

TEST REPORT

STANDARD : FCC Part15 Subpart C Section 15.207 & 15.209

Applicant	Testing Laboratory
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Equipment Type	ID card reader
Trademark	Sankyo
Model(s)	ISI220-0332
Serial No.	DSR-002-0001
Equipment Authorization	Certification (FCC ID : WJ6-ISI220033201A)
Test Result	Complied
Report Number	JN10120008(R1)
Report Issue Date	February 3, 2011

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The test report JN10120008 was superseded by this test report.

Approved by

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SECTION 1. GENERAL INFORMATION

TEST PERFORMED

Location	Nagano No.3 Test Site	
EUT Received	December 8, 2010	
Date of Test	From December 8, 2010 to February 1, 2011	
Standard Applied	FCC Part15C – Section 15.207 & 15.209	
	Intentional Radiators	
Measurement methods	ANSI C63.4-2003	
Test Procedure	Document number : RJP-EM001, RJP-EM003	
Deviation from Standard(s)	None	

QUALIFICATIONS OF TESTING LABORATORY

ACCREDITATION	SCOPE	LAB. CODE	Remarks
VLAC	EMC Testing	VLAC-008-4	JAPAN
BSMI	EMC Testing	SL2-IN-E-6007	TAIWAN
FILING			
VCCI	EMC Testing	R-260, C-282, C-263, T-1730, T-1727 R-261, C-283, C-264, T-1732, T-1733 R-262, C-422, C-265, T-1734, T-1735 G-123	JAPAN
FCC	EMC Testing	Designation Number : JP0010	USA
IC	EMC Testing	2042O-1	CANADA
SAUDI ARABIA	EMC Testing	N/A	

ABBREVIATIONS

EUT	Equipment Under Test	DoC	Declaration of Conformity
AMN	Artificial Mains Network	ISN	Impedance Stabilization Network
LISN	Line Impedance Stabilization Network	Q-P	Quasi-peak
AMP	Amplifier	AVG	Average
ATT	Attenuator	PK	Peak
ANT	Antenna	Cal	Calibration
BBA	Broadband Antenna	N/A	Not applicable or Not available
DIP	Dipole Antenna	LCD	Liquid-Crystal Display
AE	Associated Equipment	HDMI	High-Definition Multimedia Interface

SECTION 2. SUMMARY OF TEST RESULTS

The minimum margins to the limits are as follows:

Test	Reference < FCC >	Result
Conducted disturbance at mains terminals	15.207	Pass
Radiated disturbance	15.205 15.209	Pass
Voltage Varied	15.31 (e)	Pass

Note :

- 1. As for the FCC Part 15 Subpart B-Unintentional Radiators, the EUT has been measured and declared as DoC by NIDEC SANKYO CORPORATION.
- 2. See Section 10 for details.

SECTION 3. EQUIPMENT UNDER TEST

The equipment under test (EUT) consisted of the following apparatus.

3.1 System Configuration

Symbol	Item	Mode	l No.	Serial No.	Manufacturer	Remarks
A1	ID card reader	ISI220)-0332	DSR-0020001	NIDEC SANKYO CORPORATION	
A2	AC adapter	UEA360-2425		A02-0093967	UNIFIVE Co., Ltd.	accessories
Rated Po	Rated Power : AC100-240 V, 50/ 60 Hz, 1.5 A					
Supplied Power : AC120 V, 60 Hz						
Conditio	n of Equipment	Preproduction				
Туре			Tabletop			
Suppres	sion Devices		No Modifications by the laboratory were made to the device			

3.2 Overview of EUT :

Carrier Frequency	13.56 MHz +/-50ppm
Modulation Method	Transmitting – Amplitude Shift Keying
RF Output Power	40.9 dBµV/m (at 3.0m : Measurement value)

3.3 Port(s)/Connector(s)

Port Name	Connector Type	Connector Pin	Remarks
USB	USB Type A	4 pin	

3.4 Highest Frequency Oscillator(s) / Crystal(s)

Base Clock	Operating Frequency	Board Name	Remarks
13.56 MHz	13.56 MHz	RF Board	
48 MHz	192 MHz	Main Board	
	480 MHz	Main Board	Highest Frequency

3.5 Frequency Range of Measurements

	Required Measurement Frequency Range	Measured Frequency Range
Conducted	0.15 – 30 MHz	0.15 – 30 MHz
Radiated (Magnetic Field)	0.009 – 30 MHz	0.009 – 30 MHz
Radiated (Electric Field)	30 – 5000 MHz	30 – 5000 MHz

SECTION 4. SUPPORT EQUIPMENT

Symbol	ltem	Model No.	Serial No.	Manufacturer	FCC ID	
В	Computer	GQ646AW#ABJ	JPA80708FD	HP	DoC	
С	LCD	510MPS	MH15H4JXA00527Y	SAMSUNG	DoC	
D	Keyboard	KB-0316	BC3480DGAVJ5EL	HP	DoC	
E	Mouse	M-SBF96	FB7330AN3VB1TXG	HP	DoC	
F	Printer	P850A	1YLY193767	EPSON	BKMP850A	
G	ID card	G05A251A01	None	TMP CO.,LTD	N/A	
Supplied Power:						
B, C, F	AC120 V, 60 Hz	2				

The EUT was supported by the following equipment during the test.

Note : IC card are not self powered.

SECTION 5. USED CABLE(S)

The following cable(s) was used for the test.

No.	Name	Length (m)	Shield	Metal Connector	Ferrite Core
1	USB cable	4.00	Yes	Yes	
2	Video cable	1.80	Yes	Yes	
3	Keyboard cable	1.80	Yes	Yes	
4	Mouse cable	1.80	Yes	Yes	
5	Parallel cable	2.10	Yes	Yes	
6	Power cable (DC) for EUT	1.80	Yes	Yes	
7	Power cable (AC) for EUT	1.83	No	No	
8	Power cable for Computer	1.90	No	No	
9	Power cable for LCD	1.80	No	No	
10	Power cable for Printer	1.80	No	No	

Note :

1. No ferrite core is attached to the outer cables.

SECTION 6. TEST CONFIGURATION

* : EUT



The symbols and numbers assigned to the equipments and cables on this diagram correspond to the ones in Sections 3 to 5.

SECTION 7. OPERATING CONDITION

The EUT was operated under the following conditions during the test.

7.1 Operating Condition

The test was carried out under Continuous test mode. EUT was examined in the operating conditions that had maximum emissions.

7.2 Operating Flow [Continuous test mode]

Following operations were performed continuously.



SECTION 8. TEST PROCEDURE(S)

Test was carried out under the following conditions.

Conducted disturbance at mains terminals

Test setup as per standard



* Reference Ground plane : greater than 2 x 2m

Diagram of the measuring instruments



Setting for the instruments

Frequency [MHz]	Instrument	Detector Function	Resolution Bandwidth	Video Bandwidth
0 15 30	Receiver	Quasi Peak	10 kHz	N/A
0.15 - 50		Average	10 kHz	N/A

[Preliminary Measurement]

EUT is tested on all operating conditions.

The spectrum analyzer is controlled by the computer program to sweep the frequency range to be measured, then spectrum chart is plotted out to find the worst emission conditions in operating mode and/or configuration decision for the final test.

All leads other than safety ground are tested.

[Final Measurement]

The EUT is operated in the worst emission condition found by the preliminary test.

The equipment and cables are arranged or manipulated within the range of the test standard in the above condition.

At least six highest spectrum are measured in quasi-peak and average (if necessary) using the test receiver.

Radiated disturbance Test setup as per standard



Diagram of the measuring instruments





Antenna

< Below 30MHz >

Setting for the instruments

Frequency [MHz]	Instrument	Detector Function	Resolution Bandwidth	Video Bandwidth	
0.009 - 0.15	Receiver	Quasi Peak	200 Hz	N/A	
0.15 - 30	Receiver	Quasi Peak	10 kHz	N/A.	

[Preliminary Measurement]

EUT is tested on all operating conditions.

The Loop antenna is used for Magnetic field measurements on the frequency range 0.009 – 30 MHz.

The antenna mast is attachable to the Loop antenna and antenna's center height is set 1 meter above the ground. Antenna angle is adjustable 0 to 360 degree and antenna polarization is also changed. (vertical and horizontal)The spectrum analyzer is set max-hold mode and swept during turntable was rotated 0 to 360 degree. Then spectrum chart are plotted out to find the worst emission conditions in configuration, operating mode, or ambient noise notation.

[Final Measurement]

The EUT operated in the worst emission condition found by the preliminary test.

The turntable azimuth (EUT direction) and antenna angle are adjusted the position so that maximum field strength is obtained for each frequency spectrum to be measured.

The equipment and cables are arranged or manipulated within the range of the test standard in the above condition. Higher spectrum is measured by the test receiver (quasi-peak)

< 30 - 1000MHz >

Setting for the instruments

Frequency [MHz]	Instrument	Detector Function	Resolution Bandwidth	Video Bandwidth	
30 – 1000	Receiver	Quasi Peak	120 kHz	N/A	
Above 1000	Spectrum	Peak	1 MHz	1 MHz	
	Analyzer	Average	1 MHz	10 Hz	

[Preliminary Measurement]

EUT is tested on all operating conditions.

The spectrum analyzer is set max-hold mode and swept during turntable was rotated 0 to 360 degree,

And find the worst emission conditions in configuration, operating mode, or ambient noise notation.

[Final Measurement]

The EUT operated in the worst emission condition found by the preliminary test.

The turntable azimuth (EUT direction) and antenna height are adjusted the position so that maximum field strength is obtained for each frequency spectrum to be measured.

The equipment and cables are arranged or manipulated within the range of the test standard in the above condition. At least six highest spectrums are measured by the test receiver (quasi-peak) and spectrum analyzer (peak and average). When the uncertain result was obtained (30 - 1000 MHz), the measurement is retried by using the half wave dipole antenna instead of the broadband antenna.

Voltage Varied



[Preliminary Measurement]

EUT is tested on all operating conditions.

The power supply voltage to the EUT was varied from 85% to 115% of the normal value measured at the input to the EUT.

[Final Measurement]

The EUT operated in the worst emission condition found by the preliminary test.

The power supply voltage to the EUT was varied from 85% to 115% of the normal value measured at the input to the EUT.

SECTION 9. MEASUREMENT UNCERTAINTY

Radiated disturbance at 3m	U _{lab}	U _{cispr}					
30 MHz – 1000 MHz	+/- 4.48 dB						
CISPR22	+/- 4.20 dB	5.2 dB					
ANCI 63.4	+/- 4.20 dB						
Radiated disturbance at 10m	-	-					
30 MHz – 1000 MHz	+/- 4.75 dB	5 1 dB					
Above 1 GHz	+/- 4.48 dB	5.1 00					
Radiated disturbance at 30m							
N/A 5.2 dB							
Radiated disturbance (power)							
11.7 GHz – 12.7 GHz	N/A	Nil					
Conducted disturbance at mains terminals							
9 kHz – 150 kHz	+/- 2 87 dB	4.0 dB					
150 kHz – 30 MHz	17- 2.07 dB	3.6 dB					
Conducted disturbance at telecon	munication ports (voltage)						
9 kHz – 30 MHz	+/- 3.02 dB	Nil					
Conducted disturbance at telecon	nmunication ports (current)						
9 kHz – 30 MHz	+/- 3.31 dB	Nil					
Conducted disturbance at termina	Conducted disturbance at terminals						
150 kHz – 30 MHz	+/- 3.07 dB	Nil					
Disturbance power							
30 MHz – 300 MHz	+/- 4.21 dB	4.5 dB					
Radiated Magnetic Field							
9 kHz – 30 MHz	+/- 3.30 dB	Nil					

The above expanded instrumentation uncertainty, $U_{lab.}$, is estimated in accordance with CISPR 16-4-2. Traceability to national standard in SI units is ensured with these values.

Compliance with the limits in this standard are determined without in consideration of the measurement uncertainty of the measurement instrumentation.

SECTION 10. EVALUATION OF TEST RESULTS

10.1 Conducted disturbance at mains terminals (Section15.207)



emiT 3, 0, 0, 0

10.2 Radiated disturbance (Section15.209)

(0.009 - 30 MHz)

Naohei Murakami

Intertek Japan K.K.

Nagano No.3 Test Site

Radiated Magnetic Field

ENGINEER

HUMIDITY : 42.0 [%] NOTE :	MODEL NO.ISSERIAL NO.DTEST MODECPOWER SOURCEADATE TESTEDDFILE NOREGULATIONFITEST METHODADISTANCE3.TEMPERATURE22HUMIDITY42NOTE-	VSR-002-0001 continuous test mode (C120 V, 60 Hz Nec 08 2010 CC Part15C (15.209) (NSI C63.4-2003 (00 [m] 2.0 [degC] 2.0 [%]
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:



FRI [No]	EQUENCY [MHz]	READING [dBuV]	3	FACTOR [dB]	ł	EMISSION [dBuV/m]	[4	LIMIT dBuV/m]	MARG [dB]	SIN
_		Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	0.1620	<u>53.3</u>	44.8	9.6	9.6	<u>62.9</u>	54.4	103.4	<u>40.5</u>	49.0
2	0.2698	60.1	50.8	9.6	9.6	69.7	60.4	99.0	29.3	38.6
3	0.7540	<u>40.2</u>	32.1	9.8	9.8	<u>50.0</u>	41.9	70.1	<u>20.1</u>	28.2
4	1.2439	22.8	<u>25.3</u>	9.9	9.9	32.7	<u>35.2</u>	65.7	33.0	<u>30.5</u>
5	6.8198	22.3	<u>38.0</u>	10.2	10.2	32.5	<u>48.2</u>	69.5	37.0	<u>21.3</u>
6	13.5600	24.8	<u>30.5</u>	10.4	10.4	35.2	40.9	69.5	34.3	<u>28.6</u>

Higher six points are underlined.

Other frequencies : Below the FCC Part15C (15.209) limit

"The frequencies that exceed 40.9dBuV/m of the fundamental level are not emission from the RF circuit.

Please refer to the Annex B Spectrum Data."

Emisson Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)

emiT 3, 0, 0, 0

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(30 – 1000 MHz)

100 Intertek Japan K.K. : BBA BR/ : DIP Nagano No.3 Test Site 90 Spurious Emissions - Radiated Test 80 : NIDEC SANKYO CORPORATION **APPI ICANT** EUT NAME : ID card reader 70 MODEL NO. : ISI220-0332 SERIAL NO. : DSR-002-0001 Emission Level [dBuV/m] TEST MODE : Continuous test mode 60 POWER SOURCE : AC120 V, 60 Hz DATE TESTED : Dec 08 2010 50 FILE NO. REGULATION : FCC Part15C (15.209) : ANSI C63.4:2003 TEST METHOD 40 DISTANCE 3.00 [m] **TEMPERATURE** : 22.0 [degC] 30 HUMIDITY : 42.0 [%] NOTE 20 10 30M 40M 200M 400M 700M 16 70M 100M ENGINEER : Naohei Murakami Frequency [Hz] FREQUENCY ANT. READING FACTOR EMISSION LIMIT MARGIN [No] [MHz] [dBuV] [dB/m] [dBuV/m] [dBuV/m] [dB] Hori Vert Hori Vert Hori Vert Hori Vert 1 40.68 BBA -40.7 -7.5 -7.5 -33.2 40.0 6.8 2 78.84 BBA -47.7 -15.9 -15.9 -31.8 40.0 -8.2 -11.6 3 114.00 BRA 472 -11.6 35.6 43.5 79 4 135.60 BBA 43.8 48.0 -12.4 -12.4 31.4 35.6 43.5 12.1 7.9 5 149.16 BBA 49.4 -13.0 -13.0 36.4 43.5 7.1 -6 162.01 BBA 49.8 -13.1 -13.1 36.7 43.5 6.8 51.7 38.6 4.9 7 162.72 BRA 48.2 53.0 -13 1 -131 35.1 <u>39.9</u> 43.5 8.4 <u>3.6</u> 8 176.28 BBA 50.2 -12.3 -12.3 <u>37.9</u> 43.5 <u>5.6</u> -9 203.40 BBA <u>48.5</u> 47.8 -10.7 -10.7 <u>37.8</u> 37.1 43.5 <u>5.7</u> 6.4 10 288.01 BBA -7.0 -7.0 <u>41.5</u> 46.0 <u>4.5</u> <u>48.5</u> -576.02 BBA -1.3 -1.3 46.0 11 37.7 42.2 36.4 40.9 9.6 <u>5.1</u> 7.2 12 960.00 BBA 33.3 5.5 5.5 38.8 46.0 Higher six points are underlined. Other frequencies : Below the FCC Part15C (15.209) limit "The frequencies that exceed 40.9dBuV/m of the fundamental level are not emission from the RF circuit. Please refer to the Annex B Spectrum Data." Emisson Level = Read + Factor(Antenna, Antenna Pad, Cable, Preamp) ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

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(30 – 1000 MHz)

Intertek Japan K.K. 100 : PEK PEK : AVG : AVG Nagano No.3 Test Site 90 **Radiated Electric Field** 80 APPLICANT : NIDEC SANKYO CORPORATION EUT NAME : ID card reader 70 MODEL NO. : ISI220-0332 SERIAL NO. : DSR-002-0001 Emission Level [dBuV/m] TEST MODE : Continuous test mode 60 POWER SOURCE : AC120 V, 60 Hz DATE TESTED : Dec 08 2010 50 FILE NO. REGULATION : FCC Part15C TEST METHOD : ANSI C63.4-2003 40 DISTANCE 3.00 [m] **TEMPERATURE** 23.0 [degC] 30 HUMIDITY : 40.0 [%] NOTE 20 10 0_ 1G 4G 56 2G 3G ENGINEER : Naohei Murakami Frequency [Hz] FACTOR FREQUENCY MODE READING EMISSION LIMIT MARGIN [No] [MHz] [dBuV] [dB] [dBuV/m] [dBuV/m] [dB] Hori Hori Vert Hori Vert Vert Hori Vert 1 1152.04 PEK . 56.3 -1.5 -1.5 _ <u>54.8</u> 74.0 19.2 2 1152.04 AVG -<u>38.3</u> -1.5 -1.5 -<u>36.8</u> 54.0 -<u>17.2</u> -0.4 74.0 25.7 1344.04 PEK -0.4 3 48.7 -48.3 --4 1344.04 AVG _ <u>38.2</u> -0.4 -0.4 _ <u>37.8</u> 54.0 _ <u>16.2</u> 5 1496.63 PEK 47.5 46.7 74.0 -0.8 -0.8 27.3 6 1496.63 AVG <u>45.5</u> -0.8 -0.8 54.0 <u>44.7</u> <u>9.3</u> 1536.10 PEK 74.0 50.5 -0.9 <u>49.6</u> 7 -0.9 24.4 8 1536.10 AVG _ 39.6 -0.9 -0.9 _ 38.7 54.0 <u>15.3</u> Higher six points are underlined. Other frequencies : Below the FCC Part15C limit "The frequencies that exceed 40.9dBuV/m of the fundamental level are not emission from the RF circuit. Please refer to the Annex B Spectrum Data." Emisson Level = Read + Factor(Antenna, Antenna Pad, Cable, Preamp) ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

10.3 Restricted bands of operation



10.4 Voltage Varied

Tested Date	: December 8, 2010				
	: + 50ppm	=	13.560678	[MHz]	
	: - 50ppm	=	13.559322	[MHz]	
Engineer	: Naohei Mu	rakan	ni		

Supply Voltage [V]		Operation Frequency [MHz]	Meter Reading [dBµV/m]	Result
85%	102	13.56003	28.2	Pass
100%	120	13.56003	28.4	Pass
115%	138	13.56003	28.2	Pass

SECTION 11. LIST OF MEASURING INSTRUMENTS

Instrument	Model No.	Serial No.	Manufacturer	Cal. Date	Due date
Conducted disturban	ce at mains terminals				
LISN (EUT)	ESH2-Z5	892377/022	ROHDE & SCHWARZ	Dec. 02, 09	Dec. 31, 10
10 dB Attenuator	CFA-01	CEC052	TAMAGAWA	Apr. 07, 10	Apr. 30, 11
LISN (Peripheral)	ESH3-Z5	844982/001	ROHDE & SCHWARZ	Nov. 02, 10	Nov. 30, 11
50 Ω Termination	CT-01	CE1012	TAMAGAWA	Nov. 02, 10	Nov. 30, 11
Coaxial cable	5D-2W(5.5 m)	N3C-1	Intertek		
Coaxial cable	5D-2W(1.6 m)	N3C-2	Intertek	Am. 07 40	Arra 00, 11
Coaxial cable	5D-2W(0.7 m)	N3C-3	Intertek	Apr. 07, 10	Apr. 30, 11
Coaxial cable	5D-2W(1.6 m)	N3C-4	Intertek		
Digital Multimeter	10	68481798	FLUKE	Jun. 29, 2010	Jun30,2011
Radiated disturbance	•	<u> </u>		•	
Broad Band antenna	LPB-2513/A	1092	A.R.A.	Jun 03, 10	Jun. 30, 11
Loop antenna	HFH2-Z2	892665/008	ROHDE & SCHWARZ	May 17, 10	May 31, 11
6 dB Attenuator	8491A	36306	HEWLETT PACKARD		
Step Attenuator	8494B	2812A15596	HEWLETT PACKARD		Apr. 30, 11
Amplifier	8447D	2727A05731	HEWLETT PACKARD		
Coaxial cable	5D-SFA(9.8 m)	N3R-1	Intertek	4	
Coaxial cable	12D-SFA(8.0 m)	N3R-2	Intertek	Apr. 07, 10	
Coaxial cable	5D-2W(1.6 m)	N3R-3	Intertek	-	
Coaxial cable	5D-2W(0.4 m)	N3R-4	Intertek	-	
Coaxial cable	5D-2W(0.4 m)	N3R-5	Intertek	4	
Coaxial cable	5D-2W(0.7 m)	N3R-6	Intertek	-	
Coaxial cable	5D-2W(1.6 m)	N3R-7	Intertek		
Double Ridged antenna	BBHA9120D	278	Schwarzbeck	Apr. 21, 10	Apr. 30, 11
6 dB Attenuator	SFA-01A 6 dB	CEC039	TAMAGAWA		
3 dB Attenuator	SFA-01A 3 dB	CEC051	TAMAGAWA		
Amplifier (1-18 GHz)	EAU-3018GXA	10315	ELENA	Apr. 22, 10	Apr. 30, 11
Coaxial cable	SUCOFLEX104 (15.0 m)	G1 (242241/4)	SUHNER		
Coaxial cable	S04272B (0.7m)	G3 (11SMA/0.7N)	SUHNER	Sep. 16, 10	Sep. 30, 11
EMC Analyzer	8563E (ROM revision 960830)	3650A06436	Agilent	Jun. 11, 10	Jun. 30, 11
Site Attenuation				Apr. 05, 10	Apr. 30, 11
Common					
RF Switch	ACX-150-1	CE3010	Intertek	Apr. 07, 10	Apr. 30, 11
Test receiver	ESS (Firmware Version 1.08)	845637/008	ROHDE & SCHWARZ	Mar. 04, 10	Mar. 31, 11
Testing Software :	emiT (Version 3,0,0,0)				

Note : Test instruments are calibrated according to Quality Manual and Calibration Rules of Intertek Japan K.K.