

EMC TEST REPORT

Test report no.: EMC-CE-0502
Type of equipment: DIGITAL COLOR CAMERA
Model Name: SCC-C4205P
Applicant: SAMSUNG ELECTRONICS CO., LTD
Test standards: EN61000-6-3:2003 Class B
EN 50130-4 : 1995+A1+A2:2003

Testing Laboratory: EMC Compliance Ltd.

Test result: **Complied**

This product complies with the requirements of the EMC Directive 89/336/EEC. The results in this report apply only to the sample tested. This test report shall not be reproduced except in full, without the written approval of EMC compliance Laboratory.

Date of Receipt: 2005. 05. 06

Date of test: 2005. 05. 08~09

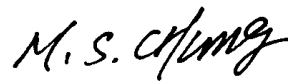
Date of Issue: 2005. 05. 10

Tested by:



SEO, JUNG HUN

Approved by:



CHUNG, MIN-SEOK

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1. Client information

Applicant : SAMSUNG ELECTRONICS CO., LTD
Address : 416, Maetan-dong, Youngtong-gu, Suwon city,
Kyunggi-do, Korea
Telephone Number : +82-31-200-9827
Contact person : Kang Je Soon

Manufacturer :SAMSUNG ELECTRONICS CO., LTD
Address : 416, Maetan-dong, Youngtong-gu, Suwon city,
Kyunggi-do, Korea
Telephone Number : +82-31-200-9827

2. Laboratory information

Address

EMC compliance Ltd.

82-1 JEIL-RI, YANGJI-MYUN, YOUNGIN-CITY, KYUNGGI-DO, 449-825 KOREA

Telephone Number : 82 31 336 9919

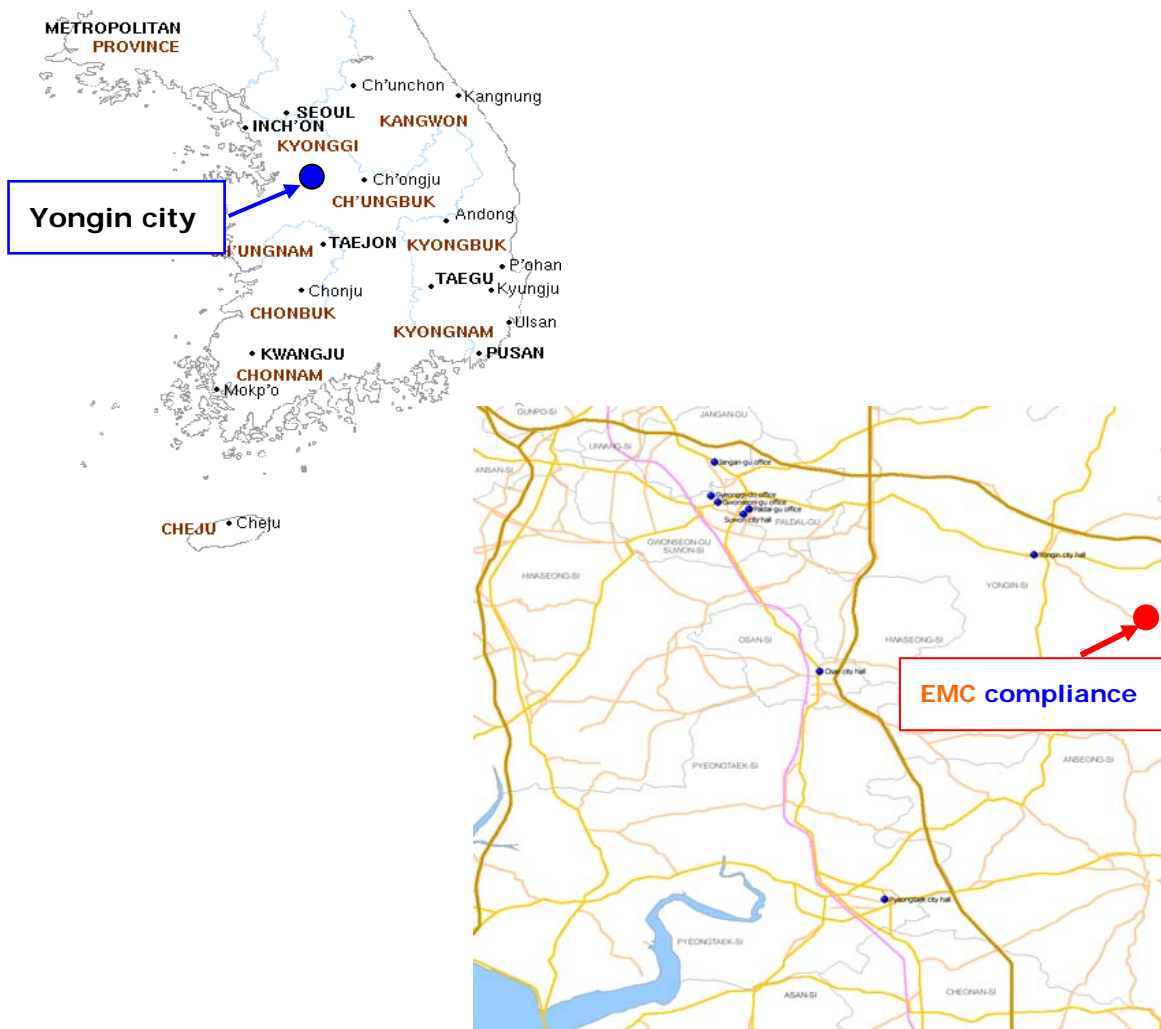
Facsimile Number : 82 31 336 4767

FCC Filing No. : 793334

VCCI Registration No. : C-1713, R-1606

KOLAS NO.: 231

SITE MAP



EMC Compliance Ltd.

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3. Test system configuration

3.1 Operation environment

	Temperature	Humidity	Pressure
OATS	16 °C	33 %	1001 hPa
Shielded room	29 °C	31 %	1000 hPa
Immunity area	30 °C	32 %	1001 hPa

Test site

These testing items were performed following locations;

Shielded Room	: Conducted Emission, ESD
OATS (10m)	: Radiated Emission
Immunity area	: RS, EFT/ Burst, SURGE, CS

3.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC.

The factors contributing to uncertainties are test receiver, cable loss, antenna factor calibration, Antenna directivity, antenna factor variation with height, antenna phase center variation, antenna frequency interpolation, measurement distance variation, site imperfection, mismatch, and system repeatability.

Based on NIS 80, 81, the measurement uncertainty level with a 95% confidence level was applied.

3.3 Sample calculation

Conducted Emission

The field strength is calculated by adding the LISN factor, cable loss from the measured reading.

The sample calculation is as follows :

$$FS = MR + LF + CL$$

MR = Meter Reading

LF = LISN Factor

CL = Cable Loss

If MR is 30dB, LISN Factor 1dB, CL 1dB

The result (MR) is

$$30 + 1 + 1 = 32\text{dBuV}$$

Radiated emission

The field strength is calculated adding the antenna Factor, cable loss and, Antenna pad adding, subtracting the amplifier gain from the measured reading.

The sample calculation is as follows :

$$FS = MR + AF + CL + AT -AG$$

MR = Meter Reading

AF = Antenna Factor

CL = Cable Loss

AP = Antenna Pad

AG=Amplifier Gain

If MR is 30dB, AF 12dB, CL 5dB, AP 10dB, AG 35dB

The result (MR) is

$$30 + 12 + 5 + 10 - 35 = 22\text{dBuV/m}$$

4. Description of EUT

4.1 Product description

Applicant / Manufacturer:	SAMSUNG ELECTRONICS CO., LTD.
Address:	416, Maetan-dong, Youngtong-gu, Suwon city, Kyunggi-do, Korea
Type of equipment:	DIGITAL COLOR CAMERA
Model (Description):	SCC-C4205P
Serial number:	N/A

4.2 Peripherals

Description	Model / Part #	Serial number	Manufacture
Monitor	cx714MP	N495H4KXB00713H	SAMSUNG

4.3 Operating conditions

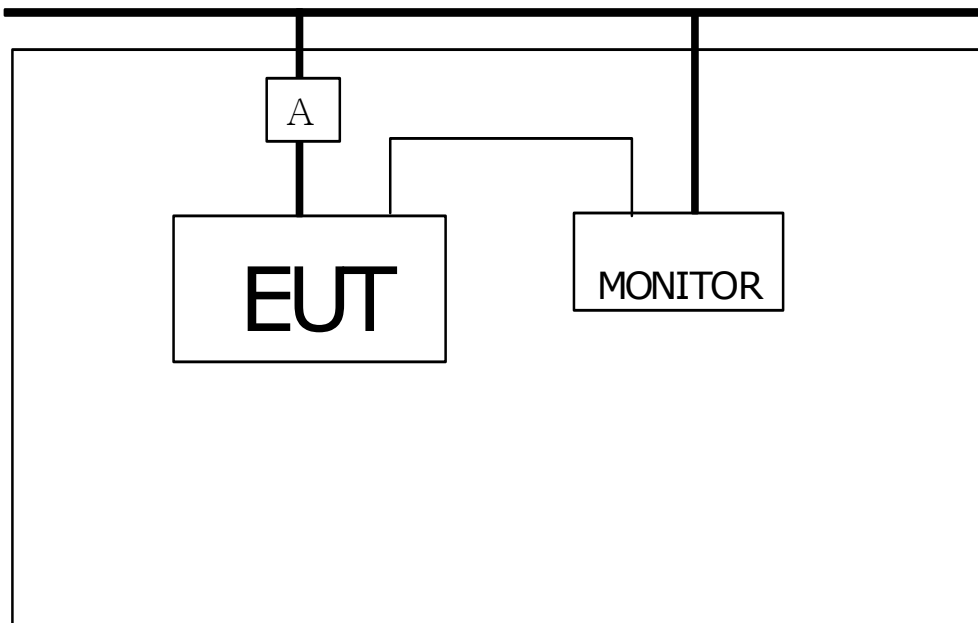
Operating :

-Camera Capture Mode.

4.4 Used cables

Start		END		Cable Spec.	
Name	I/O Port	Name	I/O Port	Length	Shield
EUT	VIDEO	MONITOR	VIDEO	1.5	Shield

4.5 E.U.T. test configuration



5. Summary of test results

5.1 Modification to the E.U.T.

None

5.2 Standards & results

The following standards have been applied:

EN61000-6-3:2003

Electromagnetic compatibility(EMC)–Part6-4:Generic standards- Emission standard for Industrial environments.

Test items	Test method	Result
Conducted emission		Pass
Radiated emission		Pass

EN 50130-4:1995+A1+A2:2003

Alarm systems – part 4: Electromagnetic compatibility – Product Family standard: Immunity requirements for components of fire, intruder and social alarm systems

Test items	Test methods	Result
Electrostatic discharge	EN 61000-4-2:1995	Pass
Electromagnetic field	EN 61000-4-3:1995	Pass
Electric fast transients	EN 61000-4-4:1995	Pass
Surge	EN 61000-4-5:1995	Pass
Conducted immunity	EN 61000-4-6:1996	Pass

5.3 Performance criteria

Performance criterion A: The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion B: After the test, The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.

If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion C: Loss of function is allowed, provided the function is self-recoverable or can be restored by the operating of the controls by the user In accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

6. Test results

6.1 Conducted Emission

6.1.1 Measurement procedure

Mains

The measurements were performed in a shielded room.

EUT was placed on a non-metallic table height of 0.8 m above the reference ground plane.

The rear of table was located 0.4 m to the vertical conducted plane.

Each EUT power lead, except ground (safety) lead, was individually connected through a LISN to input power source.

Both lines of power cord, hot and neutral, were measured.

6.1.2 Used equipments

Equipment	Model	Serial No.	Makers	Next Cal. Date	Used
Test receiver	ESHS10	843276/003	R&S	05.05.13	<input checked="" type="checkbox"/>
L.I.S.N.	ESH3-Z5	100267	R&S	05.06.17	<input checked="" type="checkbox"/>
	L2-16A	0000J10705	PMM	05.11.20	<input checked="" type="checkbox"/>
Test site	Shield room	-	-	-	<input checked="" type="checkbox"/>

6.1.3 Measurement uncertainty

Conducted emission measurement : (k=2, 95%)

9kHz-150 kHz : ±3.48

150kHz-300 MHz : ±3.05

6.1.4 Test data

Frequency [MHz]	Correction Factor		Line	Quasi-peak			Average		
	LISN	Cable		Limit	Reading	Result	Limit	Reading	Result
				[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]
0.153	0.03	0.2	N	65.84	38.62	38.85	55.84	8.48	8.71
0.159	0.03	0.2	H	65.52	36.01	36.24	55.52	6.47	6.70
0.207	0.03	0.2	H	63.32	29.84	30.07	53.32	29.17	29.40
0.210	0.03	0.2	N	63.21	26.57	26.80	53.21	23.37	23.60
0.312	0.08	0.2	H	59.92	23.45	23.73	49.92	21.10	21.38
0.414	0.08	0.2	H	57.57	25.65	25.93	47.57	22.02	22.30
0.519	0.09	0.3	H	56.00	27.11	27.50	46.00	26.42	26.81
0.621	0.10	0.2	N		26.10	26.40		24.28	24.58
0.624	0.09	0.2	H		26.28	26.57		24.75	25.04
0.828	0.11	0.3	N		25.22	25.63		21.05	21.46
0.933	0.11	0.3	N		25.65	26.06		24.34	24.75
0.936	0.10	0.3	H		25.39	25.79		24.61	25.01
9.050	0.33	0.6	H		60.00	28.33		29.26	50.00
9.360	0.33	0.6	H	29.60		30.53	23.64	24.57	
9.410	0.32	0.6	N	31.16		32.08	25.48	26.40	
18.870	0.84	0.5	N	26.84		28.18	14.00	15.34	
19.100	0.91	0.5	H	29.36		30.77	16.65	18.06	
19.230	0.84	0.5	N	27.21		28.55	14.25	15.59	

- Note. QP = Quasi-Peak, AV= Average
- Loss = LISN Loss + Cable Loss
- Measurement time : 1 s

6.1.5 Result

Complied

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6.2 Radiated emission

6.2.1 Measurement procedure

A pretest was performed at 3m distance in a semi-anechoic chamber for searching correct frequency. The final test was done at a 10m open area test site with a quasi-peak detector. EUT was placed on a non-metallic table height of 0.1m above the reference ground plane. Cables were folded back and forth forming a bundle 0.3m to 0.4m long and were hanged at a 0.4m height to the ground plane. Cables connected to EUT were fixed to cause maximum emission. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

6.2.2 Used equipments

Equipment	Model no.	Serial no.	Makers	Next cal. date	Used
Test receiver	ESVS10	827864/006	R&S	05.05.14	<input checked="" type="checkbox"/>
TRILOG Super Broadband Ant	VULB 9160	9160-3149	SCHWARZBECK Mess-Elektronik	05.09.29	<input checked="" type="checkbox"/>
Antenna Mast	A109	N/A	DEAIL	-	<input checked="" type="checkbox"/>
Turn Table	TS14	N/A	DEAIL	-	<input checked="" type="checkbox"/>
10m OATS	-	-	EMC Compliance	-	<input checked="" type="checkbox"/>

6.2.3 Measurement uncertainty

Radiated Emission measurement : (k=2, 95%)

30-300 MHz ; 3 m: ±3.56, 10 m: ±3.50

300-1000 MHz ; 3 m: ±4.47, 10 m: ±2.64

6.2.4 Test data

Frequency [MHz]	Reading [dBuV/m]	Pol.	Height [m]	angle	Correction Factor		Limits [dBuV/m]	Result [dBuV/m]	Margin [dB]
					Antenna	Cable			
253.49	9.3	V	1.1	142	11.98	1.96	47.0	23.25	23.75
582.82	10.2	H	3.0	356	18.67	4.00	47.0	32.87	14.13
583.20	5.3	H	3.5	25	18.70	4.00	47.0	28.00	19.00
708.59	3.6	V	1.2	56	20.29	4.64	47.0	28.53	18.47
708.66	2.9	H	3.6	305	20.29	4.64	47.0	27.83	19.17
878.22	3.5	V	1.2	30	22.11	5.50	47.0	31.11	15.89
936.39	4.7	V	1.2	272	23.16	5.68	47.0	33.54	13.46
936.41	8.6	H	1.0	289	23.16	5.68	47.0	37.44	9.56

* 3 m OATS

* Note : Reading = Test Receiver meter,

$P = \text{Polarization} \rightarrow \text{POL H} = \text{Horizontal}, \text{POL V} = \text{Vertical}$

* Result = Field Strength (Antenna factor + Cable factor + Reading)

6.2.5. Result

Complied

6.3 Electrostatic Discharge

6.3.1 Measurement procedure

A ground reference plane was located on the floor, and connected to earth via a low impedance connection.

The return cable of the ESD generator was connected to the reference plane. In case of floor standing equipment, EUT was placed on the reference plane on 0.1 m of insulating Support.

In case of table top equipment, EUT was placed on a wooden table 0.8m above the reference grounded floor.

A horizontal coupling plane(HCP) was placed on the table, and Connected to the reference plane via a 470kΩ resistor located in each end (0.5mm insulating support between EUT and HCP).

In both cases a vertical coupling plane(VCP) OF 0.5 X 0.5m was located 10cm from the EUT's sides.

The VCP was connected to the reference plane in the same matter as the HCP.

6.3.2 Used equipments

Equipment	Model No.	Serial No.	Makers	Next Cal. Date	Used
ESD Tester	PESD1600	H011309	Haefely	05.07.25	<input checked="" type="checkbox"/>
HCP	-	-	-	-	<input checked="" type="checkbox"/>
VCP	-	-	-	-	<input checked="" type="checkbox"/>

6.3.3 Test Data

Test Specification : EN61000-4-2

Kind of Discharges

- Contact Discharge (Direct Discharge)
- Air Discharge
- HCP / VCP (Indirect Discharge)

Discharge Voltages

- Contact Discharge : $\pm 2, 4, 6\text{kV}$
- Air Discharge : $\pm 2, 4, 8\text{kV}$

Discharge Impedance

- 330 Ω /150 pF
- 2K Ω /330 pF

Number Of Discharge

- Number of discharges per point, for each voltage and polarity
: 10 (Interval between discharges : $\geq 1\text{s}$)

Test point (Please refer to attached photograph.)

- Contact Discharge : EUT case, Screw, EUT port
- Air Discharge : EUT LANS

Test Results

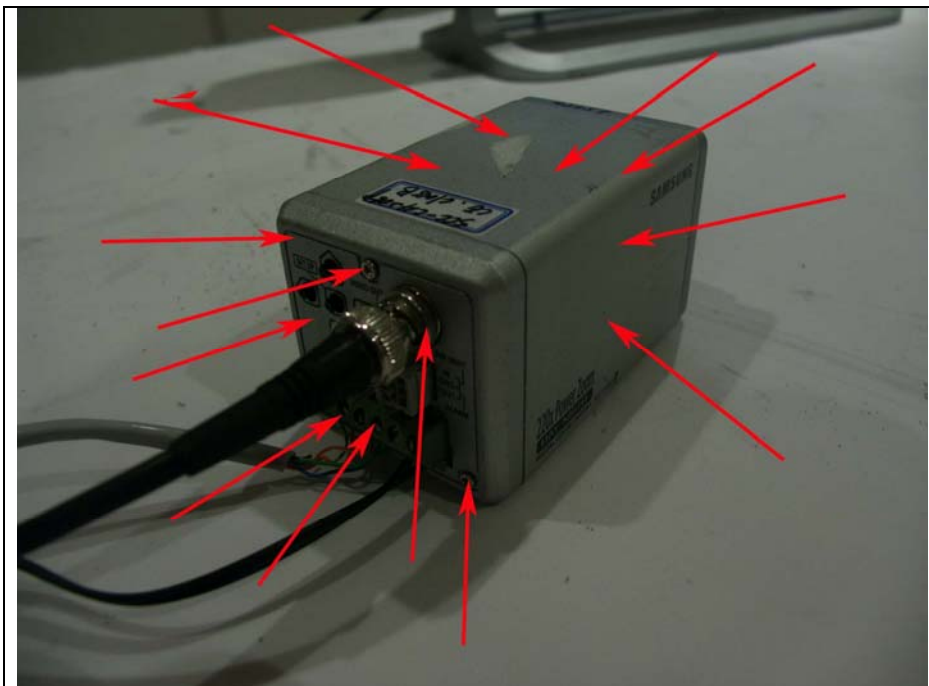
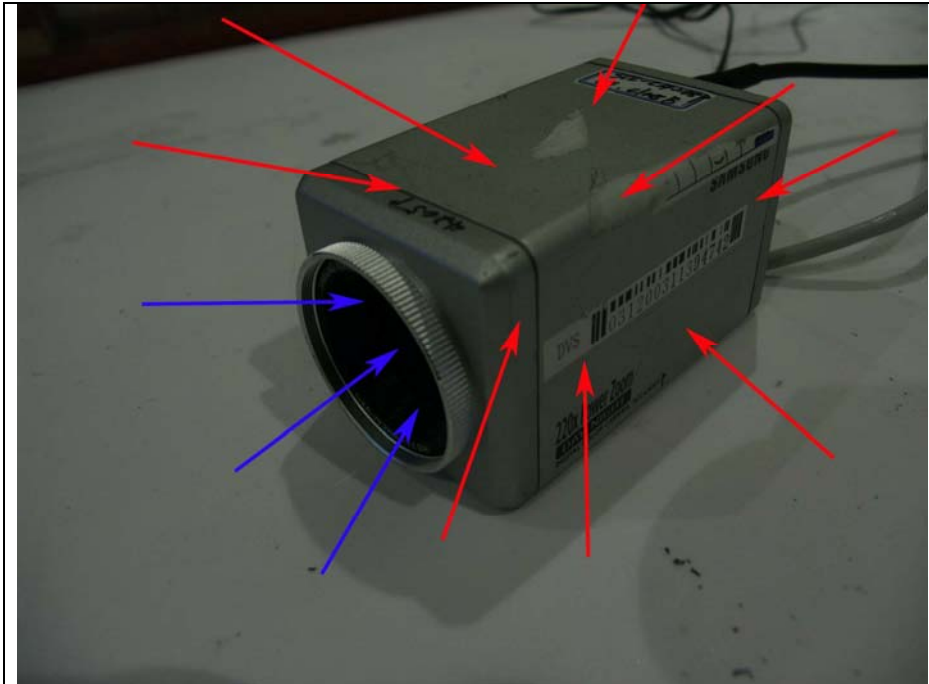
- Complied
- Not complied

Comment :

- There was no change of operation status during above testing.

Electrostatic Discharge (Test Point)

Air discharge	→
Contact discharge	→



6.4 Radio Frequency Electromagnetic Fields

6.4.1 Measurement procedure

The test was performed at 3m full anechoic chamber.

For floor standing equipment, the EUT was standing on the floor.

For tabletop equipment, the EUT was located on a wooden table 0.8m above the floor.

The EUT was tested all sides, horizontal and vertical polarization.

The field uniformity was calibrated for 1V/m, 3V/m, 10V/m.

6.4.2 Used equipments

Equipment	Model no.	Serial no.	Makers	Next Cal. date	Used
Power meter	PM2002	302852	AR	06.05.03	<input checked="" type="checkbox"/>
Field monitor	FM5004	303078	AR	07.12.09	<input checked="" type="checkbox"/>
Power sensor (with adapter)	PH2000	303224	AR	06.05.03	<input checked="" type="checkbox"/>
Power sensor (with adapter)	PH2000	303222	AR	07.12.09	<input checked="" type="checkbox"/>
Isotropic probe	FP5000	303057	AR	06.05.09	<input checked="" type="checkbox"/>
Directional coupler	DC6180	303976	AR	06.05.03	<input checked="" type="checkbox"/>
Amplifier	150W1000M2	303843	AR	06.05.03	<input checked="" type="checkbox"/>
Signal generator	2023A	202304/2578	IFR	06.05.03	<input checked="" type="checkbox"/>
Function generator	33120A	US36018826	HP	07.05.03	<input checked="" type="checkbox"/>
BiconiLog Ant.	3142B	1786	EMCO	06.05.15	<input checked="" type="checkbox"/>

6.4.3 Measurement uncertainty

Radio Frequency Electromagnetic Fields : ± 0.21 (k=2, 95%)

6.4.4 Test Data

Test Specification : EN 61000-4-3

Frequency Range

80MHz - 1000MHz 900 MHz \pm 5MHz 26MHz - 500MHz

Test level

1V/m 3V/m 10V/m

Modulation

AM : 1kHz, 80%
 PM : 1Hz (0.5s ON: 0.5 s OFF)

Frequency step

log 1% step log 3% step log 5% step

Dwell Time

3 s 2 s 1 s

Test point

Front
 Rear
 Left
 Right

Test Results

Complied Not complied

Comment :

- There was no change of operation status during above testing.

6.5 Electric Fast Transient/BURST

6.5.1 Measurement procedure

A ground reference plane was located on the floor.

EFT generator was connected to reference ground plane via low impedance connection.

For floor standing equipment, EUT was placed on a 0.1 m wooden table.

For tabletop equipment, EUT was placed on a wooden table(0.8m) above the reference plane.

6.5.2 Used equipments

Equipment	Model No.	Serial No.	Makers	Next Cal. date	Used
EFT/B Tester	UCS 500 M6	0701-03	EM TEST	06.05.03	<input checked="" type="checkbox"/>
	RWG500 M6	0701-08	EM TEST	06.05.08	<input type="checkbox"/>
	TSS500 M4	0402-01	EM TEST	06.05.03	<input type="checkbox"/>
Capacitive coupling clamp	N/A	N/A	EM TEST	-	<input checked="" type="checkbox"/>

6.5.3 Test Data

Test Specification : EN 61000-4-4

Coupling

Power Signal Lines Telecommunication line

Test level

Power : ± 0.5 kV & ± 1 kV
 Signal Line : ± 0.25 kV & ± 0.5 kV & ± 1 kV
 Tel. line :

Test mode

- Power : L1, L2, L1-L2
- Signal line : Video

Burst frequency : 5 kHz, 5/50 ns

Coupling Time : > 120 s

Test Results

Complied Not complied

Comment :

- During the test, dot was appeared.

6.6 Surge

6.6.1 Measurement procedure

A ground reference plane was located on the floor.

SURGE generator was connected to reference ground plane via low impedance connection.

For floor standing equipment, EUT was placed on a 0.1 m wooden table.

For tabletop equipment, EUT was placed on a wooden table(0.8m) above the reference plane.

6.6.2 Used equipments

Equipment	Model No.	Serial No.	Makers	Next Cal. date	Used
Surge Generator	UCS 500 M6	0701-03	EM TEST	06.05.03	<input checked="" type="checkbox"/>
	RWG500 M6	0701-08	EM TEST	06.05.08	<input type="checkbox"/>
	TSS500 M4	0402-01	EM TEST	06.05.03	<input type="checkbox"/>
Coupling Clamp	CNV 508 S2	1001-10	EM TEST	06.05.16	<input checked="" type="checkbox"/>

6.6.3 Test Data

Test Specification : EN 61000-4-5

Coupling

Power Signal Line Telecommunication line

Test level

Power : $\pm 0.25 \text{ kV} \pm 0.5 \text{ kV} \& \pm 1 \text{ kV}$

Signal Line : $\pm 0.25 \text{ kV} \pm 0.5 \text{ kV} \& \pm 1 \text{ kV}$

Tel. line :

Test mode

- Power : L-N

- Signal Line : Video cable

Coupling Impedance

$40\Omega + 0.5\mu\text{F}$ 40Ω $10\Omega + 9\mu\text{F}$ $18\mu\text{F}$

Coupling Time : > 5 s

Number of Surge : 20

Angle : 0,45,90,135,180, 225, 270, 315

Test Results

Complied Not complied

Comment :

- During the test, dot was appeared.

6.7 Conducted Immunity

6.7.1 Measurement procedure

A ground reference plane was located on the floor.

For tabletop equipment, the test was performed on a ground reference plane on a 0.8m wooden table.

The EUT was isolated 0.1 m isolating support.

The ground plane was connected to floor reference ground plane via low impedance connection.

For floor standing equipment, EUT was placed on a 0.1 m wooden table.

This test were Performed using CDN for mains, clamp for signal. and injection probe.

6.7.2 Used equipments

Equipment	Model no.	Serial no.	Makers	Next Cal. date	Used
CS Generator	NSG 2070	1054	Schaffner	06.05.03	<input checked="" type="checkbox"/>
CDN	M016	16674	Schaffner	06.04.08	<input checked="" type="checkbox"/>
EM Clamp	KEMZ 801	17643	Schaffner	-	<input checked="" type="checkbox"/>

6.7.3 Test Data

Test Specification : EN 61000-4-6

Frequency Range

150 kHz - 100MHz 150 kHz - 230MHz 150 kHz - 500MHz

Test point: Power, Video cable

Coupling

Power : CDN
 Signal : Clamp
 Tel. line :

Test level

1V 3V 10V

Modulation

AM : 1kHz, 80%
 PM : 1Hz (0.5 s ON : 0.5 s OFF)

Frequency step

log 1% step log 3% step log 5% step

Dwell Time

3 s 2 s 1 s

Test Results

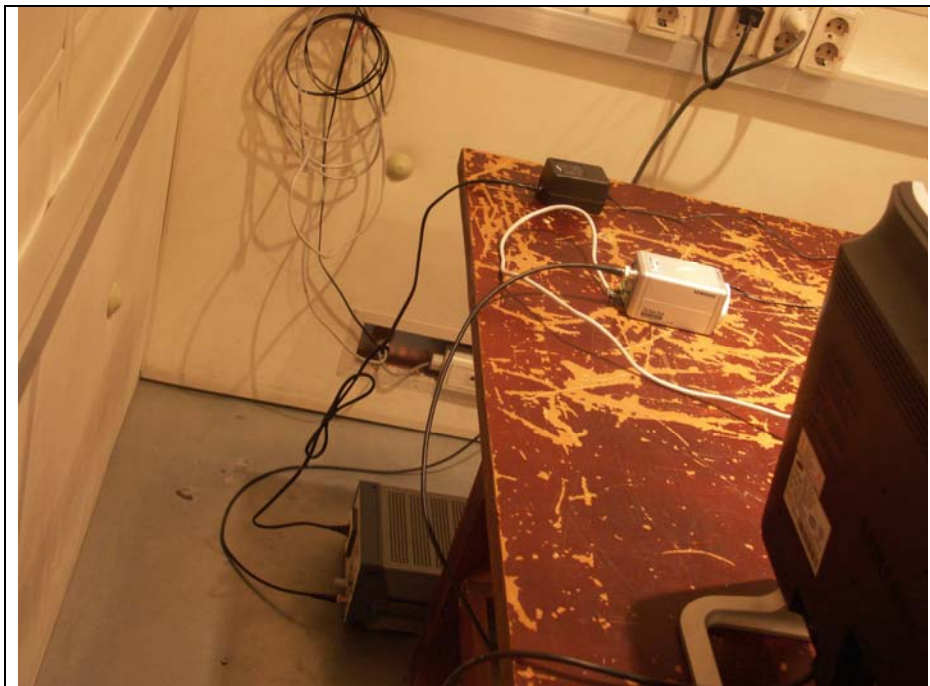
Complied Not complied

Comment :

- There was no change of operation status during above testing.

7. Test photographs

Conducted emission



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Radiated Emission



Electrostatic Discharge



Radio Frequency Electromagnetic Fields



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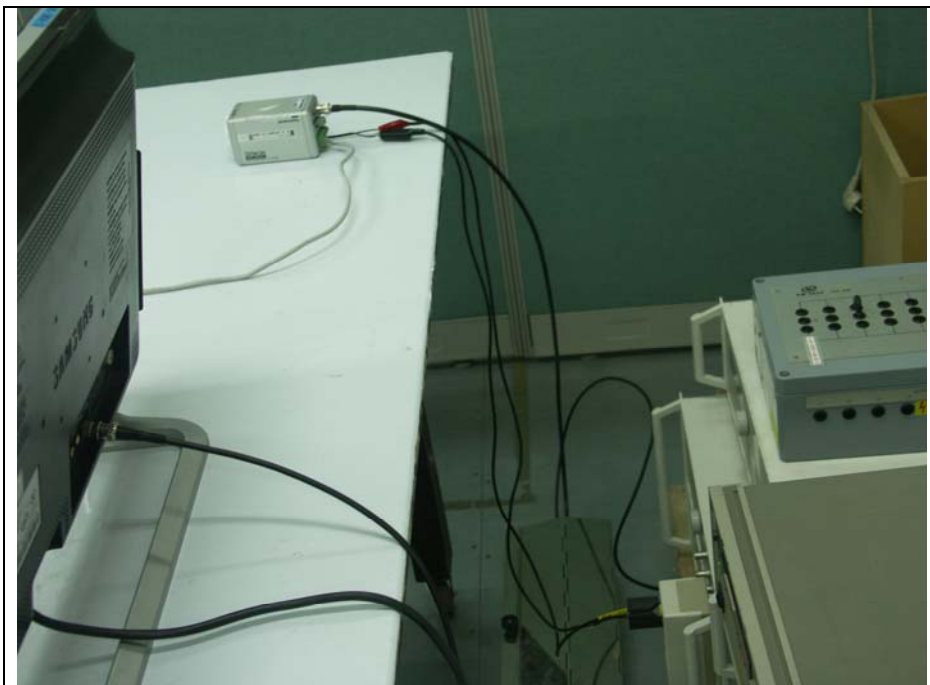
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Electric Fast Transient

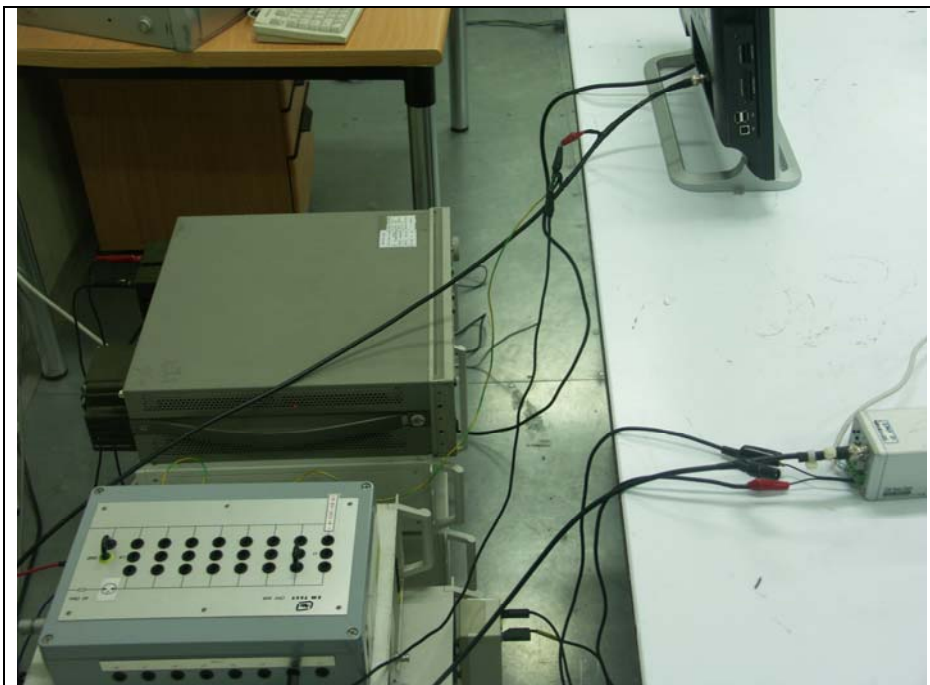
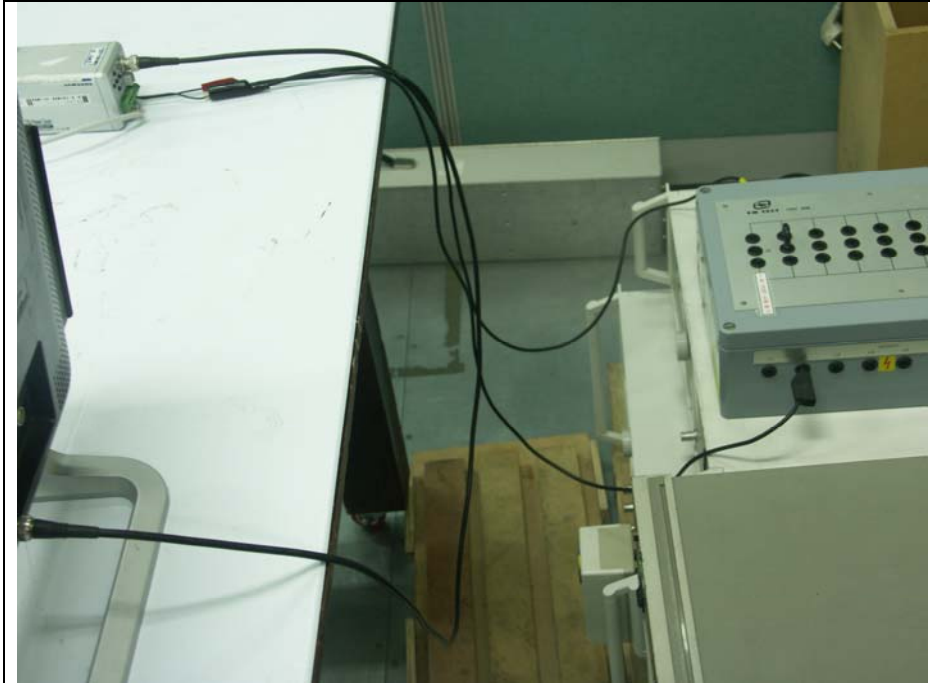
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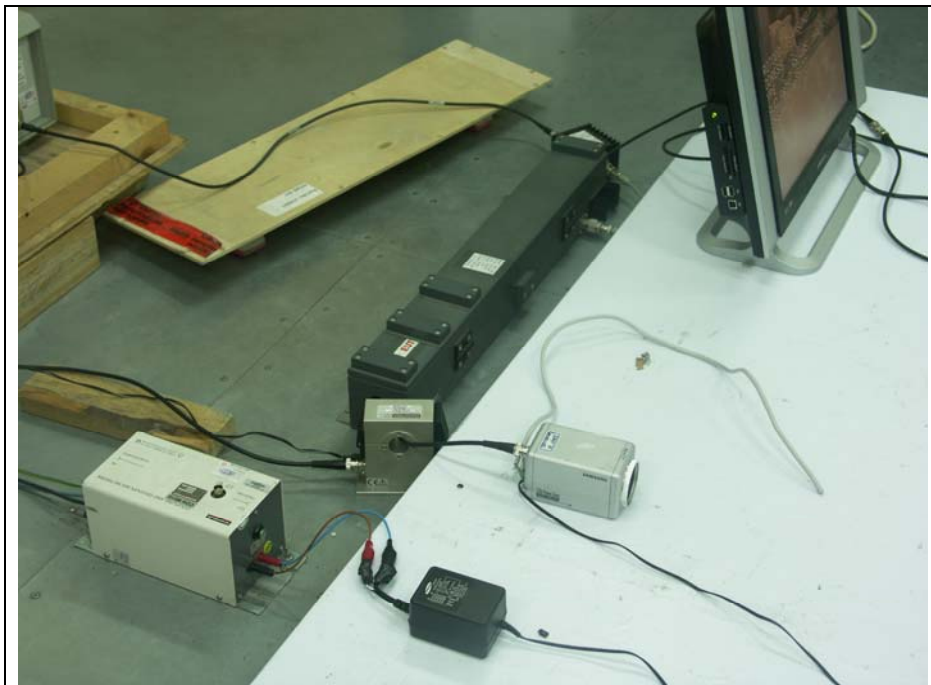
(CLAMP)



Surge



Conducted Immunity



8. E.U.T. photographs

EUT Exterior



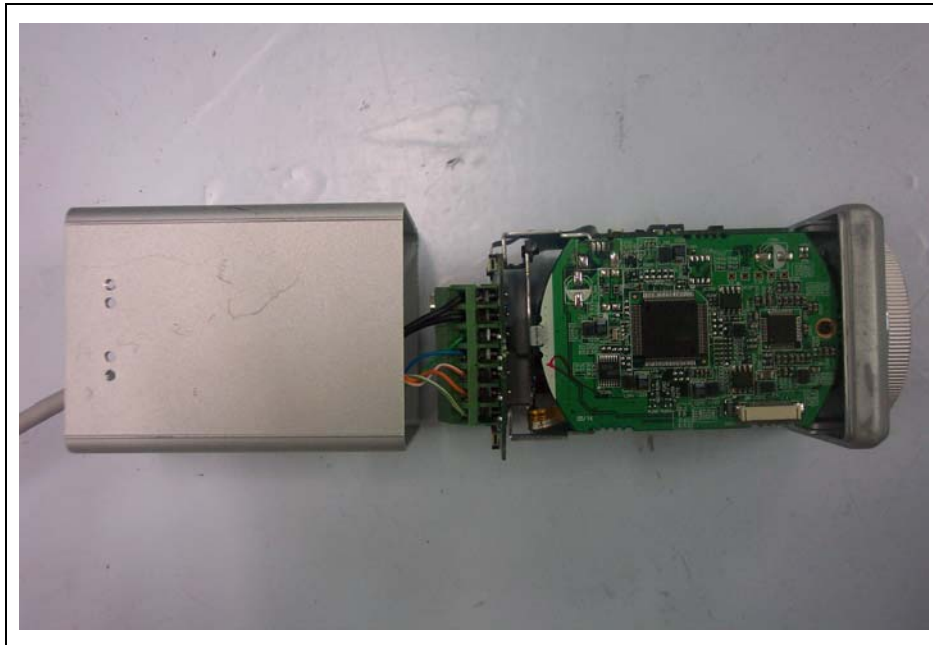
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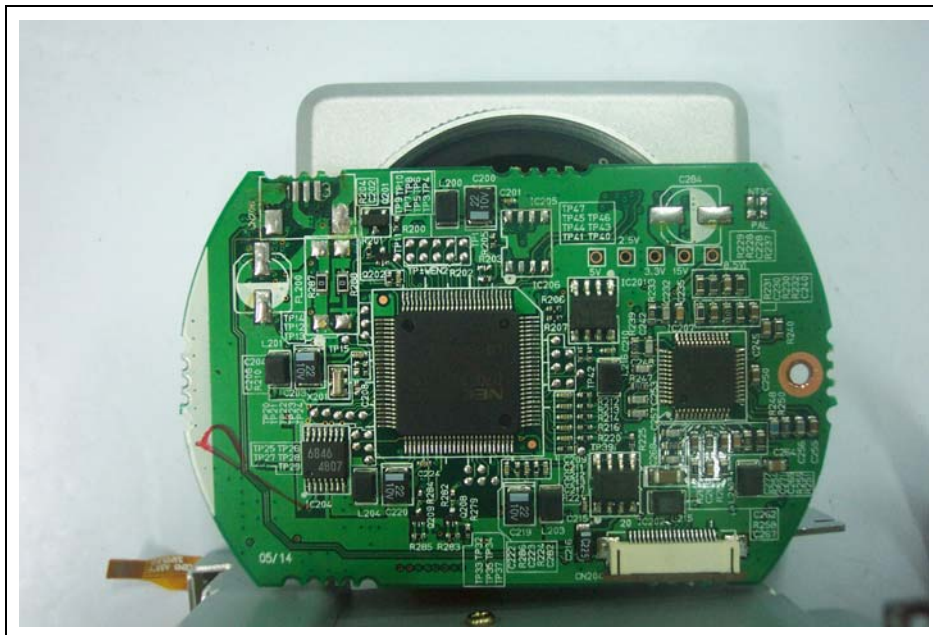
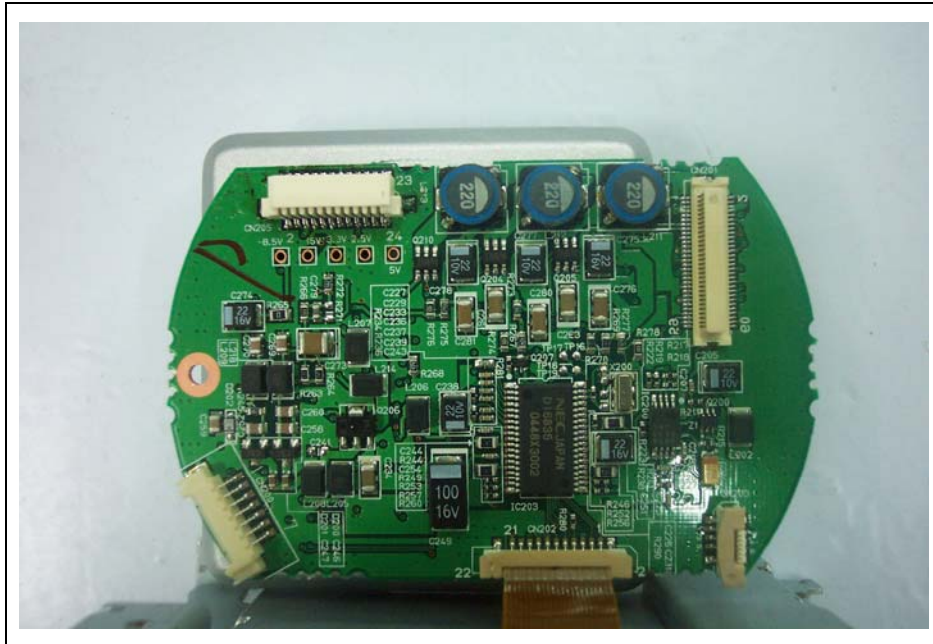
EUT Interior



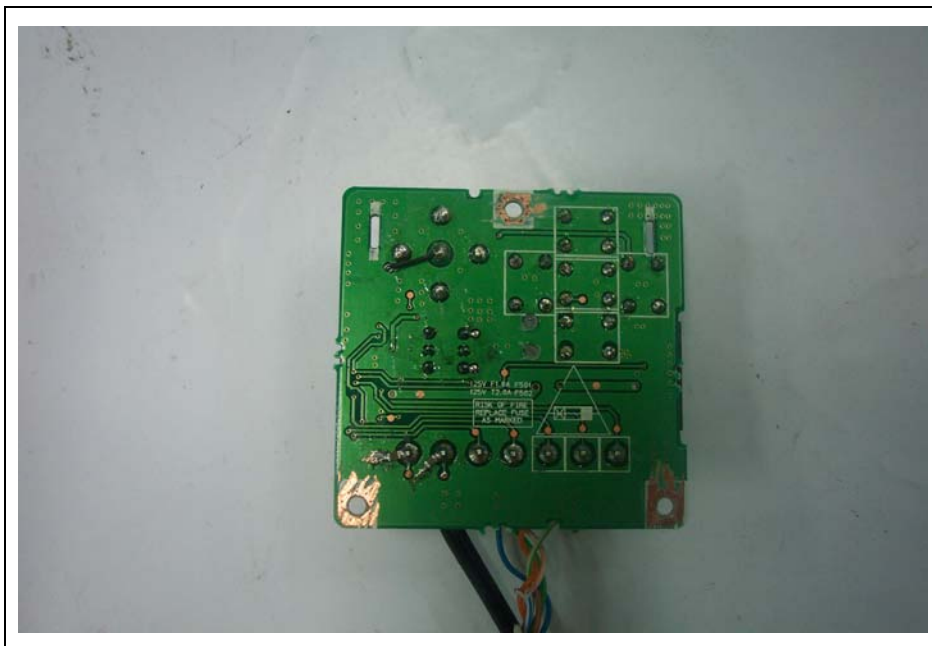
Main board#1



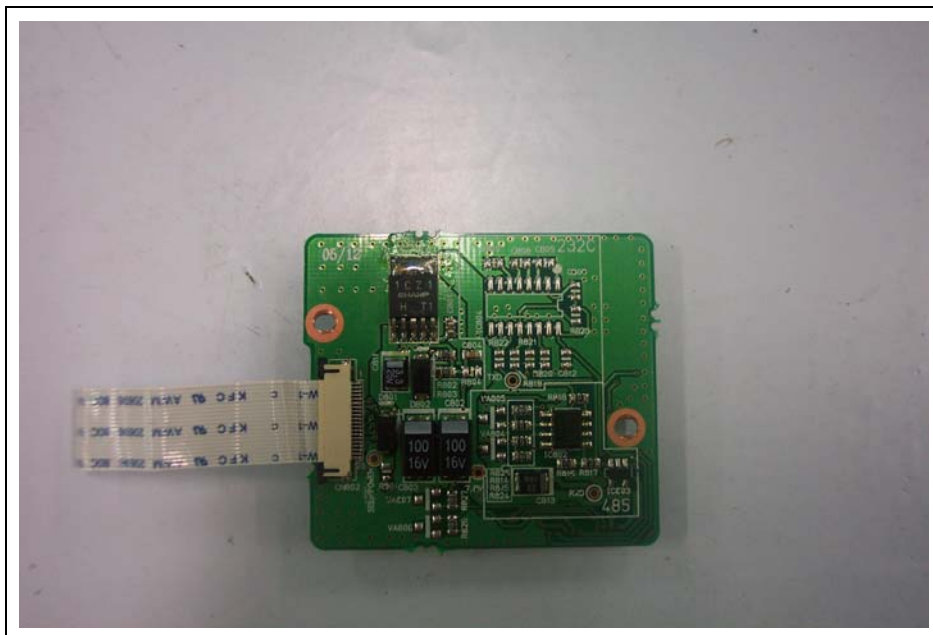
Main board#2



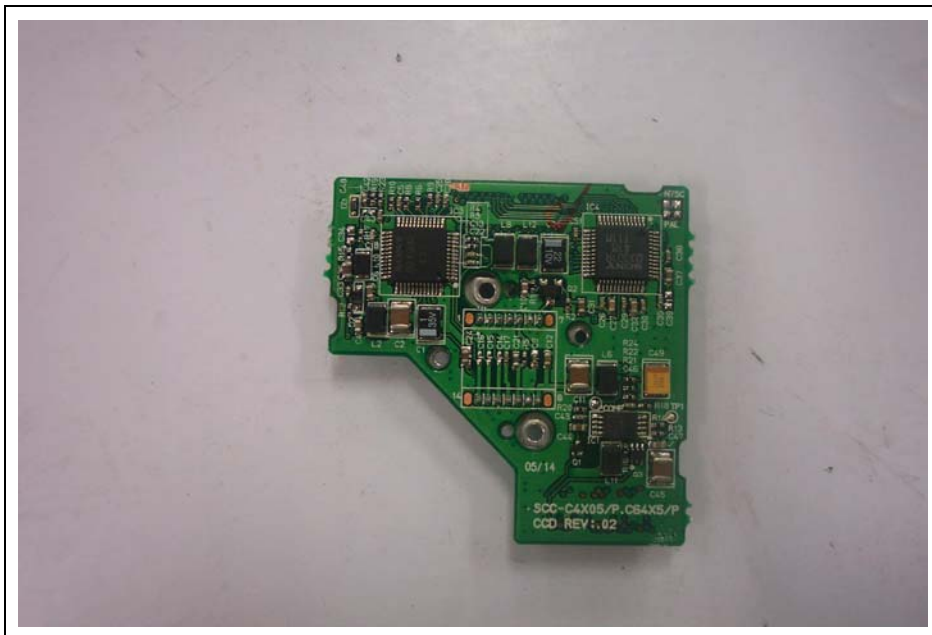
Signal Board



Sub Board



LANS



9. Appendix

Conducted Emission test graph

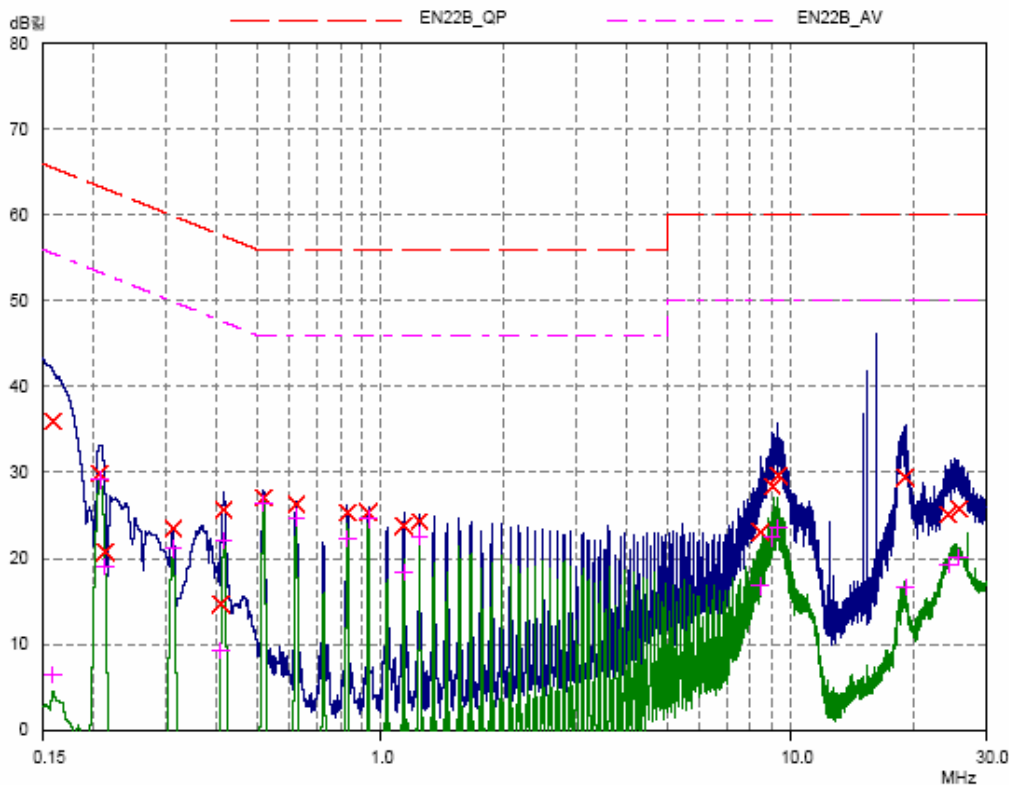
EUT: CCD CAMERA
 Manuf: SAMSUNG
 Op Cond: H
 Operator:
 Test Spec: EN22 Class B Conducted Emission
 Comment:

Result File: 0505031h.dat : SCC_C4205P

Scan Settings (2 Ranges)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	3MHz	3kHz	10kHz	PK+AV	10msec	Auto	OFF	60dB
3MHz	30MHz	10kHz	10kHz	PK+AV	5msec	Auto	OFF	60dB

Final Measurement: Detectors: X QP / + AV
 Meas Time: 1sec
 Peaks: 8
 Acc Margin: 25 dB



EUT: CCD CAMERA
 Manuf: SAMSUNG
 Op Cond: N
 Operator:
 Test Spec: EN22 Class B Conducted Emission
 Comment:

Result File: 0505031n.dat : SCC_C4205P

Scan Settings (2 Ranges)

Frequencies			Receiver Settings						
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
150kHz	3MHz	3kHz	10kHz	PK+AV	10msec	Auto	OFF	60dB	
3MHz	30MHz	10kHz	10kHz	PK+AV	5msec	Auto	OFF	60dB	

Final Measurement: Detectors: X QP / + AV
 Meas Time: 1sec
 Peaks: 8
 Acc Margin: 25 dB

