

TESTING CERTIFICATE

EMC Compliance Ltd.

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Certificate No.: EMC-CE-4332

Page(1) / (44) Pages

**1. Applicant**

Name: Samsung Techwin Co., Ltd.
Address: #42 Seongju-Dong, Changwon-Shi,
Kyungsangnam-Do, Korea
Date of Receipt: July 03, 2013

2. Manufacturer

Name#1: Samsung Techwin Co., Ltd.
Name#2: TIANJIN SAMSUNG TECHWIN
OPTO-ELECTRONIC CO., LTD

3. Use of Report:

Completed report

4. Test Sample:

Digital Video Recorder, SRD-880DP

5. Date of Test:

October 08, 2013

6. Test method used:

AS/NZS CISPR 22:2009+A1:2010, Class A

7. Testing Environment:

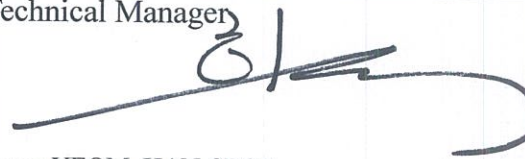
Temperature: (24.5 ± 0.5) °C,
Relative Humidity: (38.0 ~ 61.0) % R.H.

8. Test Results:

Refer to page 14 ~ page 27
(Measurement uncertainty: Refer to page 6)

This result shown in this report refer only to the sample(s) tested unless otherwise stated.

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EMC Compliance Laboratory.

Affirmation	Tested by  Name: PARK, GUN-SU	Technical Manager  Name: YEOM, HAN-SEOK
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The above test certificate is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

2013.10.15

EMC Compliance Ltd.

Accredited by KOLAS, Republic of KOREA



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1. Applicant information

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2. Laboratory information

Address

EMC compliance Ltd.

480-5 Sin-dong, Yeongtong-gu, Suwon-city, Gyeonggi-do, 443-390, Korea

Telephone Number: 82 31 336 9919

Facsimile Number: 82 505 299 8311

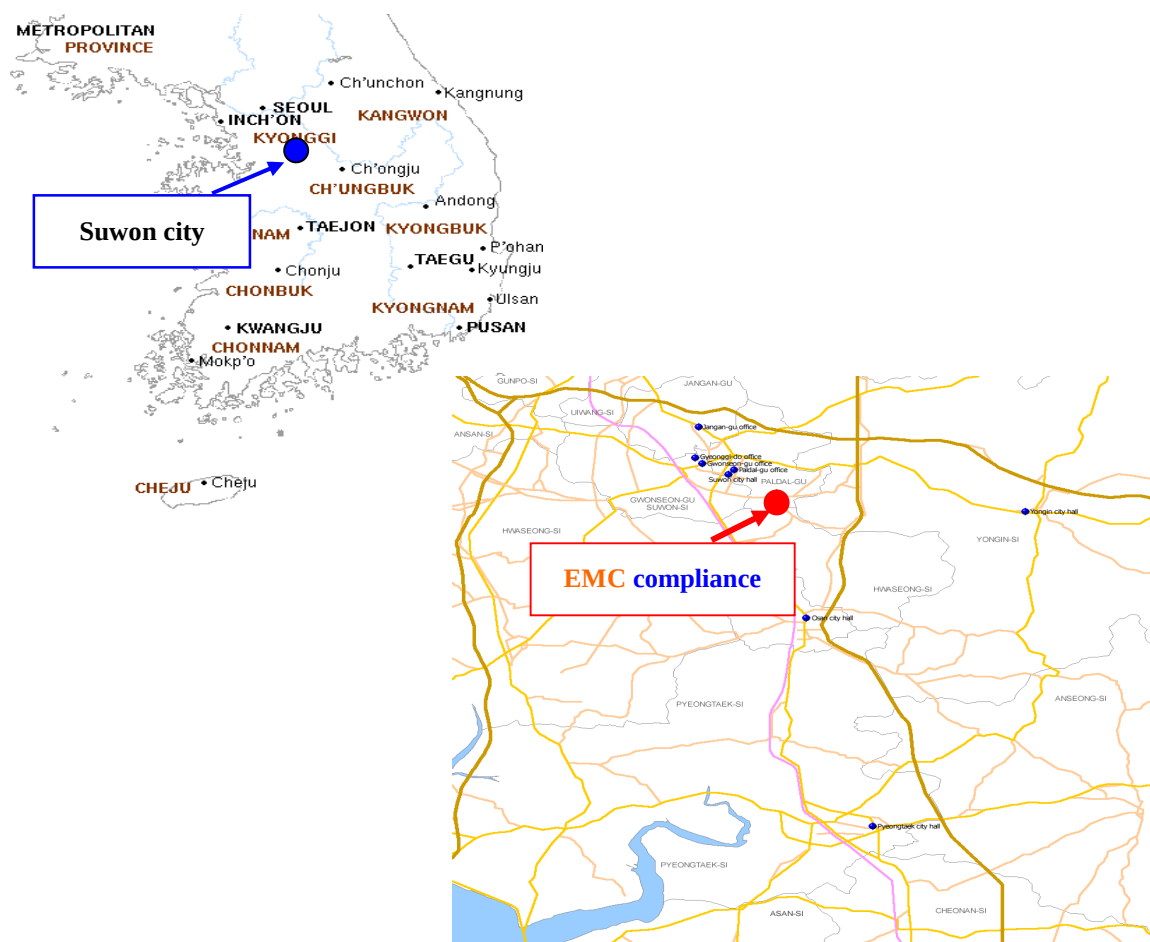
FCC CAB.: KR0040

VCCI Registration No. : R-3327, G-198, C-3706, T-1849

Industry Canada Registration No.: 8035A

KOLAS NO.: 231

SITE MAP



3. Test system configuration

3.1 Operation environment

	Temperature	Humidity	Pressure
Chamber(10 m)	: 23 °C	61 % R.H.	-
Shielded room(CE)	: 26 °C	38 % R.H.	-

Test site

These testing items were performed following locations;

Test item	Test site
Conducted Emission	Shielded Room
Radiated Emission	10 m Chamber

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 CISPR 16-4-2, the measurement uncertainty level with a 95 % confidence level was applied.

Conducted emission measurement (C.L: Approx 95 %, k = 2)		
Shielded Room (CE#1)	9 kHz ~ 150 kHz: ± 3.82 dB 150 kHz ~ 30 MHz: ± 3.43 dB	
Shielded Room (CE#2)	9 kHz ~ 150 kHz: ± 3.82 dB 150 kHz ~ 30 MHz: ± 3.43 dB	
Shielded Room (CE#3)	9 kHz ~ 150 kHz: ± 4.00 dB 150 kHz ~ 30 MHz: ± 3.63 dB	
Radiated Emission measurement (C.L: Approx 95 %, k = 2)		
10 m Chamber (#F4)	30 MHz ~ 300 MHz	3 m: + 4.56 dB, - 4.58 dB 10 m: + 4.56 dB, - 4.56 dB
	300 MHz ~ 1 000 MHz	3 m: + 4.84 dB, - 4.85 dB 10 m: + 4.71 dB, - 4.72 dB
	1 GHz ~ 6 GHz	3 m: + 6.19 dB, - 6.20 dB
10 m Chamber (#F2)	30 MHz ~ 300 MHz	3 m: + 4.86 dB, - 4.88 dB 10 m: + 4.86 dB, - 4.86 dB
	300 MHz ~ 1 000 MHz	3 m: + 4.98 dB, - 4.99 dB 10 m: + 4.85 dB, - 4.87 dB
	1 GHz ~ 6 GHz	3 m: + 6.19 dB, - 6.20 dB

4. Description of E.U.T.

4.1 General information

Model		SRD-880D
Platform		8CH
CPU	CPU	Hisilicon(1EA Hi3531 + 2EA Hi3532)
	Codec	
Design		New
Operation System		Embedded LINUX
Video Format		HD 1080P/720P/4CIF
Operation Model		Live/REC/PB/NW
Video In	Channel	8CH HD
	Connector Type	BNC 8 (HD)
	Loop Through	X
Video Out	Composite	X
	S-Video	X
	VGA	MAX. 1080P(60Hz)
	HDMI	MAX. 1080P(60Hz)
	Simultaneous Out	VGA and HDMI
Spot Out	Number	2
	Split Mode	SPOT1 : 1/4/9 SPOT2 : 1
	OSG	0
Audio In	Channel	8
	Connector Type	4CH RCA, 4CH D-sub
Audio Out	Channel	1
	Connector Type	RCA
Compression	Video	H.264
	Audio	G.711
	Codec Type	H/W
	Dual Codec	0
	Multi Stream	0
Live	Resolution	1080P/720P
	Frame Rate	240fps
	Split Mode	1/4/7/9/13/PIP
Recording	Resolution & Frame Rate	HD : 1080p (240fps) [720p (240fps)]
	Quality Level	8Level(LV1~LV8)
	REC Mode	1. Normal REC 2. Schedule REC 3. Event REC - Motion/Alarm/Video Loss 4. Pre REC - Off/5/10/20/30sec 5. Post REC - 5/10/20/30sec - 1/2/3/5/60min 6. Time Laps REC - 1,2,3,..., 29,30 fps
		1.各Channel 可以分别设定 - Resolution - Frame Rate
	Function	

PLAY BACK	Resolution & Frame Rate	HD : 1080p (120fps)
	Search Mode	1. Time Search - Date/Time - Go to First/Go to Last - Calendar - Time Bar 2. Event Search - Motion/Alarm/Video Loss 3. Backup Search - USB Memory - USB External HDD
	Tric Mode	1. Play/Pause/Stop 2. Fast Forward/Backward - x2/x4/x8/x16/x32/x64 3. Slow Forward/Backward - x1/2, x1/4, x1/8 4. Step Play - Forward : I+P frame - Backward : I frame
Storage	Internal	1. Max Capacity : 2TB 2. Install HDD : 4EA (中国向8EA) 3. Packing : No HDD (中国向1EA 1T)
	External	1. USB 2.0 I/F 2. E-SATA 3. Max Capacity : 2TB
Backup	USB	1. USB 2.0 2. Memory : Max 32G 3. External HDD : Max 1TB
	Format	1. SEC 2. DVR 3. AVI
Remote Viewer	Network	10/100/1000 Mbps Ethernet
	Transmit Speed	MAX 1080p 240fps and 4CIF 240fps
	Connection No	10 (Admin 1 + User 9)
	Connection Mode	1. Static IP 2. Dynamic IP 3. ADSL
	Protocol	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP, UPnP
	Webviewer	IE, Safari, Chrome, Firefox
	Mobile	iPOLIS Mobile
	Smart TV	TBD
PTZ Control	I/F	RS-485
	Protocol	Samsung/Vicon/Panasonic/AD/Philips/ Erna/Pelco D/Pelco P/ctrl/Diamond/ Kalatel/Samsung Techwin

External Device	POS	0
	ATM	0
Intelligent Video		0
Camera	I/F	I2C
	Protocol	Not Defiend
In/Out	USB	2
	RS-485	1
	RS-232C	1
	E-SATA	2
	Alarm In	8
	Alarm Out	4
The Other Function		1.Tool Bar 2.Pop Menu 3.S/W Upgrade - USB 4.Live & Network Monitoring without HDD
Electrical	Power Type	100 ~ 240VAC ATX inside
	Power	TBD
	Input Voltage	100 ~ 240VAC
	Operation Condition	Temperature 0~40℃ Humidity 20~85%RH
Mechanical	Dimensions (WxHxD)	TBD
	Net Weight	TBD
	Packing List	1.LAN Cable 2.Power Cord 3.Remocon 4.Mouse(Included Camera)
		5.Quick Guide 6.CD(User Manual, Quick Guide, Router Guide) 7.Cushion 8.PE Back

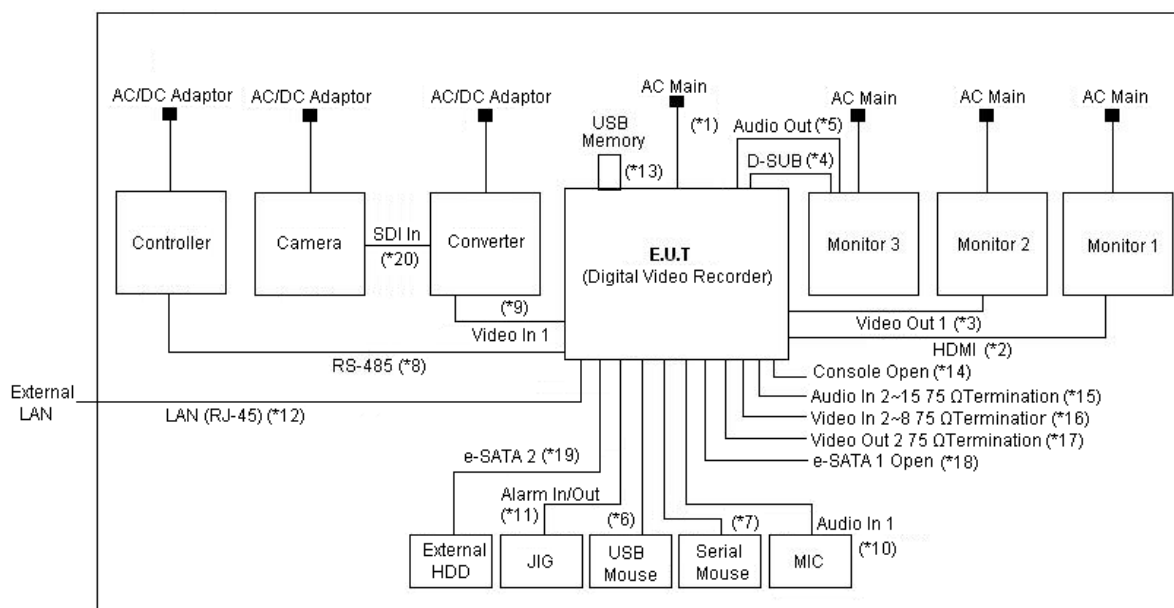
4.2 Product description

Type of product	Digital Video Recorder
Model name (Basic)	SRD-880DP
Model name (Variant)	-
Difference	-
Trade name	-
Serial no	Engineering Sample
Testing voltage	240 V , 50 Hz
Product rating	AC 100 - 240 V , 50/60 Hz
Internal clock frequency	Above 108 MHz
Note	-

4.3 Auxiliary equipments

Type	Model / Part #	Serial number	Manufacturer
Monitor 1	2693HM	N935H1KQ700971L	SAMSUNG
Monitor 2	PM24KO	YER8HVDBA00052A	SAMSUNG
Monitor 3	PM24KO	ZQ9XH1HBB00353H	SAMSUNG
Controller	SCC-1000	EW089028913	SAMSUNG
Camera	SCB-6000	-	SAMSUNG
Converter	HSC1200	21SCTS037RH	-
USB Mouse	MO56UO	520113167	DELL
Serial Mouse	Microsoft HOME	489798	Microsoft Corp.
MIC	-	-	-
JIG	-	-	-
External HDD	Spro	-	Valueplus
USB Memory(4GB)	-	-	-

4.4 Test configuration



Note	Start		End		Cable	
*	Name	I/O port	Name	I/O port	Length (m)	Spec.
1	EUT (Digital Video Recorder)	Power	AC Main	Power	2.0	Non-Shield
2		HDMI	Monitor 1	HDMI	2.0	Shield
3		Video Out 1	Monitor 2	Video In	3.0	Shield
4		D-SUB	Monitor 3	D-SUB	1.5	Shield
5		Audio Out	Monitor 3	Audio In	1.5	Shield
6		USB	USB Mouse	USB	1.5	Shield
7		Serial	Serial Mouse	Serial	1.5	Shield
8		RS-485	Controller	RS-485	3.0	Non-Shield
9		Video In 1	Converter	Video Out	3.0	Shield
10		Audio In 1	MIC	Audio Out	1.5	Shield
11		Alarm In/Out	JIG	Alarm In/Out	3.0	Non-Shield
12		LAN(RJ-45)	External LAN	LAN(RJ-45)	3.0	Non-Shield
13		USB	USB Memory	USB	Direct	-
14		Console	Open	-	2.0	Non-Shield
15		Audio In 2~15	75 Ω Termination	-	1.5	Shield
16		Video In 2~8	75 Ω Termination	-	3.0	Shield
17		Video Out 2	75 Ω Termination	-	3.0	Shield
18		e-SATA 1	Open	-	0.5	Shield
19		e-SATA 2	External HDD	e-SATA 2	1.0	Shield
20	Converter	SDI In	Camera	SDI Out	1.0	Shield

4.5 Operating conditions

The EUT was configured as normal intended use.

Test mode	Normal operating
1	Web view monitoring test.
	Ping test.
	Controller test.
	Alarm & Audio In/Out test.

5. Summary of test results

5.1 Summary of EMI emission test results

Applied	Test items	Test method	Result
☒	Conducted Emission	AS/NZS CISPR 22:2009+A1:2010, Class A	14 Page ~ 21 Page
☒	Radiated Emission	AS/NZS CISPR 22:2009+A1:2010, Class A	22 Page ~ 27 Page

6. Test results

6.1 Conducted Emission

Test specification	AS/NZS CISPR 22:2009+A1:2010, Class A		
Testing voltage	240 V, 50 Hz		
Test facility	Shielded room (CE#1)		
Date	2013. 10. 08		
Temperature (°C)	26 °C	Humidity (% R.H.)	38 % R.H.
Remarks	Complied		

6.1.1 Limits of conducted emission measurement

☒ AC main

Frequency MHz	Class A $\text{dB}\mu\text{V}$		Class B $\text{dB}\mu\text{V}$	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79	66	66 ~ 56 *	56 ~ 46*
0.5 ~ 5	73	60	56	46
5 ~ 30	73	60	60	50

*The limit decreases linearly with the logarithm of frequency.

☒ Telecommunication

Frequency MHz	Class A Voltage Limits $\text{dB}\mu\text{V}$		Current Limits $\text{dB}\mu\text{A}$	
	Quasi-Peak	Average	Quasi-Peak	Average
0.15 ~ 0.5	97 to 87	84 to 74	53 to 43	40 to 30
0.5 ~ 30	87	74	43	30
Frequency MHz	Class B Limits $\text{dB}\mu\text{V}$		Current Limits $\text{dB}\mu\text{A}$	
	Quasi-Peak	Average	Quasi-Peak	Average
0.15 ~ 0.5	84 to 74	74 to 64	40 to 30	30 to 20
0.5 ~ 30	74	64	30	20

* The limits decrease linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz

* The current and voltage disturbance limits are derived for use with an impedance stabilization Network (ISN) which presents a common mode (asymmetric mode) impedance of 150 Ω to the telecommunication port under test (conversion factor is $20 \log_{10} 150/I = 44 \text{ dB}$).

6.1.2 Measurement procedure

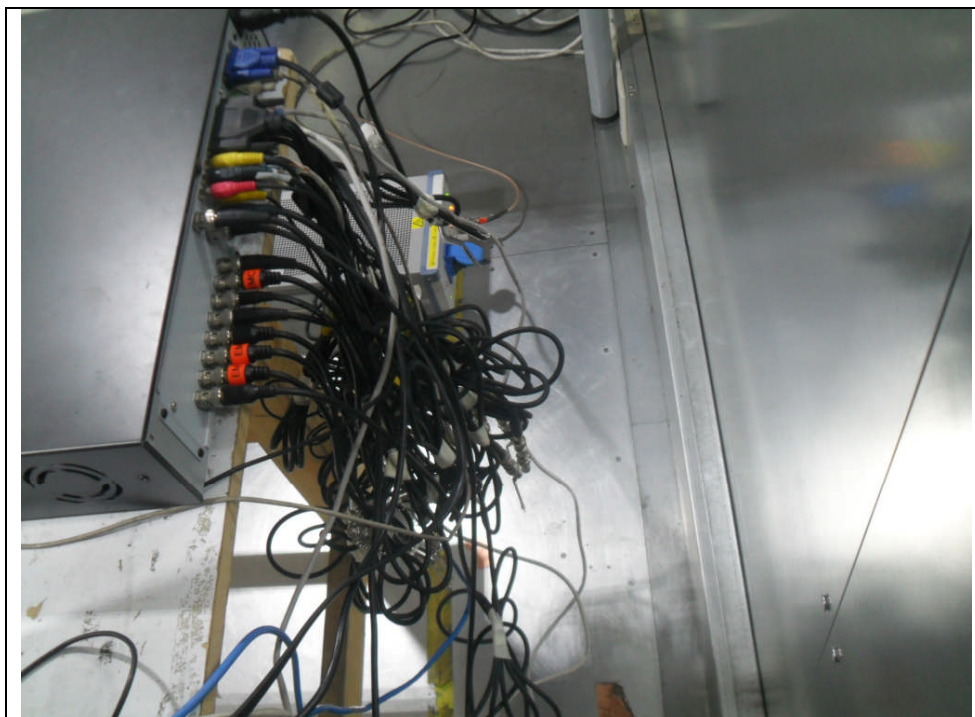
The measurements were performed in a shielded room. EUT was setup as shown in photograph and placed on a non-metallic table height of 0.8 m above the reference ground plane. The rear of table was located 0.4 m to the vertical conducted plane. EUT was power through the LISN, which was bonded to the ground plane. The LISN power was filtered. Each EUT power lead, except ground (safety) lead was individually connected through a LISN to input power source. EUT signal cables that hung closer than 0.4 m to the Horizontal metal ground 0.3 m ~ 0.4 m long. The power cord was bundles in the center. All peripheral equipment was powered from a sub LISN. The LISN and ISN were positioned 0.8 m from the EUT. Peak and Average detection were used in preliminary testing and Quasi-peak and Average detections were used at final measurement. Both lines of power cord, hot and neutral, were measured.

6.1.3 Used equipments

Equipment	Model	Serial No.	Makers	Next Cal. Date	Used
Test Receiver	ESHS30	828765/009	R&S	2013.10.22	☐
Test Receiver	ESCI7	100732	R&S	2014.02.18	☐
Test Receiver	ESCI	100001	R&S	2014.07.25	☐
Test Receiver	ESCI	100710	R&S	2013.11.06	☒
LISN	ENV216	101358	R&S	2014.10.04	☒
LISN	ESH3-Z5	100267	R&S	2014.07.08	☒
8-WIRE ISN	NTFM 8158 CAT5	CAT5-8158-0048	SCHWARZBECK	2013.10.30	☒
8-WIRE ISN	NTFM 8158 CAT3	CAT3-8158-0020	SCHWARZBECK	2014.04.13	☒
ISN	ST08	24342	TESEQ	2014.06.21	☐
ISN	ENY81	101545	R&S	2014.08.29	☒

6.1.4 Photographs of test setup

* AC Main

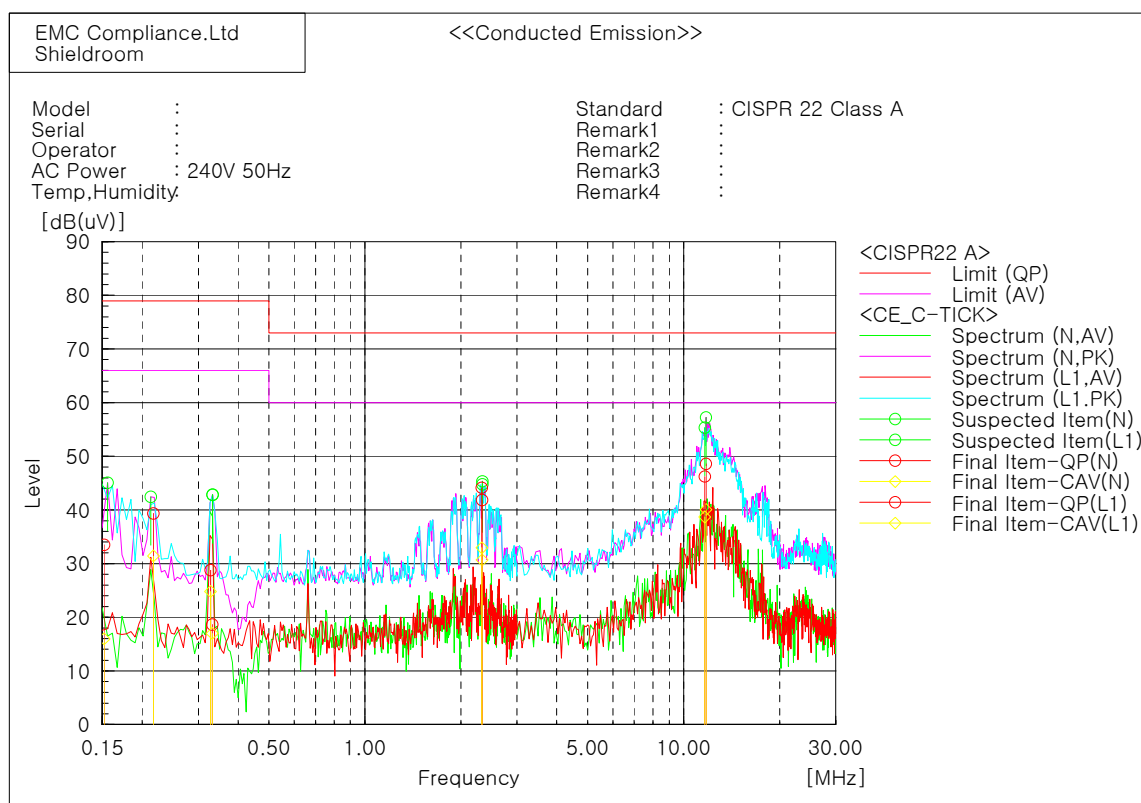


* Telecommunication



6.1.5 Conducted emission measurement result

* AC Main (SRD-880DP)

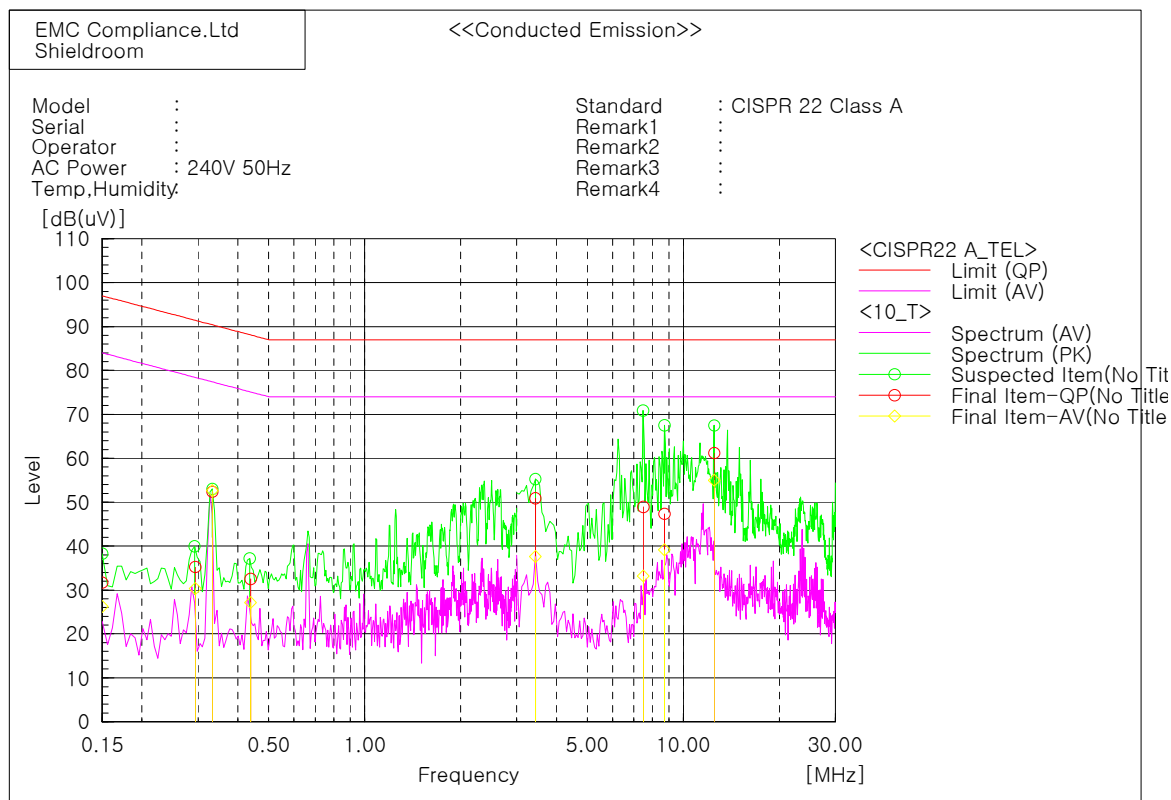


Final Result

--- N Phase ---										
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]	[dB]
1	0.15176	23.8	6.2	9.7	33.5	15.9	79.0	66.0	45.5	50.1
2	0.21684	29.4	21.5	9.9	39.3	31.4	79.0	66.0	39.7	34.6
3	0.328	18.8	14.8	10.0	28.8	24.8	79.0	66.0	50.2	41.2
4	2.3321	32.7	21.6	9.1	41.8	30.7	73.0	60.0	31.2	29.3
5	11.74392	38.8	30.3	9.8	48.6	40.1	73.0	60.0	24.4	19.9
--- L1 Phase ---										
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]	[dB]
1	0.3317	8.7	7.0	10.0	18.7	17.0	79.0	66.0	60.3	49.0
2	2.32822	34.5	23.4	9.6	44.1	33.0	73.0	60.0	28.9	27.0
3	11.64074	36.5	29.0	9.7	46.2	38.7	73.0	60.0	26.8	21.3

* Telecommunication port (SRD-880DP)

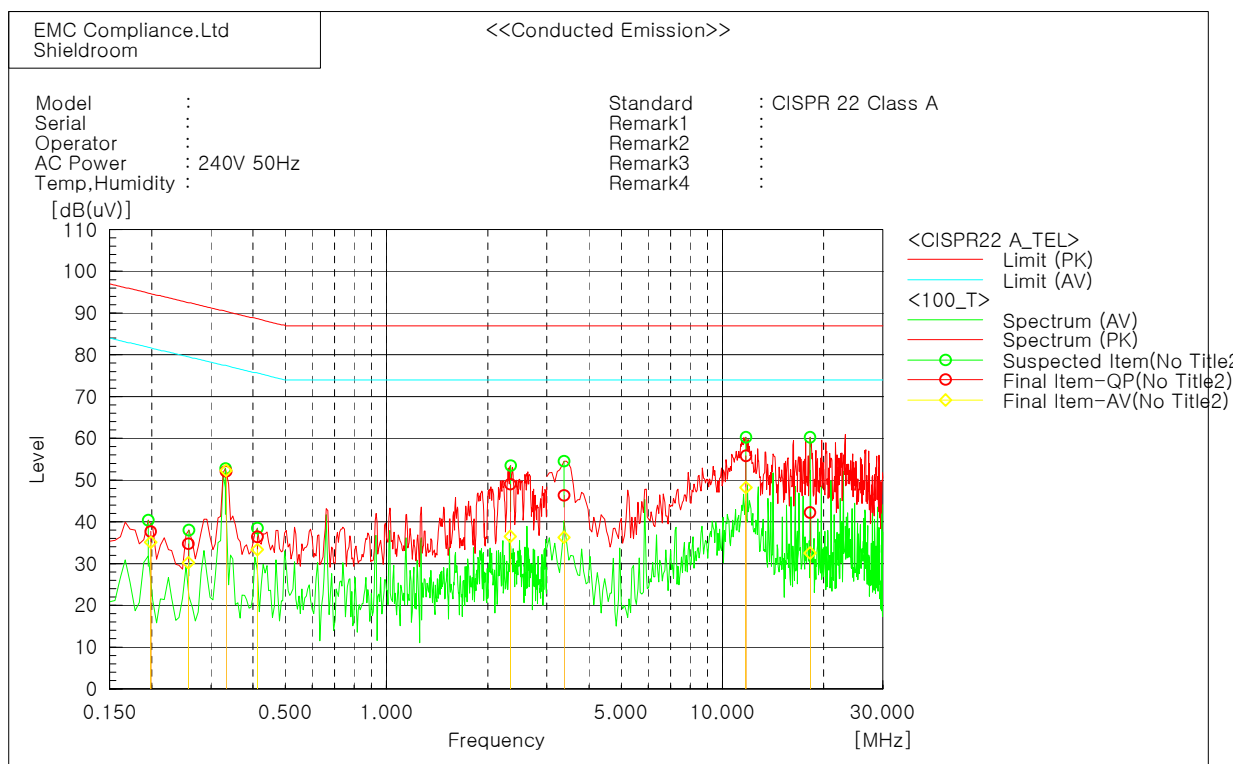
* LCL 55 dB (RJ-45 Port)_10 Mbps



Final Result

--- CAT3 Phase ---										
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]	[dB]
1	0.1501	21.1	15.7	10.6	31.7	26.3	97.0	84.0	65.3	57.7
2	0.29392	24.9	20.0	10.3	35.2	30.3	91.4	78.4	56.2	48.1
3	0.33256	42.1	42.3	10.3	52.4	52.6	90.4	77.4	38.0	24.8
4	0.43844	22.3	17.0	10.2	32.5	27.2	88.1	75.1	55.6	47.9
5	3.43362	41.0	27.7	9.9	50.9	37.6	87.0	74.0	36.1	36.4
6	7.48672	39.4	23.7	9.5	48.9	33.2	87.0	74.0	38.1	40.8
7	8.72166	37.8	29.6	9.5	47.3	39.1	87.0	74.0	39.7	34.9
8	12.49984	51.7	45.5	9.5	61.2	55.0	87.0	74.0	25.8	19.0

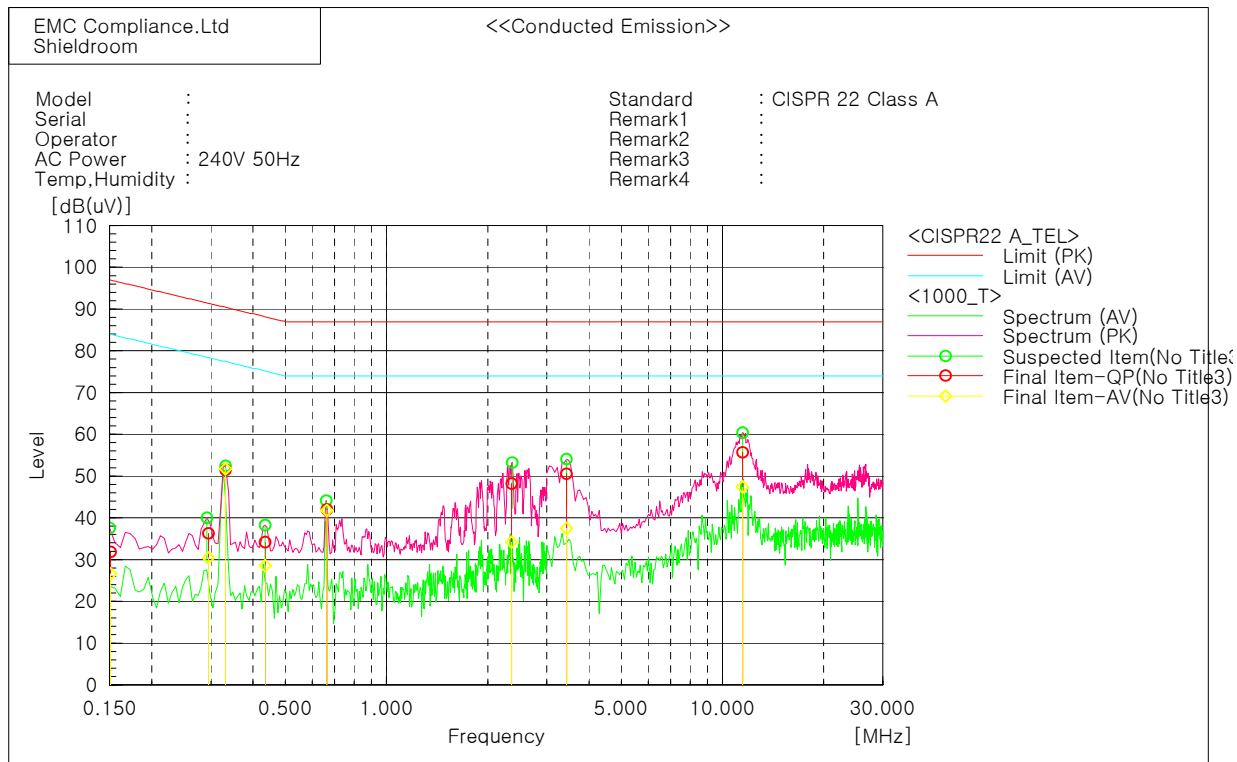
* LCL 65 dB (RJ-45 Port)_100 Mbps



Final Result

--- ISN-CAT5 Phase ---											
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV	
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]	
1	0.19896	27.3	24.8	10.3	37.6	35.1	94.7	81.7	57.1	46.6	
2	0.25742	24.6	20.0	10.2	34.8	30.2	92.5	79.5	57.7	49.3	
3	0.33258	42.0	42.3	10.1	52.1	52.4	90.4	77.4	38.3	25.0	
4	0.41234	26.4	23.4	10.0	36.4	33.4	88.6	75.6	52.2	42.2	
5	2.3356	39.4	26.9	9.7	49.1	36.6	87.0	74.0	37.9	37.4	
6	3.3739	36.7	26.6	9.7	46.4	36.3	87.0	74.0	40.6	37.7	
7	11.74312	46.2	38.6	9.6	55.8	48.2	87.0	74.0	31.2	25.8	
8	18.22856	32.6	22.9	9.7	42.3	32.6	87.0	74.0	44.7	41.4	

* LCL 75 dB (RJ-45 Port)_1000 Mbps



Final Result

--- ENY81-CAT6 Phase ---											
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV	
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]	
1	0.15093	21.6	16.4	10.2	31.8	26.6	96.9	83.9	65.1	57.3	
2	0.29478	26.3	20.6	9.9	36.2	30.5	91.4	78.4	55.2	47.9	
3	0.33234	41.6	41.8	9.9	51.5	51.7	90.4	77.4	38.9	25.7	
4	0.43588	24.4	18.8	9.8	34.2	28.6	88.1	75.1	53.9	46.5	
5	0.66348	32.3	32.1	9.7	42.0	41.8	87.0	74.0	45.0	32.2	
6	2.3577	38.6	24.6	9.6	48.2	34.2	87.0	74.0	38.8	39.8	
7	3.42766	41.0	27.9	9.6	50.6	37.5	87.0	74.0	36.4	36.5	
8	11.47512	46.1	37.8	9.6	55.7	47.4	87.0	74.0	31.3	26.6	

6.2 Radiated Emission

Test specification	AS/NZS CISPR 22:2009+A1:2010, Class A		
Testing voltage	240 V, 50 Hz		
Test facility	10 m Chamber (#F2)		
Test distance	10 m, 3 m		
Date	2013. 10. 08		
Temperature (°C)	23 °C	Humidity (% R.H.)	61 % R.H.
Remarks	Complied		

6.2.1 Limits of radiated emission measurement

☒ Limits below 1 GHz

Frequency MHz	Class A dB μ V/m @ 10 m	Class B dB μ V/m @ 10 m
30 ~ 230	40	30
230 ~ 1 000	47	37

☒ Limits above 1 GHz

Frequency MHz	Class A @ 3 m		Class B @ 3 m	
	Average limit dB μ V/m	Peak limit dB μ V/m	Average limit dB μ V/m	Peak limit dB μ V/m
1 ~ 3	56	76	50	70
3 ~ 6	60	80	54	74

Note - The lower limit applies at the transition frequency.

6.2.2 Measurement procedure

The test was done at a 10 m chamber with a quasi-peak detector. EUT was placed on a non-metallic table height of 0.8 m above the reference ground plane. Cables were folded back and forth forming a bundle 0.3 m to 0.4 m long and were hanged at a 0.4 m 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.

6.2.3 Used equipments

Equipment	Model no.	Serial no.	Makers	Next Cal. Date	Used
Test Receiver	ESCI7	100732	R&S	2014.02.18	☐
Test Receiver	ESCI	100001	R&S	2014.07.25	☐
Test Receiver	ESCI	100710	R&S	2013.11.06	☒
Bi-Log Antenna	VULB 9163	552	SCHWARZBECK	2014.07.18	☒
Amplifier	310N	293004	SONOMA INSTRUMENT	2013.11.06	☒
3 dB Attenuator	8491B	22981	HP	2014.03.19	☒
Antenna Mast	MA4000-EP	303	Innco Systems	-	☒
Turn Table	DT2000S-1t	079	Innco Systems	-	☒
Amplifier	8449B	3008A02343	AGILENT	2013.11.06	☒
Horn ANT	3115	00155772	ETS	2014.03.20	☒
Spectrum Analyzer	FSP7	100289	R&S	2013.12.14	☒

6.2.4 Sample calculation

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 follow:

$$\text{Result} = \text{M.R} + \text{C.F}(\text{A.F} + \text{C.L} + 3 \text{ dB Att} - \text{A.G})$$

M.R = Meter Reading

C.F = Correction Factor

A.F = Antenna Factor

C.L = Cable Loss

A.G= Amplifier Gain

3 dB Att = 3 dB Attenuator

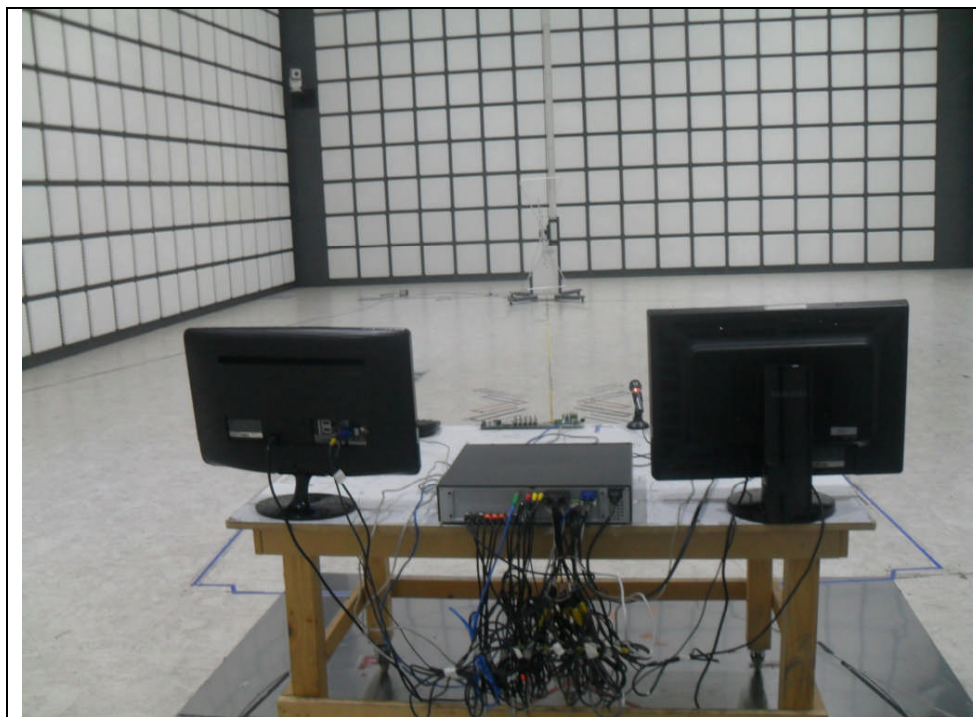
If M.R is 30 dB, A.F 12 dB, C.L 5 dB, 3 dB, A.G 35 dB

The result is

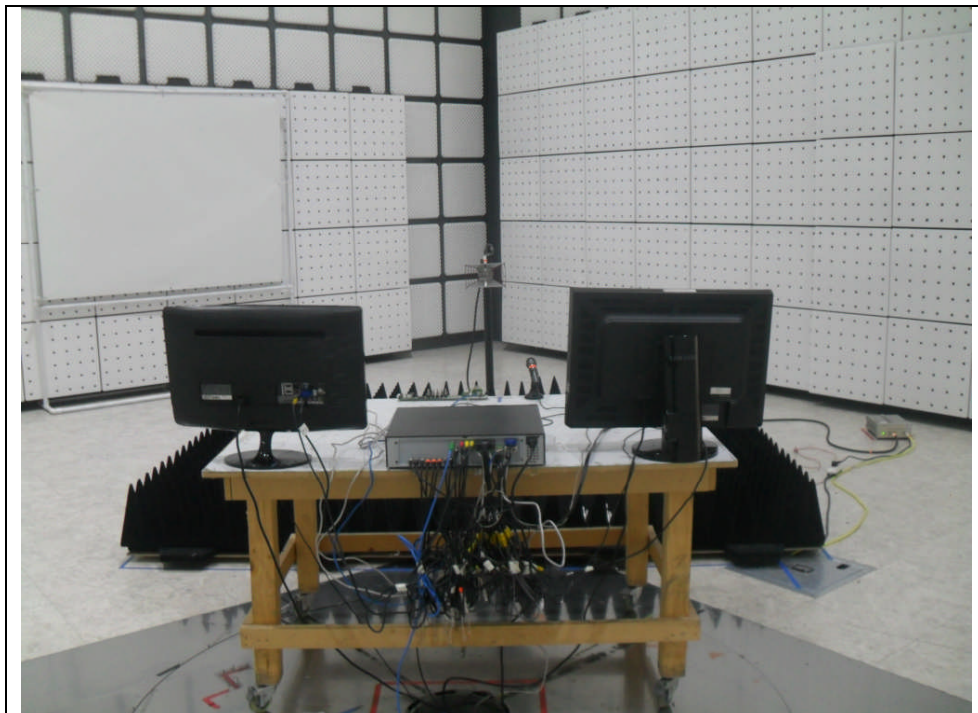
$$30 + 12 + 5 + 3 - 35 = 15 \text{ dB}\mu\text{V/m}$$

6.2.5 Photographs of test setup

* 30 MHz ~ 1 GHz



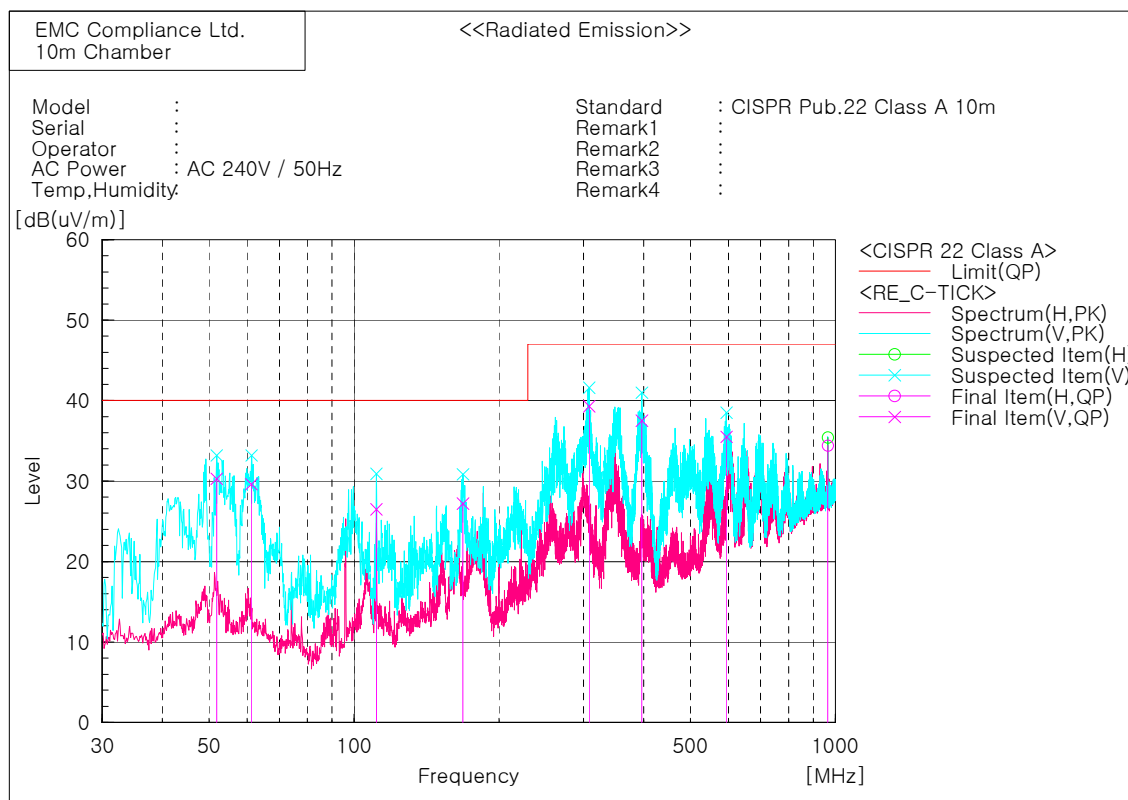
* 1 GHz ~ 6 GHz



6.2.6 Radiated emission measurement result

* Graph and Data

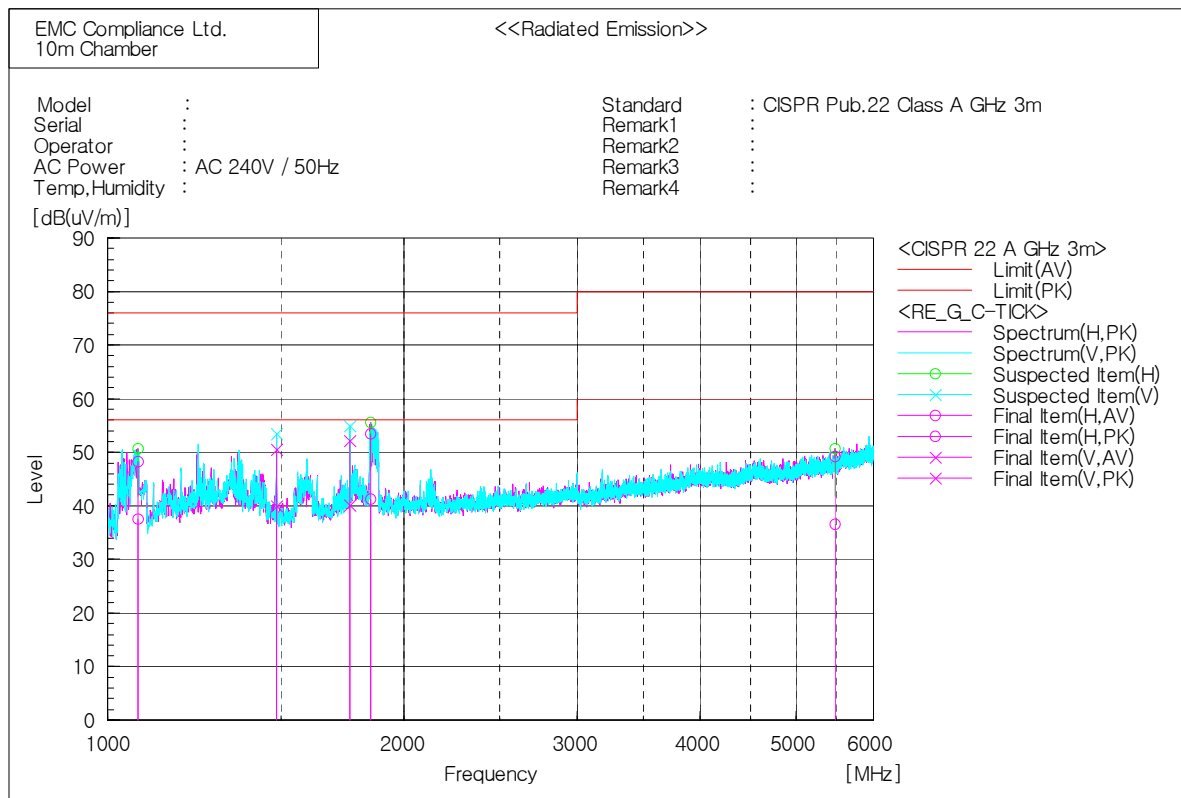
* 30 MHz ~ 1 GHz (SRD-880DP)



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	51.818	V	44.6	-14.3	30.3	40.0	9.7	299.0	203.2
2	61.207	V	44.3	-14.7	29.6	40.0	10.4	399.0	256.6
3	111.366	V	43.5	-17.0	26.5	40.0	13.5	100.0	79.3
4	168.451	V	40.9	-13.7	27.2	40.0	12.8	299.0	13.4
5	308.119	V	51.1	-11.8	39.3	47.0	7.7	100.0	232.2
6	396.125	V	46.9	-9.4	37.5	47.0	9.5	399.0	261.2
7	593.681	V	39.8	-4.3	35.5	47.0	11.5	399.0	256.6
8	965.320	H	31.9	2.5	34.4	47.0	12.6	100.0	86.3

* 1 GHz ~ 6 GHz (SRD-880DP)



Final Result

No.	Frequency [MHz]	(P)	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]
1	1073.125	H	46.0	56.7	-8.4	37.6	48.3	56.0	76.0	18.4	27.7	100.0	358.9
2	1485.000	V	44.5	55.1	-4.6	39.9	50.5	56.0	76.0	16.1	25.5	100.0	23.8
3	1763.125	V	43.0	54.9	-2.8	40.2	52.1	56.0	76.0	15.8	23.9	100.0	5.8
4	1850.625	H	43.5	55.6	-2.2	41.3	53.4	56.0	76.0	14.7	22.6	100.0	31.8
5	5483.125	H	27.2	40.0	9.3	36.5	49.3	60.0	80.0	23.5	30.7	100.0	346.5

7. E.U.T. photographs

Front View



Rear View



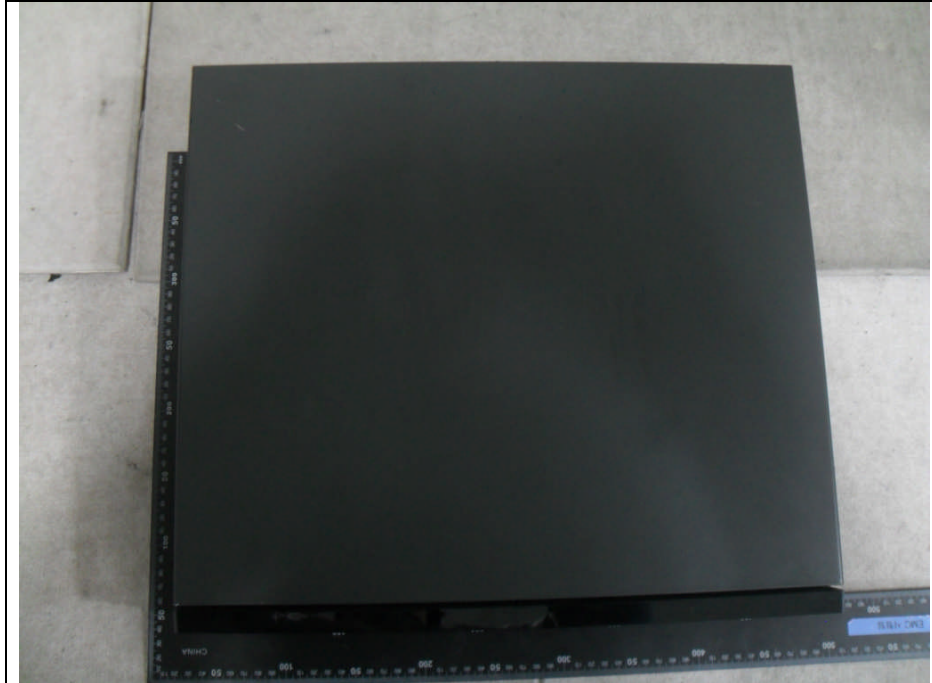
Left View



Right View



Top View



Bottom View



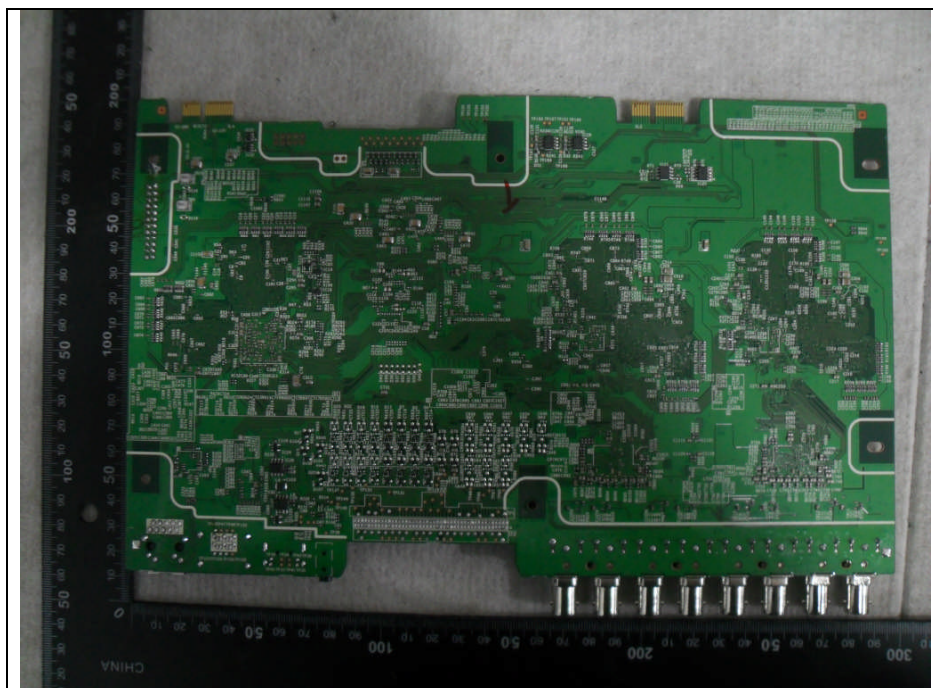
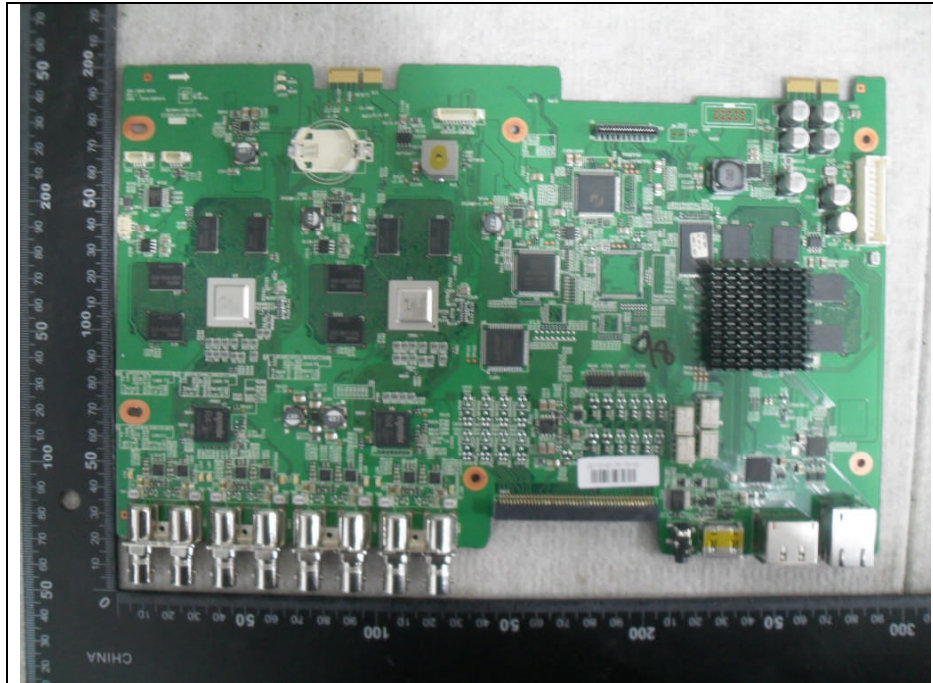
Port



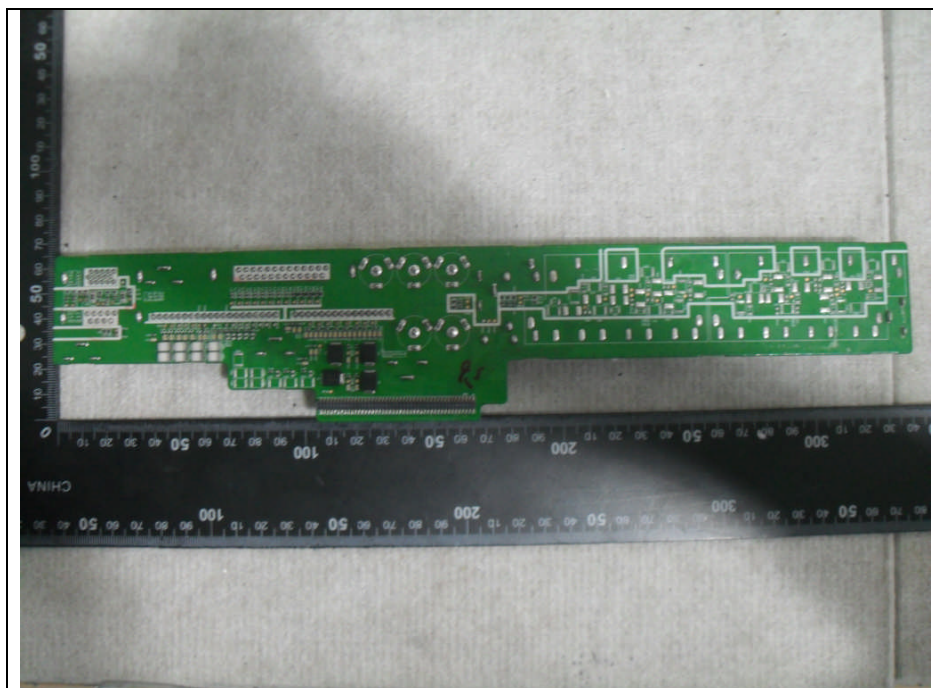
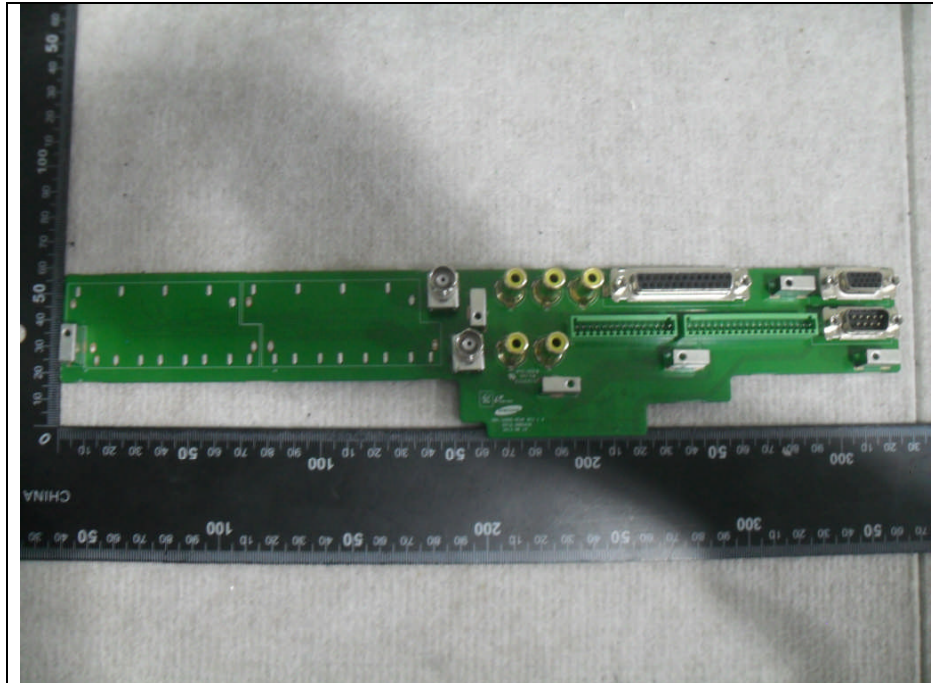
Inside



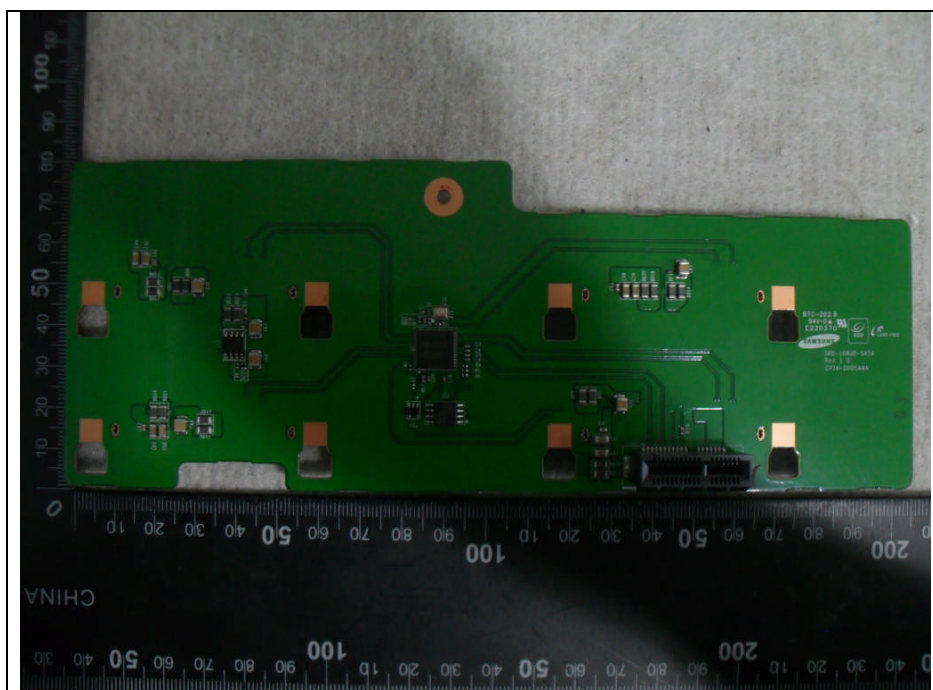
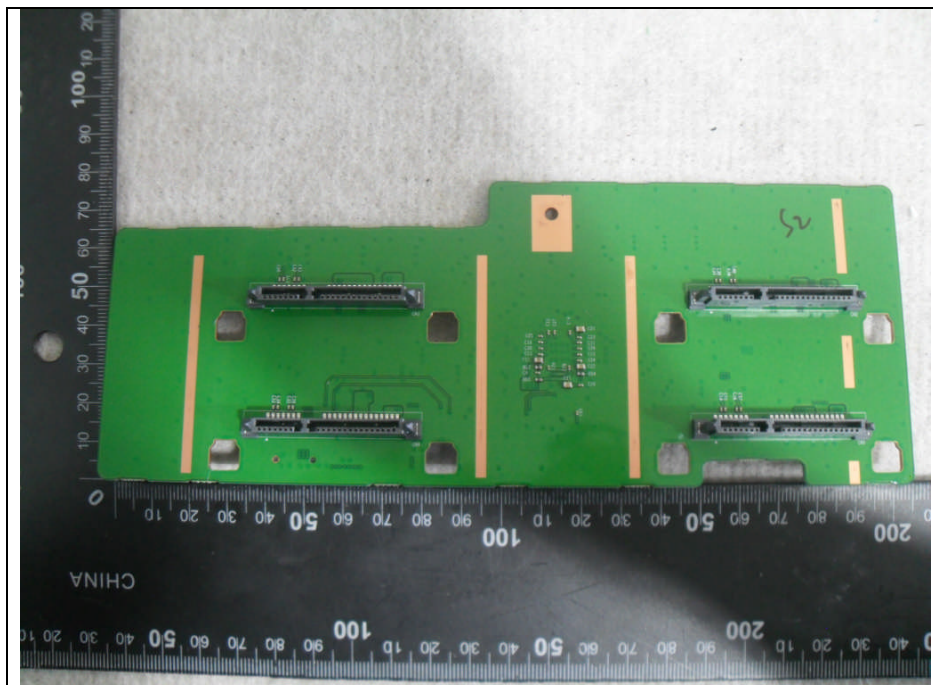
Main Board



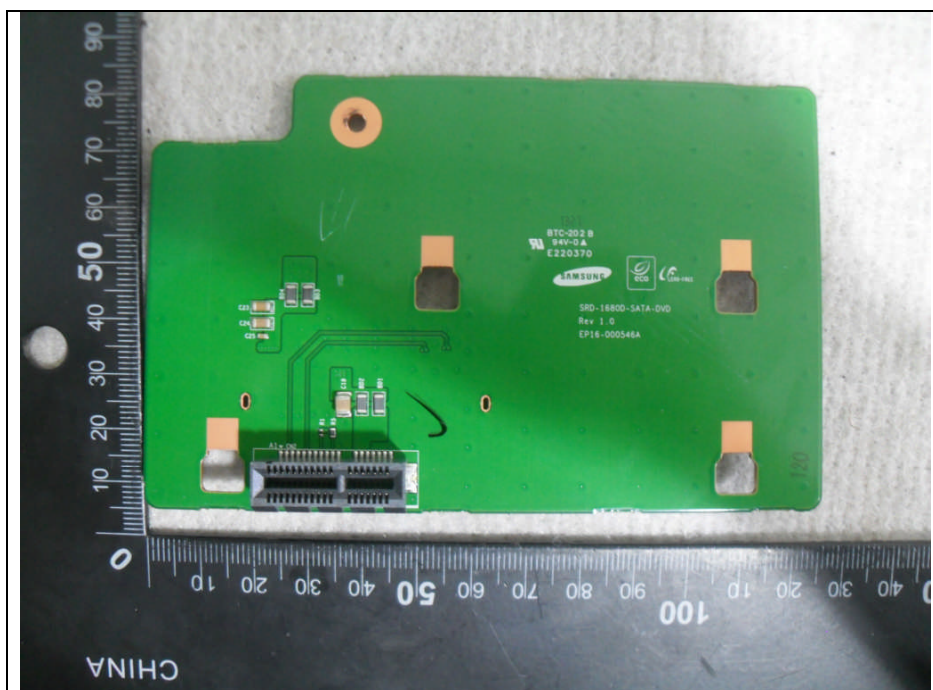
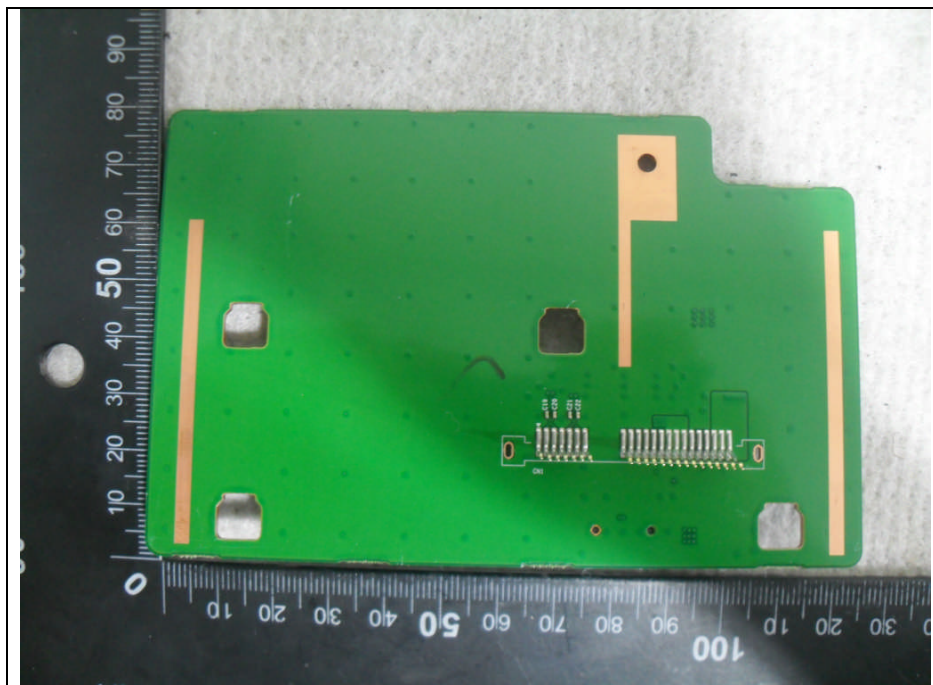
Port Board



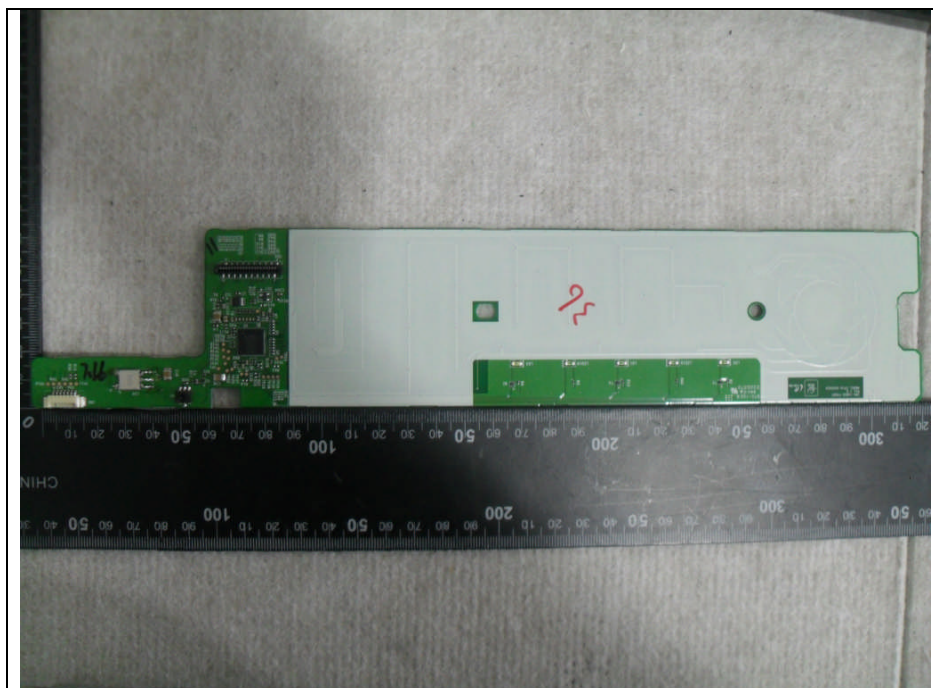
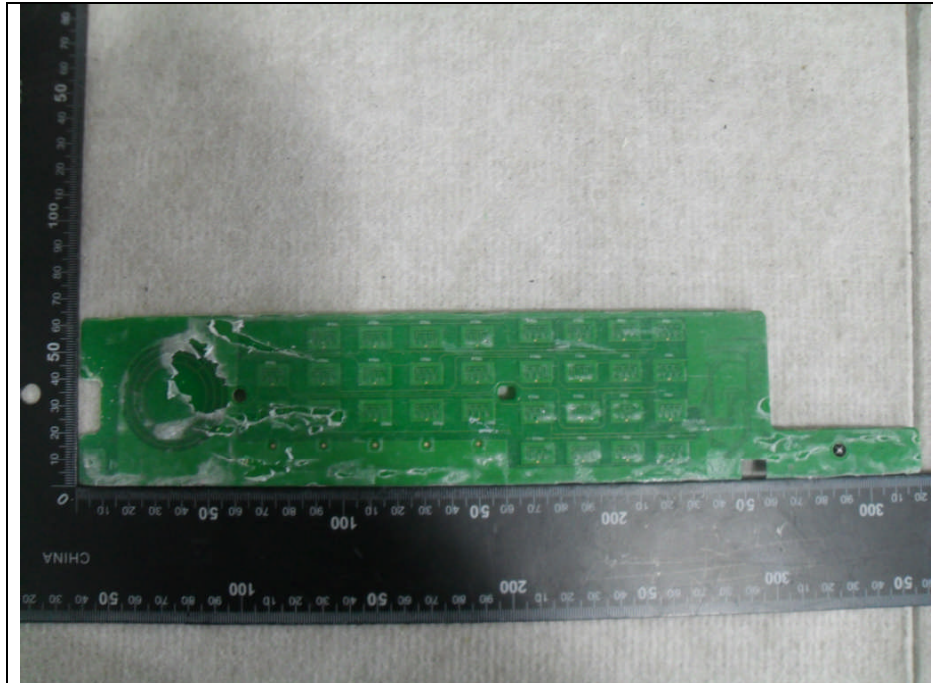
SUB Board 1



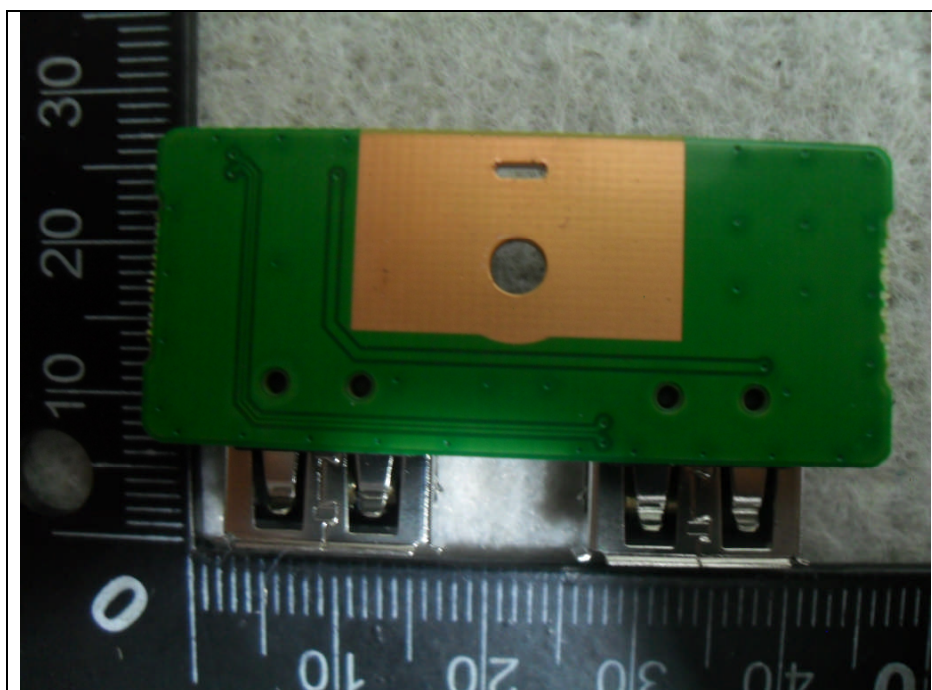
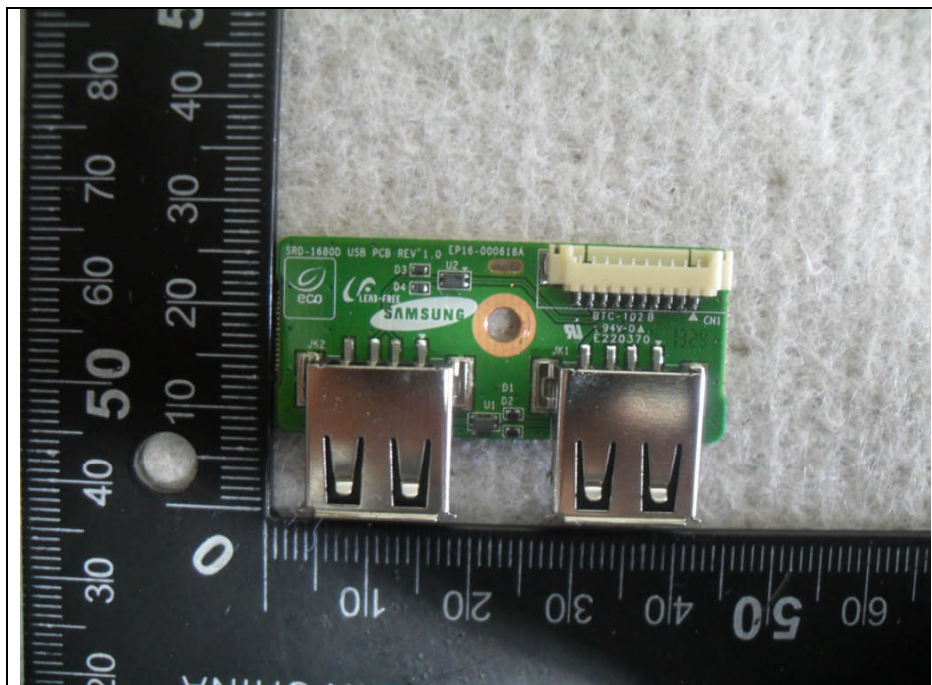
SUB Board 2



Touch Pad Board



USB Board



HDD (500GB)





ODD





Power

