

Attachment 3A

FCC PART 15B TEST REPORT (T1010

REPORT NUMBER: FG08_052EAL

Report No. : FG08-052EAL (1/12)

EMI Test report

CATEGORY : EN55022(2006) / CISPR 22(2005) ; Class B
AS/NZS CISPR22 (2002)
FCC Part-15 (2007)
VCCI (2008)
EN301 489-17 V1.2.1, EN301 489-01 V1.4.1

MANUFACTURER : FUJITSU LIMITED
4-1-1, Kamikodanaka, Nakahara-ku, Kawasaki 211-8588 JAPAN

PRODUCT TYPE : Personal computer T1010
AC Adapter SED100P2-19.0 SEC100P3-19.0 ADP-80NB A
Port Replicator FPCPR85
Wireless LAN 512AN _ HMW 533AN _ HMW AR5BHB92
Bluetooth module EYSMJCS

TEST SITE : FUJITSU GENERAL EMC LABORATORY
1116, Suenaga, Takatsu-ku, Kawasaki 213-8502 JAPAN

DATE TESTED : May 13, 2008 24°C 50%

TESTED BY : Hiroyuki Aikawa

EUT conforms to the above mentioned all regulations.

APPROVED BY : for K. Shimano DATE : May 15, 2008
Hiroyuki Shimano, President

FUJITSU GENERAL EMC LABORATORY LIMITED

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※ The description of the EUT and the system configuration in this report are provided by the client.



Product Service



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1. Description of EUT

The EUT: T1010 is personal computer using CPU; Core2 Duo T9600 2.8 GHz microprocessor. The EUT has a 13.3 inch WXGA LCD, a DVD-super multi drive and a system disk (80 GB×1). The EUT has the interface for RGB⑧, DVI, ,HDMI, Mic-in①, Phone-out①, LAN⑤, Modem④, USB×6②③⑨⑩⑪⑫, Memory card slot, PC card slot, Bluetooth and wireless LAN.

The following wireless LAN module type codes are given according to the antenna and manufacture.

Type	Communication method	Antenna.	Manufacture
553AN_HMW	IEEE802.11a/b/g/n	3 antennas	Intel
512AN_HMW	IEEE802.11a/b/g/n	2 antennas	Intel
AR5BHB92	IEEE802.11a/b/g/n	2 antennas	Atheros

Internal clock frequency : 4.000 MHz, 14.318 MHz, 25.000MHz, 33.300 MHz, 48.000 MHz, 96.000 MHz, 100.000 MHz, 266.000 MHz

Input power : AC 100 - 230V, 50 / 60 Hz, Single-phase 2 wires

The EUT is intended to use generally in the residential / domestic area or commercial and light industrial area; category class B.

1.1 Test system configuration

The measurement was performed using T1010 with internal wireless LAN module; any one of 512AN_HMW, 533AN_HMW or AR5BHB92 and Bluetooth module, external Port Replicator; FPCPR85 and all related equipments as the maximum personal computer systems shown in figure-1.

The EUT was selected from the pre-production line.

1.2 Operating condition

The following EUT and dependent devices were tested using "EMC.exe", "Blue test" and "CRTU" or "ART.exe" program under continuous operating condition to obtain maximum emission.

① PC-1

- LCD-1: Displaying "H" character on screen. (Maximum contrast/ Luminescence)
(Display resolution 1280×800 / Refresh rate 60Hz)
- HDD-1: Reading/writing the test data.
- DVD: Play the test disk.
- LAN: Continuous transmission and receiving of the ping command. (1000 M Max)
- Modem: Downloaded data file from the dial up sever (56kbps Max).
Continuous transmission and reception of the ping command.
- HDD-1: Read/write the test data.
- DVD: Play the test disk.
- Wireless LAN: Continuous transmission of the RF signal.
- Bluetooth: Continuous transmission of the RF signal.
- CAMERA: Monitoring the picture of web camera

② PC memory card: Read/write the test data.

③ SD memory card: Read/write the test data.

④ USB2.0 Memory: Read/write the test data. (480 M max)

⑤ LCD-2: Display "H" character on screen. (Maximum contrast / Luminescence)

⑥ Headset: Connecting only.

⑦ USB mouse: Connecting only.

⑧ PC-2: Receiving ping command and test data.

⑨ PC-3: Continuous transmission of the test data.

Continuous receiving of the ping command.

2. EMI test results summary

Applied standard: EN55022 (2006)

Limit value: Class B

The test samples met the class B limit of EN55022(2006)/ CISPR22(2005) and applicable below regulations as shown the following highest 6 points of each emission profiles.

EN301 489-01 V1.4.1

Australia, New Zealand: AS/NZS CISPR22 (2002)

U.S.A: FCC Part-15(2007), Canada: CAN/CSA-CEI/IEC CISPR22-02

Japan: VCCI (2007), Taiwan: CSN 13438(2006)

The test result is effective in only for the EUT.

2.1 Radiated emission (30 MHz to 1,000 MHz) : Measured at 10 m distance**2.1.1 Wireless LAN; 512AN_HMW**

< AC 230 V / 50 Hz single phase >

Freq. (MHz)	pol.	Noise level (QP: dB μ V/m)	Class B limit (QP: dB μ V/m)	Margin (dB)
96.01	Horiz	27.1	30.0	2.9
182.23	Vert	25.9	30.0	4.1
229.10	Horiz	26.2	30.0	3.8
240.00	Vert	36.5	37.0	0.5
480.00	Horiz	34.0	37.0	3.0
552.98	Horiz	33.6	37.0	3.4

< AC 120 V / 60 Hz single phase >

Freq. (MHz)	pol.	Noise level (QP: dB μ V/m)	Class B limit (QP: dB μ V/m)	Margin (dB)
96.01	Horiz	27.0	30.0	3.0
182.23	Vert	26.0	30.0	4.0
240.00	Vert	36.4	37.0	0.6
480.00	Horiz	34.3	37.0	2.7
516.11	Horiz	32.8	37.0	4.2
552.98	Horiz	33.4	37.0	3.6

- Limit value ; CISPR 22(2005) and applied for FCC Part15(2007)

- Measurement uncertainty : ± 3.3 dB (K=2, 95 %)

2.1.2 Wireless LAN; 533AN_HMW

< AC 230 V / 50 Hz single phase >

Freq. (MHz)	pol.	Noise level (QP: dB μ V/m)	Class B limit (QP: dB μ V/m)	Margin (dB)
96.01	Horiz	26.8	30.0	3.2
160.00	Horiz	25.5	30.0	4.5
229.10	Horiz	25.8	30.0	4.2
240.00	Vert	35.8	37.0	1.2
480.00	Horiz	34.0	37.0	3.0
552.98	Vert	33.6	37.0	3.4

- Limit value ; CISPR 22(2005) and applied for FCC Part15(2007)

- Measurement uncertainty : ± 3.3 dB (K=2, 95 %)

2.1.3 Wireless LAN; AR5BHB92

< AC 230 V / 50 Hz single phase >

Freq. (MHz)	pol.	Noise level (QP: dB μ V/m)	Class B limit (QP: dB μ V/m)	Margin (dB)
96.01	Horiz	27.7	30.0	2.3
182.23	Vert	26.0	30.0	4.0
240.00	Vert	33.5	37.0	3.5
480.00	Horiz	33.5	37.0	3.5
552.57	Vert	33.0	37.0	4.0
960.01	Horiz	33.8	37.0	4.5

- Limit value ; CISPR 22(2005) and applied for FCC Part15(2007)
- Measurement uncertainty : ± 3.3 dB (K=2, 95 %)

2.2 Over 1 GHz RF Radiated emission(1 GHz to 14 GHz) : Measured at 3 m distance

Freq. (GHz)	Pol	Noise level (dB μ V/m)	FCC Part-15 Class B limit (dB μ V/m)		Margin (dB to AV)
			Peak	A V	
1.4470	Vert	36.7	74.0	54.0	17.3
1.5190	Horiz	40.8	74.0	54.0	13.2
1.5190	Vert	44.1	74.0	54.0	9.9
1.5990	Vert	39.5	74.0	54.0	14.5
1.6730	Horiz	42.3	74.0	54.0	11.2
1.6730	Vert	45.7	74.0	54.0	8.3

- Limit value ; FCC Part15(2007)

2.3 AC power line conducted emission (150 kHz to 30 MHz)**2.3.1 Wireless LAN; 512AN_HMW****2.3.1.1 AC Adapter: SED100P2-19.0**

< AC 230 V / 50 Hz single phase >

Freq. (MHz)	Line #	Noise level (dB μ V)		Class B limit (dB μ V)		Margin (dB)	
		Q P	A V	Q P	A V	Q P	A V
0.192	# 1	49.8	39.5	64.0	54.0	14.2	14.5
0.386	# 1	39.6	33.6	58.2	48.2	18.6	14.6
0.515	# 1	39.1	31.4	56.0	46.0	16.9	14.6
0.961	# 1	43.4	30.0	56.0	46.0	12.6	16.0
1.029	# 1	44.8	32.2	56.0	46.0	11.2	13.8
1.096	# 1	43.1	31.3	56.0	46.0	12.9	14.7

< AC 120 V / 60 Hz single phase >

Freq. (MHz)	Line #	Noise level (dB μ V)		Class B limit (dB μ V)		Margin (dB to AV)
		Q P	A V	Q P	A V	
0.192	# 1	48.4		64.0	54.0	5.6
0.194	# 2	44.7		63.9	53.9	9.2
0.387	# 2	36.0		48.1	38.1	12.1
0.421	# 1	36.4		57.4	47.4	11.0
0.842	# 1	37.8		56.0	46.0	8.2
1.030	# 1	38.3		56.0	46.0	7.7

< AC 100 V / 50 Hz single phase >

Freq. (MHz)	Line #	Noise level (dB μ V)		Class B limit (dB μ V)		Margin (dB to AV)
		Q P	A V	Q P	A V	
0.192	# 1	45.5		64.0	54.0	8.5
0.192	# 2	45.2		64.0	54.0	8.7
0.384	# 1	36.4		58.2	48.2	11.8
0.576	# 1	33.8		56.0	46.0	12.2
1.027	# 1	35.7		56.0	46.0	10.3
4.965	# 1	33.7		56.0	46.0	12.3

· Limit value ; CISPR 22(1997)

· Measurement uncertainty : ± 2.5 dB (K=2, 95 %)

2.3.1.2 AC Adapter: SEC100P3-19.0

< AC 230 V / 50 Hz single phase >

Freq. (MHz)	Line #	Noise level (dB μ V)		Class B limit (dB μ V)		Margin (dB)	
		Q P	A V	Q P	A V	Q P	A V
0.150	# 1	46.3	32.7	66.0	56.0	19.7	23.3
0.150	# 2	51.9	31.4	66.0	56.0	14.1	21.9
0.200	# 1	44.7	31.6	63.6	53.6	18.9	22.0
0.200	# 2	53.0	38.7	63.6	53.6	10.6	14.9
0.366	# 2	44.7	26.2	58.6	48.6	13.9	22.4
0.527	# 2	37.9	19.0	56.0	46.0	18.1	27.0

< AC 120 V / 60 Hz single phase >

Freq. (MHz)	Line #	Noise level (dB μ V)		Class B limit (dB μ V)		Margin (dB to AV)
		Q P	A V	Q P	A V	
0.162	# 2	44.0		65.4	55.4	11.4
0.167	# 1	40.0		65.1	55.1	15.1
0.246	# 2	37.3		61.9	51.9	14.6
0.301	# 2	40.0		60.0	50.0	10.0
0.463	# 2	35.6		56.6	46.6	11.0
24.576	# 2	34.1		56.0	46.0	15.3

< AC 100 V / 50 Hz single phase >

Freq. (MHz)	Line #	Noise level (dB μ V)		Class B limit (dB μ V)		Margin (dB to AV)
		Q P	A V	Q P	A V	
0.150	# 1	44.2		66.0	56.0	11.8
0.366	# 2	32.9		58.6	48.6	15.7
0.430	# 1	30.7		57.3	47.3	16.6
0.490	# 1	29.6		56.0	46.0	16.4
24.575	# 1	33.9		60.0	50.0	16.1
24.575	# 2	34.5		60.0	50.0	15.5

· Limit value ; CISPR 22(2005)

· Measurement uncertainty : ± 2.5 dB (K=2, 95 %)

2.3.1.3 AC Adapter: ADP-80NB A

< AC 230 V / 50 Hz single phase >

Freq. (MHz)	Line #	Noise level (dB μ V)		Class B limit (dB μ V)		Margin (dB to AV)
		Q P	A V	Q P	A V	
1.255	# 2	34.7		56.0	46.0	11.3
1.439	# 1	35.1		56.0	46.0	10.9
1.806	# 2	35.7		56.0	46.0	10.3
2.491	# 2	35.3		56.0	46.0	10.7
4.436	# 2	35.8		56.0	46.0	10.2
14.569	# 1	38.4		60.0	50.0	11.6

< AC 120 V / 60 Hz single phase >

Freq. (MHz)	Line #	Noise level (dB μ V)	Class B limit (dB μ V)		Margin (dB to AV)
			Q P	A V	
1.922	# 2	34.8	56.0	46.0	11.2
4.721	# 1	33.4	56.0	46.0	12.6
4.897	# 2	35.0	56.0	46.0	11.0
13.093	# 1	37.6	56.0	46.0	12.4
14.877	# 2	37.2	56.0	46.0	12.8
15.371	# 1	37.4	60.0	50.0	12.6

< AC 100 V / 50 Hz single phase >

Freq. (MHz)	Line #	Noise level (dB μ V)	Class B limit (dB μ V)		Margin (dB to AV)
			Q P	A V	
0.174	# 1	42.6	64.8	54.8	12.2
2.033	# 2	35.5	56.0	46.0	10.5
2.216	# 1	34.8	56.0	46.0	11.2
4.484	# 2	34.1	56.0	46.0	11.9
4.721	# 1	33.2	56.0	46.0	12.8
13.231	# 1	37.5	60.0	50.0	12.5

• Limit value ; CISPR 22(2007)

• Measurement uncertainty : ± 2.5 dB (K=2, 95 %)

2.3.2. Wireless LAN; 533AN_HMW**2.3.2.1 AC Adapter: SED100P2-19.0**

< AC 230 V / 50 Hz single phase >

Freq. (MHz)	Line #	Noise level (dB μ V)		Class B limit (dB μ V)		Margin (dB)	
		Q P	A V	Q P	A V	Q P	A V
0.194	# 1	45.7	39.7	63.9	53.9	18.2	14.2
0.194	# 2	49.9	41.9	63.9	53.9	14.0	12.0
0.321	# 2	40.4	33.8	59.7	49.7	19.3	15.9
0.515	# 2	38.6	31.6	56.0	46.0	17.4	14.4
0.580	# 2	39.0	31.8	56.0	46.0	17.0	14.2
1.032	# 2	44.7	31.3	56.0	46.0	11.3	14.7

• Limit value ; CISPR 22(2005)

• Measurement uncertainty : ± 2.5 dB (K=2, 95 %)

2.3.3. Wireless LAN; AR5BHB92**2.3.3.1 AC Adapter: SED100P2-19.0**

< AC 120 V / 60 Hz single phase >

Freq. (MHz)	Line #	Noise level (dB μ V)	Class B limit (dB μ V)		Margin (dB to AV)
			Q P	A V	
0.193	# 1	45.6	63.9	53.9	8.3
0.193	# 2	47.8	63.9	53.9	6.1
0.423	# 2	35.6	57.4	47.4	11.8
0.493	# 2	33.5	56.1	46.1	12.6
0.846	# 2	37.7	56.0	46.0	8.3
1.028	# 2	38.4	56.0	46.0	7.6

• Limit value ; CISPR 22(2005)

• Measurement uncertainty : ± 2.5 dB (K=2, 95 %)

2.4 Telecommunication line conducted emission

< Telecom port >

Freq. (MHz)	Noise level (dB μ V)	Class B limit (dB μ V)		Margin (dB to AV)
		Q P	A V	
0.917	49.2	74.0	64.0	14.8
4.193	50.1	74.0	64.0	13.9
4.969	54.6	74.0	64.0	9.4
5.184	52.7	74.0	64.0	11.3
5.504	52.6	74.0	64.0	11.4
6.397	49.4	74.0	64.0	14.6

< LAN port >

Freq. (MHz)	Noise level (dB μ V)	Class B limit (dB μ V)		Margin (dB to AV)
		Q P	A V	
0.201	17.8	37.6	27.6	9.8
1.324	15.1	30.0	20.0	4.9
2.047	11.1	30.0	20.0	8.9
4.049	11.8	30.0	20.0	8.2
21.973	10.1	30.0	20.0	9.9
24.578	12.2	30.0	20.0	7.8

• Limit value ; CISPR 22(2005)

3. EUT modification under the test

None.

4. Measurement procedure and test equipment

The measurement was performed without deviation from CISPR22 (2005).

4.1 Radiated emission

4.1.1 Radiated emission (30MHz~1,000MHz)

The EUT was set on the 80 cm height d non-reflective desk (W: 150 cm×D: 100 cm) placed on the turntable in the 10 m RF semi-anechoic chamber.

The HUB, TEL, PC-2 and PC-3 were placed at outside of the chamber to make usual install condition at the different place. The maximum noise level in the frequency range from 30 MHz to 1,000 MHz were measured by 10 m method with scanning the antenna height from 1 m to 4 m above the ground plane and rotating the EUT through 360 degrees for both horizontal and vertical polarization.

Preliminary measurement using spectrum analyzer peak detection was performed to arrange the minimum margin spectrum. The settings of the interface cables and the mouse were adjusted to obtain maximum level at the minimum margin spectrum. The final measurement was performed using the RFI receiver (CISPR Quasi-peak, 120 kHz band width) and calibrated broadband antennas or dipole antennas of the main spectrums that was obtained by the preliminary measurement.

Test equipment	Manufacturer	Type	S/N	Cal. Date	Due. Date
Bi Log antenna	Schwarzbeck	VULB9160	3118	2007.12.03	2008.12.03
Dipole antenna	Schwarzbeck	VHA9103	VHA91031573	2007.07.25	2009.07.25
Dipole antenna	Schwarzbeck	UHA9105	UHA91052119	2007.07.25	2009.07.25
Field strength meter	Rohde & Schwarz	ESCS30	849650/001	2007.06.04	2008.06.04
Spectrum analyzer	HP	85422E	3746A00242	2008.05.27	2009.05.27
RF switch	Anritsu	MP59B	M87079	2008.05.07	2009.05.07
RF cable	—	CF013	—	2008.05.07	2009.05.07
2nd semi-anechoic chamber		Riken eletech	—	2008.01.04	2010.01.04
EMI test program	FGE	Version 1.3			

4.1.2 Over 1 GHz radiated emission (1 GHz~14 GHz)

The EUT was set on the 80 cm height non-reflective desk (W: 150 cm×D: 100 cm) on the turntable. The radiated emission measurement from 1 GHz to 14 GHz: Operating rate 2.8 GHz was performed using the spectrum analyzer (Peak detection, 1MHz band width) and the horn antenna that was positioned at 3 m from the EUT for class B. The measurement was performed with rotating the EUT through 360 degrees and fixing the antenna height to the 1 m for both horizontal and vertical polarization.

The measurement was performed with RF signal "off" mode of the wireless LAN and Bluetooth.

Test equipment	Manufacturer	Type	S/N	Cal. Date	Due. Date
Horn antenna	Schwarzbeck	BBHA9120D	414	2007.02.23	2009.02.23
Spectrum analyzer	Advantest	R3371A	75060396	2007.05.27	2008.05.27
Pre amplifier	HP	8449B	3008A01110	2007.03.24	2009.03.24

4.2 AC power line conducted emission

The conducted emission measurement was performed in the shielded room. The EUT was set on the 80 cm height wooden desk with using the 50Ω/50μH artificial mains network: AMN and operated by AC 230 V/ 50 Hz, AC 120 V/ 60 Hz and AC 100 V/ 50 Hz. Preliminary measurement using spectrum analyzer peak detection was performed in the frequency range from 150 kHz to 30 MHz to arrange the minimum margin spectrum. The setting of the cables was adjusted to obtain maximum level at the minimum margin spectrum. The final measurement was performed using the RFI receiver (CISPR Quasi-peak, 9 kHz band width) and recorded the maximum value in the monitored interval of the main spectrum that was obtained by the preliminary measurement.

Test equipment	Manufacturer	Type	S/N	Cal. Date	Due. Date
AMN	Kyoritsu	KNW-407	8-823-18	2007.09.07	2008.09.07
Field strength meter	Rohde & Schwarz	ESCS30	849650/003	2007.06.03	2008.06.03
Spectrum analyzer	HP	85422E	3746A00240	2007.05.27	2008.05.27
RF switch	Rohde & Schwarz	PSU	848290/005	2008.05.07	2009.05.07
Band pass filter	Advantest	TR14202	03560025	2008.05.07	2009.05.07
Pulse limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2008.05.07	2009.05.07
RF cable	---	CF009	---	2008.05.07	2009.05.07
EMI test program	FGE	Version 1.3			

4.3 Telecommunication line conducted emission

The conducted emission measurement was performed in the shielded room. The EUT was set on the 40 cm height wooden desk with using the impedance stabilization network: ISN(LCL:80 dB) for telecom port and the current probe for LAN port and operated by AC 230 V/ 50 Hz. Preliminary measurement using spectrum analyzer peak detection was performed in the frequency range from 150 kHz to 30 MHz to arrange the minimum margin spectrum. The setting of the cables was adjusted to obtain maximum level at the minimum margin spectrum. The final measurement was performed using the RFI receiver (CISPR Quasi-peak, 9 kHz band width) and recorded the maximum value in the monitored interval of the main spectrum that was obtained by the preliminary measurement.

Test equipment	Manufacturer	Type	S/N	Cal. Date	Due. Date
ISN	Kyoritsu	KNW-2202	8S-2945-2	2007.09.03	2008.09.03
Current probe	Rohde & Schwarz	EZ-17	100007	2007.03.06	2009.03.06
Field strength meter	Rohde & Schwarz	ESCS30	849650/003	2007.06.03	2008.06.03
Spectrum analyzer	HP	85422E	3746A00240	2007.05.27	2008.05.27
RF switch	Rohde & Schwarz	PSU	848290/005	2008.05.07	2009.05.07
Band pass filter	Advantest	TR14202	03560025	2008.05.07	2009.05.07
Pulse limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2008.05.07	2009.05.07
RF cable	---	CF009	---	2008.05.07	2009.05.07
EMI test program	FGE	Version 1.3			

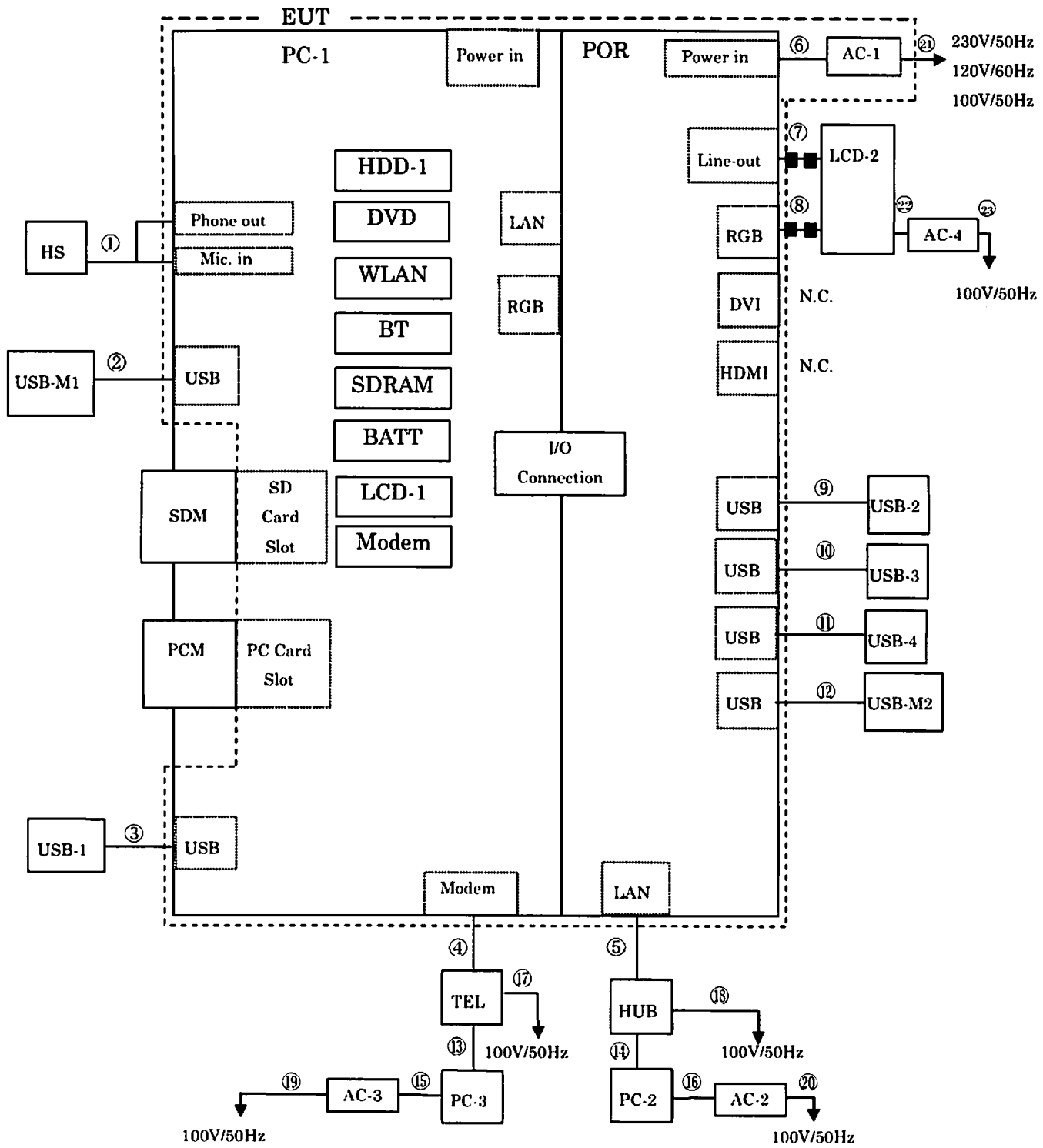
5. Test site and traceability

The FUJITSU GENERAL EMC LABORATORY performs the test for VCCI / EN / CISPR regulation and Fujitsu / Fujitsu General internal regulations. The test procedures and test facilities are comply with international standard. The laboratory is filed on VCCI (Japan), accredited from NVLAP (U.S.A.), authorized from TÜV SÜD PS (Germany) and appointed from TÜV Rheinland (Germany).

VCCI : 1st semi-anechoic chamber(R-753/C-776), 1st shielded room(C-777)
 Large shielded room(C-778)
 2nd semi-anechoic chamber(R-1460/C-1547), 2nd shielded room(C-1548)
 3rd shielded room(C-1549)
NVLAP : 1998.12.01 Accredited: Lab code 200373-0
TÜV SÜD PS : 1999.01.29 Authorized
TÜV Rheinland Japan : 2005.08.25 Appointed

The measuring equipments were used in the laboratory and test data are traceable to the national or international standard. Each equipment is maintain by periodical calibration and by daily check as a total measurement system to keep those accuracy.

Figure-1 System configuration and cables



■ : Ferrite core

Main EUT				
Code	Name	Type	S/N	Product
PC-1	Personal computer	T1010	Pre-production sample	Fujitsu
Related EUT				
POR	Port Replicator	FPCPR85	----	Fujitsu
AC-1	AC adapter	SED100P2-19.0	----	Fujitsu
	AC adapter	SEC100P3-19.0	----	Fujitsu
	AC adapter	ADP-80NB A	----	Fujitsu

Included device; PC-1

Code	Name	Type	S/N	Product
HDD-1	80GB HDD	MHZ2080BH	K6IYT81254A5	Fujitsu
DVD	DVD-Super Multi	GSA-T50N	B8ARFF1000165	H · L Data Storage
WLAN	Wireless LAN	512AN_HMW	----	Intel
		533AN_HMW	----	Intel
		AR5BHB92	----	Intel
BT	Bluetooth	EYSMJCS	----	TAIYO YUDEN
SDRAM	2048 MB	MT8JSF12864HY-1G1D1×2	----	Mycron
BATT	Battery(6 Cell)	FPCBP155 10.8V 5200mA/h	----	Fujitsu
LCD-1	13.3 inch WXGA	LTN133AT03	----	SAMSUNG
Modem	Telephony modem	MDC1.5 modem model D40	----	Agere

Assisted equipment

Code	Name	Type	S/N	Product
LCD-2	LCD display	WBZA-H	YE1C019316	FSC
	LCD display	P19-1	YEGA217490	FSC
HS	Head set	AP-210Pro	----	FSC
HUB	Switching Hub	ETG-SH-8	VD7000010513N	I·O DATA
TEL	Telephone line emulator	TEL101	----	ASCII
PC-2	Personal computer	FMV	----	Fujitsu
PC-3	Personal computer	FMV	----	Fujitsu
AC-2	AC adapter	FMV-AC322	----	Fujitsu
AC-3	AC adapter	FMV-AC322	----	Fujitsu
USB-M1	USB Memory	256MB	----	I·O DATA
USB-M2	USB Memory	256MB	----	I·O DATA
USB-1	USB Mouse	M-BT69e	HCA52701556	FSC
USB-2	USB Mouse	M-BT69e	HCA52701562	FSC
USB-3	USB Mouse	M-BT69e	HCA52701578	FSC
USB-4	USB Mouse	M-BT69e	HCA52701600	FSC
PCM	PC card (CF Adapter)	PCCF-ADP (512 MB)	----	I·O DATA
SDM	SD memory card	512MB	----	Panasonic

Cables SLD: Shielded NSLD: Non-shielded CAX: Coaxial

Connector MC: Metal NMC: Non-metal PMC: Point contact metal

No.	I/O Port	Name	Type	Length	Cable type
①	Phone-out / Mic-in	Headset cable	----	2.2m	NSLD, MC
②	USB	USB cable	----	1.0m	SLD, NMC
③	USB-1	USB mouse cable	----	1.9m	SLD, MC
④	Modem	Modem cable	----	20.0m	NSLD, NMC
⑤	LAN	LAN cable	----	20.0m	SLD, MC
⑥	Power in	AC adaptor cable	----	1.8m	NSLD, NMC
⑦	Line-out	Audio cable	----	2.0m	SLD, MC with fixed core
⑧	RGB	RGB cable	----	2.0m	SLD, MC with fixed core
⑨	USB	USB mouse cable	----	1.9m	SLD, MC
⑩	USB	USB mouse cable	----	1.9m	SLD, MC
⑪	USB	USB mouse cable	----	1.9m	SLD, MC
⑫	USB	USB cable	----	1.0m	SLD, NMC
⑬	----	Modem cable	----	1.0m	NSLD, NMC
⑭	----	LAN cable	----	1.0m	SLD, MC
⑮	----	AC adaptor cable	----	1.8m	NSLD, NMC
⑯	----	AC adaptor cable	----	1.8m	NSLD, NMC
⑰	----	AC power cable	----	2.0m	2P-NSLD
⑱	----	AC power cable	----	2.0m	3P-NSLD
⑲	----	AC power cable	----	2.0m	2P-NSLD
⑳	----	AC power cable	----	2.0m	2P-NSLD
㉑	----	AC power cable	----	2.0m	2P-NSLD
----	----	AC power cable	----	3.0m	3P-NSLD
㉒	----	AC adaptor cable	----	1.8m	NSLD, NMC
㉓	----	AC power cable	----	2.0m	3 P -NSLD