

SECTION 2

Test Reports of Emission

(EN55022/2010, EN61000-3-2/2006+A1/2009+A2/2009, EN61000-3-3/2008)

EN55022/2010

Radiated Interference Measurement

<i>Equipment</i>	<i>Model</i>	<i>Serial No.</i>
Multi-Function Printer	TASKalfa 1801 / 2201	ZBH3900042
Paper Feeder	PF-480	LBN3900023
		LBN3900027
		LBN3900029
Document Processor	DP-480	ZBK3500252
Duplex Unit	DU-480	TEST-1
FAX Kit	FAX System (X)	TEST-1
Network Printer Kit	IB-33	TEST-1

This test was applied as follows.

(30MHz – 1GHz)

<i>Frequency</i>	<i>Limit</i>	<i>Result</i>
30 - 230 MHz	30dB	Pass
230 - 1000 MHz	37dB	Pass

(1GHz-6GHz)

<i>Frequency</i>	<i>Limit</i>		<i>Result</i>
	<i>Average</i>	<i>Peak</i>	
1 - 3 GHz	50dB	70dB	Pass
3 - 6 GHz	54dB	74dB	Pass

We entrusted this test to Tokin EMC Engineering Co., Ltd.

See the attached documents for details.

EN55022/2010

Conducted Interference Measurement

<i>Equipment</i>	<i>Model</i>	<i>Serial No.</i>
Multi-Function Printer	TASKalfa 1801 / 2201	ZBH3900042
Paper Feeder	PF-480	LBN3900023
		LBN3900027
		LBN3900029
Document Processor	DP-480	ZBK3500252
Duplex Unit	DU-480	TEST-1
FAX Kit	FAX System (X)	TEST-1
Network Printer Kit	IB-33	TEST-1

This test was applied as follows.

(AC Line)

<i>Frequency</i>	<i>Limit</i>	<i>Result</i>
0.15 - 0.5 MHz	66 - 56dB; Quasi-Peak 56 - 46dB; Average	Pass
0.5 - 5 MHz	56dB; Quasi-Peak 46dB; Average	Pass
5 - 30 MHz	60dB; Quasi-Peak 50dB; Average	Pass

(Telecommunication Line)

<i>Frequency</i>	<i>Current Limit</i>	<i>Result</i>
0.15 - 0.5 MHz	40 - 30dB; Quasi-Peak 30 - 20dB; Average	Pass
0.5 - 30 MHz	30dB; Quasi-Peak 20dB; Average	Pass

We entrusted this test to Tokin EMC Engineering Co., Ltd.

See the attached documents for details.

Data No. : S13X2102

Test Site : Osaka No.2 / Osaka Big Semi AC

Date of Measurement : October 9, 15, 24, 2013

Temperature : 20.1 - 24.5 degree C

Humidity : 56.5 - 72.4 %

Manufacturer : KYOCERA Document Solutions Inc.

Category : EN55022: 2010 Class B

Equipment Under Test : MFP

Model Name : TASKalfa 2201

Serial No. : ZBF3500017

Power Supply

Voltage : AC 230V

Current : - A

Frequency : 50 Hz

承認	担当	担当
		

TEST INSTRUMENTATION USED

< Conducted Emission Measurement >

(モデル名/シリアルNo./製造者/管理番号/校正日/校正有効期限)

< Main & Telecommunication Ports >

Field Strength Meter (ESCI/100706/Rohde & Schwarz/RE065/22 Aug.'13/Aug.'14)
 Spectrum Analyzer..... (ESCI/100706/Rohde & Schwarz/RE065/22 Aug.'13/Aug.'14)
 Coaxial Cable..... (5D-2W/---/Tokin/DK170/24 Mar.'13/Mar.'14)
 ISN (ST08/30177/TESEQ/LI092/18 Feb.'13/Feb.'14)
 ISN (T200A/25710/TESEQ/LI082/14 Aug.'13/Aug.'14)
 L.I.S.N..... (PN-T22/9409/Tokin/LI049/12 Mar.'13/Mar.'14)
 L.I.S.N..... (KNW-407/8/655/10/Kyoritsu/LI023/07 Nov.'12/Nov.'13)
 50ohm terminator..... (CT-03BP/11157737/TME/ME512/30 Oct.'12/Oct.'13)
 Shielded Room..... (Osaka No.2-S/Osaka No.2-S/Tokin/SA023/---/---)
 Software (EP5CE/9902044/TOYO/SW025-6/---/---)
 Software (EMC Data Calculation Program/---/AES/SW059-1/---/---)

* The date of measurement was in validity term of calibration.

< Radiated Emission Measurement >

(モデル名/シリアルNo./製造者/管理番号/校正日/校正有効期限)

< 30MHz to 1000MHz >

Field Strength Meter..... (ESCI/100295/Rohde & Schwarz/RE060/11 Aug.'13/Aug.'14)
 Spectrum Analyzer (ESCI/100295/Rohde & Schwarz/RE060/11 Aug.'13/Aug.'14)
 Biconical Antenna (VHA9103/2443/Schwarzbeck/TB038/03 Apr.'13/Apr.'14)
 Logperiodic Antenna (UHALP9108-A/UHALP9108-A0754/Schwarzbeck/
 TL026/03 Apr.'13/Apr.'14)
 Pre-Amplifier (310N/261803/Sonowa instrument Co./AM037/24 Mar.'13/Mar.'14)
 Site Establishment Cable.. (DKT33/10m/30-1000MHz/R/Tokin/DKT33/24 Mar.'13/Mar.'14)
 Semi Anechoic Chamber.. (Osaka Big Semi AC/Osaka Big Semi AC/Tokin/
 SA027/24 Mar.'13/Mar.'14)
 Software (EP5RE/---/TOYO/SW035-5/---/---)
 Software (EMC Data Calculation Program/---/AES/SW059-1/---/---)

< 1000MHz to 5000MHz >

Field Strength Meter..... (ESCI/100295/Rohde & Schwarz/RE060/11 Aug.'13/Aug.'14)
 Spectrum Analyzer (E7405A/MY42000101/Agilent Technologies/
 SP052/05 Jun.'13/Jun.'14)
 DRG Horn Antenna..... (3117/00114388/ETS-LINDGREN/AN056/08 Apr.'13/Apr.'14)
 Pre-amplifier..... (TPA0108-40/0608/TOYO/AM049/24 Mar.'13/Mar.'14)
 Coaxial Cable (SUCOFLEX104A/46235/4A/HUBER+SUHNER/
 DK296/24 Mar.'13/Mar.'14)
 Coaxial Cable (SUCOFLEX104A/46236/4A/HUBER+SUHNER/
 DK297/24 Mar.'13/Mar.'14)
 Semi Anechoic Chamber.. (Osaka Big Semi AC/S-VSWR/Tokin/SA034/24 Mar.'13/Mar.'14)
 Software (EP5RE/---/TOYO/SW035-5/---/---)
 Software (EMC Data Calculation Program/---/AES/SW059-1/---/---)

★TASKalfa 2201 (EN55022 Class B)

◎EUT

Equipment	Model	S/N	Manufacturer
MFP	TASKalfa 2201	ZBH3900042	KYOCERA D.S.
Document Processor	DP-480	ZBK3500252	KYOCERA D.S.
Duplex Unit	DU-480	TEST-1	KYOCERA D.S.
Paper Feeder	PF-480	LBN3900023	KYOCERA D.S.
		LBN3900027	
		LBN3900029	
FAX Kit	FAX System (X)	TEST-1	KYOCERA D.S.
Printer Kit	IB-33	TEST-1	KYOCERA D.S.
PC	PC-MY30VEZE3	79007631A	NEC
HUB	CentreCOM GS908XL	007613G101300195 E1	Allied Telesis
FAX Simulator	NSE3	10261	Arai Electric
FAX	FS-1135MFP	SPL1715775	KYOCERA D.S.
Telephone	TE-202	8100758A	TAKACHIHO

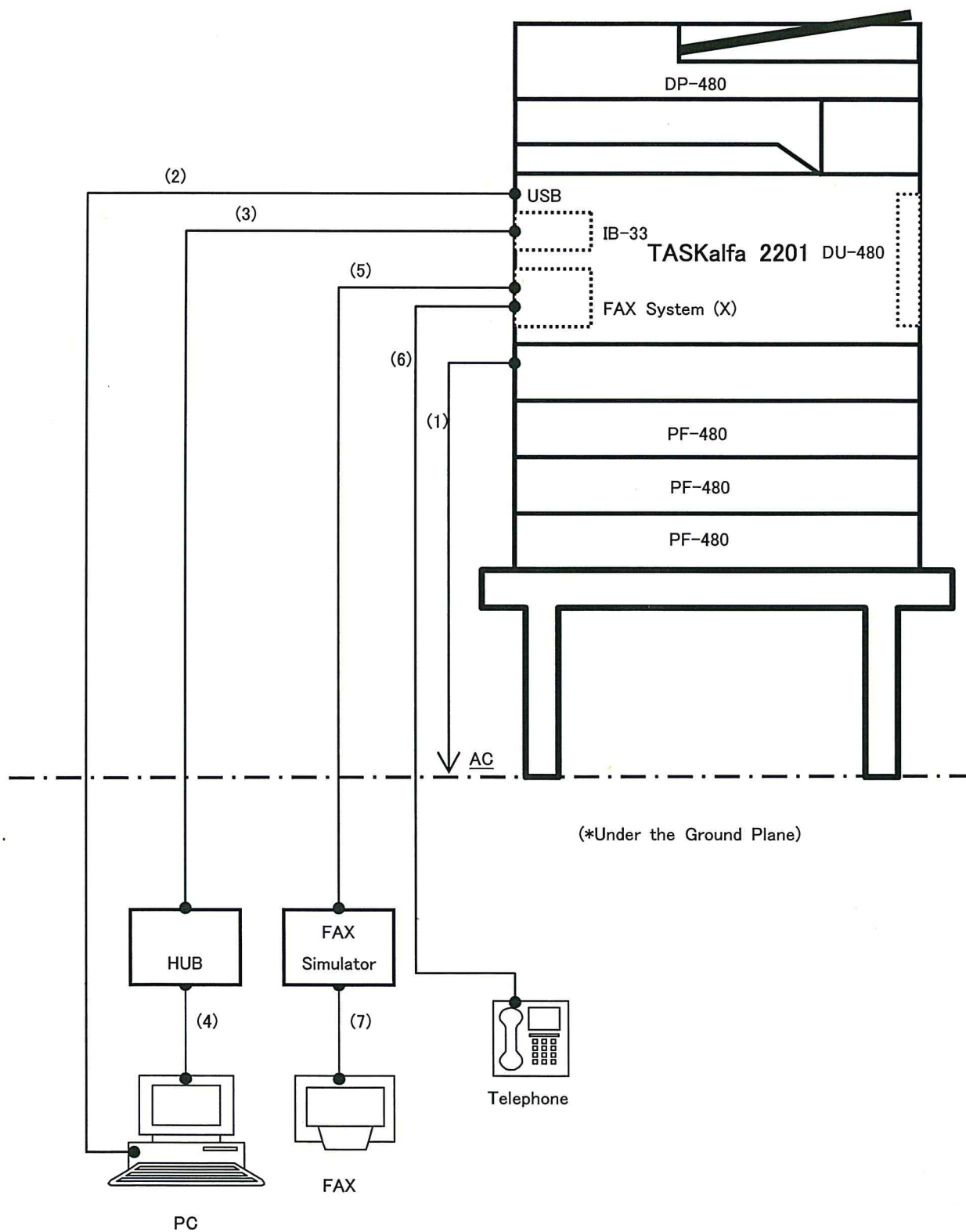
◎Operation Modes

No.	Operation Mode	Rad.EMI (30MHz-1GHz / 1GHz - 5GHz)	Con.EMI
①	Standby	○ / ○	○
②	Copy	○ / ○	○
③	USB Print + FAX TX	○ / —	---
④	LAN Print + FAX RX	○ / —	○
⑤	LAN Print (Telecommunication Ports)	---	○
⑥	FAX TX (Telecommunication Ports)	---	○
⑦	FAX RX (Telecommunication Ports)	---	○

◎Connected Cable / Cord

No.	Cable / Cord	Length	Core	Shielded	Connector
1	AC Power Cord	2.5 m	—	—	Resinous
2	USB Cable	5 m	—	○	Metallic
3	LAN Cable for MFP	10 m	—	○	Metallic
4	LAN Cable for PC	1 m	—	○	Metallic
5	Telephone Cord for FAX System	7 m	—	—	Resinous
6	Telephone Cord for Telephone	7 m	—	—	Resinous
7	Telephone Cord for FAX	1 m	—	—	Resinous

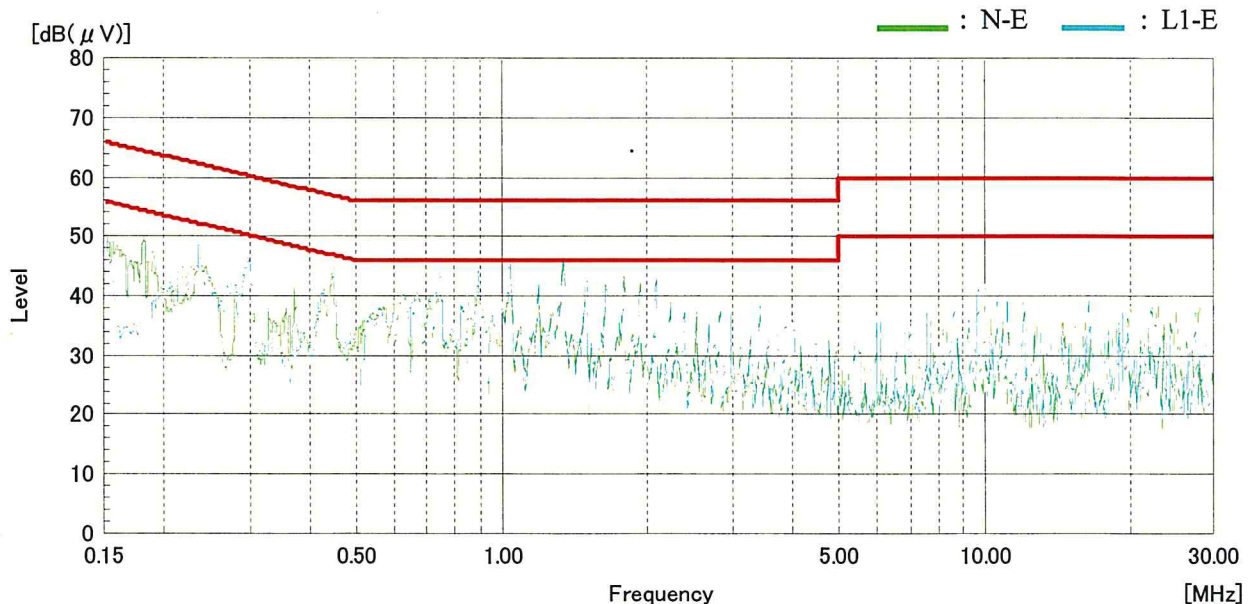
©Equipment Connection Figure



雑音端子電圧試験結果 (QP: 準尖頭値 , AV: 平均値)

Operating mode: Standby Date of measurement: October 9, 2013
Test procedure: EN55022:2010 Class B Temperature: 24.5 degree C
Tested condition: Power input 1phase AC230V Humidity: 56.5 %
Test line: AC Power Cord

	Frequency (MHz)	Level		Total Factor (dB)	Result		Limit		Margin	
		QP (dBμV)	AV (dBμV)		QP (dBμV)	AV (dBμV)	QP (dBμV)	AV (dBμV)	QP (dB)	AV (dB)
N-E	0.150	40.0	22.9	10.9	50.9	33.8	66.0	56.0	15.1	22.2
	0.297	34.8	27.9	10.9	45.7	38.8	60.3	50.3	14.6	11.5
	0.743	31.0	23.3	10.9	41.9	34.2	56.0	46.0	14.1	11.8
	1.337	35.4	27.3	11.0	46.4	38.3	56.0	46.0	9.6	7.7
	2.079	31.9	23.8	11.1	43.0	34.9	56.0	46.0	13.0	11.1
	9.797	29.0	18.9	11.2	40.2	30.1	60.0	50.0	19.8	19.9
L1-E	0.150	40.4	23.3	10.9	51.3	34.2	66.0	56.0	14.7	21.8
	0.297	34.2	26.9	11.0	45.2	37.9	60.3	50.3	15.1	12.4
	0.892	33.1	26.1	11.0	44.1	37.1	56.0	46.0	11.9	8.9
	1.337	35.4	27.8	11.0	46.4	38.8	56.0	46.0	9.6	7.2
	2.081	31.5	23.5	11.0	42.5	34.5	56.0	46.0	13.5	11.5
	9.807	30.3	19.0	11.1	41.4	30.1	60.0	50.0	18.6	19.9



Tested by

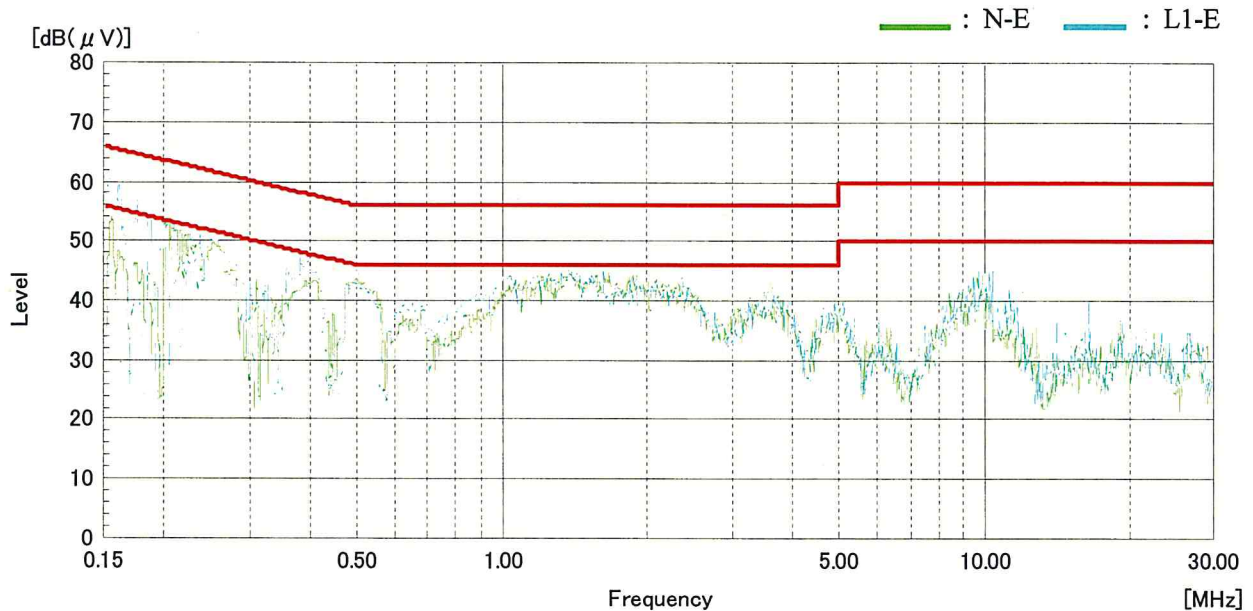
M. Morooka

Masato Morooka, Engineer

雑音端子電圧試験結果 (QP: 準尖頭値 , AV: 平均値)

Operating mode: Copy Date of measurement: October 9, 2013
Test procedure: EN55022:2010 Class B Temperature: 24.5 degree C
Tested condition: Power input 1phase AC230V Humidity: 56.5 %
Test line: AC Power Cord

	Frequency (MHz)	Level		Total Factor (dB)	Result		Limit		Margin	
		QP (dBμV)	AV (dBμV)		QP (dBμV)	AV (dBμV)	QP (dBμV)	AV (dBμV)	QP (dB)	AV (dB)
N-E	0.150	40.2	11.5	10.9	51.1	22.4	66.0	56.0	14.9	33.6
	0.252	36.5	30.7	10.9	47.4	41.6	61.7	51.7	14.3	10.1
	0.488	31.0	23.5	10.9	41.9	34.4	56.2	46.2	14.3	11.8
	0.500	30.6	24.0	10.9	41.5	34.9	56.0	46.0	14.5	11.1
	1.936	30.3	17.5	11.1	41.4	28.6	56.0	46.0	14.6	17.4
	9.696	26.2	16.1	11.2	37.4	27.3	60.0	50.0	22.6	22.7
L1-E	0.150	39.9	12.0	10.9	50.8	22.9	66.0	56.0	15.2	33.1
	0.257	36.5	29.7	11.0	47.5	40.7	61.5	51.5	14.0	10.8
	0.388	32.3	26.6	11.0	43.3	37.6	58.1	48.1	14.8	10.5
	0.986	30.7	20.2	11.0	41.7	31.2	56.0	46.0	14.3	14.8
	1.363	32.0	20.0	11.0	43.0	31.0	56.0	46.0	13.0	15.0
	9.161	25.9	15.5	11.1	37.0	26.6	60.0	50.0	23.0	23.4



Tested by

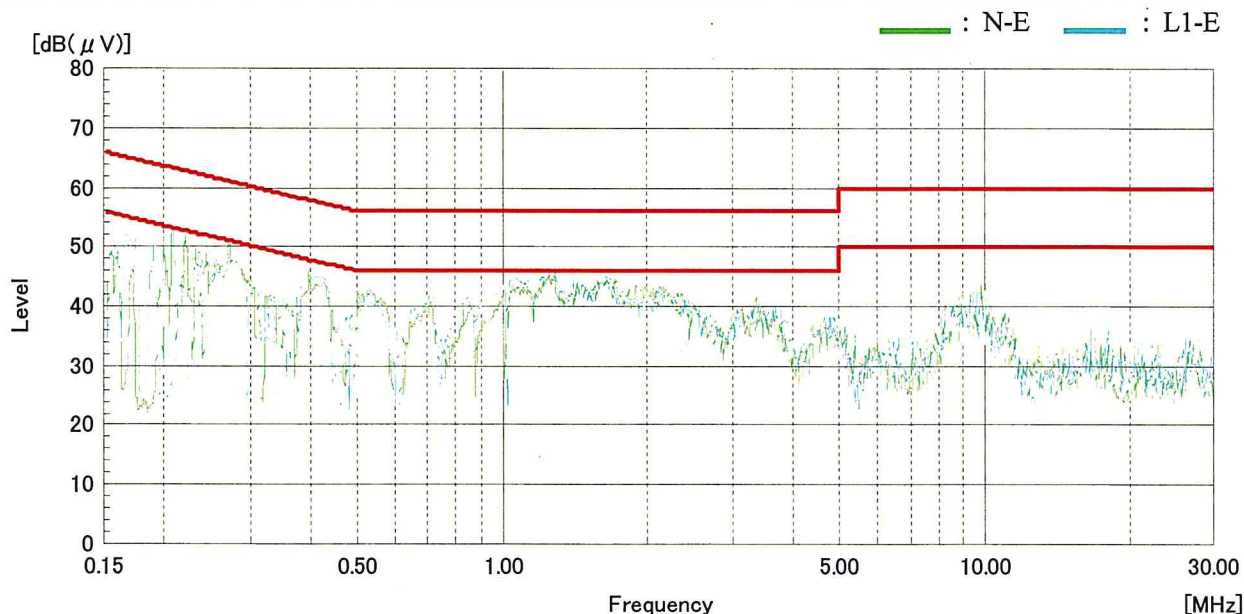
M. Morooka

Masato Morooka, Engineer

雑音端子電圧試験結果 (QP: 準尖頭値 , AV: 平均値)

Operating mode: LAN Print + FAX RX Date of measurement: October 9, 2013
Test procedure: EN55022:2010 Class B Temperature: 24.5 degree C
Tested condition: Power input 1phase AC230V Humidity: 56.5 %
Test line: AC Power Cord

	Frequency (MHz)	Level		Total Factor (dB)	Result		Limit		Margin	
		QP (dBμV)	AV (dBμV)		QP (dBμV)	AV (dBμV)	QP (dBμV)	AV (dBμV)	QP (dB)	AV (dB)
N-E	0.150	38.9	13.9	10.9	49.8	24.8	66.0	56.0	16.2	31.2
	0.273	34.3	30.1	10.9	45.2	41.0	61.0	51.0	15.8	10.0
	0.408	30.9	26.6	10.9	41.8	37.5	57.7	47.7	15.9	10.2
	1.231	31.8	20.5	11.0	42.8	31.5	56.0	46.0	13.2	14.5
	9.152	25.5	14.1	11.2	36.7	25.3	60.0	50.0	23.3	24.7
	16.012	28.9	28.0	11.2	40.1	39.2	60.0	50.0	19.9	10.8
L1-E	0.150	38.5	16.3	10.9	49.4	27.2	66.0	56.0	16.6	28.8
	0.282	34.5	30.1	11.0	45.5	41.1	60.8	50.8	15.3	9.7
	0.408	32.7	28.3	11.0	43.7	39.3	57.7	47.7	14.0	8.4
	1.233	32.4	19.7	11.0	43.4	30.7	56.0	46.0	12.6	15.3
	9.574	25.5	13.5	11.1	36.6	24.6	60.0	50.0	23.4	25.4
	16.012	29.2	28.2	11.2	40.4	39.4	60.0	50.0	19.6	10.6



Tested by

M. Morooka

Masato Morooka, Engineer

雑音端子電圧試験結果（QP: 準尖頭値，AV: 平均値）－ 通信ポート測定 －

Operating mode: LAN Print

Date of measurement: October 9, 2013

Test procedure: EN55022:2010 Class B

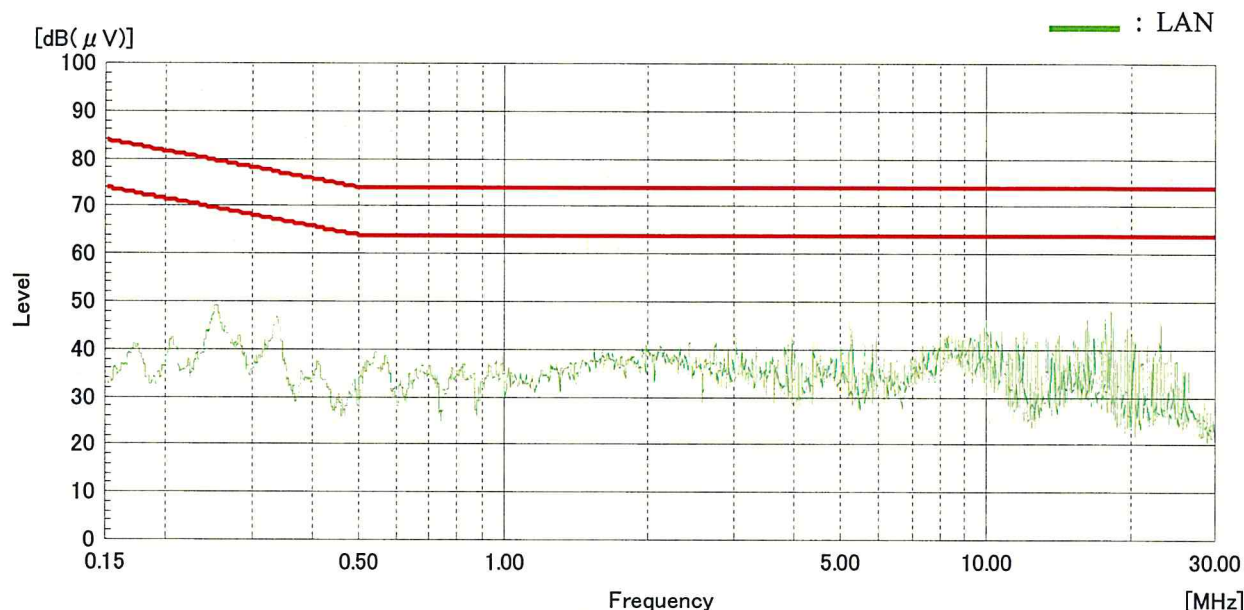
Temperature: 24.5 degree C

Tested condition: Power input 1phase AC230V

Humidity: 56.5 %

Test line: LAN Cable for MFP

	Frequency (MHz)	Level		Total Factor (dB)	Result		Limit		Margin	
		QP (dBμV)	AV (dBμV)		QP (dBμV)	AV (dBμV)	QP (dBμV)	AV (dBμV)	QP (dB)	AV (dB)
LAN	0.254	36.3	26.7	9.6	45.9	36.3	79.6	69.6	33.7	33.3
	0.338	36.1	32.6	9.6	45.7	42.2	77.3	67.3	31.6	25.1
	0.568	27.3	21.5	9.6	36.9	31.1	74.0	64.0	37.1	32.9
	3.038	31.5	28.5	9.7	41.2	38.2	74.0	64.0	32.8	25.8
	5.237	34.8	33.7	9.7	44.5	43.4	74.0	64.0	29.5	20.6
	18.244	38.1	36.4	9.8	47.9	46.2	74.0	64.0	26.1	17.8



Tested by

M. Morooka

Masato Morooka, Engineer

雑音端子電圧試験結果（ QP: 準尖頭値 , AV: 平均値 ） — 通信ポート測定 —

Operating mode: FAX TX

Date of measurement: October 9, 2013

Test procedure: EN55022:2010 Class B

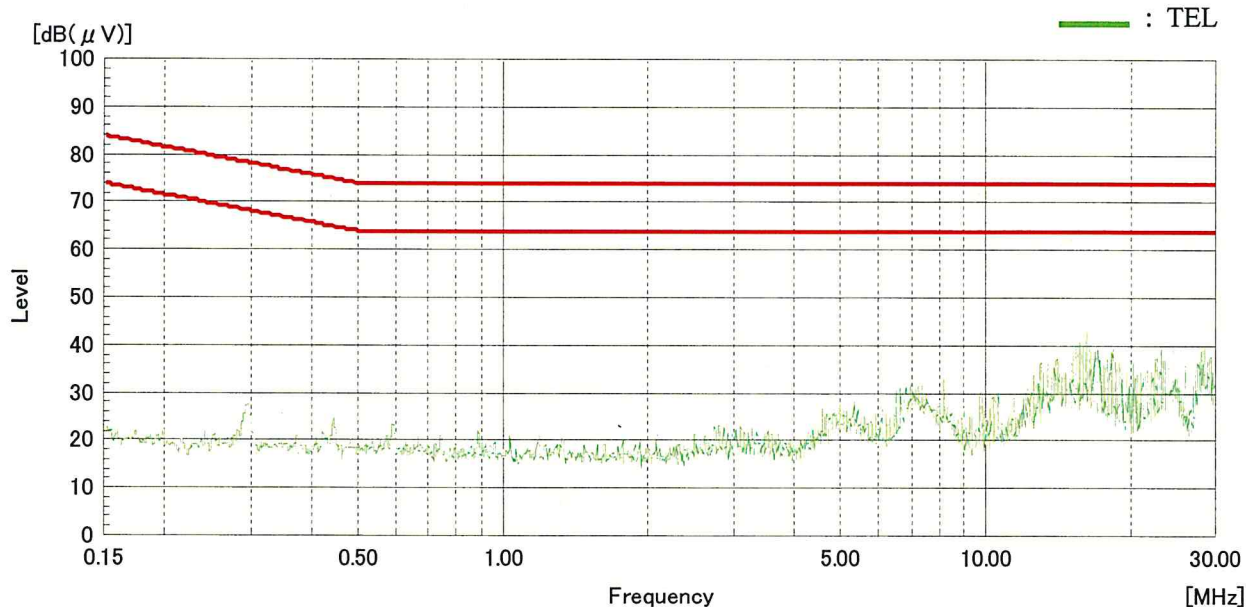
Temperature: 24.5 degree C

Tested condition: Power input 1phase AC230V

Humidity: 56.5 %

Test line: Telephone Cord for FAX System

	Frequency (MHz)	Level		Total Factor (dB)	Result		Limit		Margin	
		QP (dBμV)	AV (dBμV)		QP (dBμV)	AV (dBμV)	QP (dBμV)	AV (dBμV)	QP (dB)	AV (dB)
TEL	0.295	15.2	14.4	9.7	24.9	24.1	78.4	68.4	53.5	44.3
	4.971	11.2	5.0	9.7	20.9	14.7	74.0	64.0	53.1	49.3
	6.800	20.2	16.1	9.7	29.9	25.8	74.0	64.0	44.1	38.2
	14.040	25.1	18.5	9.8	34.9	28.3	74.0	64.0	39.1	35.7
	16.255	30.9	22.0	9.9	40.8	31.9	74.0	64.0	33.2	32.1
	24.576	30.0	29.8	10.0	40.0	39.8	74.0	64.0	34.0	24.2
	28.663	25.1	16.9	10.0	35.1	26.9	74.0	64.0	38.9	37.1



Tested by

M. Morooka

Masato Morooka, Engineer

雑音端子電圧試験結果（ QP: 準尖頭値 , AV: 平均値 ） — 通信ポート測定 —

Operating mode: FAX RX

Date of measurement: October 9, 2013

Test procedure: EN55022:2010 Class B

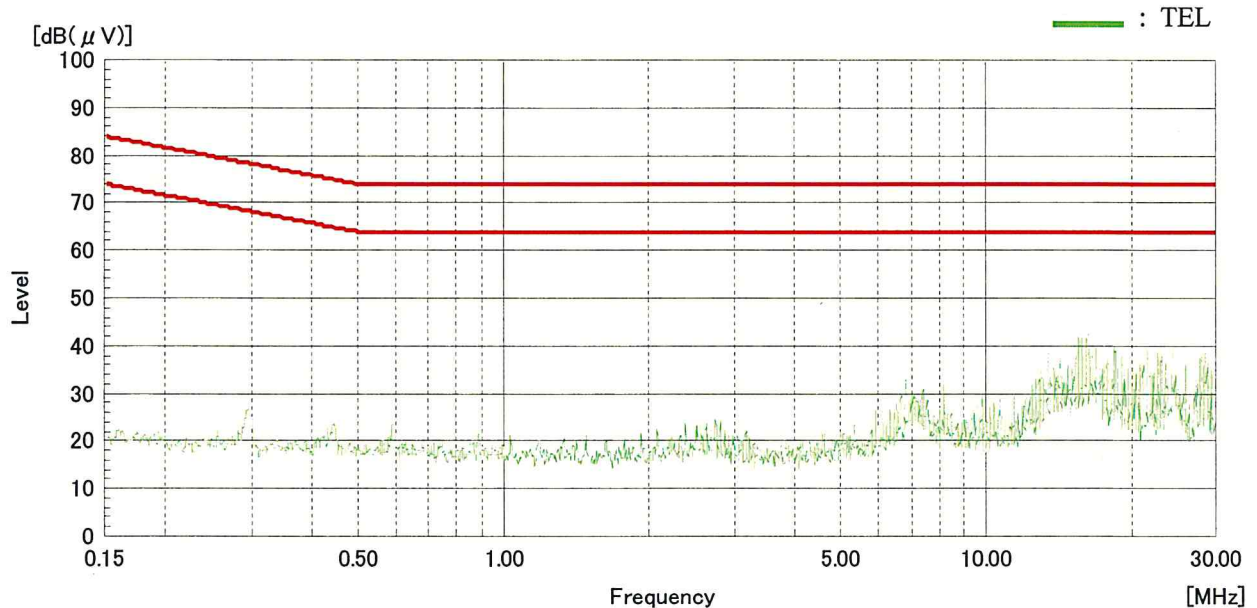
Temperature: 24.5 degree C

Tested condition: Power input 1phase AC230V

Humidity: 56.5 %

Test line: Telephone Cord for FAX System

	Frequency (MHz)	Level		Total Factor (dB)	Result		Limit		Margin	
		QP (dBμV)	AV (dBμV)		QP (dBμV)	AV (dBμV)	QP (dBμV)	AV (dBμV)	QP (dB)	AV (dB)
TEL	0.296	15.1	8.2	9.7	24.8	17.9	78.3	68.3	53.5	50.4
	2.741	11.9	10.5	9.7	21.6	20.2	74.0	64.0	52.4	43.8
	6.817	21.4	14.8	9.7	31.1	24.5	74.0	64.0	42.9	39.5
	16.300	31.5	20.2	9.9	41.4	30.1	74.0	64.0	32.6	33.9
	23.129	28.2	24.1	10.0	38.2	34.1	74.0	64.0	35.8	29.9
	24.576	29.9	29.8	10.0	39.9	39.8	74.0	64.0	34.1	24.2



Tested by

M. Morooka

Masato Morooka, Engineer

雑音電界強度試験結果 (QP: 準尖頭値)

Operating mode: Standby

Date of measurement: October 15, 2013

Test procedure: EN55022:2010 Class B

Temperature: 20.6 degree C

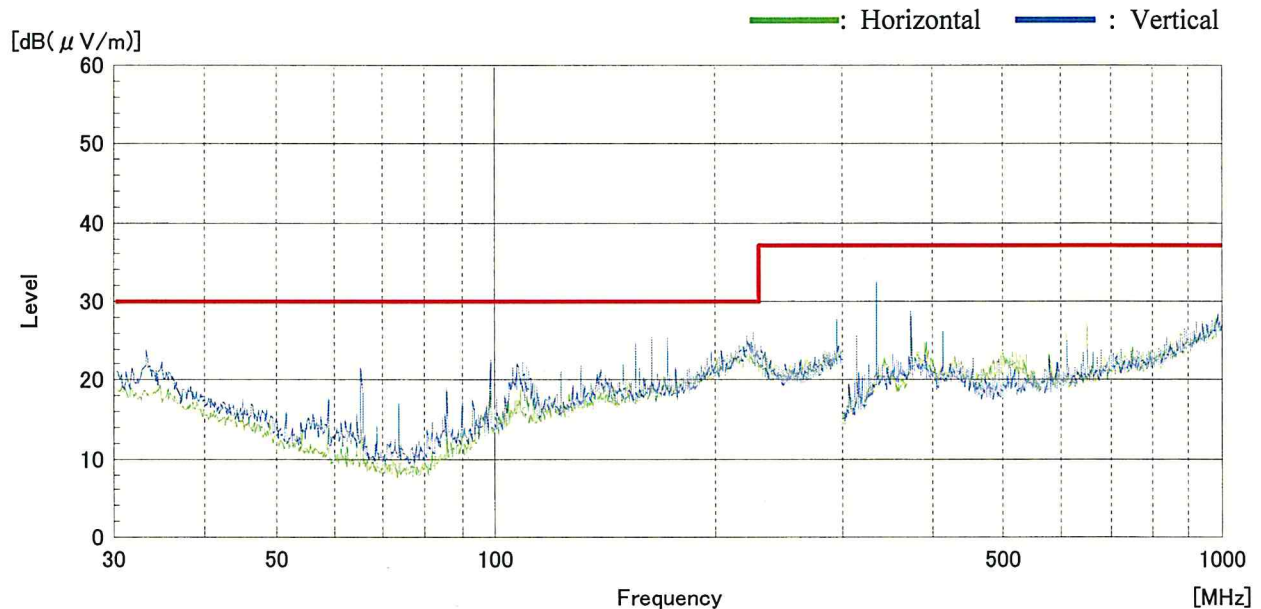
Tested condition: Power input 1phase AC230V

Humidity: 65.1 %

Test distance: 10 m

< 30MHz to 1000MHz >

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		10m Limit (dBμV/m)	Margin	
	Ver. (dBμV)	Hor. (dBμV)				Ver. (dBμV/m)	Hor. (dBμV/m)		Ver. (dB)	Hor. (dB)
33.45	27.5		1.7	-32.7	22.2	18.7		30.0	11.3	
163.84	32.4		3.9	-32.6	21.0	24.7		30.0	5.3	
172.03	32.0	30.8	4.0	-32.6	21.5	24.9	23.7	30.0	5.1	6.3
216.27		24.6	4.6	-32.6	22.7		19.3	30.0		10.7
222.29	28.0		4.7	-32.6	22.7	22.8		30.0	7.2	
334.23	43.9	38.0	5.8	-32.5	15.2	32.4	26.5	37.0	4.6	10.5
649.99		31.1	8.6	-32.6	20.0		27.1	37.0		9.9
953.11		22.9	10.5	-31.6	22.8		24.6	37.0		12.4
984.36	24.1	22.9	10.8	-31.3	23.0	26.6	25.4	37.0	10.4	11.6



Tested by

S. Takahashi

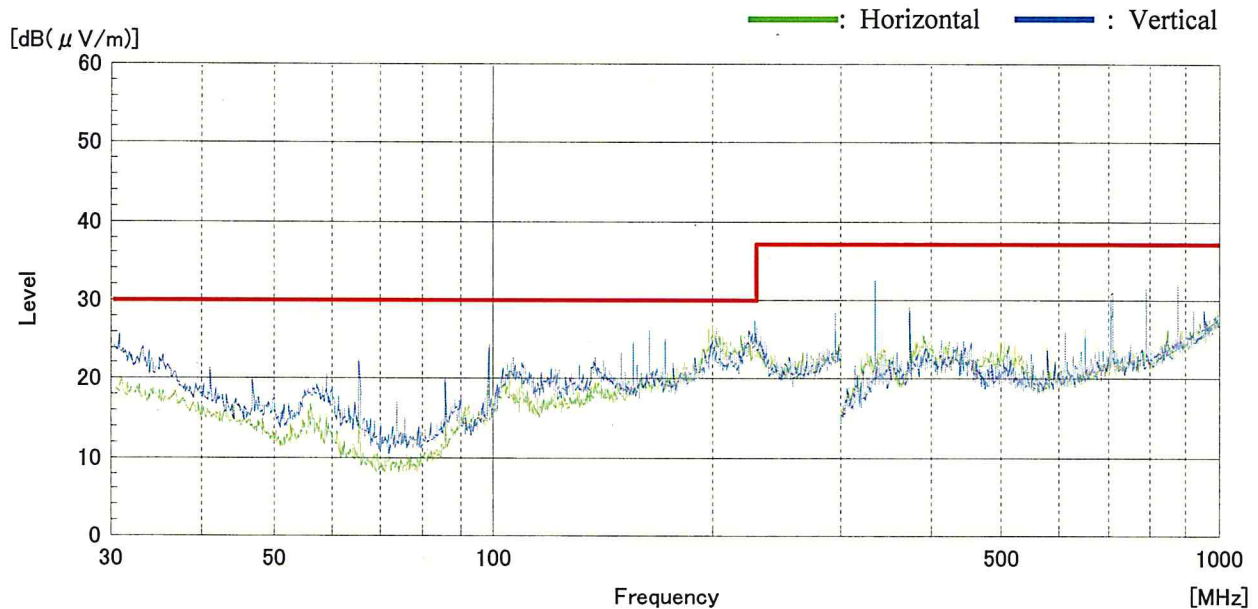
Sho Takahashi, Engineer

雑音電界強度試験結果 (QP: 準尖頭値)

Operating mode: Copy
Test procedure: EN55022:2010 Class B
Tested condition: Power input 1phase AC230V
Test distance: 10 m
< 30MHz to 1000MHz >

Date of measurement: October 15, 2013
Temperature: 20.6 degree C
Humidity: 65.1 %

Frequency (MHz)	Level (dBμV)		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result (dBμV/m)		10m Limit (dBμV/m)	Margin (dB)	
	Ver.	Hor.				Ver.	Hor.		Ver.	Hor.
30.12	28.5		1.6	-32.7	23.4	20.8		30.0	9.2	
163.84	32.5		3.9	-32.6	21.0	24.8		30.0	5.2	
202.61		25.3	4.4	-32.6	22.7		19.8	30.0		10.2
229.36	25.7	25.3	4.7	-32.6	22.8	20.6	20.2	30.0	9.4	9.8
334.23	43.2	40.9	5.8	-32.5	15.2	31.7	29.4	37.0	5.3	7.6
373.55		39.4	6.2	-32.5	16.2		29.3	37.0		7.7
790.93	35.0	29.9	9.4	-32.5	21.0	32.9	27.8	37.0	4.1	9.2
874.16	31.9		10.0	-32.2	21.9	31.6		37.0	5.4	
991.20		18.5	10.8	-31.2	23.1		21.2	37.0		15.8



Tested by

S. Takahashi

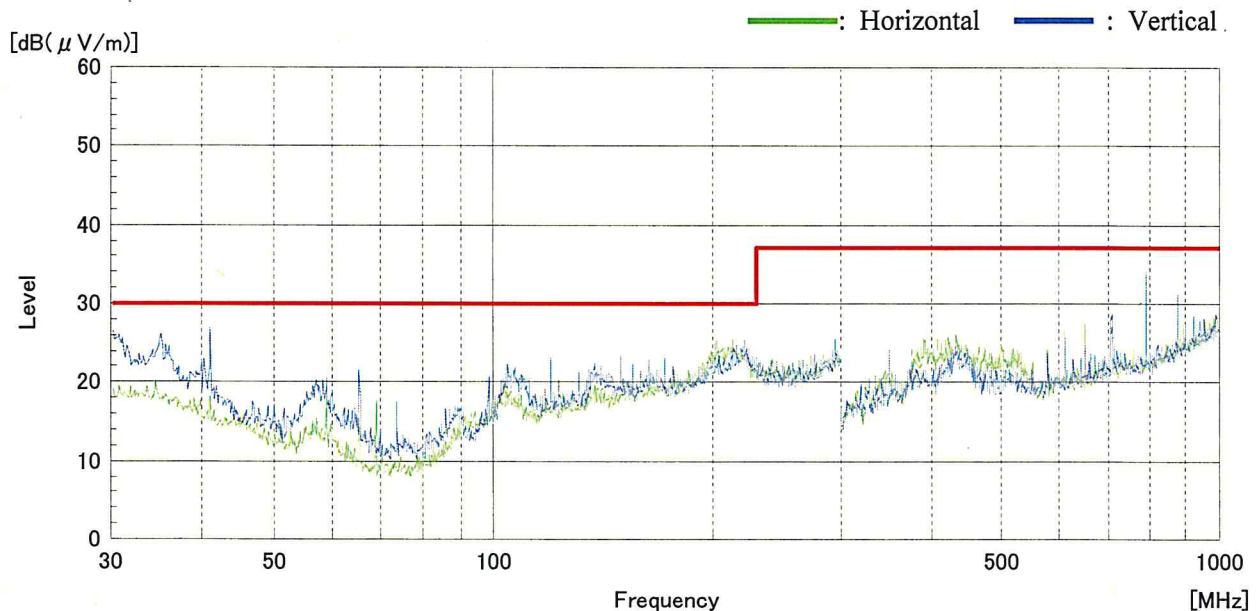
Sho Takahashi, Engineer

雑音電界強度試験結果 (QP: 準尖頭値)

Operating mode: USB Print + FAX TX
Test procedure: EN55022:2010 Class B
Tested condition: Power input 1phase AC230V
Test distance: 10 m
< 30MHz to 1000MHz >

Date of measurement: October 15, 2013
Temperature: 20.6 degree C
Humidity: 65.1 %

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		10m Limit (dBμV/m)	Margin	
	Ver. (dBμV)	Hor. (dBμV)				Ver. (dBμV/m)	Hor. (dBμV/m)		Ver. (dB)	Hor. (dB)
30.00	31.7		1.6	-32.7	23.5	24.1		30.0	5.9	
35.14	29.2		1.8	-32.7	21.7	20.0		30.0	10.0	
40.95	31.9		1.9	-32.7	19.8	20.9		30.0	9.1	
172.03		28.1	4.0	-32.6	21.5		21.0	30.0		9.0
205.18		25.2	4.4	-32.6	22.7		19.7	30.0		10.3
222.44		24.5	4.7	-32.6	22.7		19.3	30.0		10.7
707.66	32.6	33.4	8.9	-32.6	20.6	29.5	30.3	37.0	7.5	6.7
790.91	34.0	33.3	9.4	-32.5	21.0	31.9	31.2	37.0	5.1	5.8
874.18	31.3		10.0	-32.2	21.9	31.0		37.0	6.0	
984.36		23.2	10.8	-31.3	23.0		25.7	37.0		11.3



Tested by

S. Takahashi

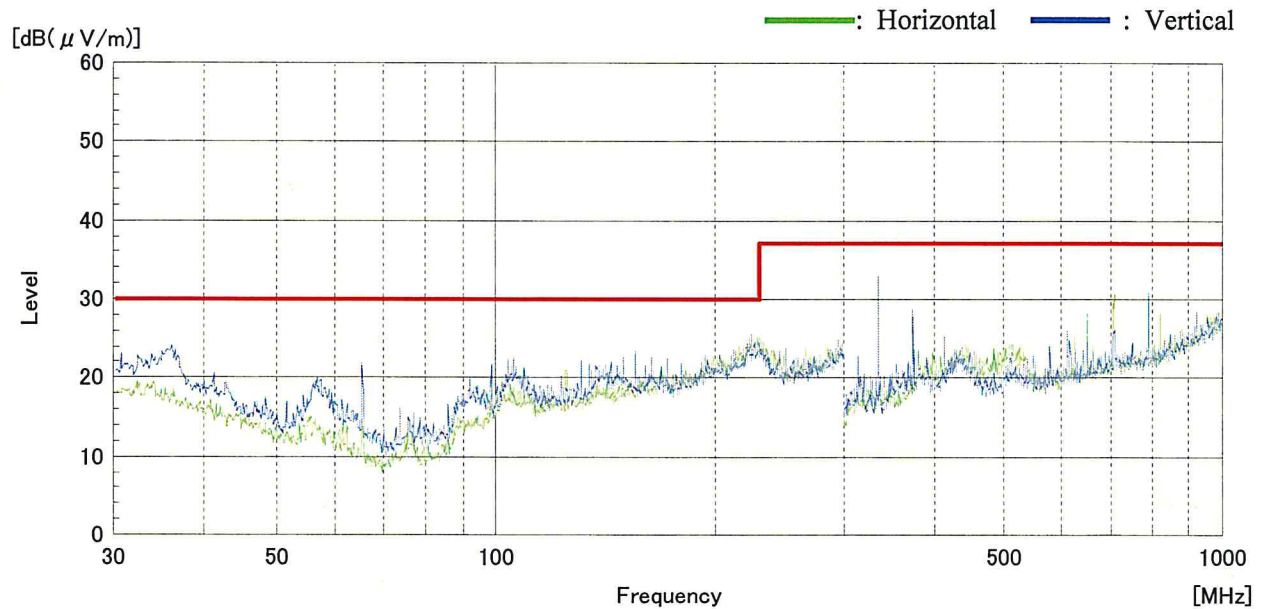
Sho Takahashi, Engineer

雑音電界強度試験結果 (QP: 準尖頭値)

Operating mode: LAN Print + FAX RX
Test procedure: EN55022:2010 Class B
Tested condition: Power input 1phase AC230V
Test distance: 10 m
< 30MHz to 1000MHz >

Date of measurement: October 15, 2013
Temperature: 20.8 degree C
Humidity: 65.7 %

Frequency (MHz)	Level (dBμV)		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result (dBμV/m)		10m Limit (dBμV/m)	Margin (dB)	
	Ver.	Hor.				Ver.	Hor.		Ver.	Hor.
36.08	29.6		1.8	-32.7	21.4	20.1		30.0	9.9	
155.64	29.2	28.5	3.8	-32.6	20.7	21.1	20.4	30.0	8.9	9.6
198.88		23.7	4.4	-32.6	22.6		18.1	30.0		11.9
229.36		25.5	4.7	-32.6	22.8		20.4	30.0		9.6
229.38	28.2		4.7	-32.6	22.8	23.1		30.0	6.9	
334.23	43.9		5.8	-32.5	15.2	32.4		37.0	4.6	
707.68		31.8	8.9	-32.6	20.6		28.7	37.0		8.3
790.91	31.6	33.0	9.4	-32.5	21.0	29.5	30.9	37.0	7.5	6.1
921.86	27.7		10.3	-31.9	22.4	28.5		37.0	8.5	
983.04		20.7	10.8	-31.3	23.0		23.2	37.0		13.8



Tested by

S. Takahashi

Sho Takahashi, Engineer

雑音電界強度試験結果 (Peak: 尖頭値, Average: 平均値)

Operating mode: Standby

Date of measurement: October 24, 2013

Test procedure: EN55022:2010 Class B

Temperature: 20.1 degree C

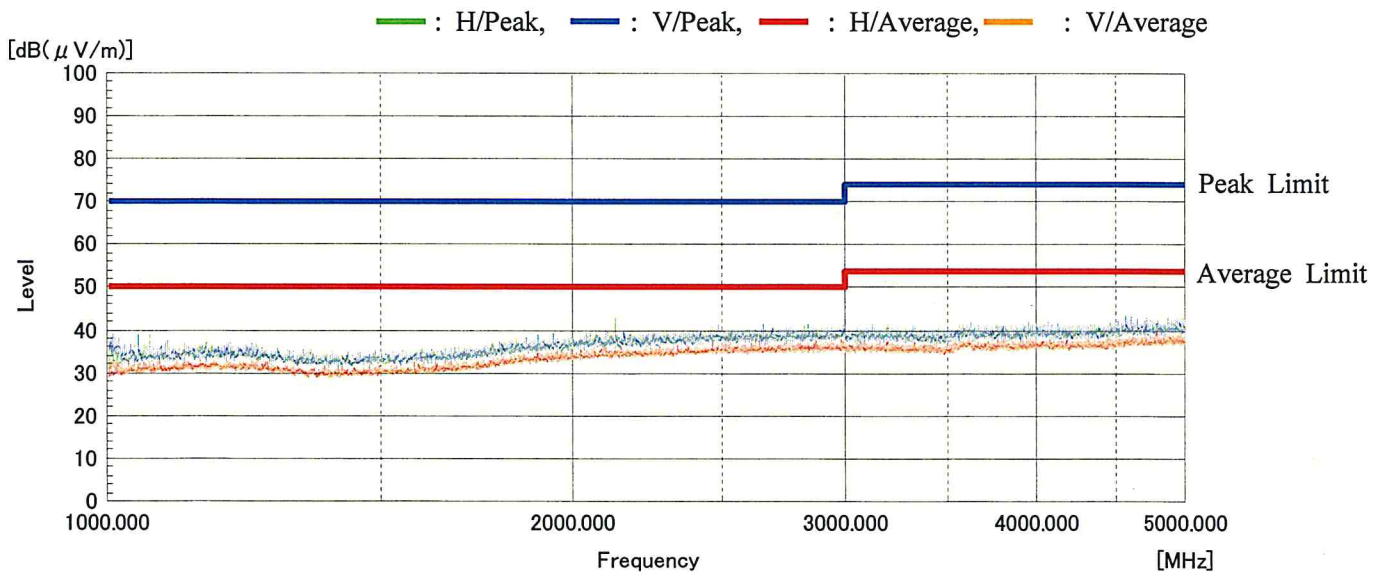
Tested condition: Power input 1phase AC230V

Humidity: 72.4 %

Test distance: 3 m

< 1000MHz to 5000MHz >

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		3m Limit (dBμV/m)	Margin	
	Ver. (dBμV)	Hor.				Ver. (dBμV/m)	Hor.		Ver. (dB)	Hor.
Peak										
1015.60	54.9		1.8	-45.7	28.3	39.3		70.0	30.7	
1032.12		55.6	1.8	-45.7	28.4		40.1	70.0		29.9
1046.84	53.6		1.8	-45.7	28.6	38.3		70.0	31.7	
1065.60	52.0	55.3	1.8	-45.6	28.8	37.0	40.3	70.0	33.0	29.7
1078.08	52.0		1.8	-45.6	28.9	37.1		70.0	32.9	
1250.00		52.4	1.9	-45.2	29.3		38.4	70.0		31.6
2131.23	49.2	52.2	2.6	-42.2	31.7	41.3	44.3	70.0	28.7	25.7
3197.03		50.6	3.3	-43.4	33.0		43.5	74.0		30.5
3599.00	48.7		3.4	-44.1	33.8	41.8		74.0	32.2	
4795.00		51.8	4.2	-44.3	34.1		45.8	74.0		28.2
Average										
1015.60	44.7		1.8	-45.7	28.3	29.1		50.0	20.9	
1032.12		41.7	1.8	-45.7	28.4		26.2	50.0		23.8
1046.84	47.1		1.8	-45.7	28.6	31.8		50.0	18.2	
1065.60	41.9	47.7	1.8	-45.6	28.8	26.9	32.7	50.0	23.1	17.3
1078.08	42.7		1.8	-45.6	28.9	27.8		50.0	22.2	
1250.00		44.8	1.9	-45.2	29.3		30.8	50.0		19.2
2131.23	38.4	42.4	2.6	-42.2	31.7	30.5	34.5	50.0	19.5	15.5
3197.03		37.6	3.3	-43.4	33.0		30.5	54.0		23.5
3599.00	35.2		3.4	-44.1	33.8	28.3		54.0	25.7	
4795.00		37.9	4.2	-44.3	34.1		31.9	54.0		22.1



Tested by

S. Takahashi

Sho Takahashi, Engineer

雑音電界強度試験結果 (Peak: 尖頭値, Average: 平均値)

Operating mode: Copy

Date of measurement: October 24, 2013

Test procedure: EN55022:2010 Class B

Temperature: 20.1 degree C

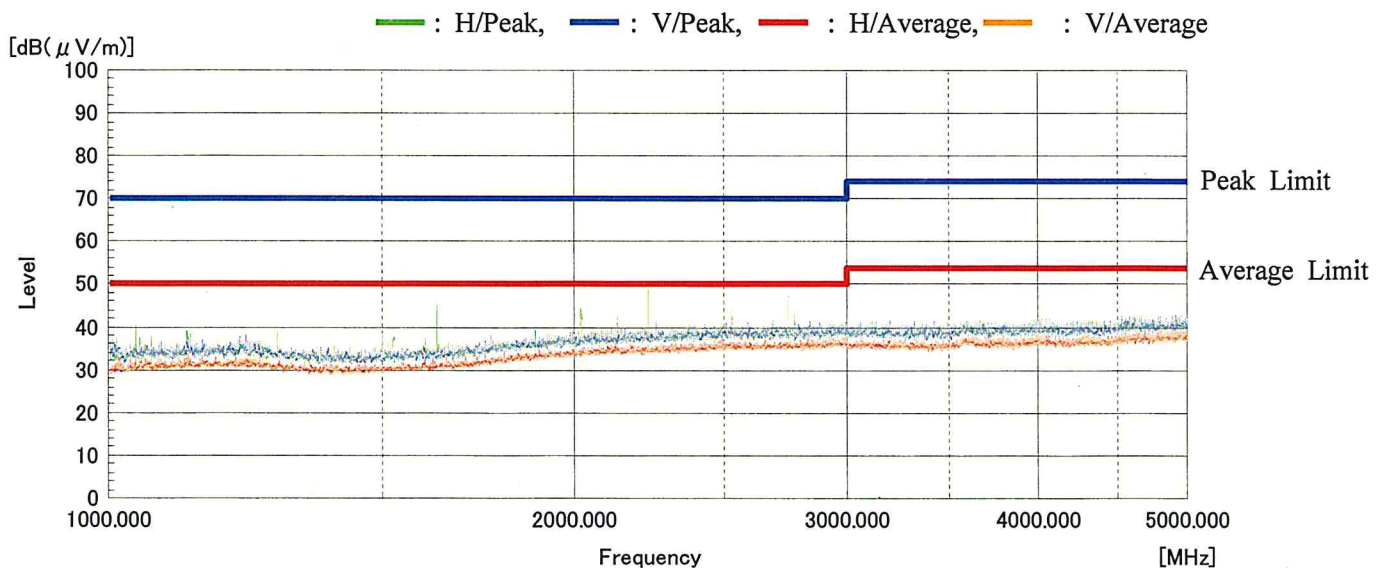
Tested condition: Power input 1phase AC230V

Humidity: 72.4 %

Test distance: 3 m

< 1000MHz to 5000MHz >

Frequency (MHz)	Level		Cable Loss (dB)	Amp. Gain (dB)	Ant. Factor (dB/m)	Result		3m Limit (dBμV/m)	Margin	
	Ver. (dBμV)	Hor.				Ver. (dBμV/m)	Hor.		Ver. (dB)	Hor.
Peak										
1015.59	61.3		1.8	-45.7	28.3	45.7		70.0	24.3	
1046.84	53.9		1.8	-45.7	28.6	38.6		70.0	31.4	
1065.59		57.4	1.8	-45.6	28.8		42.4	70.0		27.6
1078.10	55.0		1.8	-45.6	28.9	40.1		70.0	29.9	
1250.00		53.1	1.9	-45.2	29.3		39.1	70.0		30.9
2000.00		56.5	2.5	-42.6	31.2		47.6	70.0		22.4
2131.22	54.4	58.8	2.6	-42.2	31.7	46.5	50.9	70.0	23.5	19.1
3196.71	49.5	51.6	3.3	-43.4	33.0	42.4	44.5	74.0	31.6	29.5
4795.10		51.0	4.2	-44.3	34.1		45.0	74.0		29.0
4917.96	49.5		4.3	-44.2	34.2	43.8		74.0	30.2	
Average										
1015.59	45.3		1.8	-45.7	28.3	29.7		50.0	20.3	
1046.84	47.8		1.8	-45.7	28.6	32.5		50.0	17.5	
1065.59		47.1	1.8	-45.6	28.8		32.1	50.0		17.9
1078.10	43.6		1.8	-45.6	28.9	28.7		50.0	21.3	
1250.00		44.3	1.9	-45.2	29.3		30.3	50.0		19.7
2000.00		35.7	2.5	-42.6	31.2		26.8	50.0		23.2
2131.22	39.0	42.4	2.6	-42.2	31.7	31.1	34.5	50.0	18.9	15.5
3196.71	37.5	41.0	3.3	-43.4	33.0	30.4	33.9	54.0	23.6	20.1
4795.10		39.4	4.2	-44.3	34.1		33.4	54.0		20.6
4917.96	35.5		4.3	-44.2	34.2	29.8		54.0	24.2	

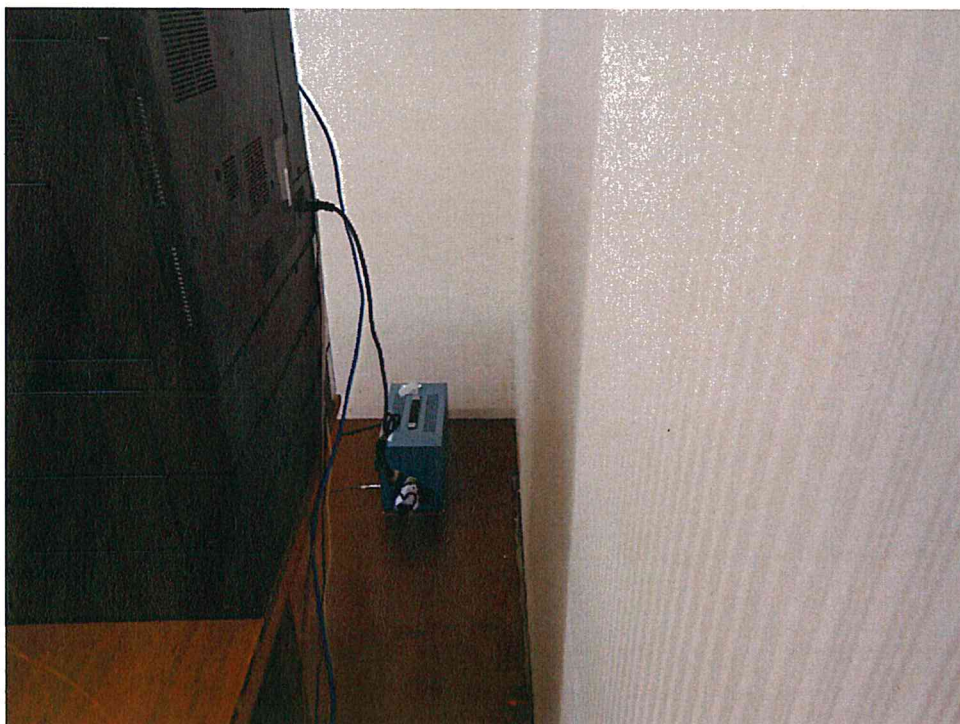


Tested by

S. Takahashi

Sho Takahashi, Engineer

(Conducted Emission)



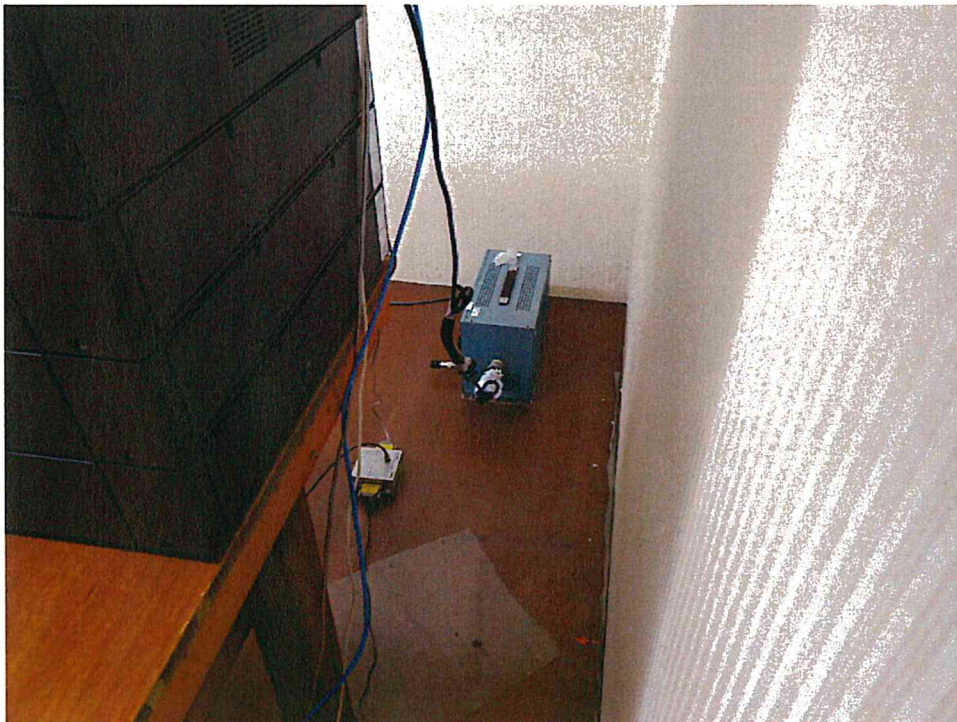
(Conducted Emission for Telecommunication ports)

- LAN -

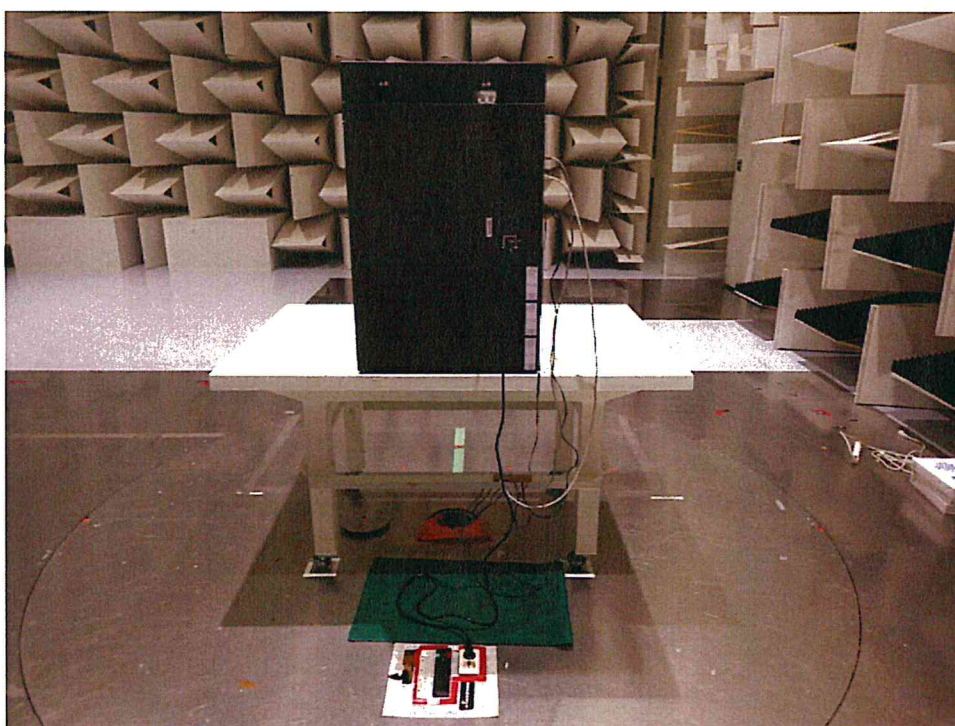
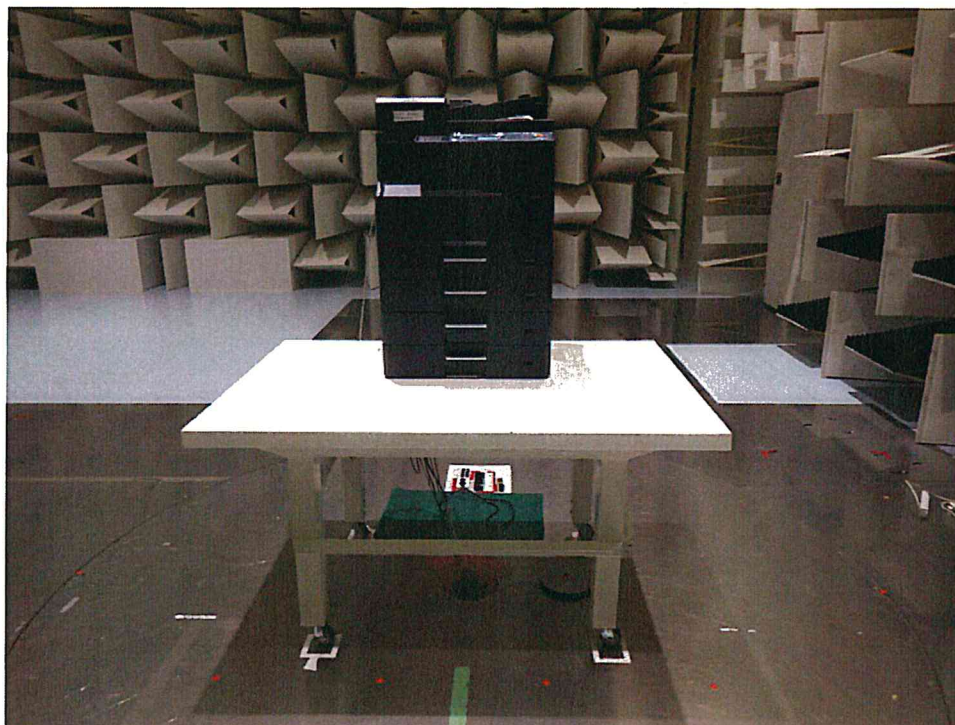


(Conducted Emission for Telecommunication ports)

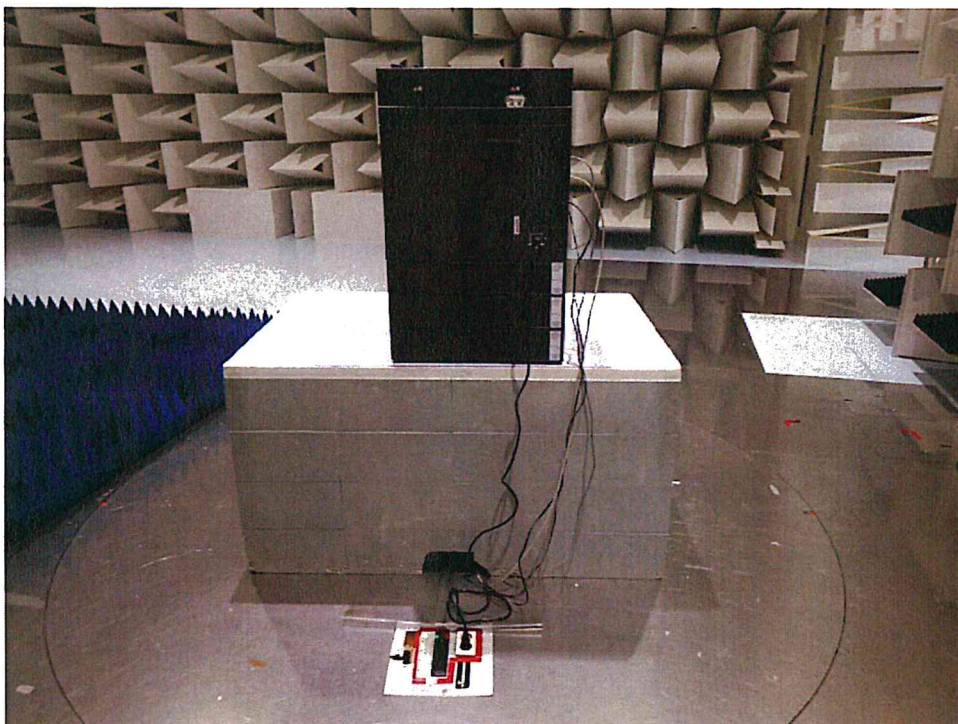
- FAX -



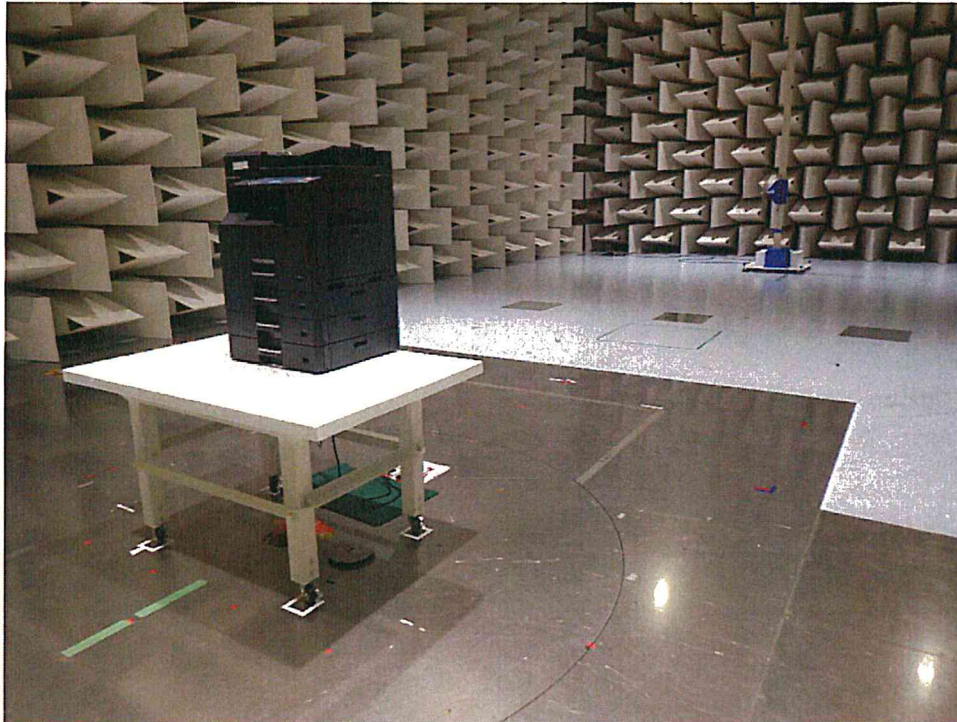
(Radiated Emission)



(Radiated Emission) -GHz-



(Radiated Emission / Worst Case)



EN61000-3-2/2006+A1/2009+A2/2009

Harmonic Current Measurement

<i>Equipment</i>	<i>Model</i>	<i>Serial No.</i>
Multi-Function Printer	TASKalfa 1801 / 2201	ZBH3900042
Paper Feeder	PF-480	LBN3900023
		LBN3900027
		LBN3900029
Document Processor	DP-480	ZBK3500252
Duplex Unit	DU-480	TEST-1
FAX Kit	FAX System (X)	TEST-1
Network Printer Kit	IB-33	TEST-1

Date : 21 October, 2013

Temperature : 24°C

Humidity : 56%

Atom. Pressure : 1014hPa

Testing Place : Kyocera Document Solutions CE Test Room

Power Input : AC230V, 50Hz

Tested by : Takayuki Matsuura



This test was applied as follows.

Odd-harmonics			Even-harmonics		
<i>Order (n)</i>	<i>Limit</i>	<i>Result</i>	<i>Order (n)</i>	<i>Limit</i>	<i>Result</i>
3	2.30 A	Pass			Pass
5	1.14 A				
7	0.77 A		2	1.08 A	
9	0.40 A		4	0.43 A	
11	0.33 A		6	0.30 A	
13	0.21 A		8 ≤ n ≤ 40	0.23 x 8 / n A	
15 ≤ n < 40	0.15 x 8 / n A				

Test equipment used : Analyzing System : WT3000 (Yokogawa Electric Corporation)

TASKalfa 2201 (Average)

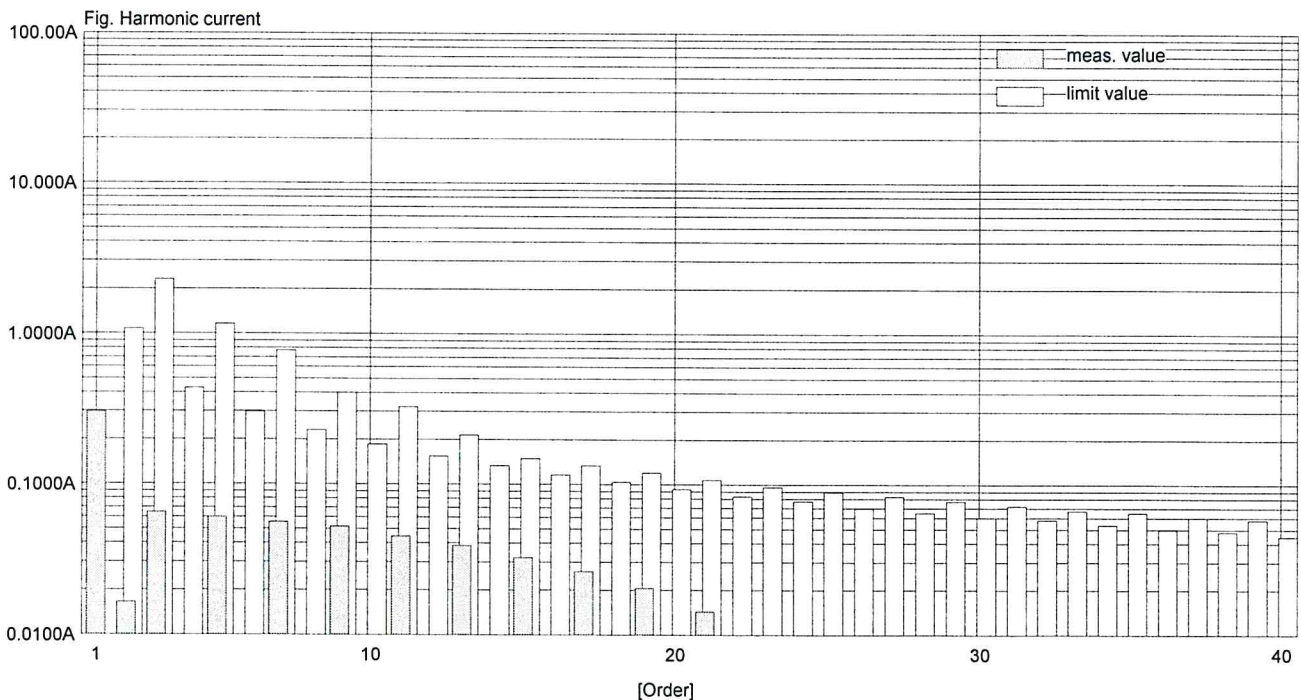
Print Date : Mon Oct 21 16:12:47 2013
 MeasureDate : Mon Oct 21 16:11:01 2013
 Comment : Standby
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 0.3829 A
 Voltage(rms) : 230.42 V
 Frequency : 50.000 Hz
 Power Factor : 0.5418
 POHC Limit : 0.2514 A
 POHC Max : 0.0215 A
 THC : 0.1468 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 524.5078 W
 Sigma PF : 0.5418
 Distortion factor(V) : 0.06 %
 V THDS : 0.06 %
 V THDG : 0.06 %
 Distortion factor(A) : 158.58 %
 A THDS : 158.71 %
 A THDG : 159.06 %
 P THD : 0.04 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	0.3063			2	0.0168	1.0800	98.4
3	0.0655	2.3000	97.2	4	0.0086	0.4300	98.0
5	0.0605	1.1400	94.7	6	0.0047	0.3000	98.4
7	0.0567	0.7700	92.6	8	0.0040	0.2300	98.3
9	0.0515	0.4000	87.1	10	0.0029	0.1840	98.4
11	0.0459	0.3300	86.1	12	0.0027	0.1533	98.2
13	0.0394	0.2100	81.2	14	0.0021	0.1314	98.4
15	0.0331	0.1500	78.0	16	0.0019	0.1150	98.4
17	0.0263	0.1324	80.1	18	0.0016	0.1022	98.5
19	0.0202	0.1184	82.9	20	0.0013	0.0920	98.6
21	0.0142	0.1071	86.8	22	0.0012	0.0836	98.5
23	0.0092	0.0978	90.6	24	0.0010	0.0767	98.7
25	0.0047	0.0900	94.8	26	0.0010	0.0708	98.6
27	0.0017	0.0833	97.9	28	0.0009	0.0657	98.7
29	0.0022	0.0776	97.1	30	0.0008	0.0613	98.6
31	0.0037	0.0726	94.9	32	0.0007	0.0575	98.8
33	0.0048	0.0682	93.0	34	0.0006	0.0541	98.8
35	0.0050	0.0643	92.2	36	0.0006	0.0511	98.8
37	0.0048	0.0608	92.1	38	0.0005	0.0484	98.9
39	0.0041	0.0577	92.9	40	0.0005	0.0460	98.8



TASKalfa 2201 (Maximum)

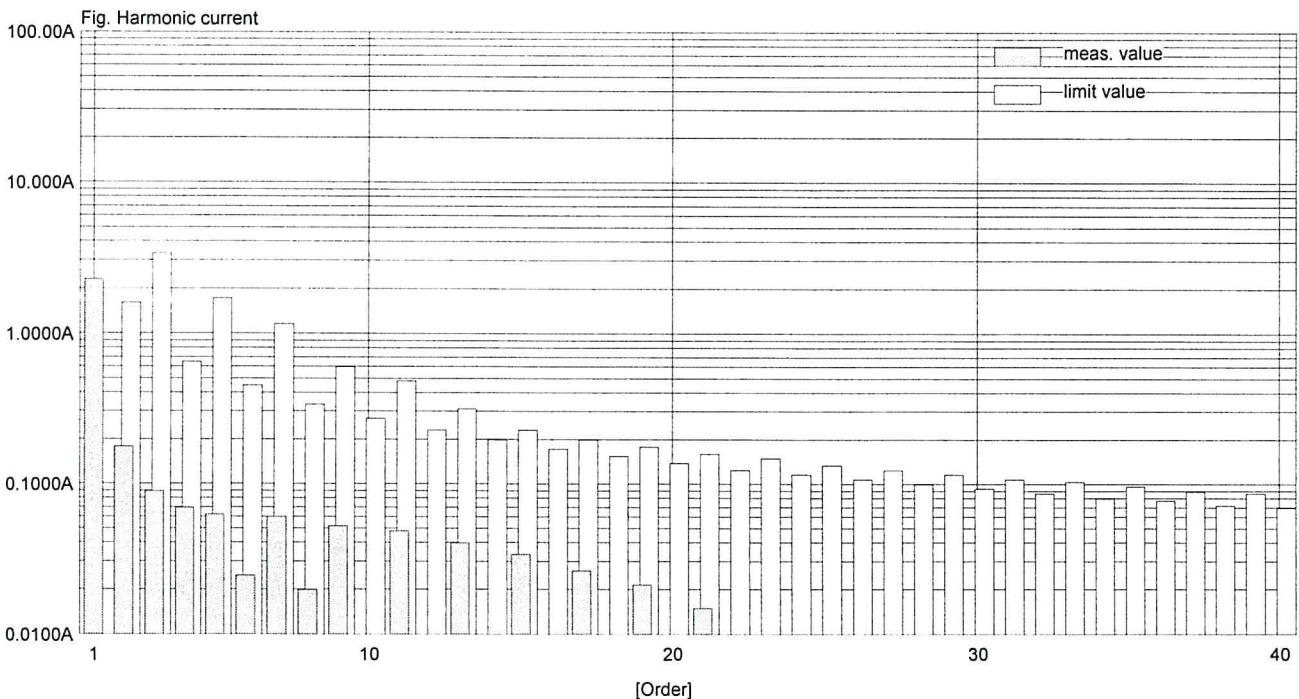
Print Date : Mon Oct 21 16:12:48 2013
 MeasureDate : Mon Oct 21 16:11:01 2013
 Comment : Standby
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 2.3169 A
 Voltage(rms) : 230.44 V
 Frequency : 50.009 Hz
 Power Factor : 0.9841
 Beyond Limit Time : 14.9999 s
 Beyond Total Time : 0.0000 s
 THC : 0.2479 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 524.5078 W
 Sigma PF : 0.9841
 Distortion factor(V) : 0.07 %
 V THDS : 0.07 %
 V THDG : 0.08 %
 Distortion factor(A) : 172.60 %
 A THDS : 172.61 %
 A THDG : 172.68 %
 P THD : 0.04 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	2.2824			2	0.1750	1.6200	89.2
3	0.0908	3.4500	97.4	4	0.0710	0.6450	89.0
5	0.0637	1.7100	96.3	6	0.0245	0.4500	94.6
7	0.0602	1.1550	94.8	8	0.0196	0.3450	94.3
9	0.0524	0.6000	91.3	10	0.0089	0.2760	96.8
11	0.0479	0.4950	90.3	12	0.0099	0.2300	95.7
13	0.0400	0.3150	87.3	14	0.0056	0.1971	97.2
15	0.0343	0.2250	84.8	16	0.0056	0.1725	96.8
17	0.0267	0.1985	86.6	18	0.0044	0.1533	97.2
19	0.0210	0.1776	88.2	20	0.0033	0.1380	97.6
21	0.0147	0.1607	90.9	22	0.0036	0.1255	97.1
23	0.0100	0.1467	93.2	24	0.0025	0.1150	97.8
25	0.0054	0.1350	96.0	26	0.0030	0.1062	97.2
27	0.0027	0.1250	97.8	28	0.0020	0.0986	97.9
29	0.0034	0.1164	97.1	30	0.0024	0.0920	97.4
31	0.0041	0.1089	96.3	32	0.0017	0.0862	98.0
33	0.0057	0.1023	94.4	34	0.0018	0.0812	97.8
35	0.0052	0.0964	94.6	36	0.0015	0.0767	98.1
37	0.0054	0.0912	94.1	38	0.0014	0.0726	98.1
39	0.0044	0.0865	95.0	40	0.0014	0.0690	98.0



TASKalfa 2201 (Average)

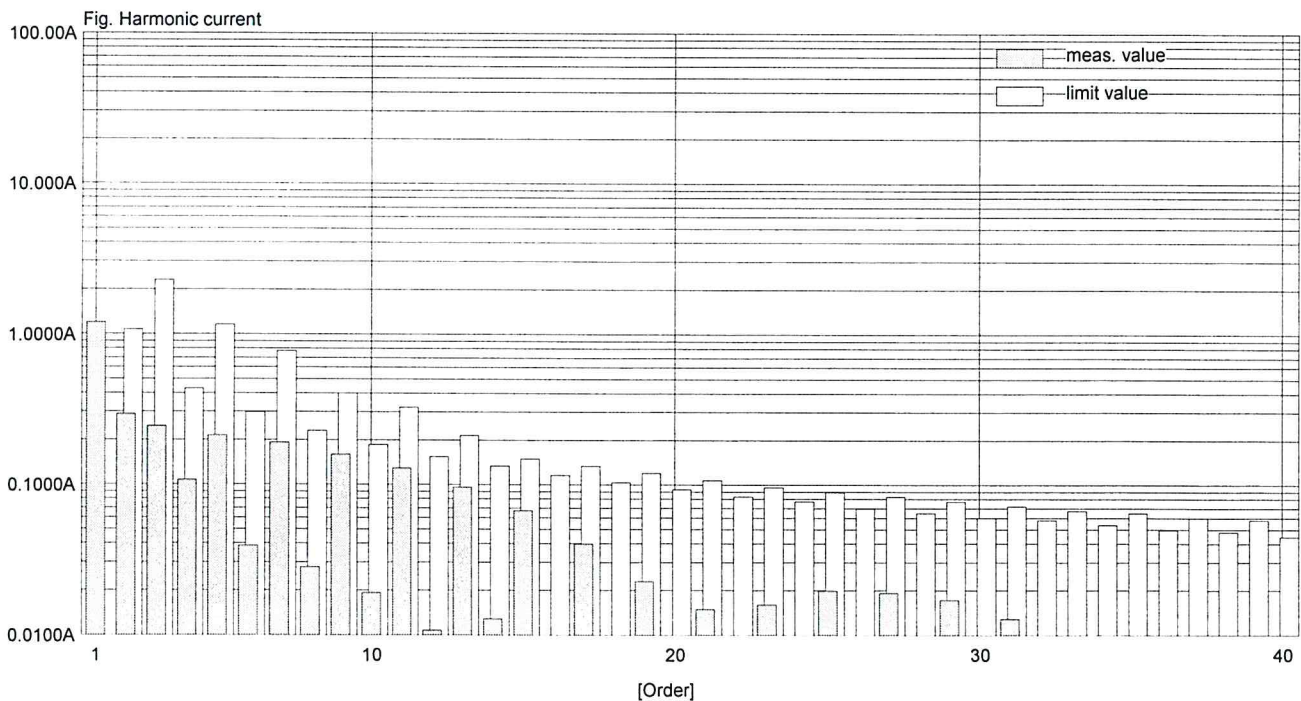
Print Date : Mon Oct 21 16:22:01 2013
 MeasureDate : Mon Oct 21 16:20:34 2013
 Comment : Duplex Copy (A4 Long)
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 1.3330 A
 Voltage(rms) : 230.35 V
 Frequency : 50.000 Hz
 Power Factor : 0.8690
 POHC Limit : 0.2514 A
 POHC Max : 0.0467 A
 THC : 0.5543 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 478.9625 W
 Sigma PF : 0.8690
 Distortion factor(V) : 0.06 %
 V THDS : 0.06 %
 V THDG : 0.07 %
 Distortion factor(A) : 65.86 %
 A THDS : 66.32 %
 A THDG : 71.42 %
 P THD : 0.02 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	1.1808			2	0.2908	1.0800	73.1
3	0.2474	2.3000	89.2	4	0.1069	0.4300	75.1
5	0.2116	1.1400	81.4	6	0.0393	0.3000	86.9
7	0.1878	0.7700	75.6	8	0.0281	0.2300	87.8
9	0.1581	0.4000	60.5	10	0.0188	0.1840	89.8
11	0.1276	0.3300	61.3	12	0.0107	0.1533	93.0
13	0.0955	0.2100	54.5	14	0.0130	0.1314	90.1
15	0.0668	0.1500	55.5	16	0.0046	0.1150	96.0
17	0.0409	0.1324	69.1	18	0.0090	0.1022	91.2
19	0.0228	0.1184	80.8	20	0.0054	0.0920	94.2
21	0.0146	0.1071	86.3	22	0.0056	0.0836	93.4
23	0.0162	0.0978	83.5	24	0.0057	0.0767	92.6
25	0.0195	0.0900	78.4	26	0.0029	0.0708	95.9
27	0.0193	0.0833	76.9	28	0.0048	0.0657	92.7
29	0.0171	0.0776	78.0	30	0.0025	0.0613	95.9
31	0.0127	0.0726	82.5	32	0.0034	0.0575	94.1
33	0.0083	0.0682	87.8	34	0.0032	0.0541	94.0
35	0.0051	0.0643	92.0	36	0.0022	0.0511	95.7
37	0.0045	0.0608	92.6	38	0.0032	0.0484	93.4
39	0.0058	0.0577	89.9	40	0.0017	0.0460	96.3



TASKalfa 2201 (Maximum)

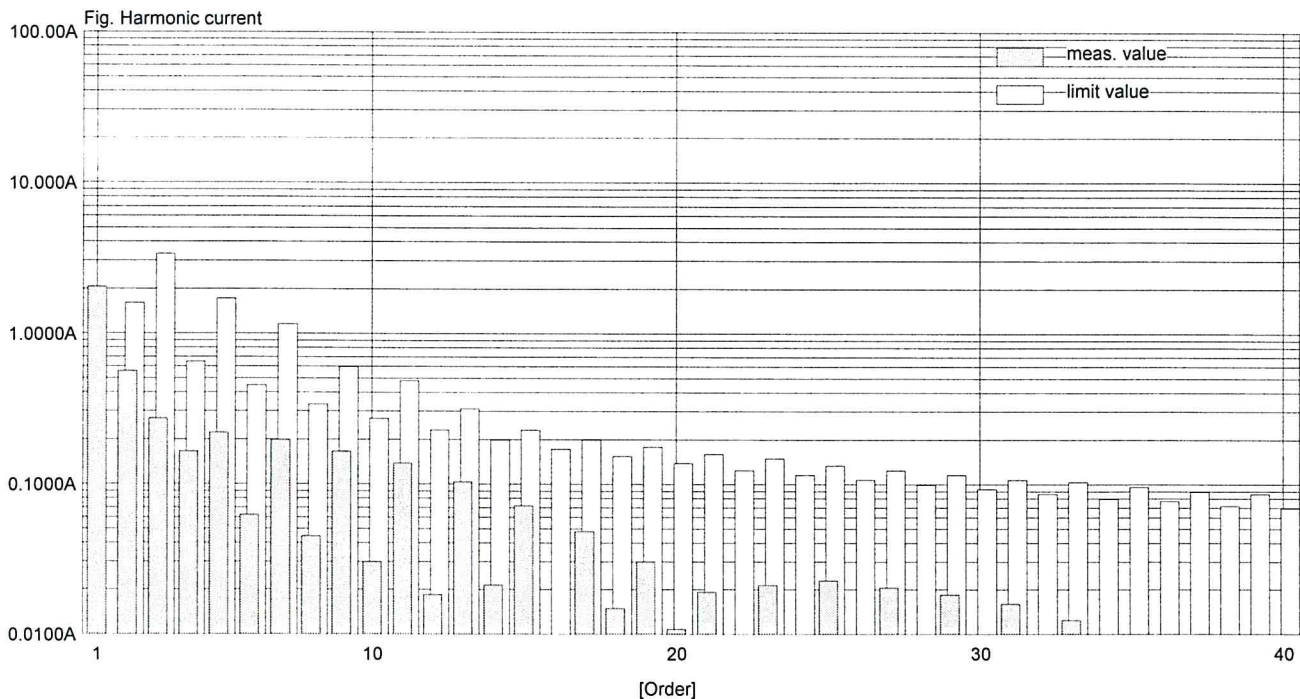
Print Date : Mon Oct 21 16:22:01 2013
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 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 2.1814 A
 Voltage(rms) : 230.41 V
 Frequency : 50.010 Hz
 Power Factor : 0.9535
 Beyond Limit Time : 14.9999 s
 Beyond Total Time : 0.0000 s
 THC : 0.7407 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 478.9625 W
 Sigma PF : 0.9535
 Distortion factor(V) : 0.10 %
 V THDS : 0.10 %
 V THDG : 0.10 %
 Distortion factor(A) : 185.58 %
 A THDS : 185.58 %
 A THDG : 185.59 %
 P THD : 0.06 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	2.0832			2	0.5700	1.6200	64.8
3	0.2732	3.4500	92.1	4	0.1643	0.6450	74.5
5	0.2236	1.7100	86.9	6	0.0618	0.4500	86.3
7	0.1991	1.1550	82.8	8	0.0448	0.3450	87.0
9	0.1679	0.6000	72.0	10	0.0308	0.2760	88.8
11	0.1359	0.4950	72.5	12	0.0181	0.2300	92.1
13	0.1021	0.3150	67.6	14	0.0214	0.1971	89.2
15	0.0721	0.2250	68.0	16	0.0101	0.1725	94.2
17	0.0483	0.1985	75.6	18	0.0147	0.1533	90.4
19	0.0304	0.1776	82.9	20	0.0107	0.1380	92.3
21	0.0192	0.1607	88.1	22	0.0091	0.1255	92.7
23	0.0216	0.1467	85.3	24	0.0101	0.1150	91.2
25	0.0225	0.1350	83.3	26	0.0060	0.1062	94.4
27	0.0208	0.1250	83.4	28	0.0081	0.0986	91.7
29	0.0187	0.1164	83.9	30	0.0062	0.0920	93.3
31	0.0157	0.1089	85.6	32	0.0059	0.0862	93.1
33	0.0123	0.1023	88.0	34	0.0063	0.0812	92.2
35	0.0082	0.0964	91.5	36	0.0045	0.0767	94.2
37	0.0089	0.0912	90.3	38	0.0056	0.0726	92.3
39	0.0085	0.0865	90.1	40	0.0042	0.0690	93.9



TASKalfa 2201 (Average)

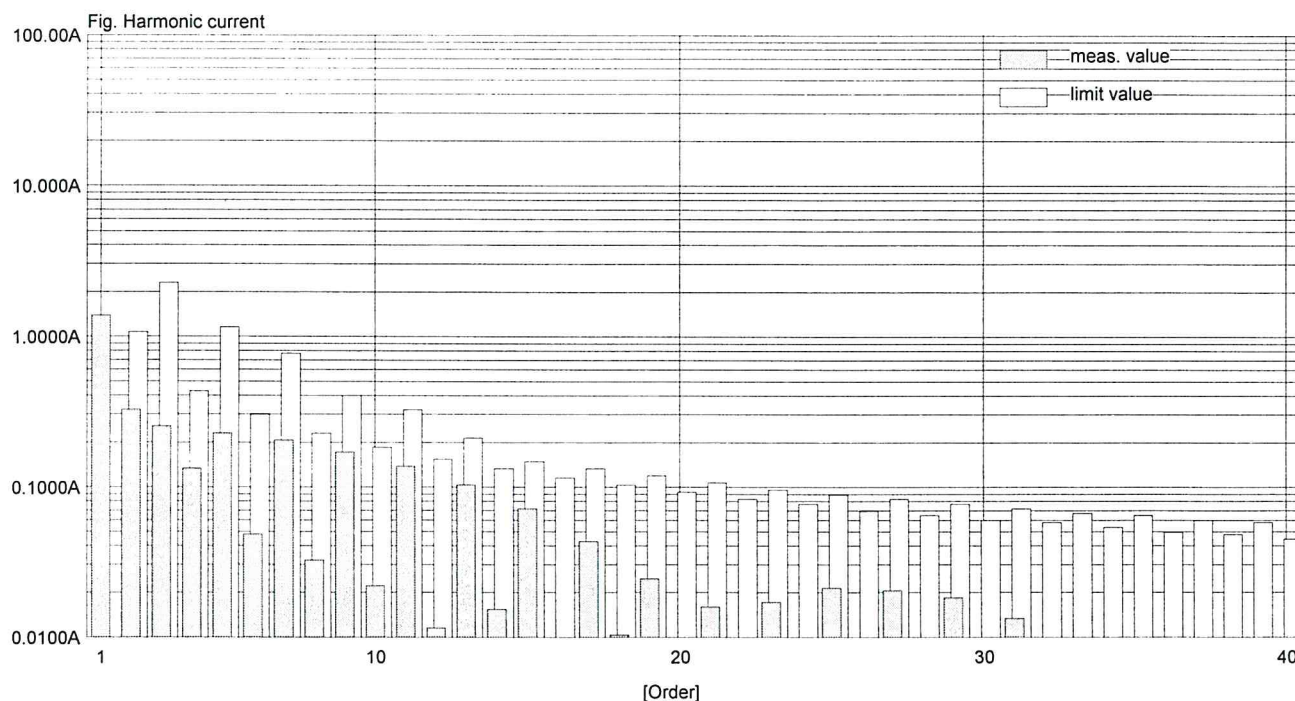
Print Date : Mon Oct 21 16:26:28 2013
 MeasureDate : Mon Oct 21 16:26:03 2013
 Comment : Copy (A4 Long)
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 1.4840 A
 Voltage(rms) : 230.33 V
 Frequency : 50.001 Hz
 Power Factor : 0.9135
 POHC Limit : 0.2514 A
 POHC Max : 0.0511 A
 THC : 0.5945 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 406.8858 W
 Sigma PF : 0.9135
 Distortion factor(V) : 0.06 %
 V THDS : 0.06 %
 V THDG : 0.06 %
 Distortion factor(A) : 37.98 %
 A THDS : 38.07 %
 A THDG : 44.20 %
 P THD : 0.01 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	1.3581			2	0.3249	1.0800	69.9
3	0.2544	2.3000	88.9	4	0.1319	0.4300	69.3
5	0.2267	1.1400	80.1	6	0.0483	0.3000	83.9
7	0.2024	0.7700	73.7	8	0.0325	0.2300	85.9
9	0.1703	0.4000	57.4	10	0.0225	0.1840	87.8
11	0.1377	0.3300	58.3	12	0.0114	0.1533	92.6
13	0.1030	0.2100	51.0	14	0.0152	0.1314	88.4
15	0.0721	0.1500	52.0	16	0.0045	0.1150	96.1
17	0.0443	0.1324	66.6	18	0.0103	0.1022	89.9
19	0.0244	0.1184	79.4	20	0.0059	0.0920	93.6
21	0.0159	0.1071	85.1	22	0.0059	0.0836	93.0
23	0.0174	0.0978	82.2	24	0.0063	0.0767	91.7
25	0.0210	0.0900	76.6	26	0.0027	0.0708	96.2
27	0.0207	0.0833	75.1	28	0.0054	0.0657	91.9
29	0.0181	0.0776	76.7	30	0.0025	0.0613	95.9
31	0.0134	0.0726	81.5	32	0.0036	0.0575	93.7
33	0.0082	0.0682	87.9	34	0.0034	0.0541	93.8
35	0.0049	0.0643	92.3	36	0.0020	0.0511	96.1
37	0.0044	0.0608	92.7	38	0.0034	0.0484	93.0
39	0.0060	0.0577	89.6	40	0.0015	0.0460	96.7



TASKalfa 2201 (Maximum)

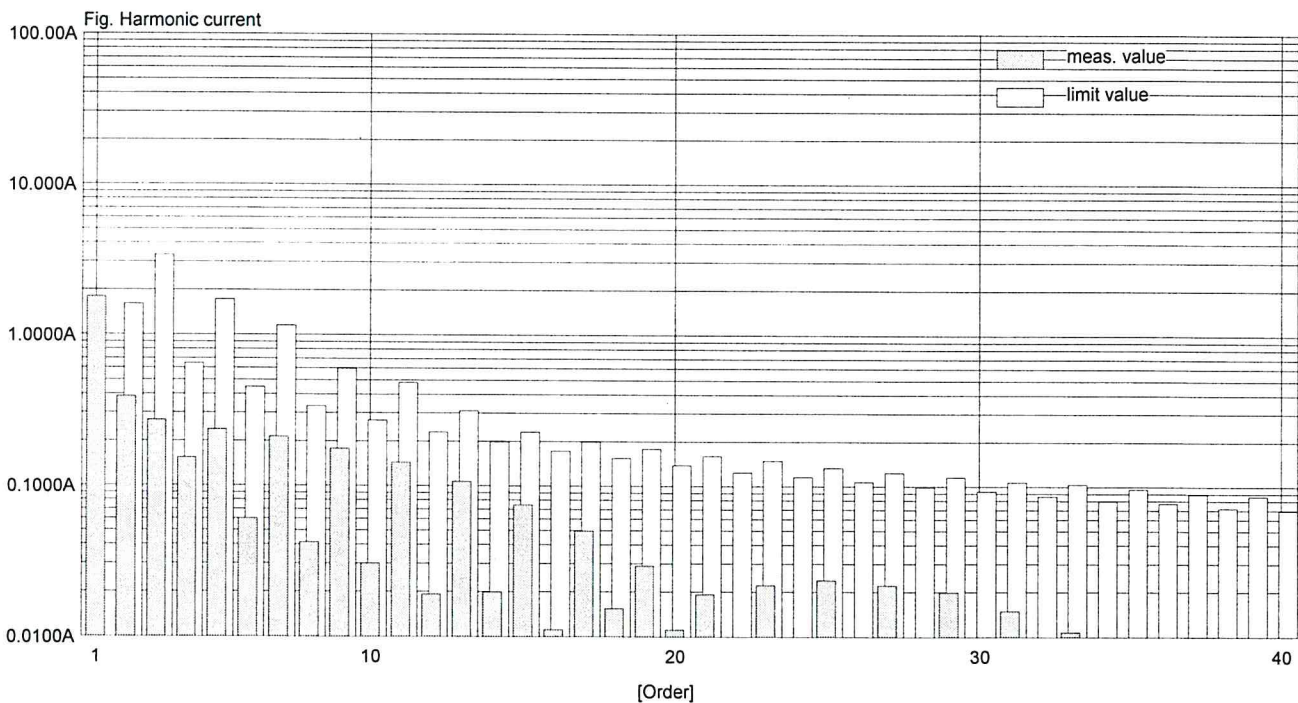
Print Date : Mon Oct 21 16:26:28 2013
 MeasureDate : Mon Oct 21 16:26:03 2013
 Comment : Copy (A4 Long)
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 1.8775 A
 Voltage(rms) : 230.35 V
 Frequency : 50.011 Hz
 Power Factor : 0.9445
 Beyond Limit Time : 14.9996 s
 Beyond Total Time : 0.0000 s
 THC : 0.6438 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 406.8858 W
 Sigma PF : 0.9445
 Distortion factor(V) : 0.07 %
 V THDS : 0.07 %
 V THDG : 0.07 %
 Distortion factor(A) : 54.62 %
 A THDS : 54.62 %
 A THDG : 56.63 %
 P THD : 0.01 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	1.7691			2	0.3939	1.6200	75.7
3	0.2777	3.4500	92.0	4	0.1514	0.6450	76.5
5	0.2403	1.7100	85.9	6	0.0611	0.4500	86.4
7	0.2132	1.1550	81.5	8	0.0417	0.3450	87.9
9	0.1793	0.6000	70.1	10	0.0309	0.2760	88.8
11	0.1447	0.4950	70.8	12	0.0192	0.2300	91.7
13	0.1085	0.3150	65.6	14	0.0199	0.1971	89.9
15	0.0762	0.2250	66.2	16	0.0112	0.1725	93.5
17	0.0496	0.1985	75.0	18	0.0152	0.1533	90.1
19	0.0295	0.1776	83.4	20	0.0112	0.1380	91.9
21	0.0192	0.1607	88.0	22	0.0102	0.1255	91.9
23	0.0223	0.1467	84.8	24	0.0096	0.1150	91.7
25	0.0237	0.1350	82.4	26	0.0067	0.1062	93.7
27	0.0224	0.1250	82.1	28	0.0087	0.0986	91.1
29	0.0195	0.1164	83.2	30	0.0063	0.0920	93.1
31	0.0148	0.1089	86.4	32	0.0066	0.0862	92.3
33	0.0109	0.1023	89.4	34	0.0060	0.0812	92.7
35	0.0073	0.0964	92.4	36	0.0049	0.0767	93.6
37	0.0084	0.0912	90.8	38	0.0060	0.0726	91.7
39	0.0089	0.0865	89.7	40	0.0045	0.0690	93.5



TASKalfa 2201 (Average)

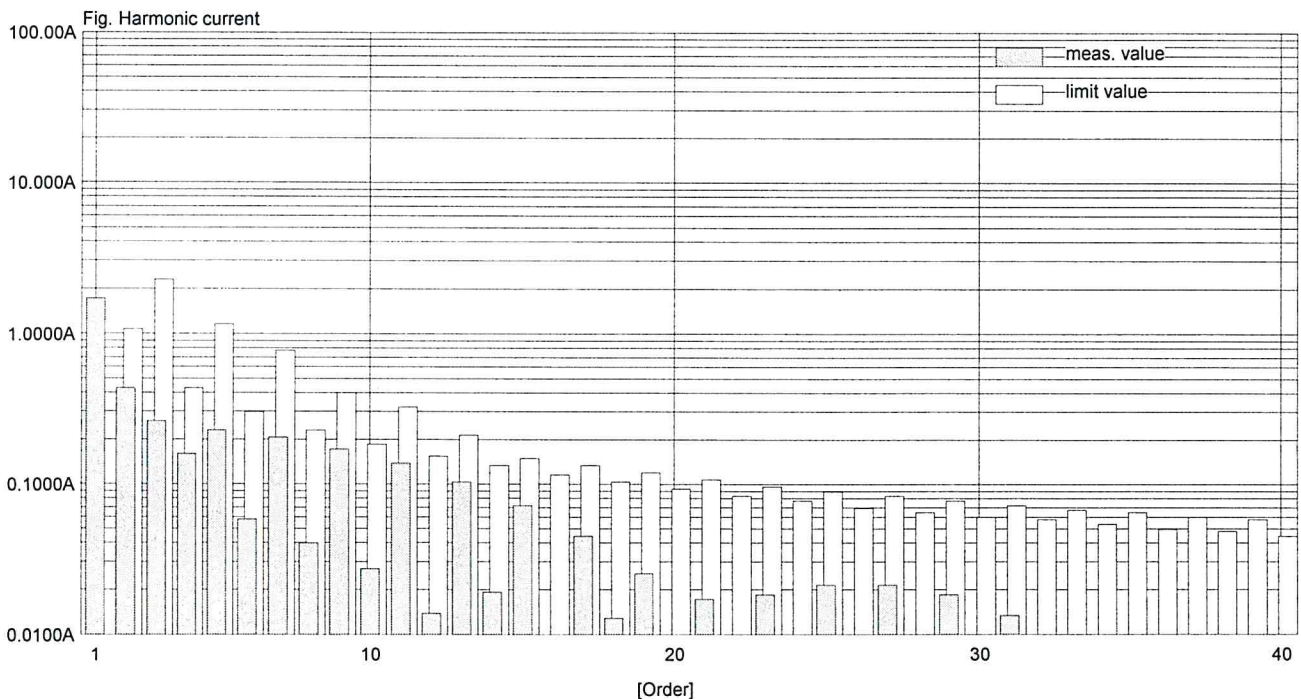
Print Date : Mon Oct 21 16:32:43 2013
 MeasureDate : Mon Oct 21 16:32:05 2013
 Comment : Copy (A4 Short)
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 1.8723 A
 Voltage(rms) : 230.30 V
 Frequency : 50.000 Hz
 Power Factor : 0.9271
 POHC Limit : 0.2514 A
 POHC Max : 0.0557 A
 THC : 0.6760 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 481.0330 W
 Sigma PF : 0.9271
 Distortion factor(V) : 0.06 %
 V THDS : 0.06 %
 V THDG : 0.06 %
 Distortion factor(A) : 33.89 %
 A THDS : 36.04 %
 A THDG : 41.23 %
 P THD : 0.00 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	1.7421			2	0.4327	1.0800	59.9
3	0.2606	2.3000	88.7	4	0.1572	0.4300	63.4
5	0.2316	1.1400	79.7	6	0.0583	0.3000	80.6
7	0.2071	0.7700	73.1	8	0.0400	0.2300	82.6
9	0.1735	0.4000	56.6	10	0.0278	0.1840	84.9
11	0.1406	0.3300	57.4	12	0.0139	0.1533	90.9
13	0.1046	0.2100	50.2	14	0.0193	0.1314	85.3
15	0.0735	0.1500	51.0	16	0.0056	0.1150	95.1
17	0.0452	0.1324	65.9	18	0.0130	0.1022	87.3
19	0.0253	0.1184	78.7	20	0.0076	0.0920	91.7
21	0.0173	0.1071	83.8	22	0.0073	0.0836	91.3
23	0.0182	0.0978	81.4	24	0.0083	0.0767	89.2
25	0.0217	0.0900	75.9	26	0.0033	0.0708	95.3
27	0.0210	0.0833	74.8	28	0.0068	0.0657	89.7
29	0.0183	0.0776	76.5	30	0.0035	0.0613	94.4
31	0.0135	0.0726	81.3	32	0.0045	0.0575	92.2
33	0.0085	0.0682	87.6	34	0.0045	0.0541	91.7
35	0.0055	0.0643	91.4	36	0.0025	0.0511	95.1
37	0.0051	0.0608	91.6	38	0.0043	0.0484	91.1
39	0.0063	0.0577	89.1	40	0.0022	0.0460	95.2



TASKalfa 2201 (Maximum)

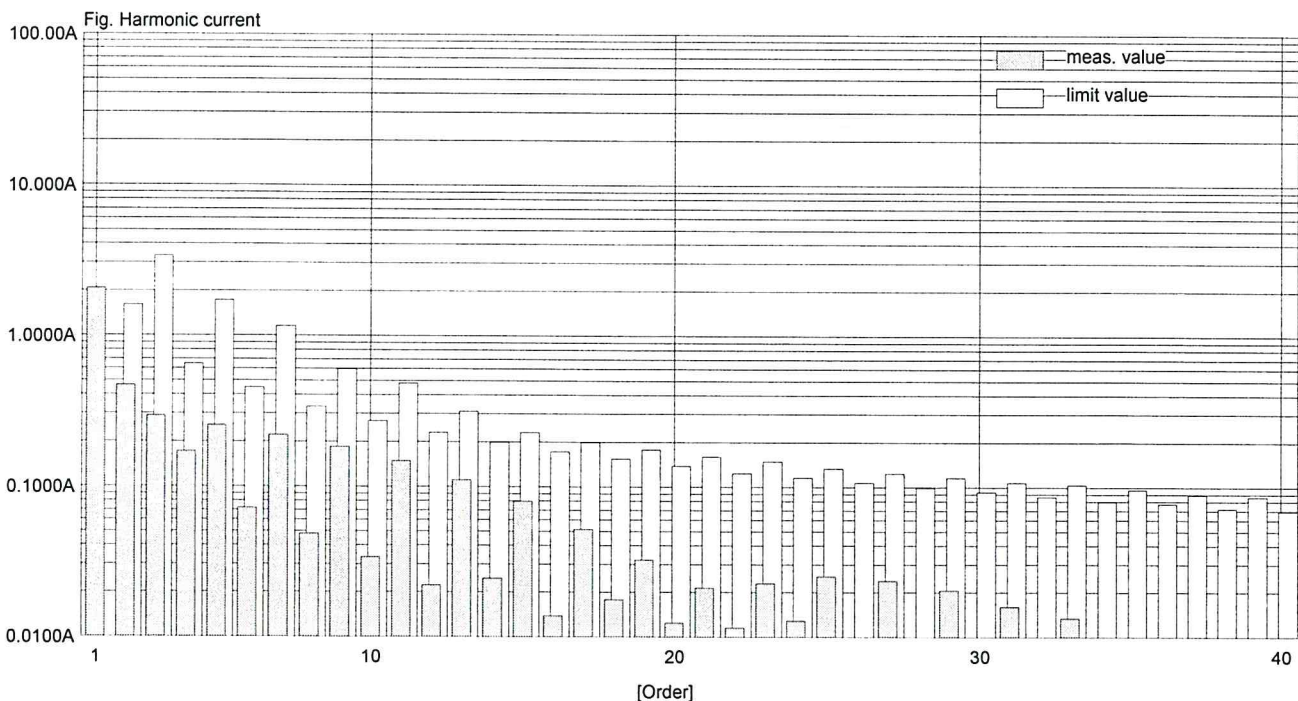
Print Date : Mon Oct 21 16:32:43 2013
 MeasureDate : Mon Oct 21 16:32:05 2013
 Comment : Copy (A4 Short)
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 2.2014 A
 Voltage(rms) : 230.41 V
 Frequency : 50.010 Hz
 Power Factor : 0.9489
 Beyond Limit Time : 14.9999 s
 Beyond Total Time : 0.0000 s
 THC : 0.7176 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 481.0330 W
 Sigma PF : 0.9489
 Distortion factor(V) : 0.08 %
 V THDS : 0.08 %
 V THDG : 0.08 %
 Distortion factor(A) : 181.71 %
 A THDS : 181.93 %
 A THDG : 182.10 %
 P THD : 0.06 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	2.0904			2	0.4753	1.6200	70.7
3	0.2980	3.4500	91.4	4	0.1700	0.6450	73.6
5	0.2528	1.7100	85.2	6	0.0714	0.4500	84.1
7	0.2212	1.1550	80.8	8	0.0492	0.3450	85.8
9	0.1861	0.6000	69.0	10	0.0344	0.2760	87.6
11	0.1499	0.4950	69.7	12	0.0223	0.2300	90.3
13	0.1119	0.3150	64.5	14	0.0246	0.1971	87.5
15	0.0801	0.2250	64.4	16	0.0136	0.1725	92.1
17	0.0515	0.1985	74.0	18	0.0178	0.1533	88.4
19	0.0323	0.1776	81.8	20	0.0126	0.1380	90.9
21	0.0211	0.1607	86.9	22	0.0116	0.1255	90.8
23	0.0226	0.1467	84.6	24	0.0127	0.1150	88.9
25	0.0252	0.1350	81.3	26	0.0081	0.1062	92.4
27	0.0239	0.1250	80.9	28	0.0098	0.0986	90.0
29	0.0206	0.1164	82.3	30	0.0076	0.0920	91.8
31	0.0161	0.1089	85.2	32	0.0077	0.0862	91.1
33	0.0132	0.1023	87.1	34	0.0079	0.0812	90.3
35	0.0094	0.0964	90.2	36	0.0060	0.0767	92.1
37	0.0079	0.0912	91.3	38	0.0067	0.0726	90.8
39	0.0092	0.0865	89.3	40	0.0055	0.0690	92.0



TASKalfa 2201 (Average)

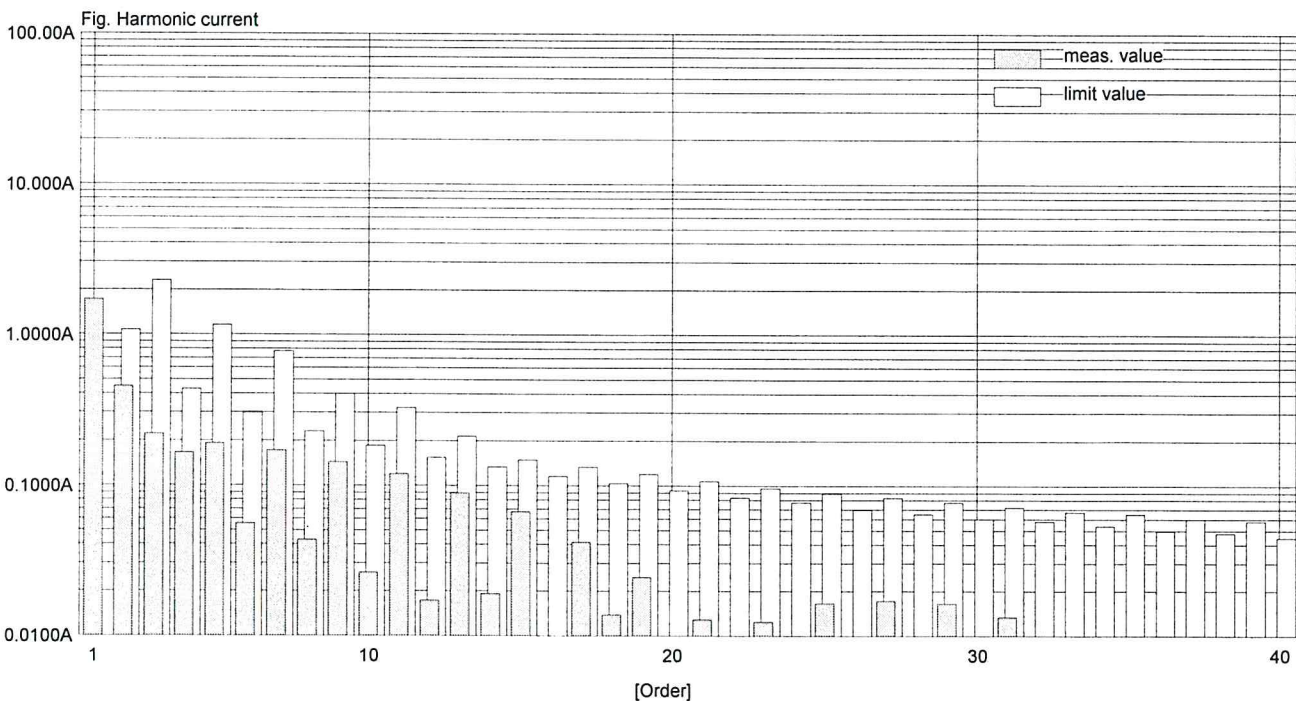
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 MeasureDate : Mon Oct 21 16:38:49 2013
 Comment : Print (A4 Short)
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 1.8556 A
 Voltage(rms) : 230.31 V
 Frequency : 50.000 Hz
 Power Factor : 0.9347
 POHC Limit : 0.2514 A
 POHC Max : 0.0477 A
 THC : 0.6331 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 482.7043 W
 Sigma PF : 0.9347
 Distortion factor(V) : 0.07 %
 V THDS : 0.07 %
 V THDG : 0.08 %
 Distortion factor(A) : 30.28 %
 A THDS : 34.40 %
 A THDG : 39.01 %
 P THD : 0.02 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	1.7402			2	0.4464	1.0800	58.7
3	0.2221	2.3000	90.3	4	0.1626	0.4300	62.2
5	0.1894	1.1400	83.4	6	0.0562	0.3000	81.3
7	0.1720	0.7700	77.7	8	0.0441	0.2300	80.8
9	0.1448	0.4000	63.8	10	0.0266	0.1840	85.6
11	0.1199	0.3300	63.7	12	0.0174	0.1533	88.6
13	0.0909	0.2100	56.7	14	0.0191	0.1314	85.5
15	0.0663	0.1500	55.8	16	0.0060	0.1150	94.8
17	0.0420	0.1324	68.3	18	0.0139	0.1022	86.4
19	0.0243	0.1184	79.5	20	0.0069	0.0920	92.5
21	0.0129	0.1071	87.9	22	0.0091	0.0836	89.1
23	0.0122	0.0978	87.5	24	0.0082	0.0767	89.3
25	0.0167	0.0900	81.5	26	0.0048	0.0708	93.2
27	0.0172	0.0833	79.3	28	0.0075	0.0657	88.6
29	0.0168	0.0776	78.4	30	0.0028	0.0613	95.4
31	0.0132	0.0726	81.7	32	0.0057	0.0575	90.1
33	0.0096	0.0682	85.9	34	0.0043	0.0541	92.1
35	0.0057	0.0643	91.2	36	0.0037	0.0511	92.7
37	0.0033	0.0608	94.5	38	0.0048	0.0484	90.1
39	0.0045	0.0577	92.1	40	0.0022	0.0460	95.3



TASKalfa 2201 (Maximum)

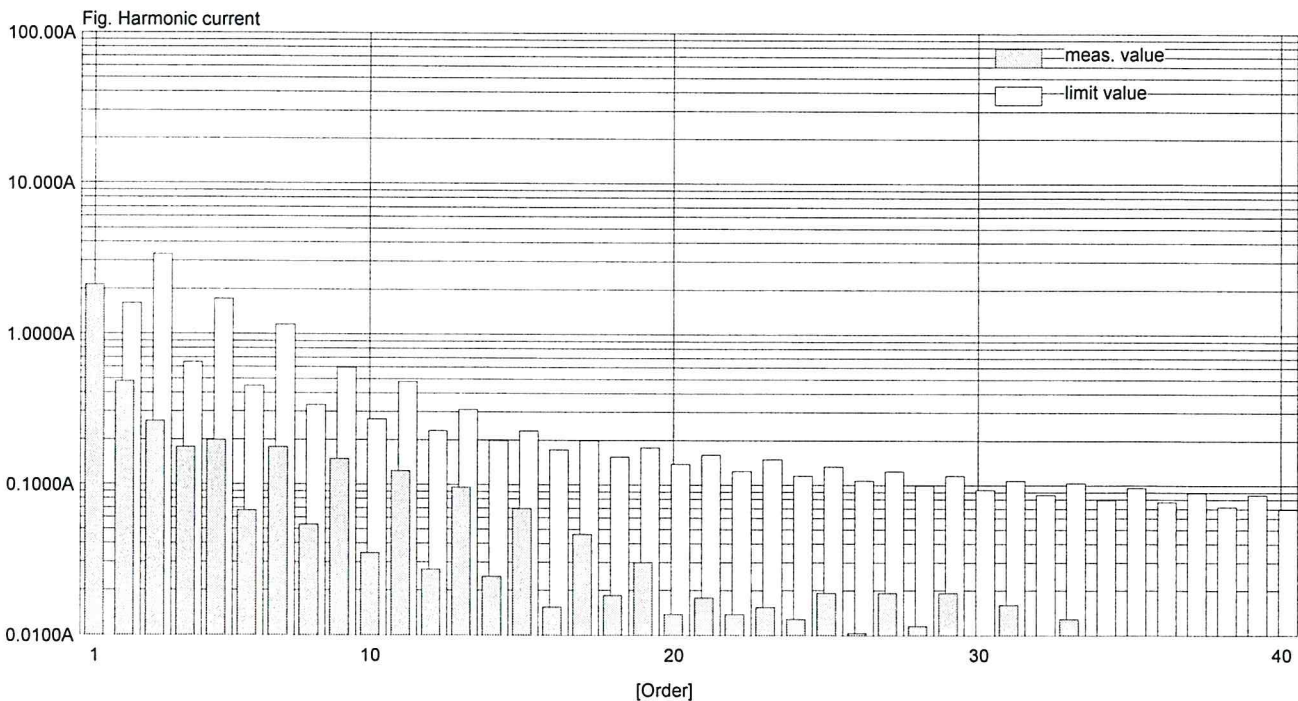
Print Date : Mon Oct 21 16:39:12 2013
 MeasureDate : Mon Oct 21 16:38:49 2013
 Comment : Print (A4 Short)
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 2.1994 A
 Voltage(rms) : 230.41 V
 Frequency : 50.009 Hz
 Power Factor : 0.9531
 Beyond Limit Time : 14.9999 s
 Beyond Total Time : 0.0000 s
 THC : 0.6782 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 482.7043 W
 Sigma PF : 0.9531
 Distortion factor(V) : 0.08 %
 V THDS : 0.08 %
 V THDG : 0.08 %
 Distortion factor(A) : 182.83 %
 A THDS : 183.09 %
 A THDG : 183.14 %
 P THD : 0.05 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	2.0973			2	0.4947	1.6200	69.5
3	0.2684	3.4500	92.2	4	0.1792	0.6450	72.2
5	0.1978	1.7100	88.4	6	0.0672	0.4500	85.1
7	0.1799	1.1550	84.4	8	0.0548	0.3450	84.1
9	0.1505	0.6000	74.9	10	0.0348	0.2760	87.4
11	0.1250	0.4950	74.7	12	0.0271	0.2300	88.2
13	0.0952	0.3150	69.8	14	0.0249	0.1971	87.4
15	0.0707	0.2250	68.6	16	0.0156	0.1725	90.9
17	0.0464	0.1985	76.6	18	0.0187	0.1533	87.8
19	0.0301	0.1776	83.1	20	0.0136	0.1380	90.2
21	0.0178	0.1607	89.0	22	0.0138	0.1255	89.0
23	0.0155	0.1467	89.4	24	0.0130	0.1150	88.7
25	0.0191	0.1350	85.8	26	0.0102	0.1062	90.4
27	0.0194	0.1250	84.5	28	0.0116	0.0986	88.2
29	0.0193	0.1164	83.4	30	0.0082	0.0920	91.1
31	0.0158	0.1089	85.5	32	0.0097	0.0862	88.8
33	0.0130	0.1023	87.3	34	0.0083	0.0812	89.8
35	0.0092	0.0964	90.4	36	0.0077	0.0767	89.9
37	0.0075	0.0912	91.8	38	0.0081	0.0726	88.8
39	0.0073	0.0865	91.6	40	0.0062	0.0690	91.0



TASKalfa 2201 (Average)

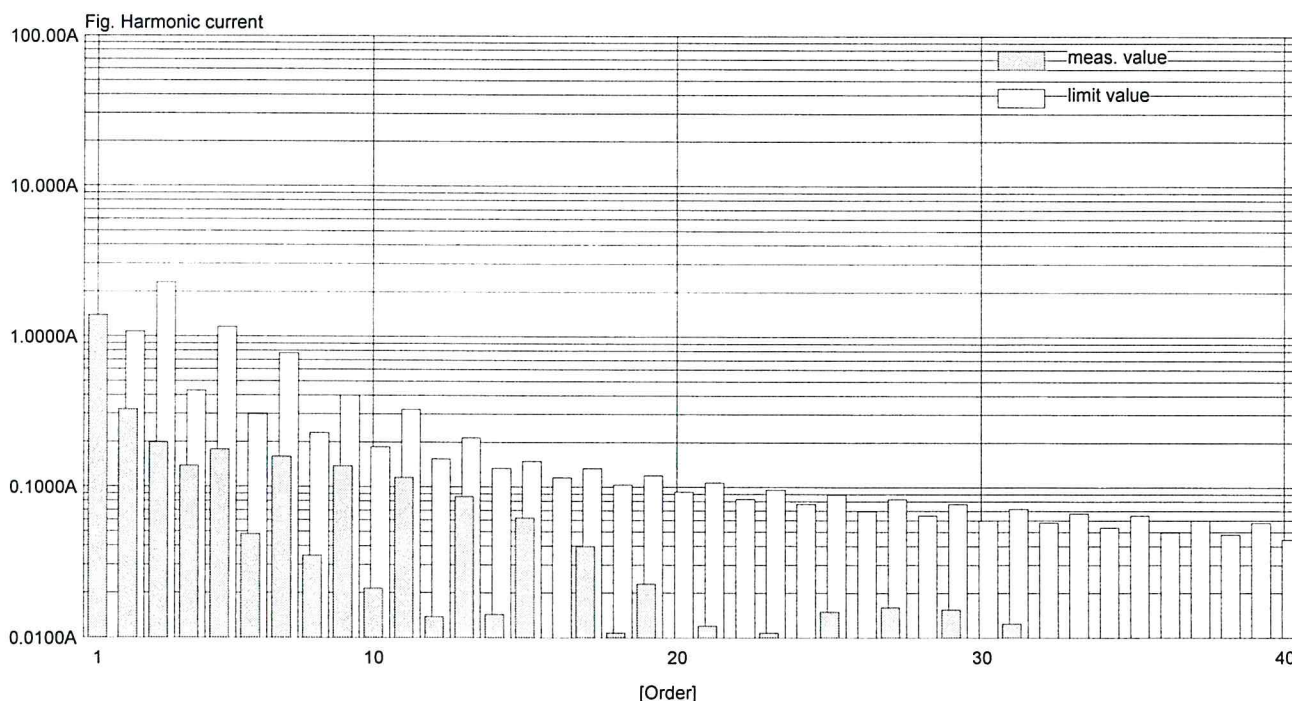
Print Date : Mon Oct 21 16:44:58 2013
 MeasureDate : Mon Oct 21 16:44:27 2013
 Comment : Print (A4 Long)
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 1.4750 A
 Voltage(rms) : 230.34 V
 Frequency : 50.000 Hz
 Power Factor : 0.9326
 POHC Limit : 0.2514 A
 POHC Max : 0.0406 A
 THC : 0.5244 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 371.4782 W
 Sigma PF : 0.9326
 Distortion factor(V) : 0.06 %
 V THDS : 0.06 %
 V THDG : 0.06 %
 Distortion factor(A) : 30.11 %
 A THDS : 30.40 %
 A THDG : 38.35 %
 P THD : 0.00 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	1.3777			2	0.3238	1.0800	70.0
3	0.2010	2.3000	91.3	4	0.1373	0.4300	68.1
5	0.1797	1.1400	84.2	6	0.0487	0.3000	83.8
7	0.1618	0.7700	79.0	8	0.0354	0.2300	84.6
9	0.1375	0.4000	65.6	10	0.0211	0.1840	88.5
11	0.1137	0.3300	65.6	12	0.0140	0.1533	90.9
13	0.0869	0.2100	58.6	14	0.0146	0.1314	88.9
15	0.0631	0.1500	57.9	16	0.0051	0.1150	95.5
17	0.0405	0.1324	69.4	18	0.0106	0.1022	89.7
19	0.0232	0.1184	80.4	20	0.0047	0.0920	94.9
21	0.0120	0.1071	88.8	22	0.0070	0.0836	91.6
23	0.0109	0.0978	88.9	24	0.0056	0.0767	92.6
25	0.0150	0.0900	83.4	26	0.0037	0.0708	94.7
27	0.0161	0.0833	80.7	28	0.0053	0.0657	92.0
29	0.0156	0.0776	79.9	30	0.0020	0.0613	96.8
31	0.0126	0.0726	82.6	32	0.0041	0.0575	92.8
33	0.0091	0.0682	86.6	34	0.0027	0.0541	95.0
35	0.0053	0.0643	91.7	36	0.0028	0.0511	94.5
37	0.0030	0.0608	95.0	38	0.0033	0.0484	93.2
39	0.0038	0.0577	93.4	40	0.0016	0.0460	96.4



TASKalfa 2201 (Maximum)

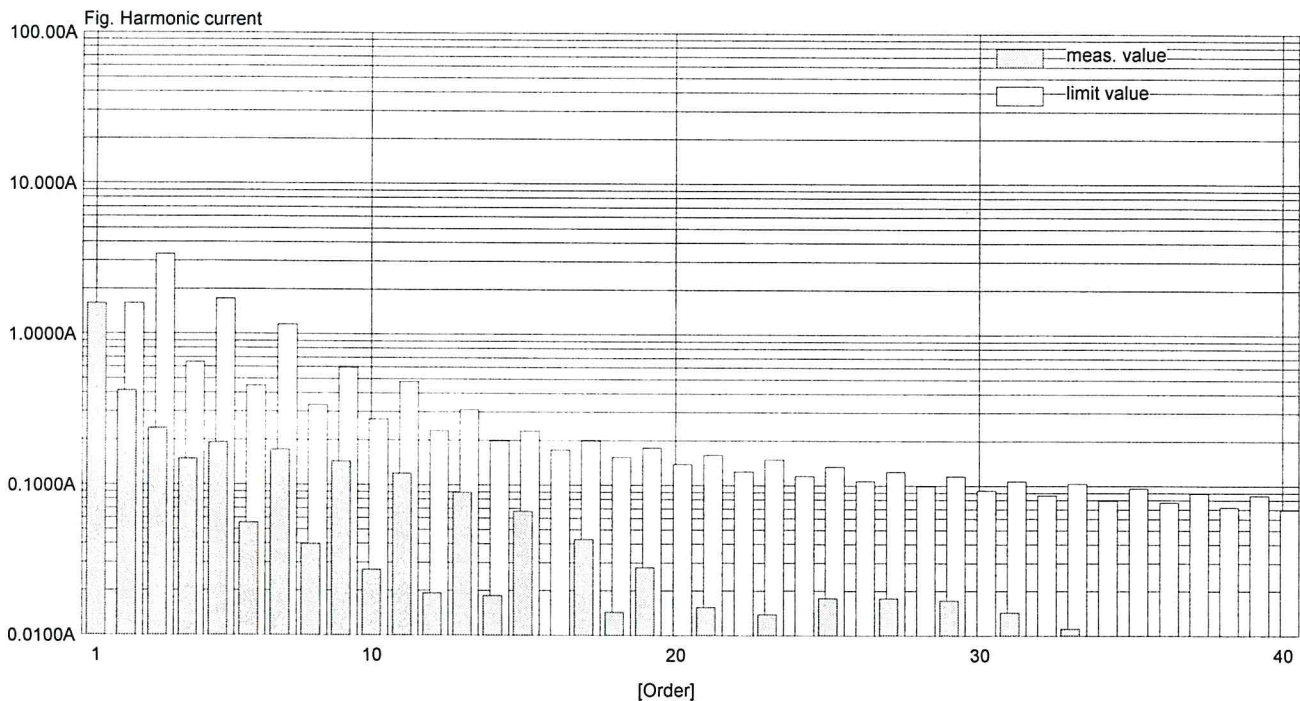
Print Date : Mon Oct 21 16:44:58 2013
 MeasureDate : Mon Oct 21 16:44:27 2013
 Comment : Print (A4 Long)
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 1.7160 A
 Voltage(rms) : 230.37 V
 Frequency : 50.004 Hz
 Power Factor : 0.9440
 Beyond Limit Time : 14.9999 s
 Beyond Total Time : 0.0000 s
 THC : 0.5864 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 371.4782 W
 Sigma PF : 0.9440
 Distortion factor(V) : 0.07 %
 V THDS : 0.07 %
 V THDG : 0.07 %
 Distortion factor(A) : 49.73 %
 A THDS : 49.73 %
 A THDG : 54.70 %
 P THD : 0.01 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	1.6140			2	0.4165	1.6200	74.3
3	0.2402	3.4500	93.0	4	0.1459	0.6450	77.4
5	0.1908	1.7100	88.8	6	0.0563	0.4500	87.5
7	0.1702	1.1550	85.3	8	0.0403	0.3450	88.3
9	0.1439	0.6000	76.0	10	0.0270	0.2760	90.2
11	0.1194	0.4950	75.9	12	0.0192	0.2300	91.6
13	0.0910	0.3150	71.1	14	0.0182	0.1971	90.8
15	0.0663	0.2250	70.5	16	0.0099	0.1725	94.3
17	0.0437	0.1985	78.0	18	0.0142	0.1533	90.7
19	0.0287	0.1776	83.9	20	0.0084	0.1380	93.9
21	0.0153	0.1607	90.5	22	0.0097	0.1255	92.2
23	0.0138	0.1467	90.6	24	0.0087	0.1150	92.4
25	0.0175	0.1350	87.0	26	0.0067	0.1062	93.7
27	0.0177	0.1250	85.8	28	0.0074	0.0986	92.4
29	0.0170	0.1164	85.4	30	0.0048	0.0920	94.8
31	0.0142	0.1089	86.9	32	0.0065	0.0862	92.5
33	0.0112	0.1023	89.0	34	0.0050	0.0812	93.9
35	0.0080	0.0964	91.7	36	0.0048	0.0767	93.7
37	0.0051	0.0912	94.5	38	0.0053	0.0726	92.7
39	0.0057	0.0865	93.5	40	0.0038	0.0690	94.6



TASKalfa 2201 (Average)

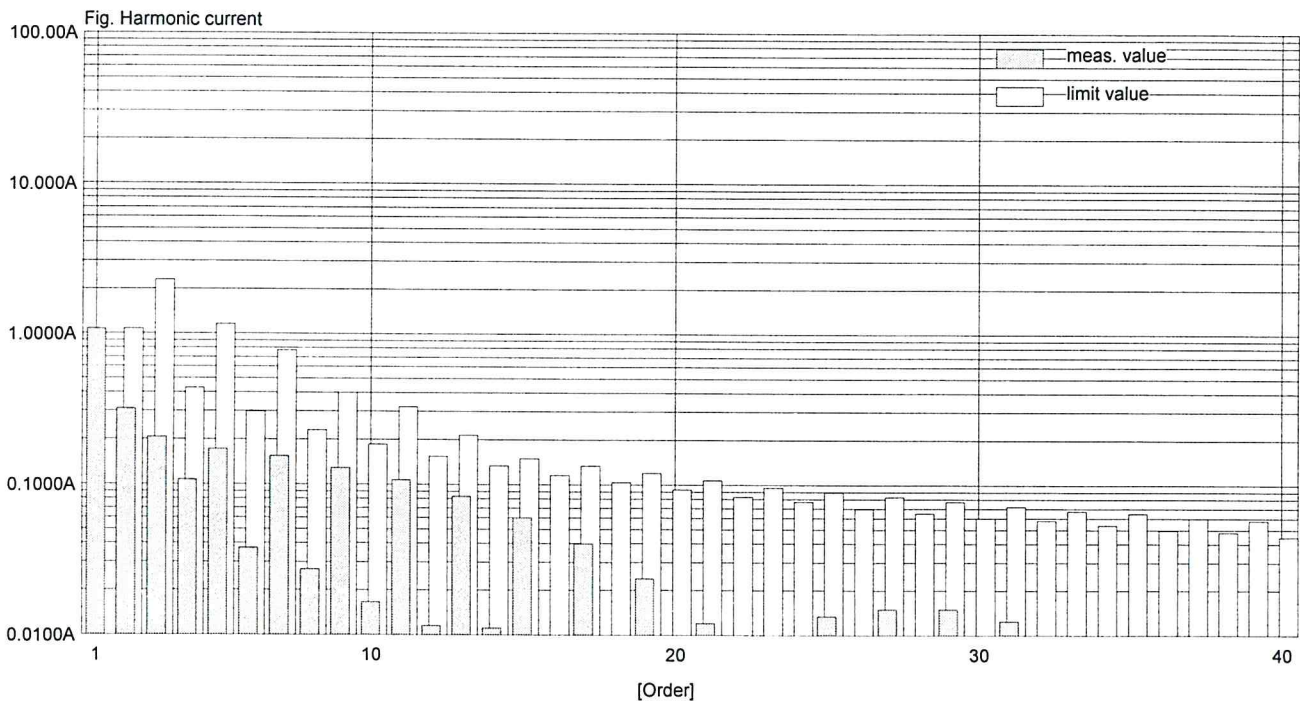
Print Date : Mon Oct 21 16:55:11 2013
 MeasureDate : Mon Oct 21 16:54:46 2013
 Comment : Duplex Print (A4 Long)
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 1.1882 A
 Voltage(rms) : 230.37 V
 Frequency : 50.000 Hz
 Power Factor : 0.8867
 POHC Limit : 0.2514 A
 POHC Max : 0.0384 A
 THC : 0.5046 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 310.5696 W
 Sigma PF : 0.8867
 Distortion factor(V) : 0.06 %
 V THDS : 0.06 %
 V THDG : 0.06 %
 Distortion factor(A) : 51.89 %
 A THDS : 52.00 %
 A THDG : 58.34 %
 P THD : 0.01 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	1.0623			2	0.3127	1.0800	71.0
3	0.2085	2.3000	90.9	4	0.1066	0.4300	75.2
5	0.1704	1.1400	85.1	6	0.0383	0.3000	87.2
7	0.1515	0.7700	80.3	8	0.0278	0.2300	87.9
9	0.1300	0.4000	67.5	10	0.0163	0.1840	91.2
11	0.1074	0.3300	67.5	12	0.0115	0.1533	92.5
13	0.0832	0.2100	60.4	14	0.0109	0.1314	91.7
15	0.0611	0.1500	59.3	16	0.0046	0.1150	96.0
17	0.0400	0.1324	69.7	18	0.0080	0.1022	92.2
19	0.0236	0.1184	80.1	20	0.0035	0.0920	96.2
21	0.0119	0.1071	88.9	22	0.0056	0.0836	93.3
23	0.0098	0.0978	89.9	24	0.0041	0.0767	94.7
25	0.0131	0.0900	85.4	26	0.0033	0.0708	95.4
27	0.0149	0.0833	82.1	28	0.0039	0.0657	94.1
29	0.0148	0.0776	80.9	30	0.0017	0.0613	97.2
31	0.0124	0.0726	82.9	32	0.0032	0.0575	94.4
33	0.0095	0.0682	86.1	34	0.0019	0.0541	96.6
35	0.0058	0.0643	91.0	36	0.0023	0.0511	95.4
37	0.0036	0.0608	94.1	38	0.0024	0.0484	95.1
39	0.0032	0.0577	94.4	40	0.0015	0.0460	96.7



TASKalfa 2201 (Maximum)

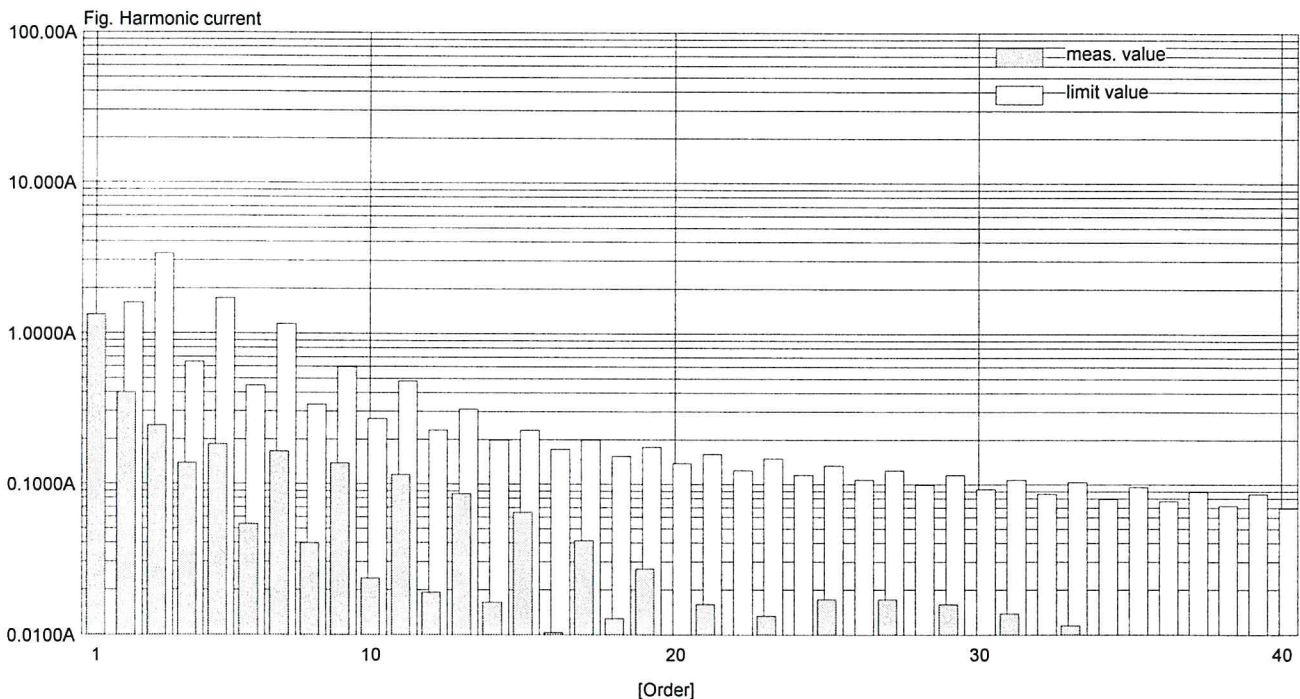
Print Date : Mon Oct 21 16:55:12 2013
 MeasureDate : Mon Oct 21 16:54:46 2013
 Comment : Duplex Print (A4 Long)
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 1.4433 A
 Voltage(rms) : 230.42 V
 Frequency : 50.011 Hz
 Power Factor : 0.9366
 Beyond Limit Time : 14.9999 s
 Beyond Total Time : 0.0000 s
 THC : 0.5761 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 310.5696 W
 Sigma PF : 0.9366
 Distortion factor(V) : 0.07 %
 V THDS : 0.07 %
 V THDG : 0.07 %
 Distortion factor(A) : 183.52 %
 A THDS : 183.52 %
 A THDG : 183.53 %
 P THD : 0.06 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	1.3499			2	0.4094	1.6200	74.7
3	0.2417	3.4500	93.0	4	0.1402	0.6450	78.3
5	0.1863	1.7100	89.1	6	0.0549	0.4500	87.8
7	0.1628	1.1550	85.9	8	0.0410	0.3450	88.1
9	0.1394	0.6000	76.8	10	0.0241	0.2760	91.3
11	0.1141	0.4950	77.0	12	0.0190	0.2300	91.7
13	0.0877	0.3150	72.2	14	0.0166	0.1971	91.6
15	0.0643	0.2250	71.4	16	0.0106	0.1725	93.9
17	0.0428	0.1985	78.5	18	0.0129	0.1533	91.6
19	0.0275	0.1776	84.5	20	0.0077	0.1380	94.4
21	0.0158	0.1607	90.2	22	0.0094	0.1255	92.5
23	0.0133	0.1467	90.9	24	0.0074	0.1150	93.5
25	0.0169	0.1350	87.5	26	0.0068	0.1062	93.8
27	0.0173	0.1250	86.2	28	0.0068	0.0986	93.1
29	0.0159	0.1164	86.4	30	0.0048	0.0920	94.8
31	0.0138	0.1089	87.3	32	0.0058	0.0862	93.2
33	0.0114	0.1023	88.9	34	0.0042	0.0812	94.8
35	0.0083	0.0964	91.4	36	0.0048	0.0767	93.8
37	0.0063	0.0912	93.1	38	0.0045	0.0726	93.9
39	0.0054	0.0865	93.7	40	0.0039	0.0690	94.4



TASKalfa 2201 (Average)

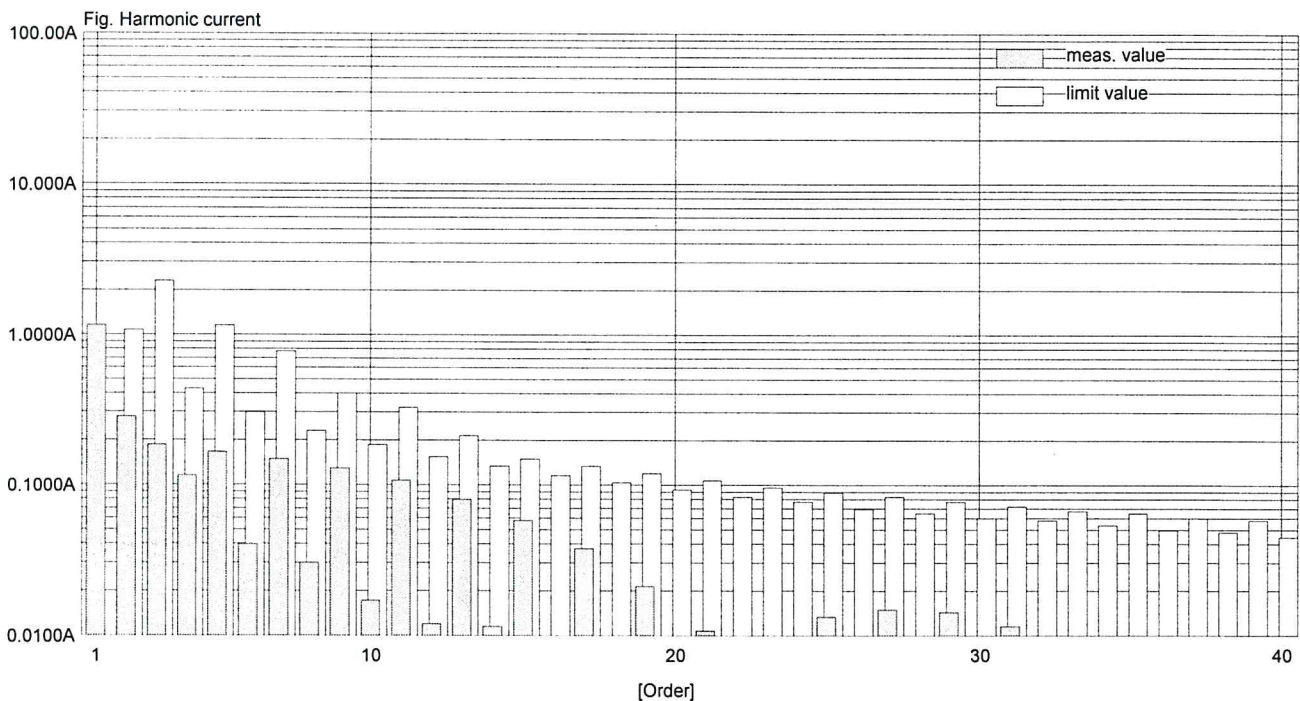
Print Date : Mon Oct 21 17:03:59 2013
 MeasureDate : Mon Oct 21 17:03:36 2013
 Comment : Duplex Print (A4 Short)
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 1.2849 A
 Voltage(rms) : 230.36 V
 Frequency : 50.000 Hz
 Power Factor : 0.8734
 POHC Limit : 0.2514 A
 POHC Max : 0.0355 A
 THC : 0.4829 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 414.3754 W
 Sigma PF : 0.8734
 Distortion factor(V) : 0.06 %
 V THDS : 0.06 %
 V THDG : 0.06 %
 Distortion factor(A) : 69.78 %
 A THDS : 70.11 %
 A THDG : 76.67 %
 P THD : 0.02 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	1.1542			2	0.2834	1.0800	73.8
3	0.1855	2.3000	91.9	4	0.1152	0.4300	73.2
5	0.1662	1.1400	85.4	6	0.0405	0.3000	86.5
7	0.1506	0.7700	80.4	8	0.0302	0.2300	86.9
9	0.1280	0.4000	68.0	10	0.0170	0.1840	90.8
11	0.1059	0.3300	67.9	12	0.0121	0.1533	92.1
13	0.0810	0.2100	61.4	14	0.0116	0.1314	91.2
15	0.0590	0.1500	60.7	16	0.0044	0.1150	96.2
17	0.0377	0.1324	71.5	18	0.0085	0.1022	91.7
19	0.0215	0.1184	81.9	20	0.0034	0.0920	96.3
21	0.0107	0.1071	90.0	22	0.0059	0.0836	92.9
23	0.0095	0.0978	90.3	24	0.0043	0.0767	94.4
25	0.0135	0.0900	85.1	26	0.0033	0.0708	95.3
27	0.0147	0.0833	82.4	28	0.0041	0.0657	93.7
29	0.0145	0.0776	81.3	30	0.0015	0.0613	97.5
31	0.0117	0.0726	83.9	32	0.0033	0.0575	94.2
33	0.0085	0.0682	87.5	34	0.0019	0.0541	96.5
35	0.0049	0.0643	92.3	36	0.0024	0.0511	95.3
37	0.0029	0.0608	95.2	38	0.0025	0.0484	94.8
39	0.0032	0.0577	94.4	40	0.0014	0.0460	96.9



TASKalfa 2201 (Maximum)

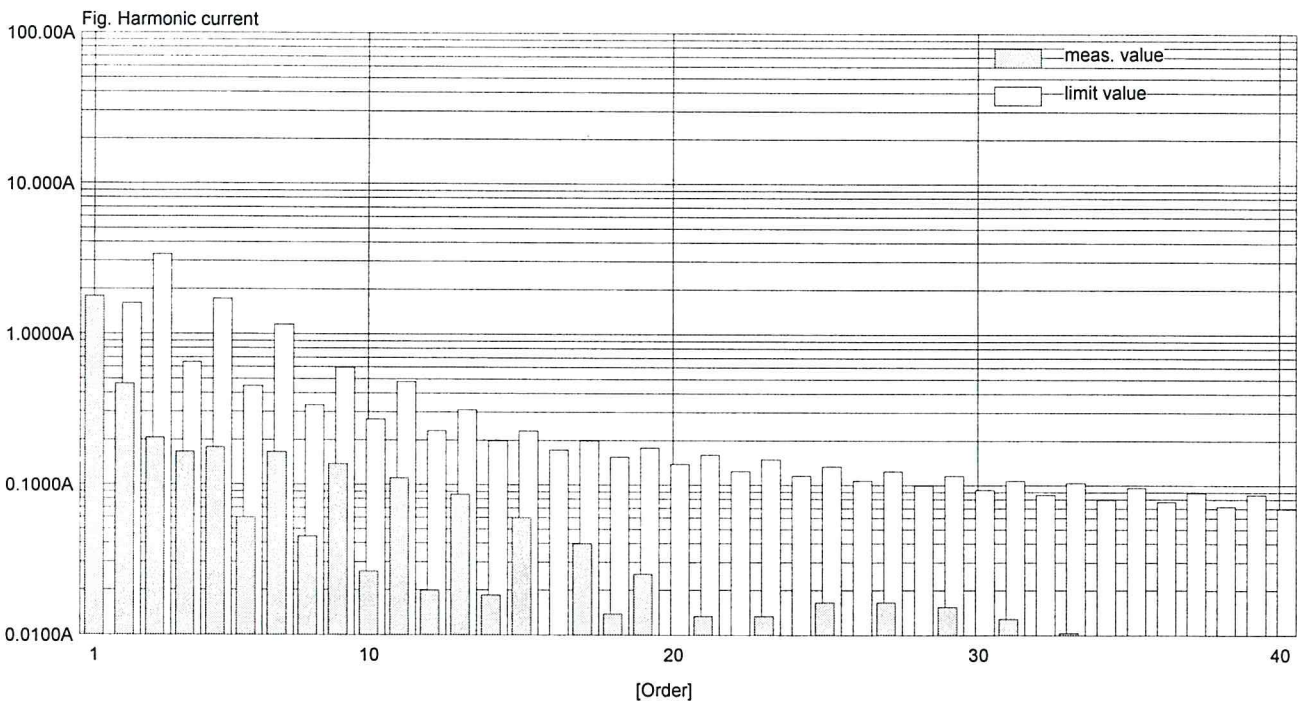
Print Date : Mon Oct 21 17:03:59 2013
 MeasureDate : Mon Oct 21 17:03:36 2013
 Comment : Duplex Print (A4 Short)
 (Option) DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-2 Ed3.0 am2
 IEC61000-4-7 Ed2.0 A1
 Class : CLASS A
 MeasureTime : 150.00sec
 Model : YOKOGAWA WT3000
 Rating Voltage : 230.00 V
 Wiring : single-phase 2-wire
 Element : 1
 Range : 300V/30A
 Current(rms) : 1.9047 A
 Voltage(rms) : 230.43 V
 Frequency : 50.008 Hz
 Power Factor : 0.9483
 Beyond Limit Time : 14.9999 s
 Beyond Total Time : 0.0000 s
 THC : 0.6098 A

PASS

Set Fundamental I : -----
 Set Power Factor : -----
 Set P : -----
 Sigma W Max : 414.3754 W
 Sigma PF : 0.9483
 Distortion factor(V) : 0.07 %
 V THDS : 0.07 %
 V THDG : 0.07 %
 Distortion factor(A) : 182.95 %
 A THDS : 182.95 %
 A THDG : 182.96 %
 P THD : 0.05 %
 Power Limit : 75 W

Order	Measure[A]	Limit[A]	Margin[%]	Order	Measure[A]	Limit[A]	Margin[%]
1	1.8004			2	0.4715	1.6200	70.9
3	0.2018	3.4500	94.2	4	0.1675	0.6450	74.0
5	0.1801	1.7100	89.5	6	0.0601	0.4500	86.6
7	0.1627	1.1550	85.9	8	0.0459	0.3450	86.7
9	0.1374	0.6000	77.1	10	0.0264	0.2760	90.4
11	0.1128	0.4950	77.2	12	0.0201	0.2300	91.3
13	0.0854	0.3150	72.9	14	0.0182	0.1971	90.7
15	0.0613	0.2250	72.8	16	0.0095	0.1725	94.5
17	0.0410	0.1985	79.4	18	0.0137	0.1533	91.1
19	0.0253	0.1776	85.8	20	0.0071	0.1380	94.9
21	0.0135	0.1607	91.6	22	0.0099	0.1255	92.1
23	0.0136	0.1467	90.8	24	0.0075	0.1150	93.5
25	0.0167	0.1350	87.6	26	0.0065	0.1062	93.9
27	0.0166	0.1250	86.8	28	0.0071	0.0986	92.8
29	0.0154	0.1164	86.8	30	0.0040	0.0920	95.7
31	0.0128	0.1089	88.3	32	0.0059	0.0862	93.1
33	0.0104	0.1023	89.8	34	0.0039	0.0812	95.1
35	0.0070	0.0964	92.7	36	0.0047	0.0767	93.9
37	0.0045	0.0912	95.1	38	0.0045	0.0726	93.8
39	0.0056	0.0865	93.6	40	0.0034	0.0690	95.1



EN61000-3-3/2008

Voltage Fluctuations/Flicker Measurement

<i>Equipment</i>	<i>Model</i>	<i>Serial No.</i>
Multi-Function Printer	TASKalfa 1801 / 2201	ZBH3900042
Paper Feeder	PF-480	LBN3900023
		LBN3900027
		LBN3900029
Document Processor	DP-480	ZBK3500252
Duplex Unit	DU-480	TEST-1
FAX Kit	FAX System (X)	TEST-1
Network Printer Kit	IB-33	TEST-1

Date : 21 October, 2013

Temperature : 24°C

Humidity : 56%

Atom. Pressure : 1014hPa

Testing Place : Kyocera Document Solutions CE Test Room

Power Input : AC230V, 50Hz

Tested by : Takayuki Matsuura

T. Matsuura

This test was applied as follows.

<i>Evaluate item</i>	<i>Limit</i>	<i>Result</i>
Relative steady-state voltage change	$d_c \leq 3.3\%$	Pass
Maximum relative voltage change	$d_{\max} \leq 4\%$	
Relative voltage change characteristic	$dt \leq 500\text{ms}$	
Short-term flicker indicator	$P_{ST} \leq 1$	
Long-term flicker indicator	$P_{LT} \leq 0.65$	

Test equipment used : Analyzing System : WT3000 (Yokogawa Electric Corporation)

TASKalfa 2201

Print Date : Mon Oct 21 14:57:09 2013
MeasureDate : Mon Oct 21 14:54:18 2013
Comment : Standby
(Option)DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-3 Ed2.0
IEC61000-4-15 Ed1.1
Interval : 10Min0Sec
Model : YOKOGAWA WT3000
Wiring : single-phase 2wire
Voltage Range : 300.00V
Voltage U1 : 230.47V
Set Frequency : 50Hz
Frequency U1 : 50.001Hz
Element : 1
dmin : 0.10%

PASS

Element1	:	Pass
dc (3.30%)	:	Pass
dmax (4.00%)	:	Pass
d(t) (500ms)	:	Pass
Pst (1.00)	:	Pass
Plt (0.65)	:	Pass

No.	dc[%]	dmax[%]	d(t)[ms]	Pst
1	0.96	3.05	0.00	0.31
2	0.09	0.12	0.00	0.07
3	0.09	0.12	0.00	0.07
4	0.09	0.12	0.00	0.07
5	0.09	0.13	0.00	0.07
6	0.09	0.12	0.00	0.07
7	0.09	0.13	0.00	0.07
8	0.09	0.12	0.00	0.07
9	0.09	0.12	0.00	0.07
10	0.09	0.12	0.00	0.07
11	0.09	0.12	0.00	0.07
12	0.09	0.12	0.00	0.07

Plt
0.14

TASKalfa 2201

Print Date : Mon Oct 21 15:11:28 2013
MeasureDate : Mon Oct 21 15:10:06 2013
Comment : Duplex Copy (A4 Long)
(Option)DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-3 Ed2.0
IEC61000-4-15 Ed1.1
Interval : 10Min0Sec
Model : YOKOGAWA WT3000
Wiring : single-phase 2wire
Voltage Range : 300.00V
Voltage U1 : 229.37V
Set Frequency : 50Hz
Frequency U1 : 50.003Hz
Element : 1
dmin : 0.10%

PASS

Element1	:	Pass
dc	(3.30%)	: Pass
dmax	(4.00%)	: Pass
d(t)	(500ms)	: Pass
Pst	(1.00)	: Pass
Plt	(0.65)	: Pass

No.	dc[%]	dmax[%]	d(t)[ms]	Pst
1	0.62	1.91	0.00	0.66
				Plt
				0.29

TASKalfa 2201

Print Date : Mon Oct 21 15:26:49 2013
MeasureDate : Mon Oct 21 15:25:33 2013
Comment : Duplex Copy (A4 Short)
(Option)DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-3 Ed2.0
IEC61000-4-15 Ed1.1
Interval : 10Min0Sec
Model : YOKOGAWA WT3000
Wiring : single-phase 2wire
Voltage Range : 300.00V
Voltage U1 : 229.50V
Set Frequency : 50Hz
Frequency U1 : 50.000Hz
Element : 1
dmin : 0.15%

PASS

Element1 : Pass
dc (3.30%) : Pass
dmax (4.00%) : Pass
d(t) (500ms) : Pass
Pst (1.00) : Pass
Plt (0.65) : Pass

No.	dc[%]	dmax[%]	d(t)[ms]	Pst
1	0.65	1.65	0.00	0.66
				Plt
				0.29

TASKalfa 2201

Print Date : Mon Oct 21 15:50:40 2013
MeasureDate : Mon Oct 21 15:50:00 2013
Comment : Copy (A4 Long)
(Option)DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-3 Ed2.0
IEC61000-4-15 Ed1.1
Interval : 10Min0Sec
Model : YOKOGAWA WT3000
Wiring : single-phase 2wire
Voltage Range : 300.00V
Voltage U1 : 229.82V
Set Frequency : 50Hz
Frequency U1 : 50.000Hz
Element : 1
dmin : 0.70%

PASS

Element1 : Pass
dc (3.30%) : Pass
dmax (4.00%) : Pass
d(t) (500ms) : Pass
Pst (1.00) : Pass
Plt (0.65) : Pass

No.	dc[%]	dmax[%]	d(t)[ms]	Pst
1	0.61	0.95	0.00	0.47

Plt
0.20

TASKalfa 2201

Print Date : Mon Oct 21 16:05:53 2013
MeasureDate : Mon Oct 21 16:05:13 2013
Comment : Duplex Print (A4 Long)
(Option)DU-480, DP-480, PF-480*3, IB-33, FAX System (X)

Regulation : IEC61000-3-3 Ed2.0
IEC61000-4-15 Ed1.1
Interval : 10Min0Sec
Model : YOKOGAWA WT3000
Wiring : single-phase 2wire
Voltage Range : 300.00V
Voltage U1 : 229.93V
Set Frequency : 50Hz
Frequency U1 : 50.000Hz
Element : 1
dmin : 0.70%

PASS

Element1 : Pass
dc (3.30%) : Pass
dmax (4.00%) : Pass
d(t) (500ms) : Pass
Pst (1.00) : Pass
Plt (0.65) : Pass

No.	dc[%]	dmax[%]	d(t)[ms]	Pst
1	0.64	1.87	0.00	0.64
				Plt
				0.28

Photograph of Tested Device Configuration

(Harmonic Current Measurement/ Flicker Measurement)

