



# Z<sup>+</sup> 600 H.V Series

## EMI DATA

DWG No.: IA798-58-03		
APPD	CHK	DWG
 4/12/14	 4/12/14	Karmi S. Nov-30-14

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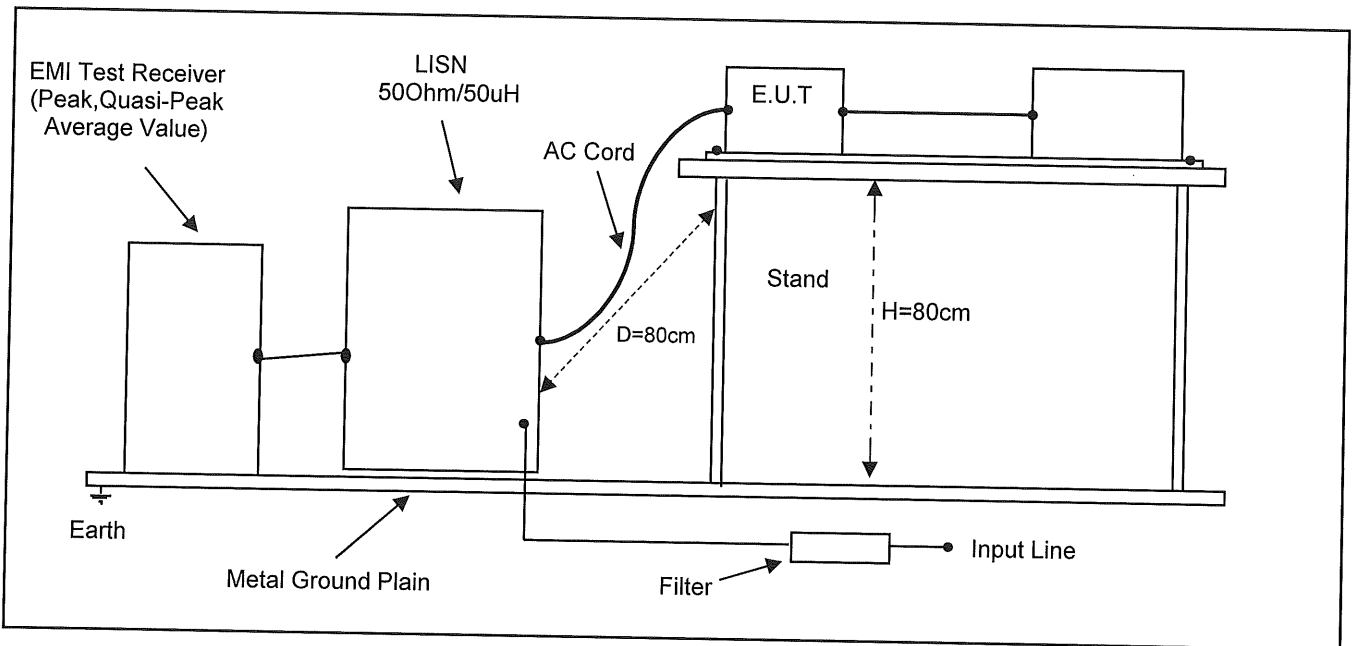
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The above data is typical value data.

The values are considered to be actual capability data.

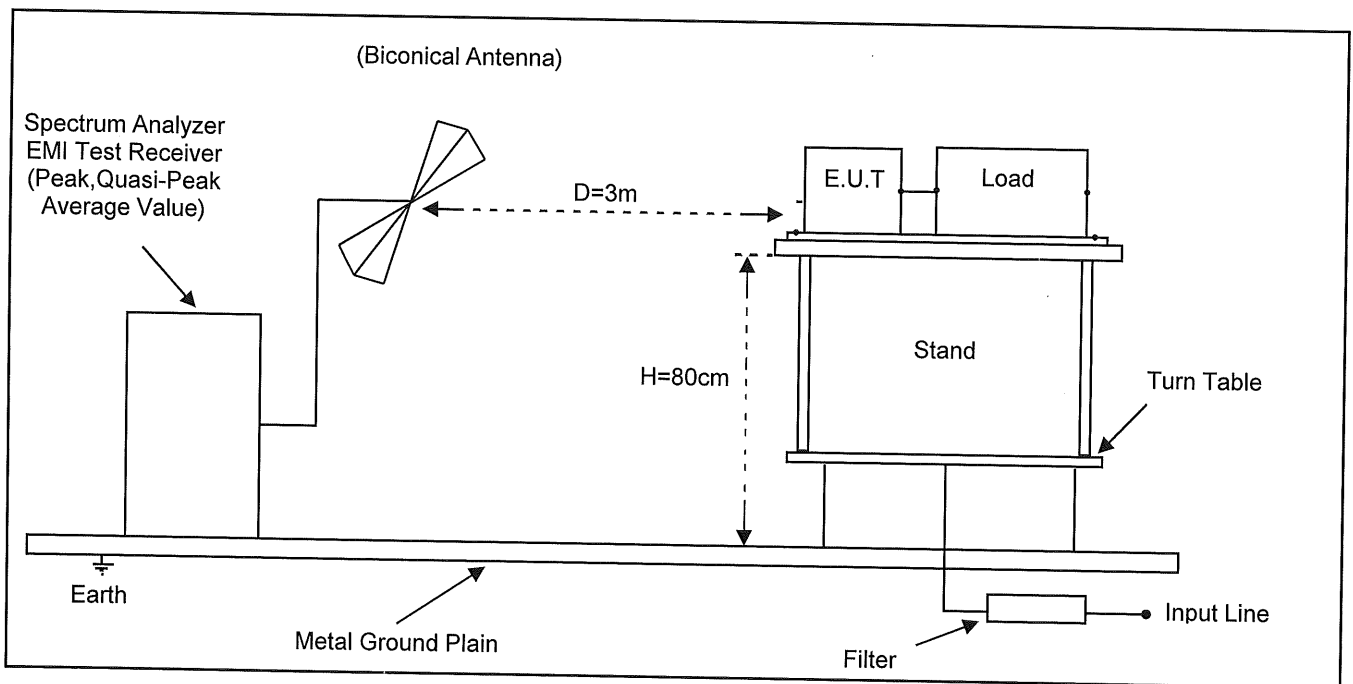
# 1. Test Method

## (1) Conducted Emission



EMI TEST RECEIVER	ESPI	(ROHDE & SCHWARZ)
LISN	ENV4200	(ROHDE & SCHWARZ)

## (2) Radiated Emission



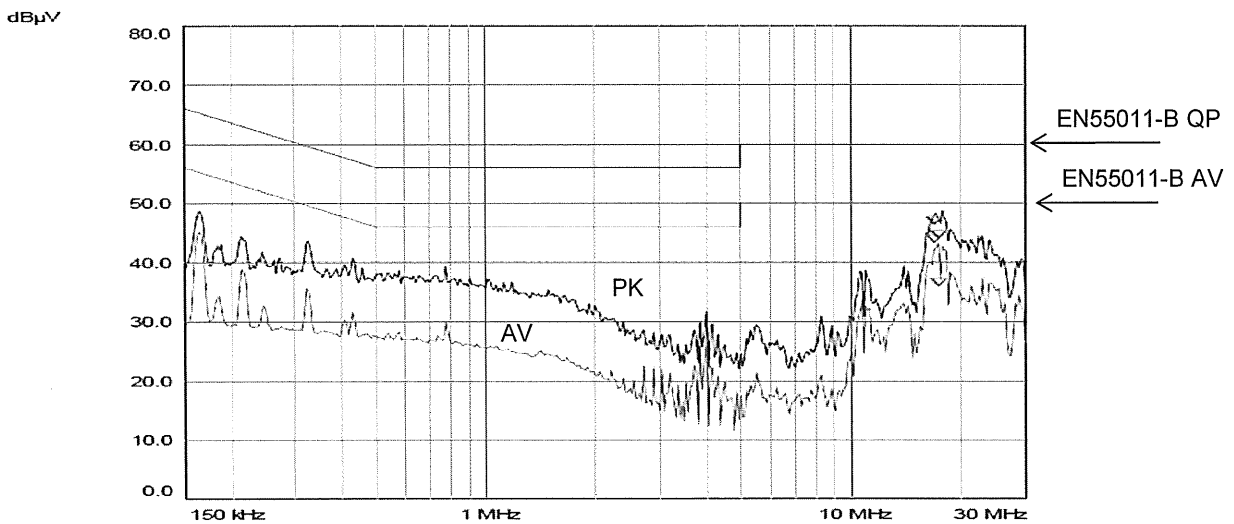
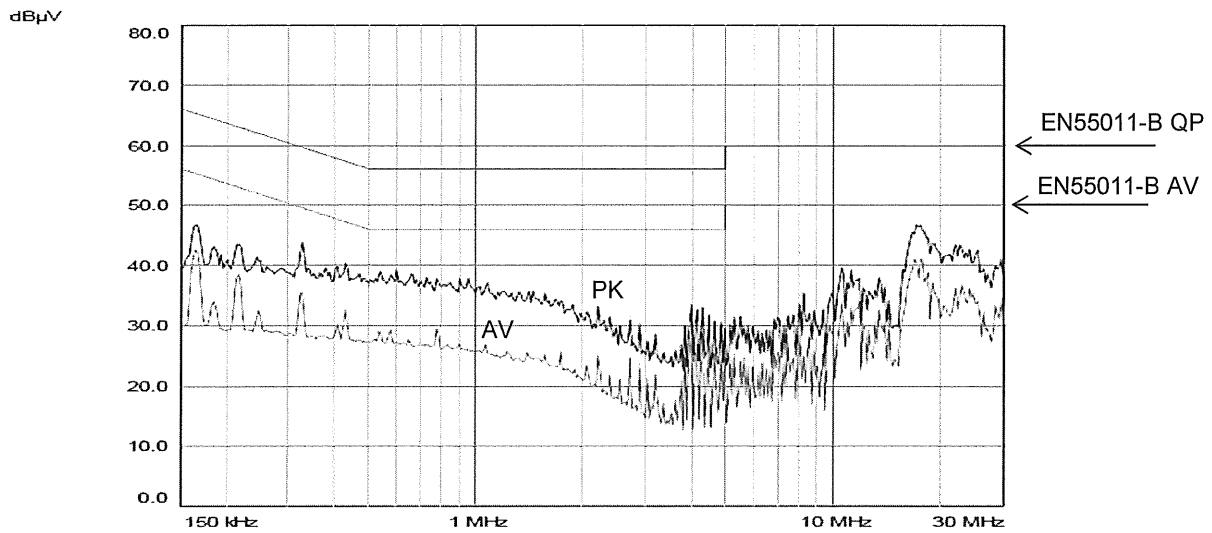
SPECTRUM ANALYZER	MS2601A	(ANRITSU)
EMI TEST RECEIVER	85462A	(HEWLETT. PACKARD)
BICONICAL ANTENNA	3110BA30/200	(EMCO)
LOG-PERIODIC ANTENNA	LP200000	(ELECTROMETRIX)
	LPA2530	(ELECTROMETRIX)

2. Test Data

2.1 Conducted Emission

Conditions: Vin:115Vac  
 Vout: 100%  
 Iout: 100%  
 Ta = 25°C

Z160-4



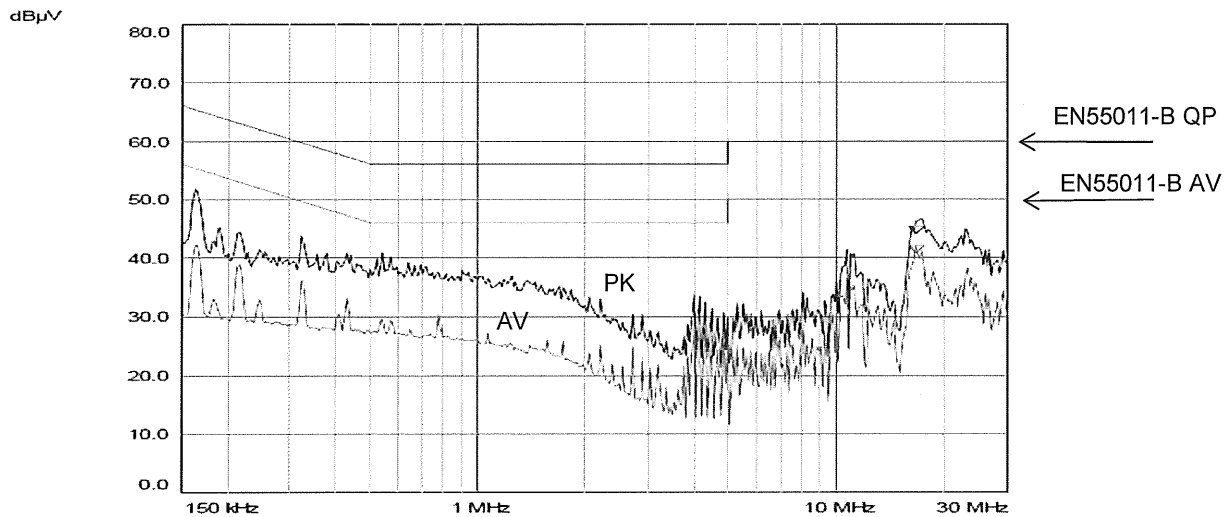
PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
N	16.85	46.4	43.3	60.0	50.0	-13.6	-6.7
N	17.28	44.0	35.9	60.0	50.0	-16.0	-14.1

Limit of EN55011-B, EN55022-B are the same

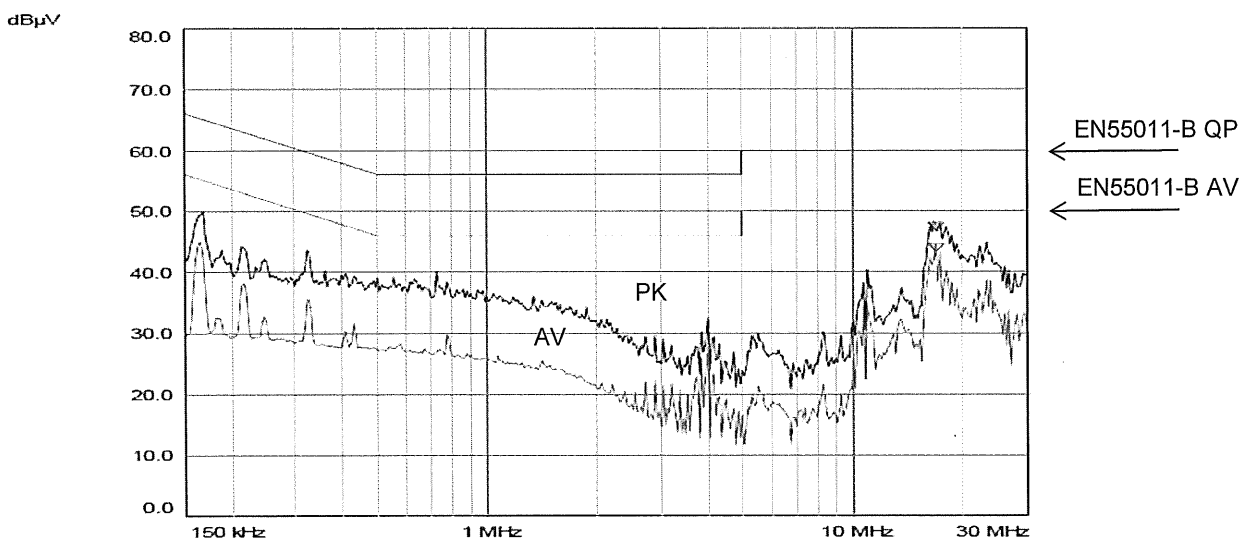
2.1 Conducted Emission

Conditions: Vin:230Vac  
 Vout: 100%  
 Iout: 100%  
 Ta = 25°C

Z160-4



PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
L	16.75	44.1	40.7	60.0	50.0	-15.9	-9.3



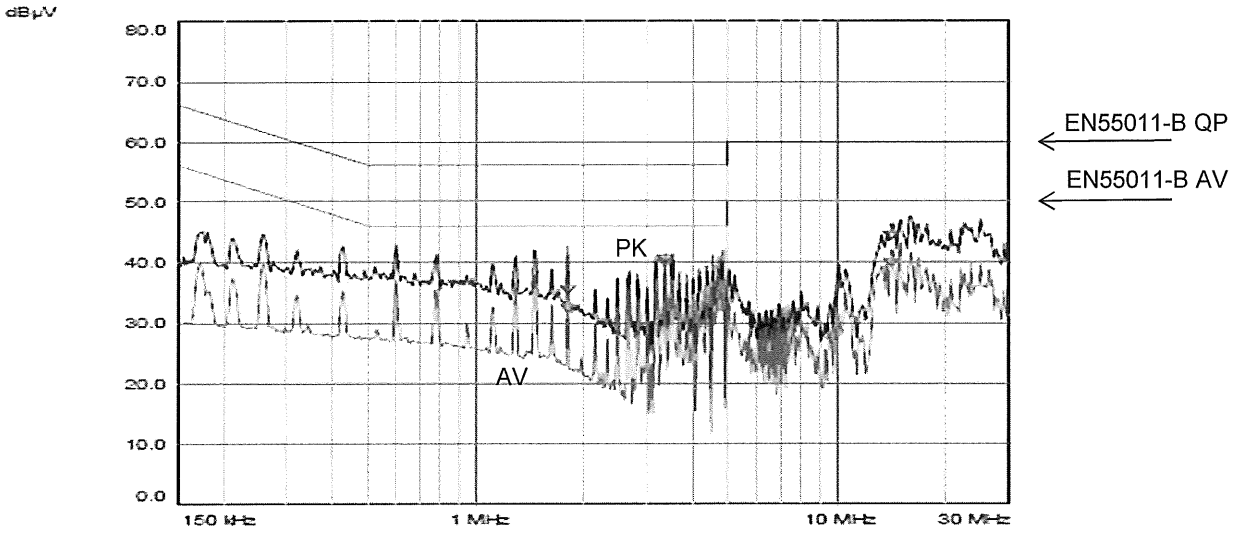
PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
N	16.97	46.7	43.3	60.0	50.0	-13.3	-6.7

Limit of EN55011-B, EN55022-B is the same

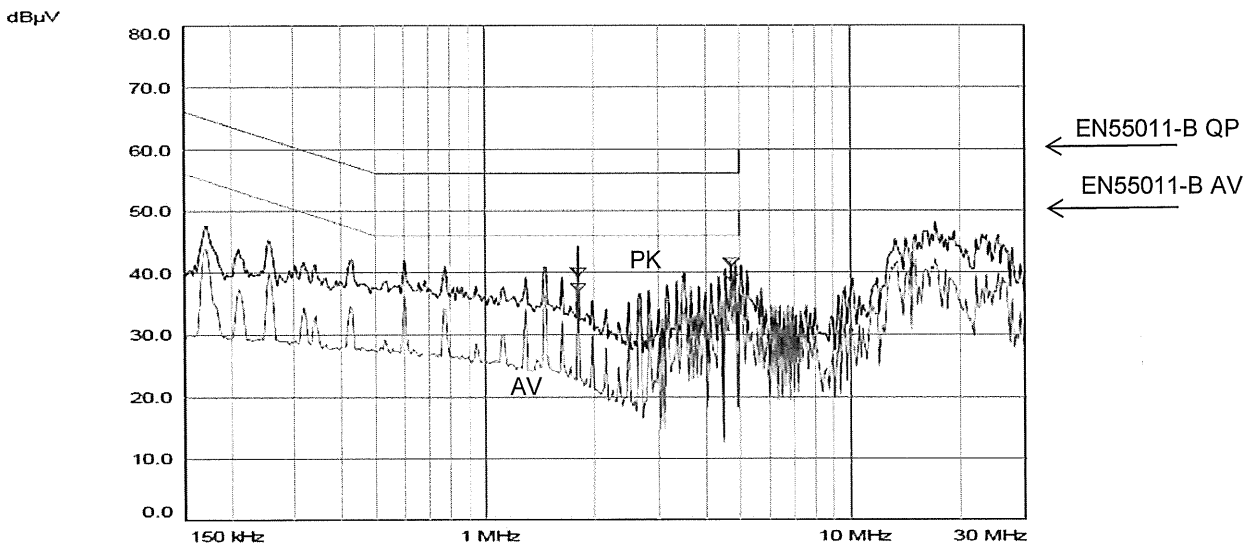
2.1 Conducted Emission

Conditions: Vin:115Vac  
 Vout: 100%  
 Iout: 100%  
 Ta = 25°C

Z650-1



PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
L	1.80	34.8	31.7	56.0	46.0	-21.2	-14.3
	3.34	39.9	39.2	56.0	46.0	-16.1	-6.8
	14.12	43.6	39.3	60.0	50.0	-16.4	-10.7



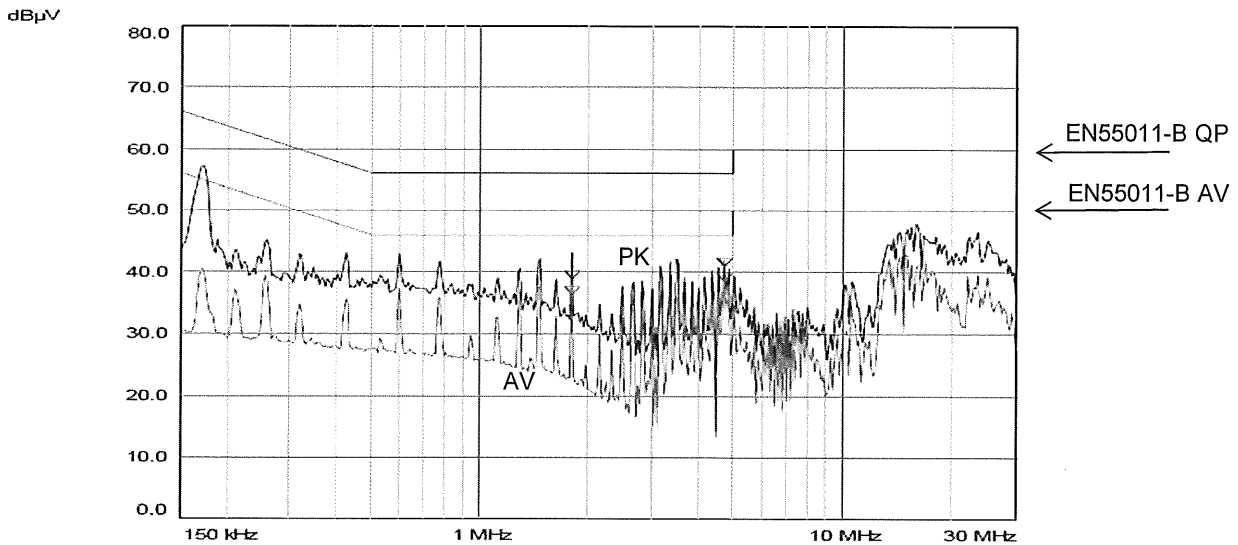
PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
N	1.80	39.4	36.8	56.0	46.0	-16.6	-9.2
	4.70	41.0	38.6	56.0	46.0	-15.0	-7.5

Limit of EN55011-B, EN55022-B are the same

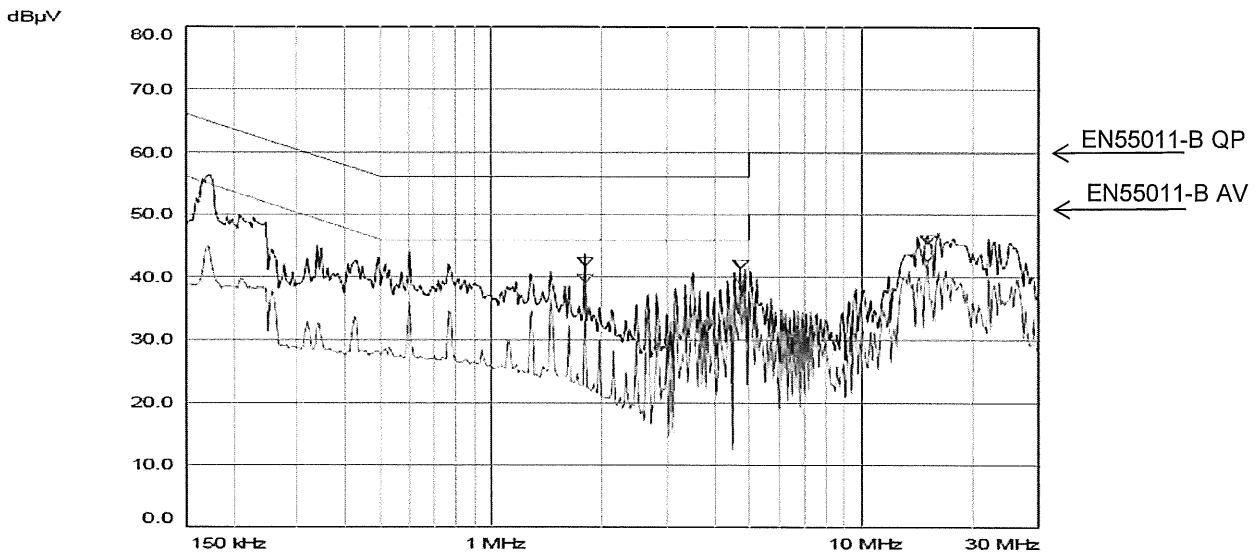
2.1 Conducted Emission

Conditions: Vin:230Vac  
 Vout: 100%  
 Iout: 100%  
 Ta = 25°C

Z650-1



PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
L	1.80	38.8	36.3	56.0	46.0	-17.2	-9.7
	4.70	40.9	38.4	56.0	46.0	-15.1	-7.6



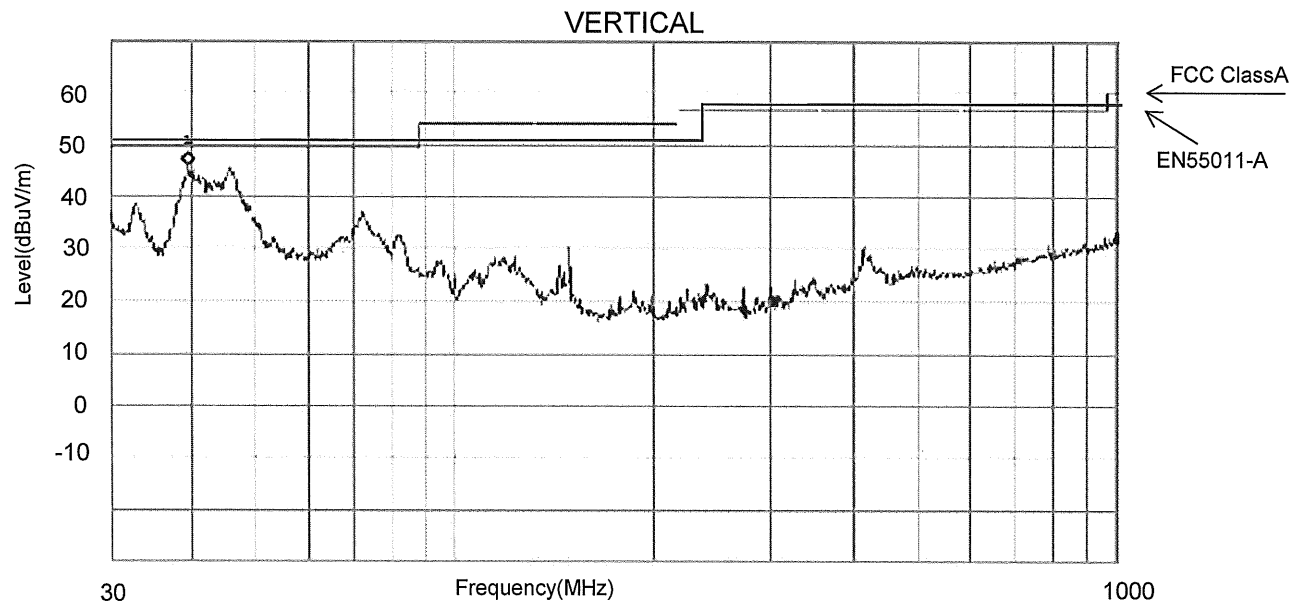
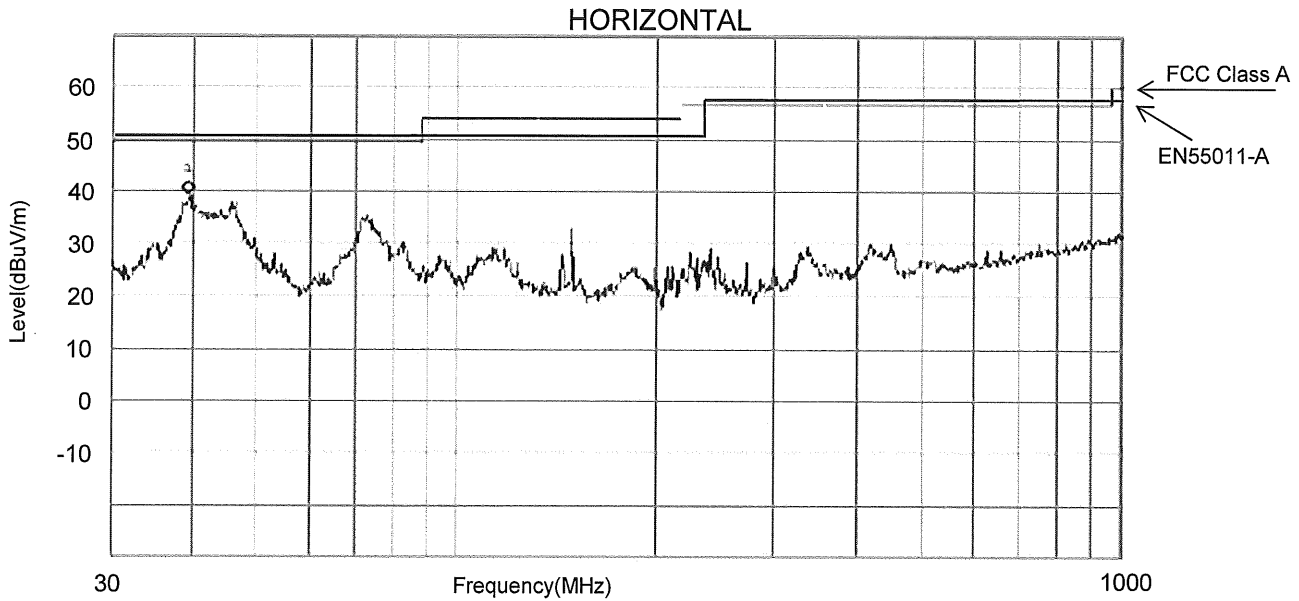
PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
N	1.80	41.8	39.0	56.0	46.0	-14.2	-7.0
	4.70	41.3	38.9	56.0	46.0	-14.7	-7.1
	15.14	45.5	42.6	60.0	50.0	-14.5	-7.4

Limit of EN55011-B, EN55022-B are the same

2.2 Radiated Emission

Z160-4

Conditions: Vin: 115VAC  
 Vout: 100%  
 Iout: 100%  
 Ta: 25°C



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit (dBuV/m)	QP margin (dB)	Polariz.
39.2	39.3	36.3	49.5(FCC)	13.2	Horizontal
39.2	39.3	36.3	50.5(EN)	14.2	Horizontal
39.3	46.1	43.0	49.5(FCC)	6.5	Vertical
39.3	46.1	43.0	50.5(EN)	7.5	Vertical

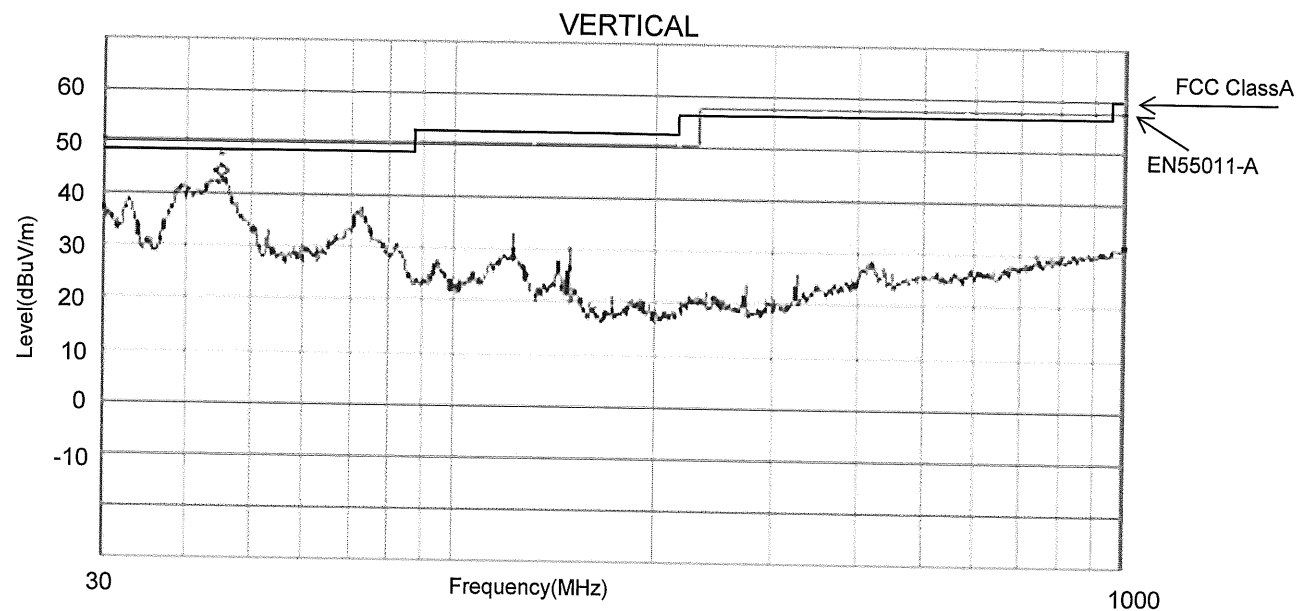
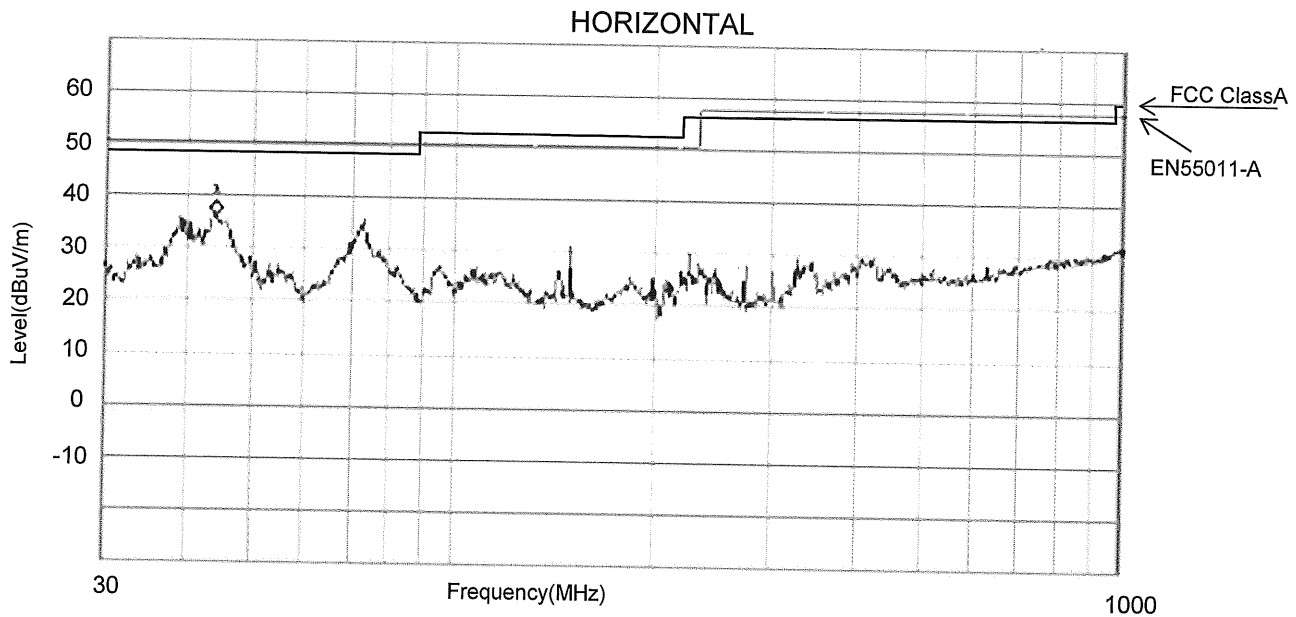
Limit of EN55011-A, EN55022-A are the same



2.2 Radiated Emission

Z160-4

Conditions: Vin: 230VAC  
 Vout: 100%  
 Iout: 100%  
 Ta: 25°C



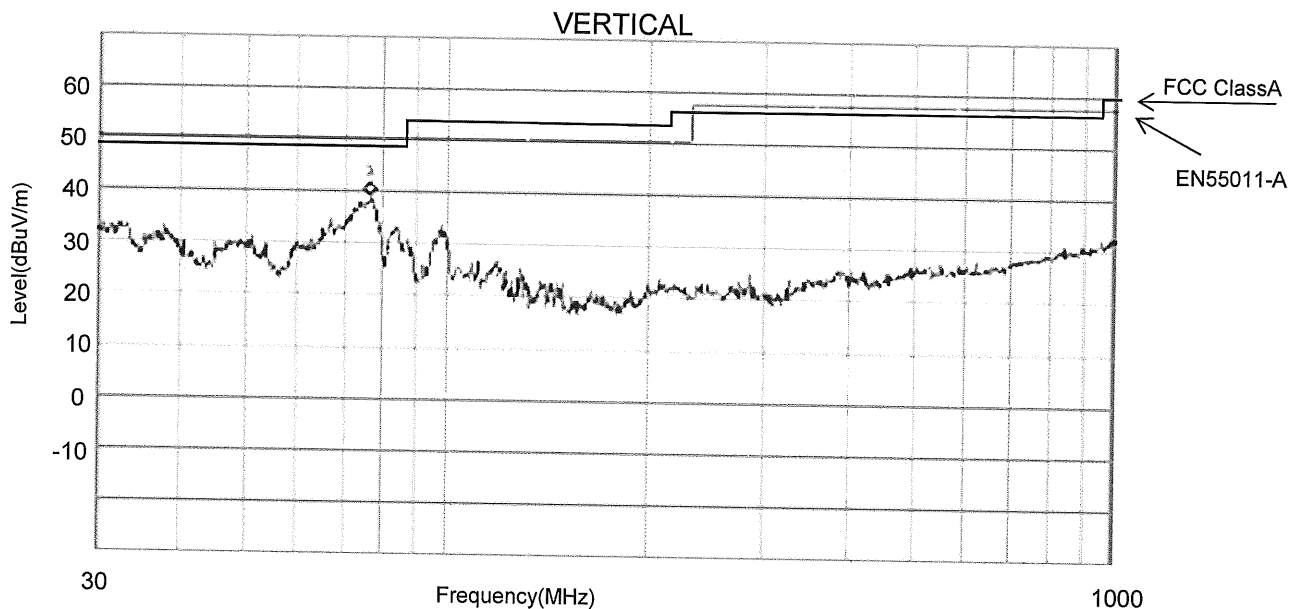
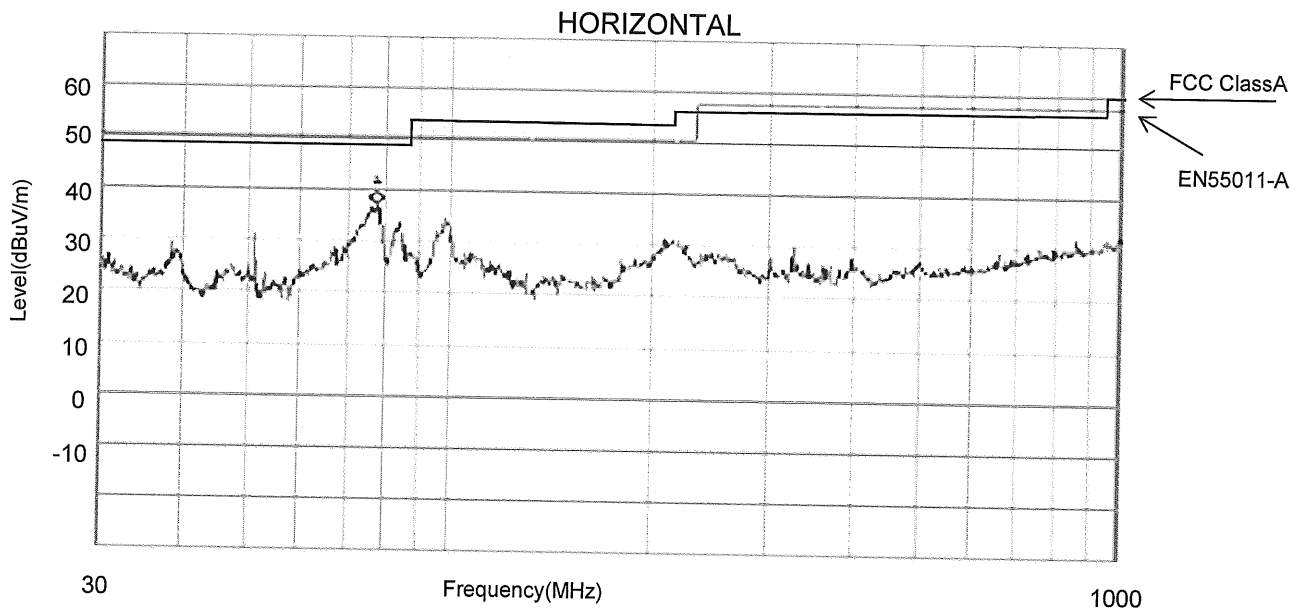
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit (dBuV/m)	QP margin (dB)	Polariz.
44.0	36.4	33.5	49.5(FCC)	16.0	Horizontal
44.0	36.4	33.5	50.5(EN)	17.0	Horizontal
45.2	43.2	40.3	49.5(FCC)	9.2	Vertical
45.2	43.2	40.3	50.5(EN)	10.2	Vertical

Limit of EN55011-A, EN55022-A are the same

2.2 Radiated Emission

Z650-1

Conditions: Vin: 230VAC  
 Vout: 100%  
 Iout: 100%  
 Ta: 25°C



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit (dBuV/m)	QP margin (dB)	Polariz.
77.3	37.2	34.2	49.5(FCC)	22.7	Horizontal
77.3	37.2	34.2	50.5(EN)	16.3	Horizontal
76.7	39.0	36.1	49.5(FCC)	13.4	Vertical
76.7	39.0	36.1	50.5(EN)	14.4	Vertical

Limit of EN55011-A, EN55022-A are the same