



FPS1000 - 24

EMI TEST DATA

DWG: IA599-53-04		
APPD	CHK	DWG
Dorow P. Apr-28-05	 19.04.05	Zlatos Yuri  19.04.05



NEMIC-LAMBDA LTD.

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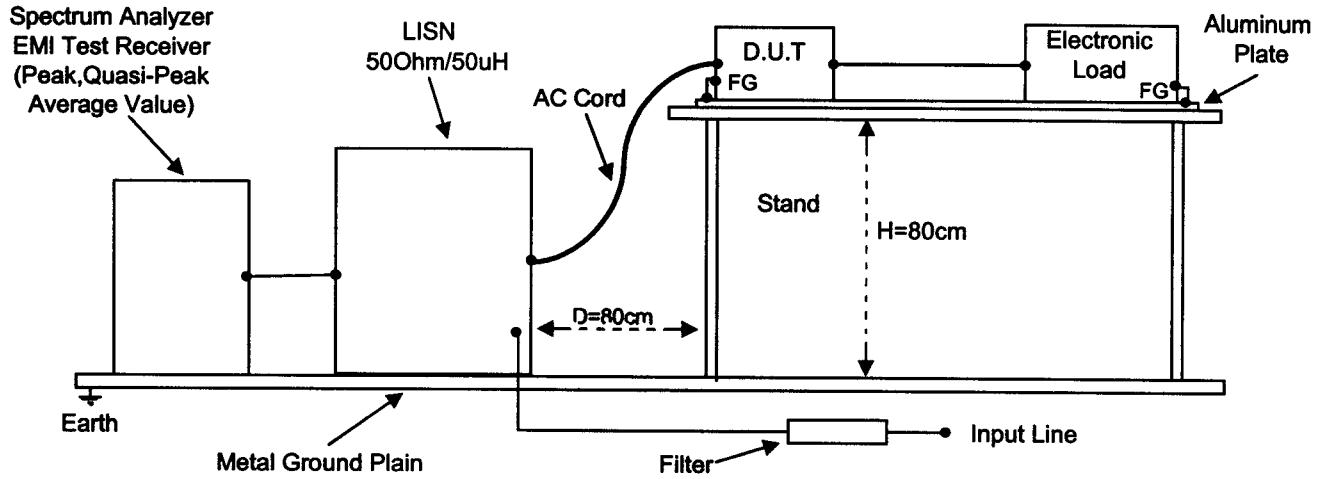
The above data is typical value data.

The values are considered to be actual capability data.

1. Test Method

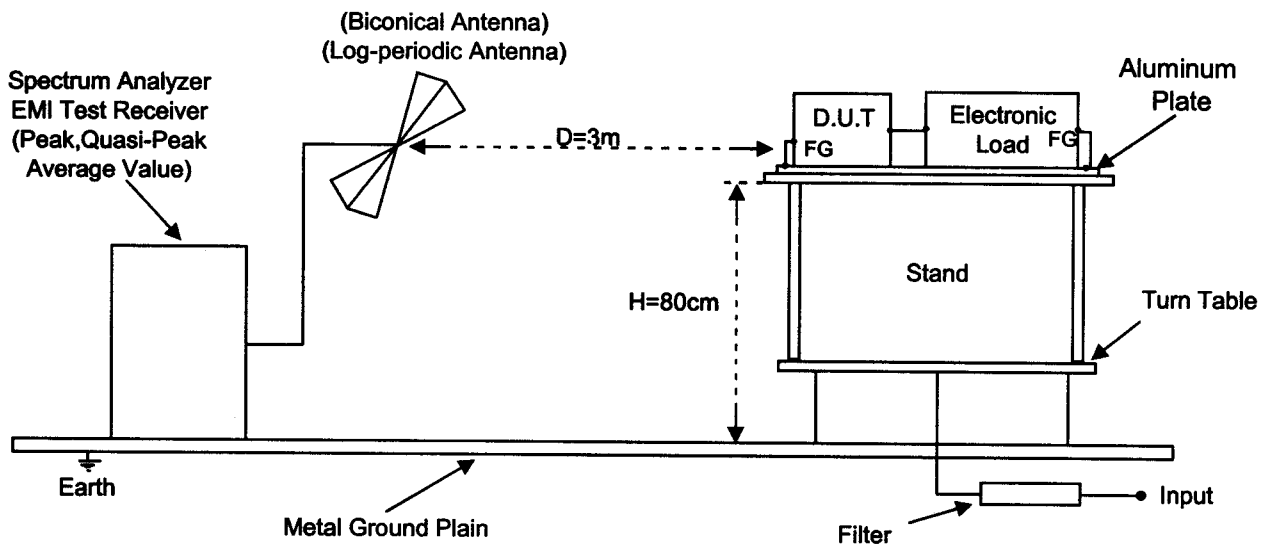
FPS1000 - 24

(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 - 24

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

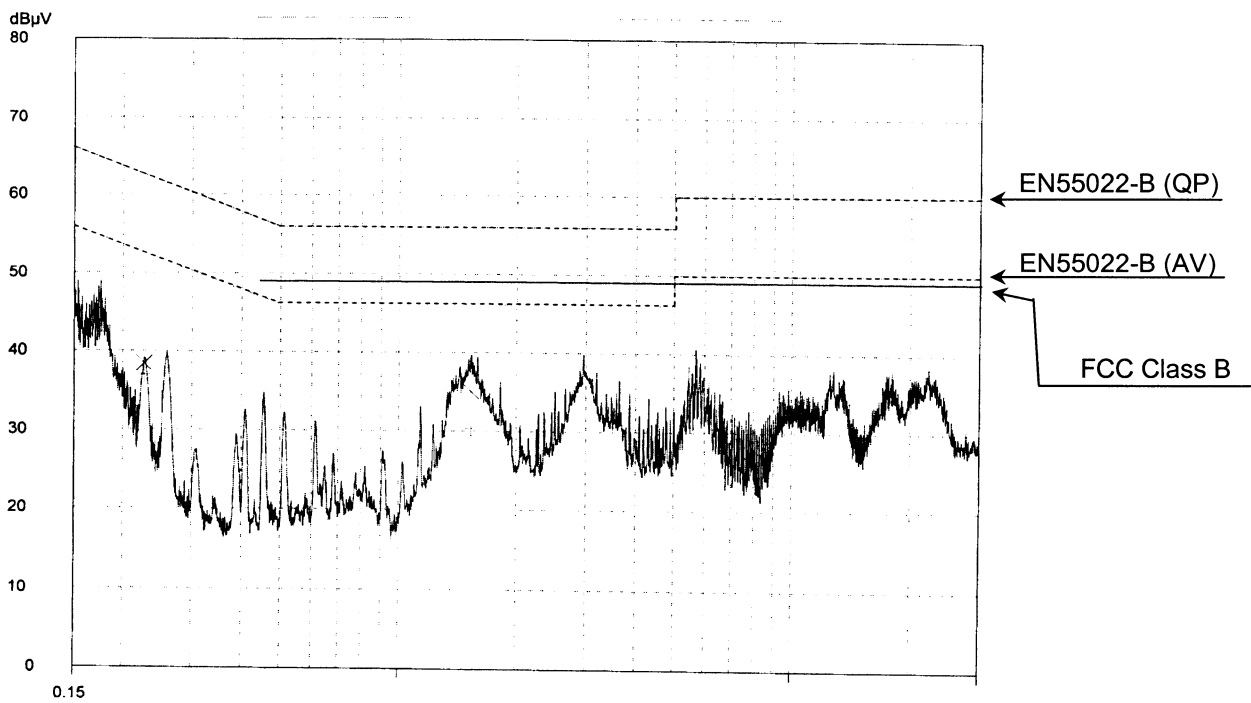
Inteference wave list

PHASE	FREQ	RESULT		EN55022-B				FCC Class B	
		LIMIT		MARGIN		LIMIT	MARGIN		
		QP	AV	QP	AV	QP	AV	QP	QP
	MHz	dB μ V	dB μ V	dB μ V	dB μ V	dB μ V	dB μ V	dB μ V	dB μ V
L	0.22683	38.48	37.05	62.56	52.56	24.08	15.51	-	-
	1.53197	35.10	30.32	56.00	46.00	20.90	15.68	48.00	12.90
N	0.22728	38.6	47.05	62.45	52.55	23.85	5.50	-	-
	0.45464	37.79	37.79	56.79	46.79	19.00	9.00	48.00	10.21
	1.38909	36.62	31.80	56.00	46.00	19.38	14.20	48.00	11.38
	2.99183	35.13	30.50	56.00	46.00	20.87	15.50	48.00	12.87
	17.85176	32.84	27.50	60.00	50.00	27.16	22.50	48.00	15.16

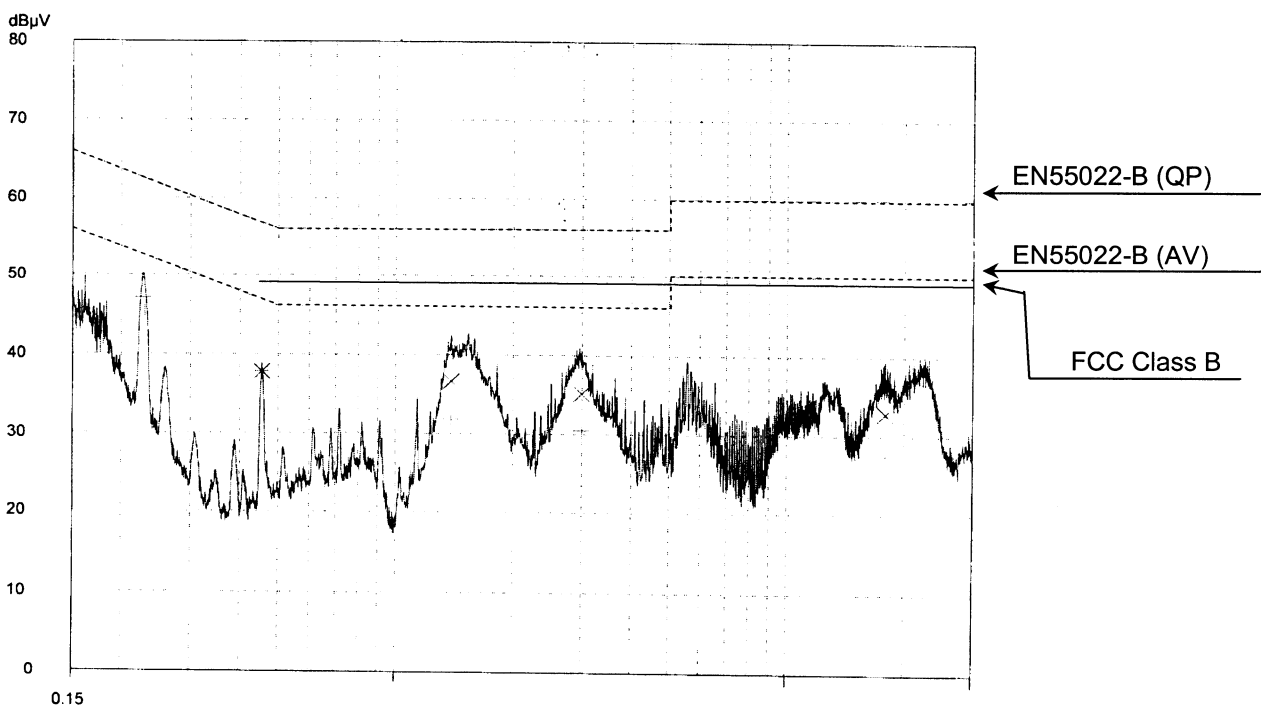
EMI
Electro-Magnetic Interference characteristics

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

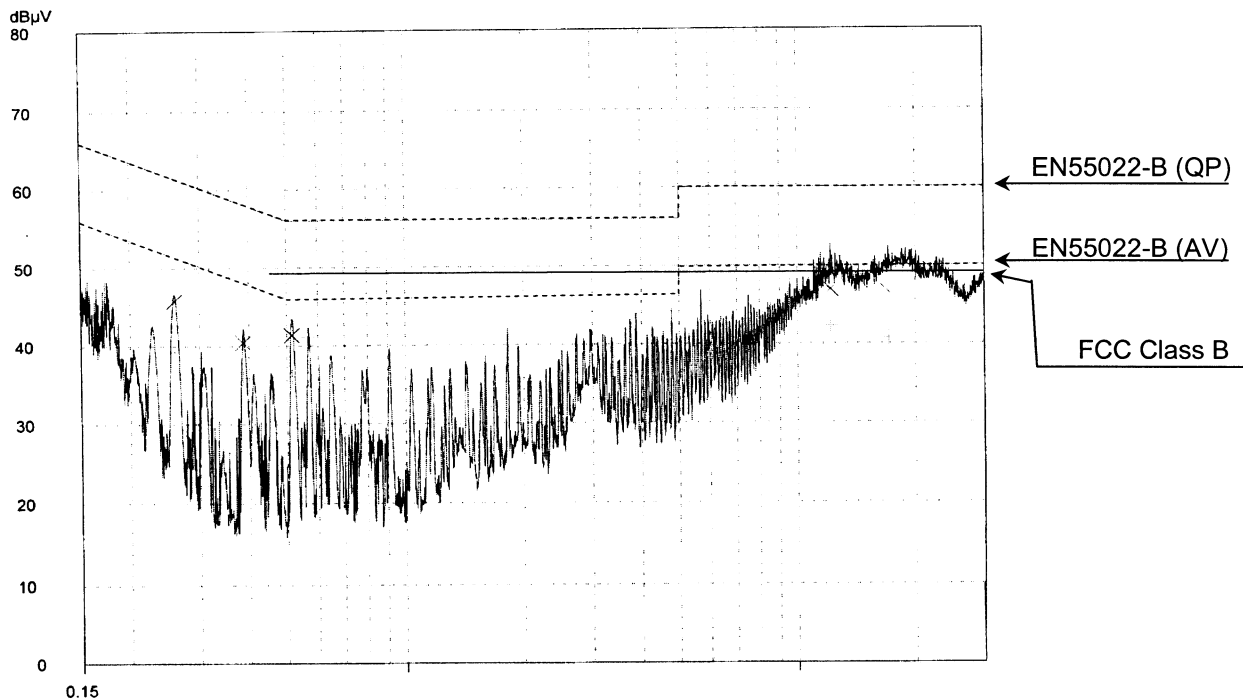
Inteference wave list

PHASE	FREQ MHz	RESULT		EN55022-B				FCC Class B	
		LIMIT		MARGIN		LIMIT	MARGIN		
		QP	AV	QP	AV	QP	AV	QP	QP
		dBµV	dBµV	dBµV	dBµV	dBµV	dBµV	dBµV	dBµV
L	0.22932	45.73	39.33	61.45	51.45	15.72	12.12	-	-
	0.38671	40.41	36.01	58.13	48.13	17.72	12.12	-	-
	0.51459	41.32	36.16	56.00	46.00	14.68	9.84	48.00	6.68
	0.56867	41.20	41.10	56.00	46.00	14.80	4.9	48.00	6.80
	12.16406	46.87	42.23	60.00	50.00	13.13	7.77	48.00	1.13
	17.04996	46.53	40.62	60.00	50.00	13.47	9.38	48.00	1.47
N	0.22728	48.10	46.65	62.55	52.55	14.45	5.90	-	-
	0.25932	46.03	39.99	61.45	51.45	15.42	11.46	-	-
	2.95618	41.34	38.33	56.00	46.00	14.66	7.67	48.00	6.66
	11.59453	47.46	44.00	60.00	50.00	12.54	6.00	48.00	0.54
	18.87892	45.32	38.86	60.00	50.00	14.68	11.14	48.00	2.68

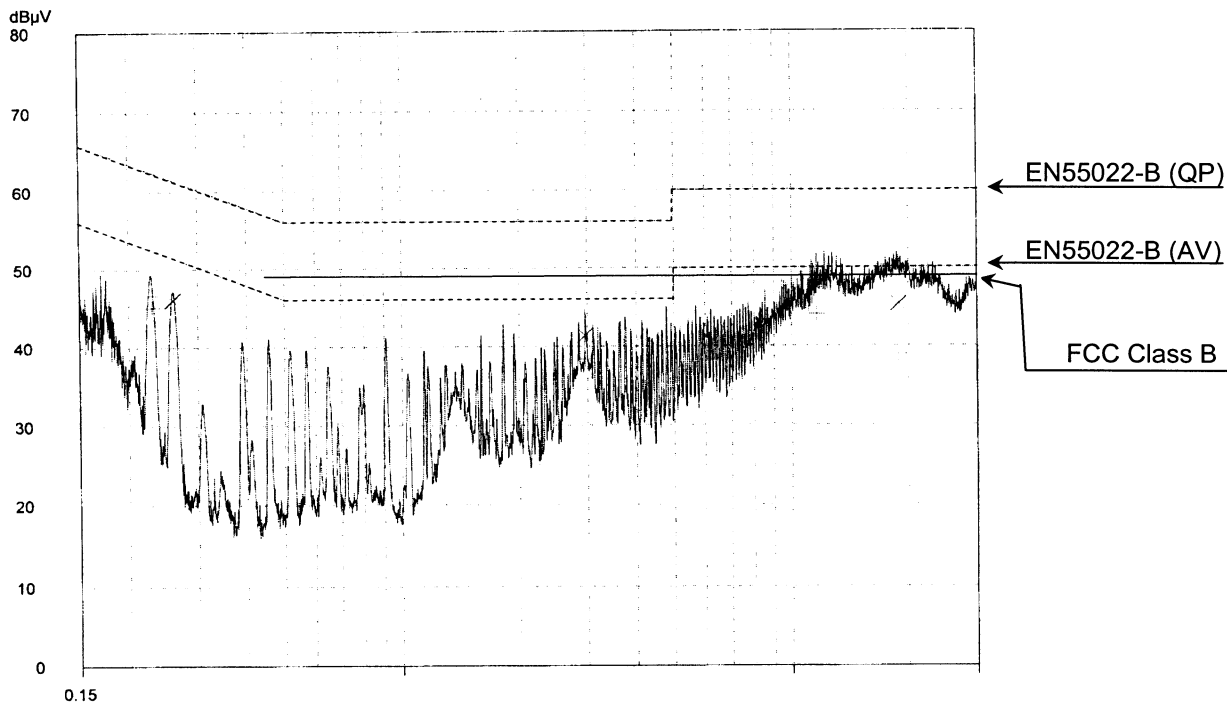
EMI
Electro-Magnetic Interference characteristics

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

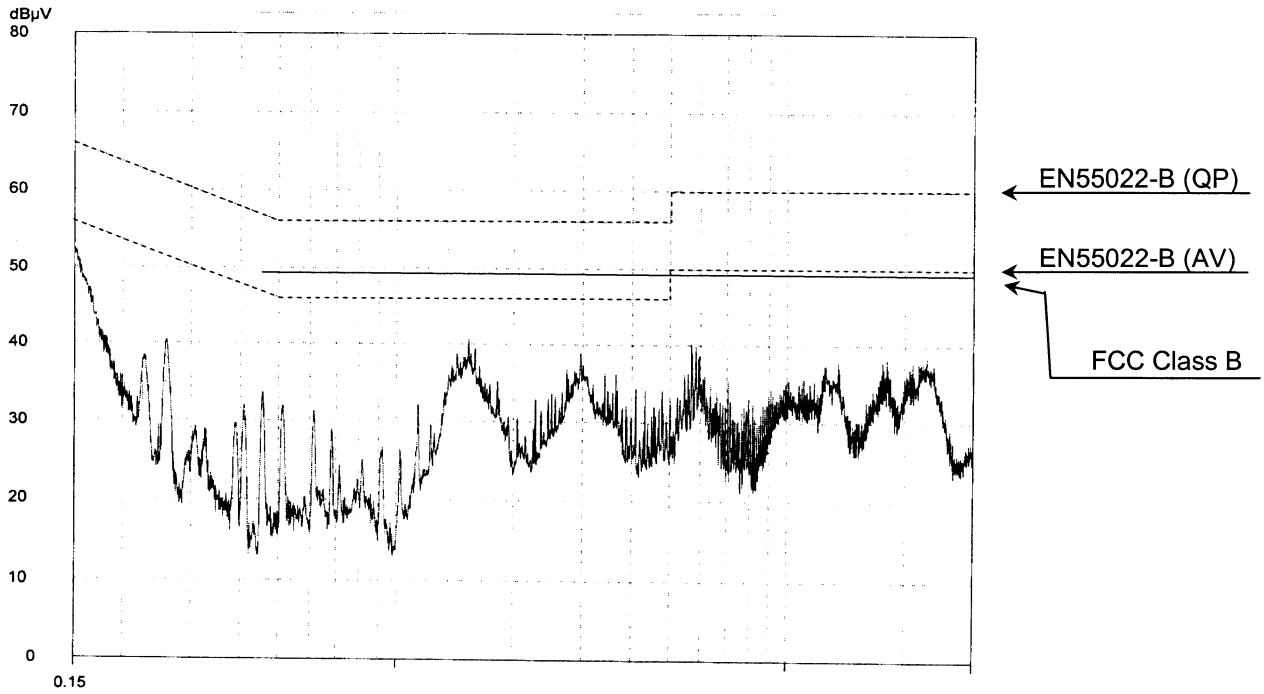
Interference wave list

PHASE	FREQ MHz	RESULT		EN55022-B				FCC Class B	
		LIMIT		MARGIN		LIMIT	MARGIN		
		QP	AV	QP	AV	QP	QP		
L	0.22502	35.01	33.48	62.63	52.63	27.62	19.15	-	-
	0.25829	38.26	34.98	61.49	51.49	23.23	16.51	-	-
N	0.22728	44.90	44.70	62.55	52.55	17.65	7.85	-	-

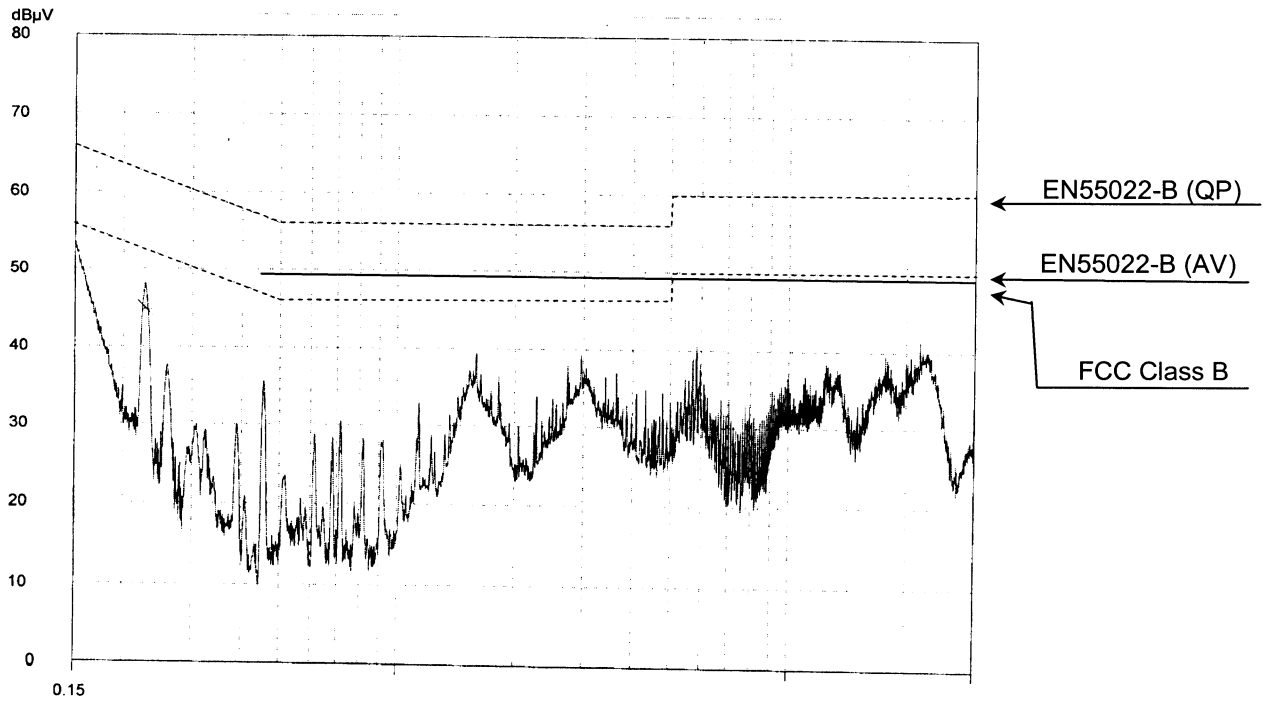
EMI
Electro-Magnetic Interference characteristics

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

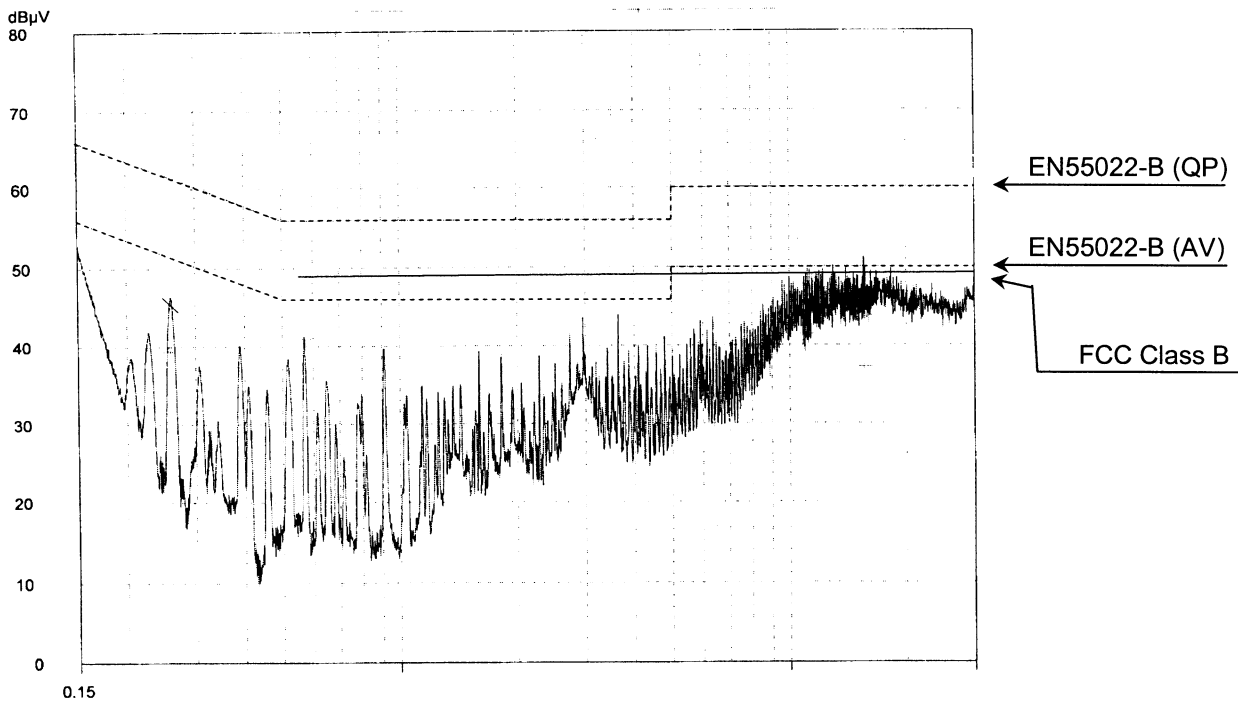
Inteference wave list

PHASE	FREQ MHz	RESULT		EN55022-B				FCC Class B	
		LIMIT		MARGIN		LIMIT	MARGIN		
		QP	AV	QP	AV	QP	AV	QP	QP
		dBµV	dBµV	dBµV	dBµV	dBµV	dBµV	dBµV	dBµV
L	0.25932	45.41	39.35	61.45	51.45	16.04	12.10	-	-
	0.56867	38.50	34.94	56.00	46.00	26.00	5.06	48.00	9.50
	11.14035	45.08	41.42	60.00	50.00	14.92	8.58	48.00	2.92
	15.55279	44.66	37.20	60.00	50.00	15.34	12.80	48.00	3.34
N	0.22774	45.37	44.90	62.53	52.53	17.16	7.63	-	-
	0.25932	42.70	37.76	61.45	51.45	18.75	13.69	-	-
	0.45464	39.63	39.68	56.79	46.79	17.16	7.11	48.00	8.37
	1.59124	42.10	40.13	56.00	46.00	22.00	5.87	48.00	5.90
	2.95618	41.28	38.51	56.00	46.00	14.72	7.49	48.00	6.72
	12.83828	44.25	37.03	60.00	46.00	15.75	12.97	48.00	3.75

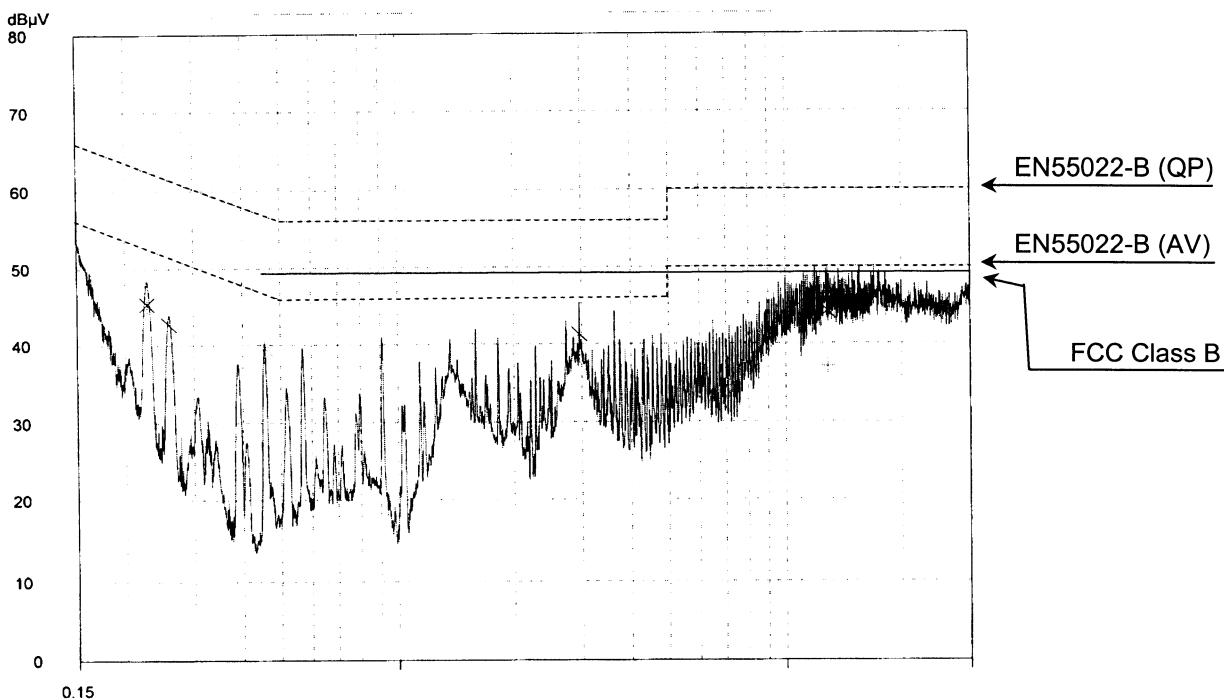
EMI
Electro-Magnetic Interference characteristics

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

Phase L



Phase N

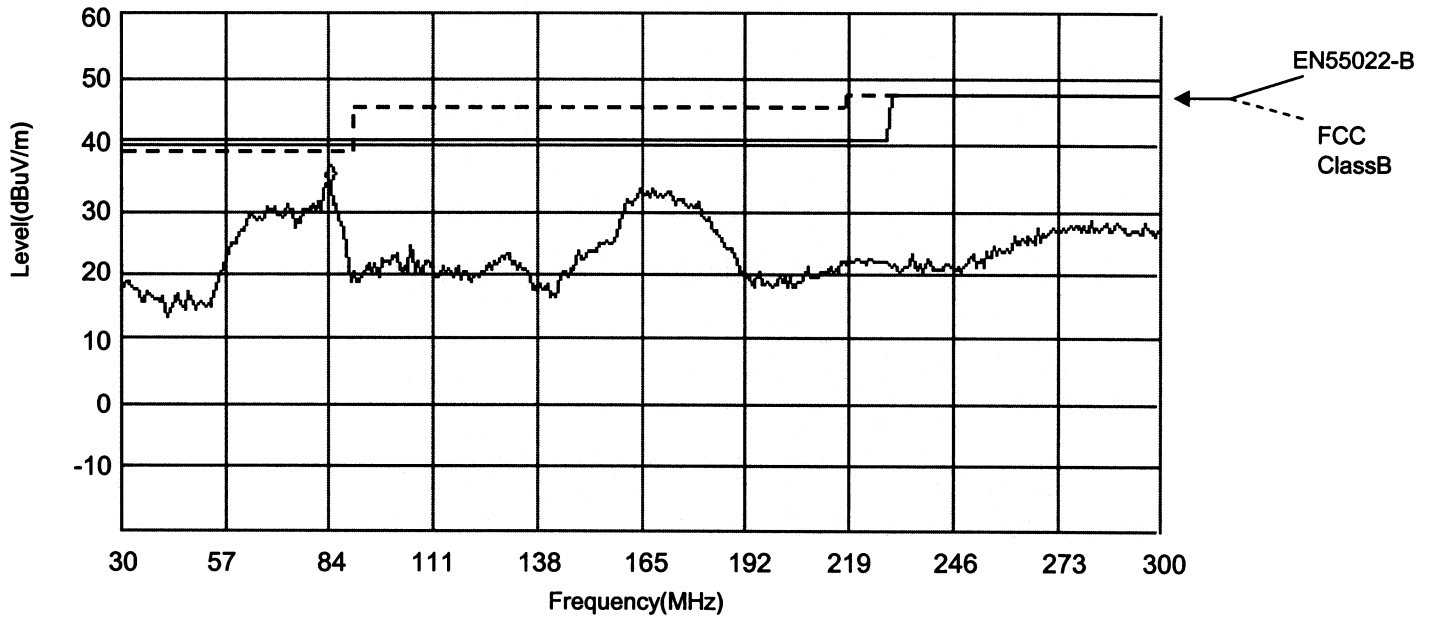


2.2 Radiated Emission

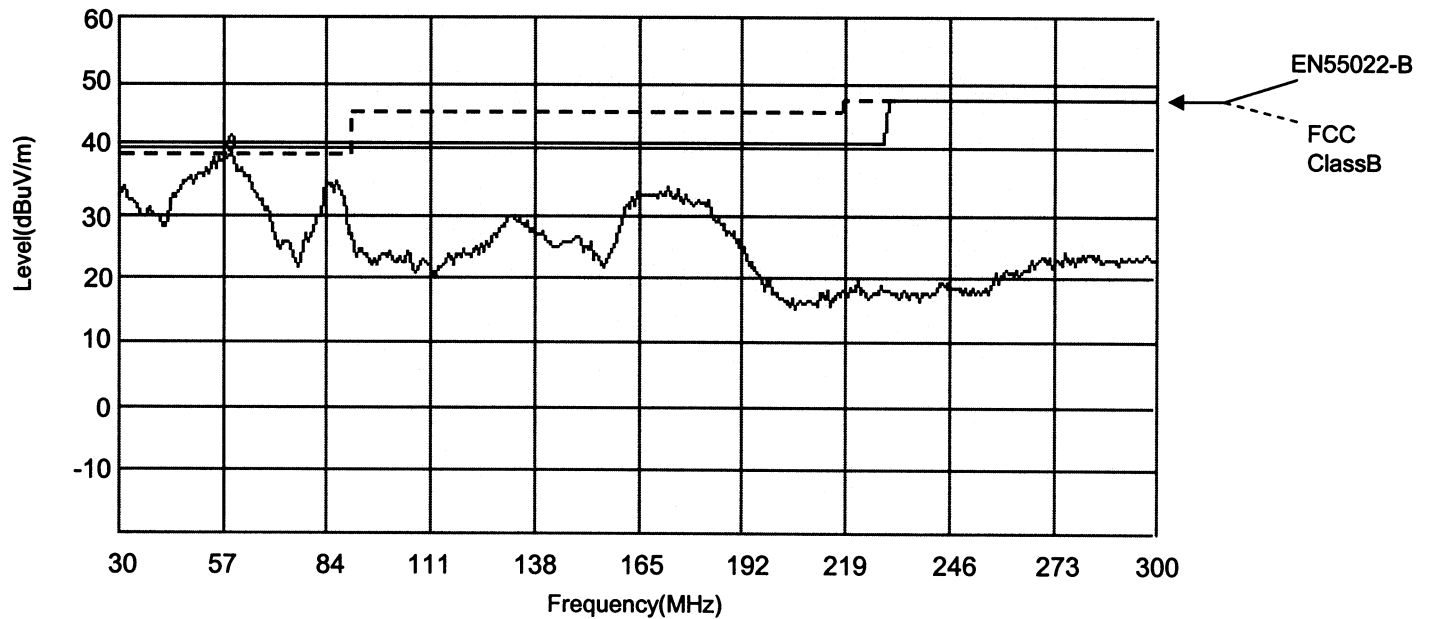
EMI
Electro-Magnetic interference characteristics

Conditions: Vin: 115VAC
Vout: 24V
Iout: 100%
Ta: 25°C

HORIZONTAL



VERTICAL



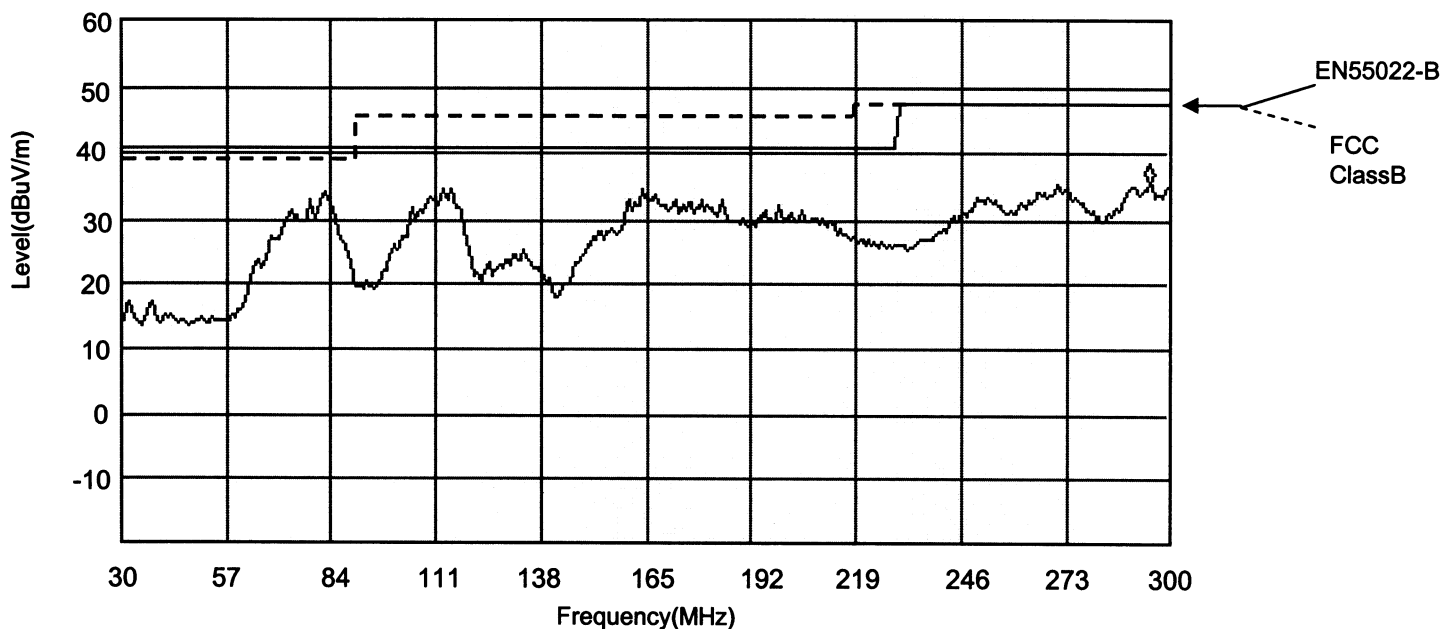
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit (dBuV/m)	QP margin (dB)
57.931917	39.06	35.54	40.50	4.96

Limits of EN55022-B are same as it VCCI-B

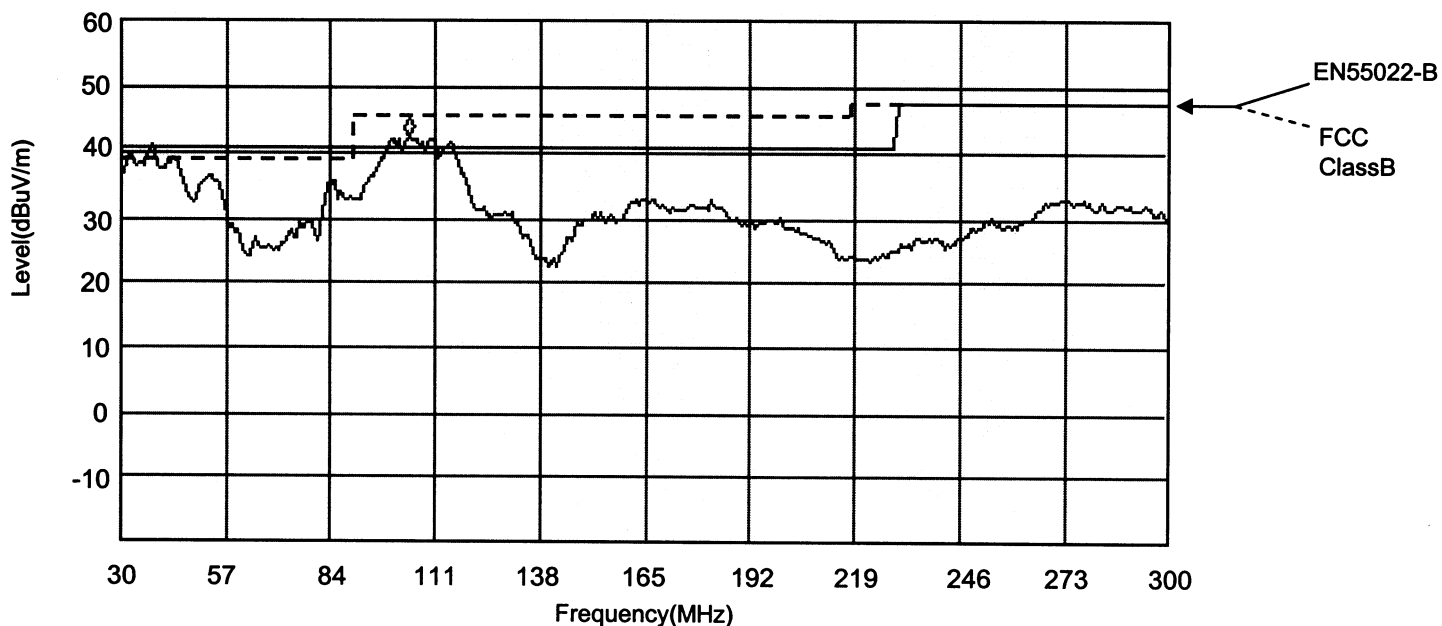
EMI
Electro-Magnetic interference characteristics

Conditions: Vin: 115VAC
Vout: 24V
Iout: 100%
Ta: 25°C

HORIZONTAL



VERTICAL



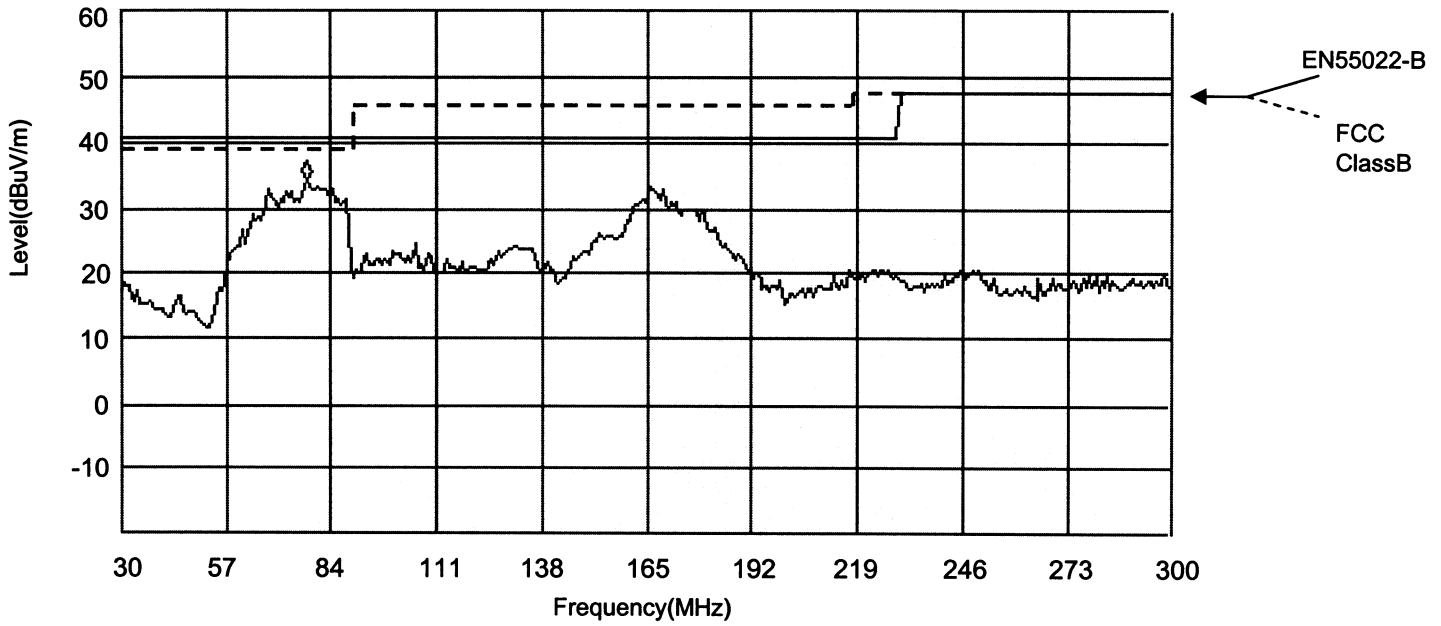
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit (dBuV/m)	QP margin (dB)
103.938259	42.92	37.2	40.50	3.3

Limits of EN55022-B are same as it VCCI-B

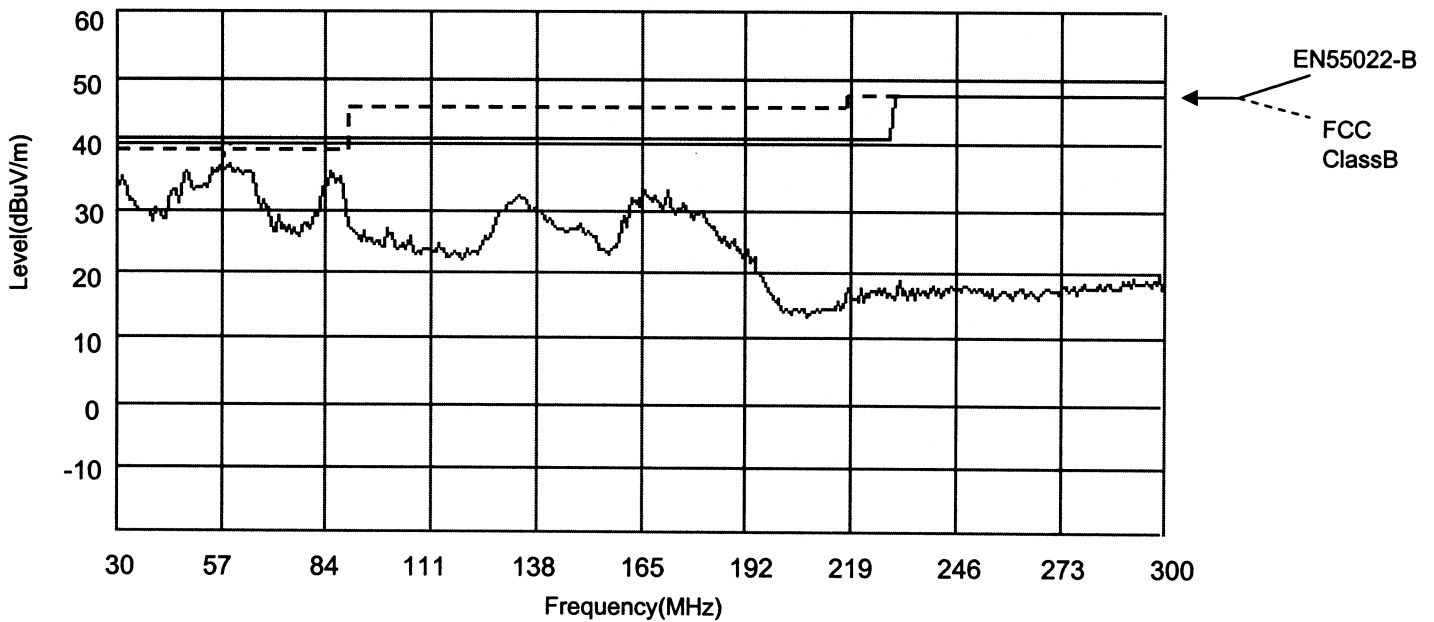
EMI
Electro-Magnetic interference characteristics

Conditions: Vin: 230VAC
Vout: 24V
Iout: 100%
Ta: 25°C

HORIZONTAL



VERTICAL

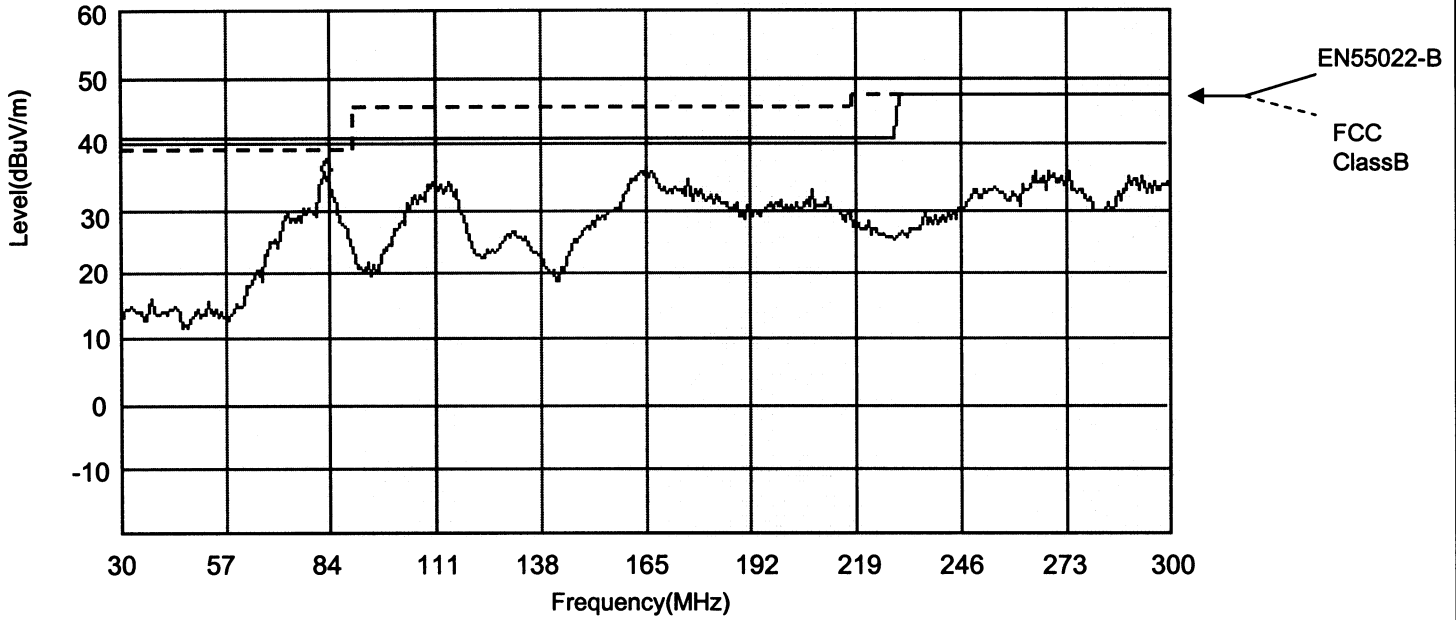


Limits of EN55022-B are same as it VCCI-B

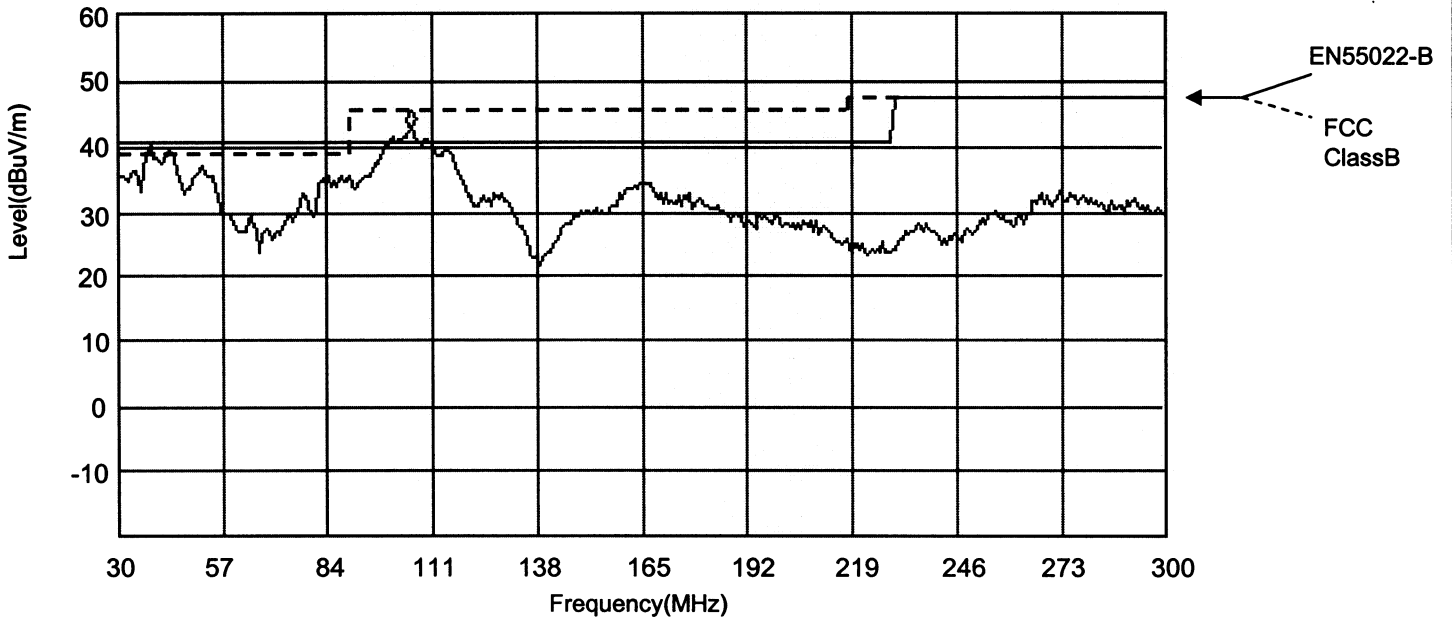
EMI
Electro-Magnetic interference characteristics

Conditions: Vin: 230VAC
Vout: 24V
Iout: 100%
Ta: 25°C

HORIZONTAL



VERTICAL



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit (dBuV/m)	QP margin (dB)
103.081061	42.51	37.68	40.50	2.82

Limits of EN55022-B are same as it VCCI-B