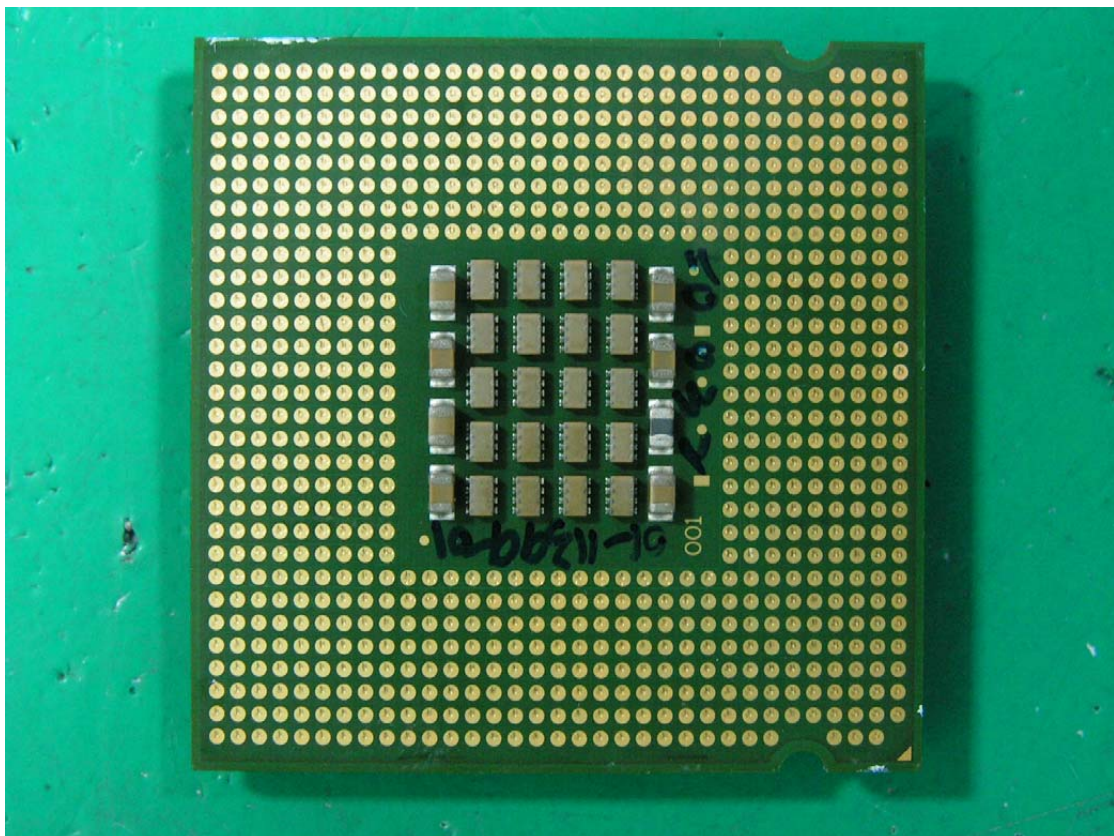
8. Component Side Of Mother Board

9. Solder Side Of Mother Board



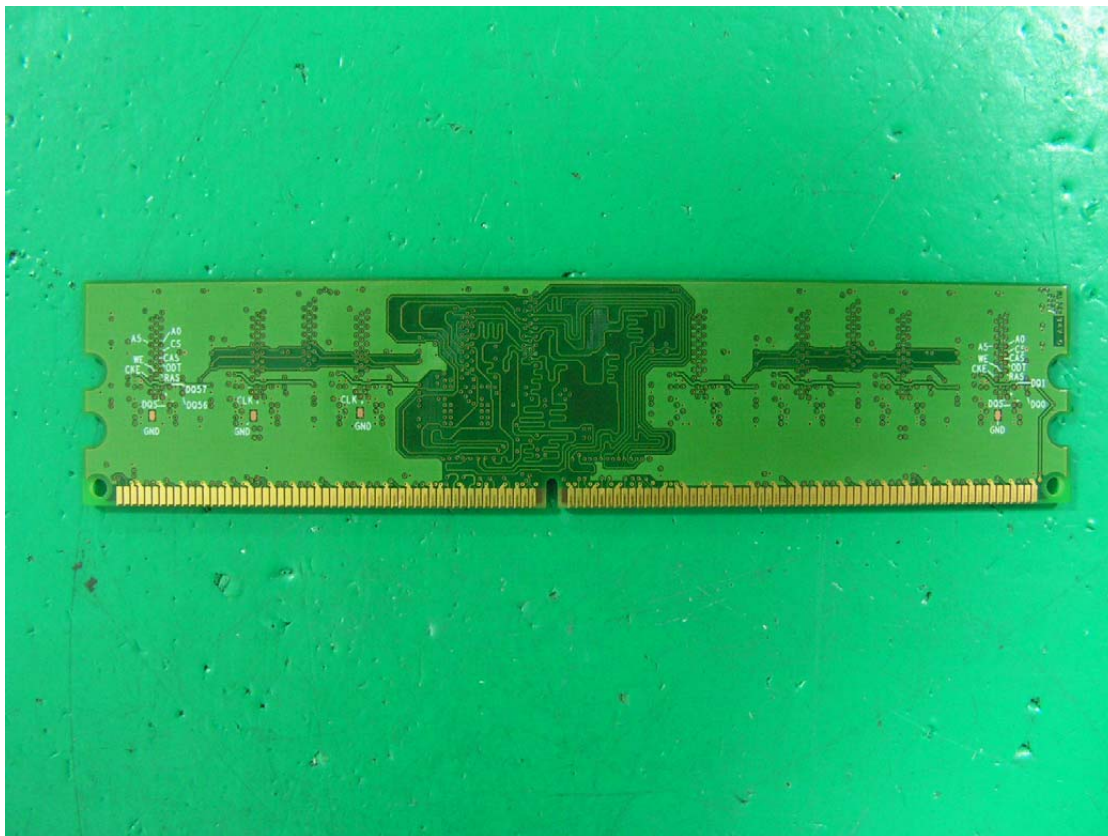
10. Component Side Of CPU

11. Solder Side Of CPU



12. Component Side Of DDRII

13. Solder Side Of DDRII



14. Front View Of H.D.D.

15. Back View Of H.D.D.



16. Front View Of ODD(M/N:SDW-0851)

17. Back View Of ODD (M/N:SDW-0851)

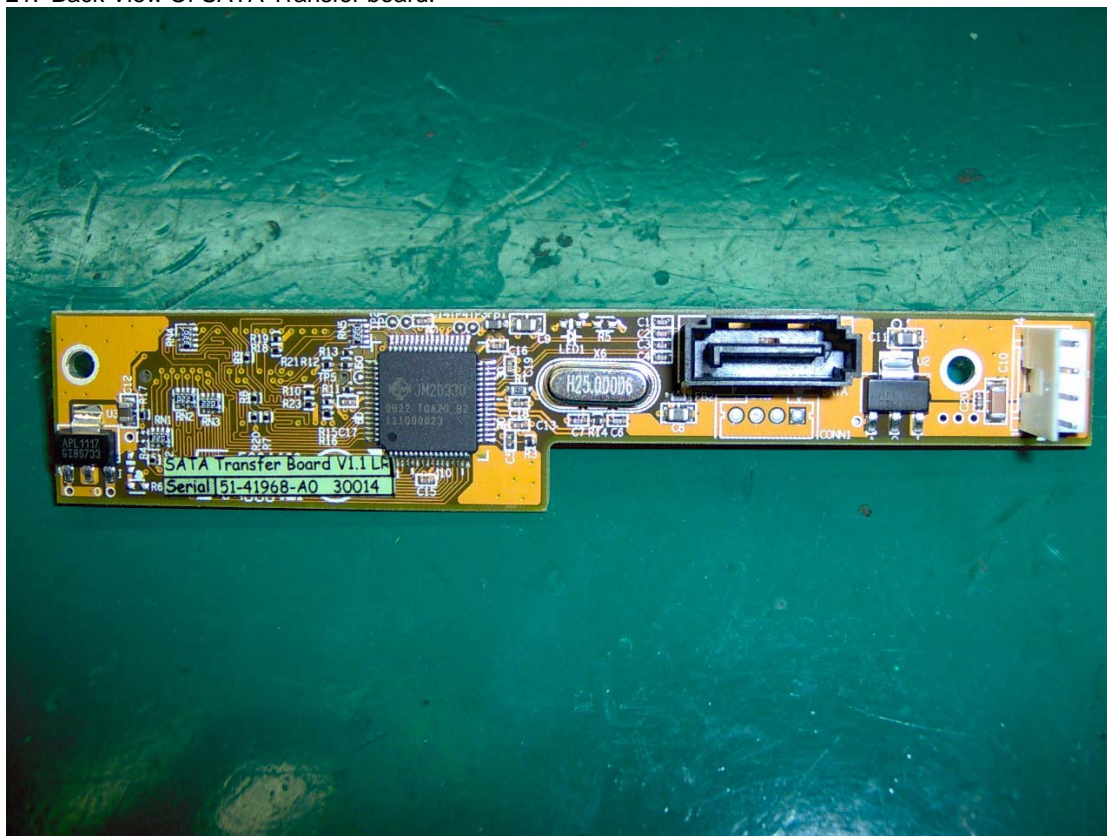


18. Front View Of ODD(M/N:UJ-850UPKA-A)
19. Back View Of ODD (M/N:UJ-850UPKA-A)



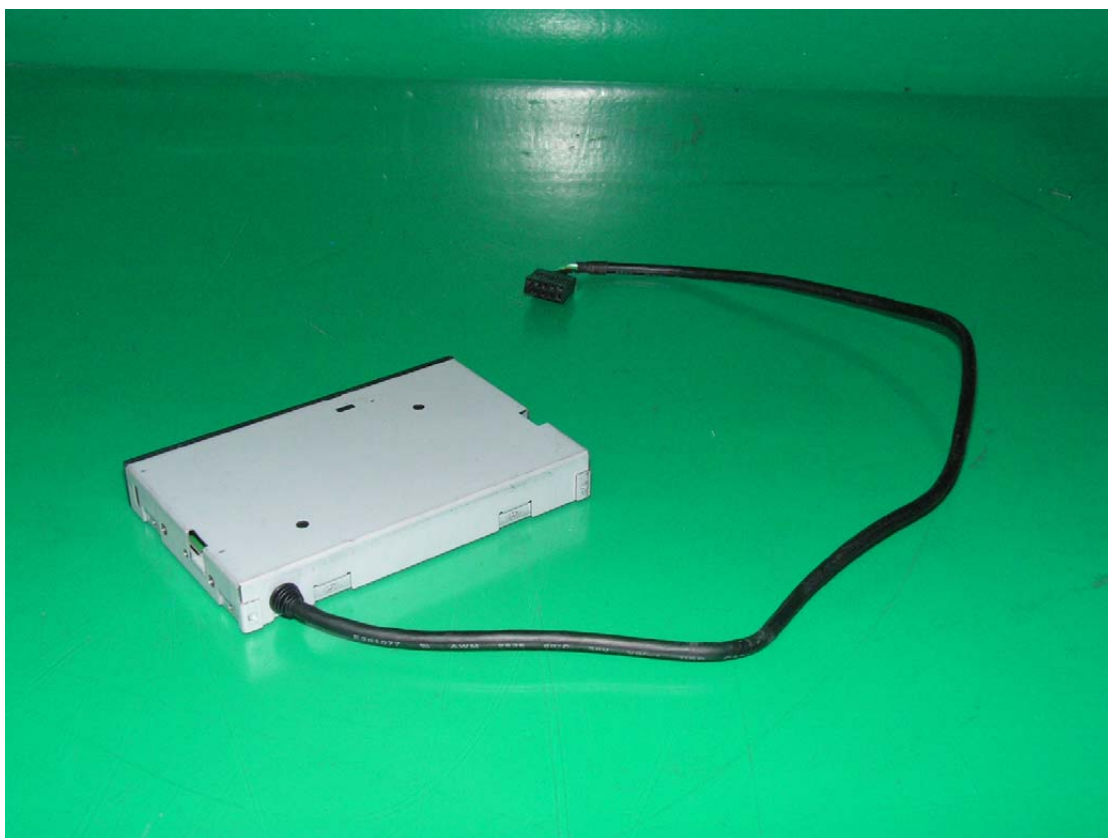
20. Front View Of SATA Transfer board.

21. Back View Of SATA Transfer board.



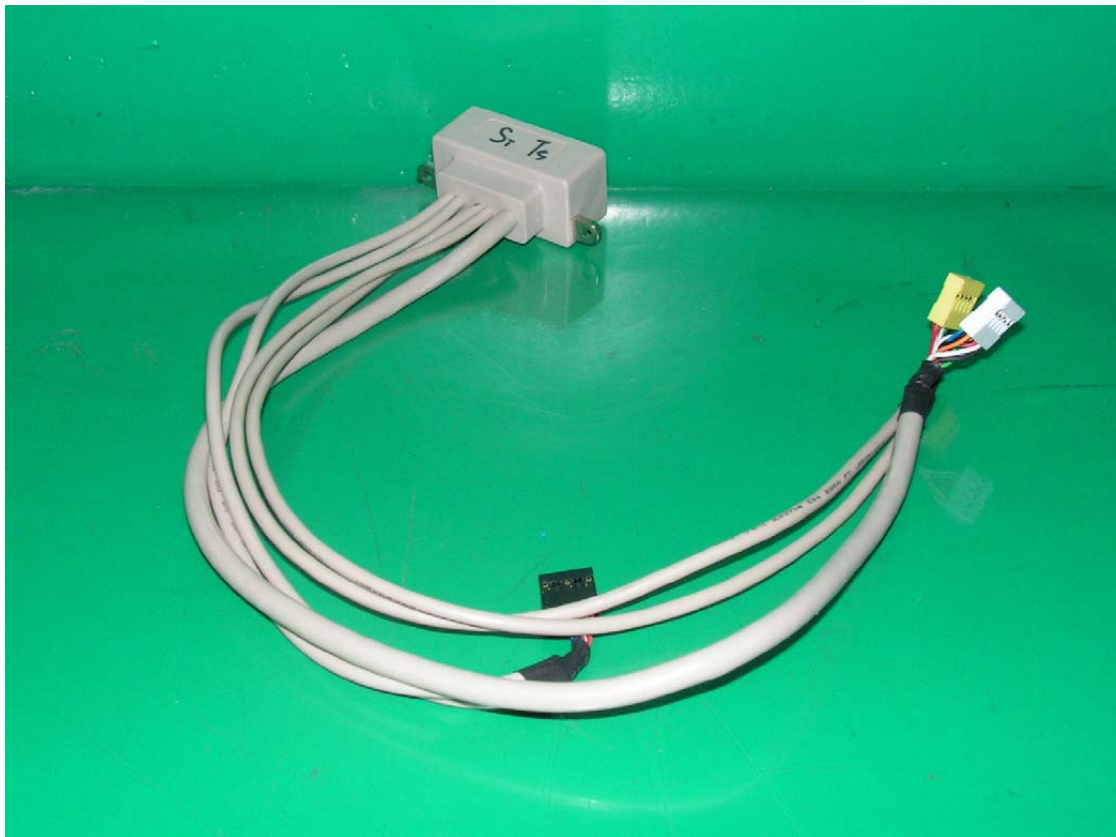
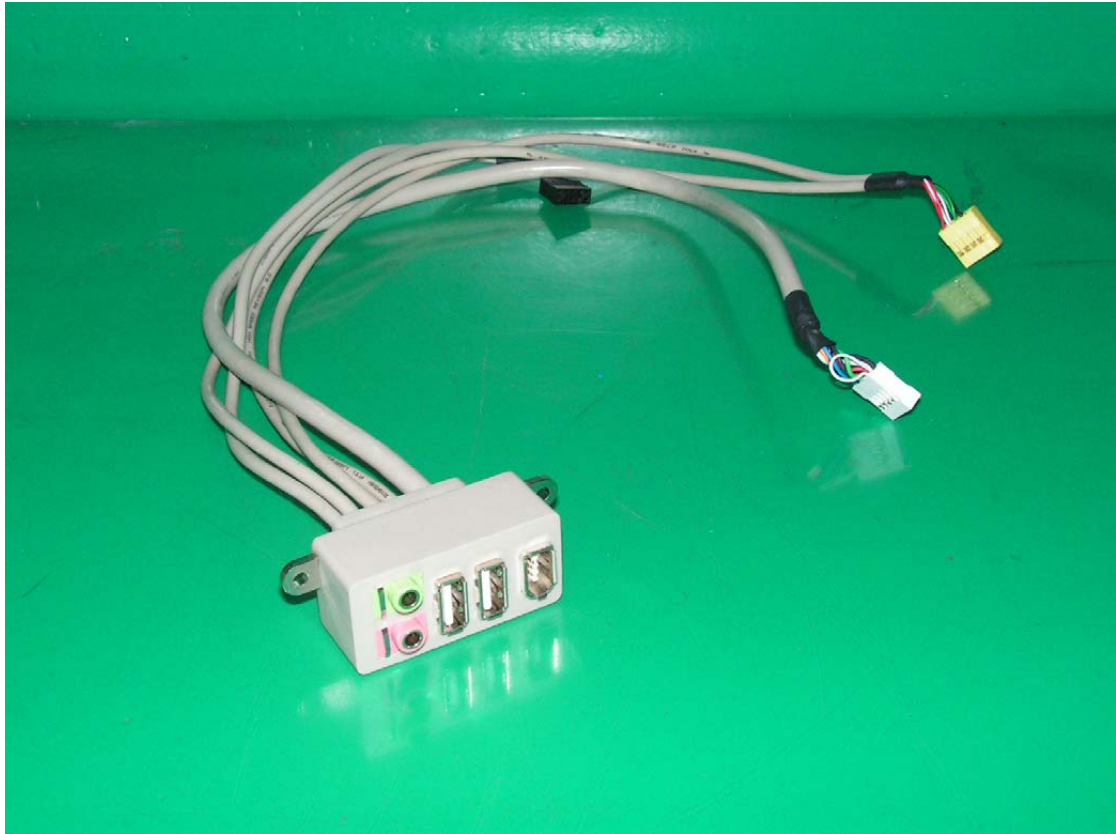
22. Front View Of Card Reader. (IOI)

23. Back View Of Card Reader. (IOI)



24. Front View Of Front I/O.

25. Back View Of Front I/O.



26. Front View Of S.P.S.

27. Back View Of S.P.S.



8. EMI REDUCTION METHOD DURING COMPLIANCE TESTING

No modification was made during testing.

Appendix A

Circuit (Block) Diagram

(Shall be added by Applicant)

Appendix B

User Manual

(Shall be added by Applicant)