

ZWS10C

EVALUATION DATA

型式データ

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2. 特性データ Characteristics

2-1. 静特性 Steady state data

(1) 入力・負荷・温度変動／出力起動・遮断電圧

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使用記号 Terminology used

定義 Definition

Vin 入力電圧 Input voltage

Vout 出力電圧 Output voltage

Iin 入力電流 Input current

Iout 出力電流 Output current

Ta 周囲温度 Ambient temperature

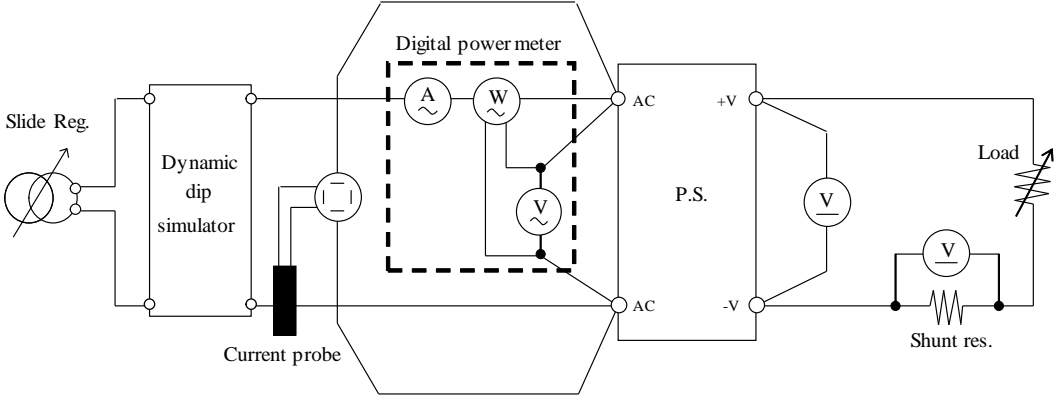
f 周波数 Frequency

※ 当社測定条件における結果であり、参考値としてお考え願います。

Test results are reference data based on our measurement condition.

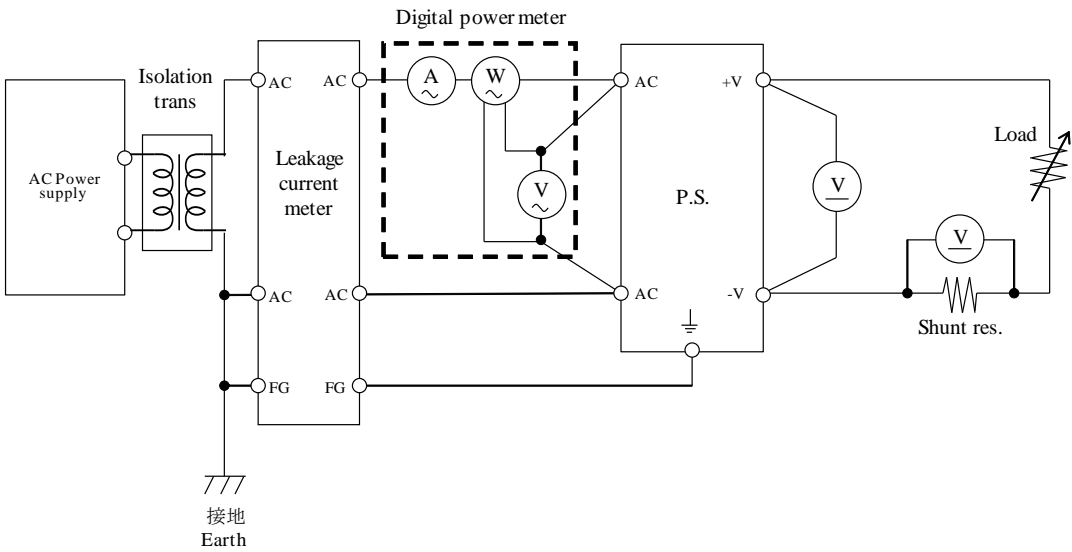
測定回路3 Circuit 3 used for determination

- 入力サージ電流 (突入電流) 波形 Inrush current waveform



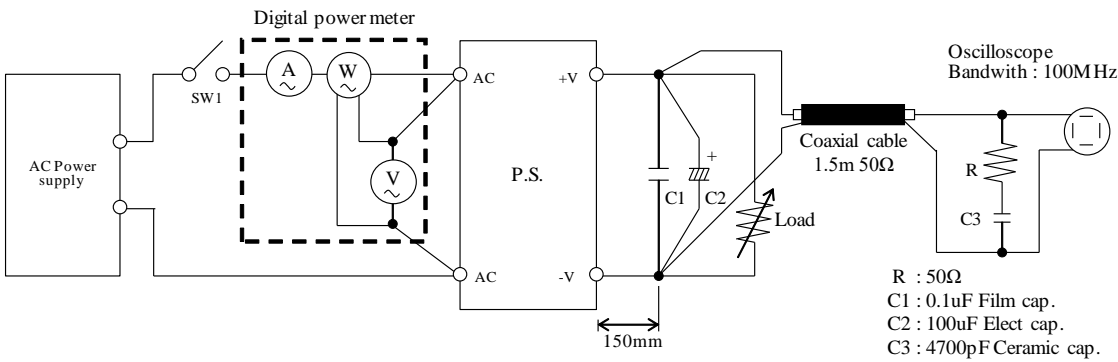
測定回路4 Circuit 4 used for determination

- リーク電流特性 Leakage current characteristics



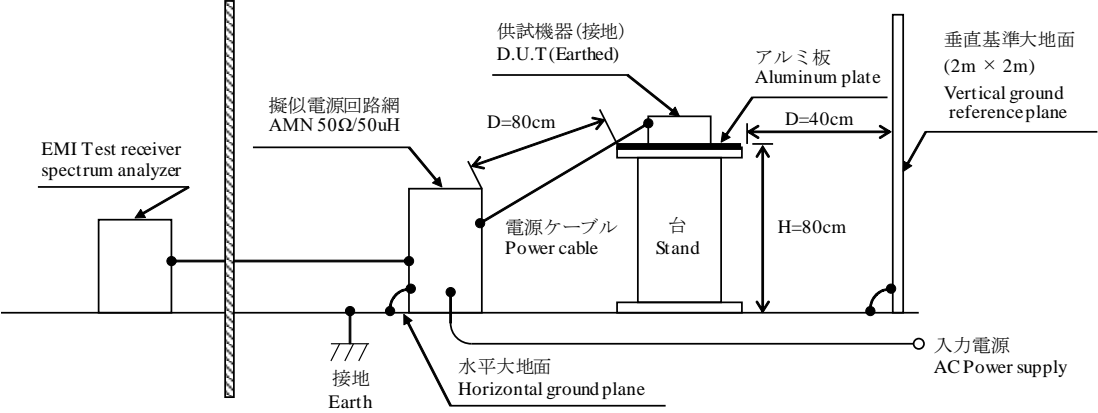
測定回路5 Circuit 5 used for determination

- 出力リップル、ノイズ波形 Output ripple and noise waveform

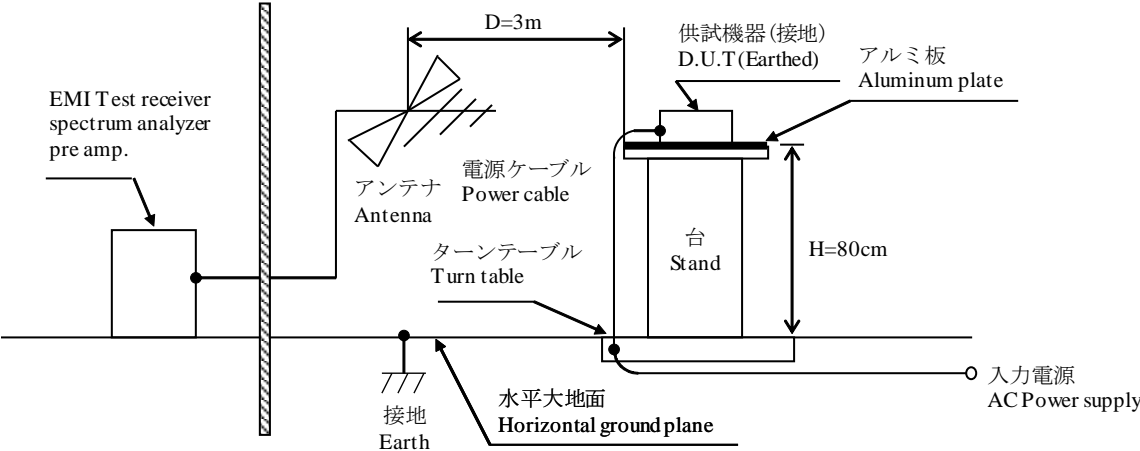


測定構成 Configuration used for determination

- EMI特性 Electro-Magnetic Interference characteristics
 - (a) 雑音端子電圧 (帰還ノイズ) Conducted Emission



- (b) 雑音電界強度 (放射ノイズ) Radiated Emission



1-2. 使用測定機器 List of equipment used

	EQUIPMENT USED	MANUFACTURER	MODEL NO.
1	DIGITAL STORAGE OSCILLOSCOPE	YOKOGAWA ELECT.	DLM3054
2	DIGITAL MULTIMETER	AGILENT	34970A
3	DIGITAL POWER METER	YOKOGAWA ELECT.	WT210
4	CURRENT PROBE	TEKTRONIX	TPC312 / TP305A
5	CURRENT AMP	TEKTRONIX	TCPA300
6	DYNAMIC DUMMY LOAD	CHROMA	63103A
7	CVCF	CHROMA	6530
8	CVCF	CHROMA	61603
9	CVCF	KIKUSUI	PCR2000W / PCR1000LE
10	CONTROLLED TEMP. CHAMBER	ESPEC	SU-261 / SU-262
11	EMI TEST RECEIVER / SPECTRUM ANALYZER	ROHM & SCHWARZ	ESCI / ESR3
12	LISN	ROHM & SCHWARZ	ENV216
13	ANTENNA	SCHWARZBECK	VULB 9168
14	PRE-AMPLIFIER	EMCI	EMC9135 (EMCI)
15	DUMMY LOAD	FUTABA	RAGR SERIES
16	LEAKAGE CURRENT METER	EXTECH	7611

2. 特性データ Characteristics

2-1. 静特性 Steady state data

(1) 入力・負荷・温度変動／出力起動・遮断電圧

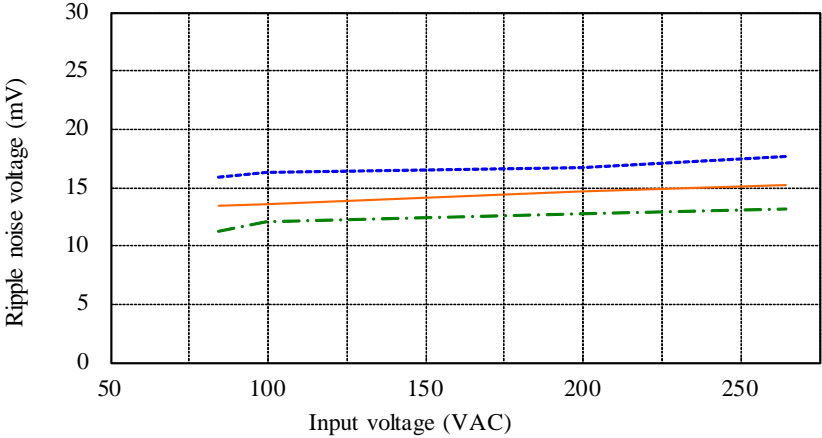
Regulation - line and load, Temperature drift / Start up voltage and Drop out voltage

5V	1. Regulation - line and load					Condition Ta : 25 °C	
Iout \ Vin	85VAC	100VAC	200VAC	265VAC	Line regulation		
0%	5.012V	5.008V	5.006V	5.014V	8mV	0.160%	
50%	5.010V	5.010V	5.010V	5.010V	0mV	0.000%	
Full load	5.009V	5.009V	5.009V	5.009V	0mV	0.000%	
Load regulation	3mV	2mV	4mV	5mV			
	0.060%	0.040%	0.080%	0.100%			
2. Temperature drift					Conditions Vin : 100 VAC Iout : 100 %		
Ta	-10°C	+25°C	+55°C	Temperature stability			
Vout	5.002V	5.009V	5.008V	7mV	0.140%		
3. Start up voltage and Drop out voltage					Conditions Ta : 25 °C Iout : 100 %		
Start up voltage (Vin)		69VAC					
Drop out voltage (Vin)		54VAC					
12V	1. Regulation - line and load					Condition Ta : 25 °C	
Iout \ Vin	85VAC	100VAC	200VAC	265VAC	Line regulation		
0%	12.010V	12.000V	12.004V	12.002V	10mV	0.083%	
50%	12.005V	12.005V	12.005V	12.005V	0mV	0.000%	
Full load	12.004V	12.004V	12.004V	12.005V	1mV	0.008%	
Load regulation	6mV	5mV	1mV	3mV			
	0.050%	0.042%	0.008%	0.025%			
2. Temperature drift					Conditions Vin : 100 VAC Iout : 100 %		
Ta	-10°C	+25°C	+55°C	Temperature stability			
Vout	11.979V	11.984V	11.970V	14mV	0.117%		
3. Start up voltage and Drop out voltage					Conditions Ta : 25 °C Iout : 100 %		
Start up voltage (Vin)		69VAC					
Drop out voltage (Vin)		53VAC					
24V	1. Regulation - line and load					Condition Ta : 25 °C	
Iout \ Vin	85VAC	100VAC	200VAC	265VAC	Line regulation		
0%	23.894V	23.896V	23.894V	23.898V	4mV	0.017%	
50%	23.895V	23.895V	23.895V	23.895V	0mV	0.000%	
Full load	23.894V	23.894V	23.894V	23.894V	0mV	0.000%	
Load regulation	1mV	2mV	1mV	4mV			
	0.004%	0.008%	0.004%	0.017%			
2. Temperature drift					Conditions Vin : 100 VAC Iout : 100 %		
Ta	-10°C	+25°C	+55°C	Temperature stability			
Vout	23.895V	23.894V	23.864V	31mV	0.129%		
3. Start up voltage and Drop out voltage					Conditions Ta : 25 °C Iout : 100 %		
Start up voltage (Vin)		68VAC					
Drop out voltage (Vin)		56VAC					

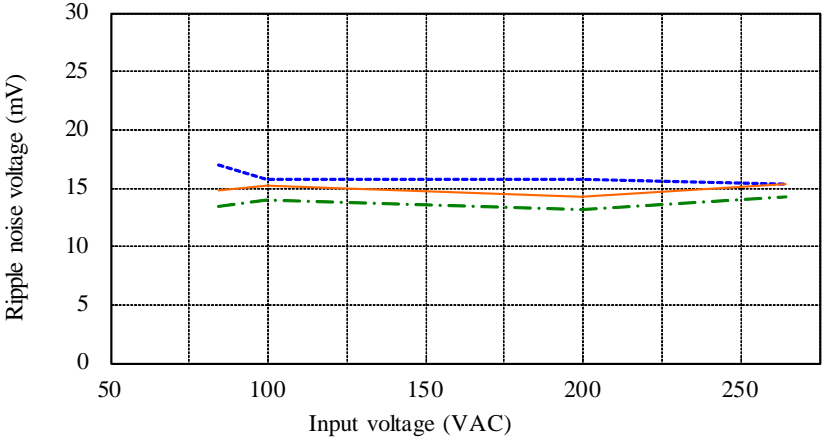
(2) リップルノイズ電圧対入力電圧 Ripple noise voltage vs. Input voltage

Conditions Iout : 100 %
Ta : -10 °C ---
 25 °C - · - · -
 55 °C ---

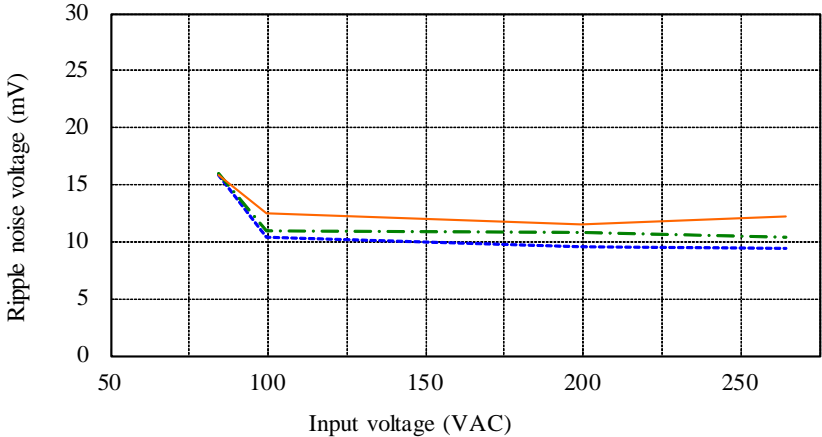
5V



12V



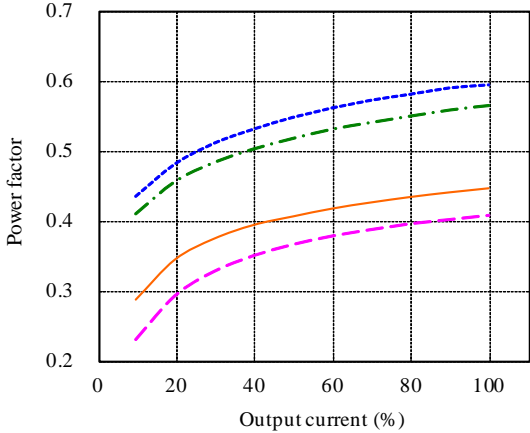
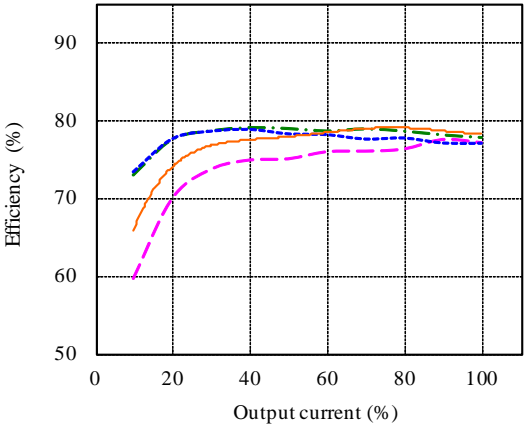
24V



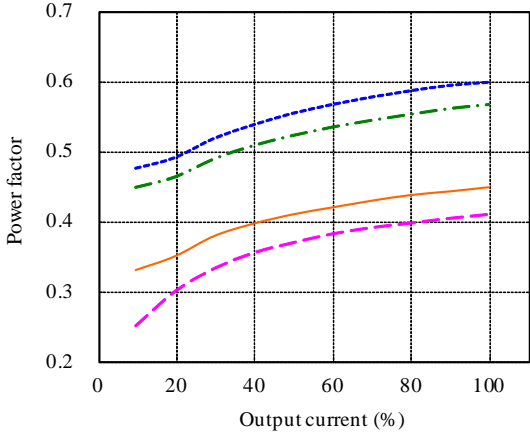
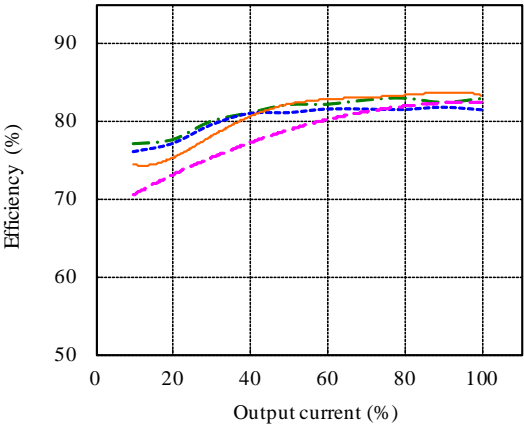
(3) 効率・力率対出力電流 Efficiency and Power factor vs. Output current

Conditions Vin : 85 VAC ---
100 VAC - - -
200 VAC ---
265 VAC - - -
Ta : 25 °C

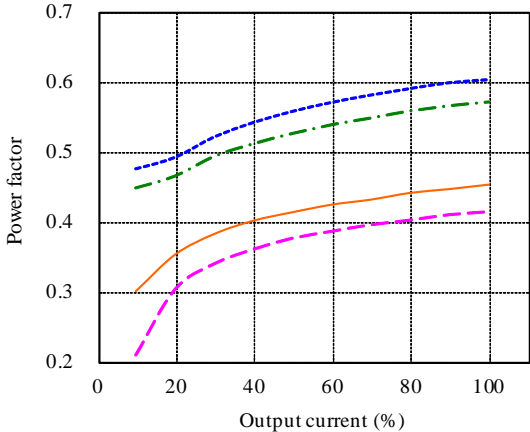
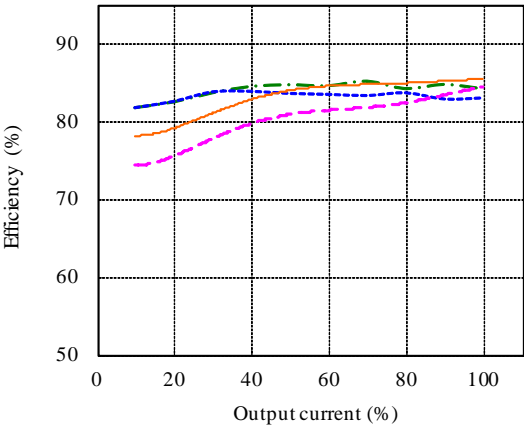
5V



12V



24V

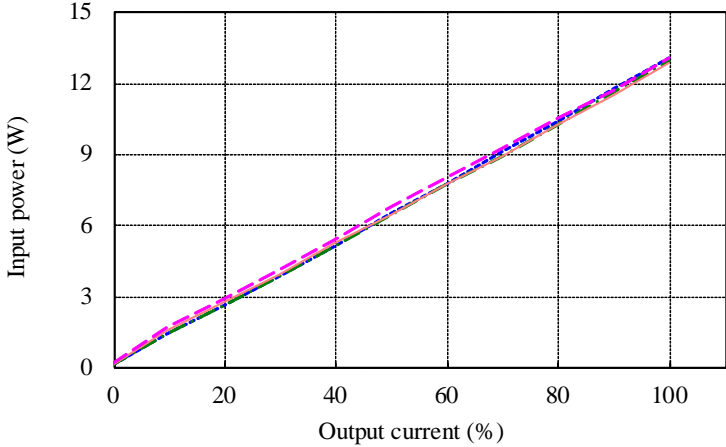


(4) 入力電力対出力電流 Input power vs. Output current

Conditions Vin : 85 VAC ---
 100 VAC - - -
 200 VAC ---
 265 VAC - - -
 Ta : 25 °C

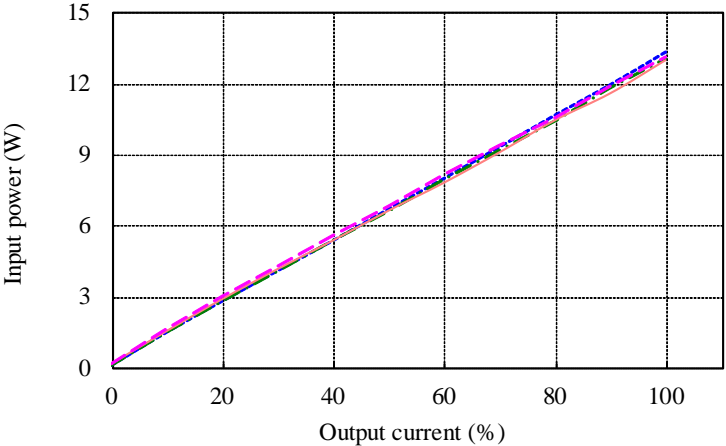
5V

Vin	Input power
	Iout : 0%
85VAC	0.1W
100VAC	0.1W
200VAC	0.1W
265VAC	0.2W



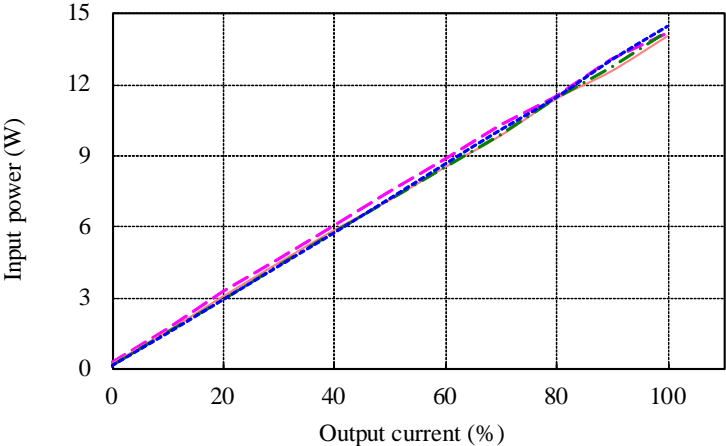
12V

Vin	Input power
	Iout : 0%
85VAC	0.1W
100VAC	0.1W
200VAC	0.1W
265VAC	0.2W



24V

Vin	Input power
	Iout : 0%
85VAC	0.1W
100VAC	0.1W
200VAC	0.2W
265VAC	0.2W

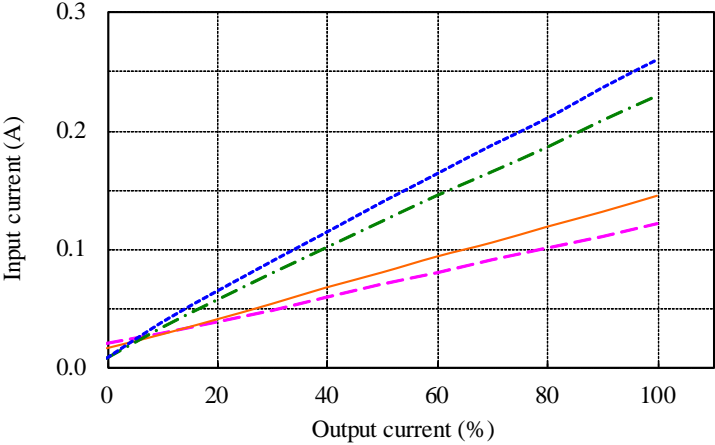


(5) 入力電流対出力電流 Input current vs. Output current

Conditions Vin : 85 VAC (blue dashed line)
 100 VAC (green dash-dot line)
 200 VAC (orange solid line)
 265 VAC (magenta dashed line)
 Ta : 25 °C

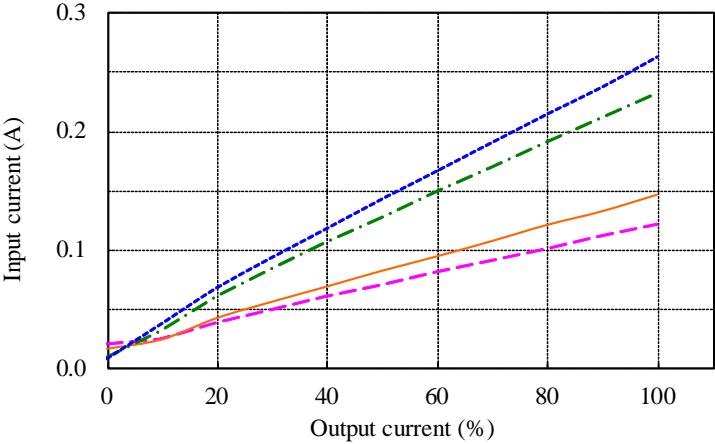
5V

Vin	Input current
	Iout : 0%
85VAC	0.01A
100VAC	0.01A
200VAC	0.02A
265VAC	0.02A



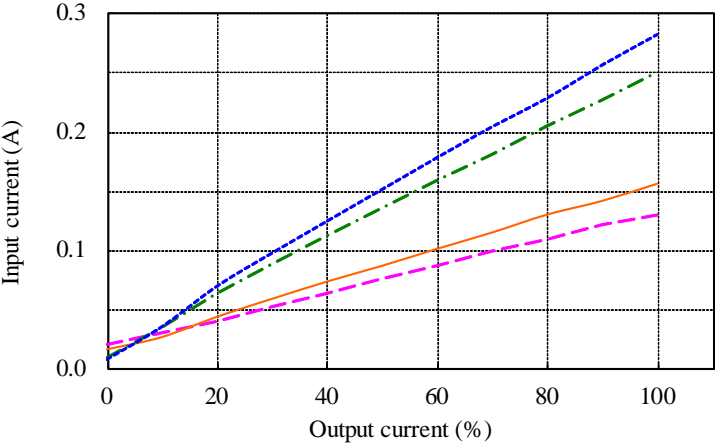
12V

Vin	Input current
	Iout : 0%
85VAC	0.01A
100VAC	0.01A
200VAC	0.02A
265VAC	0.02A



24V

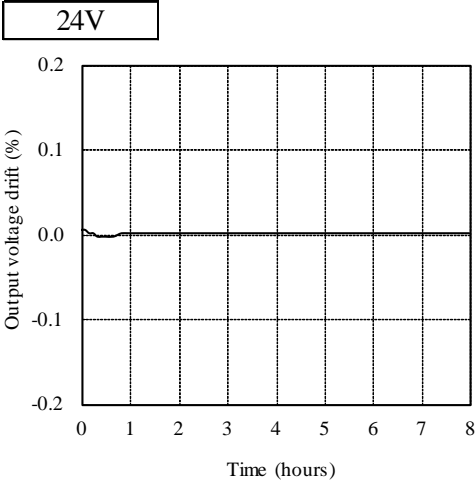
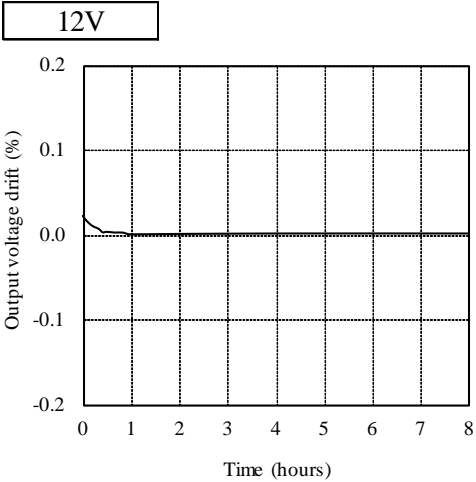
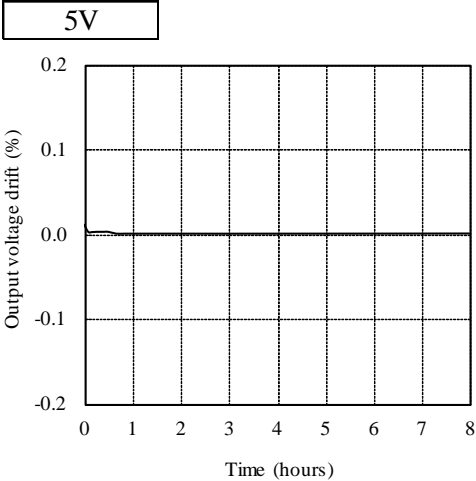
Vin	Input current
	Iout : 0%
85VAC	0.01A
100VAC	0.01A
200VAC	0.02A
265VAC	0.02A



2-2. 通電ドリフト特性

Warm up voltage drift characteristics

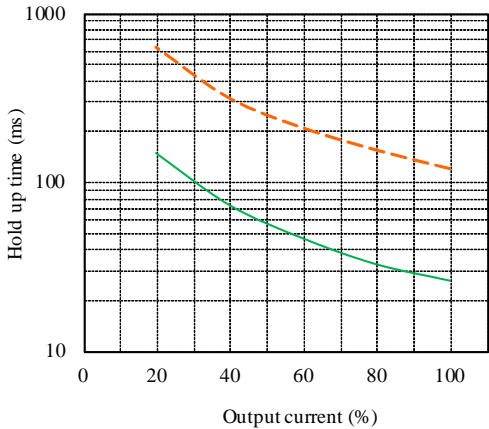
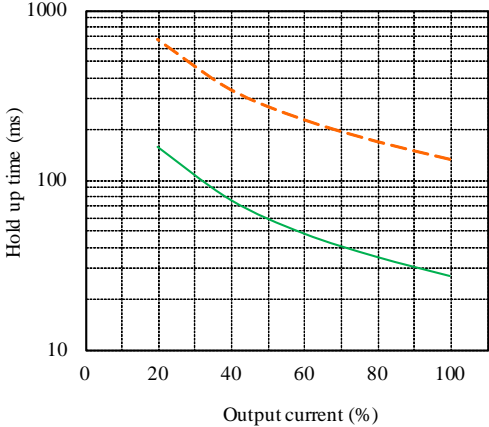
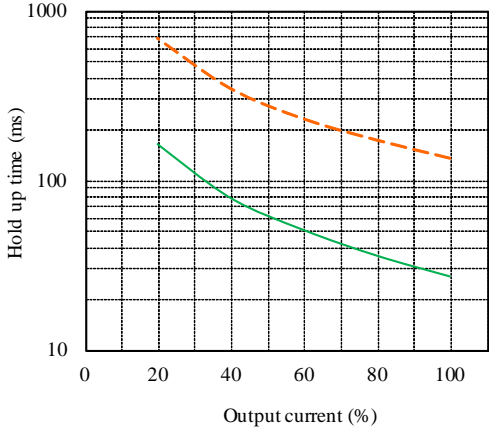
Conditions Vin : 100 VAC
Iout : 100 %
Ta : 25 °C



2-3. 出力保持時間特性

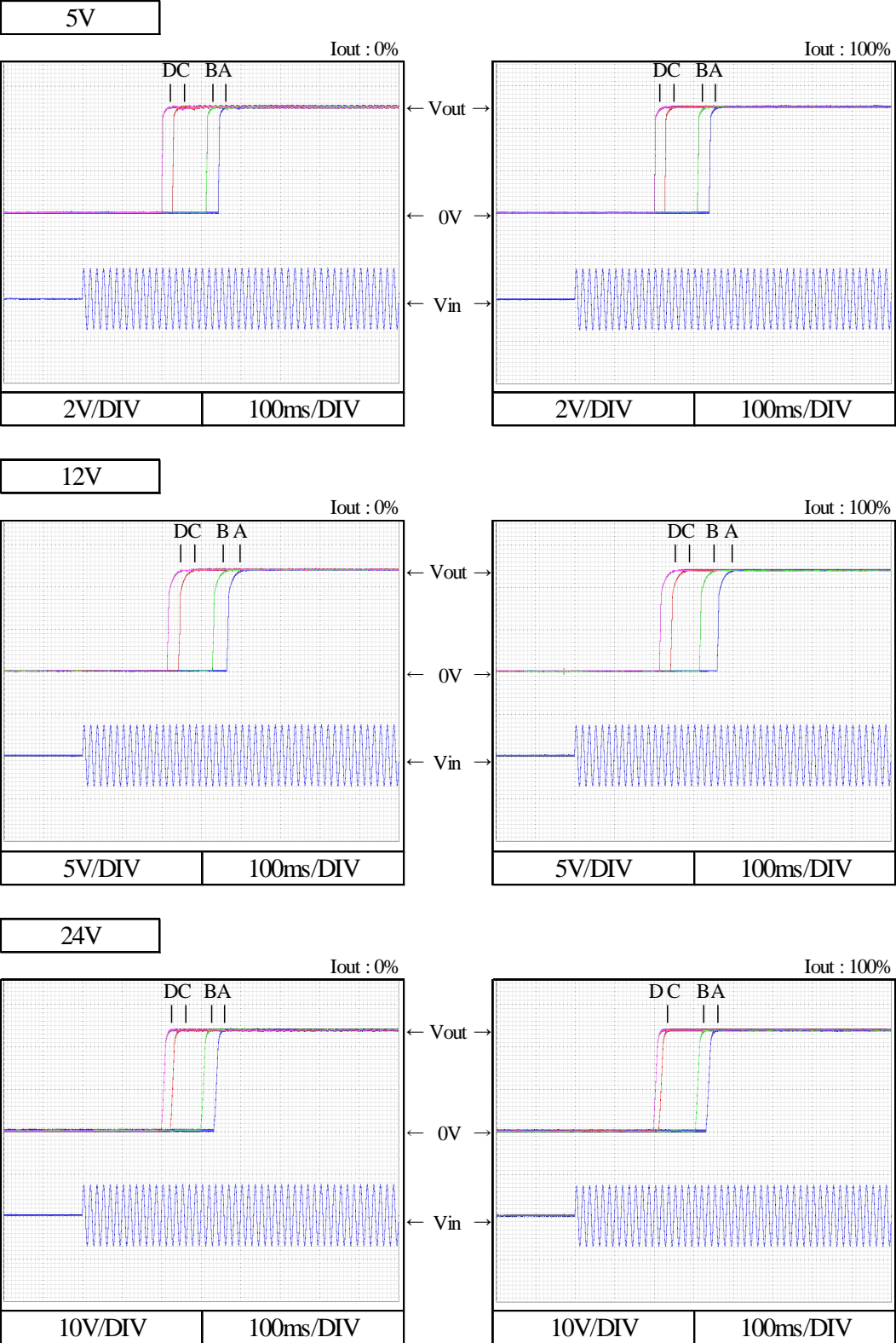
Hold up time characteristics

Conditions Vin : 100 VAC
200 VAC
Ta : 25 °C



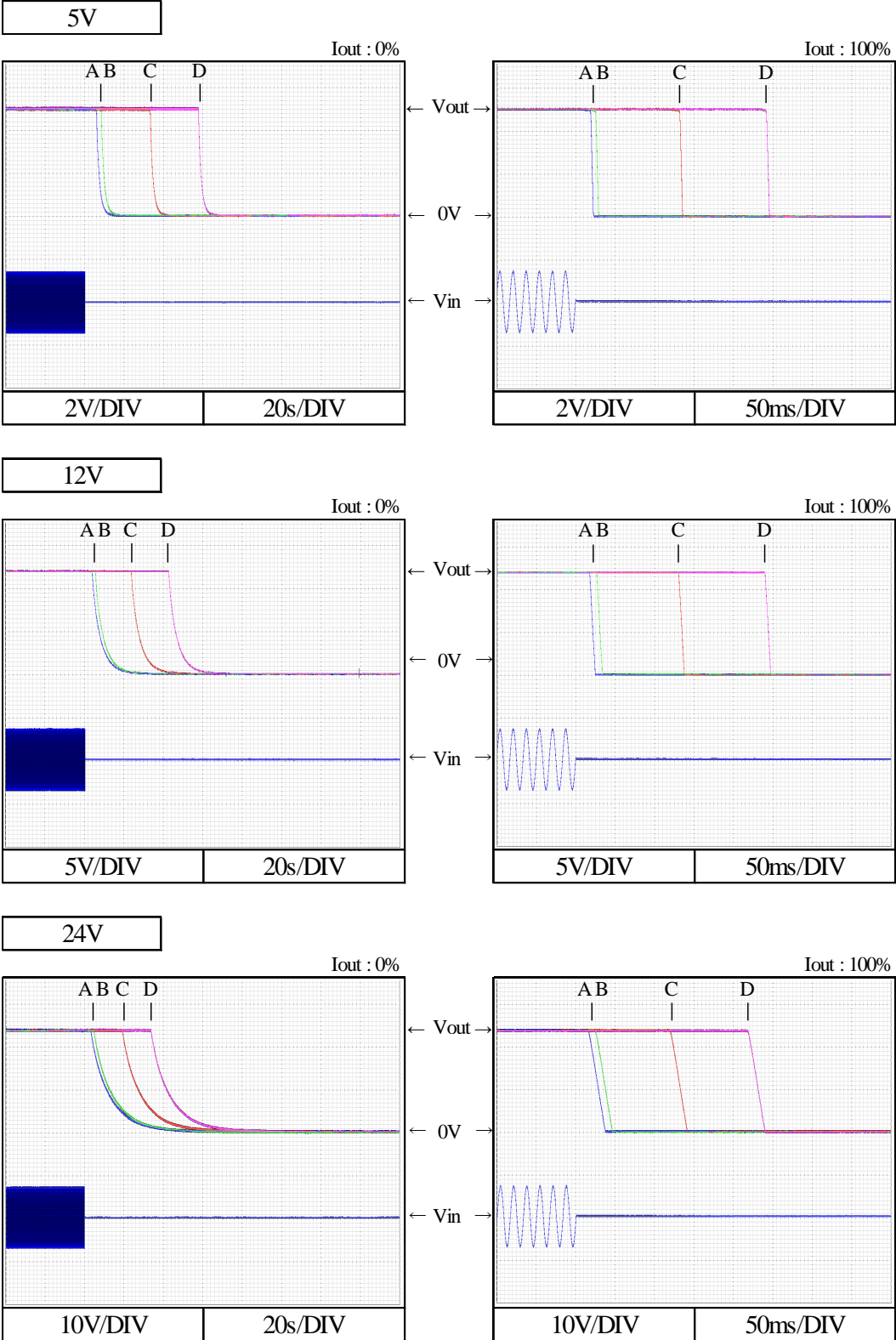
2-4. 出力立ち上がり特性 Output rise characteristics

Conditions Vin : 85 VAC (A) — blue —
100 VAC (B) — green —
200 VAC (C) — red —
265 VAC (D) — magenta —
Ta : 25 °C






2-5. 出力立ち下がり特性 Output fall characteristics

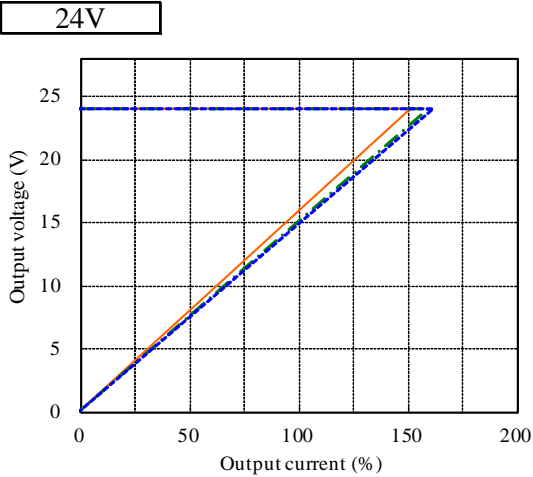
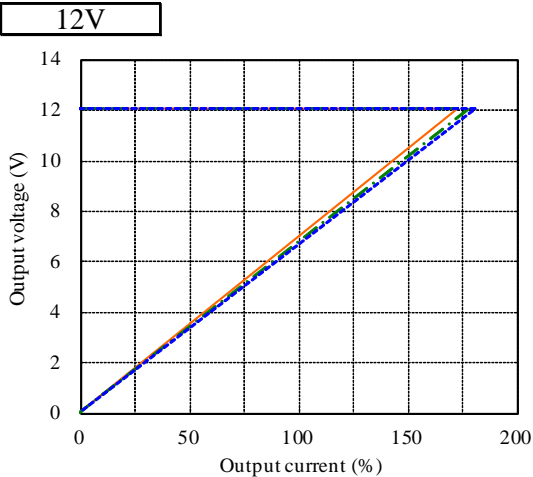
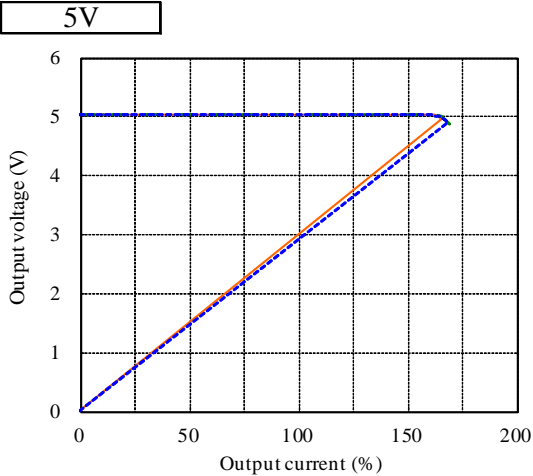
Conditions Vin : 85 VAC (A) —
100 VAC (B) —
200 VAC (C) —
265 VAC (D) —
Ta : 25 °C



2-6. 過電流保護特性

Over current protection (OCP) characteristics

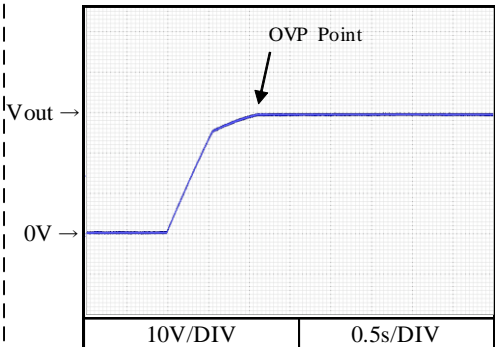
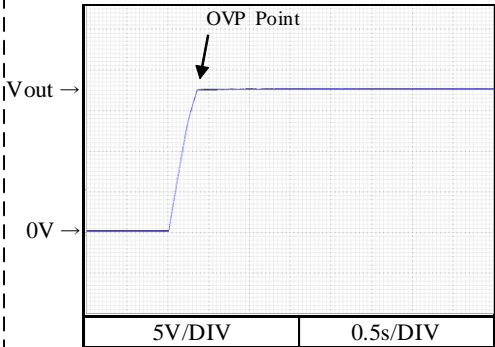
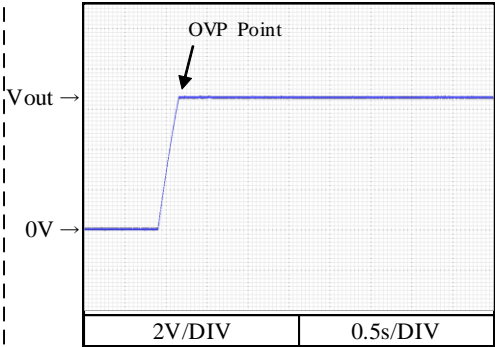
Conditions V_{in} : 100 VAC
 T_a : -10 °C 
 25 °C 
 55 °C 



2-7. 過電壓保護特性

Over voltage protection (OVP) characteristics

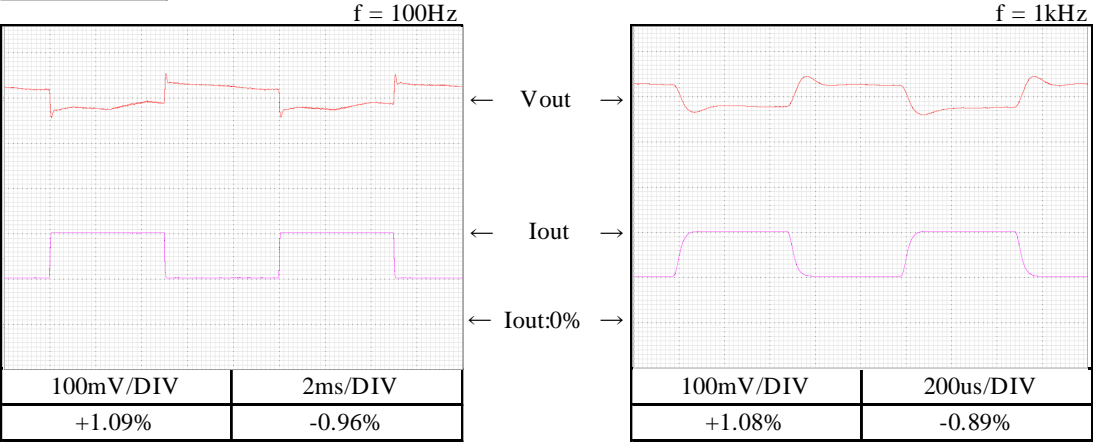
Conditions V_{in} : 100 VAC
 I_{out} : 0 %
 T_a : 25 °C



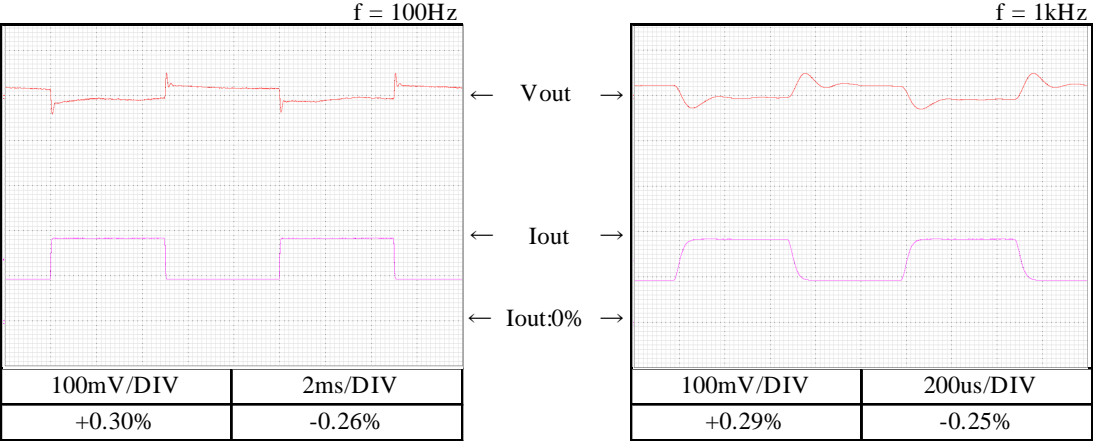
2-8. 過渡応答(負荷急変)特性 Dynamic load response characteristics

Conditions Vin : 100 VAC
Iout : 50 % ↔ 100 %
(tr = tf = 50us)
Ta : 25 °C

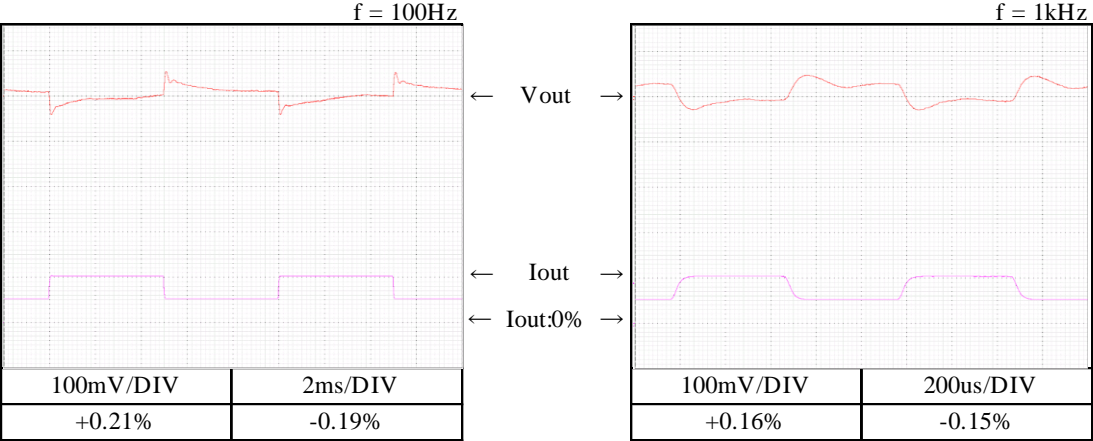
5V



12V



24V

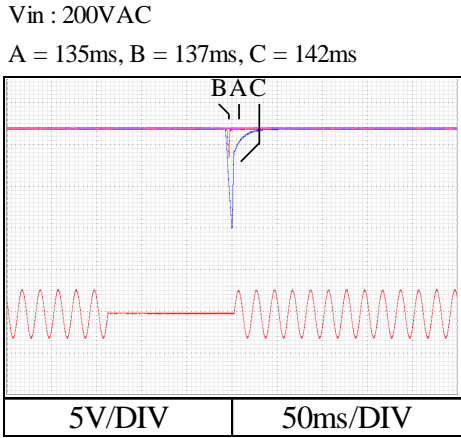
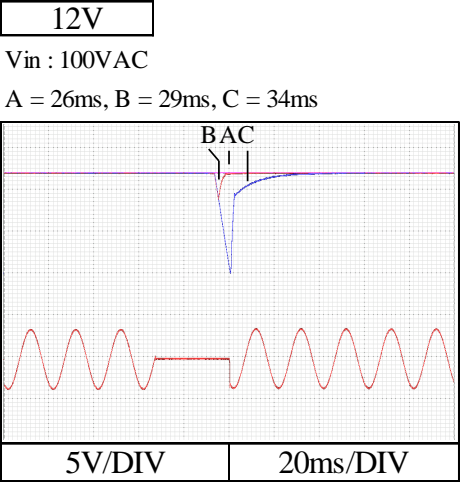
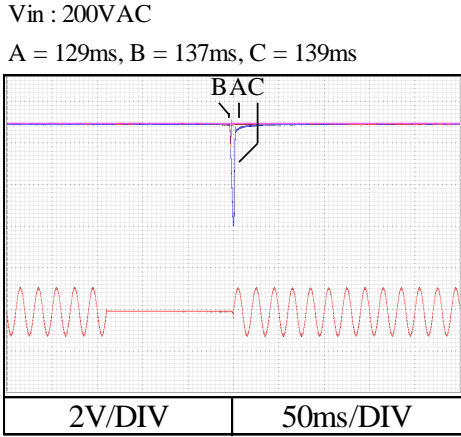
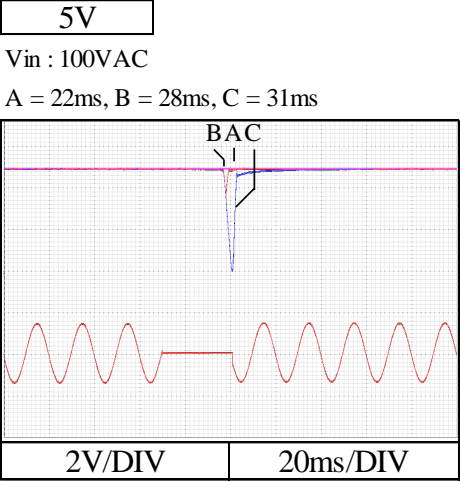


2-9. 入力電圧瞬停特性 Response to brown out characteristics

Conditions Ta : 25 °C
Iout : 100 %

瞬停時間 Interruption time

- A : 出力電圧が低下なし Output voltage does not drop.
- B : 出力電圧が0Vまで低下しない Output voltage drop down not reaching 0V.
- C : 出力電圧が0Vまで低下 Output voltage drops until 0V.



Conditions Ta : 25 °C

Iout : 100 %

瞬停時間 Interruption time

A : 出力電圧が低下なし

Output voltage does not drop.

B : 出力電圧が0Vまで低下しない

Output voltage drop down not reaching 0V.

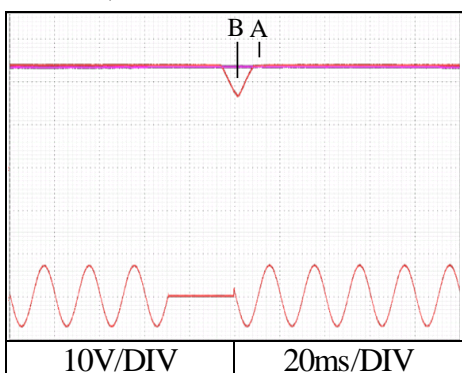
C : 出力電圧が0Vまで低下

Output voltage drops until 0V.

24V

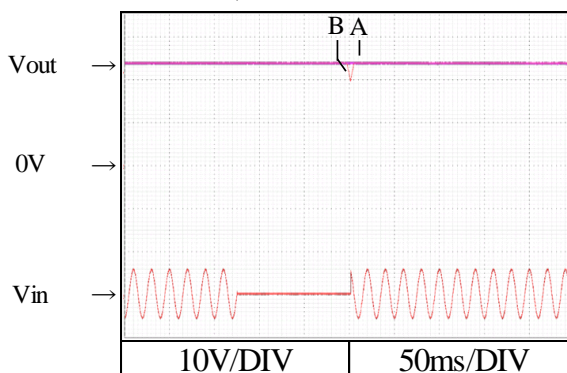
Vin : 100VAC

A = 23ms, B = 29ms



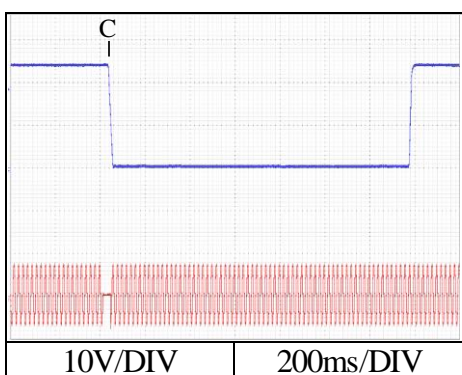
Vin : 200VAC

A = 119ms, B = 127ms



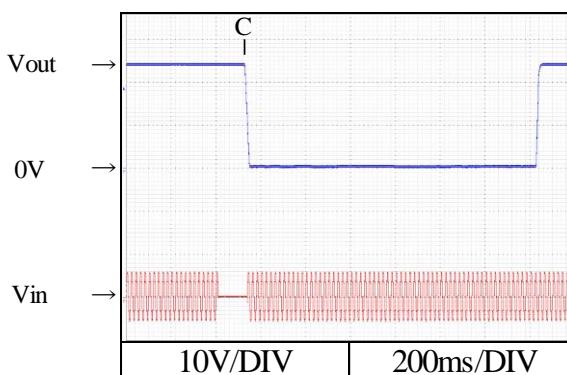
Vin : 100VAC

C = 31ms



Vin : 200VAC

C = 129ms



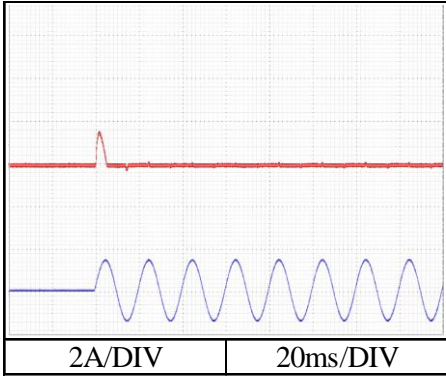
2-10. 入力サージ電流(突入電流)波形 Inrush current waveform

24V

Conditions Vin : 100 VAC
Iout : 100 %
Ta : 25°C

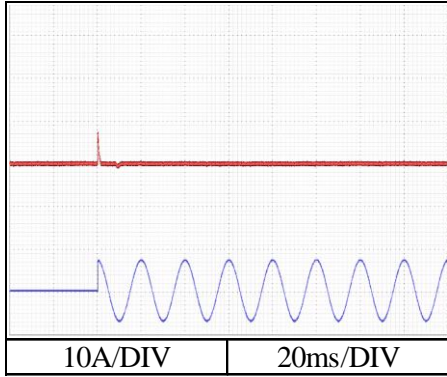
Switch on phase angle of input AC voltage

$\phi = 0^\circ$



Switch on phase angle of input AC voltage

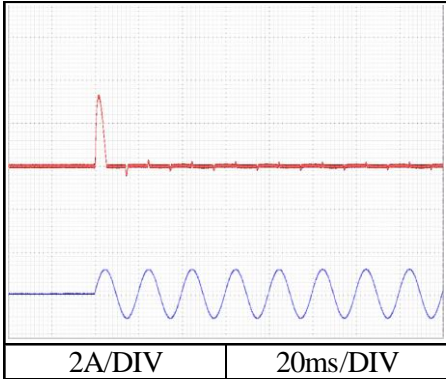
$\phi = 90^\circ$



Conditions Vin : 200 VAC
Iout : 100 %
Ta : 25°C

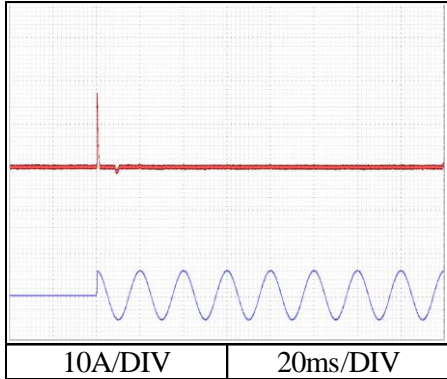
Switch on phase angle of input AC voltage

$\phi = 0^\circ$



Switch on phase angle of input AC voltage

$\phi = 90^\circ$

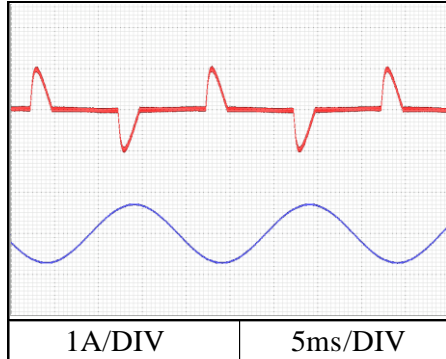


2-11. 入力電流波形 Input current waveform

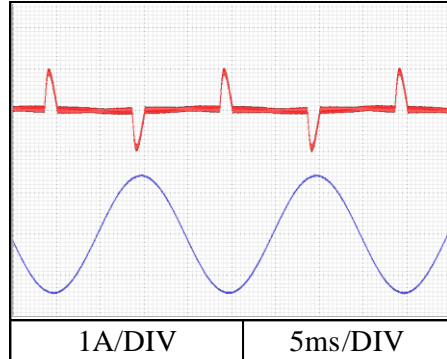
24V

Conditions Iout : 100
Ta : 25°C

Vin : 100VAC



Vin : 200VAC

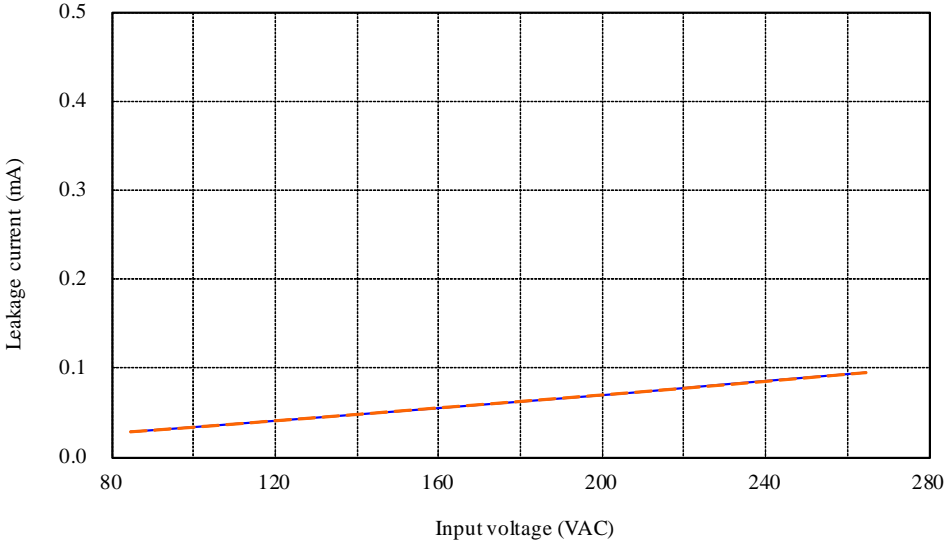


2-12. リーク電流特性 Leakage current characteristics

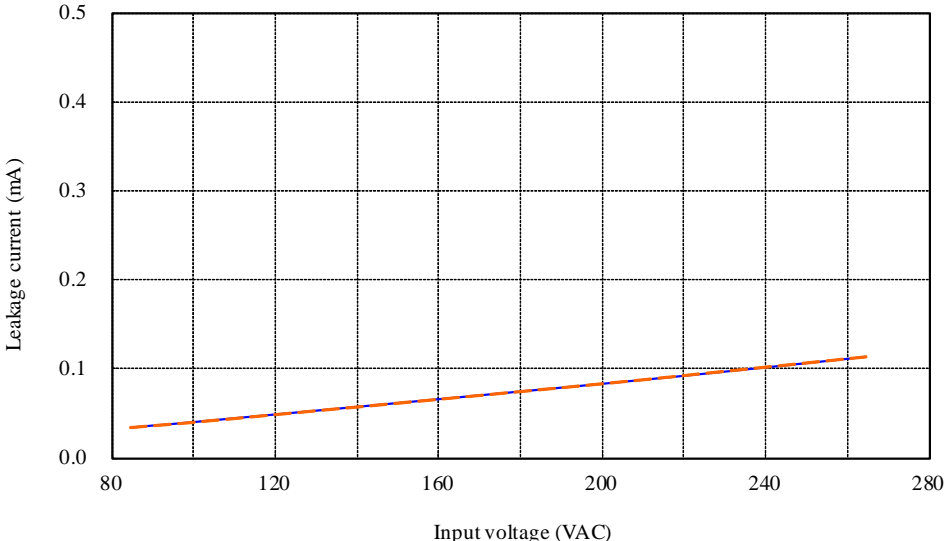
Conditions Iout : 0 % ———
 100 % - - - -
 Ta : 25°C
Equipment used : 7611(EXTECH)

24V

f : 50 Hz



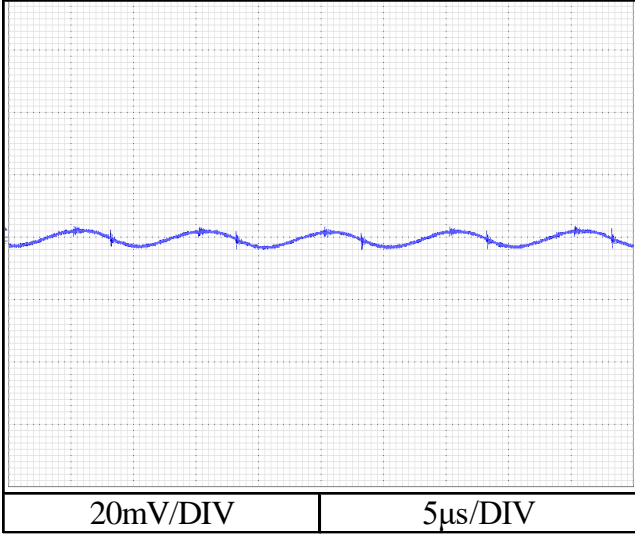
f : 60 Hz



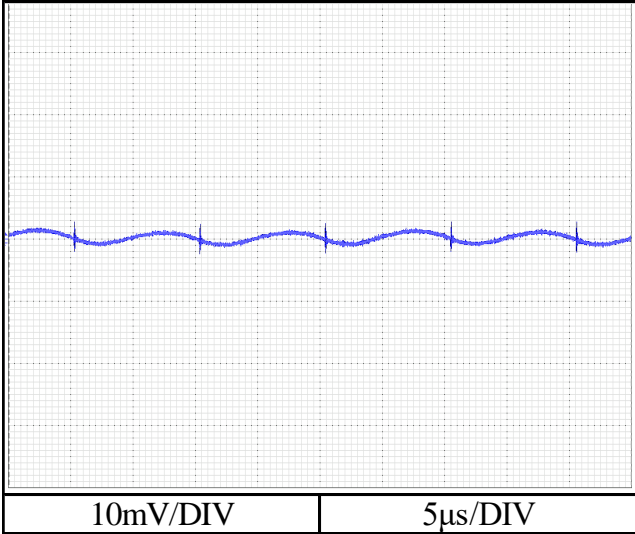
2-13. 出力リップル、ノイズ波形 Output ripple and noise waveform

Conditions Vin : 100 VAC
Iout : 100 %
Ta : 25°C

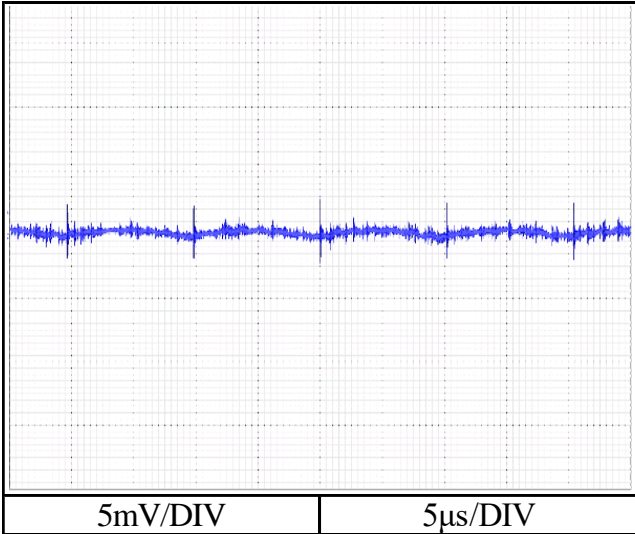
5V



12V



24V



2-14. EMI特性 Electro-Magnetic Interference characteristics

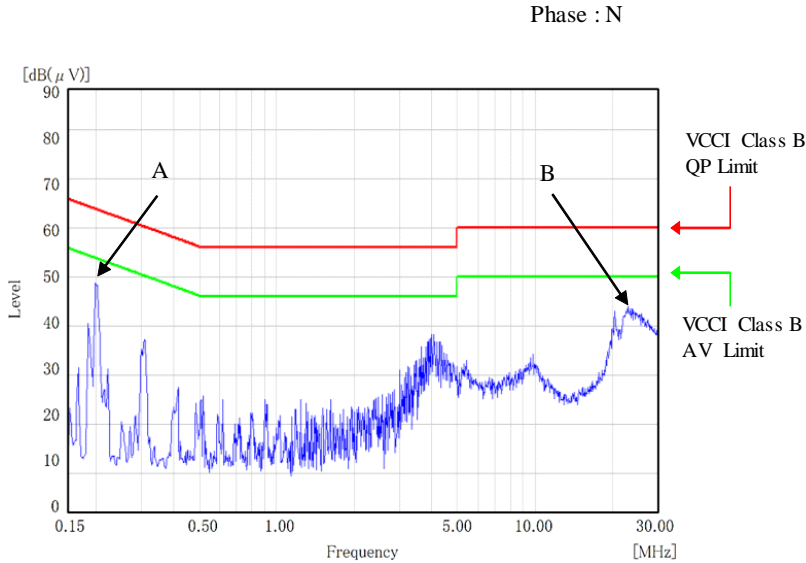
Conditions Vin : 100 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class I (L,N,FG)

雑音端子電圧
 Conducted Emission

5V

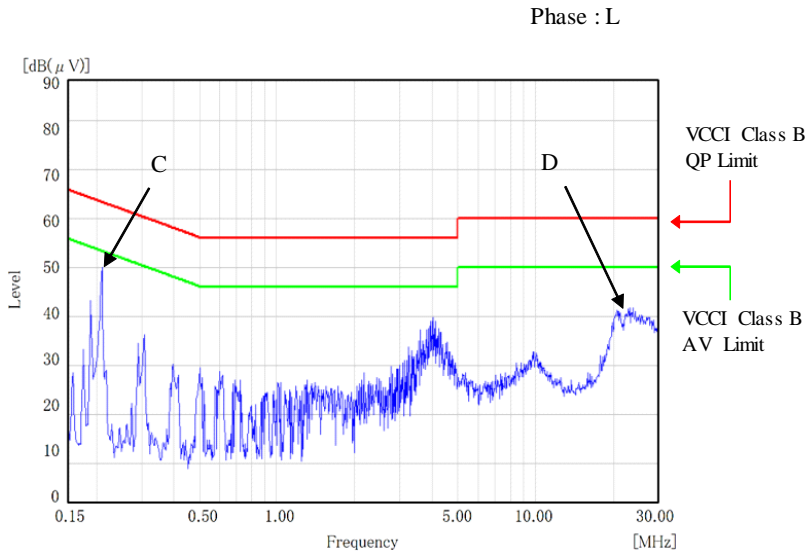
Point A (198KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.7	48.1
AV	53.7	34.8

Point B (22MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	38.2
AV	50.0	29.1



Point C (210KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.2	44.6
AV	53.2	26.5

Point D (23MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	36.2
AV	50.0	27.1



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.
 表示はピーク値
 Indication is peak values.

Conditions Vin : 100 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class I (L,N,FG)

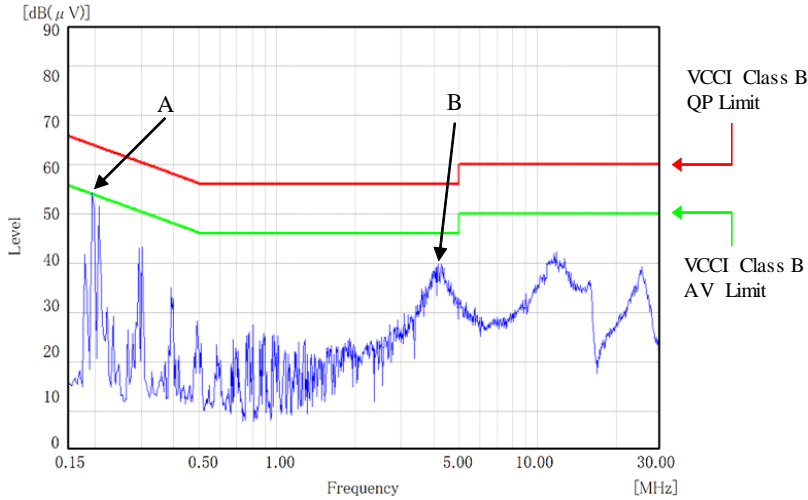
雑音端子電圧
 Conducted Emission

12V

Point A (194KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.9	52.8
AV	53.9	38.0

Point B (4.2MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	33.9
AV	46.0	15.7

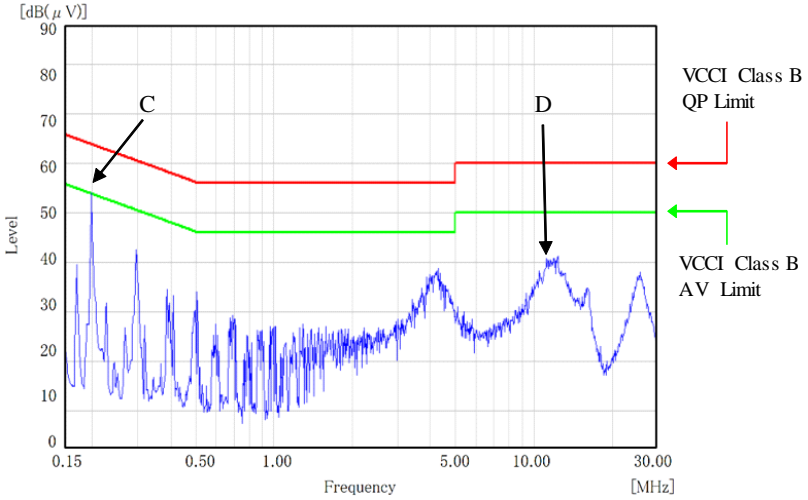
Phase : N



Point C (198KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.7	53.9
AV	53.7	40.5

Point D (11MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	35.5
AV	50.0	24.5

Phase : L



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.
 表示はピーク値
 Indication is peak values.

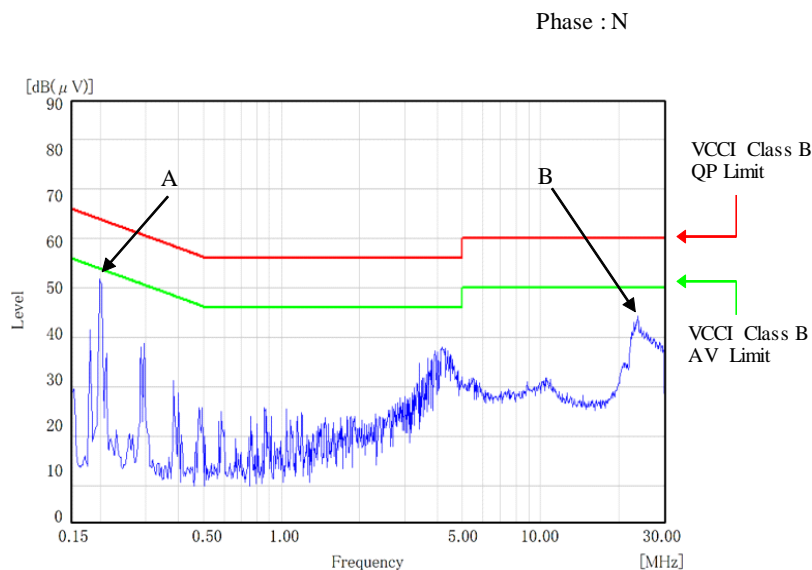
Conditions Vin : 100 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class I (L,N,FG)

雑音端子電圧
 Conducted Emission

24V

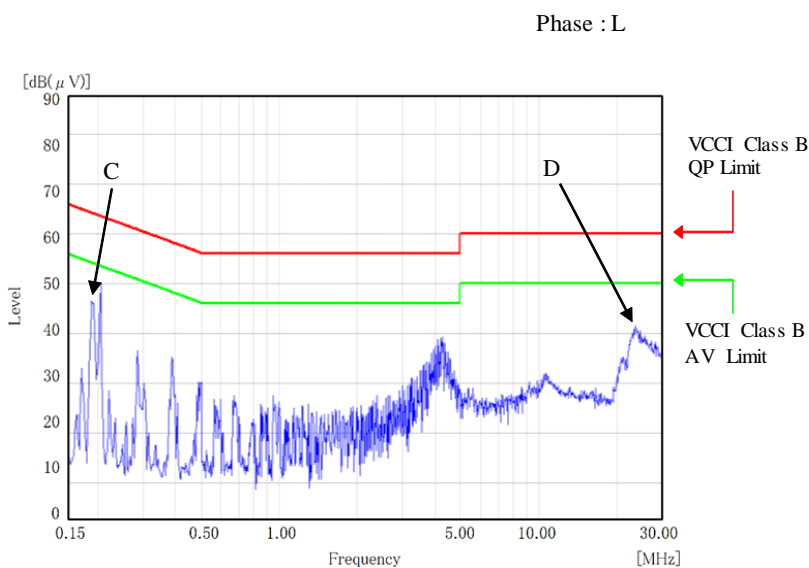
Point A (198KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.7	49.9
AV	53.7	36.0

Point B (23MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	37.4
AV	50.0	28.6



Point C (190KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	64.0	51.7
AV	54.0	35.5

Point D (23MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	35.6
AV	50.0	27.0



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.

表示はピーク値

Indication is peak values.

Conditions Vin : 230 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class I (L,N,FG)

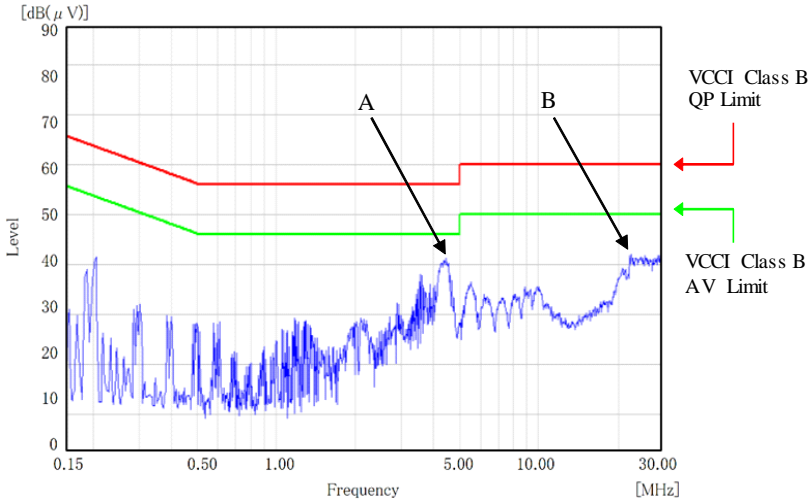
雑音端子電圧
 Conducted Emission

5V

Point A (4.4MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	36.6
AV	46.0	18.8

Point B (22MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	35.9
AV	50.0	26.6

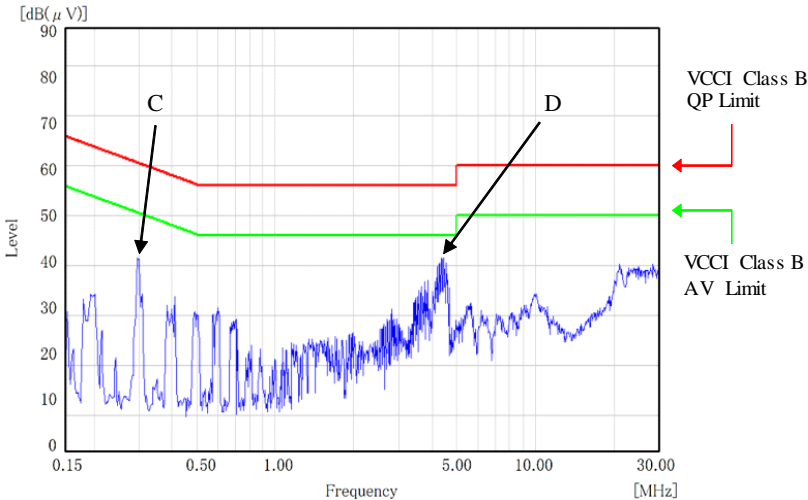
Phase : N



Point C (294KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.4	37.9
AV	50.4	25.9

Point D (4.4MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	36.5
AV	46.0	17.6

Phase : L



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.
 表示はピーク値
 Indication is peak values.

Conditions Vin : 230 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class I (L,N,FG)

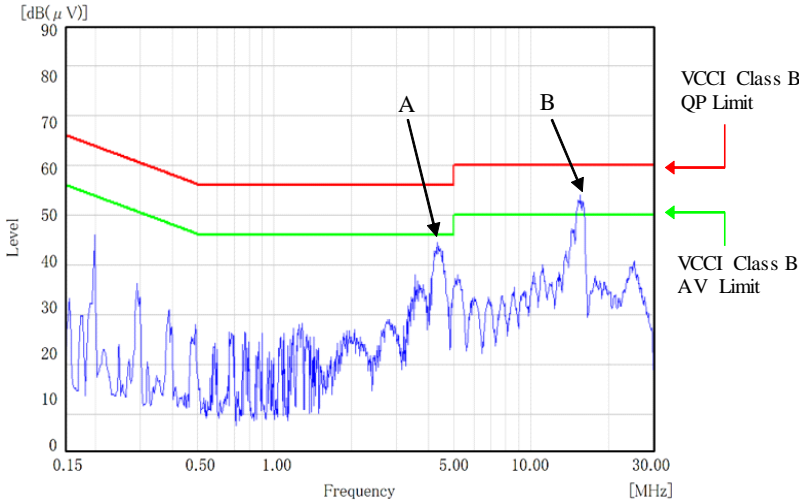
雑音端子電圧
 Conducted Emission

12V

Point A (4.3MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	39.3
AV	46.0	21.1

Point B (15.6MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	47.2
AV	50.0	35.3

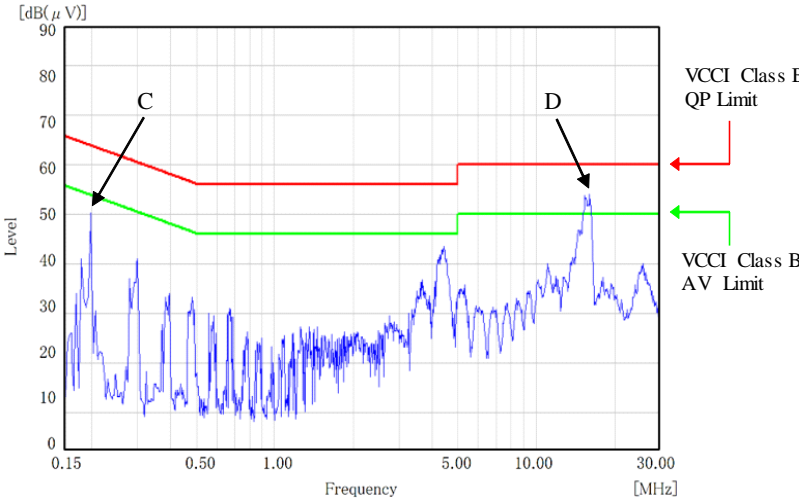
Phase : N



Point C (198KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.7	46.7
AV	53.7	30.1

Point D (16MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	48.5
AV	50.0	35.8

Phase : L



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.
 表示はピーク値
 Indication is peak values.

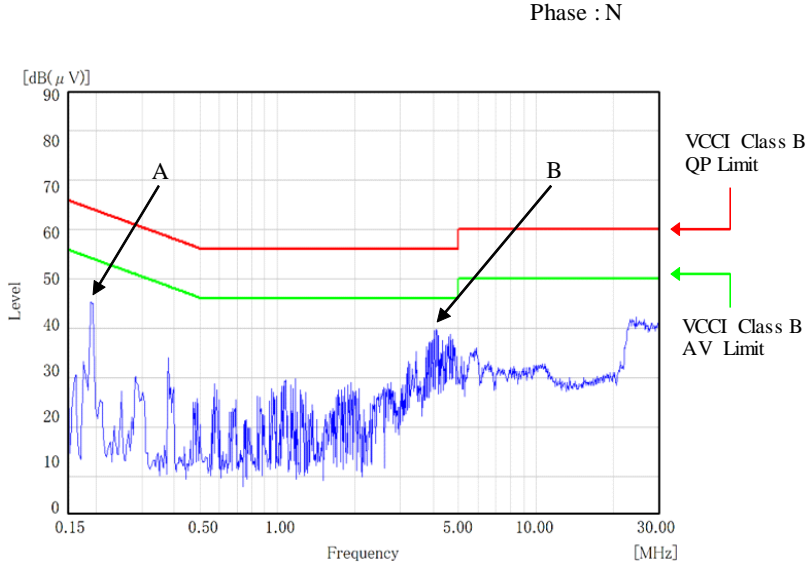
Conditions Vin : 230 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class I (L,N,FG)

雑音端子電圧
 Conducted Emission

24V

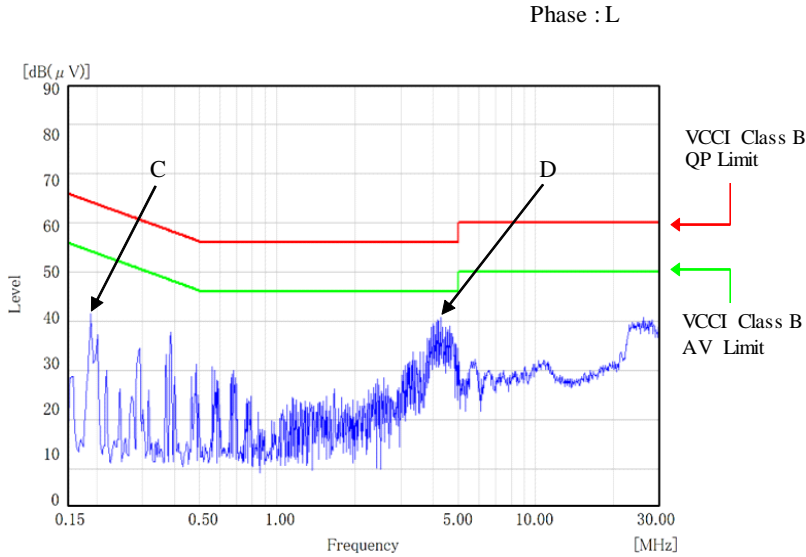
Point A (190KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	64.0	44.9
AV	54.0	29.8

Point B (4.1MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	34.1
AV	46.0	16.1



Point C (190KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	64.0	46.9
AV	54.0	31.0

Point D (4.1MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	35.2
AV	46.0	15.9



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.
 表示はピーク値
 Indication is peak values.

Conditions Vin : 100 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class II (L,N)

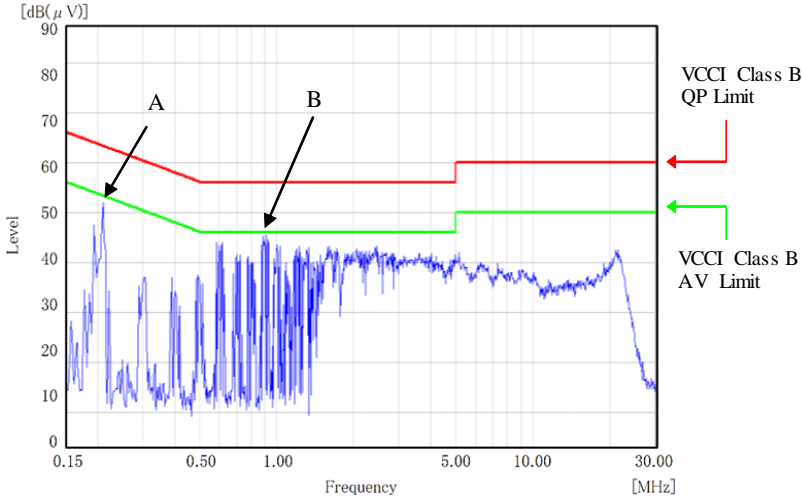
雑音端子電圧
 Conducted Emission

5V

Point A (210KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.2	46.0
AV	53.2	28.5

Point B (918KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	43.1
AV	46.0	28.6

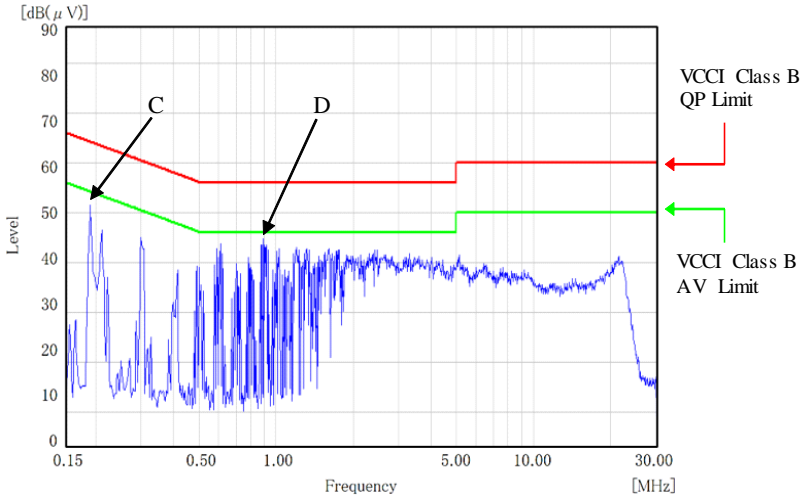
Phase : N



Point C (190KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	64.0	46.1
AV	54.0	26.1

Point D (890KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	42.8
AV	46.0	28.0

Phase : L



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.
 表示はピーク値
 Indication is peak values..

Conditions Vin : 100 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class II (L,N)

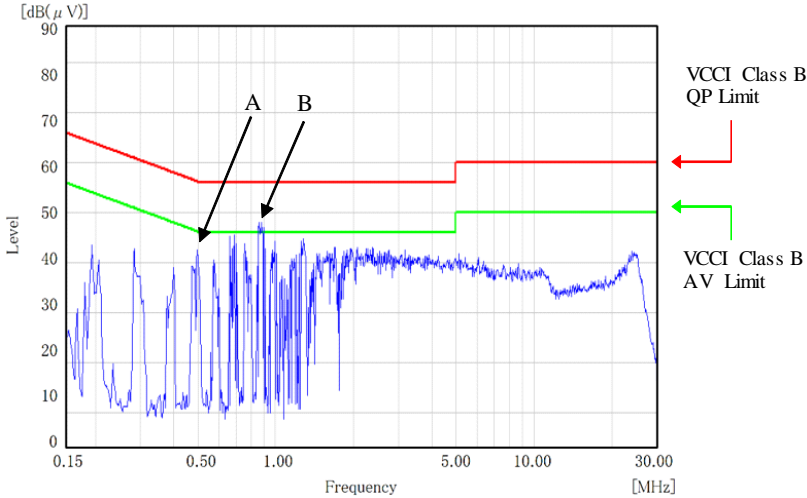
雑音端子電圧
 Conducted Emission

12V

Point A (498KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	40.6
AV	46.0	31.0

Point B (866KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	45.6
AV	46.0	32.0

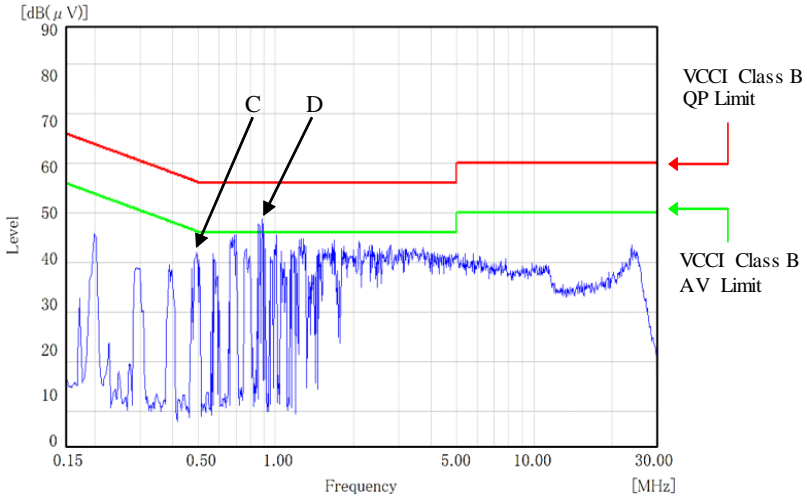
Phase : N



Point C (494KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.1	41.4
AV	46.1	32.1

Point D (858KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	46.7
AV	46.0	31.0

Phase : L



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.
 表示はピーク値
 Indication is peak values.

Conditions Vin : 100 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class II (L,N)

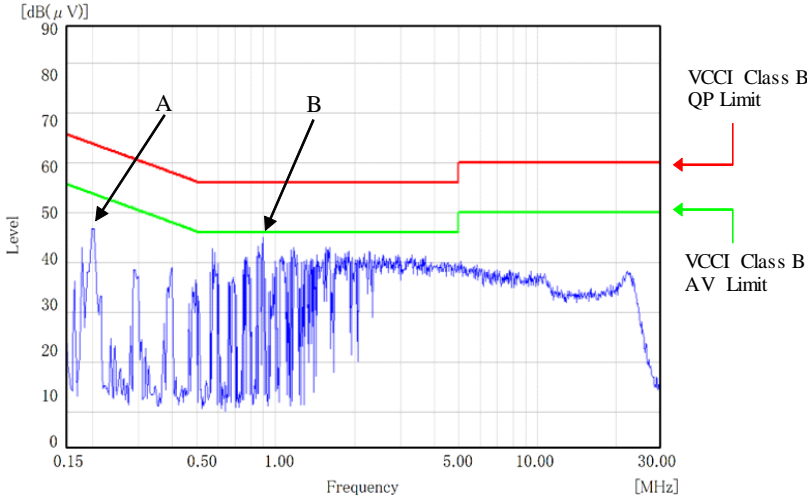
雑音端子電圧
 Conducted Emission

24V

Point A (198KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.7	51.3
AV	53.7	38.9

Point B (890KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	42.1
AV	46.0	27.0

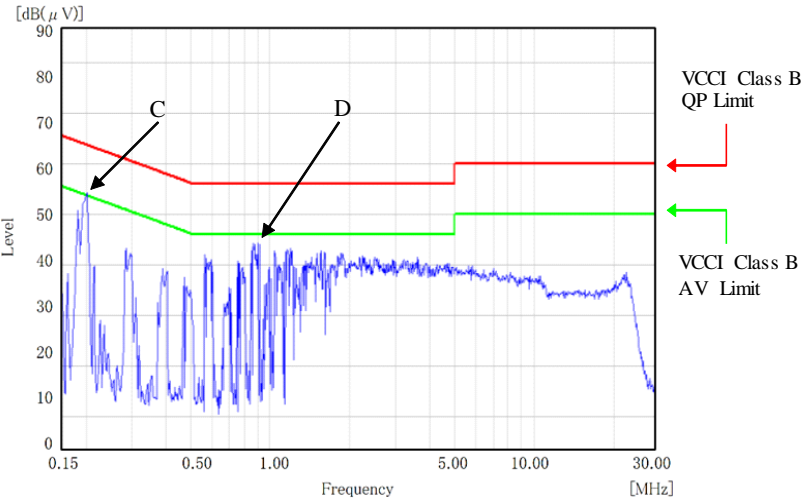
Phase : N



Point C (202KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.5	49.8
AV	53.5	33.7

Point D (902KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	41.3
AV	46.0	25.8

Phase : L



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.
 表示はピーク値
 Indication is peak values.

Conditions Vin : 230 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class II (L,N)

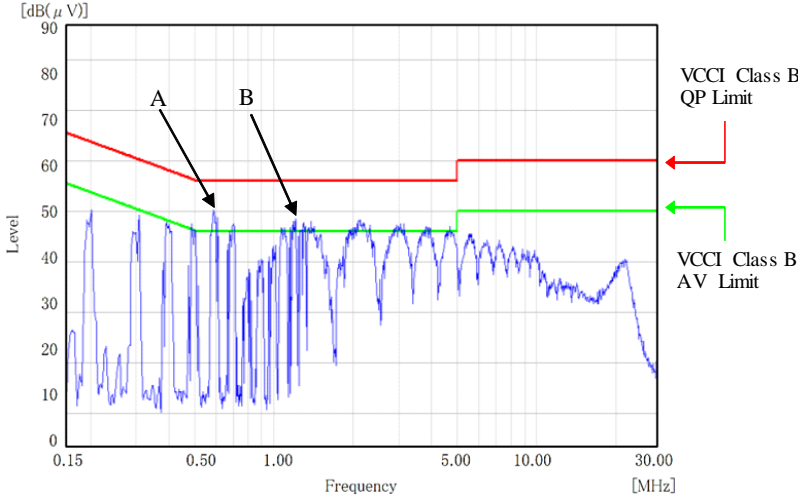
雑音端子電圧
 Conducted Emission

5V

Point A (590KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	48.0
AV	46.0	37.4

Point B (1.2MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	46.6
AV	46.0	30.7

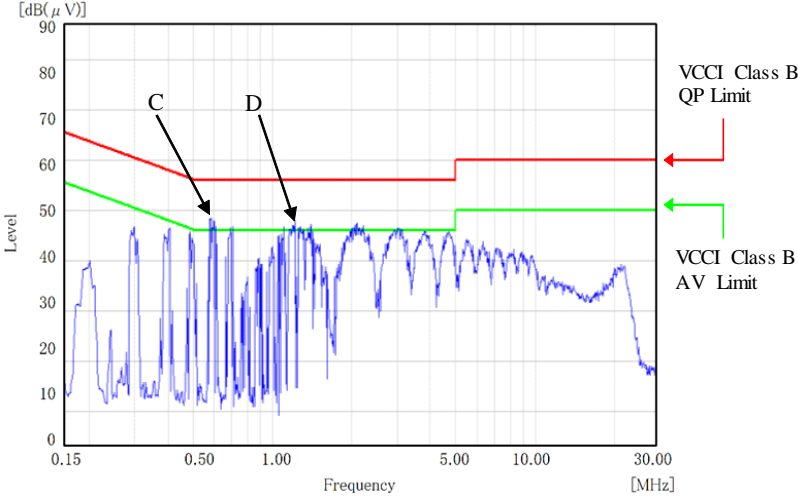
Phase : N



Point C (582KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	46.6
AV	46.0	35.4

Point D (1.2MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	45.9
AV	46.0	27.0

Phase : L



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.
 表示はピーク値
 Indication is peak values.

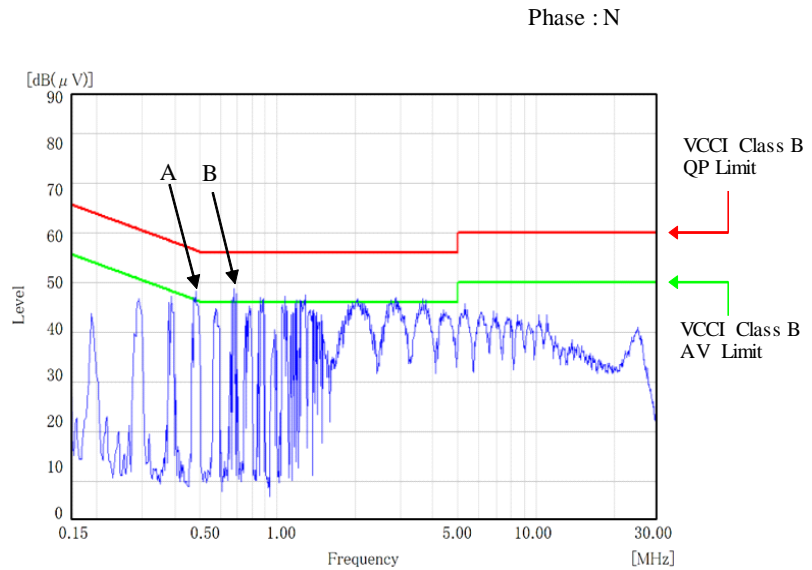
Conditions Vin : 230 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class II (L,N)

雑音端子電圧
 Conducted Emission

12V

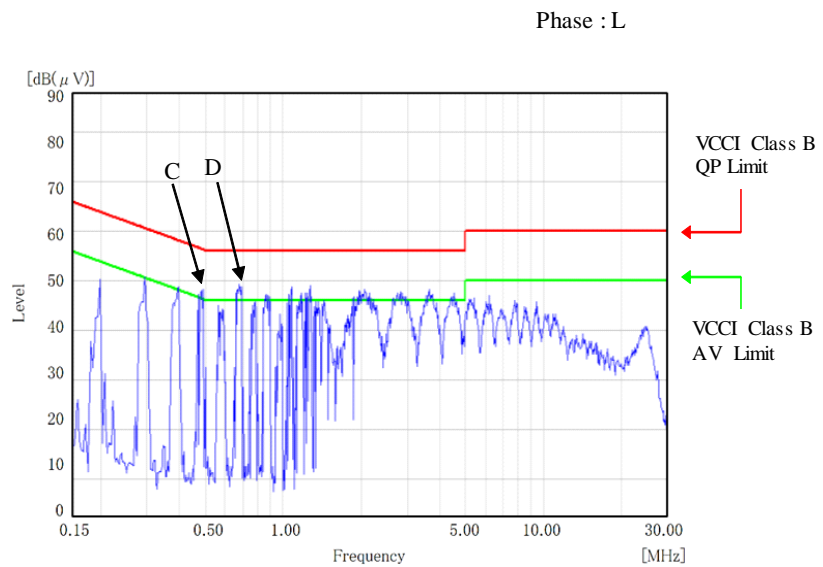
Point A (482KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.3	46.1
AV	46.3	37.8

Point B (690KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	47.0
AV	46.0	33.3



Point C (494KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.1	47.6
AV	46.1	34.9

Point D (682KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	43.8
AV	46.0	34.2



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ

Limit of EN55011-B,EN55032-B are same as its VCCI class B.

表示はピーク値

Indication is peak values.

Conditions Vin : 230 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class II (L,N)

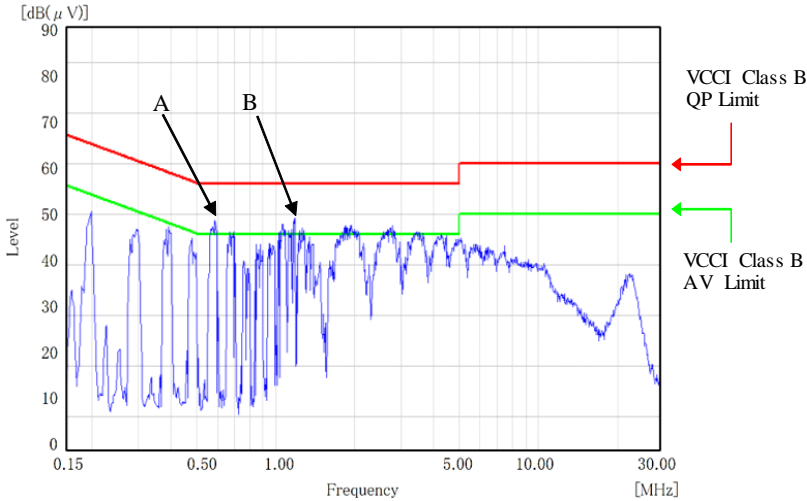
雑音端子電圧
 Conducted Emission

24V

Point A (586KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	46.6
AV	46.0	36.1

Point A (1.2MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	46.5
AV	46.0	30.4

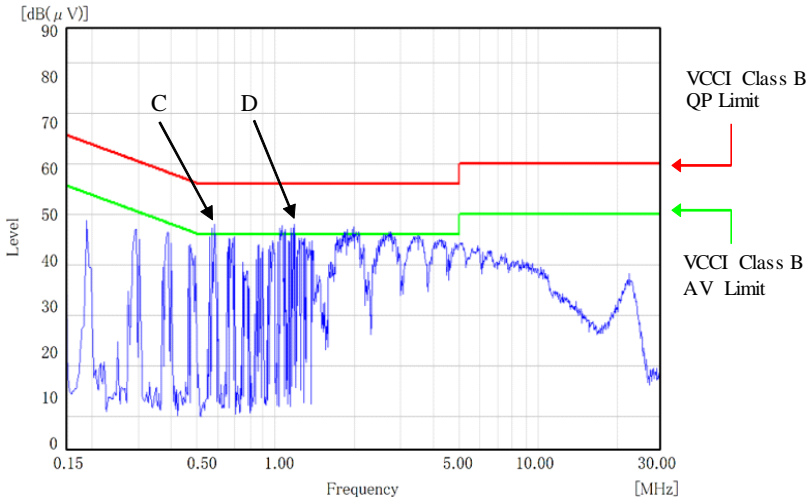
Phase : N



Phase : L

Point C (582KHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	45.6
AV	46.0	35.0

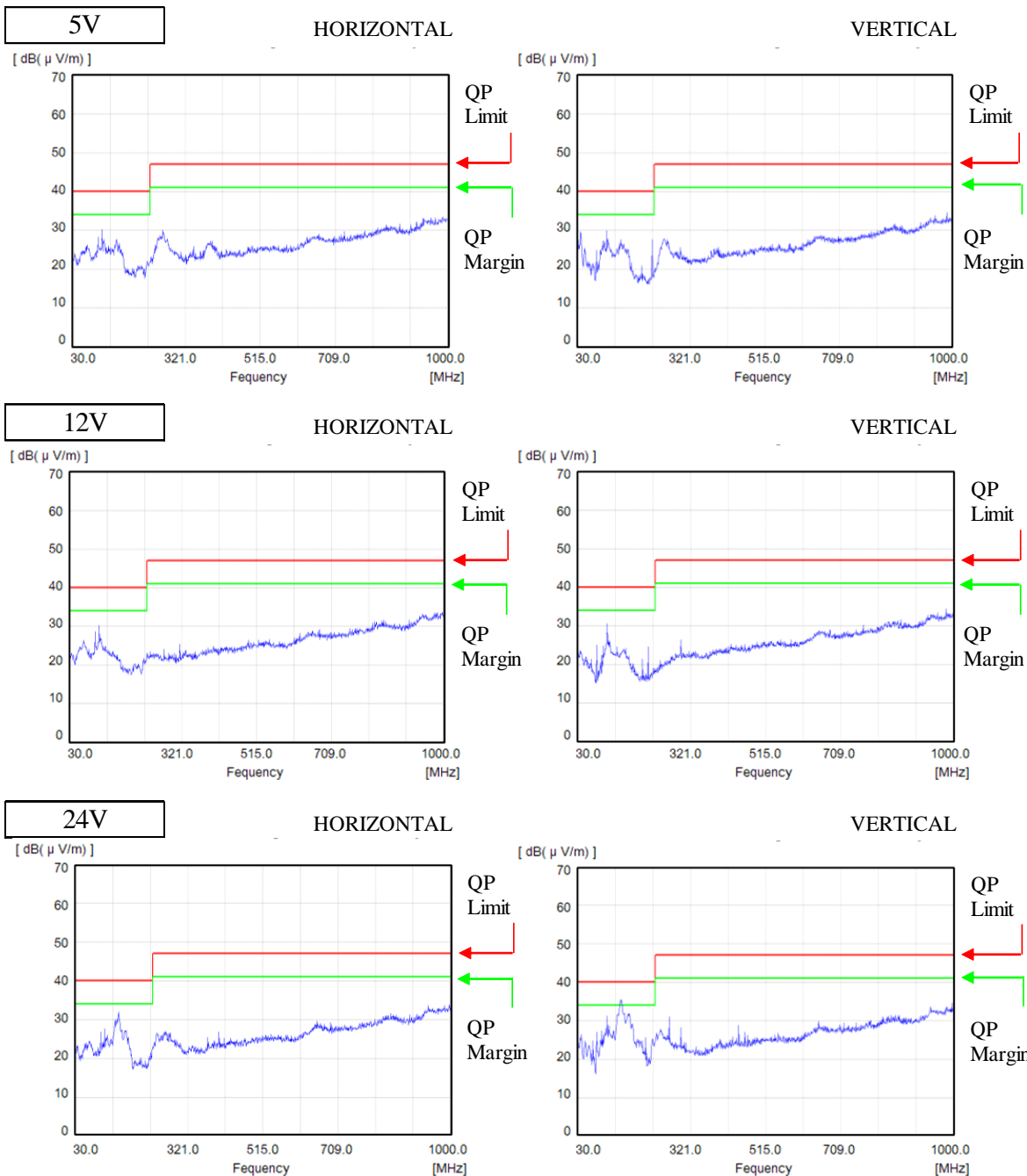
Point B (1.2MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	45.8
AV	46.0	30.5



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.
 表示はピーク値
 Indication is peak values.

Conditions Vin : 100 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class I
 (L,N,FG)

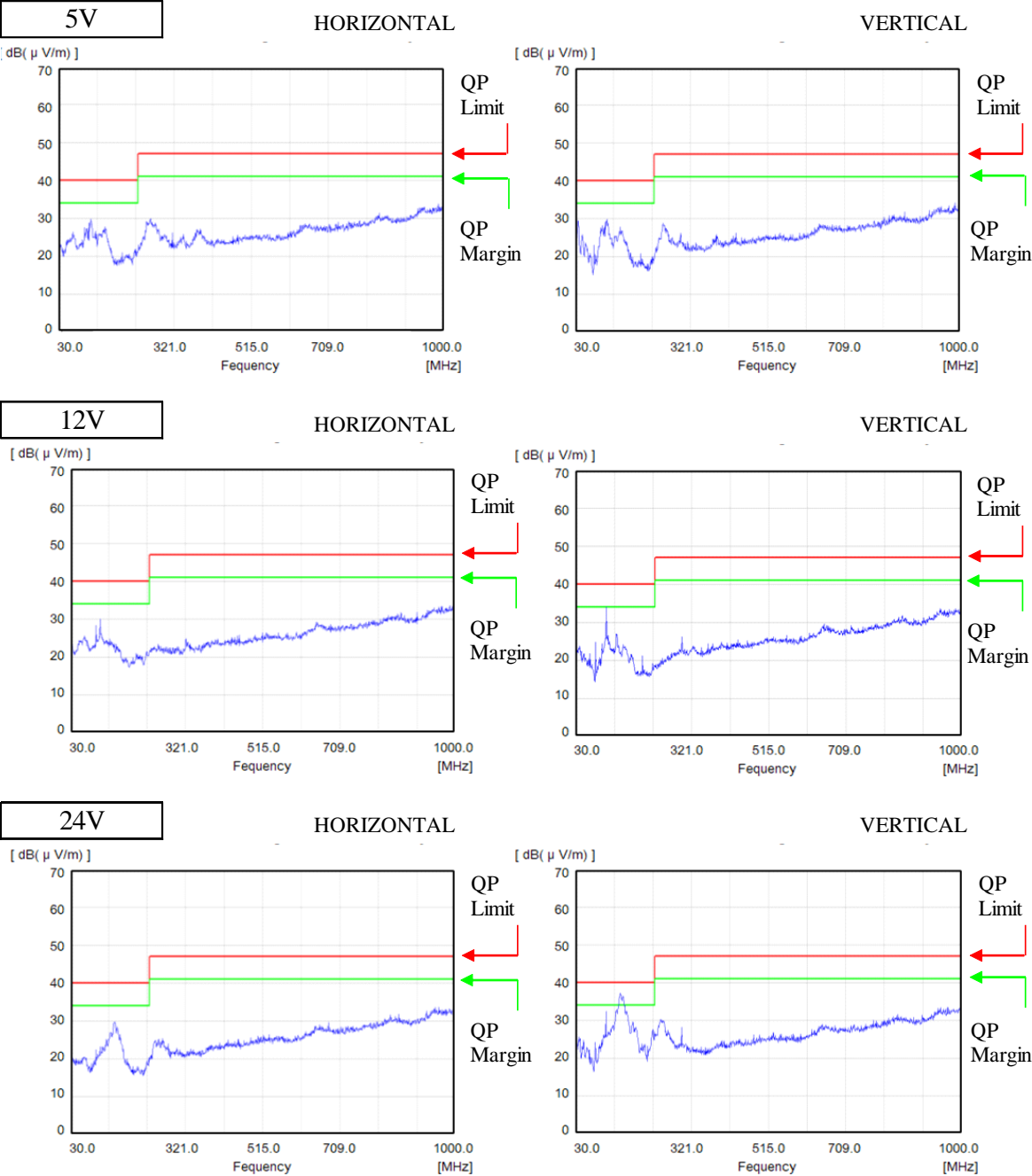
雑音電界強度
 Radiated Emission



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.
 表示はピーク値
 Indication is peak values.

Conditions Vin : 230 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class I
 (L,N,FG)

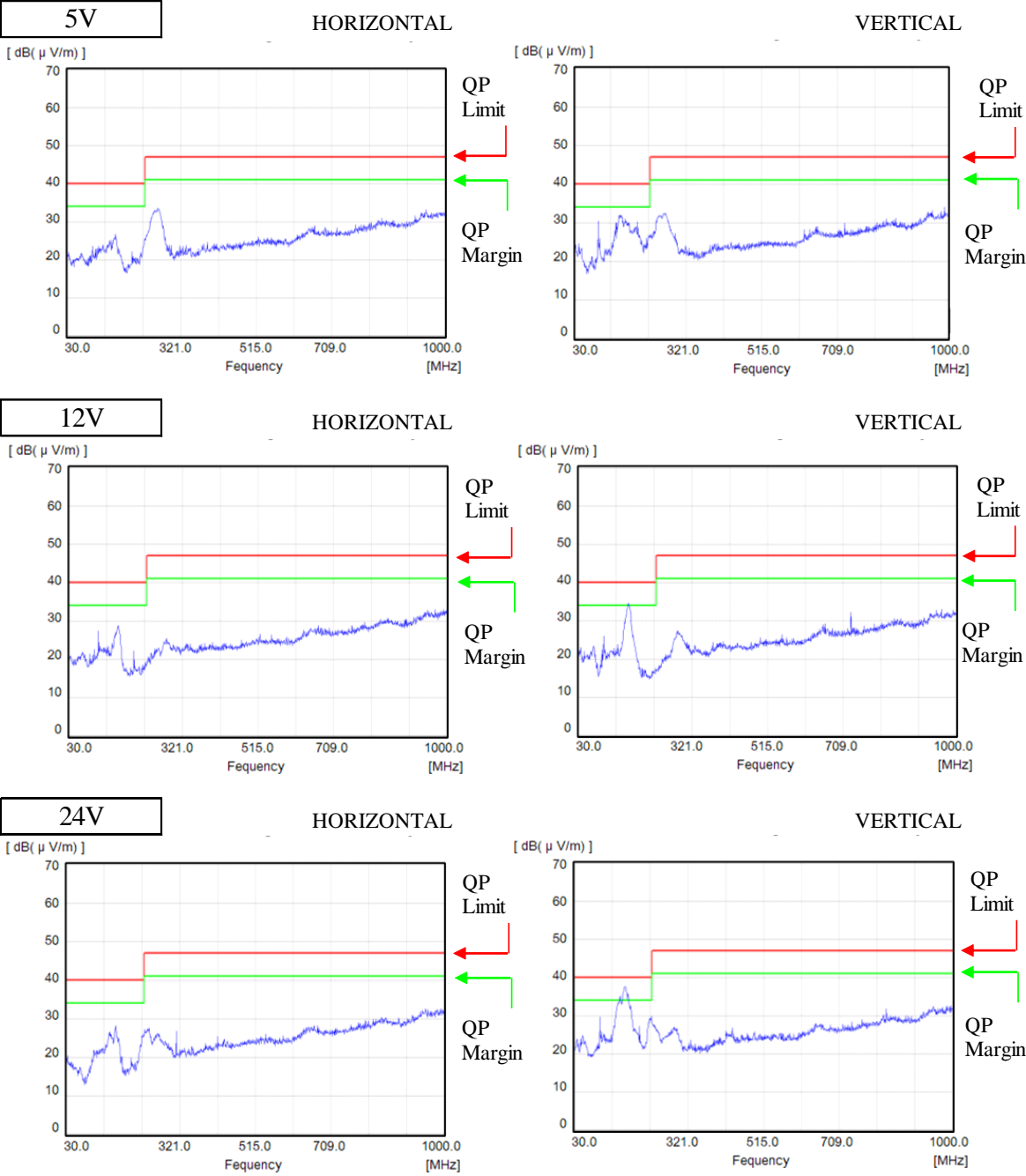
雑音電界強度
 Radiated Emission



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.
 表示はピーク値
 Indication is peak values.

Conditions Vin : 100 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class II
 (L,N)

雑音電界強度
 Radiated Emission

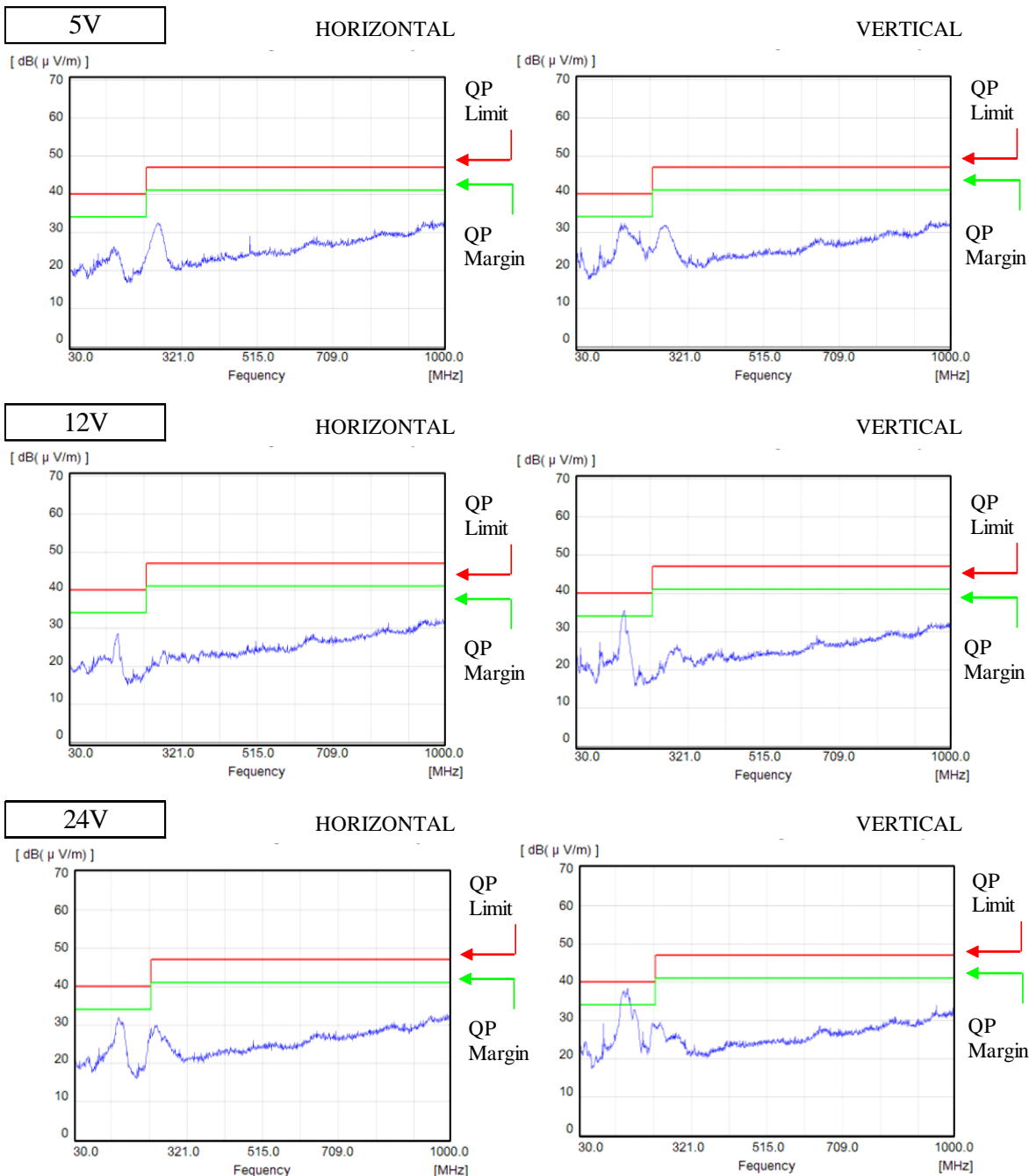


EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.

表示はピーク値
 Indication is peak values.

Conditions Vin : 230 VAC
 Iout : 100 %
 Ta : 25°C
 Isolation Class : Class II
 (L,N)

雑音電界強度
 Radiated Emission



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limit of EN55011-B,EN55032-B are same as its VCCI class B.
 表示はピーク値
 Indication is peak values.