


**SK TECH CO., LTD.**

Page 1 of 21

## Certificate of Compliance

<b>Test Report No.:</b>	SKTFCE-050629-058		
<b>NVLAP CODE :</b>	200220-0		
<b>Applicant:</b>	iCable System Co., Ltd.		
<b>Applicant Address:</b>	29F, MMAA B/D 467-12, Dogok-Dong, Gangnam-Gu, Seoul, Korea, 135-270		
<b>Manufacturer :</b>	iCable System Co., Ltd.		
<b>Manufacturer Address:</b>	29F, MMAA B/D 467-12, Dogok-Dong, Gangnam-Gu, Seoul, Korea, 135-270.		
<b>Product:</b>	Multimedia Terminal Adaptor		
<b>FCC ID:</b>	R3DICS-G302	<b>Model No.:</b>	ICS-G302
<b>Receipt No.:</b>	SKTEU05-0339	<b>Date of receipt:</b>	May 26, 2005
<b>Date of Issue:</b>	June 29, 2005		
<b>Testing location:</b>	SK TECH CO., LTD. 820-2, Wolmoon-Ri, Wabu-Up, Namyangju-Si, Kyunggi-Do, Korea		
<b>Test Standards:</b>	ANSI C63.4 / 2003		
<b>Rule Parts:</b>	FCC part 15 Subpart B		
<b>Equipment Class :</b>	Class B Digital Device Peripheral		
<b>Test Result:</b>	The above mentioned product has been tested and passed.		

Prepared by: S.Y.Ye

Tested by: H.P.Kim/Engineer

Approved by: C.H.Jeong  
/Manager& Chief Engineer

Signature	Date	Signature	Date	Signature	Date
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Other Aspects :
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Abbreviations :	· OK, Pass = passed	· Fail = failed	· N/A = not applicable
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- This test report is not permitted to copy partly without our permission.
- This test result is dependent on only equipment to be used.
- This test result is based on a single evaluation of one sample of the above mentioned.
- This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S Government.
- We certify that this test report has been based on the measurement standards that is traceable to the national or International standards.

NVLAP Lab. Code: 200220-0



## » » Contents « «

Contents	2
List of Tables	2
List of Figures	2
1. General	3
2. Test Site	3
2.1 Location	3
2.2 List of Test and Measurement Instruments	4
2.3 Test Date	4
2.4 Test Environment	4
3. Description of the tested samples	5
3.1 Rating and Physical Characteristics	5
3.2 Submitted Documents	5
4. Measurement Conditions	6
4.1 Modes of Operation	6
4.2 List of Peripherals	6
4.3 Type of Used cables	7
4.4 Test Setup	7
4.5 Uncertainty	8
5. EMISSION Test	11
5.1 Conducted Emissions	11
5.2 Radiated Emissions	20

## » List of Tables

Table 1	List of test and measurement Equipment	4
Table 2	Test Data, Radiated Emissions	21

## » List of Figures

Figure 1	Spectral Diagram, LINE-PE	12
Figure 2	Test Data, LINE-PE	13
Figure 3	Spectral Neutral -PE	14
Figure 4	Test Data, Neutral-PE	15
Figure 5	Spectral Diagram, LINE-PE(AVERAGE)	16
Figure 6	Test Data, LINE-PE(AVERAGE)	17
Figure 7	Spectral Neutral -PE(AVERAGE)	18
Figure 8	Test Data, Neutral-PE(AVERAGE)	19



## 1. General

This equipment has been shown to be capable of compliance with the applicable technical standards and was tested in accordance with the measurement procedures as indicated in this report.

We attest to the accuracy of data. All measurements reported herein were performed by SK Tech Co., Ltd. and were made under Chief Engineer's supervision.

We assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

## 2. Test Site

SK TECH Co., Ltd.

### 2.1 Location

820-2, Wolmoon Ri, Wabu-Up, Namyangju-Si, Kyunggi-Do, Korea

The test site is in compliance with ISO/IEC 17025 for general requirements for the competence of testing and calibration laboratories.

This laboratory is accredited by NVLAP for NVLAP Lab. Code : 200220-0 and DATech for DAR-Registration No.:DAT-P-076/97-01



## 2.2 List of Test and Measurement Instruments

Table 1 : List of Test and Measurement Equipment

- Conducted Disturbance

Kind of Equipment	Type	S/N	Calibrated until
EMI Receiver	ESHS10	862970/019	10.2005
Artificial Mains Network	ESH2-Z5	834549/011	08.2005
EMI Receiver	ESHS10	835871/002	11.2005
Artificial Mains Network	ESH3-Z5	836679/018	08.2005

- Radiated Disturbance

Kind of Equipment	Type	S/N	Calibrated until
EMI Receiver	ESVS 10	825120/013	10.2005
EMI Receiver	ESVS 10	834468/008	11.2005
Spectrum Analyzer	R3361A	11730187	10.2005
Amplifier	8447F	3113A05153	08.2005
Log Periodic Antenna	UHALP9107	1819	10.2005
Biconical Antenna	BBA9106	91031626	10.2005
Open Site Cable	N/A	N/A	N/A
Antenna Turntable Driver	5907	N/A	N/A
Antenna Turntable controller	5906	N/A	N/A
Amp & Receiver connection cable	N/A	N/A	N/A
Amp & Spectrum connection cable	N/A	N/A	N/A
50Ω Switcher	MP59B	6100214538	N/A

## 2.3 Test Date

Date of Application : May 26, 2005

Date of Test : June 23, 2005 ~ June 25, 2005

## 2.4 Test Environment

See each test item's description.



### **3. Description of the tested samples**

The iCable System S-MTA is a Terminal Adaptor that interfaces regular analog phones with IP networks. The MTA(ICS-G302) is installed at the subscriber's premises and supports up to two VoIP with its own independent phone number.

#### **3.1 Rating and Physical Characteristics**

ITEM	SPEC
Power Adapter	Input : AC 100V~240V, 50Hz/.60Hz
	Output : DC+5V/2A
Consumptions	Max 11W
Size	130mm(D)x140mm(W)x30mm(H)
Weight	314g
Temperature	0~40 °C
Humidity	10~90%

#### **3.2 Submitted Documents**

N/A



## 4. Measurement Conditions

Operating voltage of the EUT is 120V, 60Hz

### 4.1 Modes of Operation

The EUT is connected to Note PC by LAN interface cable.

The Note PC sends the ping signal via the EUT.

### 4.2 List of Peripherals

Equipment	Manufacturer	Model Name	Serial No.
Printer(Parallel)	EPSON PRECISION (PHILIPPINES),INC.	EPSON STYLUS PHOTO 830	ELTK014637
Adaptor (for EUT)	DVE	DSA-10P-05Fus 05010	N/A
Note PC	LG IBM PC	2681	FX-P2816
Adaptor (for Note PC)	ASTEC ELECTRONICS CO.,LTD	08K8292	11S08K8202Z1Z6L R38F053
Telephone	LG	GS-460	60106381

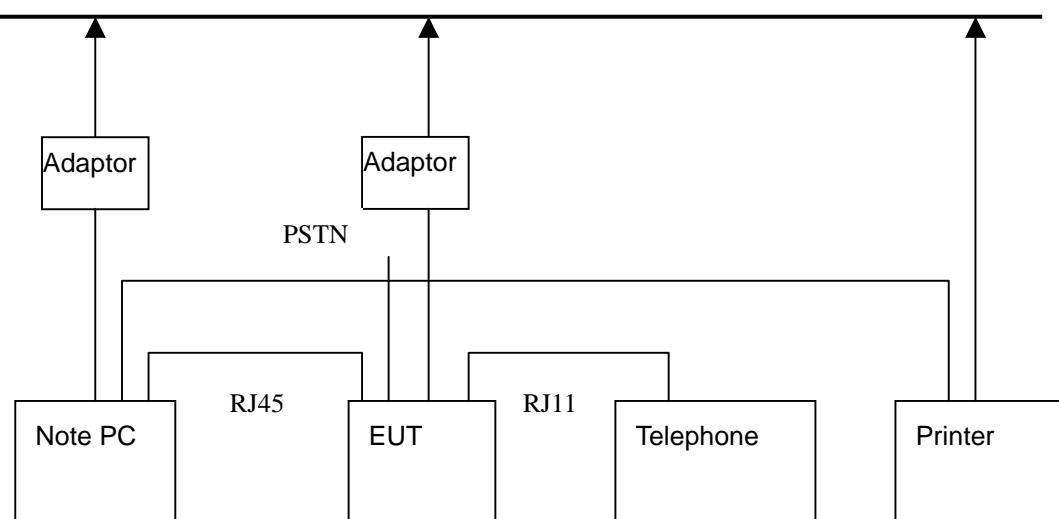


## 4.3 Type of Used Cables

Equipment	Manufacturer	M/N	S/N	Cables &connectors
Note PC	LG IBM PC	2681	FX-P2816	1.5m Shielded power cable
Multimedia Terminal Adaptor	iCable system Co., Ltd.	ICS-G302	N/A	2.0m Unshielded RJ45 cable 1.5m Unshielded power cable
Printer (Parallel)	EPSON PRECISION (PHILIPPINES),INC.	EPSON STYLUS PHOTO 830	ELTK014637	1.5m Unshielded power cable 2.0m Shielded signal cable
Telephone	LG	GS-460	60106381	2.0m Unshielded RJ11 cable
Adaptor (for Note PC)	ASTEC ELECTRONICS CO.,LTD	08K8292	11S08K8202 Z1Z6LR38F0 53	1.5m Unshielded power cable
Adaptor (for EUT)	DVE	DSA-10P-05Fus 05010	N/A	1.5m Unshielded power cable

## 4.4 Test Setup

The test setup photographs showed the external supply connections and interfaces.



[ System Block Diagram of Test Configuration]



## 4.5 Uncertainty

### 1) Radiated disturbance

◎ Horizontally polarized radiated disturbances from 30MHz to 1000MHz at a distance of 10m

Input quantity	Uncertainty of Xi		U(Xi) dB	Ci	Ci <sub>u</sub> (xi)	CISPR 16-4
	dB	Probability distribution function				
1) Receiver reading	±0.1	K=1	0.1	1	0.1	0.10
2) Attenuation: antenna-receiver	±0.18	K=2	0.09	1	0.09	0.05
3) Antenna factor	±1.5	K=2	0.75	1	0.75	1.00
RECEIVER CORRECTIONS:						
4) Sine wave voltage	±0.56	K=2	0.28	1	0.50	0.50
5) Pulse amplitude response	±1.5	Rectangular (1/3)	0.87	1	0.87	0.87
6) Pulse repetition rate response	±1.5	Rectangular (1/3)	0.87	1	0.87	0.87
7) Noise floor proximity	±0.5	K=2	0.25	1	0.25	0.25
8) AF frequency interpolation	±0.3	Rectangular (1/3)	0.17	1	0.17	0.17
9) Balance	±0.3	Rectangular (1/3)	0.17	1	0.17	0.53
10) AF height deviations	±0.5	Rectangular (1/3)	0.29	1	0.29	0.29
11) Phase center location	±0.3	Rectangular (1/3)	0.17	1	0.17	0.17
12) Directive difference	+1.0	Rectangular (1/3)	0.29	1	0.29	0.29
13) Cross polarization	±0.9	Rectangular (1/3)	0.52	1	0.52	0.52
14) Site corrections	±2.6	Rectangular (1/3)	1.5	1	1.5	1.63
15) Mismatch (ant-receiver)	±1.06	U-shaped (1/2)	0.75	1	0.75	0.67

### Combined Uncertainty

$$U_c(x_i) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2 + (9)^2 + (10)^2 + (11)^2 + (12)^2 + (13)^2 + (14)^2 + (15)^2} = 2.37$$

### Expanded Uncertainty

$$U = k * U_c(x_i) = 2 * 2.37 = 4.74 \text{dB} \quad (\text{The coverage factor } k = 2 \text{ yields approximately a 95% level of confidence})$$


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Page 9 of 21

**◎ Vertically polarized radiated disturbances from 30MHz to 1000 MHz at a distance of 10 m**

Input quantity	Uncertainty of Xi		U(Xi) dB	Ci	Ciu(xi)	CISPR 16-4
	dB	Probability distribution function				
1) Receiver reading	±0.1	K =1	0.1	1	<b>0.1</b>	0.10
2) Attenuation: antenna-receiver	±0.18	K=2	0.09	1	<b>0.09</b>	0.05
3) Antenna factor	±1.5	K=2	0.75	1	<b>0.75</b>	1.00
<b>RECEIVER CORRECTIONS:</b>						
4) Sine wave voltage	±0.56	K=2	0.28	1	<b>0.50</b>	0.50
5) Pulse amplitude response	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
6) Pulse repetition rate response	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
7) Noise floor proximity	±0.5	K=2	0.25	1	<b>0.25</b>	0.25
8) AF frequency interpolation	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.17
9) Balance	±0.9	Rectangular (√3)	0.52	1	<b>0.52</b>	0.52
10) AF height deviations	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.17
11) phase center location	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.17
12) directive difference	+1.0	Rectangular (√3)	0.29	1	<b>0.29</b>	0.29
13) cross polarization	±0.9	Rectangular (√3)	0.52	1	<b>0.52</b>	0.52
14) site corrections	±2.6	Rectangular (√3)	1.5	1	<b>1.5</b>	1.63
15) Mismatch (ant-receiver)	±1.06	U-shaped (√2)	0.75	1	<b>0.75</b>	0.67

**Combined Uncertainty**

$$Uc(xi) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2 + (9)^2 + (10)^2 + (11)^2 + (12)^2 + (13)^2 + (14)^2 + (15)^2} = 2.43$$

**Expanded Uncertainty**

$$U = k * Uc(xi) = 2 * 2.43 = 4.86 \text{ dB}$$

(The coverage factor k =2 yields approximately a 95% level of confidence)



## 2) Conducted disturbance

### ◎ Conducted disturbance from 150 KHz to 30 MHz using a 50 Ω/ 50 uH AMN

input quantity	Uncertainty of Xi		U(Xi) dB	Ci	Ciu(xi)	CISPR 16-4
	dB	Probability distribution function				
1) Receiver Readeing	±0.1	K=1	0.1	1	<b>0.1</b>	0.10
2) Attenuation:AMN-receiver	±0.36	Triangular ( $\sqrt{6}$ )	0.15	1	<b>0.15</b>	0.05
RECEIVER CORRECTIONS:						
3) Sine wave voltage	±0.5	K=2	0.25	1	<b>0.25</b>	0.50
4) Pulse amplitude response	±1.5	Rectangular ( $\sqrt{3}$ )	0.87	1	<b>0.87</b>	0.87
5) Pulse repetition rate response	±1.5	Rectangular ( $\sqrt{3}$ )	0.87	1	<b>0.87</b>	0.87
6) AMN voltage division factor	±0.07	K=2	0.04	1	<b>0.04</b>	0.1
7) Mismatch : AMN-receiver	±0.55	U-shaped ( $\sqrt{2}$ )	0.39	1	<b>0.39</b>	0.53
8) AMN impedance	±1.52	Triangular ( $\sqrt{6}$ )	0.62	1	<b>0.62</b>	1.08

- 1)~8) For numbered comments, refer to following articles

### Combined Uncertainty

$$U_c(x_i) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2} = 1.47$$

### Expanded uncertainty

$$U = k * U_c(x_i) = 2 * 1.47 = 2.94 \text{ dB}$$

The coverage factor  $k = 2$  yields approximately a 95% level of confidence

### ◎ Refer

- 1) receiver's resolution capacity
- 2) refer to the sub clause 11. of a calibration report
- 3) quoted from CISPR 16-4
- 4) refer to a calibration report
- 5) refer to CISPR 16-4 article 5. 7)
- 6) refer to a calibration report and a measured AMN impedance data



## 5. EMISSION Test

### 5.1 Conducted Emissions

**Result:****PASS**

The line-conducted facility is located inside a 2.0M x 3.6M x 7.2M shielded enclosure.

The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 604-05.

A 1 m x 1.5 m wooden table 80 cm high is placed 40 cm. away from the vertical wall and 1.5 m away from the side wall of the shielded room. ROHDE & SCHWARZ Model ESH3-Z5 (10 kHz-30 MHz) 50 ohm/50 uH Line-Impedance Stabilization Networks(LISNs) are bonded to the shielded room.

The EUT is powered from the ROHDE & SCHWARZ LISN and the support equipment is powered from the ROHDE & SCHWARZ LISN. Power to the LISNs are filtered by a high-current high-insertion loss Lindgren enclosures power line filters (100dB 14 kHz-10 GHz).

The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure.

All electrical cables are shielded by braided tinned copper zipper tubing with inner diameter of 1/2".

If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the ROHDE & SCHWARZ LISN.

All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT.

The spectrum was scanned from 150 kHz to 30 MHz with 100msec. sweep time.

The frequency producing the maximum level was reexamined using EMI/field Intensity Meter (ESHS 10) and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode.

The bandwidth of the receiver was set to 10 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission.

Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; if applicable; whichever determined the worst-case emission.

Photographs of the worst-case emission can be seen in photograph of conducted test.

Each EME reported was calibrated using self-calibrating mode.

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Page 12 of 21

**Figure 1 : Spectral Diagram, LINE - PE**

23 Jun 2005 14:02

**CONDUCTED DISTURBANCE**

EUT: ICS-G302

Manuf:

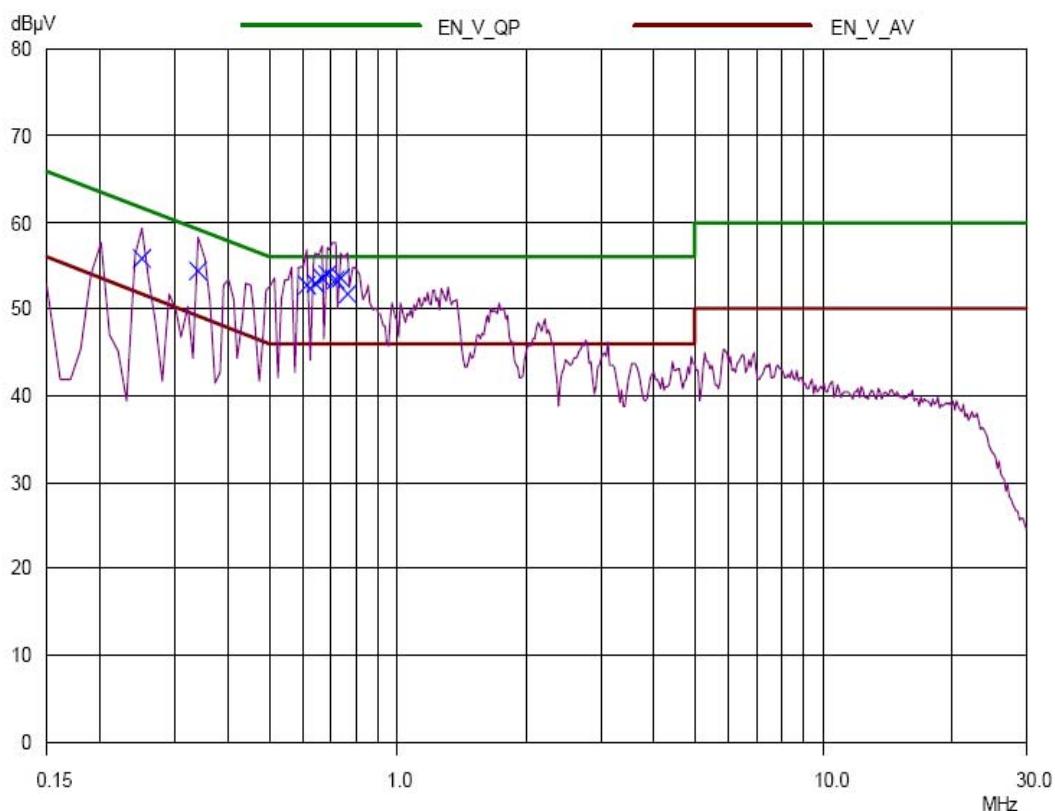
Op Cond:

Operator:

Test Spec:

Comment: LINE-PE

Scan Settings	(1 Range)				Receiver Settings			
	Frequencies							
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB
Final Measurement:	Detector: X QP Meas Time: 1sec Peaks: 8 Acc Margin: 35 dB							





## Figure 2: Test Data, LINE – PE

23 Jun 2005 14:02

## CONDUCTED DISTURBANCE

EUT: ICS-G302

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: LINE-PE

Scan Settings		(1 Range)			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB	

Final Measurement:      Detector: X QP  
 Meas Time: 1sec  
 Peaks: 8  
 Acc Margin: 35 dB

## Final Measurement Results

Frequency MHz	QP Level dB $\mu$ V	QP Limit dB $\mu$ V	QP Delta dB
0.25	55.77	61.76	5.99
0.34	54.39	59.20	4.81
0.61	52.74	56.00	3.26
0.64	52.98	56.00	3.02
0.66	53.66	56.00	2.34
0.68	54.02	56.00	1.98
0.71	53.42	56.00	2.58
0.73	53.52	56.00	2.48
0.76	51.82	56.00	4.18

\* limit exceeded



Figure 3 : Spectral Diagram, NEUTRAL – PE

23 Jun 2005 14:14

## CONDUCTED DISTURBANCE

EUT: ICS-G302

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: NEUTRAL-PE

Result File: G302LA.dat : New Measurement

Scan Settings	(1 Range)				Receiver Settings				
	Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
	150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement:

Detector:	X QP
Meas Time:	1sec
Peaks:	8
Acc Margin:	35 dB

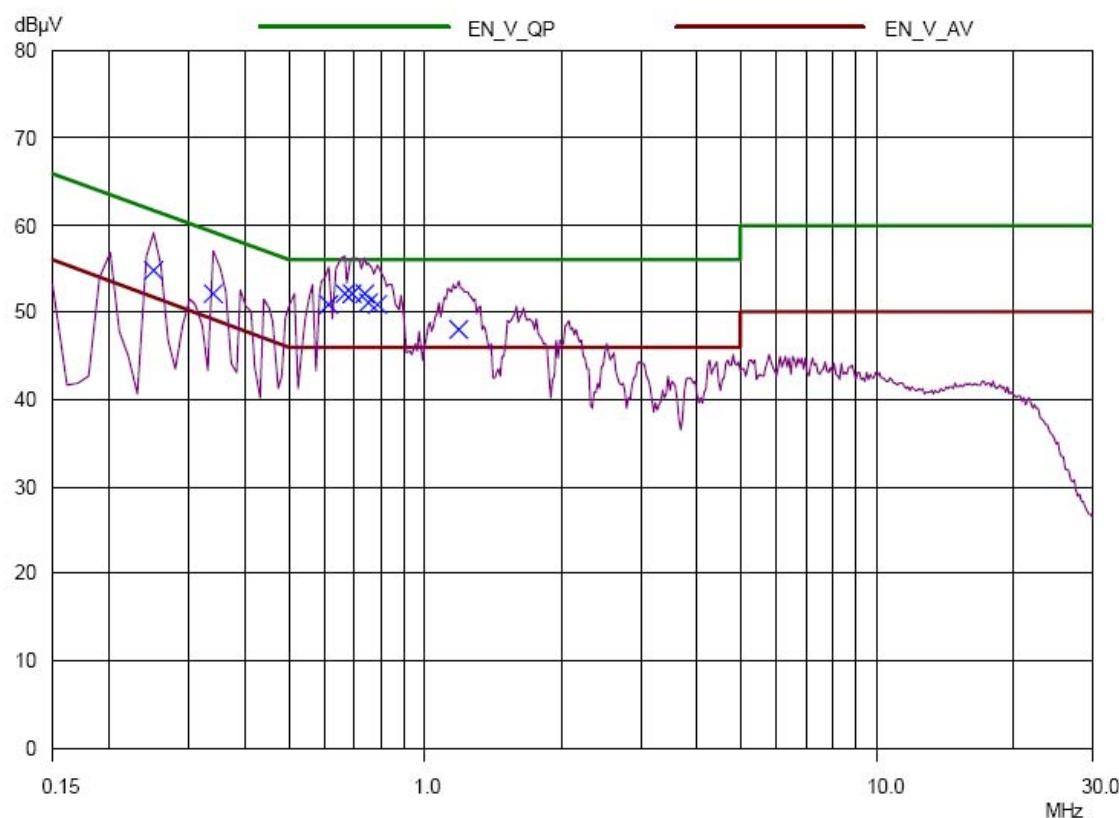




Figure 4: Test Data, NEUTRAL – PE

23 Jun 2005 14:14

## CONDUCTED DISTURBANCE

EUT: ICS-G302

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: NEUTRAL-PE

Result File: G302LA.dat : New Measurement

Scan Settings	(1 Range)			Receiver Settings					
	Frequencies			IF BW	Detector	M-Time	Atten	Preamp	OpRge
Start	Stop	Step		10kHz	PK	100msec	Auto	OFF	60dB
150kHz	30MHz								

Final Measurement:      Detector: X QP  
 Meas Time: 1sec  
 Peaks: 8  
 Acc Margin: 35 dB

## Final Measurement Results

Frequency MHz	QP Level dB $\mu$ V	QP Limit dB $\mu$ V	QP Delta dB
0.25	54.89	61.76	6.87
0.34	52.06	59.20	7.14
0.61	50.96	56.00	5.04
0.66	52.12	56.00	3.88
0.69	52.06	56.00	3.94
0.73	52.08	56.00	3.92
0.75	51.12	56.00	4.88
0.78	51.00	56.00	5.00
1.18	48.07	56.00	7.93

\* limit exceeded

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Page 16 of 21

**Figure 5 : Spectral Diagram, LINE – PE(AVERAGE)**

23 Jun 2005 14:05

**CONDUCTED DISTURBANCE**

EUT: ICS-G302

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: LINE-PE

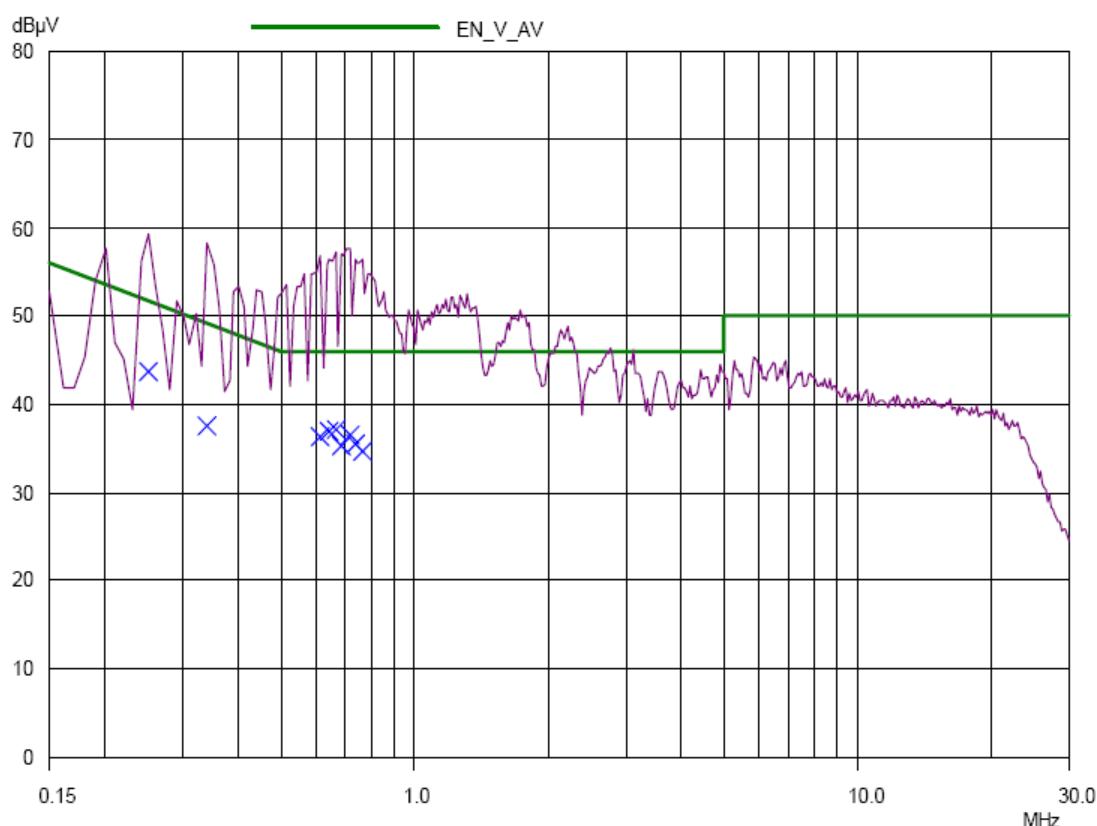
AV

Result File: G302LA.dat : New Measurement

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement:	Detector:	X AV
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	35 dB



**Figure 6: Test Data, LINE – PE(AVERAGE)**

23 Jun 2005 14:05

**CONDUCTED DISTURBANCE**

EUT: ICS-G302

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: LINE-PE

AV

Result File: G302LA.dat : New Measurement

## Scan Settings (1 Range)

Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement:      Detector: X AV  
 Meas Time: 1sec  
 Peaks: 8  
 Acc Margin: 35 dB

## Final Measurement Results

Frequency MHz	AV Level dB $\mu$ V	AV Limit dB $\mu$ V	AV Delta dB
0.25	43.66	51.76	8.10
0.34	37.48	49.20	11.72
0.61	36.25	46.00	9.75
0.64	36.96	46.00	9.04
0.66	37.13	46.00	8.87
0.68	35.21	46.00	10.79
0.71	36.58	46.00	9.42
0.73	35.52	46.00	10.48
0.76	34.67	46.00	11.33

\* limit exceeded

**Figure 7 : Spectral Diagram, NEUTRAL – PE(AVERAGE)**

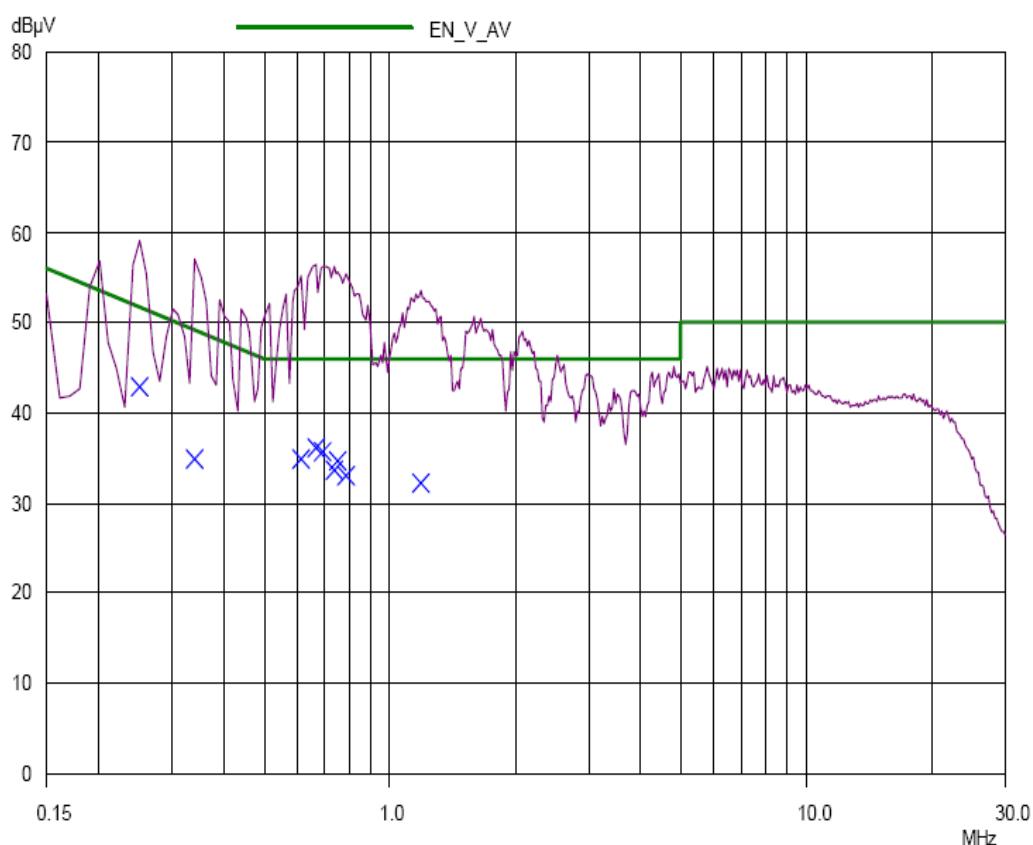
23 Jun 2005 14:15

**CONDUCTED DISTURBANCE**

EUT: ICS-G302  
Manuf:  
Op Cond:  
Operator:  
Test Spec:  
Comment: NEUTRAL-PE  
AV  
Result File: g302NA.dat : New Measurement

Scan Settings (1 Range)  
Frequencies      Receiver Settings  
Start Stop Step IF BW Detector M-Time Atten Preamp OpRge  
150kHz 30MHz 10kHz 10kHz PK 100msec Auto OFF 60dB

Final Measurement: Detector: X AV  
Meas Time: 1sec  
Peaks: 8  
Acc Margin: 35 dB



**Figure 8: Test Data, NEUTRAL – PE(AVERAGE)**

23 Jun 2005 14:15

**CONDUCTED DISTURBANCE**

EUT: ICS-G302  
 Manuf:  
 Op Cond:  
 Operator:  
 Test Spec:  
 Comment: NEUTRAL-PE  
 AV  
 Result File: g302NA.dat : New Measurement

Scan Settings	(1 Range)				Receiver Settings				
	Frequencies		Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
Start 150kHz	Stop 30MHz		10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement: Detector: X AV  
 Meas Time: 1sec  
 Peaks: 8  
 Acc Margin: 35 dB

## Final Measurement Results

Frequency MHz	AV Level dB $\mu$ V	AV Limit dB $\mu$ V	AV Delta dB
0.25	42.93	51.76	8.83
0.34	34.94	49.20	14.26
0.61	34.80	46.00	11.20
0.66	36.19	46.00	9.81
0.69	35.71	46.00	10.29
0.73	33.72	46.00	12.28
0.75	34.67	46.00	11.33
0.78	33.08	46.00	12.92
1.18	32.13	46.00	13.87

\* limit exceeded



## 5.2 Radiated Emissions

**Result :****PASS**

Preliminary measurements were made indoors at 3 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME.

Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found.

The spectrum was scanned from 30 to 300 MHz using biconical antenna and from 300 to 1000 MHz using log-periodic antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3-meter test range using SCHWARZBECK dipole antennas. The test equipment was placed on a wooden table situated on a 4x4 meter area adjacent to the measurement area. Turntable was to protect from weather in the dome that made with FRP.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter(ESVS 10) and Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100 kHz or 1 MHz depending on the frequency or type of signal.

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table.

The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed, and/or support equipment, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission.

Photographs of the worst-case emission can be seen in photograph of radiated emission test.

Each EME reported was calibrated using self-calibrating mode.

**Table 2 : Test Data, Radiated Emissions**

Frequency [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
200.00	H	1.0	11.3	16.2	2.3	18.5	29.8	43.5	13.7
300.00	H	1.0	21.3	16.4	3.1	19.5	40.8	46.0	5.2
400.00	H	1.0	16.8	18.3	3.5	21.8	38.6	46.0	7.4
600.00	H	1.0	13.6	21.0	4.6	25.6	39.2	46.0	6.8

**NOTES:**

1. All modes of operation were investigated and the worst-case emission are reported.
2. All other emission are non-significant.
3. All readings are calibrated by self-mode in receiver.
4. Measurements using CISPR quasi-peak mode.
5. H = Horizontal, V = Vertical Polarization
6. DATA = Real Reading + T - FACTOR(=Antenna+Cable)
7. Margin = Limits - DATA