

## ***Nemko Korea Co., Ltd.***

300-2, Osan-Ri, Mohyun-Myun, Yongin-City, Kyungki-Do, KOREA

TEL:+82 31 322 2333

FAX:+82 31 322 2332

### **FCC EVALUATION REPORT FOR CERTIFICATION**

#### **Manufacturer:**

**Samjin Engineering Co., Ltd.**

**494-3, Youngcheon-ri, Dongtan-myun**

**Hwaseong-gun, Kyungki-do, Korea**

**Dates of Issue : April 28, 2003**

**Test Report No. : NK2CE597**

**Test Site : Nemko Korea Co., Ltd.**

**EMC site, Korea**

#### **FCC ID**

***QQVPX-820M***

#### **Applicant**

**PRIX Co., Ltd.**

**15F Dongwon Bldg, 275, Yangjae-dong**

**Seocho-gu, Seoul, Korea**

**Mr. Kim Daewon**

**Telephone No. : +82 2 3461 1603**

FCC Rule Part(s):

Part 15 & 2

Classification :

FCC Class B Device

EUT Type:

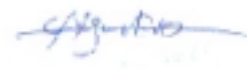
Laser FAX/Printer/Scanner

The device bearing the FCC ID specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-1992.

I attest to the accuracy of data and all measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



**Tested By : T. H. Ryu**  
**Engineer**



**Reviewed By : H.H. Kim**  
**Manager & Chief Engineer**

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## SCOPE

*Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission under FCC part 15.*

<b>Responsible Party* :</b>	PRIX Co., Ltd.
<b>Contact Person :</b>	Mr. Kim Daewon
	Tel No.: +82 2 3461 1603/ Fax No.: +82 2 3461 1628
<b>Manufacturer :</b>	Sam Jin Engineering Co., Ltd.
	494-3, Youngcheon-ri, Dongtan-myun, Hwaseong-gun, Kyungki-do, Korea

- FCC ID: QQVPX-820M
- Model: PX-820M
- \*)Alternate Model: PX-420F (\* Delete the print port )
- EUT Type: Laser FAX/Printer/Scanner
- Adapter Voltage: 110V AC, 60Hz
- Classification: FCC Class B
- Rule Part(s): FCC Part 15 & Part 2
- Test Procedure(s): ANSI C63.4 (1992)
- Dates of Test: April 21, 2003 to April 26, 2003
- Place of Tests: Nemko Korea Co., Ltd. EMC Site
- Test Report No.: NK2CE597

*\* NOTE: Please refer to the duties and responsibilities of the Responsible Party attached.*

## INTRODUCTION

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-1992) was used in determining radiated and conducted emissions emanating from **PRIX Co., Ltd.**

FCC ID : **QQVPX-820M, Laser FAX/Printer/Scanner.**

These measurement tests were conducted at **Nemko Korea Co., Ltd. EMC Laboratory**.

The site address is 300-2, Osan-Ri, Mohyun-Myun, Yongin-City, Kyungki-Do, KOREA

The area of Nemko Korea Corporation LTD. EMC Test Site is located in a mountain area at 50 kilometers (30 miles) southeast and Seoul International Airport (Kimpo Airport), 30 kilometers (18miles) south-southeast from central Seoul.

It is located in the valley surrounded by mountains in all directions where ambient radio signal conditions are quiet and a favorable area to measure the radio frequency interference on open field test site for the computing and ISM devices manufactures.

The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 on October 19, 1992.



Nemko Korea Co., Ltd.  
 OPEN AREA TEST SITE  
 300-2, Osan-Ri, Mohyun-Myun, Yongin-  
 City Kyungki-Do, KOREA 449-852  
 Tel)+82-31-322-2333  
 Fax)+82-31-322-2332

Fig. 1. The map above shows the Seoul in Korea vicinity area.

The map also shows Nemko Korea Corporation Ltd. EMC Lab and Kimpo Airport.

## ***TEST CONDITIONS & EUT INFORMATION***

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### **Operating During Test**

The EUT was connected to PC, and was operated at copy mode, print mode, scan mode and Fax mode.

### **Support Equipment**

PC	LG, Model: R70 1.8m unshielded AC power cable	S/N: N/A
Monitor	Hansol, Model: B17CF 2.0m shielded D-sub cable 1.8m unshielded AC power cable	S/N: N/A
Keyboard	Jing Mold Enterprise, Model: LKB-0107 1.8m unshielded Din cable	S/N: 10319824
Mouse	Immanuel , Model: OPM22G 1.8m unshielded Din cable	S/N: N/A
Serial Mouse	All spirit, Model: Serial mouse 1.8m unshielded Din cable	S/N: B050402
Joystick	Logitech , Model: J-ZA10 1.5m shielded cable	S/N: YED20300268
Printer	HP, Model No: Deskjet 720C 2.0m unshielded AC power cable 2.0m Shield D-sub cable	S/N: SG88R131GW

**EUT Information**

Clock	Y1(32.256MHz), Y2(32.768MHz), Y3(9.5MHz), Y4(24MHz)
Chipset(s)	U2(CXD9450), U14(KS32C65100), U31(Im4a3-32/32)
Motors	Sending motor: PM35S-48-ZKS5 /Minebea Electronics
	Receiving motor: 16PU-M004-G1ST/Minebea Electronics
*)Alternate motor	Sending motor: SMJ35-4829-A/ FDK Corporation
	Receiving motor: SMJ40-4879-A/ FDK Corporation
	PM42L-048-ZKS4D/ Minebea Electronics
Print method	Electro-Photography(laser)
Print Resolution	600dpi X 600dpi
Print Speed	8 PPM (A4)
Copier speed	4 PPM(A4)
Resolution	300dpi X 600dpi
Memory Capability	2MB DRAM
Modem speed	14.4KBPS
Power Consumption	Operating under Max 400W
Port(s)	Print(USB, Parallel), Scan(USB, Parallel), Fax(TX, RX)

## DESCRIPTION OF TESTS

### Conducted Emissions

The Line conducted emission test facility is located inside a 4 X 7 X 2.5 meter shielded enclosure.

It is manufactured by EM engineering. The shielding effectiveness of the shielded room is in accordance with MIL-STD-285 or NSA 65-6.

A 1mX 1.5M wooden table 0.8m height is placed 0.4m away from the vertical wall and 1.5m away from the side of wall of the shielded room

Rohde & Schwarz LISN and Kyoritsu LISN KNW-407 50ohm/50uH line impedance stabilization network are bonded to the shielded room.

The EUT is powered from the Rohde & Schwarz LISN and the support equipment is powered from the Kyoritsu LISN. Power to the LISN s are filtered by high-current high insertion loss Power line filters. The purpose of filter is to attenuate ambient signal interference and this filter is also bonded to shielded enclosure. All electrical cables are shielded by tinned copper zipper tubing with inner diameter of 1/2".

If DC power device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the LISNs,

All interconnecting cables more than 1 meter were shortened by non inductive bundling (serpentine fashion) to a 1 meter length.

Sufficient time for EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT. The spectrum was scanned from 150KHz to 30MHz with 20msec sweep time.

The frequency producing the maximum level was re-examined using the EMI test receiver. (Rohde & Schwarz, ESCS30).

The detector function was set to CISPR quasi-peak mode.

The bandwidth of receiver was set to 9KHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission.

Each EME reported was calibrated using the R&S signal generator.

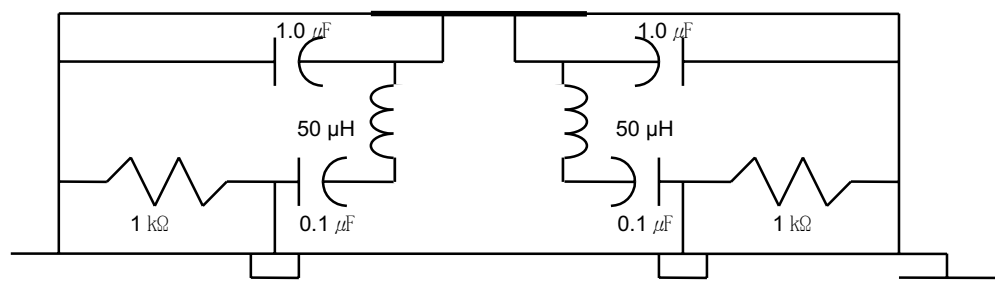


Fig. 2. LISN Schematic Diagram

## DESCRIPTION OF TESTS

### Radiated Emissions

Preliminary measurement were made indoors at 1 meter using broad band antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The Technology configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna was note for each frequency found.

The spectrum was scanned from 30 to 1000MHz using Biconical log Antenna(ARA, LPB-2520/A). Above 1GHz, log periodic antenna (Rohde Schwarz HL025:upto 18GHz) was used.

Final Measurements were made outdoors at 3 or 10m test range using Logbicon Super Antenna(Schwarzbeck, VULB9166) or log periodic antenna.( Rohde Schwarz HL025)

The test equipment was placed on a wooden table.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition.

Each frequency found during pre-scan measurements was reexamined and investigated using EMI test receiver.(ESCS30)

The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120KHz or 1MHz depending on the frequency or type of signal.

The half wave dipole antenna was tuned to the frequency found during preliminary radiated measurements.

The EUT support equipment and interconnecting cables were re configured to the setup producing the maximum emission for the frequency and were placed on top of a 0.8m high non- metallic 1.0X 1.5 meter table.

The EUT, support equipment and interconnecting cables were re-arranged and manipulated to maximize each EME emission.

The turn table containing the Technology was rotated; the antenna height was varied 1 to 4meter and stopped at the azimuth or height producing the maximum emission.

Each EME reported was calibrated using the R/S signal generator.

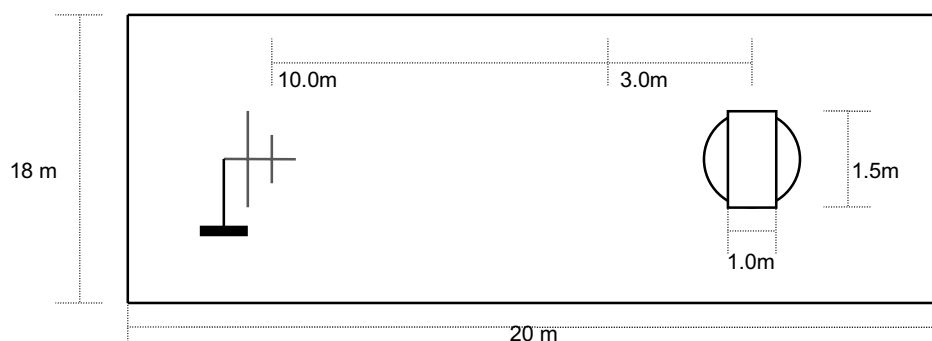


Fig. 3. Dimensions of Outdoor Test Site

# TEST DATA

## Conducted Emissions

FCC ID : QQVPX-820M

\* Used the Motor : PM35S-48-ZKS5, 16PU-M04-G1ST

### 1. Test Mode : connected to PC, and was operated at copy mode

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.15	49.7	39.8	N	66.0	56.0	16.3	16.2
0.27	48.0	42.0	L	61.3	51.3	13.3	9.3
0.34	47.7	40.3	L	59.2	49.2	11.5	8.9
10.81	46.1	36.4	N	60.0	50.0	13.9	13.6
11.09	46.6	37.2	L	60.0	50.0	13.4	12.8
11.13	47.5	37.2	L	60.0	50.0	12.5	12.8

### 2. Test Mode : connected to PC, and was operated at Fax(Receive) mode

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.15	39.5	39.1	N	66.0	56.0	26.5	16.9
0.20	46.8	38.8	L	63.6	53.6	16.8	14.8
0.34	43.2	34.3	L	59.3	49.3	16.1	15.0
7.35	36.1	32.1	L	60.0	50.0	23.9	17.9
11.26	42.3	34.2	N	60.0	50.0	17.7	15.8
17.70	36.1	34.6	L	60.0	50.0	23.9	15.4

### 3. Test Mode : connected to PC, and was operated at Fax(Transmit) mode

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.20	48.7	39.4	L	63.6	53.6	14.9	14.2
0.34	52.7	42.1	N	59.2	49.2	6.5	7.1
6.89	34.4	31.0	L	60.0	50.0	25.6	19.0
7.58	34.3	31.0	N	60.0	50.0	25.7	19.0
11.17	46.5	36.2	N	60.0	50.0	13.5	13.8
17.70	37.3	32.9	L	60.0	50.0	22.7	17.1

**4. Test Mode : connected to PC, and was operated at Scan(parallel) mode**

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.15	44.7	42.0	N	66.0	56.0	21.3	14.0
0.34	48.1	36.8	N	59.2	49.2	11.1	12.4
4.00	27.7	26.9	L	56.0	46.0	28.3	19.1
7.73	32.5	22.6	N	60.0	50.0	27.5	27.4
10.87	43.5	34.1	N	60.0	50.0	16.5	15.9
17.69	34.1	37.4	N	60.0	50.0	25.9	12.6

**5. Test Mode : connected to PC, and was operated at Scan(USB) mode**

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.21	50.0	40.8	N	63.4	53.4	13.4	12.6
0.34	48.5	38.9	N	59.2	49.2	10.7	10.3
7.67	33.3	29.9	N	60.0	50.0	26.7	20.1
10.17	33.6	35.6	N	60.0	50.0	26.4	14.4
17.14	30.9	29.5	N	60.0	50.0	29.1	20.5
17.70	37.5	34.7	L	60.0	50.0	22.5	15.3

**6. Test Mode : connected to PC, and was operated at Print(USB) mode**

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.27	51.4	40.5	N	61.1	51.1	9.7	10.6
0.34	50.8	36.7	N	59.2	49.2	8.4	12.5
0.61	27.7	22.9	N	56.0	46.0	28.3	23.1
7.06	29.5	21.2	N	60.0	50.0	30.5	28.8
10.86	43.1	35.4	N	60.0	50.0	16.9	14.6
16.66	32.0	31.9	L	60.0	50.0	28.0	18.1

**7. Test Mode : connected to PC, and was operated at Print(Parallel) mode**

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.16	48.5	41.8	L	65.7	55.7	17.2	13.9
0.27	51.3	40.3	N	61.1	51.1	9.8	10.8
0.34	48.7	37.7	L	59.3	49.3	10.6	11.6
6.95	35.2	30.0	L	60.0	50.0	24.8	20.0
11.26	43.4	35.5	L	60.0	50.0	16.6	14.5
18.24	35.0	35.0	N	60.0	50.0	25.0	15.0

**NOTES:**

1. Measurements using CISPR quasi-peak mode
2. All modes of operation were investigated and the worst -case emission are reported. See attached Plots.
3. The limit for Class B device is on the FCC part section 15.107 (a).
4. LINE : L =Line , N = Neutral




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 Tested by **T. H. Ryu**

# TEST DATA

## Conducted Emissions

FCC ID : QQVPX-820M

\* Used the Motor: SMJ35-4829-A, SMJ40-4879-A

### 1. Test Mode : connected to PC, and was operated at copy mode

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.15	50.0	41.7	N	66.0	56.0	16.0	14.3
0.27	48.4	38.8	L	61.1	51.1	12.7	12.3
0.34	46.7	35.1	L	59.3	49.3	12.6	14.2
10.43	38.3	30.3	N	60.0	50.0	21.7	19.7
10.74	46.3	35.6	L	60.0	50.0	13.7	14.4
17.70	41.3	38.4	L	60.0	50.0	18.7	11.6

### 2. Test Mode : connected to PC, and was operated at Fax(Receive) mode

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.27	47.5	39.8	N	61.1	51.1	13.6	11.3
0.34	47.8	36.5	N	59.2	49.2	11.4	12.7
7.53	37.9	33.6	L	60.0	50.0	22.1	16.4
10.79	46.3	35.5	L	60.0	50.0	13.7	14.5
17.70	40.5	39.0	L	60.0	50.0	19.5	11.0
21.67	41.8	39.9	N	60.0	50.0	18.2	10.1

### 3. Test Mode : connected to PC, and was operated at Fax(Transmit) mode

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.27	48.1	40.5	L	61.1	51.1	13.0	10.6
0.34	47.1	35.5	L	59.2	49.2	12.1	13.7
2.76	25.0	22.0	N	56.0	46.0	31.0	24.0
7.59	37.3	33.1	L	60.0	50.0	22.7	16.9
10.08	46.1	35.3	L	60.0	50.0	13.9	14.7
21.05	39.3	38.5	N	60.0	50.0	20.7	11.5

**4. Test Mode : connected to PC, and was operated at Scan(parallel) mode**

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.21	48.1	40.8	N	63.4	53.4	15.3	12.6
0.27	48.4	41.5	L	61.1	51.1	12.7	9.6
0.34	47.8	36.5	N	59.2	49.2	11.4	12.7
7.54	37.0	32.6	N	60.0	50.0	23.0	17.4
10.75	45.7	35.8	N	60.0	50.0	14.3	14.2
17.70	41.8	40.1	N	60.0	50.0	18.2	9.9

**5. Test Mode : connected to PC, and was operated at Scan(USB) mode**

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.21	52.4	41.5	L	63.4	53.4	11.0	11.9
0.34	48.9	39.2	L	59.2	49.2	10.3	10.0
0.61	29.2	27.8	N	56.0	46.0	26.8	18.2
7.53	37.1	33.1	N	60.0	50.0	22.9	16.9
10.78	46.6	36.1	L	60.0	50.0	13.4	13.9
21.05	40.7	40.1	N	60.0	50.0	19.3	9.9

**6. Test Mode : connected to PC, and was operated at Print(USB) mode**

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.27	51.6	39.3	L	61.1	51.1	9.5	11.8
0.34	50.7	38.2	N	59.2	49.2	8.5	11.0
0.61	28.6	24.9	L	56.0	46.0	27.4	21.1
7.53	37.5	33.1	N	60.0	50.0	22.5	16.9
10.78	45.5	35.8	L	60.0	50.0	14.5	14.2
21.05	39.4	37.3	L	60.0	50.0	20.6	12.7

**7. Test Mode : connected to PC, and was operated at Print(Parallel) mode**

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.21	50.9	40.1	L	63.4	53.4	12.5	13.3
0.27	49.9	39.5	N	61.1	51.1	11.2	11.6
0.34	51.5	38.5	N	59.2	49.2	7.7	10.7
10.76	46.0	35.9	L	60.0	50.0	14.0	14.1
17.70	41.6	35.3	N	60.0	50.0	18.4	14.7
21.06	38.5	37.4	L	60.0	50.0	21.5	12.6

**NOTES:**

1. Measurements using CISPR quasi-peak mode
2. All modes of operation were investigated and the worst -case emission are reported. See attached Plots.
3. The limit for Class B device is on the FCC part section 15.107 (a).
4. LINE : L =Line , N = Neutral




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 Tested by **T. H. Ryu**

# TEST DATA

## Conducted Emissions

FCC ID : QQVPX-820M

\* Used the Motor: PM35S-48-ZKS5, PM42L-048-ZKS4D

### 1. Test Mode : connected to PC, and was operated at copy mode

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.15	48.9	40.5	N	66.0	56.0	17.1	15.5
0.20	50.5	37.9	L	63.6	53.6	13.1	15.7
0.34	49.3	35.9	L	59.3	49.3	10.0	13.4
10.94	31.5	23.0	N	60.0	50.0	28.5	27.0
13.27	32.6	23.9	L	60.0	50.0	27.4	26.1
21.47	33.3	32.9	L	60.0	50.0	26.7	17.1

### 2. Test Mode : connected to PC, and was operated at Fax(Receive) mode

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.15	42.0	39.7	L	66.0	56.0	24.0	16.3
0.20	46.2	39.3	N	63.6	53.6	17.4	14.3
0.34	43.7	32.3	N	59.3	49.3	15.6	17.0
7.56	36.3	32.4	L	60.0	50.0	23.7	17.6
10.51	39.7	33.3	N	60.0	50.0	20.3	16.7
17.70	35.4	33.7	L	60.0	50.0	24.6	16.3

### 3. Test Mode : connected to PC, and was operated at Fax(Transmit) mode

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.21	46.0	40.0	N	63.4	53.4	17.4	13.4
0.34	43.7	32.2	L	59.3	49.3	15.6	17.1
2.44	25.2	21.3	L	56.0	46.0	30.8	24.7
7.54	36.7	33.0	L	60.0	50.0	23.3	17.0
10.61	41.3	33.3	L	60.0	50.0	18.7	16.7
21.11	33.4	32.8	L	60.0	50.0	26.6	17.2

**4. Test Mode : connected to PC, and was operated at Scan(parallel) mode**

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.15	43.8	41.7	N	66.0	56.0	22.2	14.3
0.27	49.1	41.4	L	61.1	51.1	12.0	9.7
0.34	51.3	38.4	L	59.2	49.2	7.9	10.8
0.61	29.1	26.9	L	56.0	46.0	26.9	19.1
11.13	27.9	21.0	L	60.0	50.0	32.1	29.0
22.25	28.4	27.8	N	60.0	50.0	31.6	22.2

**5. Test Mode : connected to PC, and was operated at Scan(USB) mode**

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.20	50.3	40.2	N	63.6	53.6	13.3	13.4
0.34	46.3	33.0	N	59.3	49.3	13.0	16.3
0.61	27.7	19.4	N	56.0	46.0	28.3	26.6
3.18	23.9	12.6	L	56.0	46.0	32.1	33.4
12.66	35.6	32.9	N	60.0	50.0	24.4	17.1
21.10	40.9	38.7	N	60.0	50.0	19.1	11.3

**6. Test Mode : connected to PC, and was operated at Print(USB) mode**

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.15	48.5	39.9	L	66.0	56.0	17.5	16.1
0.20	48.8	39.2	N	63.6	53.6	14.8	14.4
0.34	51.3	38.5	N	59.2	49.2	7.9	10.7
7.93	26.8	20.5	N	60.0	50.0	33.2	29.5
12.37	27.1	20.6	L	60.0	50.0	32.9	29.4
22.34	36.5	32.6	L	60.0	50.0	23.5	17.4

**7. Test Mode : connected to PC, and was operated at Print(Parallel) mode**

Frequency (MHz)	Level(dB $\mu$ V)		Line	Limit(dB $\mu$ V)		Margin(dBuV)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.15	48.8	41.0	L	66.0	56.0	17.2	15.0
0.34	52.2	40.5	L	59.2	49.2	7.0	8.7
0.61	27.5	24.0	N	56.0	46.0	28.5	22.0
10.89	29.6	21.8	L	60.0	50.0	30.4	28.2
13.00	33.8	25.0	N	60.0	50.0	26.2	25.0
22.47	28.5	28.5	L	60.0	50.0	31.5	21.5

**NOTES:**

1. Measurements using CISPR quasi-peak mode
2. All modes of operation were investigated and the worst -case emission are reported. See attached Plots.
3. The limit for Class B device is on the FCC part section 15.107 (a).
4. LINE : L =Line , N = Neutral




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 Tested by **T. H. Ryu**

## TEST DATA

### Radiated Emissions

FCC ID : QQVPX-820M

\* Used the Motor : PM35S-48-ZKS5, 16PU-M004-G1ST

1. Test Mode : connected to PC, and was operated at copy mode.

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
30.01	52.8	V	-23.1	29.7	40.0	10.3
129.00	54.1	H	-15.9	38.2	43.5	5.3
217.72	46.5	H	-13.3	33.2	46.0	12.8
304.03	48.5	H	-11.2	37.3	46.0	8.7
373.25	45.9	H	-9.4	36.5	46.0	9.5
642.12	38.0	H	-2.5	35.5	46.0	10.5

2. Test Mode : connected to PC, and was operated at print(parallel) mode.

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
30.01	52.2	V	-23.1	29.1	40.0	10.9
156.20	37.0	H	-12.7	24.3	43.5	19.2
304.10	49.2	H	-11.2	38.0	46.0	8.0
373.35	48.1	H	-9.4	38.7	46.0	7.3
603.27	31.0	H	-3.5	27.5	46.0	18.5

3. Test Mode : connected to PC, and was operated at print(USB) mode.

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
124.36	43.6	H	-16.6	27.0	43.5	16.5
130.02	49.4	H	-15.9	33.5	43.5	10.0
161.25	43.2	H	-12.9	30.3	43.5	13.2
305.01	49.7	H	-11.2	38.5	46.0	7.5
373.35	46.5	H	-9.4	37.1	46.0	8.9
432.05	40.7	H	-7.9	32.8	46.0	13.2

**4. Test Mode : connected to PC, and was operated at scan(parallel) mode.**

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
128.95	47.4	H	-15.9	31.5	43.5	12.0
161.25	42.4	H	-12.9	29.5	43.5	14.0
304.46	43.8	H	-11.2	32.6	46.0	13.4
373.40	46.9	H	-9.4	37.5	46.0	8.5
433.50	35.6	H	-7.9	27.7	46.0	18.3

**5. Test Mode : connected to PC, and was operated at scan(USB) mode.**

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
124.25	43.1	H	-16.6	26.5	43.5	17.0
128.95	47.7	H	-15.9	31.8	43.5	11.7
161.26	41.9	H	-12.9	29.0	43.5	14.5
304.34	41.4	H	-11.2	30.2	46.0	15.8

**6. Test Mode : connected to PC, and was operated at FAX(Receive) mode.**

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
30.00	51.5	V	-23.1	28.4	40.0	11.6
155.22	36.6	H	-12.7	23.9	43.5	19.6
304.05	43.2	H	-11.2	32.0	46.0	14.0
373.35	47.0	H	-9.4	37.6	46.0	8.4
503.95	40.4	V	-6.2	34.2	46.0	11.8

**7. Test Mode : connected to PC, and was operated at FAX(Transmit) mode.**

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
30.05	49.7	V	-23.1	26.6	40.0	13.4
155.21	42.8	H	-12.7	30.1	43.5	13.4
303.95	40.9	H	-11.2	29.7	46.0	16.3
373.40	47.4	H	-9.4	38.0	46.0	8.0
603.25	31.7	H	-3.5	28.2	46.0	17.8

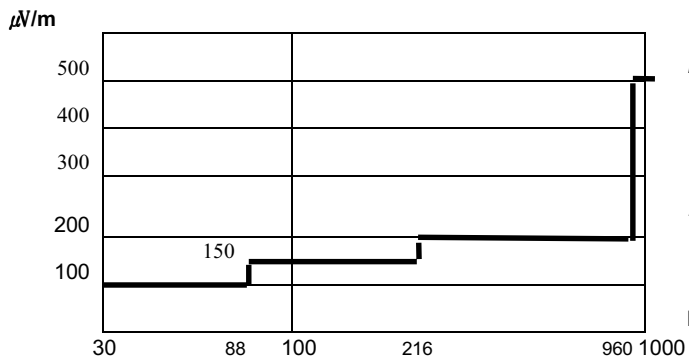


Fig. 4. Limits at 3 meters

**NOTES:**

**1. All modes of operation were investigated the worst-case emission are reported.**

**2. The radiated limits are shown on Figure 4.**

**Above 1GHz the limit is 500 μV/m.**

**NOTES:**

**1. \*Pol. H =Horizontal V=Vertical**

**2. \*\*AF+CL+Amp. = Antenna Factor + Cable Loss + Amplifier.**

**3. Measurements using CISPR quasi-peak mode. Above 1GHz, peak detector function mode is used using a resolution bandwidth of 1MHz and a video bandwidth of 1MHz. The peak level complies with the average limit. Peak mode is used with linearly polarized horn antenna and low-loss microwave cable.**

Tested by **T. H. Ryu**

## TEST DATA

### Radiated Emissions

FCC ID : QQVPX-820M

\* Used the Motor: SMJ35-4829-A, SMJ40-4879-A

1. Test Mode : connected to PC, and was operated at copy mode.

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
120.56	52.3	H	-17.2	35.1	43.5	8.4
128.12	54.0	H	-15.9	38.1	43.5	5.4
228.15	51.5	H	-13.0	38.5	46.0	7.5
375.01	40.9	H	-9.4	31.5	46.0	14.5
384.03	35.6	H	-9.1	26.5	46.0	19.5

2. Test Mode : connected to PC, and was operated at print(parallel) mode.

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
120.86	51.2	H	-17.2	34.0	43.5	9.5
129.01	50.4	H	-15.9	34.5	43.5	9.0
228.04	51.8	H	-13.0	38.8	46.0	7.2
374.30	41.6	H	-9.4	32.2	46.0	13.8
384.05	40.6	H	-9.1	31.5	46.0	14.5

3. Test Mode : connected to PC, and was operated at print(USB) mode.

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
120.96	50.0	H	-17.2	32.8	43.5	10.7
129.02	51.0	H	-15.9	35.1	43.5	8.4
228.04	52.1	H	-13.0	39.1	46.0	6.9
374.36	43.5	H	-9.4	34.1	46.0	11.9
384.05	40.6	H	-9.1	31.5	46.0	14.5

**4. Test Mode : connected to PC, and was operated at scan(parallel) mode.**

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
129.02	22.1	H	-15.9	6.2	43.5	37.3
228.04	49.2	H	-13.0	36.2	46.0	9.8
249.56	48.6	H	-12.5	36.1	46.0	9.9
305.15	46.6	H	-11.2	35.4	46.0	10.6
388.91	35.1	H	-9.0	26.1	46.0	19.9

**5. Test Mode : connected to PC, and was operated at scan(USB) mode.**

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
120.86	51.3	H	-17.2	34.1	43.5	9.4
125.51	46.7	H	-16.6	30.1	43.5	13.4
129.05	50.4	H	-15.9	34.5	43.5	9.0
228.05	48.5	H	-13.0	35.5	46.0	10.5
245.00	44.6	H	-12.6	32.0	46.0	14.0
376.05	37.3	H	-9.3	28.0	46.0	18.0

**6. Test Mode : connected to PC, and was operated at FAX(Receive) mode.**

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
212.36	35.9	H	-13.4	22.5	43.5	21.0
220.65	43.7	H	-13.2	30.5	46.0	15.5
304.04	36.6	H	-11.2	25.4	46.0	20.6
318.52	31.8	H	-10.8	21.0	46.0	25.0
304.05	48.4	H	-11.2	37.2	46.0	8.8

**7. Test Mode : connected to PC, and was operated at FAX(Transmit) mode.**

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
212.36	33.6	H	-13.4	20.2	43.5	23.3
276.22	40.0	H	-11.9	28.1	46.0	17.9
304.05	47.5	H	-11.2	36.3	46.0	9.7
418.77	36.8	H	-8.3	28.5	46.0	17.5

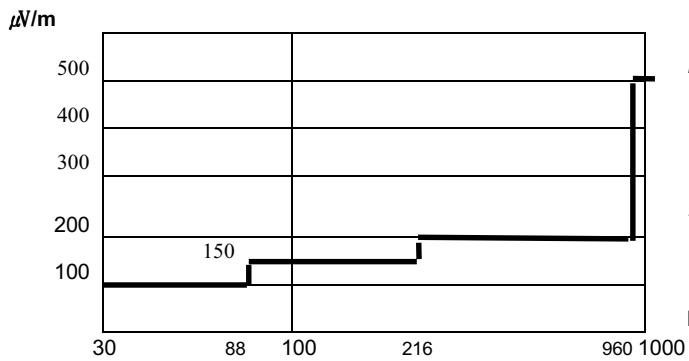


Fig. 4. Limits at 3 meters

**NOTES:**

**1. All modes of operation were investigated the worst-case emission are reported.**

**2. The radiated limits are shown on Figure 4.**

**Above 1GHz the limit is 500 μV/m.**

**NOTES:**

**1. \*Pol. H =Horizontal V=Vertical**

**2. \*\*AF+CL+Amp. = Antenna Factor + Cable Loss + Amplifier.**

**3. Measurements using CISPR quasi-peak mode. Above 1GHz, peak detector function mode is used using a resolution bandwidth of 1MHz and a video bandwidth of 1MHz. The peak level complies with the average limit. Peak mode is used with linearly polarized horn antenna and low-loss microwave cable.**

Tested by **T. H. Ryu**

## TEST DATA

### Radiated Emissions

FCC ID : QQVPX-820M

\* Used the Motor: PM35S-48-ZKS5, PM42L-048-ZKS4D

1. Test Mode : connected to PC, and was operated at copy mode.

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
144.24	43.5	V	-13.5	30.0	43.5	13.5
171.25	42.6	V	-13.1	29.5	43.5	14.0
255.53	41.4	H	-12.4	29.0	46.0	17.0
306.45	47.2	H	-11.1	36.1	46.0	9.9
338.65	41.5	H	-10.3	31.2	46.0	14.8
380.25	38.2	H	-9.2	29.0	46.0	17.0

2. Test Mode : connected to PC, and was operated at print(parallel) mode.

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
179.43	45.3	V	-17.2	28.1	43.5	15.4
216.53	39.3	H	-15.9	23.4	46.0	22.6
304.05	49.4	H	-13.0	36.4	46.0	9.6
380.05	43.4	H	-9.4	34.0	46.0	12.0

3. Test Mode : connected to PC, and was operated at print(USB) mode.

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
193.25	44.1	H	-13.6	30.5	43.5	13.0
304.04	48.7	H	-11.2	37.5	46.0	8.5
306.65	44.8	H	-11.1	33.7	46.0	12.3
313.25	43.8	H	-11.0	32.8	46.0	13.2
390.25	47.1	H	-9.0	38.1	46.0	7.9
445.25	34.0	H	-7.6	26.4	46.0	19.6

**4. Test Mode : connected to PC, and was operated at scan(parallel) mode.**

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
161.25	43.4	H	-12.9	30.5	43.5	13.0
218.25	38.3	H	-13.3	25.0	46.0	21.0
304.04	48.8	H	-11.2	37.6	46.0	8.4
418.86	35.9	H	-8.3	27.6	46.0	18.4

**5. Test Mode : connected to PC, and was operated at scan(USB) mode.**

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
161.26	43.5	H	-12.9	30.6	43.5	12.9
217.72	37.6	H	-13.3	24.3	46.0	21.7
304.04	47.6	H	-11.2	36.4	46.0	9.6
418.85	37.2	H	-8.3	28.9	46.0	17.1

**6. Test Mode : connected to PC, and was operated at FAX(Receive) mode.**

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
212.35	36.0	H	-13.4	22.6	43.5	20.9
219.75	41.3	H	-13.2	28.1	46.0	17.9
276.05	37.6	H	-11.2	26.4	46.0	19.6
304.04	49.1	H	-10.8	38.3	46.0	7.7
318.52	40.1	H	-11.2	28.9	46.0	17.1
408.30	28.9	H	-8.5	20.4	46.0	25.6

**7. Test Mode : connected to PC, and was operated at FAX(Transmit) mode.**

Frequency (MHz)	Reading (dB $\mu$ N)	Pol* (H/V)	AF+CL+Amp (dB)**	Result (dB $\mu$ N/m)	Limit (dB $\mu$ N/m)	Margin (dB)
212.36	35.4	H	-13.4	22.0	43.5	21.5
276.25	38.4	H	-11.9	26.5	46.0	19.5
304.04	47.5	H	-11.2	36.3	46.0	9.7
418.87	37.1	H	-8.3	28.8	46.0	17.2

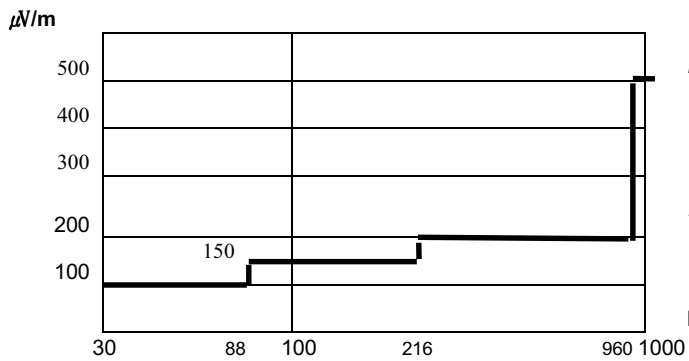


Fig. 4. Limits at 3 meters

**NOTES:**

**1. All modes of operation were investigated the worst-case emission are reported.**

**2. The radiated limits are shown on Figure 4.**

**Above 1GHz the limit is 500 μV/m.**

**NOTES:**

**1. \*Pol. H =Horizontal V=Vertical**

**2. \*\*AF+CL+Amp. = Antenna Factor + Cable Loss + Amplifier.**

**3. Measurements using CISPR quasi-peak mode. Above 1GHz, peak detector function mode is used using a resolution bandwidth of 1MHz and a video bandwidth of 1MHz. The peak level complies with the average limit. Peak mode is used with linearly polarized horn antenna and low-loss microwave cable.**

Tested by **T. H. Ryu**

## ***PLOTS OF EMISSIONS***

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# PRIX CO.,LTD.

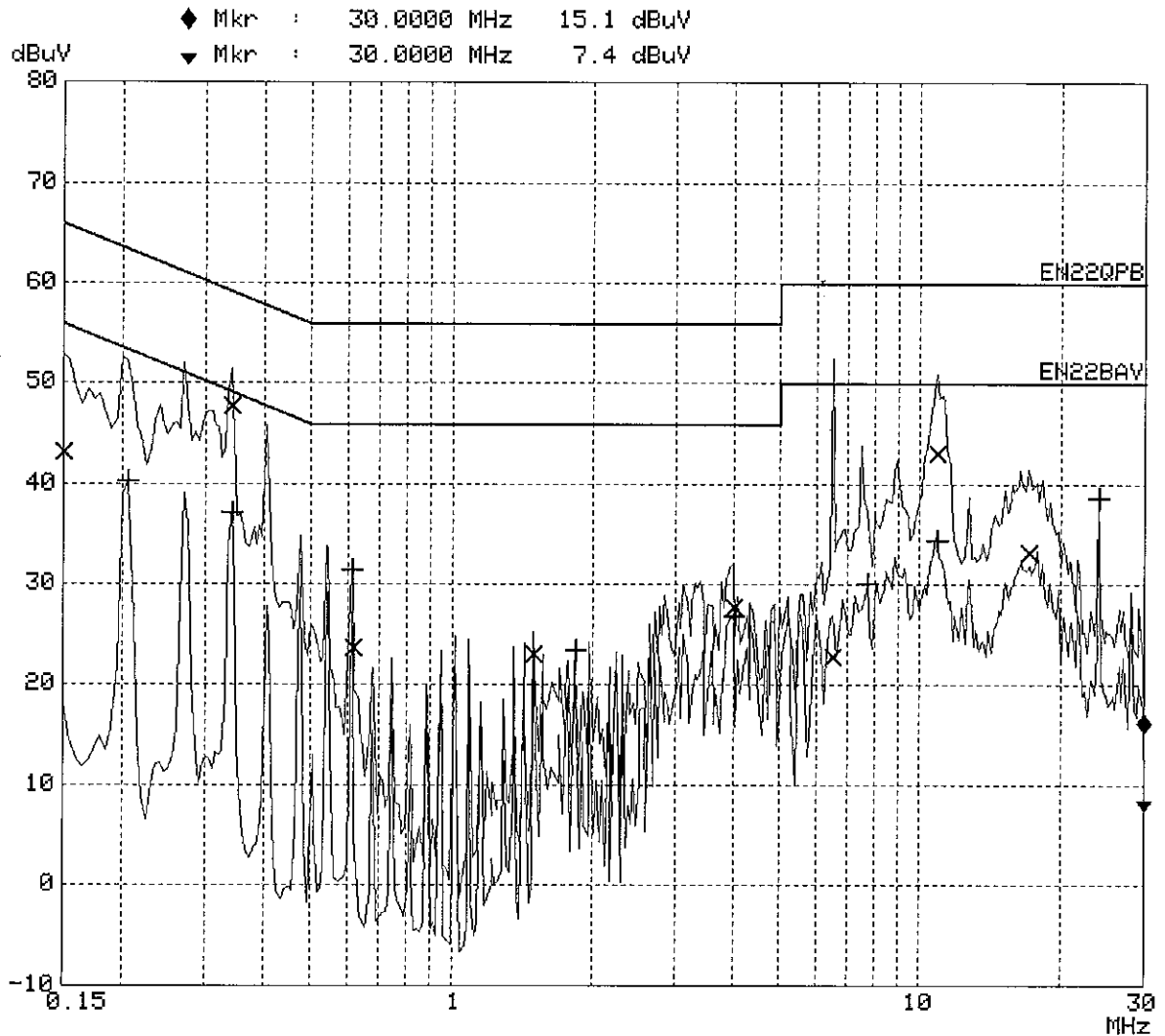
EUT: PX-820M  
Manuf: PRIX CO.,LTD.  
Op Cond: SCAN MODE(PARALLEL)  
Test Spec: FCC PART 15 CLASS B  
Comment: NK-2C-E-599  
LINE : LINE\_PE  
File name: 599\_5L.RES  
Date: 21. Apr 03 14:12

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

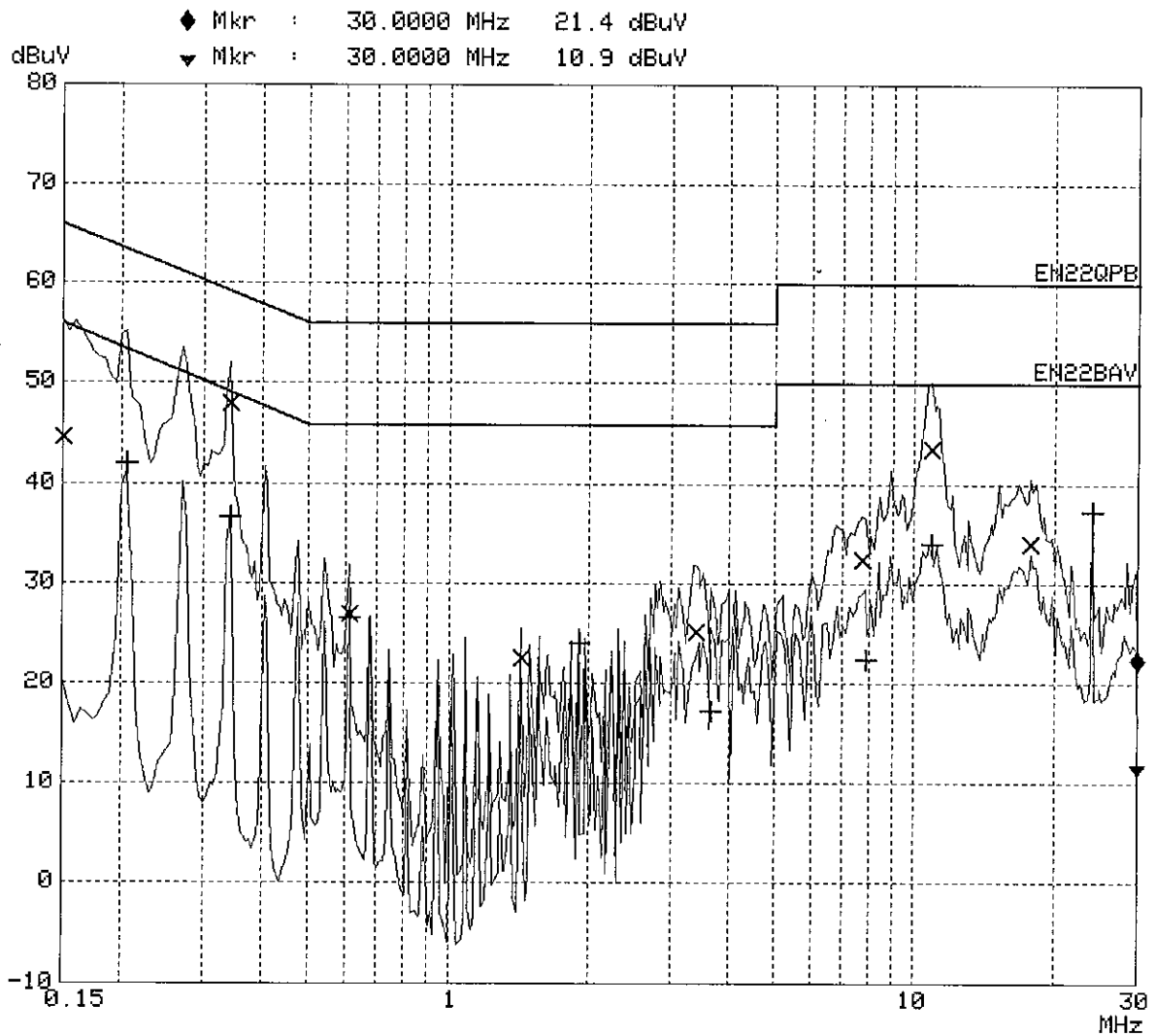
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Manuf: PRIX CO.,LTD.  
Op Cond: SCAN MODE(PARALLEL)  
Test Spec: FCC PART 15 CLASS B  
Comment: NK-2C-E-599  
LINE : NEUTRAL\_PE  
File name: 599\_6L.RES  
Date: 21. Apr 03 14:26

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: PX-820M  
Manuf: PRIX CO.,LTD.  
Op Cond: COPY MODE  
Test Spec: FCC PART15 CLASS B  
Comment: NK-2C-E-599  
LINE : LINE-PE  
Date: 18. Apr 03 14:34

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

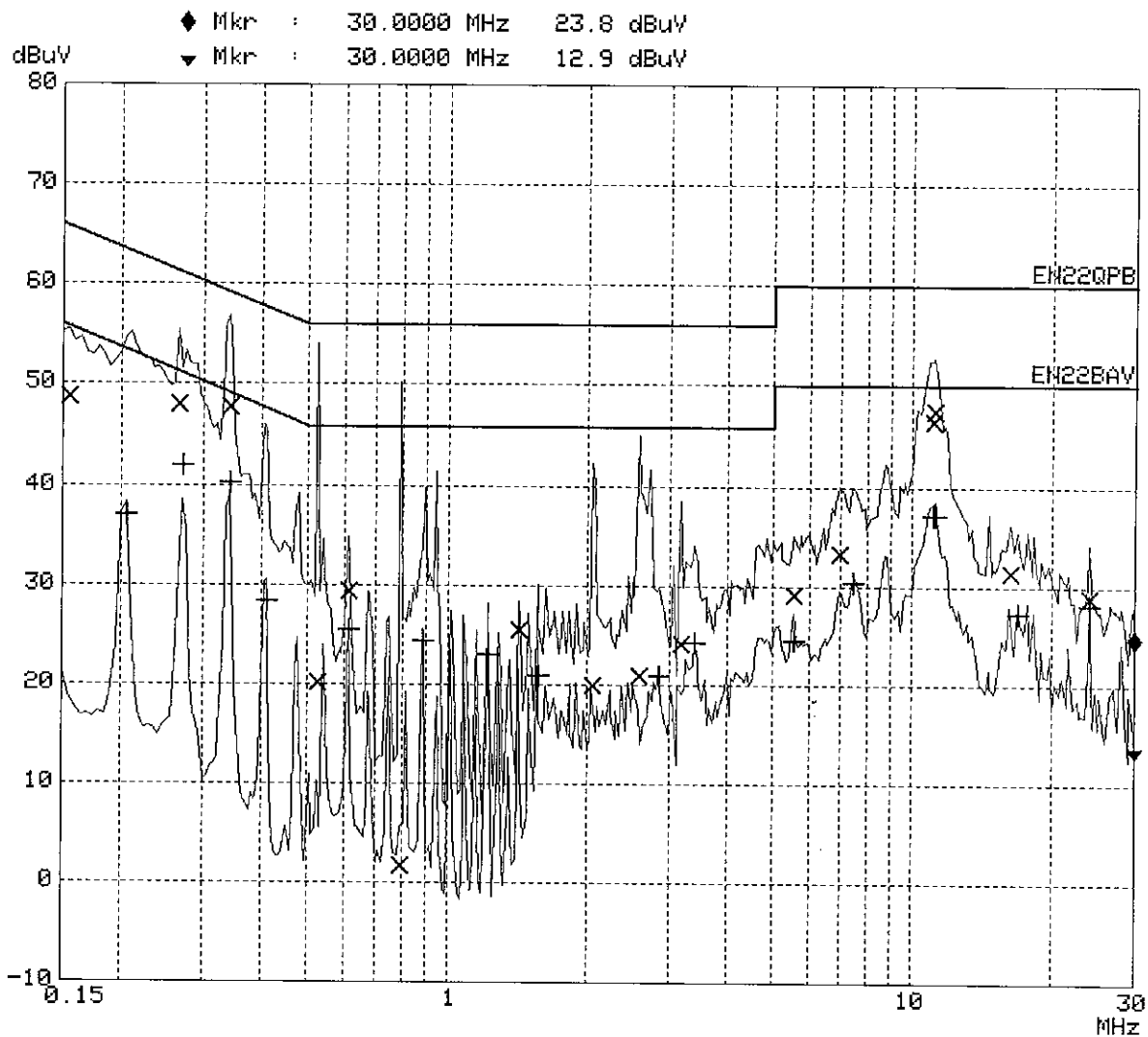
Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 16

Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: PX-820M  
Manuf: PRIX CO.,LTD.  
Op Cond: COPY MODE  
Test Spec: FCC PART15 CLASS B  
Comment: NK-2C-E-599  
LINE : NEUTRAL-PE  
Date: 18. Apr 03 14:14

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

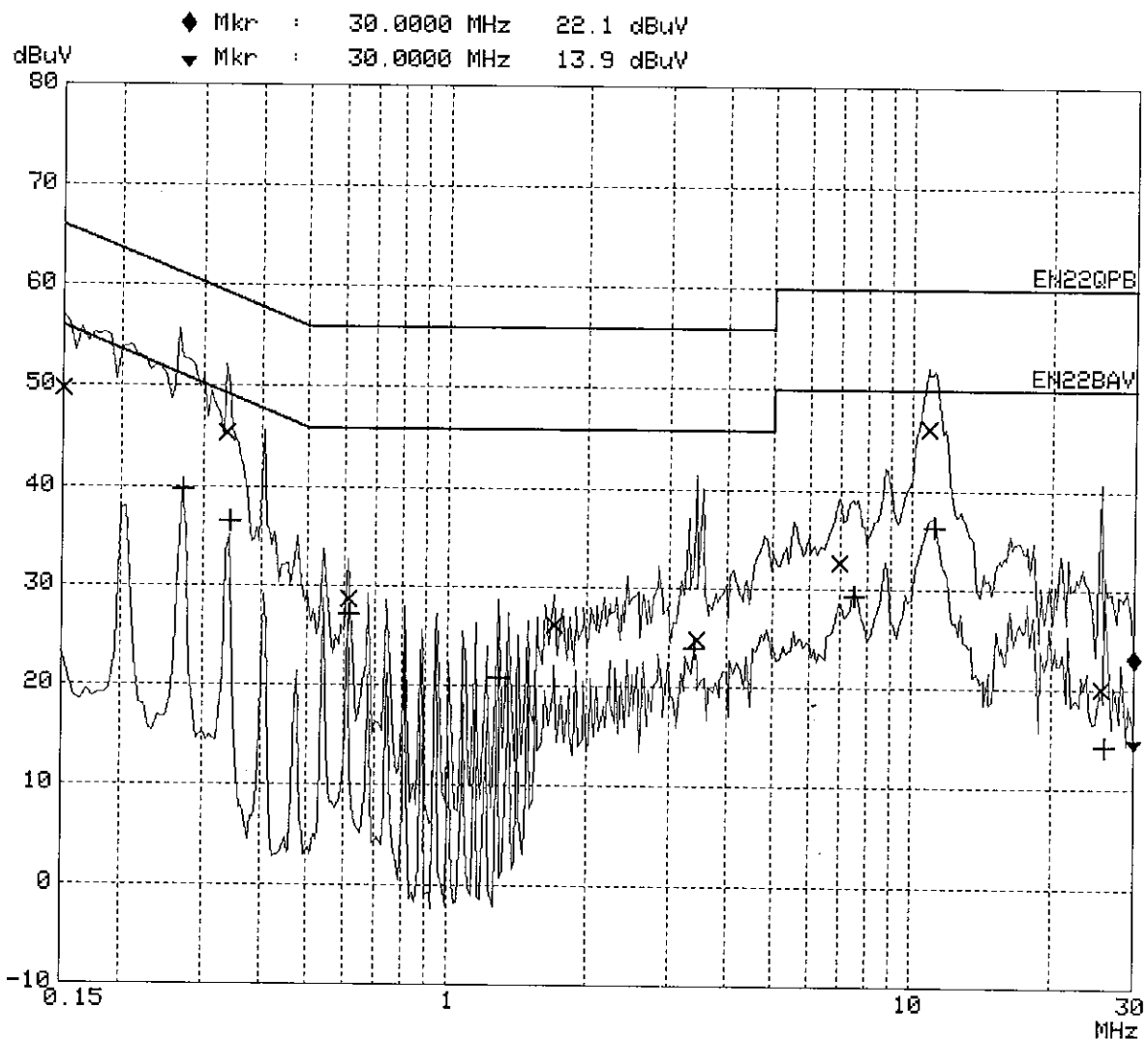
Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: PX-820M  
Manuf: PRIX CO.,LTD.  
Op Cond: RECEIVER MODE  
Test Spec: FCC PART 15 CLASS B  
Comment: NK-2C-E-599  
LINE : LINE-PE  
File name: 599\_1L.RES  
Date: 21. Apr 03 10:37

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

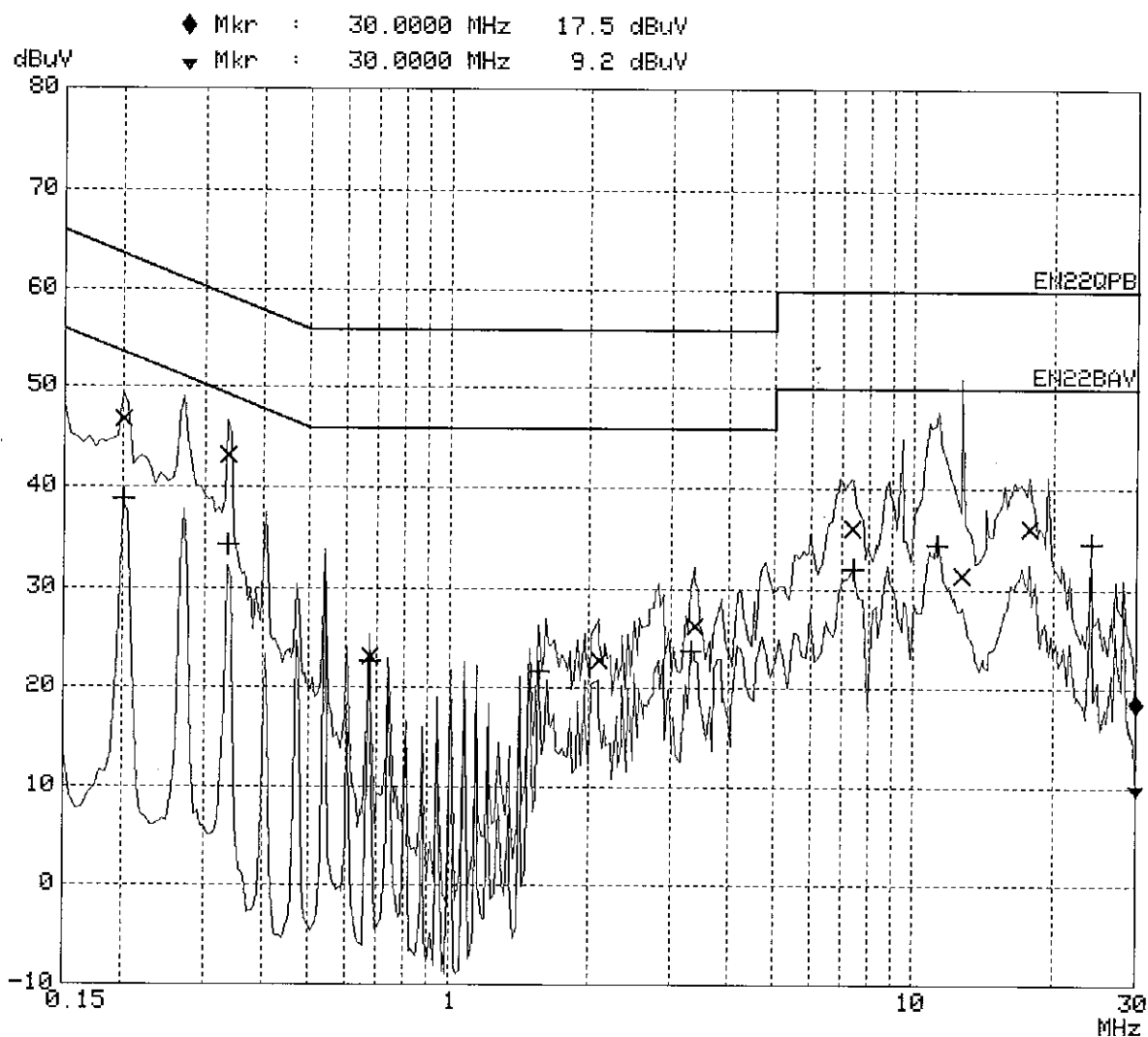
Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO.,LTD.

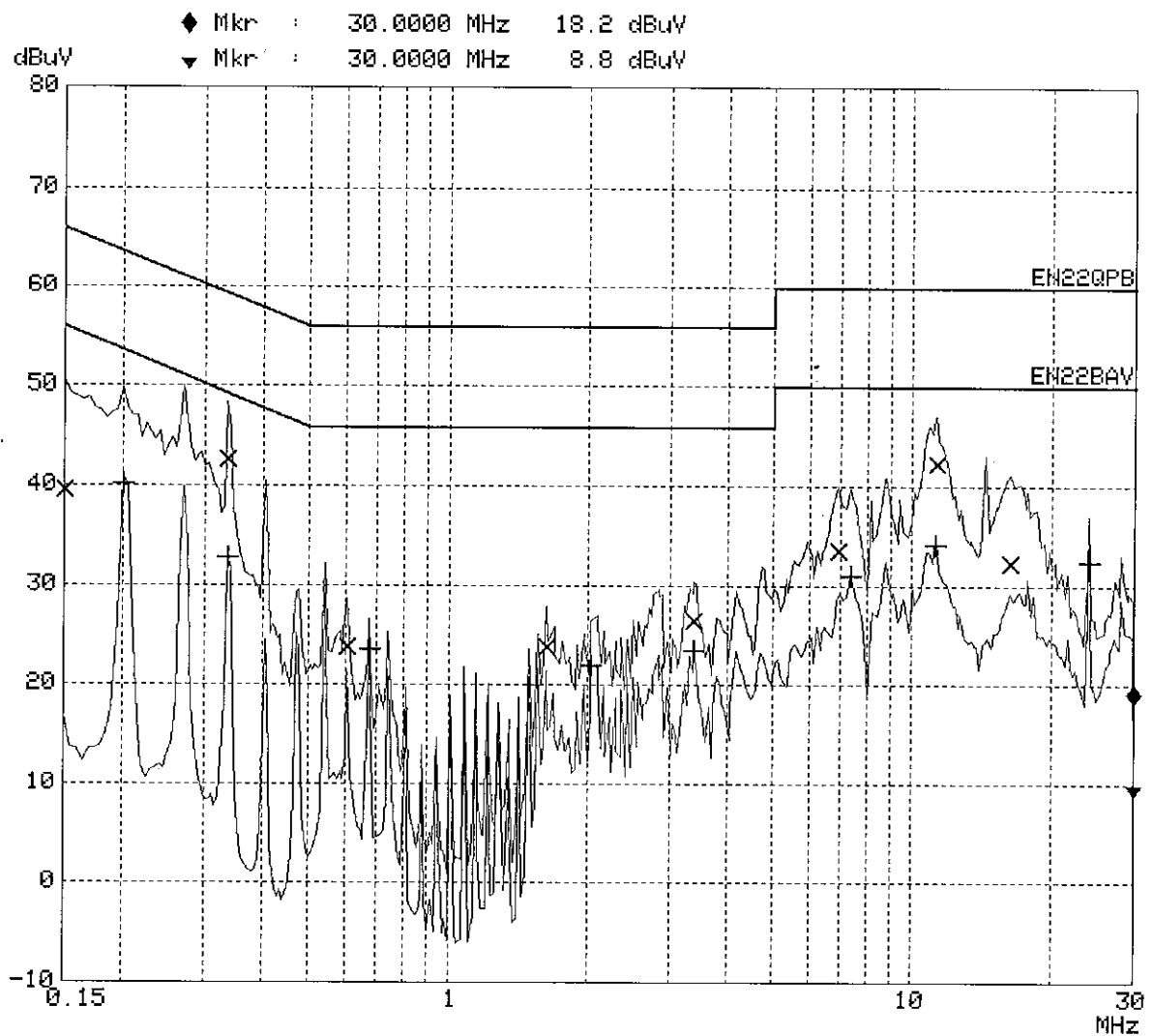
EUT: PX-820M  
Manuf: PRIX CO.,LTD.  
Op Cond: RECEIVER MODE  
Test Spec: FCC PART 15 CLASS B  
Comment: NK-2C-E-599  
LINE : NEUTRAL\_PE  
File name: 599\_2L.RES  
Date: 21. Apr 03 10:51

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO., LTD.

EUT: PX-820M  
Manuf: PRIX CO., LTD.  
Op Cond: TRANSMIT MODE  
Test Spec: FCC PART 15 CLASS B  
Comment: NK-2C-E-599  
LINE : LINE-PE  
Date: 21. Apr 03 10:19

## Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO	LN OFF

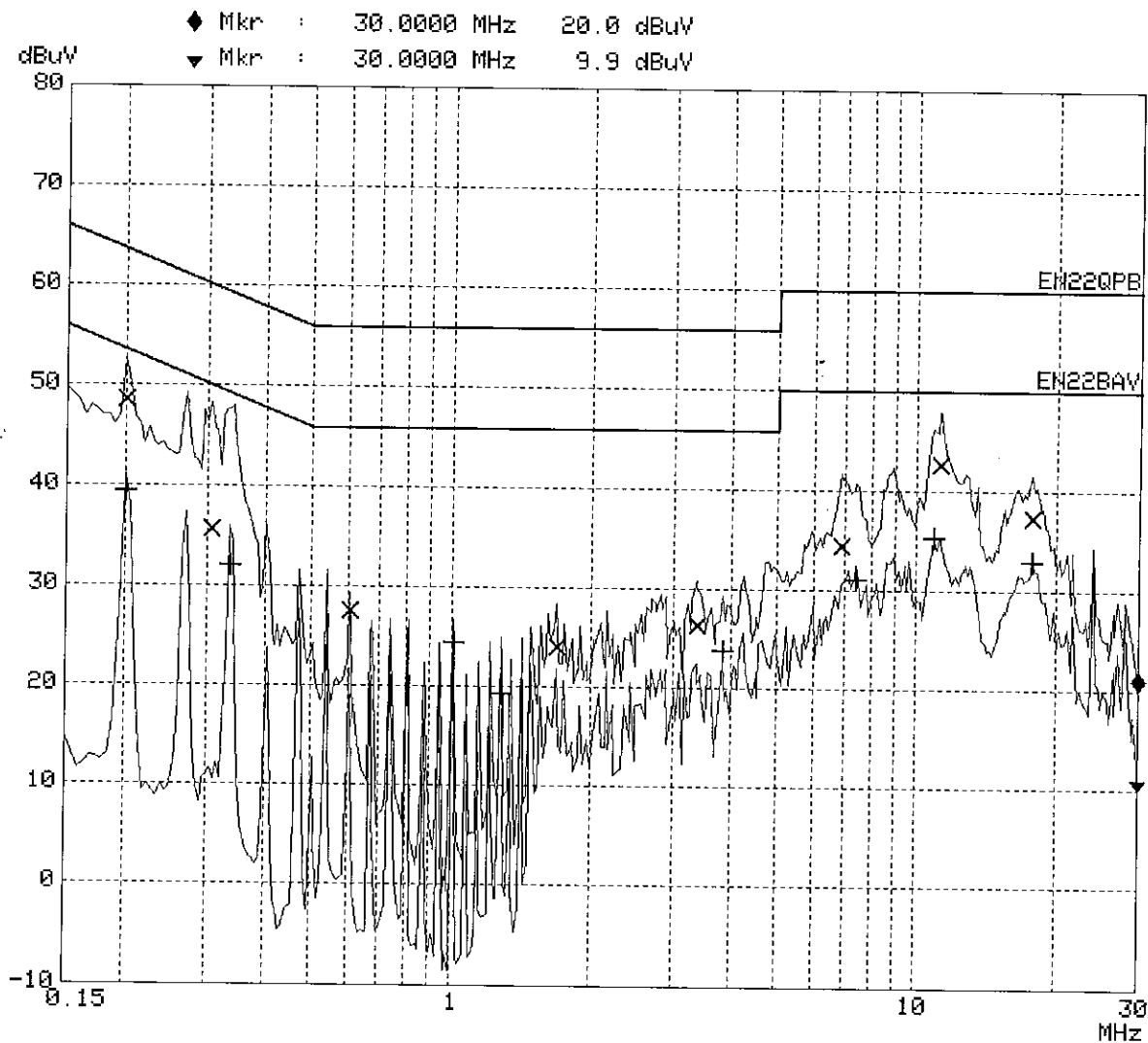
Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: PX-820M  
Manuf: PRIX CO.,LTD.  
Op Cond: TRANSMIT MODE  
Test Spec: FCC PART15 CLASS B  
Comment: NK-2C-E-599  
LINE : NEUTRAL-PE  
File name: 599L.RES  
Date: 18. Apr 03 14:49

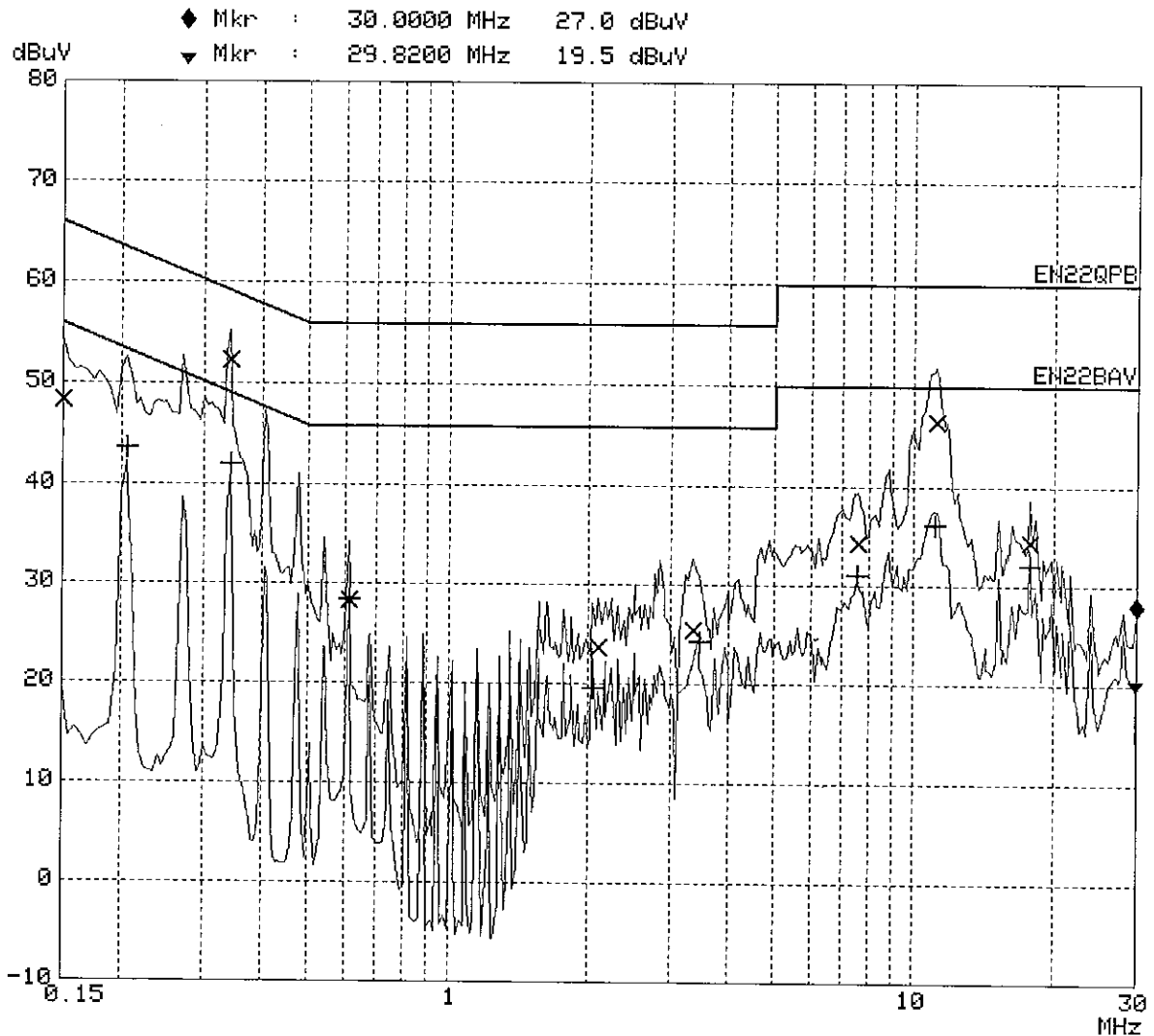
## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV

Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

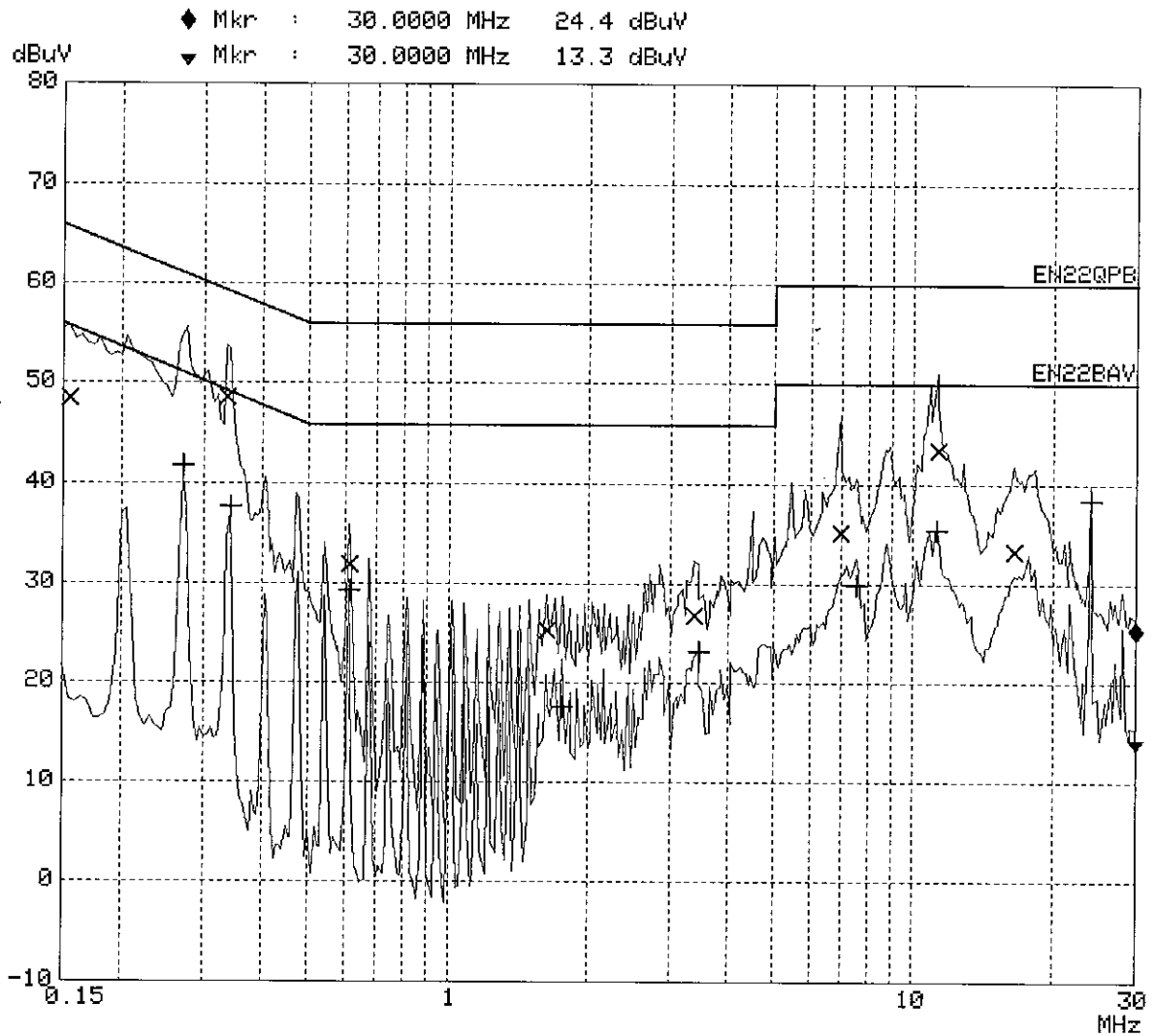
EUT: PX-820M  
Manuf: PRIX CO.,LTD.  
Op Cond: PRINT MODE(PARALLEL)  
Test Spec: FCC PART 15 CLASS B  
Comment: NK-2C-E-599  
LINE : LINE\_PE  
File name: 599\_3N.RES  
Date: 21. Apr 03 11:29

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

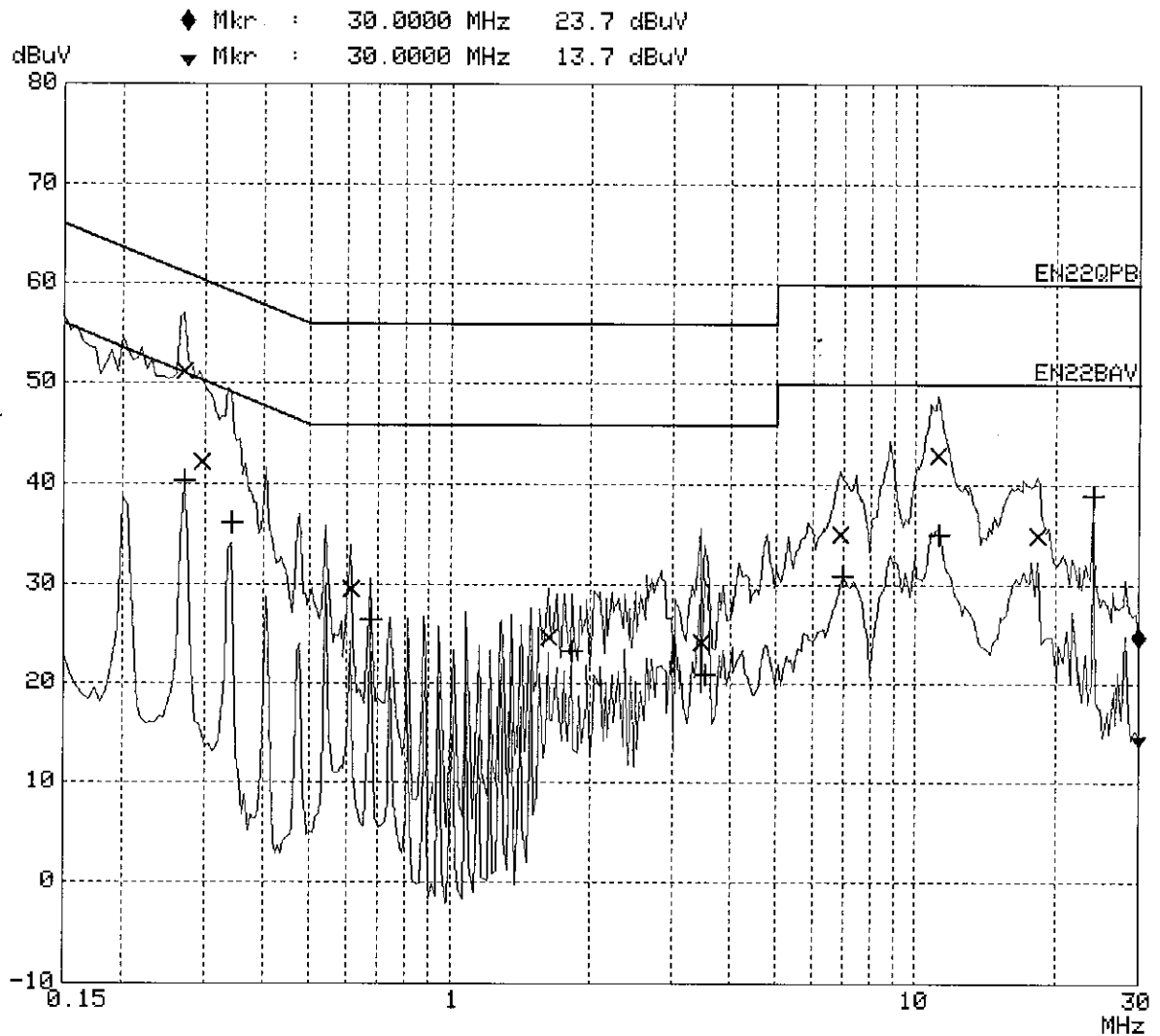
EUT: PX-820M  
Manuf: PRIX CO.,LTD.  
Op Cond: PRINT MODE(PARALLEL)  
Test Spec: FCC PART 15 CLASS B  
Comment: NK-2C-E-599  
LINE : NEUTRAL\_PE  
File name: 599\_2N.RES  
Date: 21. Apr 03 11:15

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: PX-820M  
Manuf: PRIX CO.,LTD.  
Op Cond: PRINT MODE(USB)  
Test Spec: FCC PART 15 CLASS B  
Comment: NK-2C-E-599  
LINE : LINE\_PE  
File name: 599\_3L.RES  
Date: 21. Apr 03 11:44

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

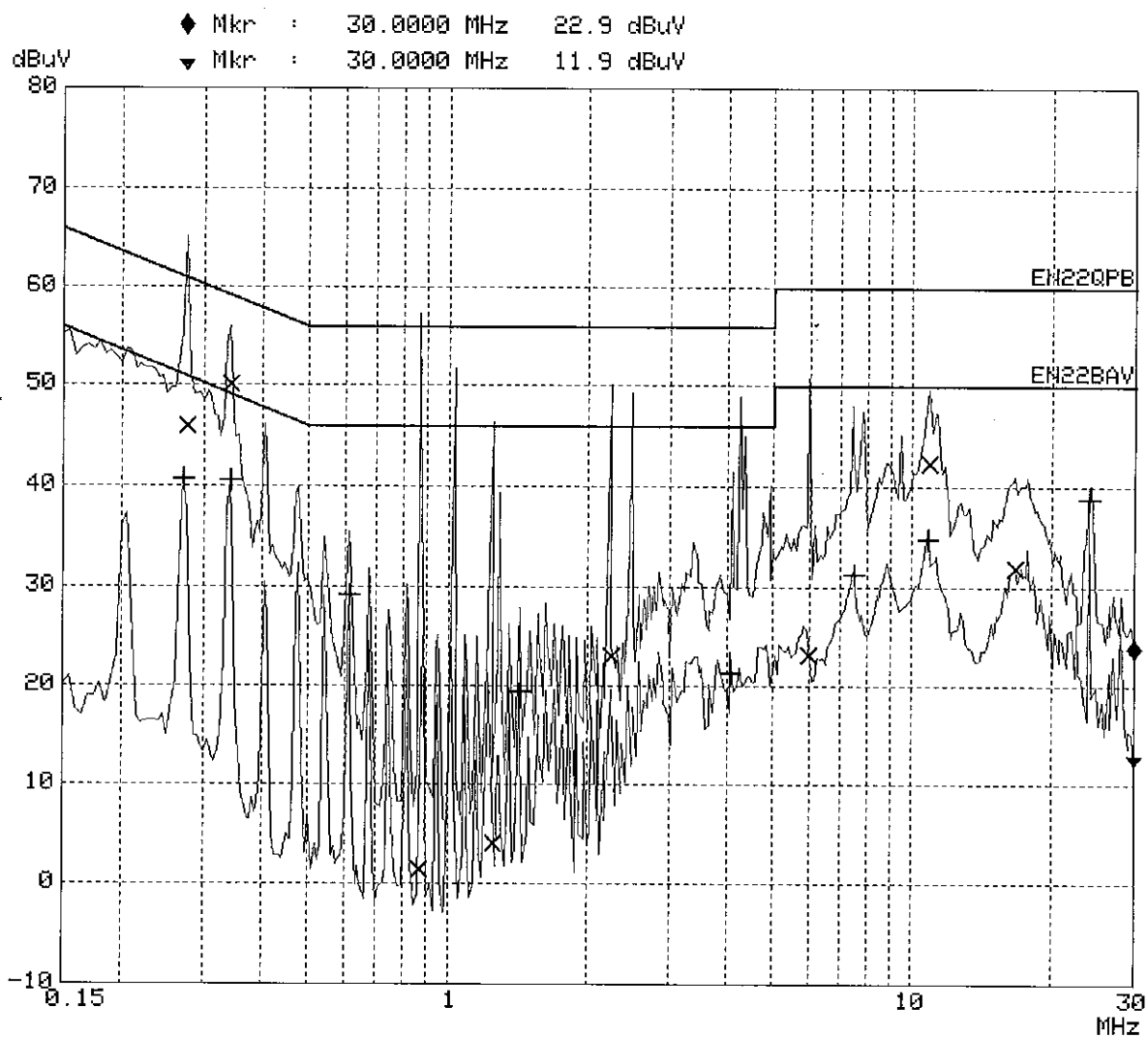
Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO.,LTD.

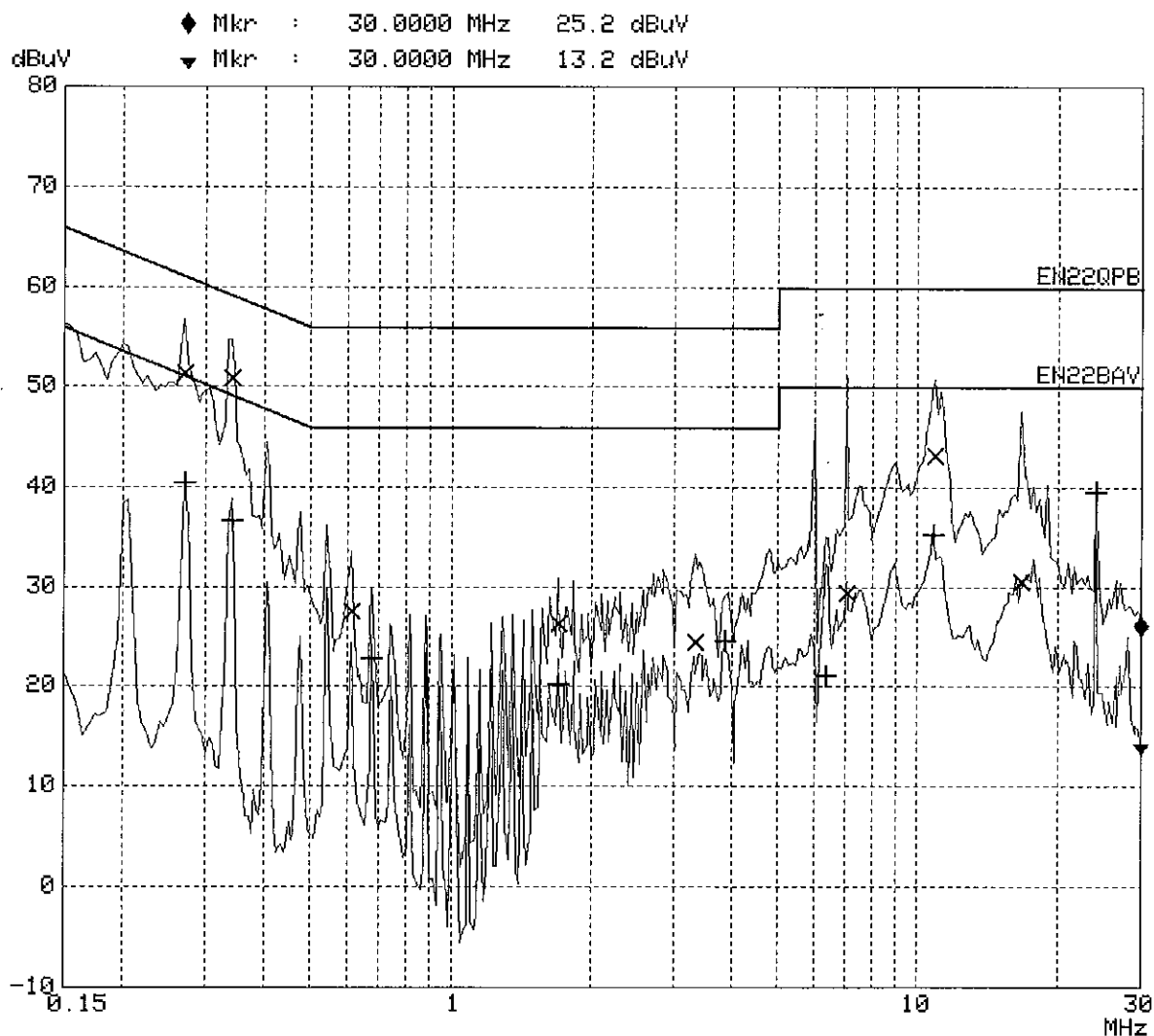
EUT: PX-820M  
Manuf: PRIX CO.,LTD.  
Op Cond: PRINT MODE(USB)  
Test Spec: FCC PART 15 CLASS B  
Comment: NK-2C-E-599  
LINE : NEUTRAL\_PE  
File name: 599\_4L.RES  
Date: 21. Apr 03 13:24

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

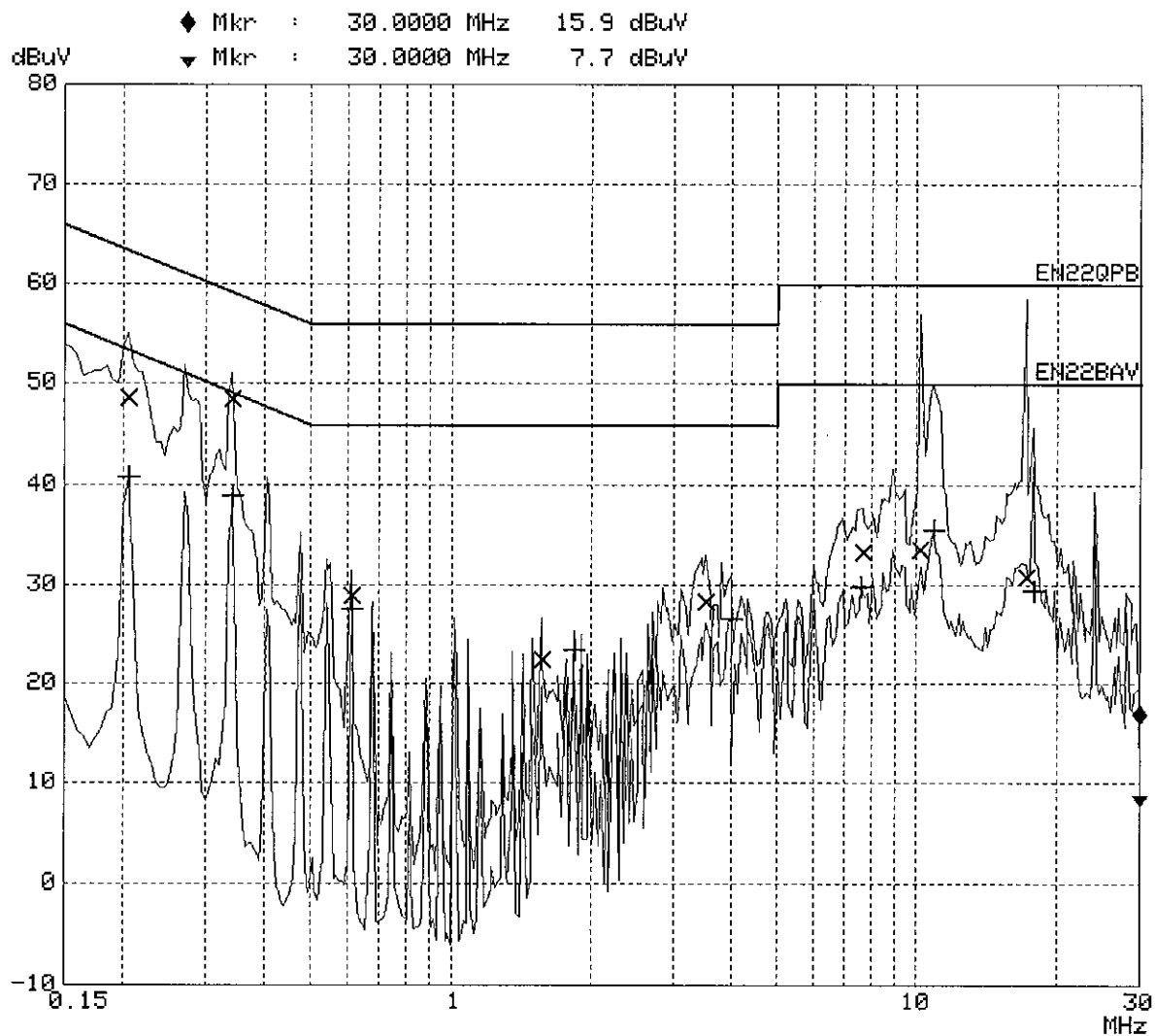
EUT: PX-820M  
Manuf: PRIX CO.,LTD.  
Op Cond: SCAN MODE(USB)  
Test Spec: FCC PART 15 CLASS B  
Comment: NK-2C-E-599  
LINE : LINE\_PE  
File name: 599\_5N.RES  
Date: 21. Apr 03 13:58

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

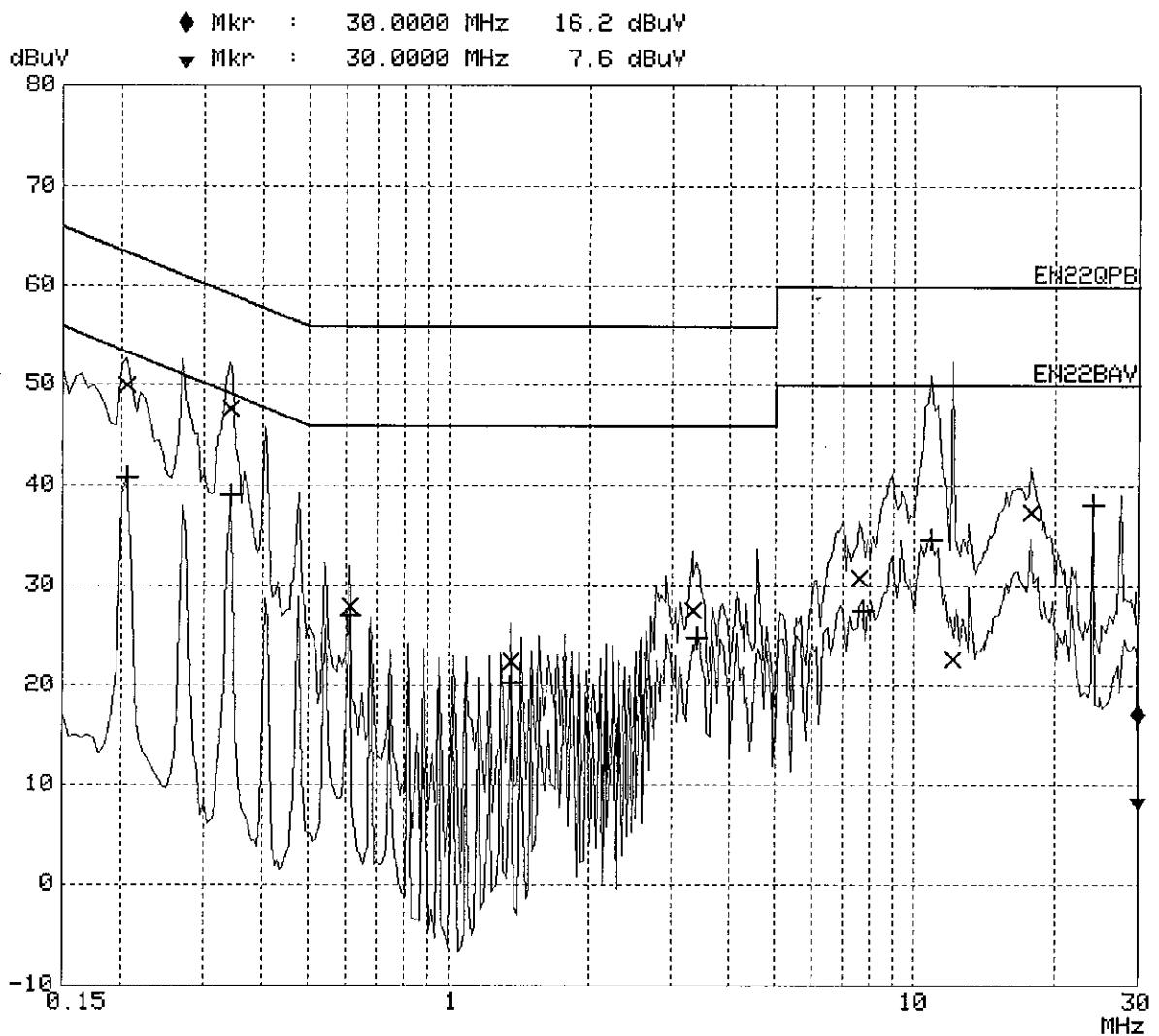
EUT: PX-820M  
Manuf: PRIX CO.,LTD.  
Op Cond: SCAN MODE(USB)  
Test Spec: FCC PART 15 CLASS B  
Comment: NK-2C-E-599  
LINE : NEUTRAL\_PE  
File name: 599\_4N.RES  
Date: 21. Apr 03 13:44

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: FAX,PRINT,SCANNER  
Manuf: PRIX CO.,LTD.  
Op Cond: TRANSMIT MODE  
Test Spec: FCC PART 15  
Comment: LINE: LINE\_PE  
Date: 26. Apr 03 15:41

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

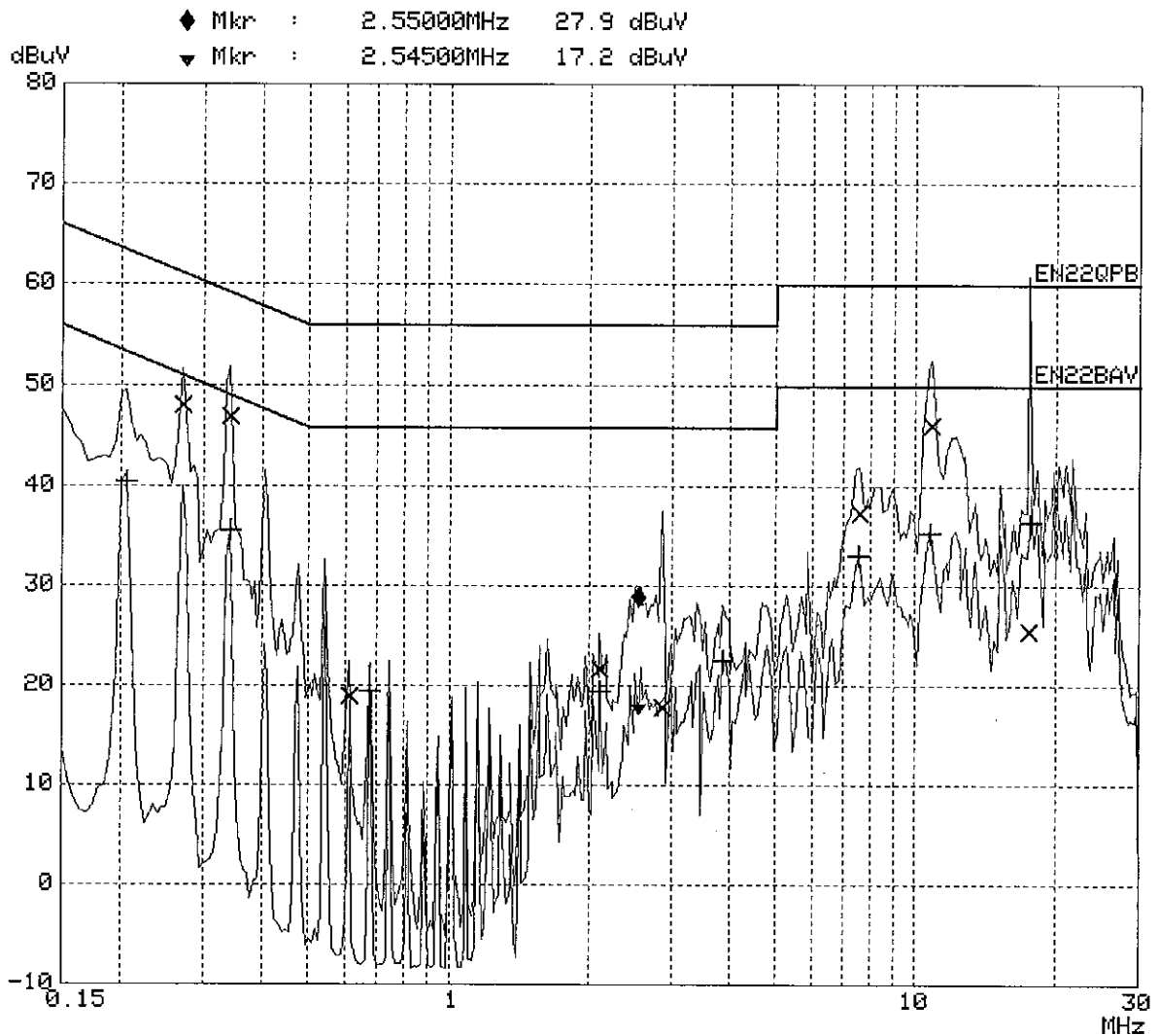
Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: FAX,PRINT,SCANNER  
Manuf: PRIX CO.,LTD.  
Op Cond: TRANSMIT MODE  
Test Spec: FCC PART 15  
Comment: LINE: NEUTRAL\_PE  
Date: 26. Apr 03 15:29

## Scan Settings (1 Range)

----- Frequencies -----			Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

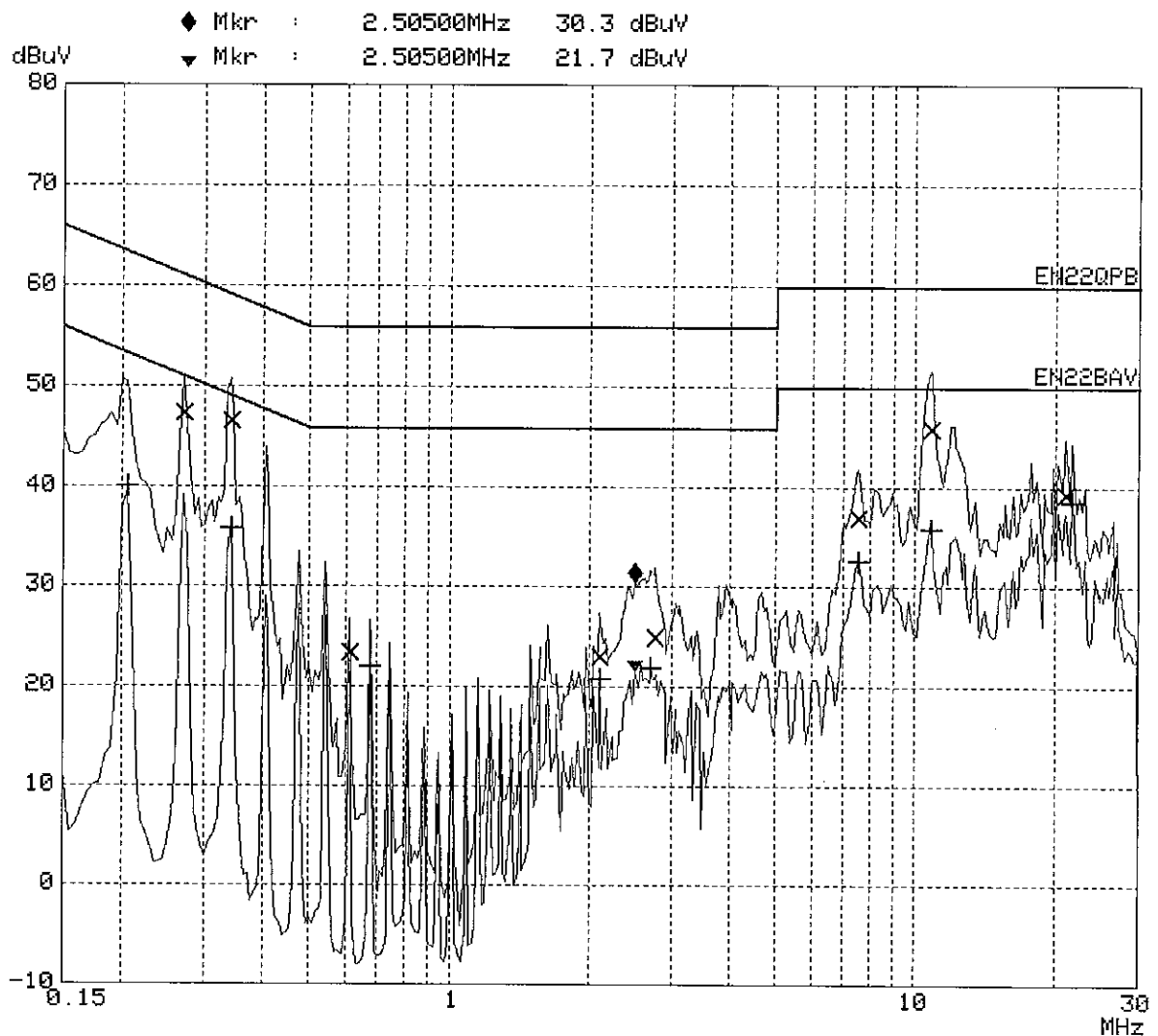
Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO., LTD.

EUT: FAX, PRINT, SCANNER  
Manuf: PRIX CO., LTD.  
Op Cond: RECEIVER MODE  
Test Spec: FCC PART 15  
Comment: LINE: LINE\_PE  
Date: 26. Apr 03 15:05

## Scan Settings (1 Range)

----- Frequencies -----			Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

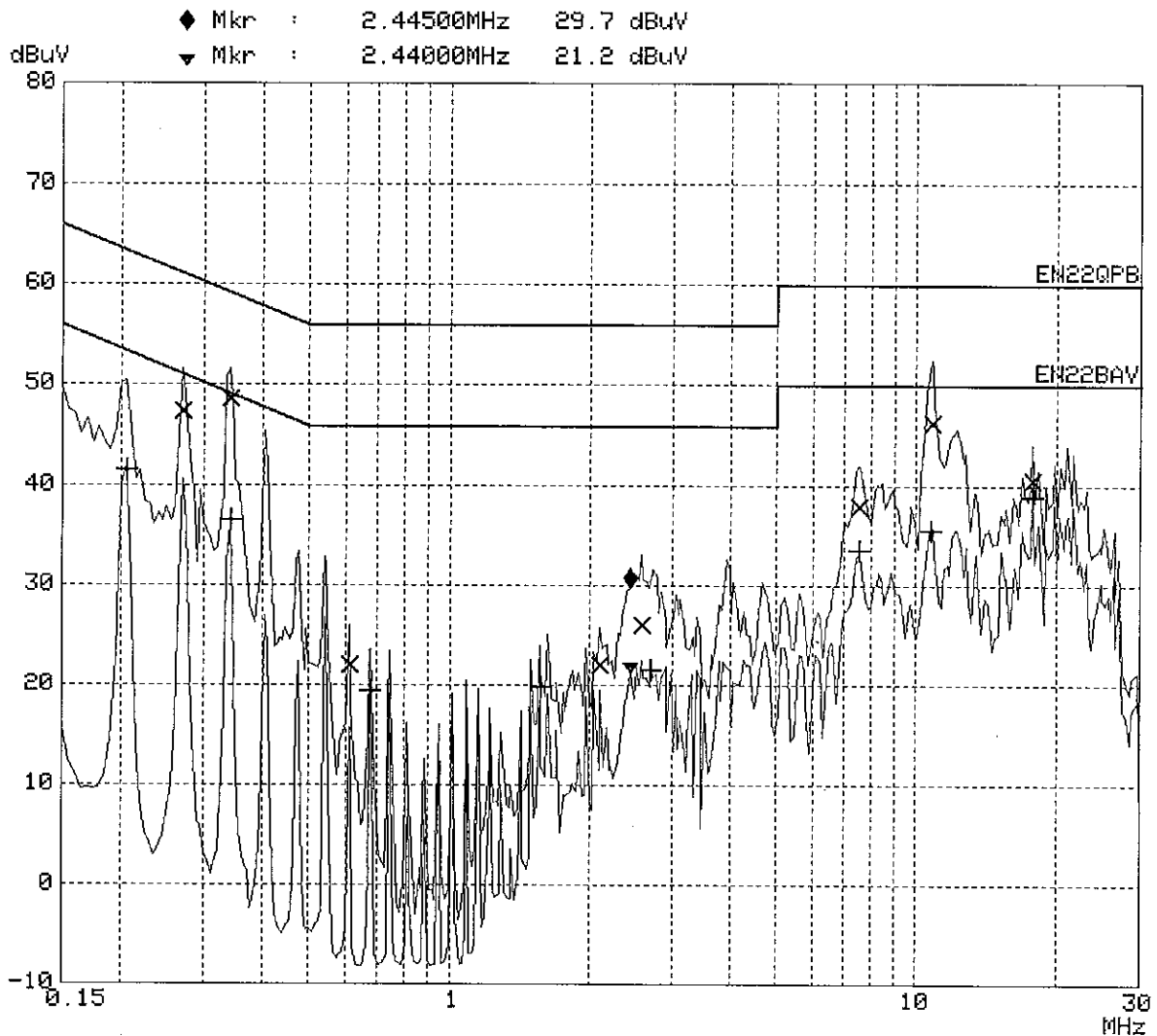
Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: FAX,PRINT,SCANER  
Manuf: PRIX CO.,LTD.  
Op Cond: RECEIVER MODE  
Test Spec: FCC PART 15  
Comment: LINE: NEUTRAL\_PE  
Date: 26. Apr 03 15:17

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

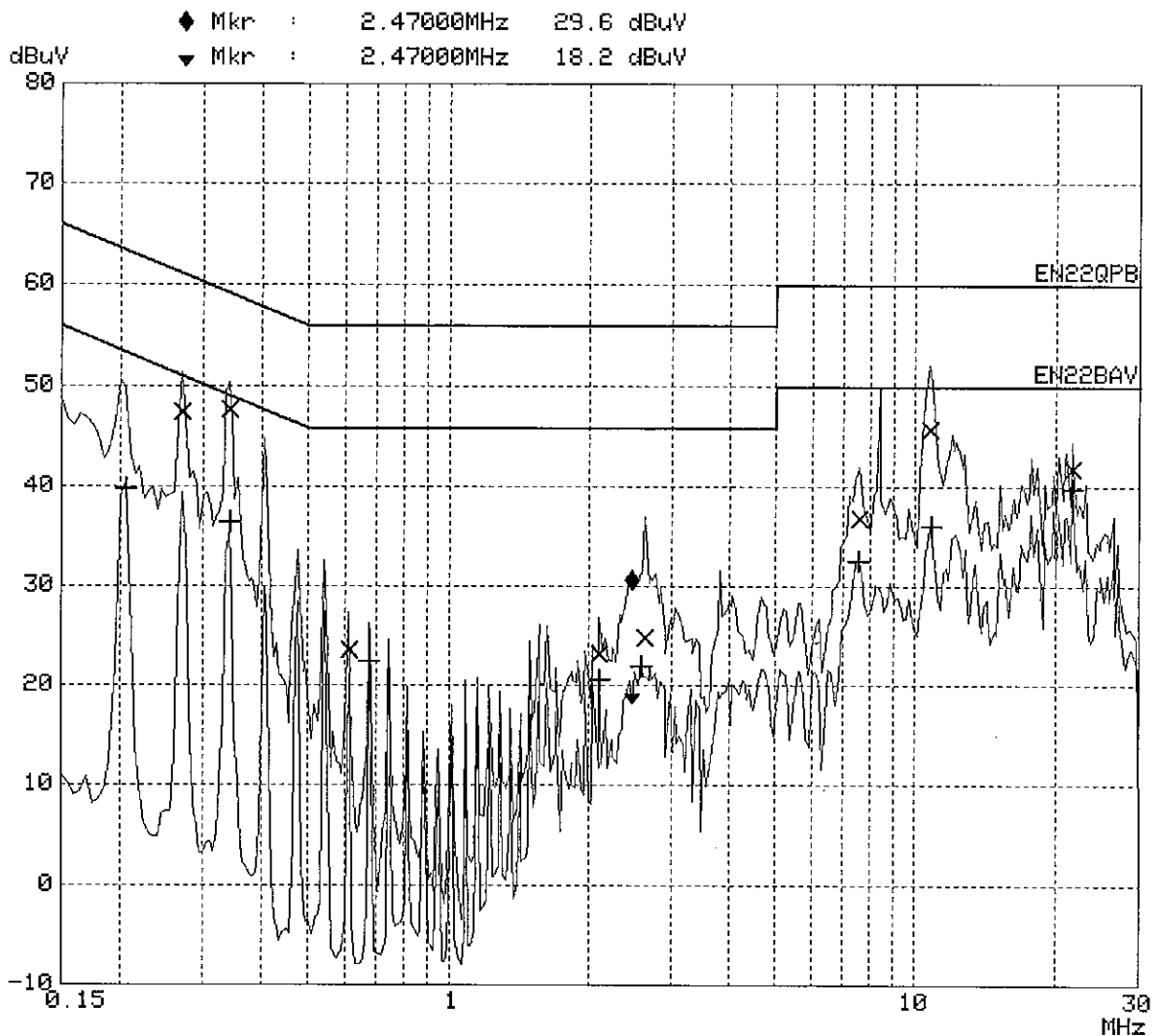
Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: FAX,PRINT,SCANNER  
Manuf: PRIX CO.,LTD.  
Op Cond: SCAN MODE(USB)  
Test Spec: FCC PART 15  
Comment: LINE: NEUTRAL\_PE  
Date: 26. Apr 03 14:40

## Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

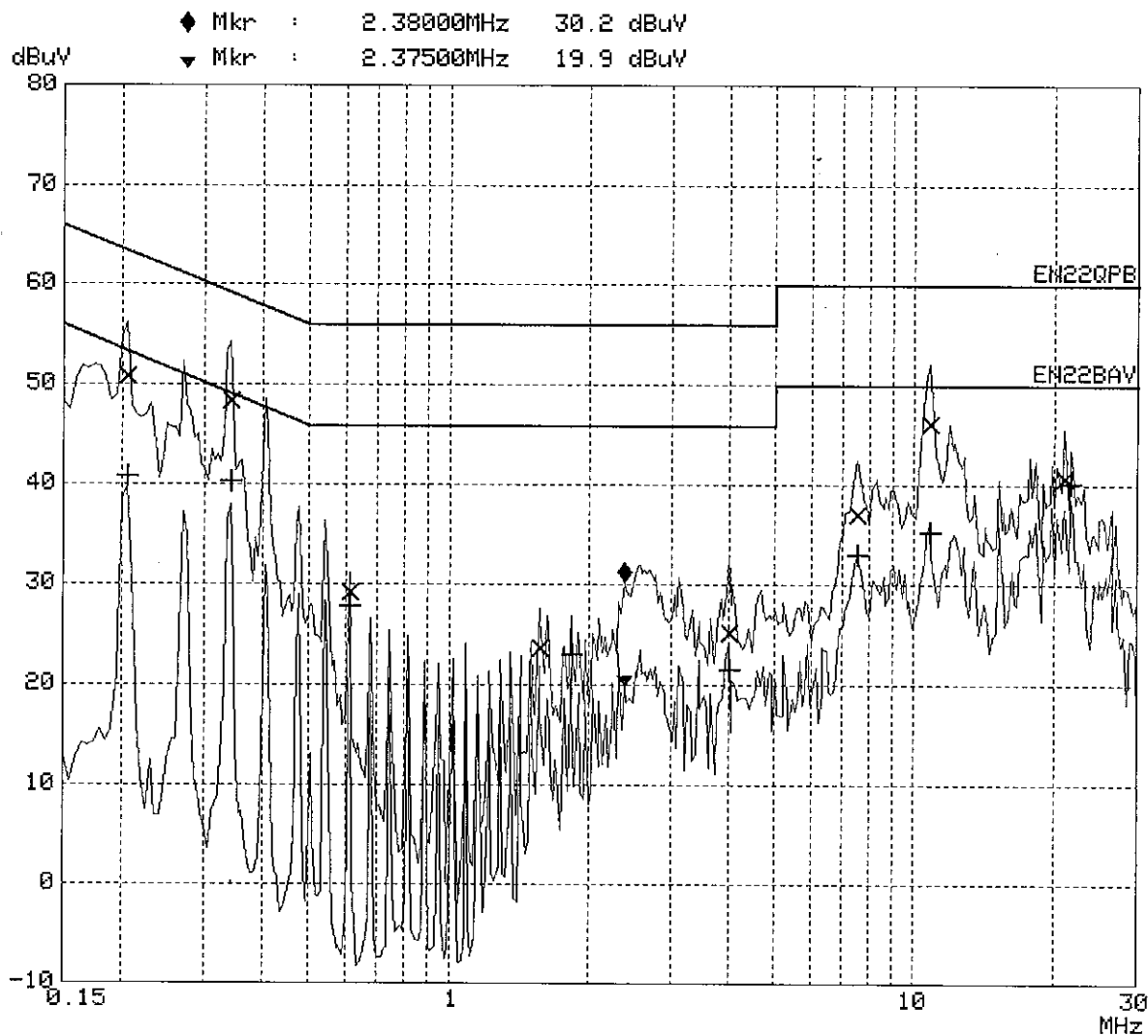
Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: FAX,PRINT,SCANNER  
Manuf: PRIX CO.,LTD.  
Op Cond: SCAN MODE(USB)  
Test Spec: FCC PART 15  
Comment: LINE: LINE\_PE  
Date: 26. Apr 03 14:53

## Scan Settings (1 Range)

----- Frequencies -----			Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

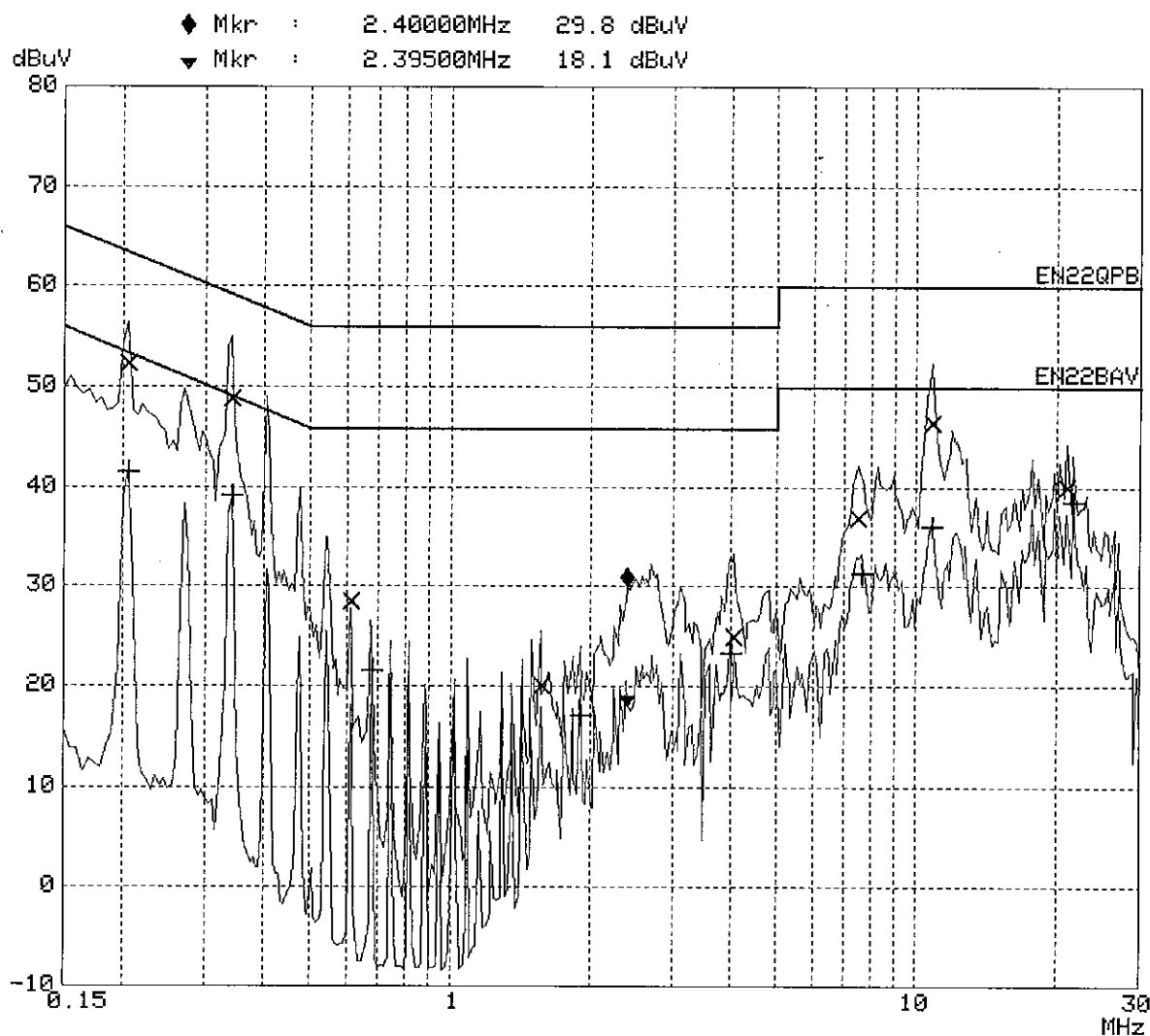
Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO., LTD.

EUT: FAX, PRINT, SCANNER  
Manuf: PRIX CO., LTD.  
Op. Cond: SCAN MODE(PARALLEL)  
Test Spec: FCC PART 15  
Comment: LINE: NEUTRAL\_PE  
Date: 26. Apr 03 14:28

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

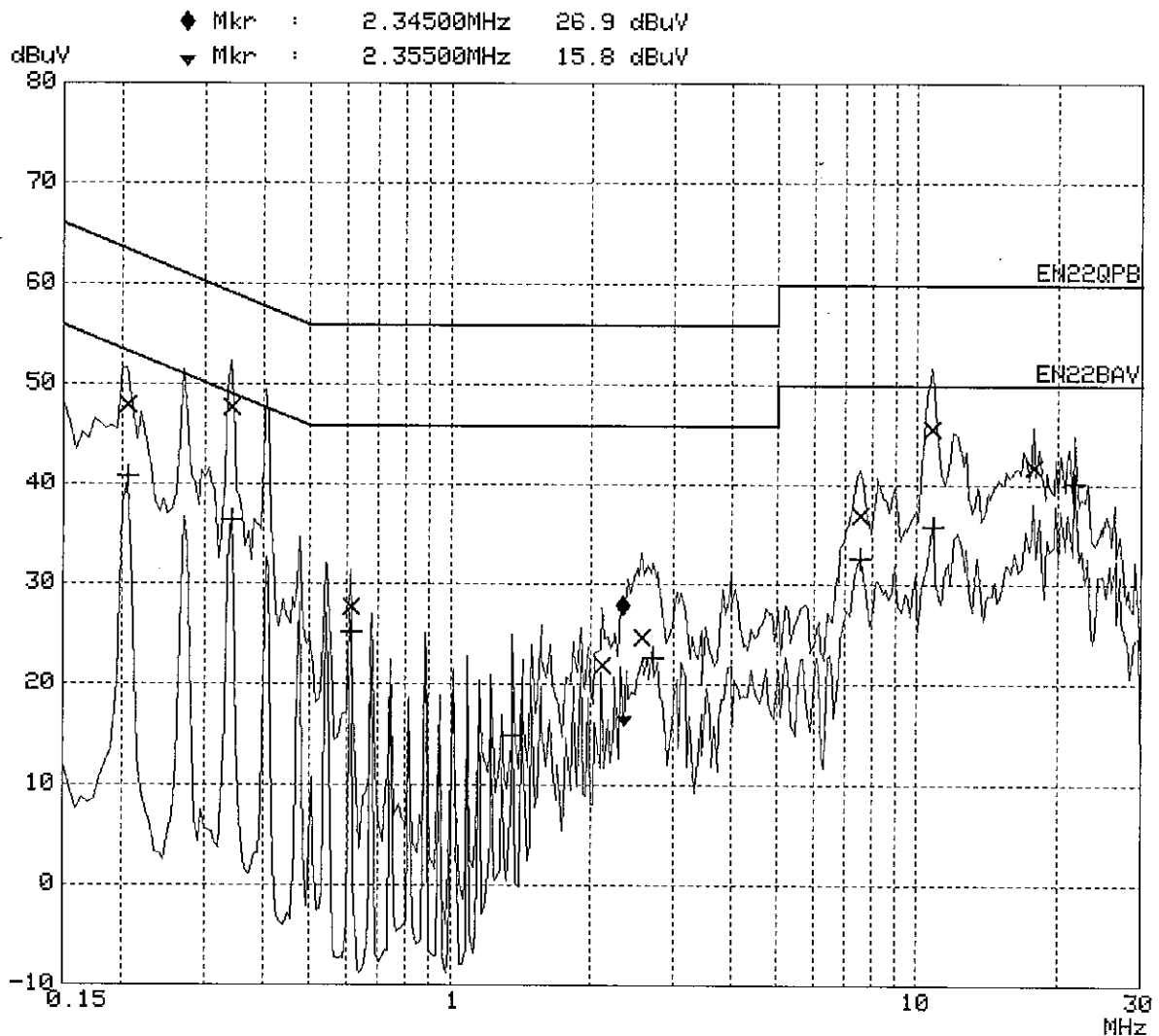
Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO., LTD.

EUT: FAX, PRINT, SCANNER  
 Manuf: PRIX CO., LTD.  
 Op. Cond: SCAN MODE(PARALLEL)  
 Test Spec: FCC PART 15  
 Comment: LINE: LINE\_PE  
 Date: 26. Apr 03 14:16

## Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

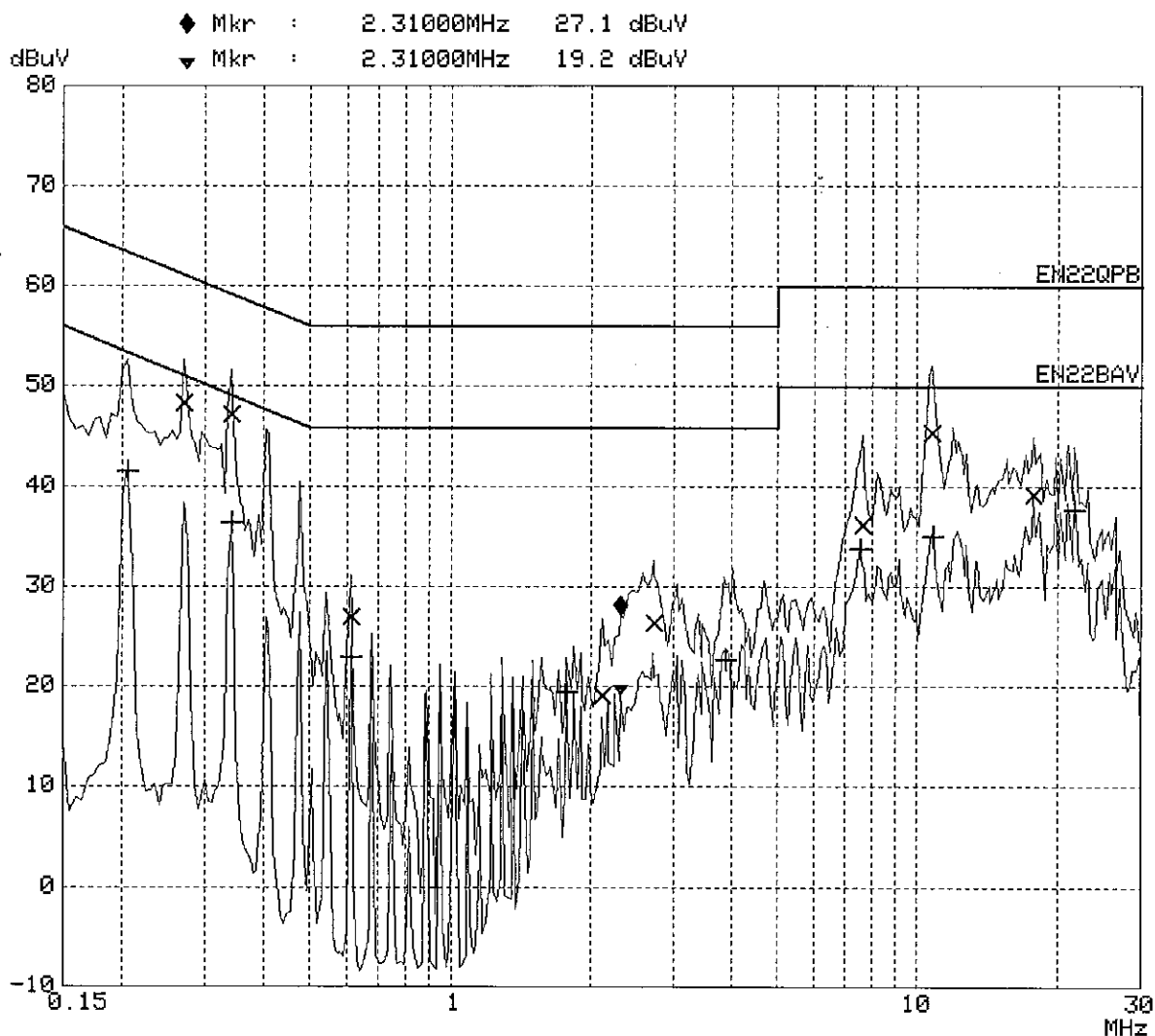
Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: FAX,PRINT,SCANNER  
 Manuf: PRIX CO.,LTD.  
 Op Cond: PRINT MODE(PARALLEL)  
 Test Spec: FCC PART 15  
 Comment: LINE: LINE\_PE  
 Date: 26. Apr 03 14:01

## Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

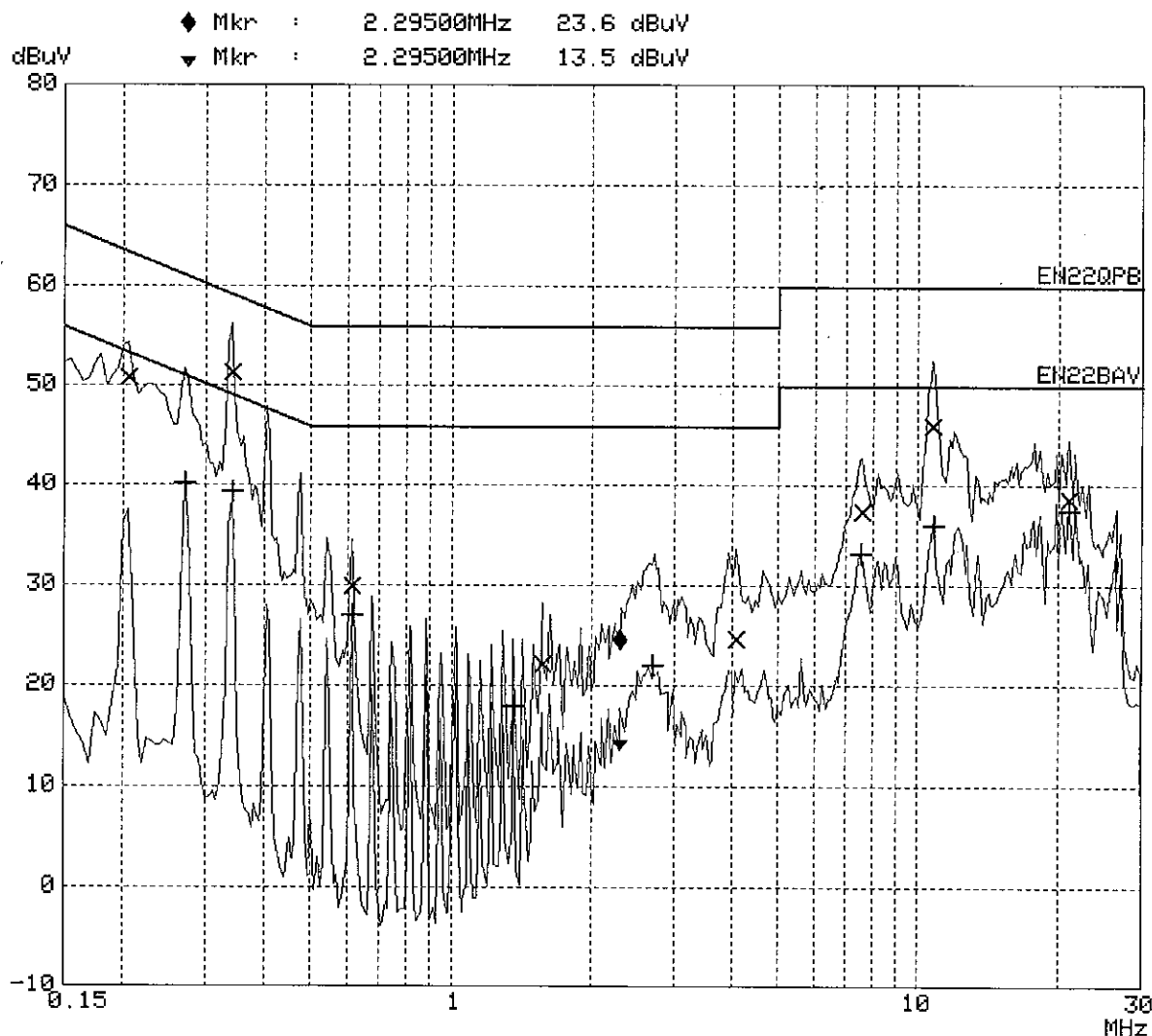
Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO., LTD.

EUT: FAX, PRINT, SCANNER  
 Manuf: PRIX CO., LTD.  
 Op Cond: PRINT MODE(PARALLEL)  
 Test Spec: FCC PART 15  
 Comment: LINE: ~~LINE-PE~~ Neutral - PE  
 Date: 26. Apr 03 13:48

## Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

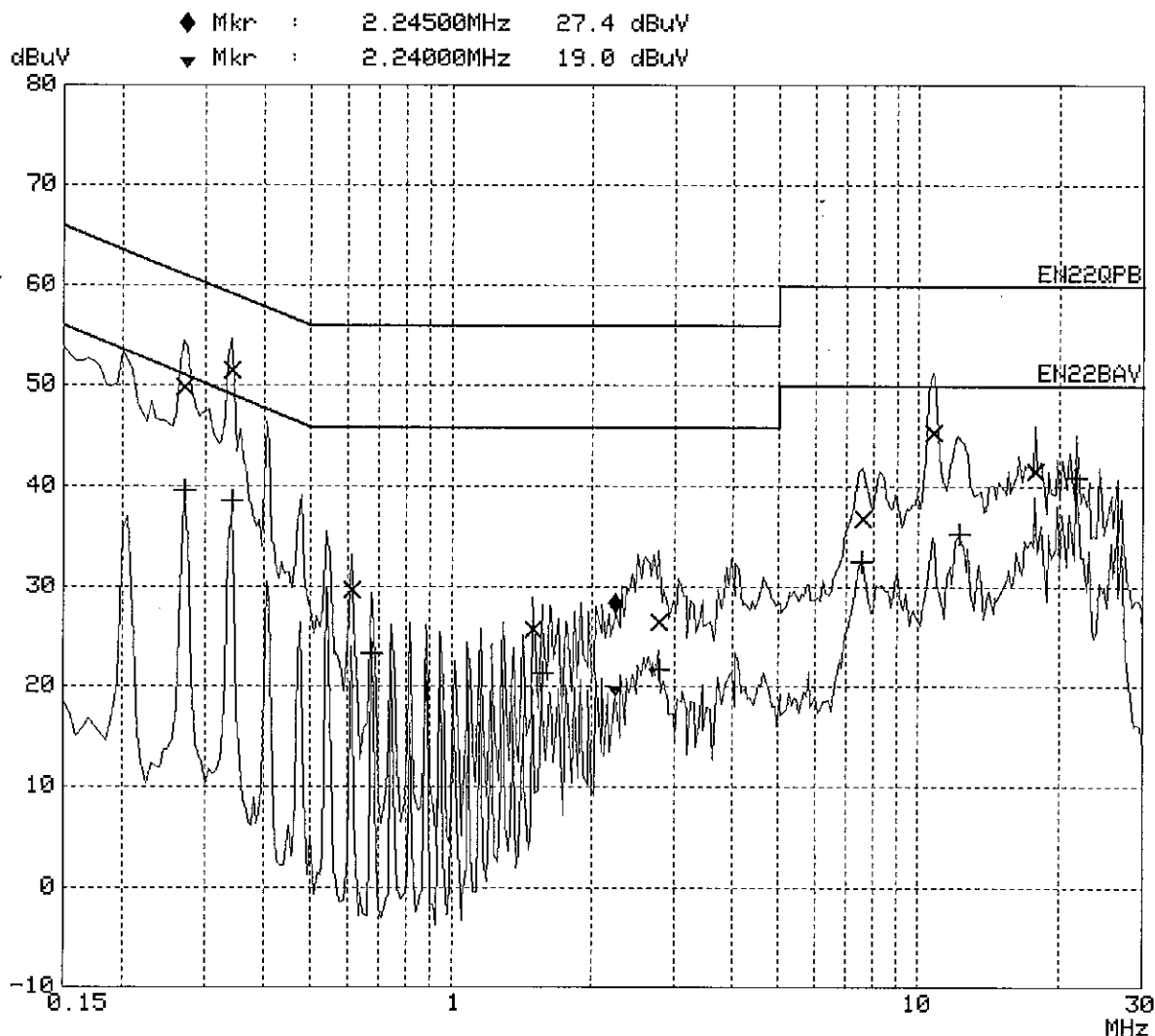
Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO., LTD.

EUT: FAX, PRINT, SCANNER  
Manuf: PRIX CO., LTD.  
Op Cond: PRINT MODE(USB)  
Test Spec: FCC PART 15  
Comment: LINE: NEUTRAL\_PE  
Date: 26. Apr 03 13:33

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

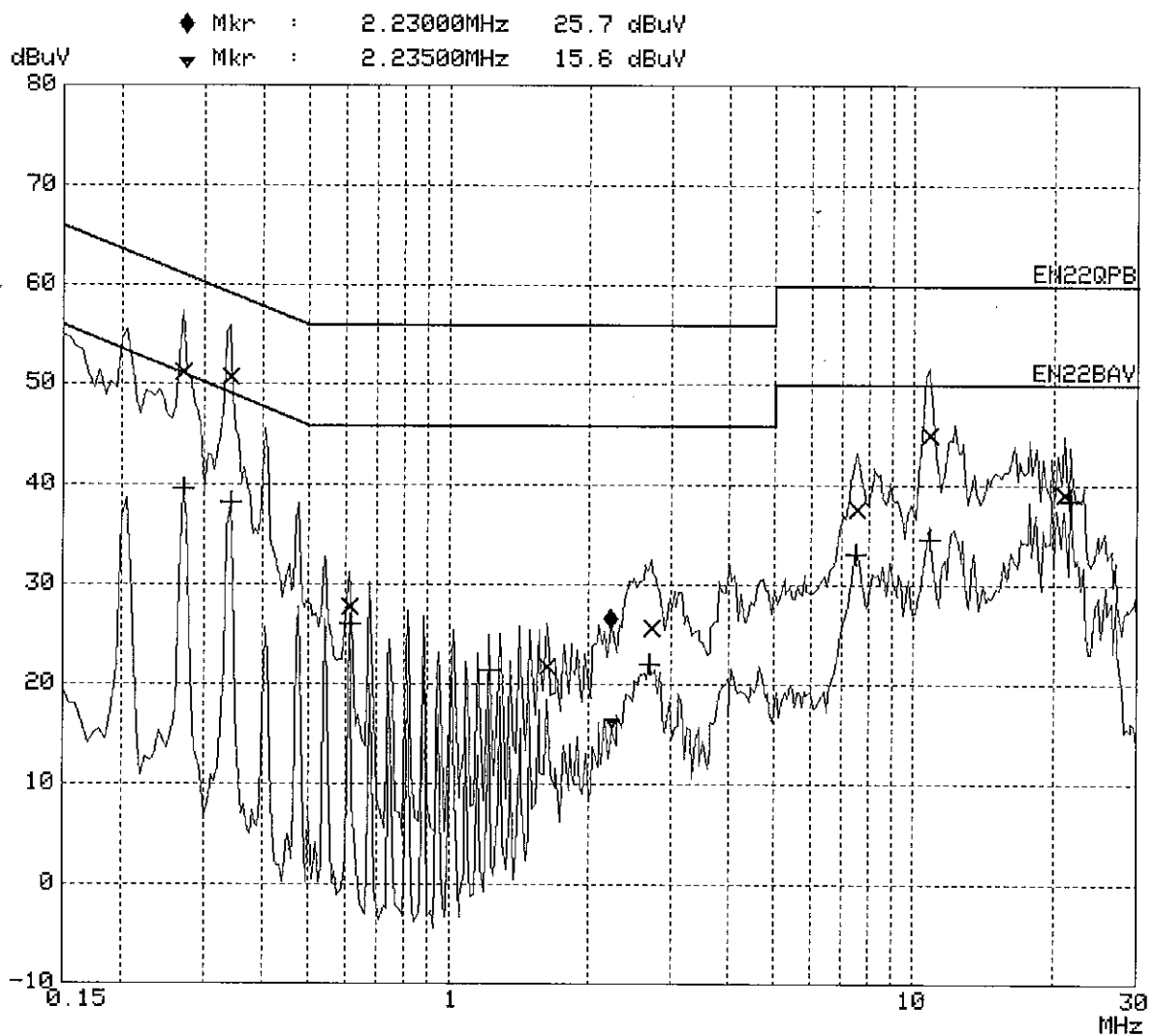
Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: FAX,PRINT,SCANER  
Manuf: PRIX CO.,LTD.  
Op Cond: PRINT MODE(USB)  
Test Spec: FCC PART 15  
Comment: LINE: LINE-PE  
Date: 26. Apr 03 13:20

## Scan Settings (1 Range)

----- Frequencies -----			Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

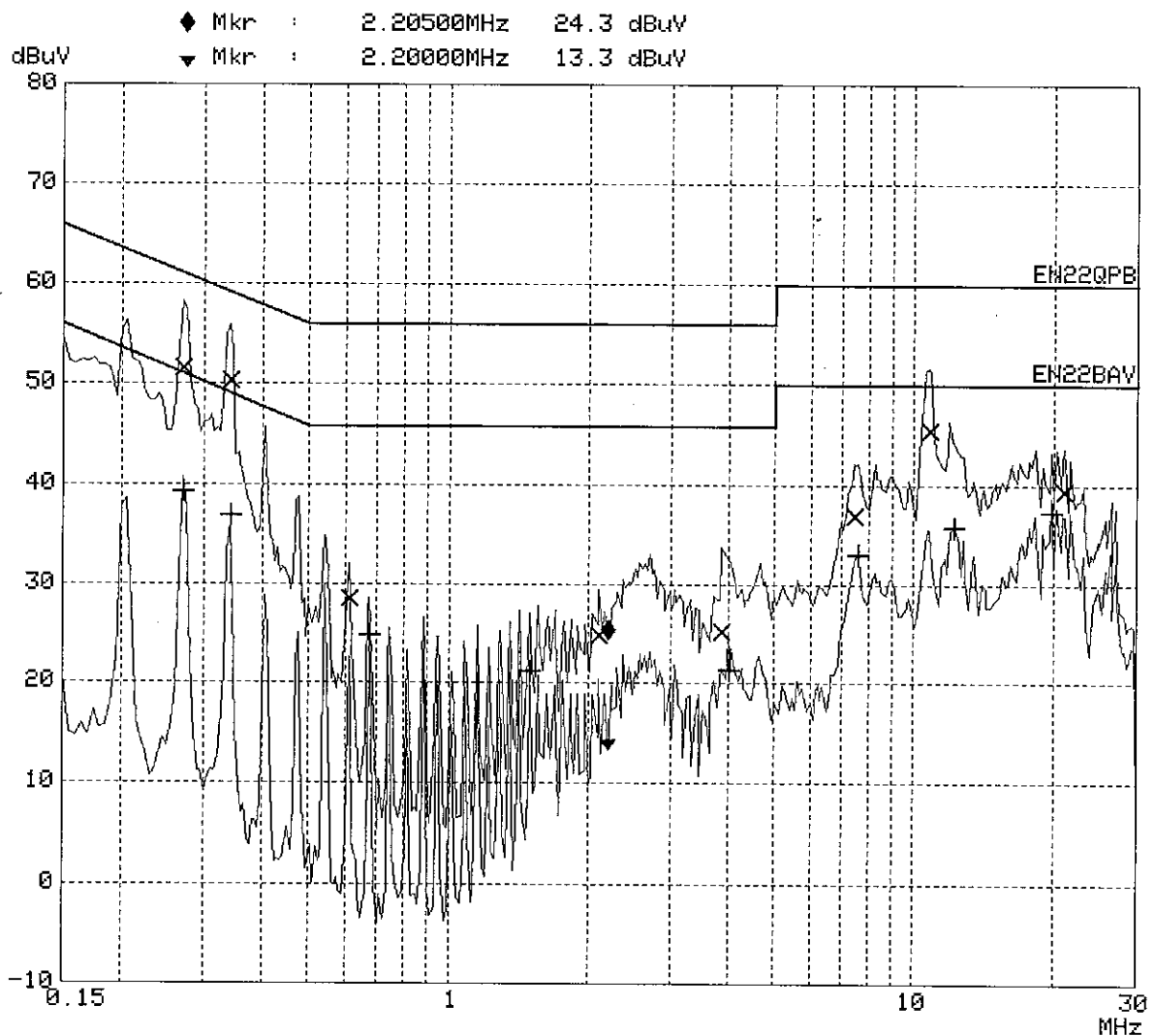
Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO., LTD.

EUT: FAX, PRINT, SCANNER  
Manuf: PRIX CO., LTD.  
Op Cond: COPY MODE  
Test Spec: FCC PART 15  
Comment: LINE: LINE-PE  
Date: 26. Apr 03 13:05

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	10dBLN	OFF

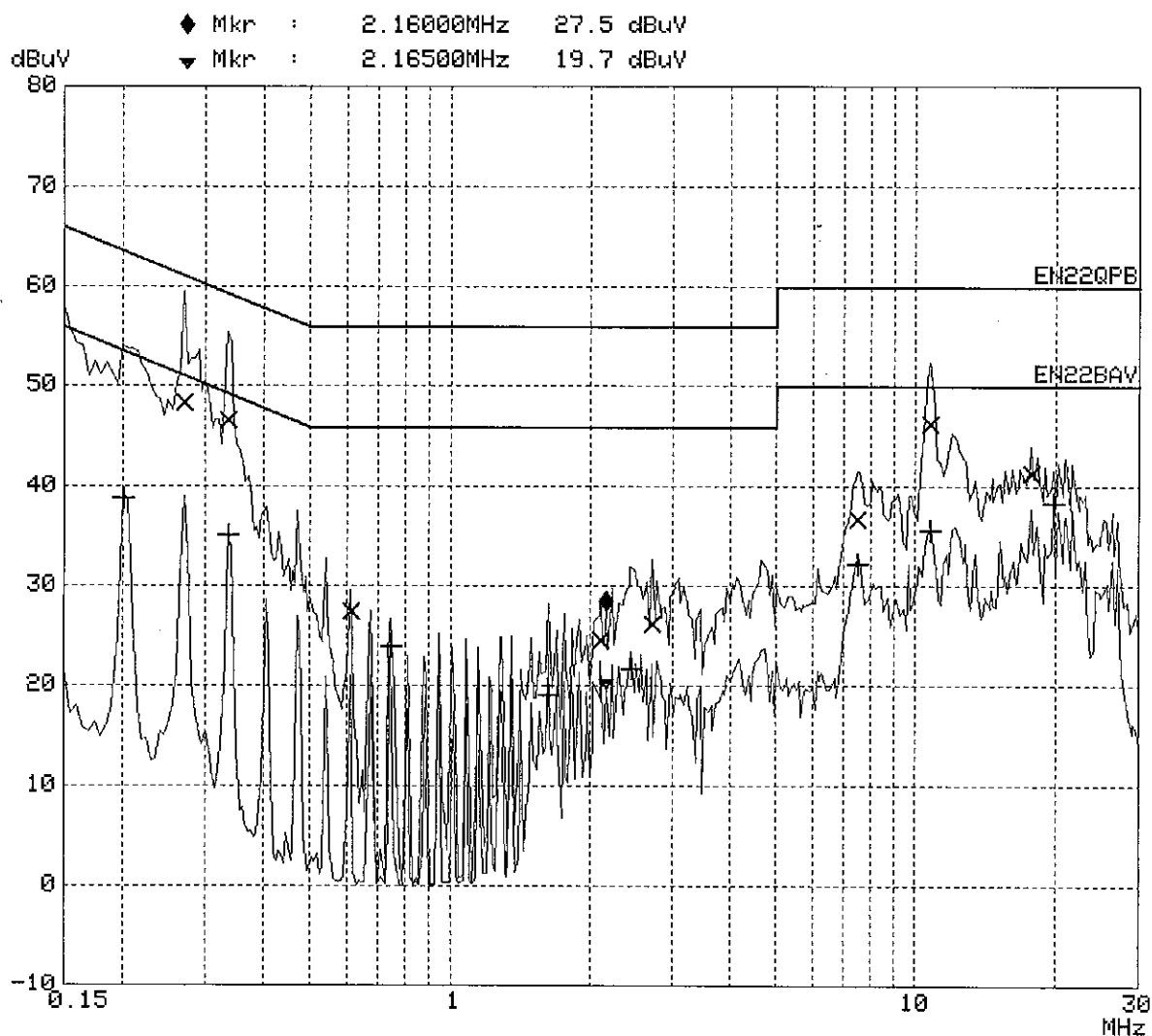
Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO., LTD.

EUT: FAX, PRINT, SCANNER  
Manuf: PRIX CO., LTD.  
Op Cond: COPY MODE  
Test Spec: FCC PART 15  
Comment: LINE: NEUTRAL\_PE  
Date: 26. Apr 03 11:26

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

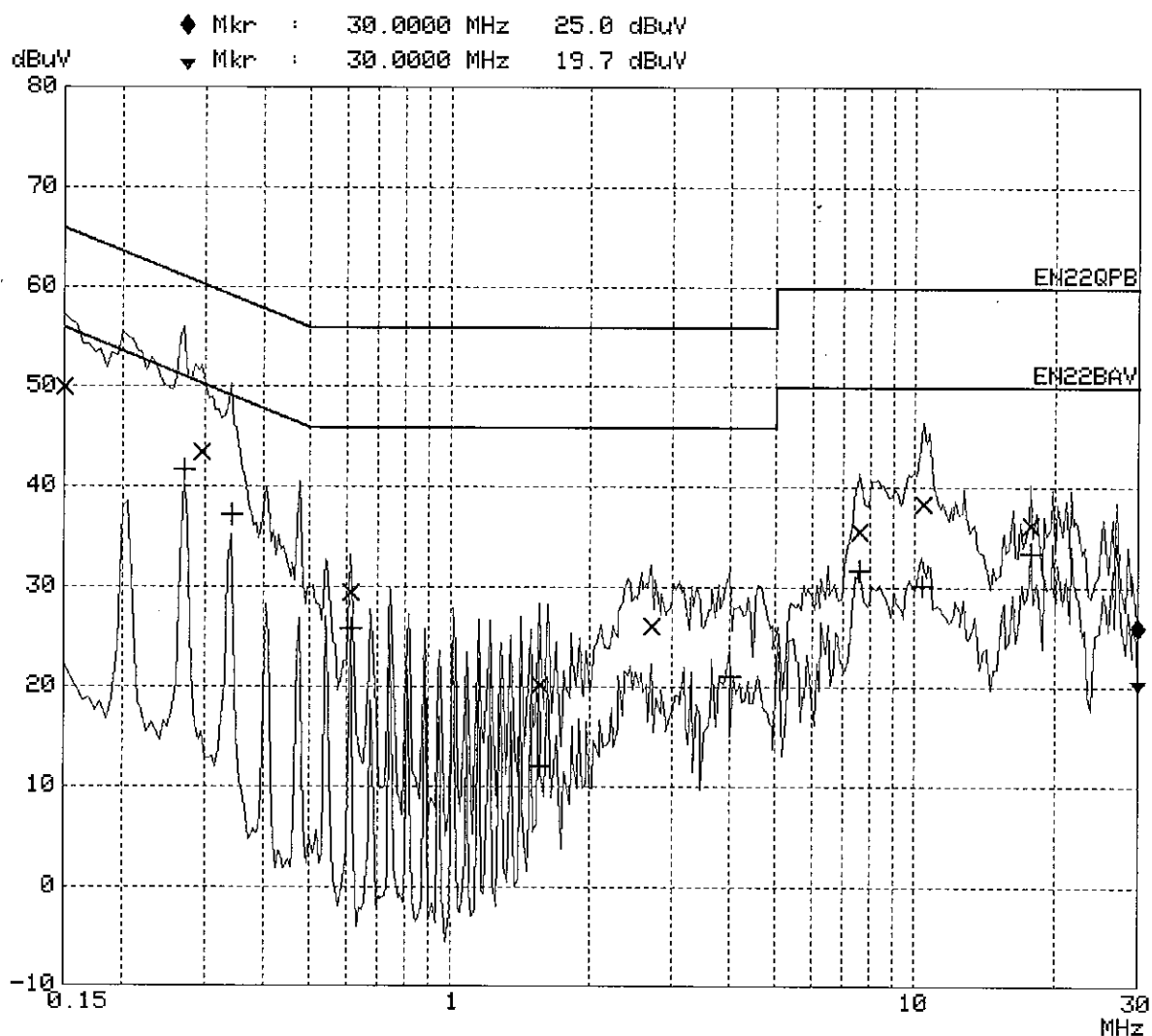
Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO., LTD.

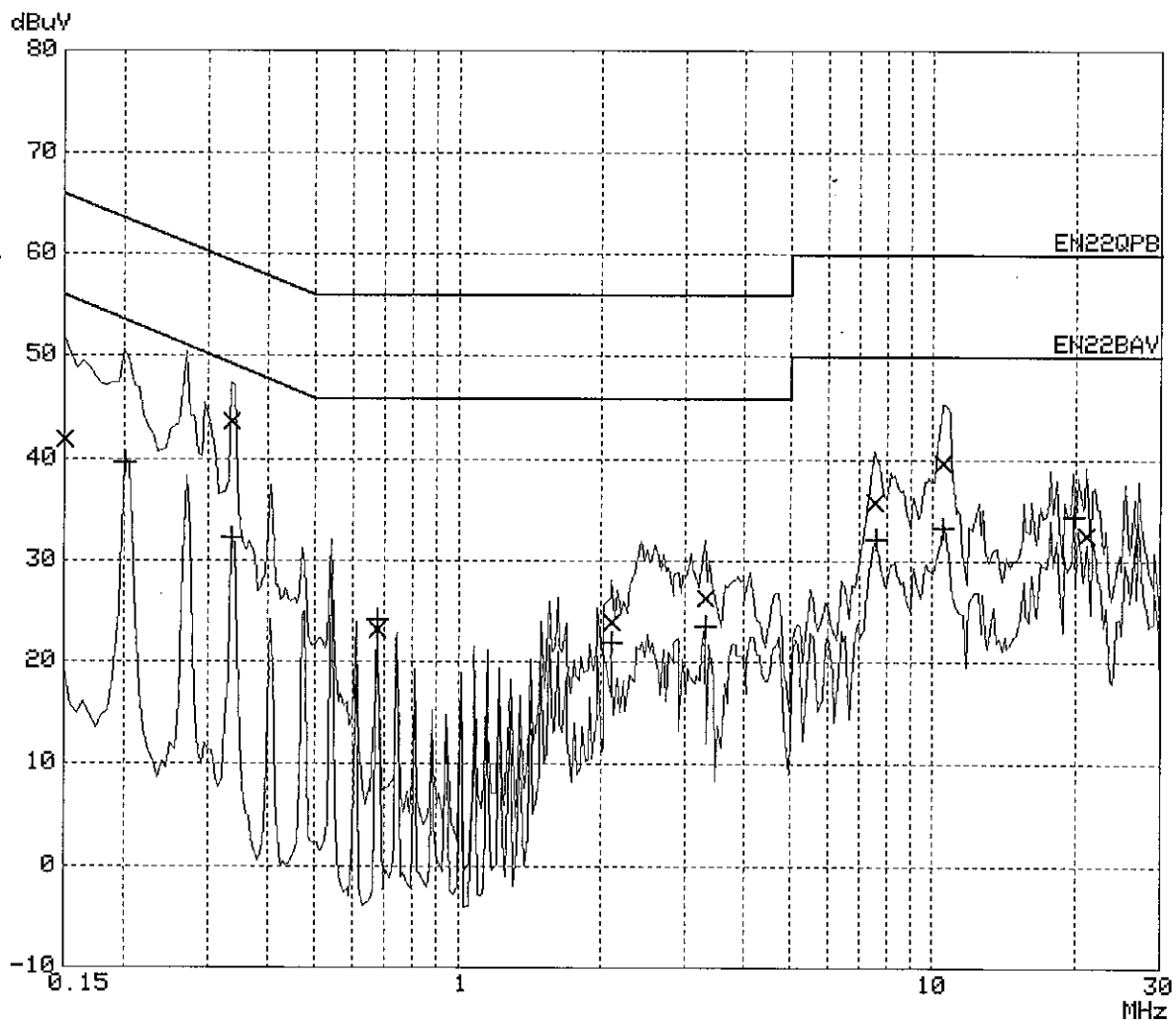
EUT: FAX, PRINT, SCANNER  
Manuf: PRIX CO., LTD.  
Op Cond: RECEIVER MODE  
Test Spec: FCC PART 15  
Comment: LINE: NEUTRAL PE  
Date: 26. Apr 03 10:56

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: FAX,PRINT,SCANNER  
Manuf: PRIX CO.,LTD.  
Op Cond: RECEIVER MODE  
Test Spec: FCC PART 15  
Comment: LINE: LINE\_PE  
Date: 26. Apr 03 11:08

## Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

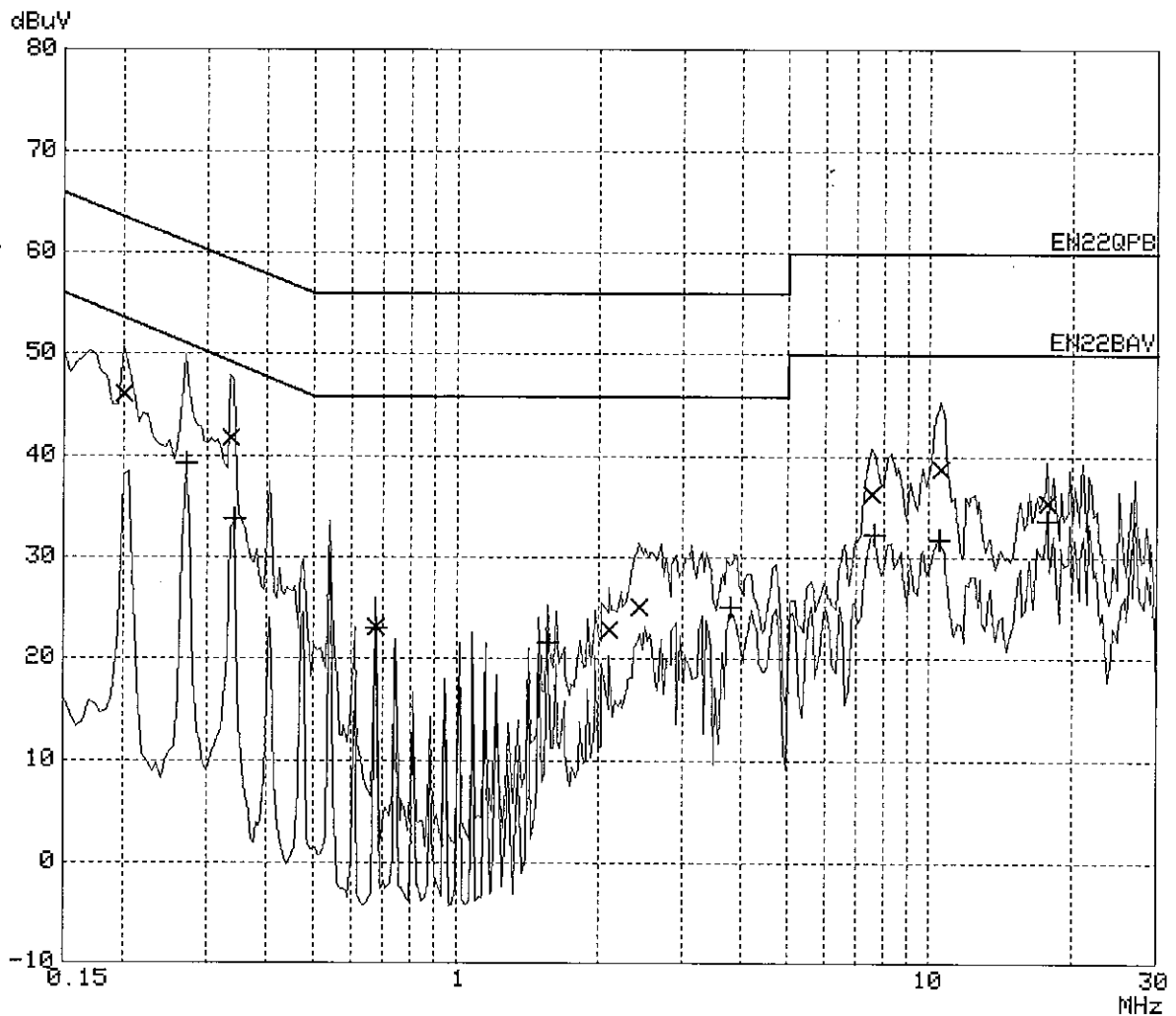
Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO., LTD.

EUT: FAX, PRINT, SCANNER  
Manuf: PRIX CO., LTD.  
Op Cond: TRANSMIT MODE  
Test Spec: FCC PART 15  
Comment: LINE: NEUTRAL\_PE  
Date: 26. Apr 03 10:44

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

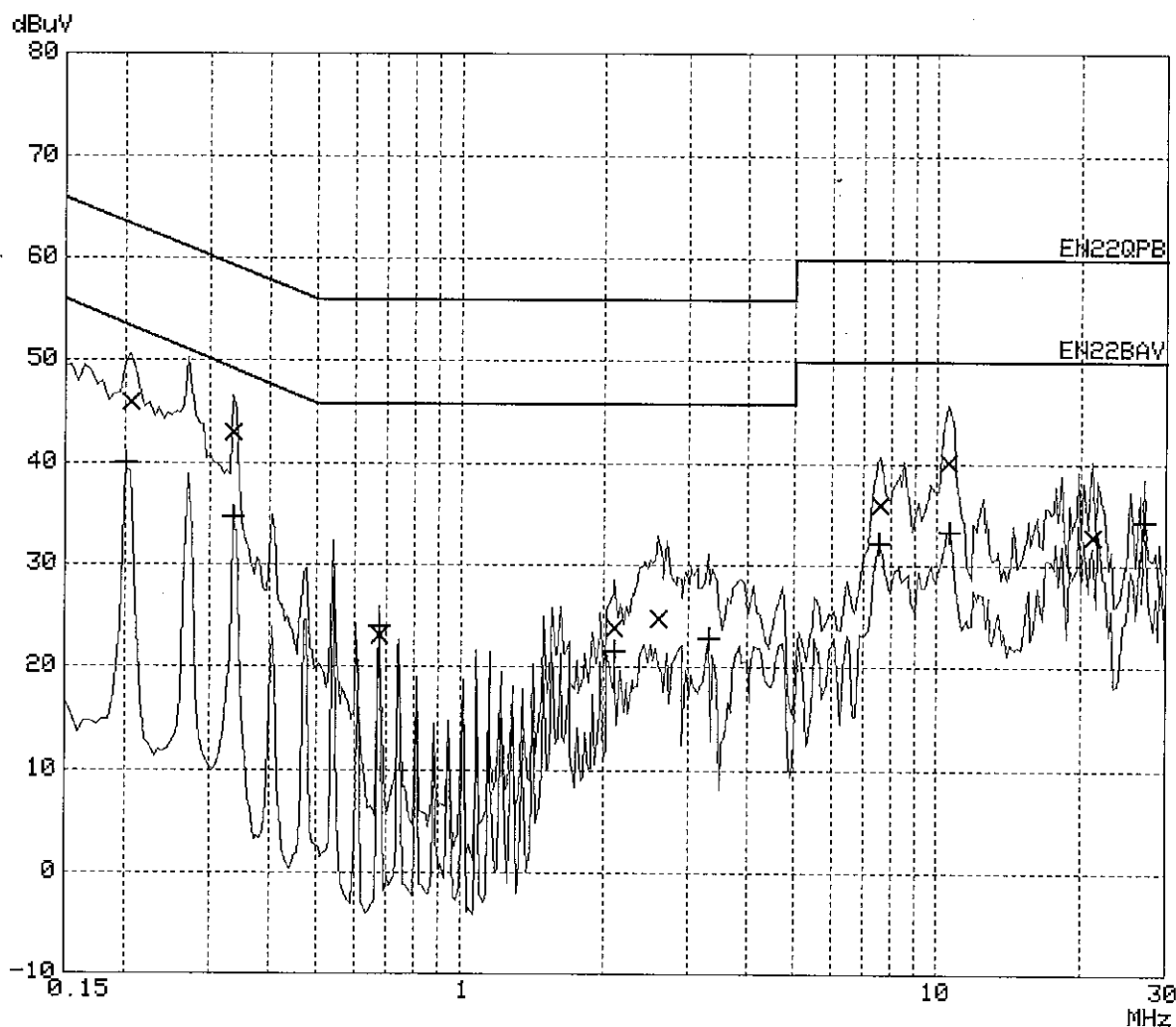
Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO., LTD.

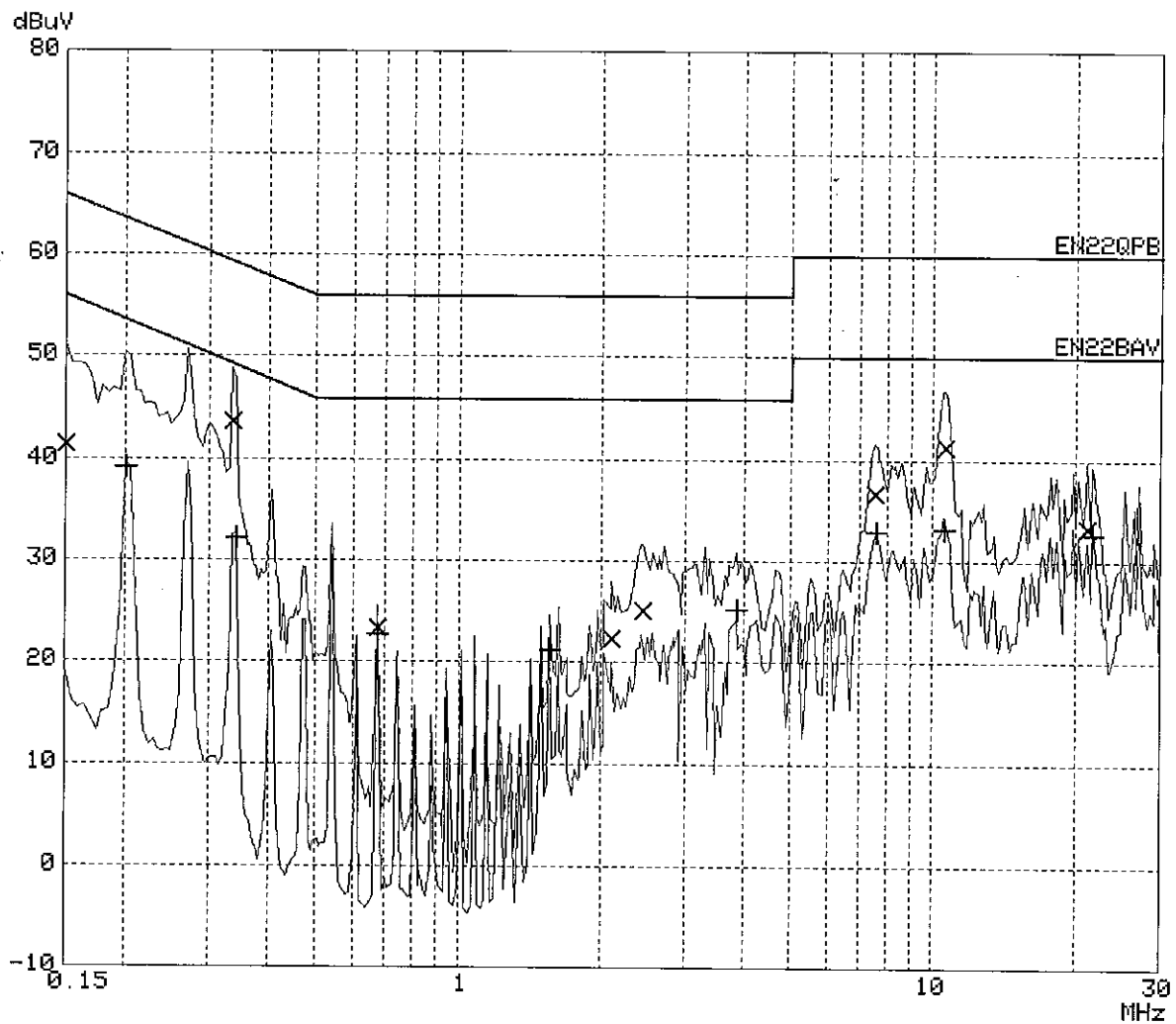
EUT: FAX, PRINT, SCANNER  
Manuf: PRIX CO., LTD.  
Op Cond: TRANSMIT MODE  
Test Spec: FCC PART 15  
Comment: LINE: LINE\_PE  
Date: 26. Apr 03 10:32

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO., LTD.

EUT: FAX, PRINT, SCANNER  
Manuf: PRIX CO., LTD.  
Op Cond: SCAN MODE(USB)  
Test Spec: FCC PART 15  
Comment: LINE: LINE\_PE  
Date: 26. Apr 03 10:19

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

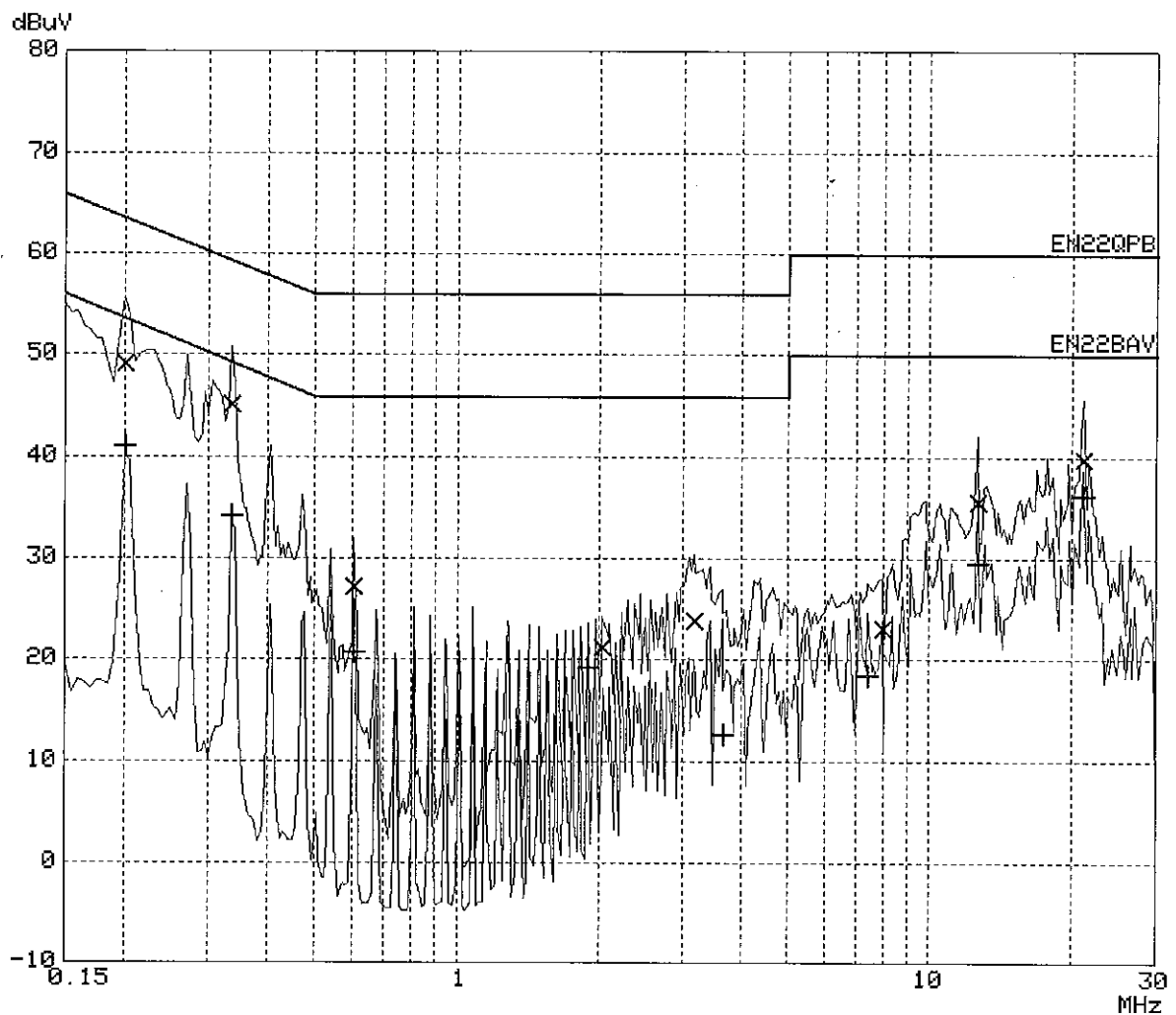
Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms

Subranges: 8

Acc Margin: 40dB



# PRIX CO., LTD.

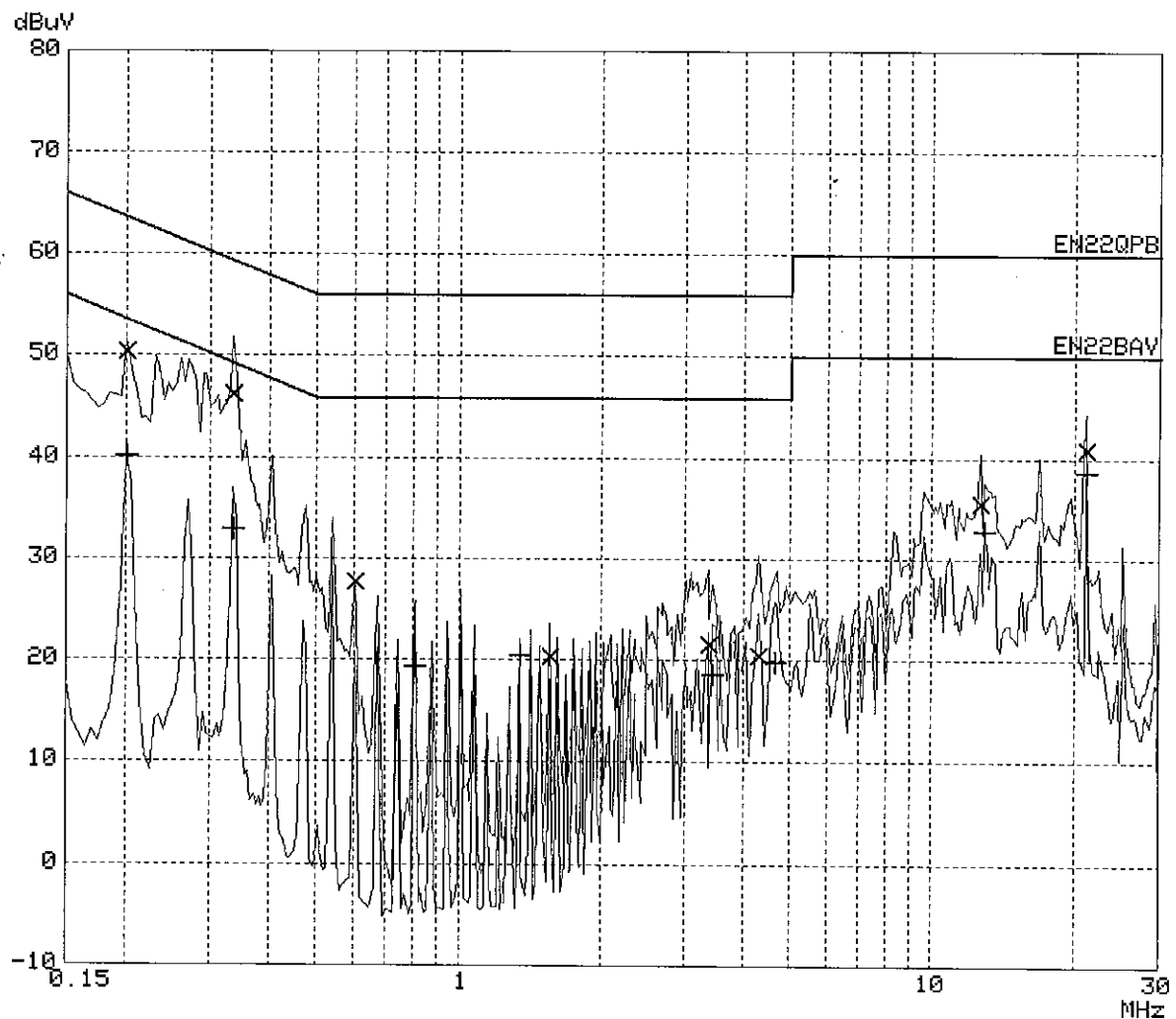
EUT: FAX, PRINT, SCANNER  
Manuf: PRIX CO., LTD.  
Op Cond: SCAN MODE(USB)  
Test Spec: FCC PART 15  
Comment: LINE: NEUTRAL\_PE  
Date: 26. Apr 03 10:05

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

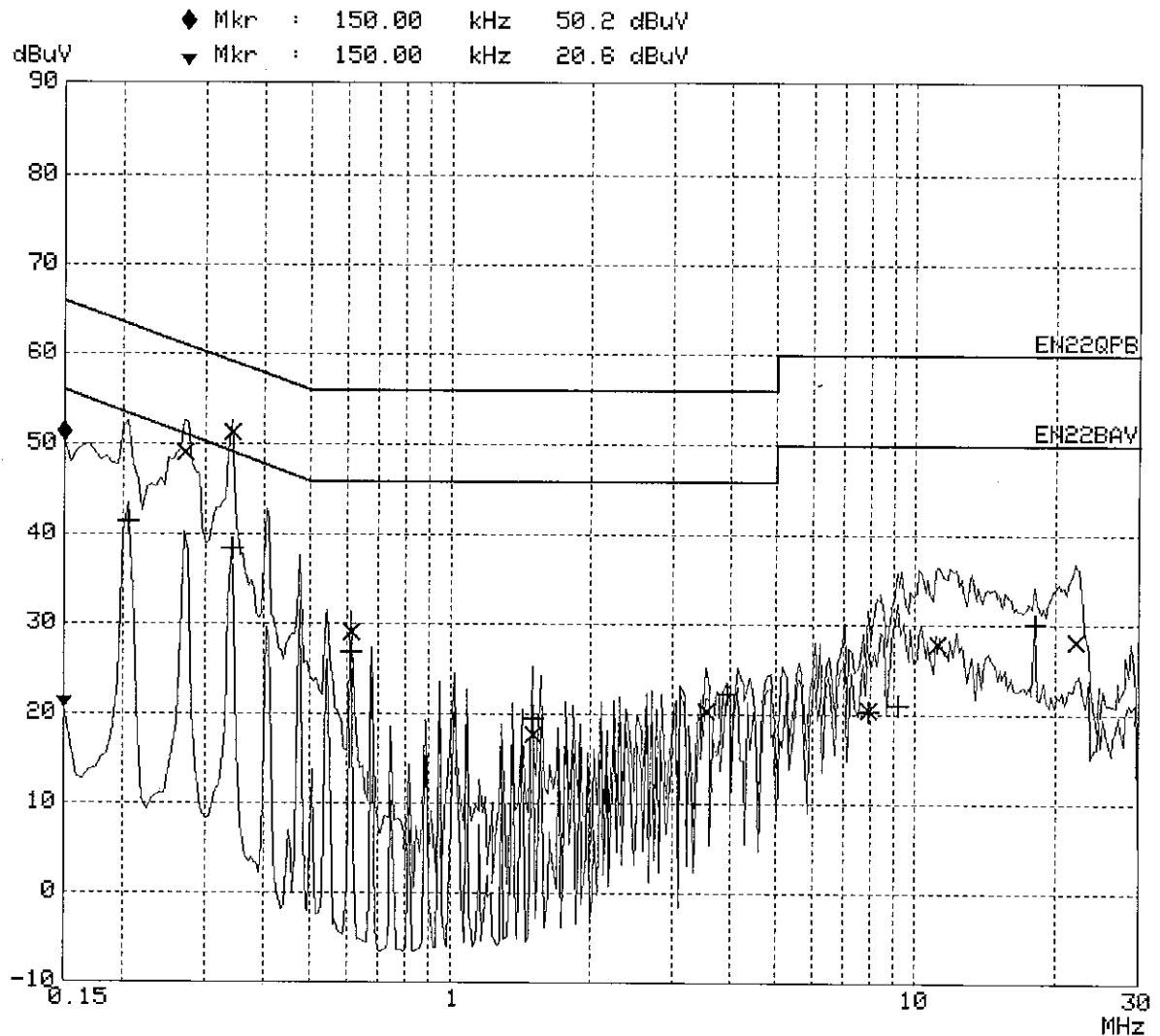
EUT: FAX,PRINT,SCANNER  
Manuf: PRIX CO.,LTD.  
Op Cond: SCANNER(PARALLEL)  
Test Spec: FCC PART 15  
Comment: MODEL : PX-820M  
LINE : LINE-PE  
File name: 115N.RES  
Date: 24. Apr 03 11:47

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO., LTD.

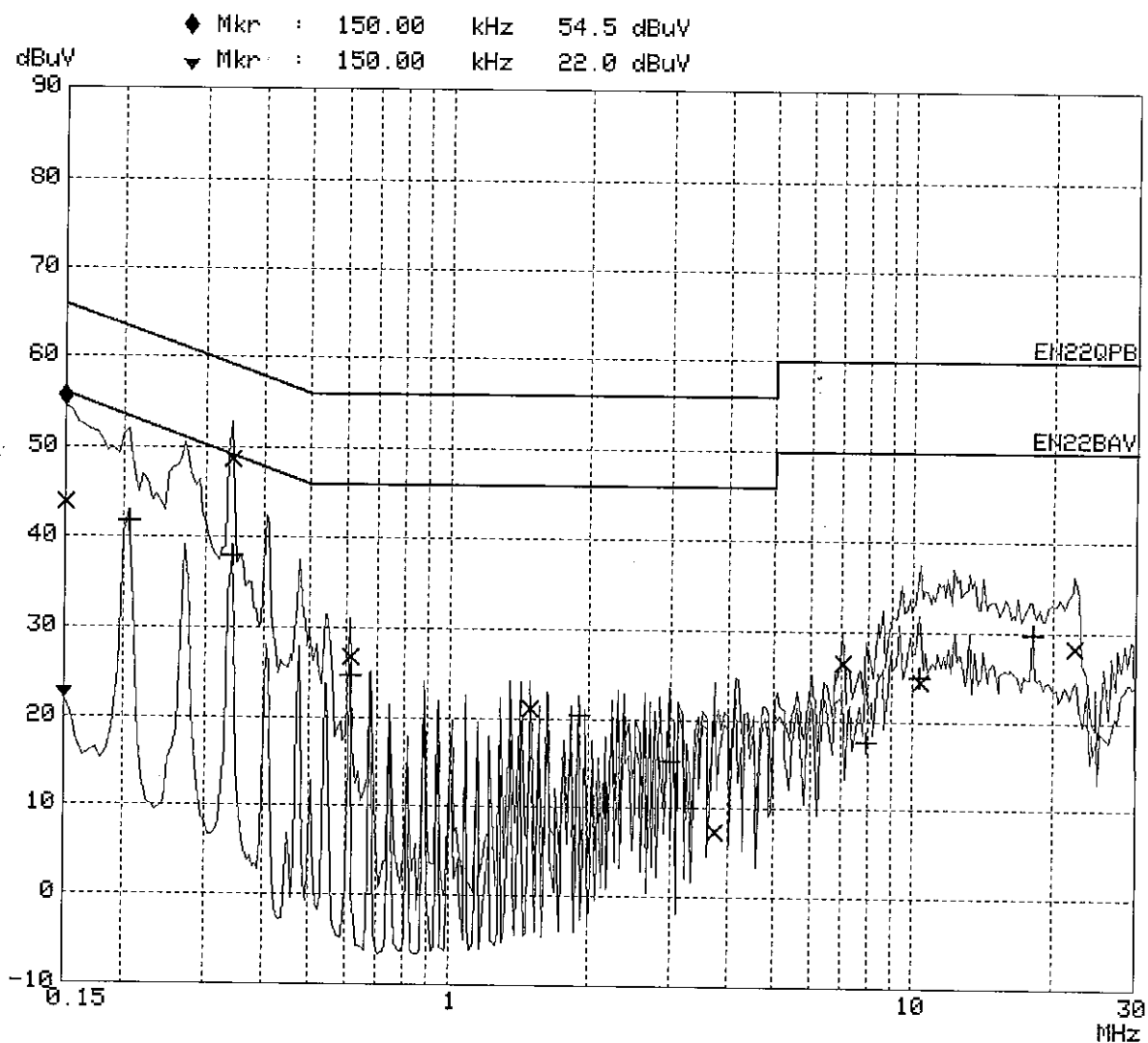
EUT: FAX, PRINT, SCANNER  
Manuf: PRIX CO., LTD.  
Op Cond: SCANNER(PARALLEL)  
Test Spec: FCC PART 15  
Comment: MODEL : PX-820M  
LINE : NEUTRAL-PE  
File name: 115N.RES  
Date: 24. Apr 03 12:14

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: FAX,PRINT,SCANNER  
Manuf: PRIX CO.,LTD.  
Op Cond: PRINT(PARALLEL)  
Test Spec: FCC PART 15  
Comment: MODEL : PX-820M  
LINE : LINE-PE  
File name: 115N.RES  
Date: 24. Apr 03 11:33

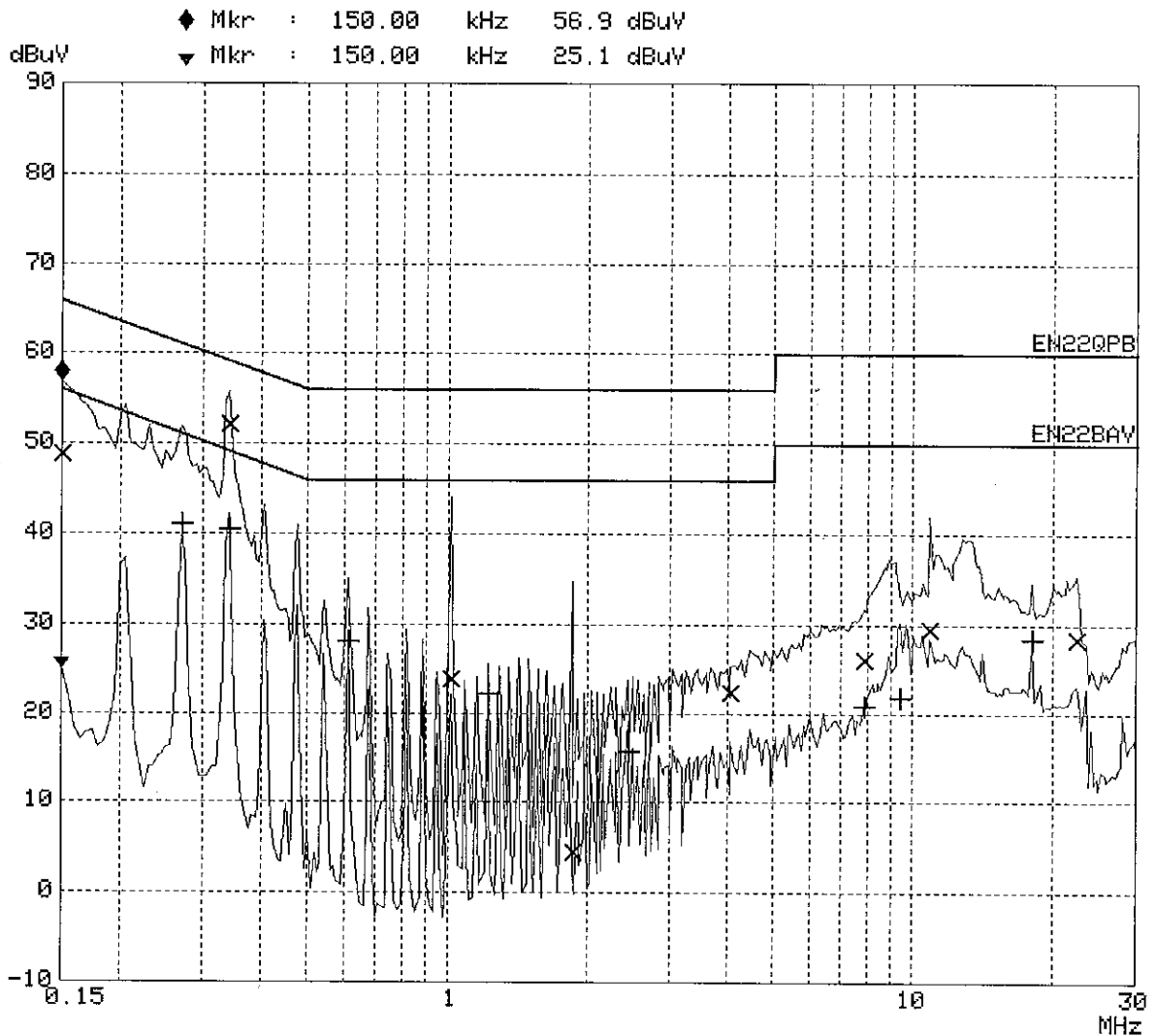
## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV

Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

EUT: FAX,PRINT,SCANNER  
Manuf: PRIX CO.,LTD.  
Op Cond: PRINT(PARALLEL)  
Test Spec: FCC PART 15  
Comment: MODEL : PX-820M  
LINE : NEUTRAL-PE  
File name: 115N.RES  
Date: 24. Apr 03 11:18

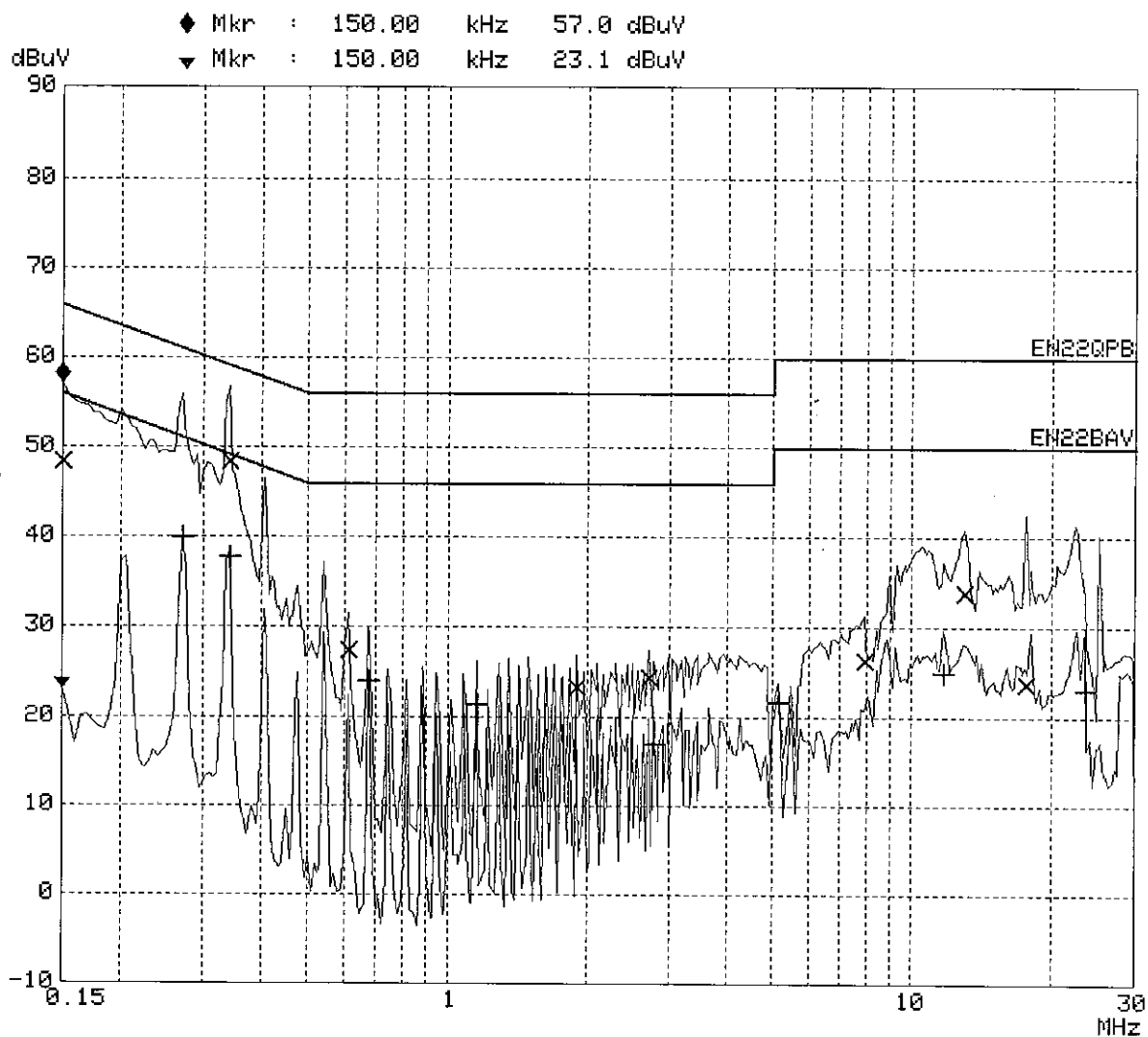
## Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV

Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

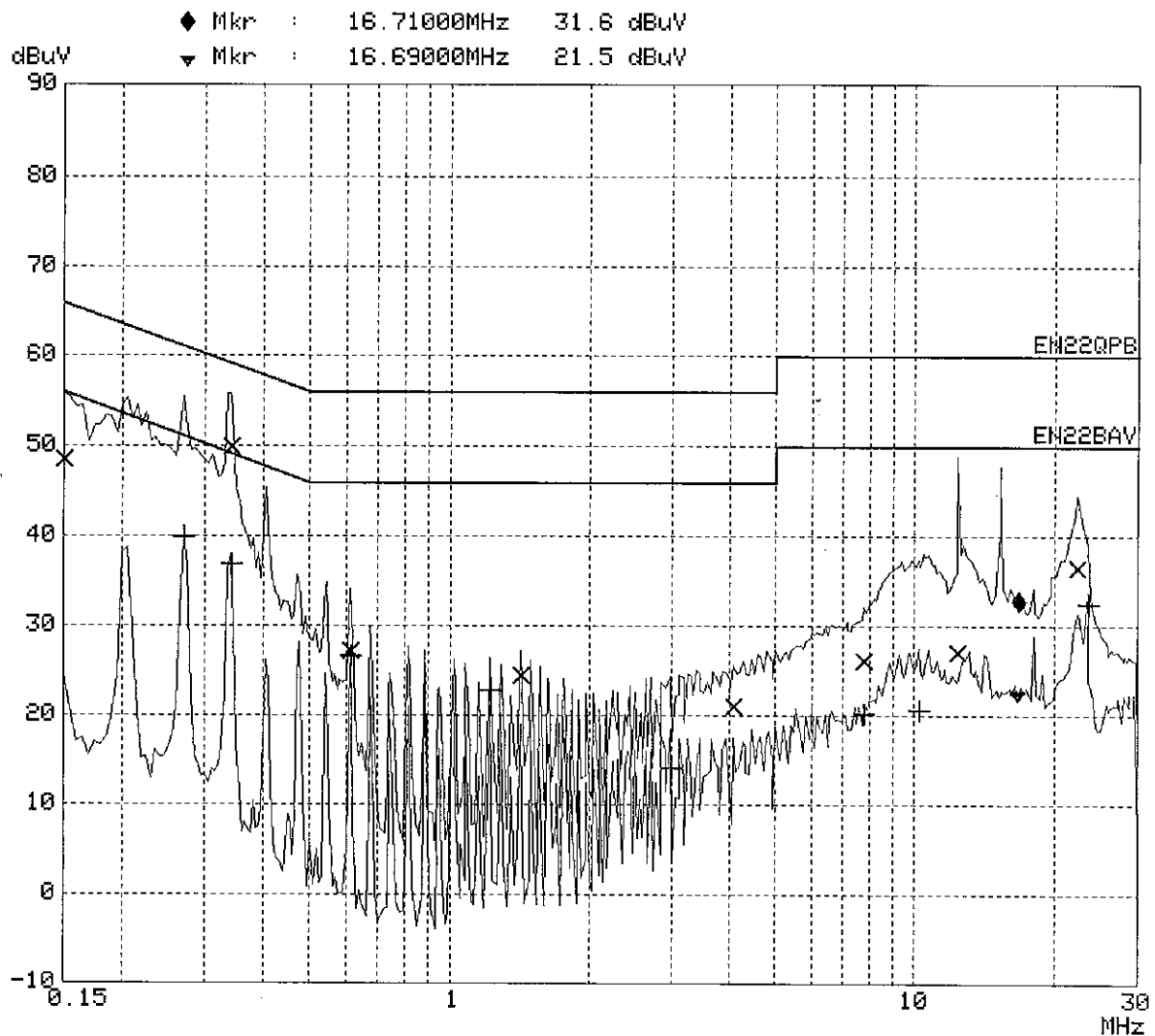
EUT: FAX,PRINT,SCANNER  
Manuf: PRIX CO.,LTD.  
Op Cond: PRINT MODE(USB)  
Test Spec: FCC PART 15  
Comment: MODEL : PX-820M  
LINE : LINE-PE  
File name: 115N.RES  
Date: 24. Apr 03 10:32

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

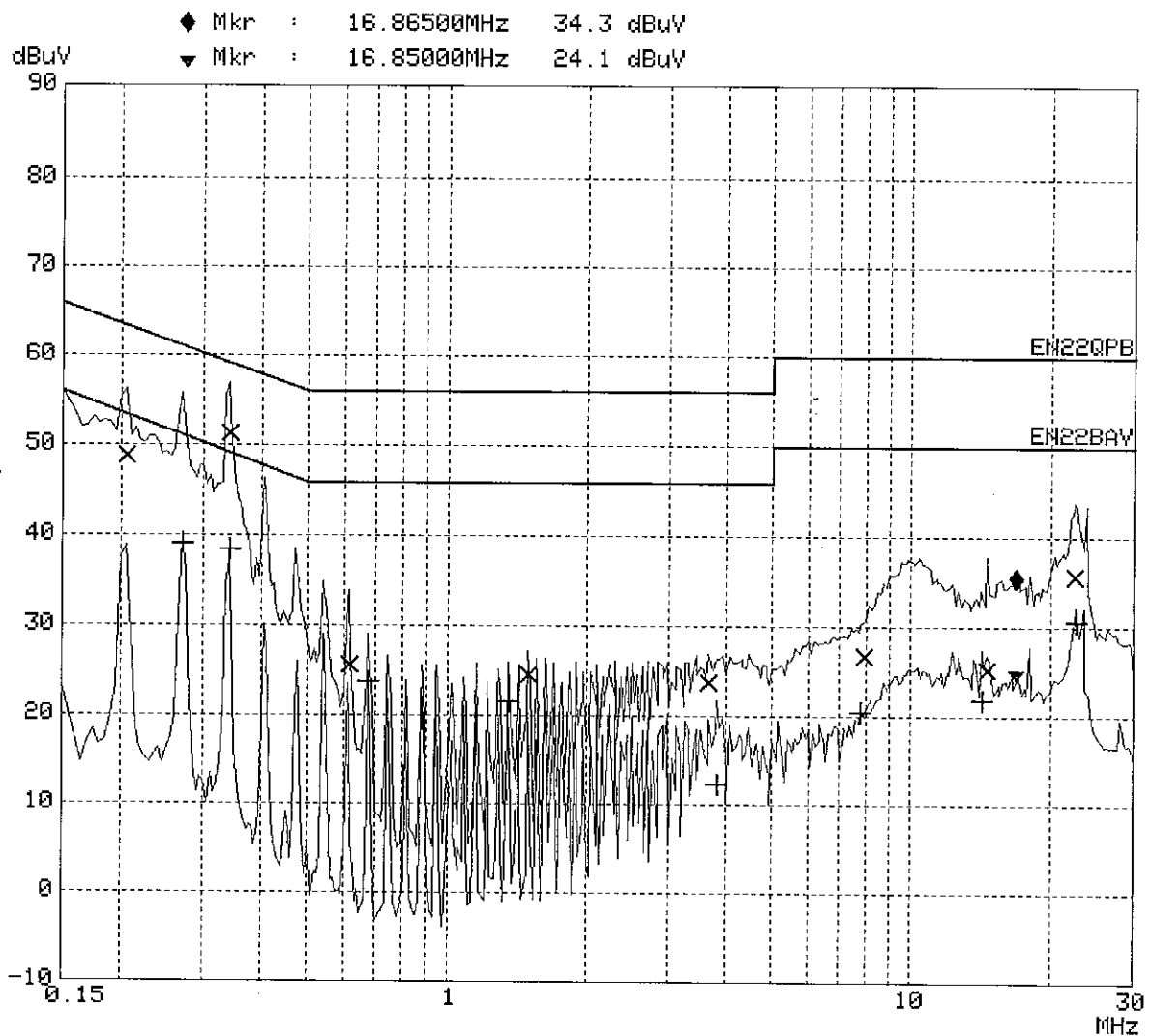
EUT: FAX,PRINT,SCANER  
Manuf: PRIX CO.,LTD.  
Op Cond: PRINT MODE(USB)  
Test Spec: FCC PART 15  
Comment: MODEL : PX-820M  
LINE : NEUTRAL\_PE  
File name: 115N.RES  
Date: 24. Apr 03 10:45

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



# PRIX CO.,LTD.

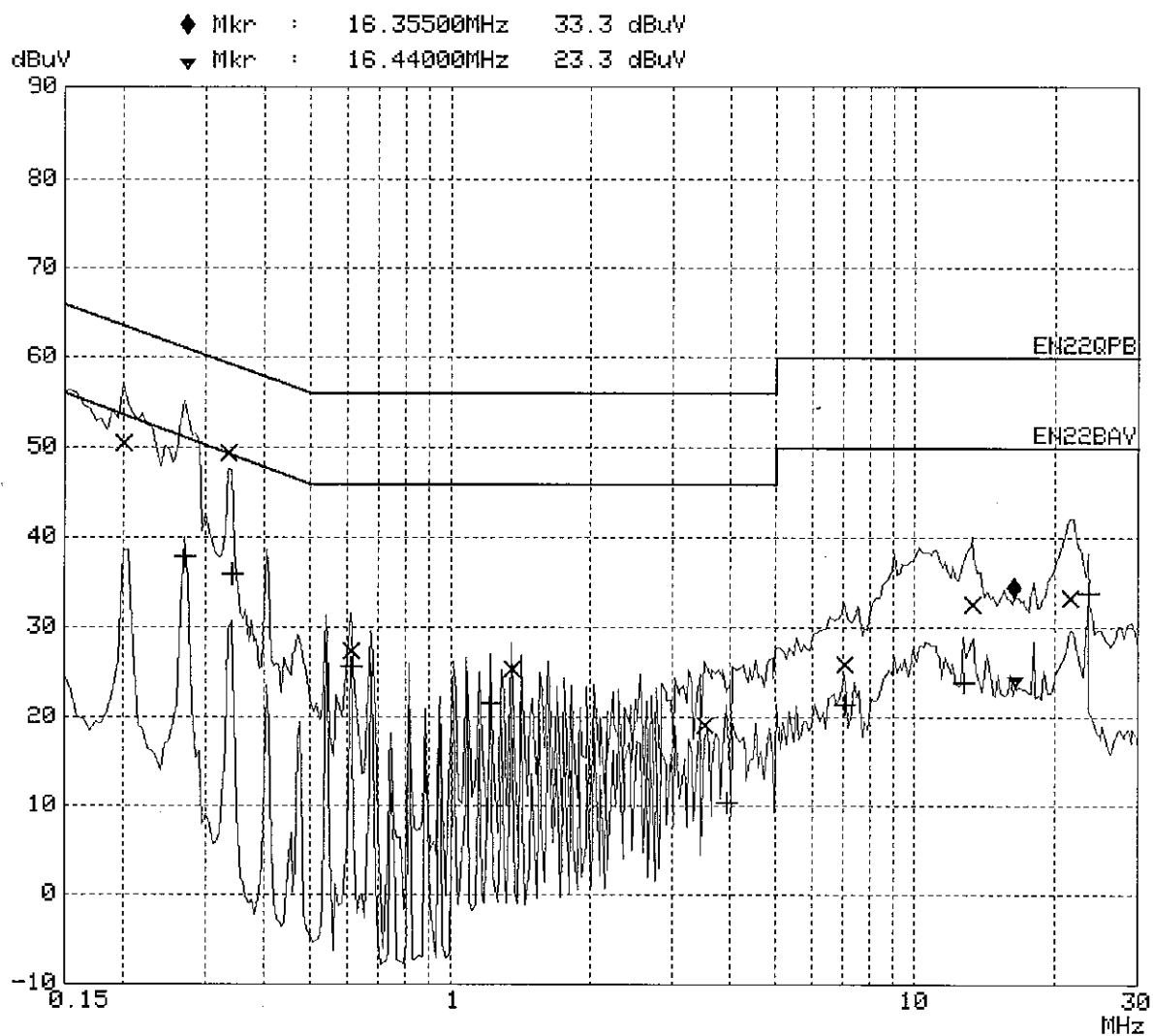
EUT: FAX,PRINT,SCANNER  
 Manuf: PRIX CO.,LTD.  
 Op Cond: COPY MODE  
 Test Spec: FCC PART 15  
 Comment: MODEL : PX-820M  
 LINE : LINE-PE  
 File name: 115N.RES  
 Date: 24. Apr 03 10:16

## Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO	LN OFF

Transducer No.	Start	Stop	Name
1	150k	30M	CE_LINE

Final Measurement: x QP / + AV  
 Meas Time: 500 ms  
 Subranges: 8  
 Acc Margin: 40dB



# PRIX CO., LTD.

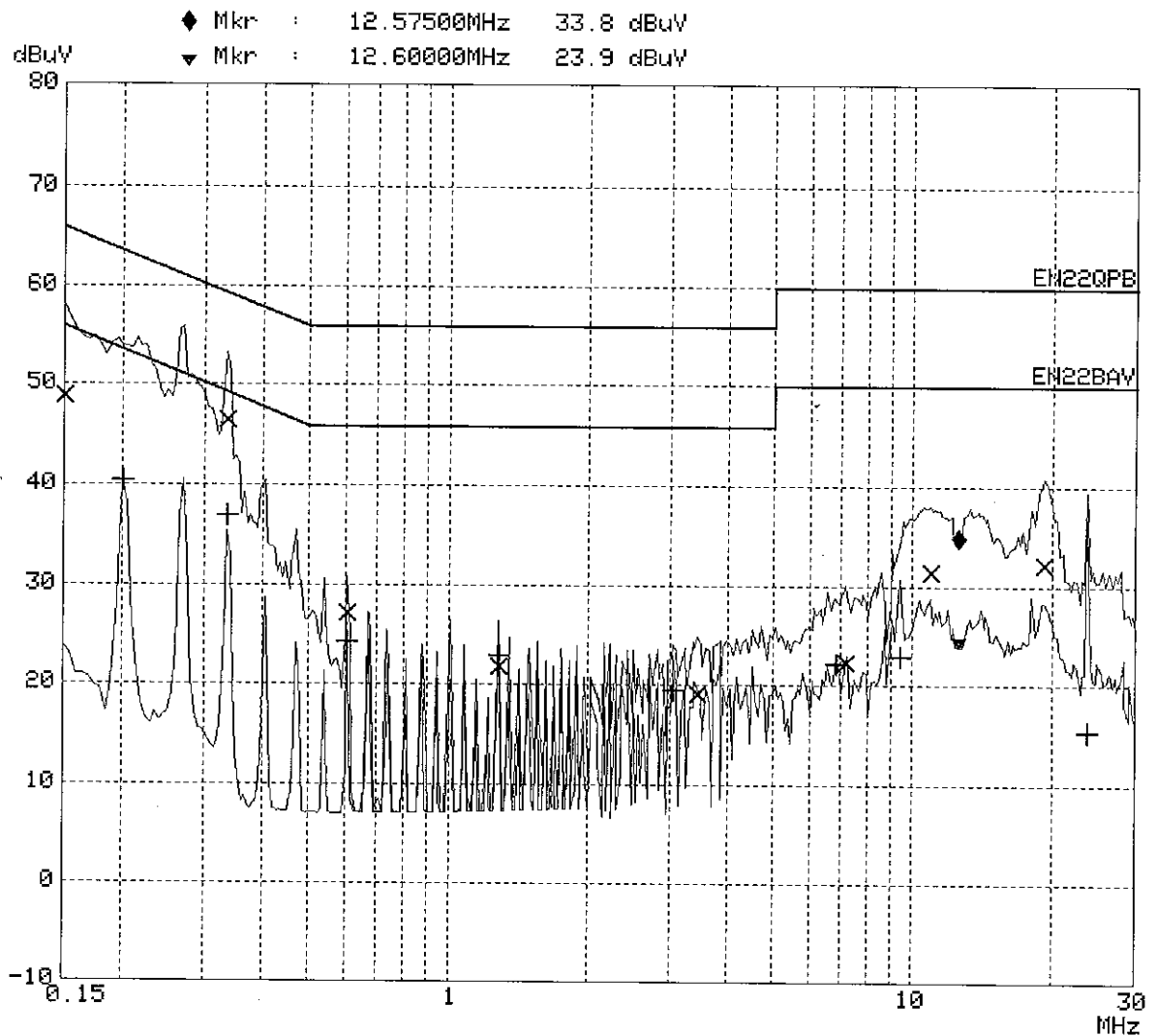
EUT: FAX, PRINT, SCANNER  
Manuf: PRIX CO., LTD.  
Op Cond: COPY MODE  
Test Spec: FCC PART15  
Comment: MODEL: PX-820M  
LINE: NEUTRAL\_PE  
Date: 24. Apr 03 09:54

## Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	15dBLN	OFF

Transducer No.	Start	Stop	Name
2	150k	30M	CE_NEUTL

Final Measurement: x QP / + AV  
Meas Time: 200 ms  
Subranges: 8  
Acc Margin: 40dB



## ***SAMPLE CALCULATIONS***

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$$\text{dB } \mu\text{V} = 20 \log_{10} (\mu\text{V}/\text{m})$$

$$\mu\text{V} = 10^{(\text{dB } \mu\text{V}/20)}$$

### **EX. 1.**

@57.7 MHz

Class B limit = 100  $\mu\text{V}/\text{m}$  = 40.0 dB  $\mu\text{V}/\text{m}$

Reading = 19.1 dB  $\mu\text{V}$  (calibrated level)

Antenna factor + Cable Loss = 10.12 dB

Total = 29.22 dB  $\mu\text{V}/\text{m}$

Margin = 40.0 - 29.22 = 10.78

**10.78 dB below the limit**

## ACCURACY OF MEASUREMENT

The Measurement Uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 with the confidence level of 95%

### 1. Radiation Uncertainty Calculation

<i>Contribution</i>	<i>Probability Distribution</i>	<i>Uncertainty(+/-dB)</i>
Antenna Factor	Normal (k=2)	$\pm 0.5$
Cable Loss	Normal (k=2)	$\pm 0.04$
Receiver Specification	Rectangular	$\pm 2.0$
Antenna directivity	Rectangular	$\pm 1.0$
Antenna Factor variation with Height		
Antenna Phase Center Variation		
Antenna Factor Frequency Interpolation		
Measurement Distance Variation		
Site Imperfections	Rectangular	$\pm 2.0$
Mismatch:Receiver VRC $r_i=0.3$ Antenna VRC $r_R=0.1(B_i)0.4(L_p)$ Uncertainty Limits $20\log(1+/-r_i r_R)$	U-Shaped	$+ 0.25 / - 0.26$
System Repeatability	Std.deviation	$\pm 0.05$
Repeatability of EUT	-	-
Combined Standard Uncertainty	Normal	$\pm 1.77$
Expanded Uncertainty U	Normal (k=2)	$\pm 3.5$

### 2. Conducted Uncertainty Calculation

<i>Contribution</i>	<i>Probability Distribution</i>	<i>Uncertainty(+/-dB)</i>
Receiver Specification	Normal (k=2)	$\pm 2.0$
LISN coupling spec.	Normal (k=2)	$\pm 0.4$
Cable and input attenuator cal.	Rectangular	$\pm 0.4$
Mismatch:Receiver VRC $r_i=0.3$ LISN vrc $r_g=0.1$ Uncertainty Limits $20\log(1+/-r_i r_R)$	U-Shaped	$\pm 0.26$
System Repeatability	Std.deviation	$\pm 0.68$
Repeatability of EUT	-	-
Combined Standard Uncertainty	Normal	$\pm 1.18$
Expanded Uncertainty U	Normal (k=2)	$\pm 2.4$

**TEST EQUIPMENT**

No.	Instrument	Manufacturer	Model	Calibration Date
1	*Test Receiver	R & S	ESCS 30	2002.09
2	Test Receiver	PMM	PMM9000	2002.06
3	*Amplifier	HP	8447F	2002.09
4	*Amplifier	Agilent	8447F	2002.07
5	*Spectrum Analyzer	Advantest	R3265A	2003.03
6	*Logbicon Super Antenna	Schwarzbeck	VULB9166	2002.05
7	Log-Periodic Antenna	R & S	HL025	2003.01
8	Dipole Antenna	R & S	VHA9103	2002.05
9	Dipole Antenna	R & S	UHA9105	2002.05
11	Biconical Log Antenna	ARA	LPB-2520/A	2003.01
12	Absorbing Clamp	R & S	MDS21	2003.03
13	High Voltage Probe	R & S	ESH2-Z3	2002.09
14	Signal Generator	R & S	SMP02	2002.12
15	Matching Pad	R & S	RAM358.5414.02	2002.05
16	*LISN	R & S	ESH3-Z5	2002.10
17	*LISN	Kyoritsu	KNW-407	2003.04
18	LISN	Kyoritsu	KNW-408	2002.12
19	*Position Controller	EM Eng.	N/A	N/A
20	*Turn Table	EM Eng.	N/A	N/A
21	*Antenna Mast	EM Eng.	N/A	N/A
22	*Anechoic Chamber	EM Eng.	N/A	N/A
23	*Shielded Room	EM Eng.	N/A	N/A

\*) Test equipment used during the test

## ***RECOMMENDATION/CONCLUSION***

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The data collected shows that the **PRIX Co., Ltd.**

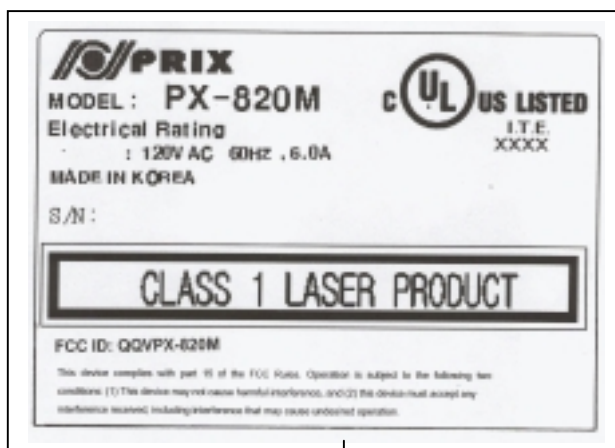
FCC ID : **QQVPX-820M, Laser FAX/Printer/Scanner.** complies with § 15.107 and 15.109 of the FCC Rules.

The highest emission observed was at **0.34 MHz** for conducted emissions with a margin of **6.5 dB**, at **129.00 MHz** for radiated emissions with a margin of **5.3 dB**.

## APPENDIX A – SAMPLE LABEL

### Labelling Requirements

The sample label shown shall be *permanently affixed* at a conspicuous location on the device and be readily visible to the user at the time of purchase.



- **FCC ID Location of EUT**



## ***APPENDIX B – CIRCUIT DIAGRAM***

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## ***APPENDIX E – USER’S MANUAL***

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## ***APPENDIX F – SCHEMATIC DIAGRAM***

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