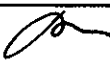
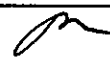



FPS1000 - 12

EMI TEST DATA

DWG: IA659-53-02		
APPD	CHK	DWG
 29.05.07	 29.05.07	 21.05.07



NEMIC-LAMBDA LTD.

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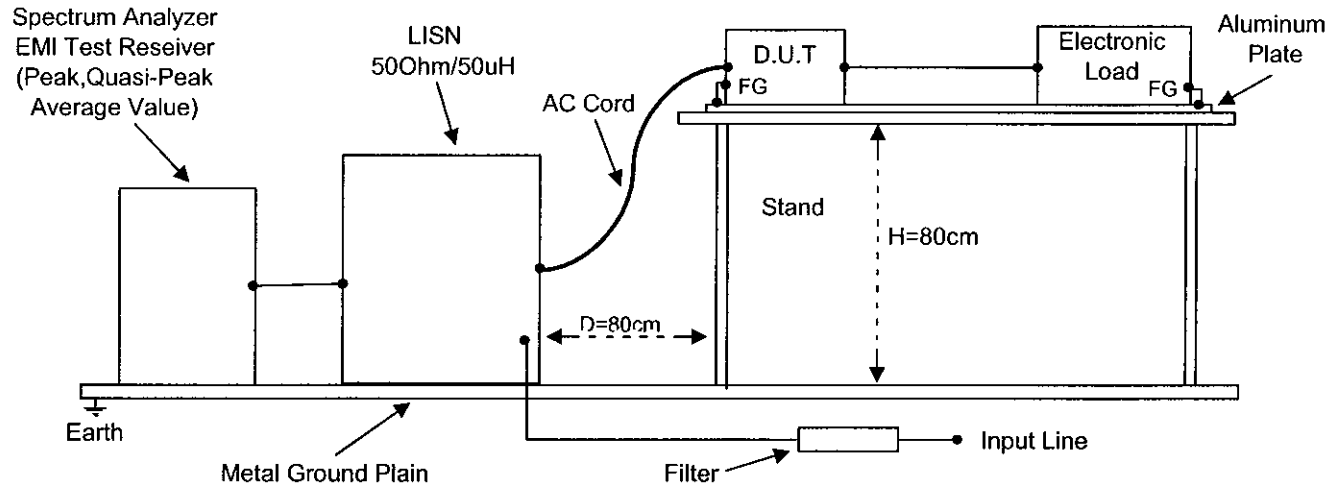
1.TEST METHOD	R-1
2.TEST DATA	
2-1. Conducted emission	R2~9
2-2. Radiated emission	R10~13

The above data is typical value data.

The values are considered to be actual capability data.

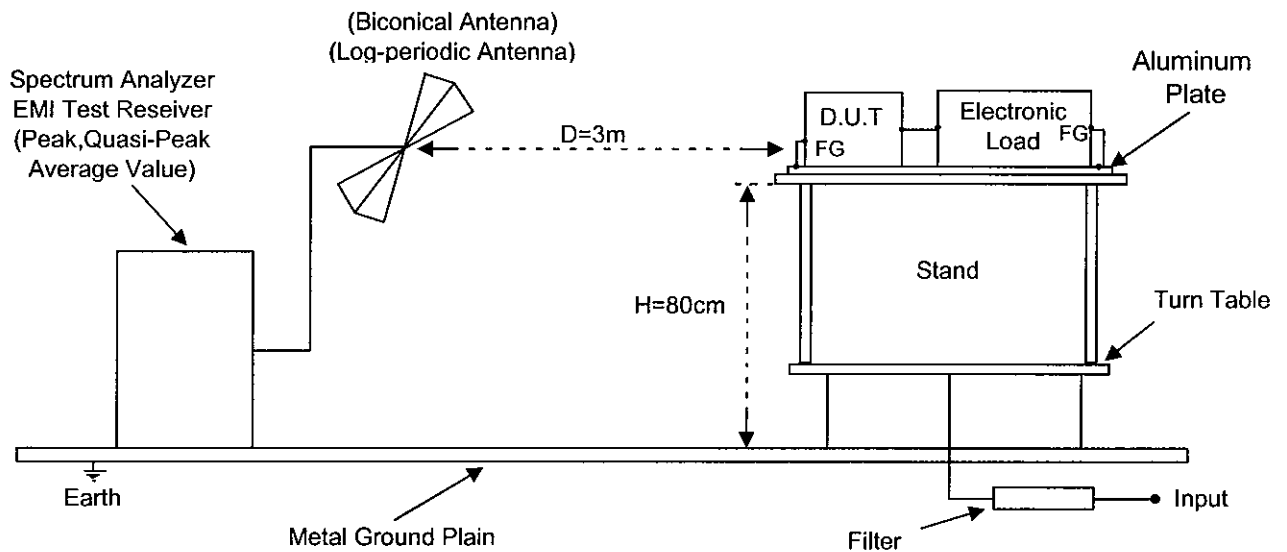
1. Test Method

(1) Conducted Emission



SPECTRUM ANALYZER	8567A	(HEWLETT. PACKARD)
EMI TEST RECEIVER	ESS	(ROHDE & SCHWARZ)
LISN	3825/2	(EMCO)

(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

FPS1000 - 12

2-1. Conducted Emission

(1) Test condition

Input voltage/frequency: 115VAC/50Hz
Output current: 100%
Ambient temperature: 25°C
Regulation: FCC Class B, EN55022-B

(2) Test results

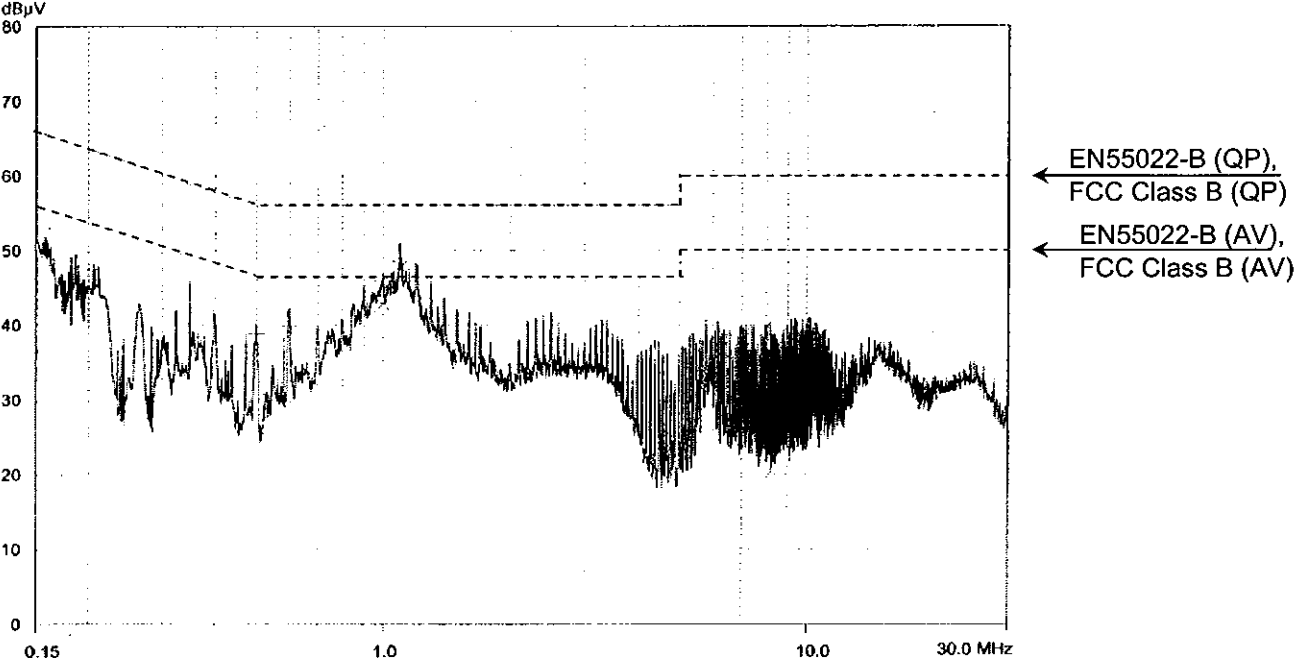
Inteference wave list

PHASE	FREQ MHz	RESULT		EN55022-B / FCC Class B			
		RESULT		LIMIT		MARGIN	
		QP dB μ V	AV dB μ V	QP dB μ V	AV dB μ V	QP dB μ V	AV dB μ V
L	0.59779	-	39.90	56.00	46.00	-	6.10
	1.09515	47.78	40.22	56.00	46.00	8.22	5.78
	2.39195	-	36.87	56.00	46.00	-	9.13
N	1.09515	-	38.28	56.00	46.00	-	7.72
	1.39466	-	37.19	56.00	46.00	-	8.82

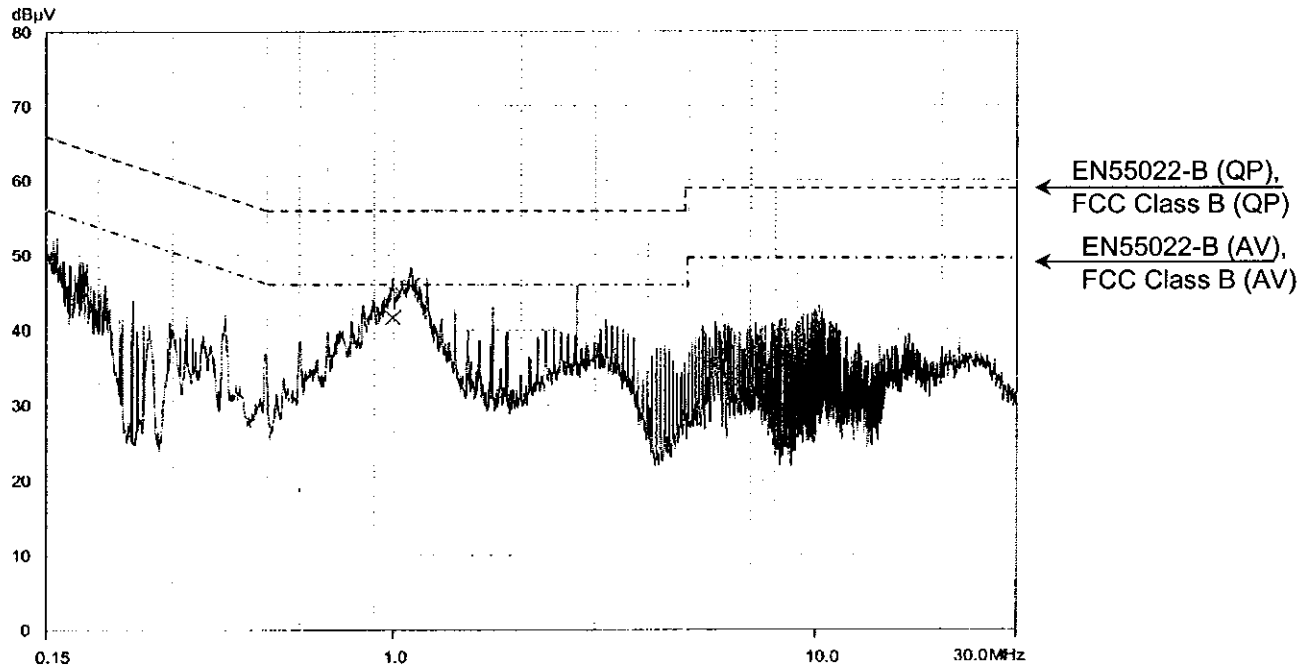
EMI
Electro-Magnetic Interference characteristics

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

Phase L



Phase N



(1) Test condition

Input voltage/frequency: 115VAC/50Hz
 Output current: 100%
 Ambient temperature: 25°C
 Regulation: FCC Class B, EN55022-B

(2) Test results

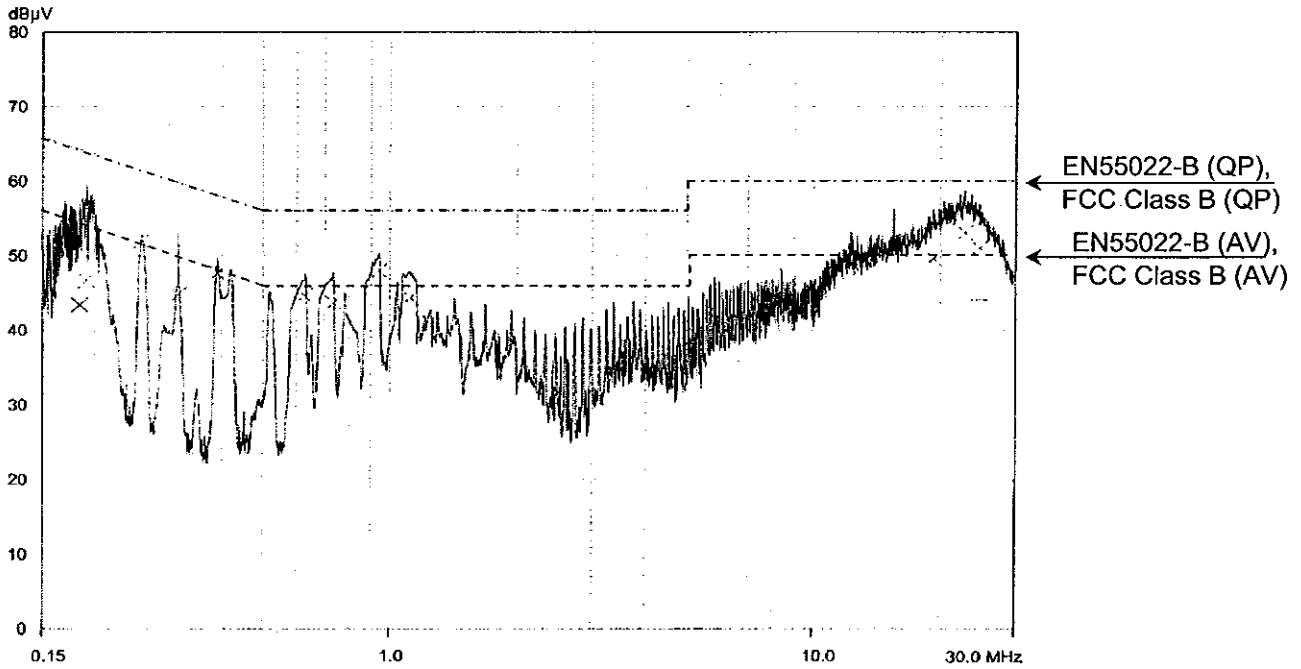
Inteference wave list

PHASE	FREQ MHz	EN55022-B / FCC Class B					
		RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
L	0.21067	-	44.60	63.18	53.18	-	8.58
	0.25829	51.94	-	61.49	51.49	9.55	-
	0.25932	-	46.75	61.45	51.45	-	4.70
	0.42140	-	41.43	57.42	47.42	-	5.99
	0.93898	47.92	-	56.00	46.00	8.08	-
	22.82500	53.08	-	60.00	50.00	6.92	-
	24.23497	-	44.38	60.00	50.00	-	5.62
	24.62545	-	44.02	60.00	50.00	-	5.98
24.67470	51.00	-	60.00	50.00	9.00	-	
N	0.25984	-	44.29	61.44	51.44	-	7.15
	0.42056	-	40.50	57.44	47.44	-	6.94
	0.94086	46.98	-	56.00	46.00	9.02	-
	19.33704	-	43.63	60.00	50.00	-	6.37
	22.96223	-	45.60	60.00	50.00	-	4.40
	24.38067	-	45.06	60.00	50.00	-	4.94

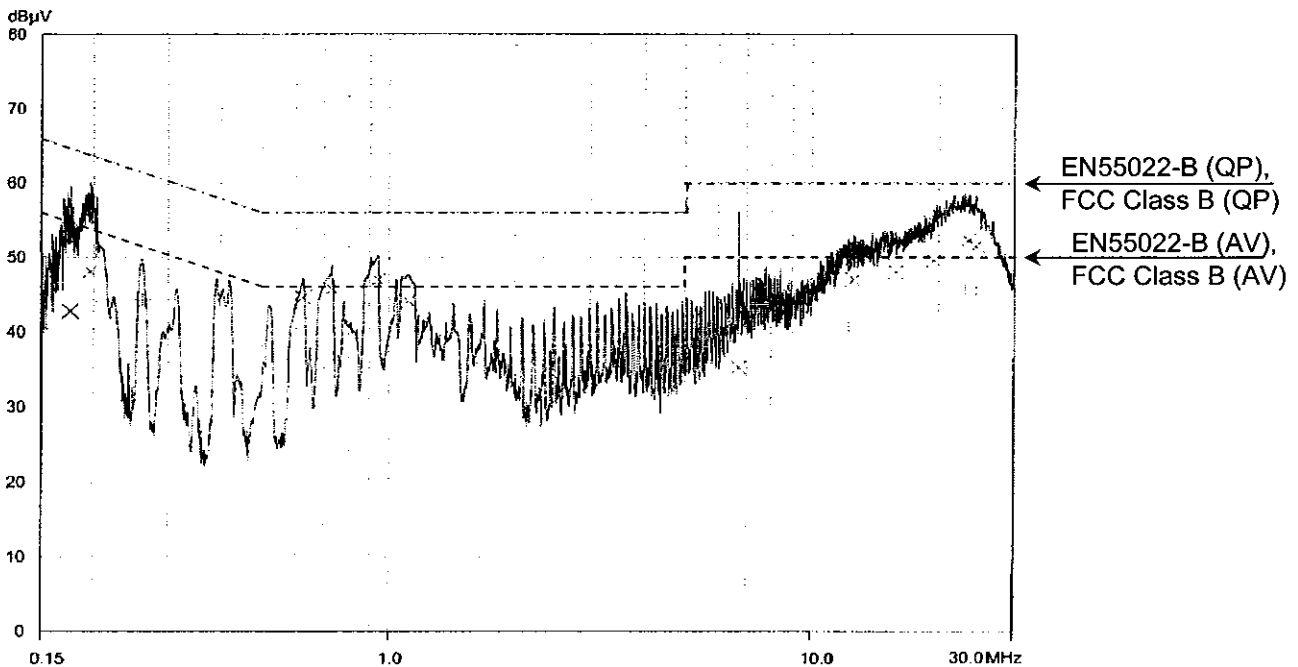
EMI
Electro-Magnetic Interference characteristics

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

Phase L



Phase N



(1) Test condition

Input voltage/frequency: 230VAC/50Hz
 Output current: 100%
 Ambient temperature: 25°C
 Regulation: FCC Class B, EN55022-B

(2) Test results

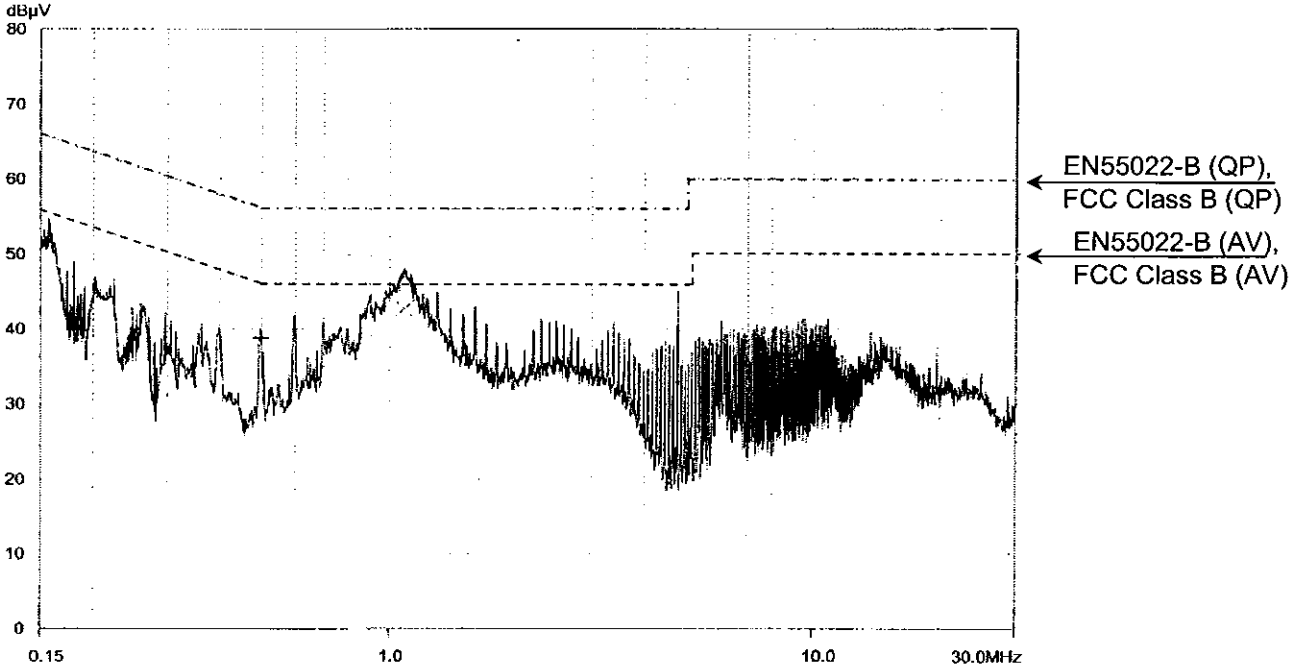
Inteference wave list

PHASE	FREQ MHz	RESULT		EN55022-B / FCC Class B			
		LIMIT		MARGIN		QP	AV
		QP	AV	QP	AV		
		dBµV	dBµV	dBµV	dBµV	dBµV	dBµV
L	0.49742	-	38.78	56.04	46.04	-	7.26
	0.59660	-	40.08	56.00	46.00	-	5.92
	1.07994	42.68	-	56.00	46.00	13.32	-
N	0.99301	42.60	-	56.00	46.00	13.40	-
	1.09296	43.52	37.97	56.00	46.00	12.48	8.03
	1.48971	-	36.67	56.00	46.00	-	9.33

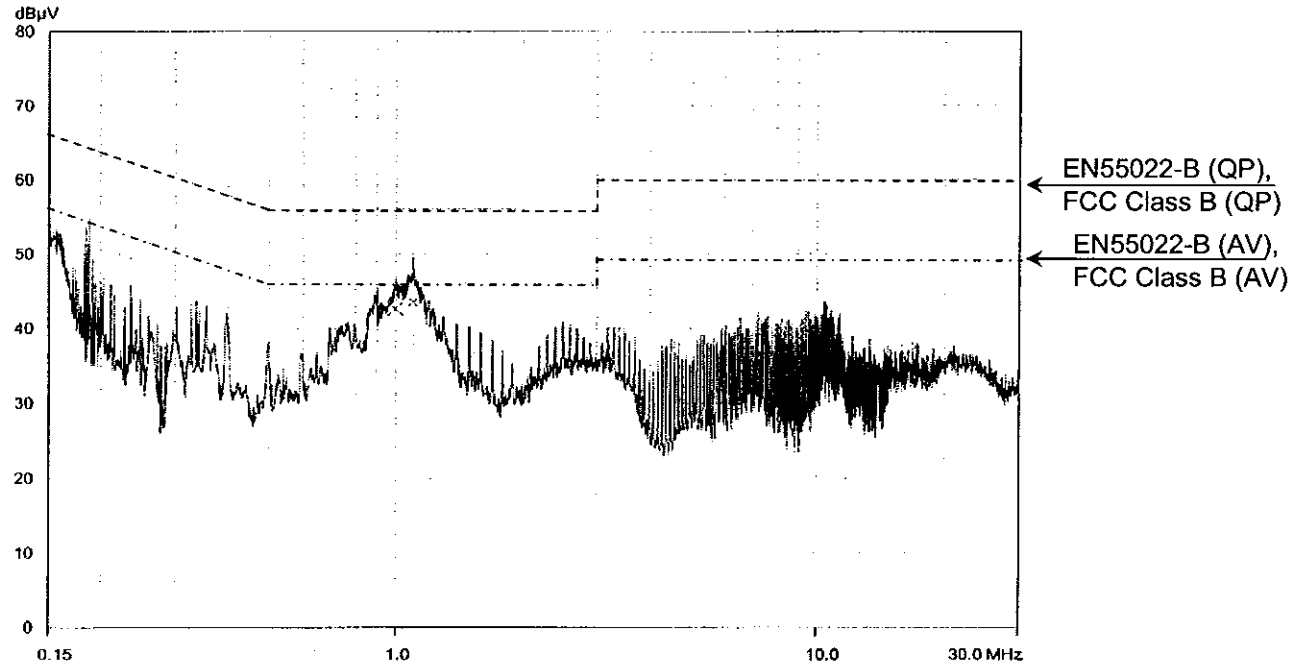
EMI
Electro-Magnetic Interference characteristics

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

Phase L



Phase N



(1) Test condition

Input voltage/frequency: 230VAC/50Hz
 Output current: 100%
 Ambient temperature: 25°C
 Regulation: FCC Class B, EN55022-B

(2) Test results

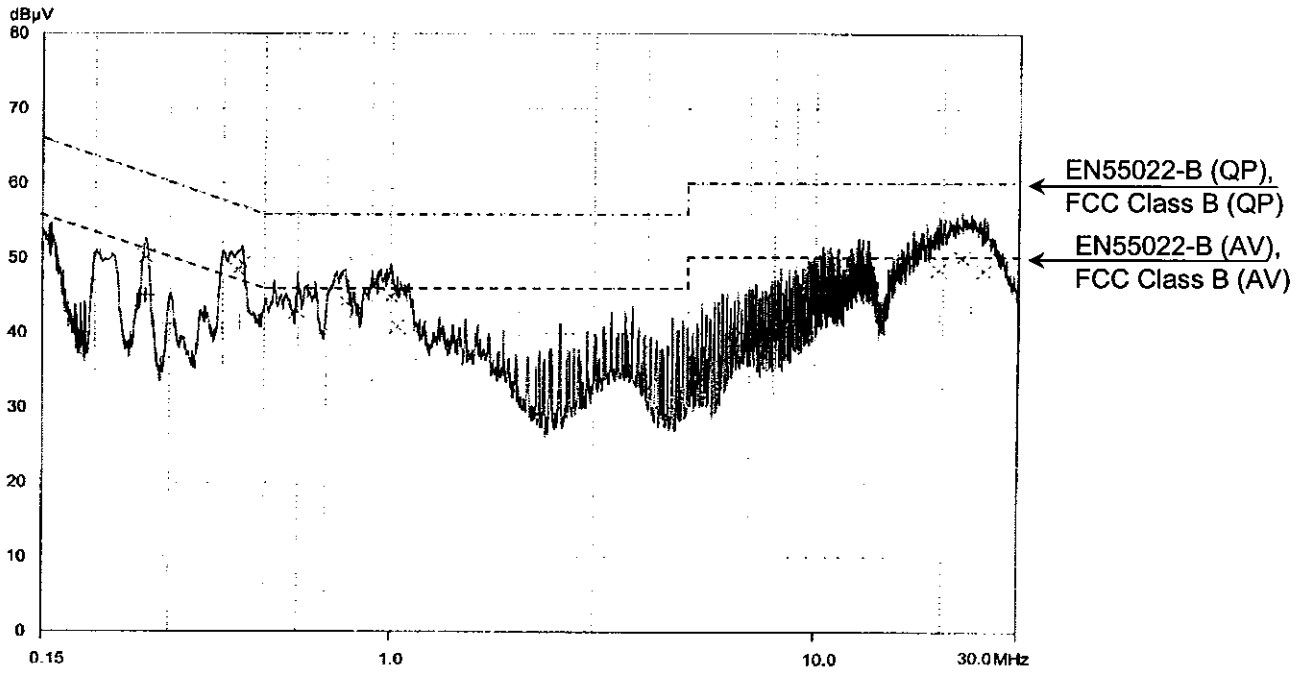
Inteference wave list

PHASE	FREQ	EN55022-B / FCC Class B					
		RESULT		LIMIT		MARGIN	
		QP	AV	QP	AV	QP	AV
	MHz	dBµV	dBµV	dBµV	dBµV	dBµV	dBµV
L	0.26245	-	45.00	61.35	51.35	-	6.35
	0.43249	48.40	-	57.20	47.20	8.80	-
	0.43683	-	41.48	57.12	47.12	-	5.64
	0.44299	49.28	-	57.01	47.01	7.73	-
	0.59779	42.86	39.29	56.00	46.00	13.14	6.71
	23.14648	-	42.96	60.00	50.00	-	7.04
N	0.43163	-	40.13	57.22	47.22	-	7.09
	0.43858	-	41.63	57.09	47.09	-	5.46
	0.44299	49.10	-	57.01	47.01	7.91	-
	21.15619	-	42.23	60.00	50.00	-	7.77
	24.28344	-	41.24	60.00	50.00	-	8.76

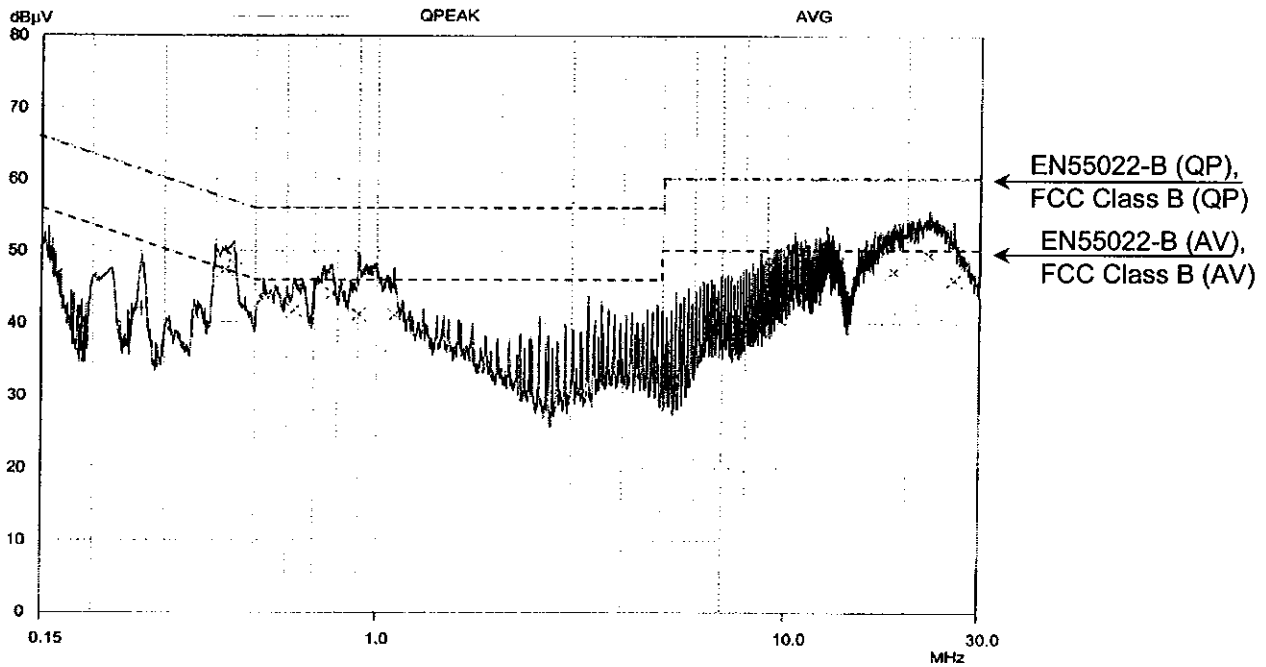
EMI
Electro-Magnetic Interference characteristics

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

Phase L



Phase N

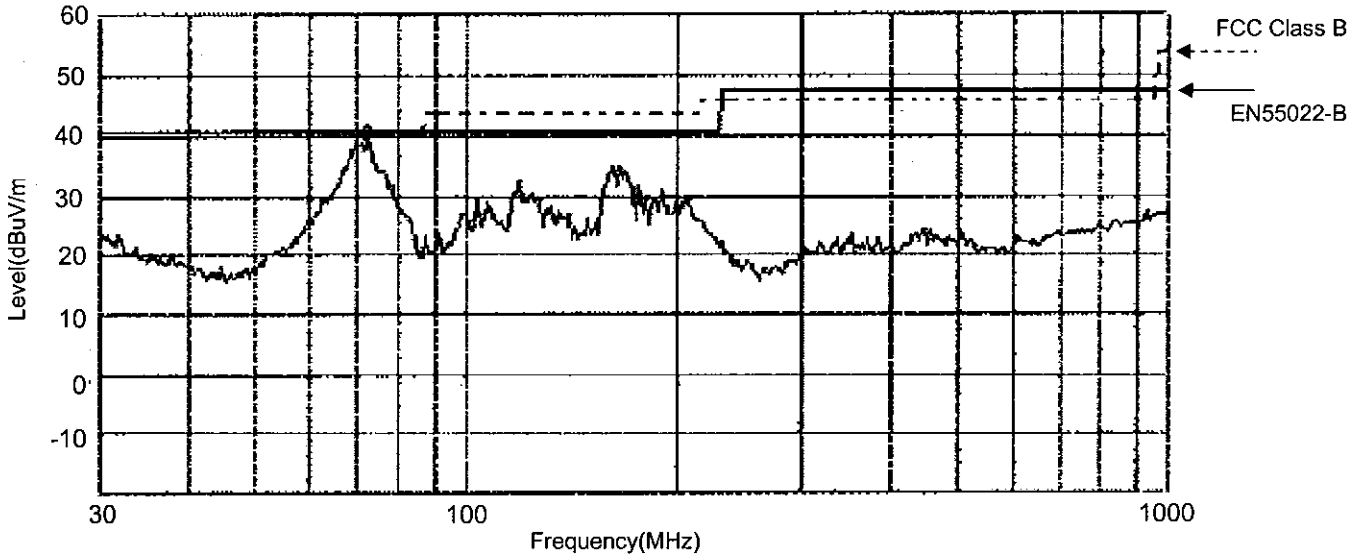


2-2. Radiated Emission

EMI
Electro-Magnetic interference characteristics

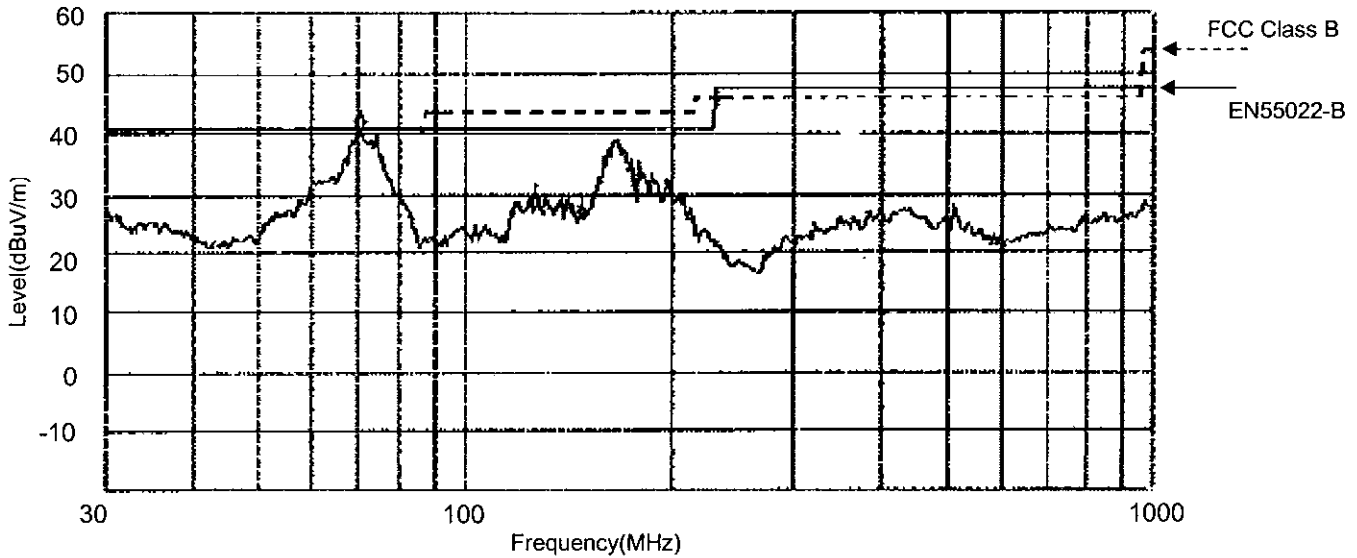
Conditions: Vin: 115VAC
Vout: 12V
Iout: 100%
Ta: 25°C

HORIZONTAL



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
72.56975	39.52	34.82	40.50	5.68	40.00	5.18

VERTICAL



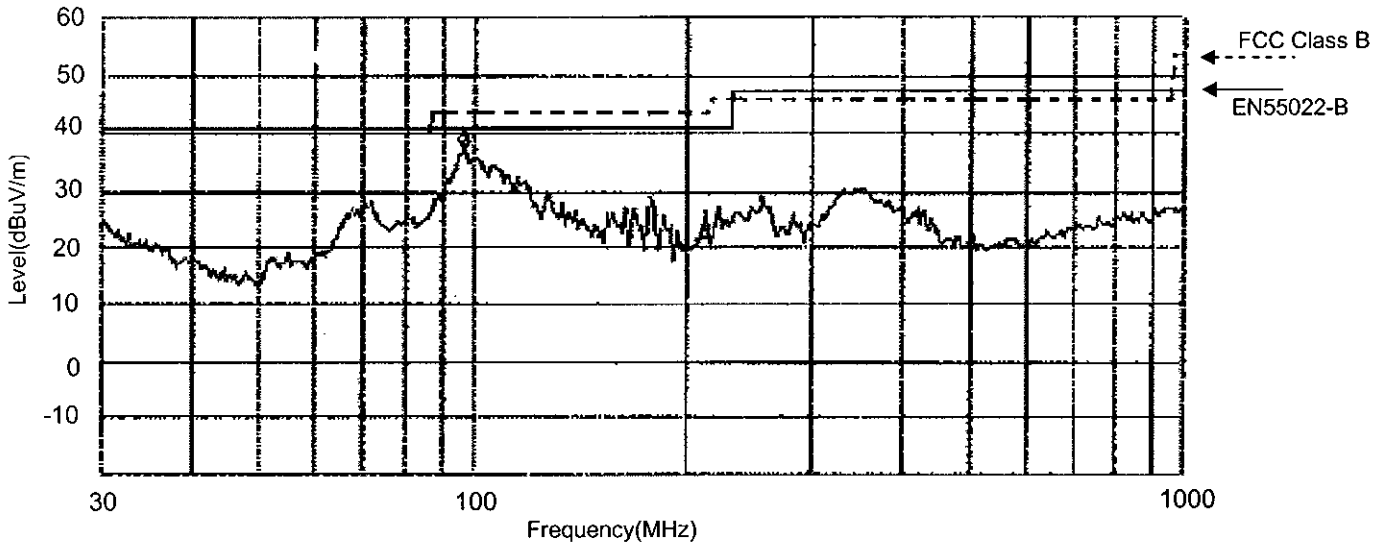
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
70.428754	41.32	36.83	40.50	3.67	40.00	3.17
164.739645	38.71	34.21	40.50	6.29	43.50	9.29

Limits of EN55022-B are same as VCCI-B

EMI
Electro-Magnetic interference characteristics

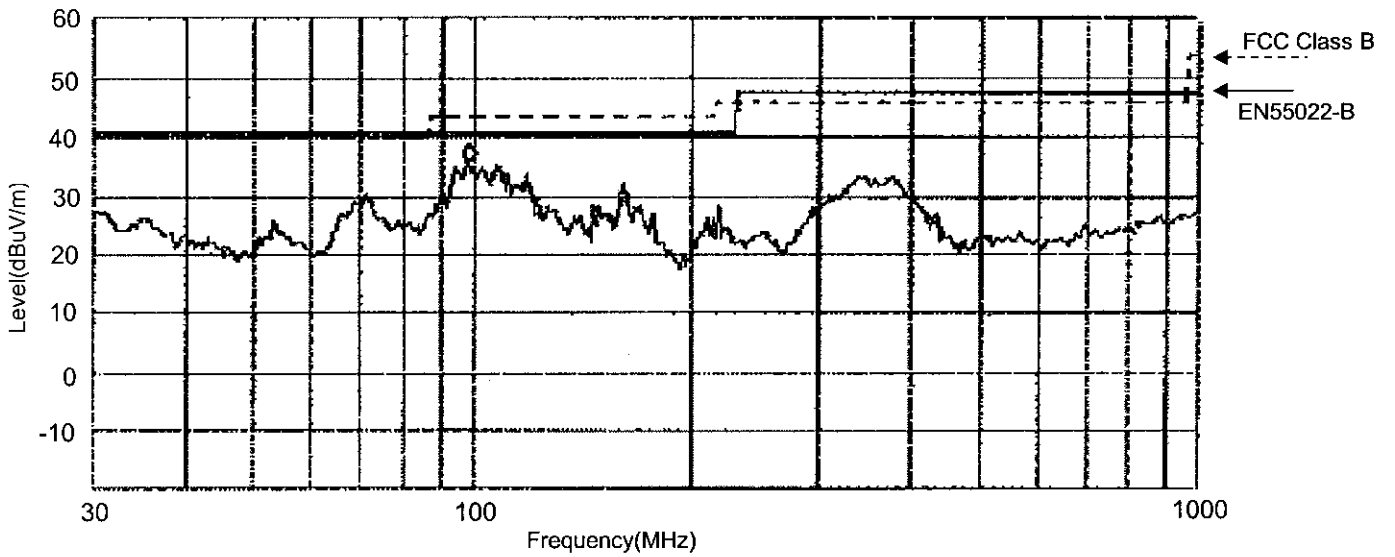
Conditions: Vin: 115VAC
Vout: 12V
Iout: 100%
Ta: 25°C

HORIZONTAL



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
98.347353	37.78	34.67	40.50	5.83	43.50	8.83

VERTICAL



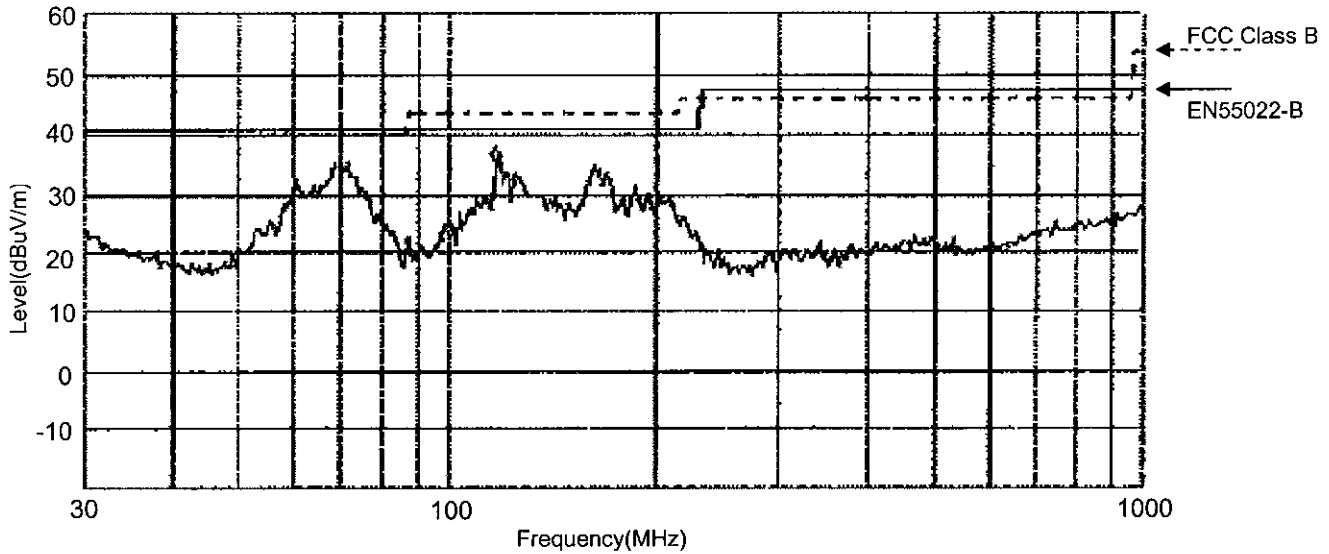
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
99.859326	35.86	32.46	40.50	8.04	43.50	11.04

Limits of EN55022-B are same as VCCI-B

EMI
Electro-Magnetic interference characteristics

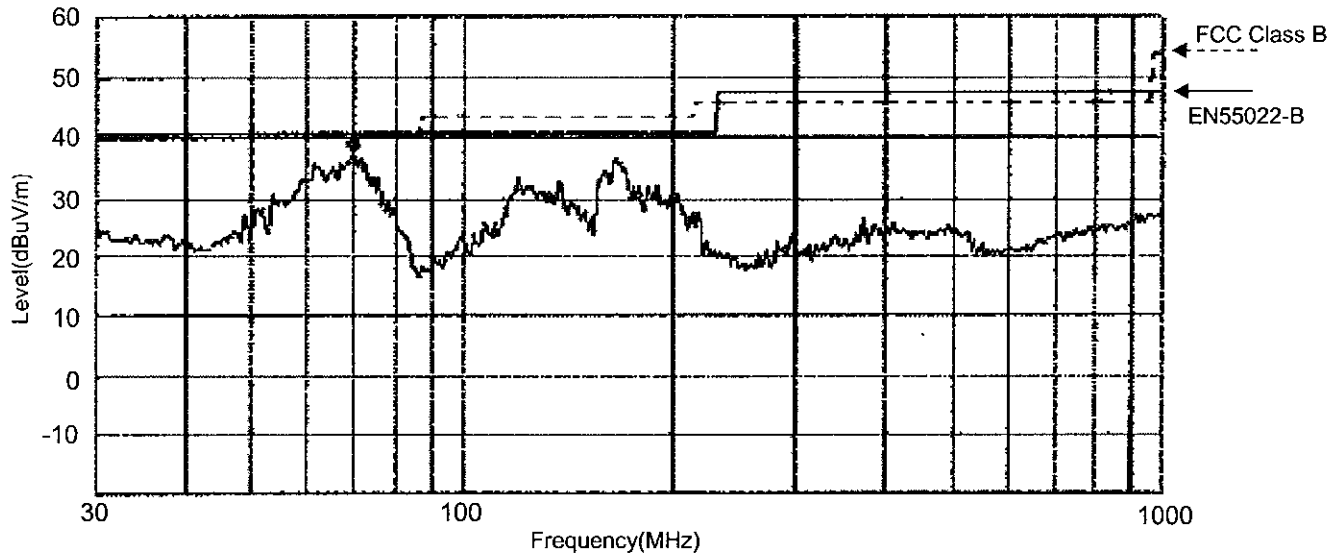
Conditions: Vin: 230VAC
Vout: 12V
Iout: 100%
Ta: 25°C

HORIZONTAL



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
117.376452	36.51	32.12	40.50	8.38	43.50	11.38

VERTICAL



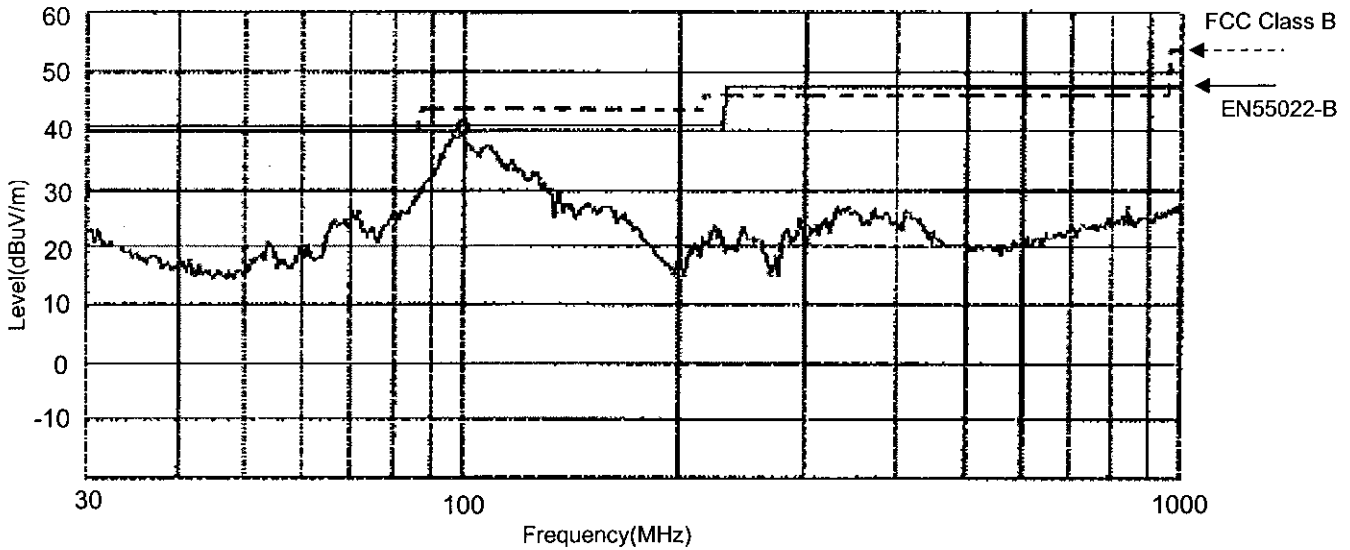
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
69.745364	37.52	32.83	40.50	7.67	40.00	7.17
160.536643	36.25	32.03	40.50	8.47	43.50	11.47

Limits of EN55022-B are same as VCCI-B

EMI
Electro-Magnetic interference characteristics

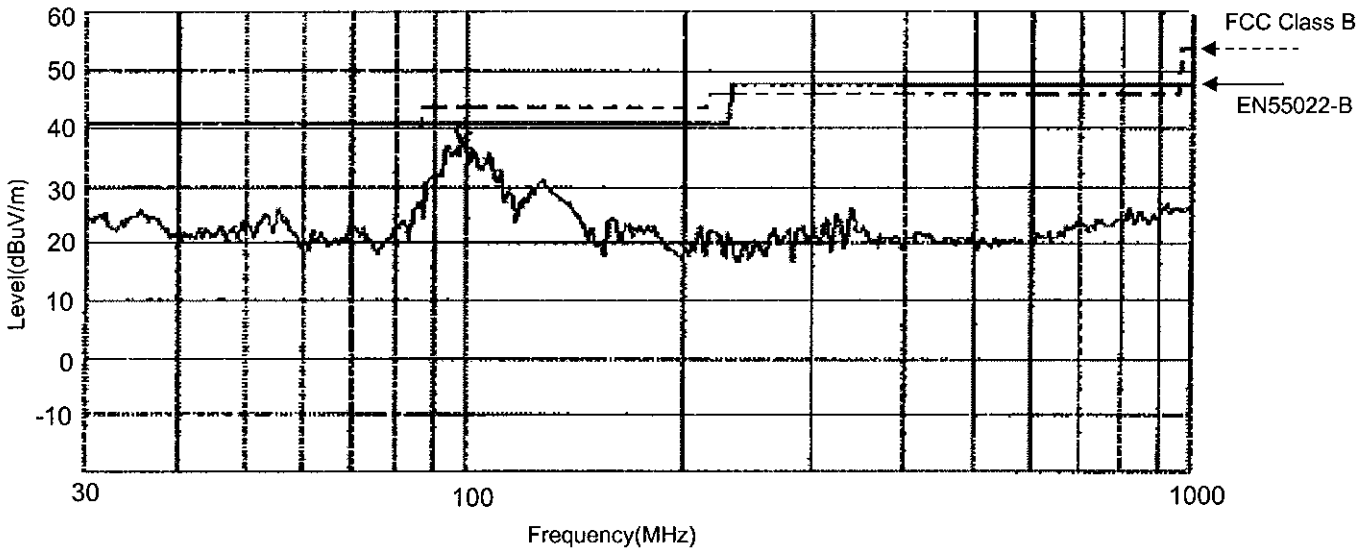
Conditions: Vin: 230VAC
Vout: 12V
Iout: 100%
Ta: 25°C

HORIZONTAL



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
99.937353	39.61	36.47	40.50	4.03	43.50	7.03

VERTICAL



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
99.973258	38.04	35.03	40.50	5.47	43.50	8.47

Limits of EN55022-B are same as VCCI-B