FCC ID:VHGIS4010E SKTFCE-070716-099



### SK TECH CO., LTD.

Page 1 of 17

**FCC-Certificate of Compliance** 

SKTFCE-070716-099 **Test Report No.: NVLAP CODE:** 200220-0 Applicant: Sysmate, Inc **Applicant Address:** 6, Dunjimi 2 street, Dunsan-Dong, Seo-Gu, Daejeon, Korea Manufacturer: Sysmate, Inc Manufacturer 6, Dunjimi 2 street, Dunsan-Dong, Seo-Gu, Daejeon, Korea Address: **Product:** 10Gbps LAN/POS x 1 PCAP PCI-E CARD FCC ID: VHGIS4010E Model No.: IS4010E **Buver Model/** IS4110E Multi Model No.: SKTEU07-0609 Date of receipt: Jun.21, 2007 Receipt No.: Date of Issue: Jul. 16, 2007 SK TECH CO., LTD. **Testing location:** 820-2, Wolmoon-Ri, Wabu-Up, Namyangju-Si, Kyunggi-Do, Korea Test Standards: ANSI C63.4 / 2003 **Rule Parts:** FCC part 15 Subpart B **Equipment Class:** Class B Digital Device Peripheral **Test Result:** The above mentioned product has been tested and passed.

Prepared by: S.Y.Ye

Tested by:K.H.Choi/Engineer

Approved by: D.H.Kang /Manager& Chief Engineer

Signature Date

Date

Signature Other Aspects: Date

Signature

Abbreviations:

· OK, Pass = passed · Fail = failed · N/A = not applicable

- •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.
  - •This test report is the accredited testing items by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

NVLAP Lab. Code: 200220-0



# SK TECH CO., LTD.

Page 2 of 17

List of 1. General 2. Test 2.1 2.2 2.3 2.4 3. Desc 3.1 3.2 4. Meas 4.1 4.2 4.3 4.4 4.5	of Tables of Figures eral Site Location List of Test and Measurement Instruments Test Date Test Environment cription of the tested samples Rating and Physical Characteristics Submitted Documents surement Conditions Modes of Operation	2 2 3 3 3 4 4 4 5 5 7 8
List of 1. General 2.1 2.2 2.3 2.4 3. Description 3.1 3.2 4.1 4.2 4.3 4.4 4.5 5. EMIS	of Figures eral Site Location List of Test and Measurement Instruments Test Date Test Environment cription of the tested samples Rating and Physical Characteristics Submitted Documents surement Conditions Modes of Operation	2 3 3 4 4 4 5 5 7 8
<ol> <li>Gene</li> <li>Test</li> <li>2.1</li> <li>2.2</li> <li>2.3</li> <li>2.4</li> <li>Desc</li> <li>3.1</li> <li>3.2</li> <li>Meas</li> <li>4.1</li> <li>4.2</li> <li>4.3</li> <li>4.4</li> <li>4.5</li> <li>EMIS</li> </ol>	Site  Location  List of Test and Measurement Instruments  Test Date  Test Environment  cription of the tested samples  Rating and Physical Characteristics  Submitted Documents  surement Conditions  Modes of Operation	3 3 4 4 4 5 5 7 8
<ol> <li>Test</li> <li>2.1</li> <li>2.2</li> <li>3.3</li> <li>2.4</li> <li>Desc</li> <li>3.1</li> <li>3.2</li> <li>Meas</li> <li>4.1</li> <li>4.2</li> <li>4.3</li> <li>4.4</li> <li>4.5</li> <li>EMIS</li> </ol>	Location List of Test and Measurement Instruments Test Date Test Environment cription of the tested samples Rating and Physical Characteristics Submitted Documents surement Conditions Modes of Operation	3 4 4 4 5 5 7 8
2.1 2.2 2.3 2.4 3. Desc 3.1 3.2 4. Meas 4.1 4.2 4.3 4.4 4.5 5. EMIS	Location List of Test and Measurement Instruments Test Date Test Environment cription of the tested samples Rating and Physical Characteristics Submitted Documents surement Conditions Modes of Operation	3 4 4 4 5 5 7 8
2.2 2.3 2.4 3. Desc 3.1 3.2 4. Meas 4.1 4.2 4.3 4.4 4.5 5. EMIS	List of Test and Measurement Instruments Test Date Test Environment cription of the tested samples Rating and Physical Characteristics Submitted Documents surement Conditions Modes of Operation	4 4 4 5 5 7 8
2.3 2.4 3. Desc 3.1 3.2 4. Meas 4.1 4.2 4.3 4.4 4.5 5. EMIS	Test Date Test Environment cription of the tested samples Rating and Physical Characteristics Submitted Documents surement Conditions Modes of Operation	4 4 5 5 7 8
2.4 3. Desc 3.1 3.2 4. Meas 4.1 4.2 4.3 4.4 4.5 5. EMIS	Test Environment cription of the tested samples Rating and Physical Characteristics Submitted Documents surement Conditions Modes of Operation	4 5 5 7 8
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3.1 3.2 4. Meas 4.1 4.2 4.3 4.4 4.5 5. EMIS	Rating and Physical Characteristics Submitted Documents surement Conditions Modes of Operation	5 7 8
3.2 4. Meas 4.1 4.2 4.3 4.4 4.5 5. EMIS	Submitted Documents surement Conditions Modes of Operation	7 8
4. Meas 4.1 4.2 4.3 4.4 4.5 5. EMIS	surement Conditions  Modes of Operation	8
4.1 4.2 4.3 4.4 4.5 5. EMIS	Modes of Operation	
4.2 4.3 4.4 4.5 5. EMIS		8
4.3 4.4 4.5 5. EMIS		
4.4 4.5 5. EMIS	List of Peripherals	8
4.5 5. EMIS	Type of Used cables	9
5. EMIS	Test Setup	10
	Uncertainty TESTING NO. 191	11
5.1	SSION Test	12
	Conducted Emissions	12
5.2	Radiated Emissions	16
<b>»</b> List	of Tables	
Table 1	List of test and measurement Equipment	4
Table 2	Test Data, Conducted Disturbance	13
Table 3	Test Data, Radiated Emissions	17
List	of Figures	
Figure 1 Figure 2	Spectral Diagram, LINE-PE	1 <i>4</i> 15



## SK TECH CO., LTD.

Page 3 of 17

### 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 recognized as a Conformity Assessment Body(CAB) for CAB's,

Designation Number: **KR0007** by FCC, is accredited by NVLAP for NVLAP Lab. Code : : **200220-0** and DATech for DAR-Registration No.**DAT-P-076/97-01** and KOLAS for Accreditation No.:**KT191.** 



# SK TECH CO., LTD.

Page 4 of 17

# 2.2 List of Test and Measurement Instruments

### **Table 1: List of Test and Measurement Equipment**

### Conducted Disturbance

Kind of Equipment	Туре	S/N	Calibrated until	
EMI Receiver	ESHS10	862970/019	09.2007	
Artificial Mains Network	ESH2-Z5	834549/011	07.2007	

### Radiated Disturbance

Kind of Equipment	Type S/N		Calibrated until	
EMI Receiver	ESVS10	834468/008	09.2007	
Amplifier	8447F	3113A05153	07.2007	
Trilog-Broadband Antenna	VULB9168	9168-230	07.2007	
Antenna Turntable Driver	5907	91X <mark>5</mark> 18	N/A	
Antenna Turntable controller	5906	91X519	N/A	
Spectrum Analyzer	R3361A	11730187	09.2007	

# 2.3 Test Date

Date of Application : Jun. 21, 2007

Date of Test : Jul. 06, 2007 ~ Jul. 09, 2007

# 2.4 Test Environment

See each test item's description.



## SK TECH CO., LTD.

Page 5 of 17

# 3. Description of the tested samples

The EUT provides pocket transmission/ reception and monitoring for 0C-192 POS or 10 Gbps LAN Ethernet.

It can be installed in systems which supports the standard PCI-X 64-bit 100/133MHz interface.

## 3.1 Rating and Physical Characteristics

### <IS4010E>

Monitoring Interface Specifications			
Feature	Specification		
Interface	9.95 Gbps POS * 1 EA (XFP Optical Transceiver) Maximum link length of 10Km/ 40Km/80Km		
Media type	9.95 Mbps SMF 1310nm Duplex LC connector		
Receiver	-14 dBm to 0 dBm (10Km XFP Module)		
Sensitivity	-16 dBm to -1 dBm (40Km XFP Module) -24 dBm to -7 dBm (80Km XFP Module)		

#### **Monitoring Network Specifications**

Point-to-Point Protocol over SONET/SDH according to RFC 2615(1619)/1663
Supports packet based link layer protocols using byte synchronous HDLC framing
Perform self-synchronous POS data descrambling on the received STS-192c Payloads
FCS validation for CRC-32 polynomials

Permits FCS stripping on the POS-PHY output data stream

#### **Time Interface Specifications**

Interface	GPS Time Interface Module *1EA
Connector	RJ45 Connector

#### **PCI Bus Specifications**

Feature	Specification
PCI-Express	8x

#### **Hardware Packet Processor Specifications**

Full 10 Gbps line speed packet processing engine Timestamp with 100 nano second resolution (optional)

Packet snapping size: 60~1536 Packet sampling:count-based sampling

Packet reception statistics



## SK TECH CO., LTD.

Page 6 of 17

Physical Characteristics			
Dimension	Measurement		
Height	106.50mm		
Length 182.65mm			
Power Requirements			
Specification Measurement			
Operating Voltage	+3.3V, +12V		
Power consumption	Less than 22 Watts		
Environmental Specifications			
Condition Operating Specifications			
Temperature	0℃ to 55℃		
Relative humidity 5% to 85%			

### <IS4110E>

Monitoring Interface Specifications			
Feature	Specification		
Interface 10.7 Gbps LAN *1 EA Maximum link length of 10Km/40Km/80Km			
Media type	10.7 Gbps SMF XFP(10-Gigabit Small Form Factor Pluggable) 1310nm LC-Duplex		
Receiver -14 dBm to 0 dBm (10Km XFP Module)			
Sensitivity	-16 dBm to -1 dBm (40Km XFP Module) -24 dBm to -7 dBm (80Km XFP Module)		

### **Monitoring Network Specifications**

Provides an IEEE 802.3ae 10 Gigabit MAC for Ethernet frame handling Supports Ethernet 2.0, IEEE 802.3 LLC and IEEE 802.3 SNAP/LLC encoding formatis Including VLAN tagged frames
In the receive direction, supports 64B/66B decoding, frame delineation, fram intergrity (FCS and length)checks

### **Time Interface Specifications**

Feature	Specification
PCI-Express	8x



# SK TECH CO., LTD.

Page 7 of 17

PCI Bus Specifications				
Feature Specification				
PCI-X clock	100/133 MHz (max)			
Hardware Packet Processor Sp	pecifications			
Full 10 Gbps line speed packet processing engine Timestamp with 100 nano second resolution (optional) Packet snapping size: 60~1536 Packet sampling:count-based sampling Packet reception statistics				
Physical Characteristics				
Dimension	Measurement			
Height	106.50mm			
Length	182.65mm			
Power Requirements	ORATORY ACCREDITATION			
Specification	Measurement			
Operating Voltage	+3.3V, +12V			
Power consumption Less than 22 Watts				
Environmental Specifications				
Condition	Operating Specifications			
Temperature	0℃ to 55℃			

# 3.2 Submitted Documents

5% to 85%

N/A

Relative humidity



## SK TECH CO., LTD.

Page 8 of 17

## 4. Measurement Conditions

Operating voltage of the EUT is supplied from AC Line.

The rating is AC 120V/ 60Hz at input.

# 4.1 Modes of Operation

Fiber optic cable was connected between EUT and the outside server and Data was transferred between them.

The Data rate displayed on the server was observed.

# 4.2 List of Peripherals

Equipment	Manufacturer	Model Name	Serial No.
Keyboard(PS2)	YET FOUNDATE LTD.	SK-1688	C0509035687
Mouse (USB)	ZUZHOU LOGITECH ELECTRONICS CO., LTD.	M-BJ58	HCA54718471
LCD Monitor	TOP VICTORY ELECTRONICS(FUJIAN) CO., LTD.	ELM-728	2925BJA021104
Adaptor TPV Electronics Co., Ltd.		ADPC12416BB 12416BG5473859	
LCD Monitor	TOP VICTORY ELECTRONICS(FUJIAN) CO., LTD.	ELM-728	2925CJA021461
Adaptor	Adaptor TPV Electronics Co., Ltd.		12416BG54737993
Server (For EUT)	Server (For EUT) Super Micro		N/A
Server	Server Intel		N/A
Keyboard (For EUT)			0000106



# SK TECH CO., LTD.

Page 9 of 17

# 4.3 Type of Used Cables

#	START		END		Cable	
#	Name	I/O Port	Name	Name	Length	Shielded
1	Server (For EUT)	USB	Keyboard		1.8	Shielded
2		USB	USB		1.8	Shielded
3		RGB	LCD Monitor		1.5	Shielded
4		Fiber-optic cable	Server		1.0	Unshielded
5		Power	AC Line		1.5	Unshielded
6	Server	RGB	LCD Monitor		1.5	Shielded
7		PS/2	Keyboard		1.3	Unshielded
8		Power	AC Line	REDITAR	1.5	Unshielded
9	LCD Monitor	Power	AC Line	01	1.5	Unshielded



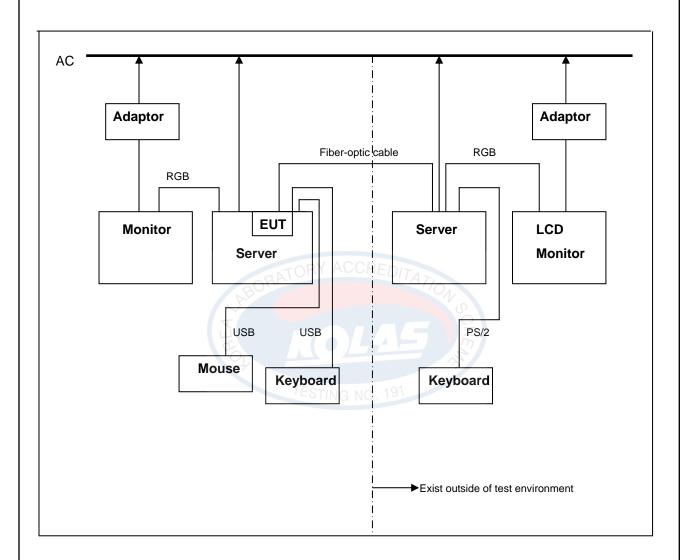


# SK TECH CO., LTD.

Page 10 of 17

# 4.4 Test Setup

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



[ System Block Diagram of Test Configuration ]



### SK TECH CO., LTD.

Page 11 of 17

# 4.5 Uncertainty

Radiated disturbances from 30 MHz to 1000 MHz at a distance of 3m and 10 m
 Expanded Uncertainty

$$U = k * Uc(xi) = 2 * 2.3 = 4.60dB$$

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

2) Conducted disturbance from 150 KHz to 30 MHz using a 50  $\Omega$ /50 uH AMN Expanded uncertainty

$$U = k * Uc(xi) = 2 * 1.96 = 3.92dB$$

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

\* When the measured emission is positioned within the range of the uncertainty of measurement from the emission limit, the uncertainty of measurement shall be concerned as follow.

Compliance or non-compliance with a disturbance limit shall be determined in the following manner.

If Ulab is less than or equal to Ucispr NO. 191

- compliance is deemed to occur if no measured disturbance exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance exceeds the disturbance limit.

If Ulab is greater than Ucispr

- compliance is deemed to occur if no measured disturbance, increased by (Ulab Ucispr), exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance, increased by (Ulab Ucispr), exceeds the disturbance limit.
- If the measurement value is lower or equal to the limit, the EUT is considered to pass the test.



## SK TECH CO., LTD.

Page 12 of 17

## 5. EMISSION Test

## 5.1 Conducted Emissions

Result: PASS

The line-conducted facility is located inside a 2.6M x 3.6M x 7.0M 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.



# SK TECH CO., LTD.

Page 13 of 17

### **Table 2: Test Data, Conducted Disturbance**

### <Quasi-Peak>

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
0.205	40.73	Ν	0.13	0.02	40.88	63.41	22.53
0.275	40.61	N	0.13	0.02	40.76	60.97	20.21
0.345	39.54	L	0.11	0.02	39.67	59.08	19.41
0.480	29.98	L	0.11	0.02	30.11	56.34	26.23
10.035	33.74	N	0.35	0.24	34.33	60.00	25.67
15.050	36.47	N	0.47	0.31	37.25	60.00	22.75

### <Average>

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
0.205	38.82	N	0.13	0.02	38.97	53.41	14.44
0.275	39.07	RN	0.13	0.02	39.22	50.97	11.75
0.345	37.51	L	0.11	0.02	37.64	49.08	11.44
0.410	30.28 🔻	N	0.13	0.02	30.43	47.65	17.22
0.480	28.90	L	0.11	0.02	29.03	46.34	17.31
15.050	31.45	N	0.47	0.31	32.23	50.00	17.77

TESTING NO 191

### **▶** NOTE

- \* C/F = Correction Factor
- \* C/L = Cable Loss
- \* LINE : L = Line-PE, N = Neutral-PE
- \* Margin Calculation Margin(Q.P) = Limit - Actual [Actual(Q.P)= Reading(Q.P) + C/F + C/L]



# SK TECH CO., LTD.

Page 14 of 17

Figure 1: Spectral Diagram, LINE - PE

 SK TECH Co., Ltd.
 06 Jul 2007
 18:12

 CONDUCTED DISTURBANCE

 EUT:
 IS4010E

 Manuf:
 Op Cond:

 Operator:
 Operator:

 Test Spec:
 FCC Part15 SubpartB

 Comment:
 LINE-PE

 Result File:
 IS4010EL.dat: New Measurement

(1 Range) Scan Settings Frequencies Receiver Settings Start Stop Step IF BW Detector M-Time Preamp OpRge Atten 150kHz 30MHz 10kHz PK+AV 60dB 5kHz 20msec Auto

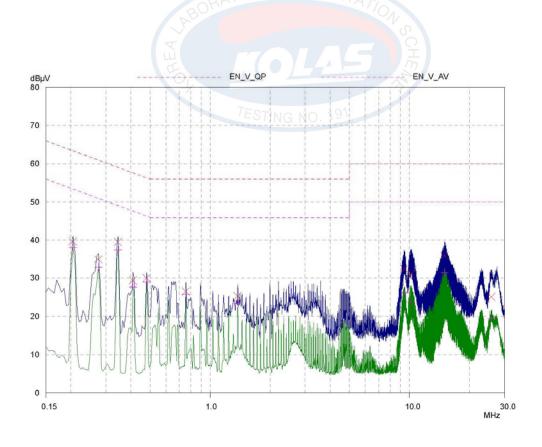
Final Measurement:

 Detectors:
 X QP / + AV

 Meas Time:
 1sec

 Peaks:
 8

 Acc Margin:
 35 dB





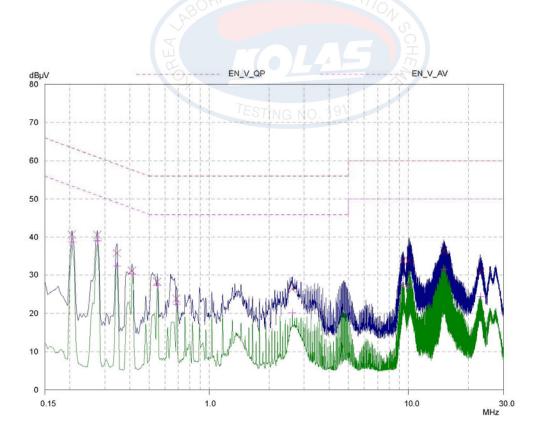
# SK TECH CO., LTD.

Page 15 of 17

Figure 2: Spectral Diagram, NEUTRAL - PE

SK TECH Co., Ltd. 06 Jul 2007 17:40 CONDUCTED DISTURBANCE IS4010E Manuf: Op Cond: Operator: Test Spec: FCC Part15 SubpartB NEUTRAL-PE Comment: Result File: IS4010EN.dat : New Measurement (1 Range) Scan Settings Frequencies Receiver Settings Start Stop Step IF BW Detector M-Time Preamp OpRge Atten 150kHz 30MHz 10kHz PK+AV 60dB 5kHz 20msec Auto Final Measurement: Detectors: X QP / + AV

Detectors: X QP7+ AV
Meas Time: 1sec
Peaks: 8
Acc Margin: 35 dB





### SK TECH CO., LTD.

Page 16 of 17

### 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 Trilog-Broadband Antenna.

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.



## SK TECH CO., LTD.

Page 17 of 17

**Table 3: Test Data, Radiated Emissions** 

Frequency	Pol.	Height	Real	Correction Factor				T-Fact	Data	Limits	Margin
[MHz]		[m]	Reading	Antenna	Cable	[dB]	[dBuV/m]	[dBuV/m]	[dB]		
98.02	V	1.0	9.2	7.9	1.0	8.9	18.1	30.0	11.9		
155.49	V	1.0	9.3	12.6	1.1	13.7	23.0	30.0	7.0		
189.33	V	1.0	7.2	11.0	1.2	12.2	19.4	30.0	10.6		
216.30	V	1.0	4.2	9.3	1.3	10.6	14.8	30.0	15.2		
437.52	V	2.5	7.7	15.2	2.0	17.2	24.9	37.0	12.1		
499.40	V	2.9	7.3	16.7	2.1	18.8	26.1	37.0	10.9		
799.99	V	1.2	7.1	22.3	2.8	25.1	32.2	37.0	4.8		

Table. Radiated Measurements at 3-meters

### **NOTES:**

- 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 Fact (Antenna+Cable)
- 7. Margin = Limits Data