



Written by : D. RAUD

## **FCC CERTIFICATION TEST REPORT**

**EQUIPMENT FCC ID : MX5402920001**

January 18, 2002

P310  
Appendices

**Test report # : 019054DR**

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# **P310 PRINTER MODEL DETAILED TEST RESULTS**



# FCC CERTIFICATION TEST REPORT

EQUIPMENT FCC ID : MX5402920001

P310  
Annex :1-1

Written by : D. RAUD

January 18, 2002

Test report # : 019054DR

PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15/2000 CLASS B  
MEASUREMENT : AC POWER LINE CONDUCTED  
CONDITIONS : 120V/60Hz  
MEASUREMENTS DONE BY : D. RAUD

28 Nov 2001 16:28:36

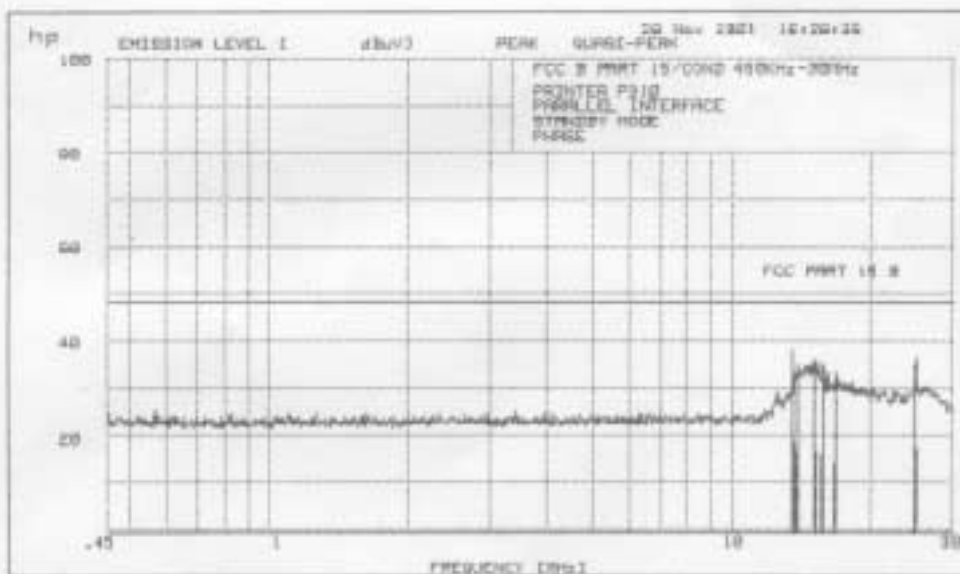
EQUIPMENT FCC ID :  
MX5402920001

1. SETUP  
1.2 FCC B PART 15/COND 450KHz-30MHz

PRINTER P310  
PARALLEL INTERFACE  
STANDBY MODE  
PHASE

Quasi-Peaks above -26 dB of Limit Line #1  
peak criteria = 6 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	13.62	38.1	-9.9
2	13.86	32.8	-16.2
3	15.08	33.8	-14.2
4	15.72	32.2	-15.8
5	16.74	28.7	-19.3
6	24.94	34.8	-13.2





# FCC CERTIFICATION TEST REPORT

EQUIPMENT FCC ID : MX5402920001

P310  
Annex :1-2

Written by : D. RAUD

January 18, 2002

Test report # : 019054DR

PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15/2000 CLASS B  
MEASUREMENT : AC POWER LINE CONDUCTED  
CONDITIONS : 120V/60Hz  
MEASUREMENTS DONE BY : D.RAUD

28 Nov 2001 16:41:36

## 1. SETUP

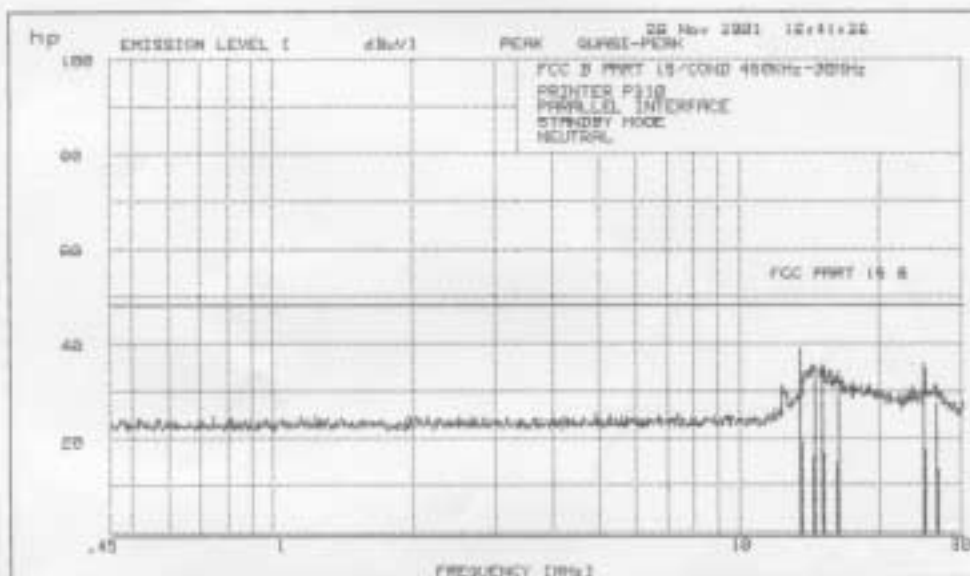
1.2 FCC B PART 15/COND 450KHz-30MHz

EQUIPMENT FCC ID :  
MX5402920001

PRINTER P310  
PARALLEL INTERFACE  
STANDBY MODE  
NEUTRAL

Quasi-Peaks above -25 dB of Limit Line #1  
peak criteria = 6 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	13.52	38.8	-9.2
2	14.52	33.1	-14.9
3	15.08	34.5	-13.5
4	16.33	30.3	-17.7
5	24.94	35.6	-12.4
6	26.56	27	-21.0





# FCC CERTIFICATION TEST REPORT

EQUIPMENT FCC ID : MX5402920001

P310  
Annex :1-3

Written by : D. RAUD

January 18, 2002

Test report # : 019054DR

PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15/2000 CLASS B  
MEASUREMENT : AC POWER LINE CONDUCTED  
CONDITIONS : 120V/60Hz  
MEASUREMENTS DONE BY : D.RAUD

28 Nov 2001 17:01:00

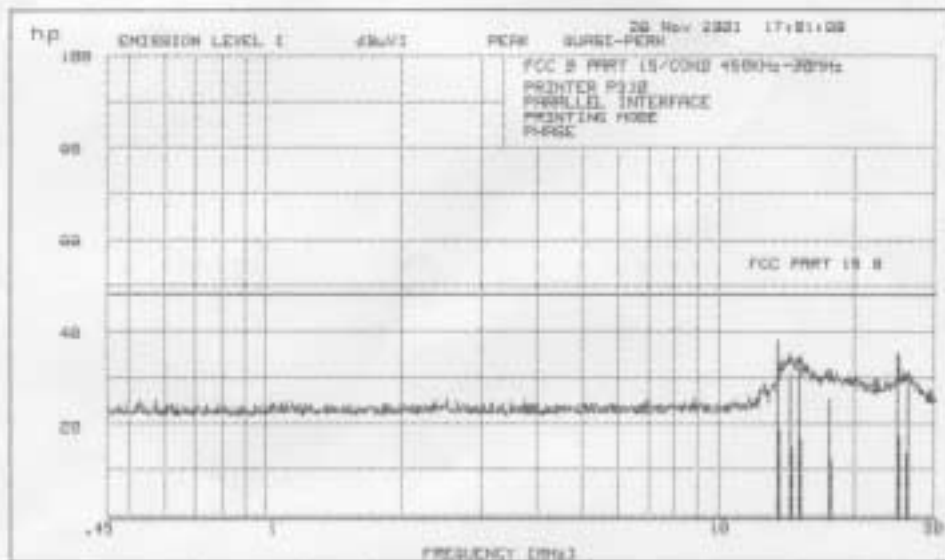
EQUIPMENT FCC ID :  
MX5402920001

1. SETUP  
1.2 FCC B PART 15/COND 450KHz-30MHz

PRINTER P310  
PARALLEL INTERFACE  
PRINTING MODE  
PHASE

Quasi-Peaks above -25 dB of Limit Line #1  
peak criteria = 6 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	13.52	30	-10.0
2	14.46	30.6	-17.4
3	15.08	33.5	-14.5
4	17.61	25.4	-22.6
5	24.94	35.1	-12.9
6	26.23	28.2	-19.8





# FCC CERTIFICATION TEST REPORT

EQUIPMENT FCC ID : MX5402920001

P310  
Annex :1-4

Written by : D. RAUD

January 18, 2002

Test report # : 019054DR

PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15/2000 CLASS B  
MEASUREMENT : AC POWER LINE CONDUCTED  
CONDITIONS : 120V/60Hz  
MEASUREMENTS DONE BY : D.RAUD

28 Nov 2001 17:09:46

EQUIPMENT FCC ID :  
MX5402920001

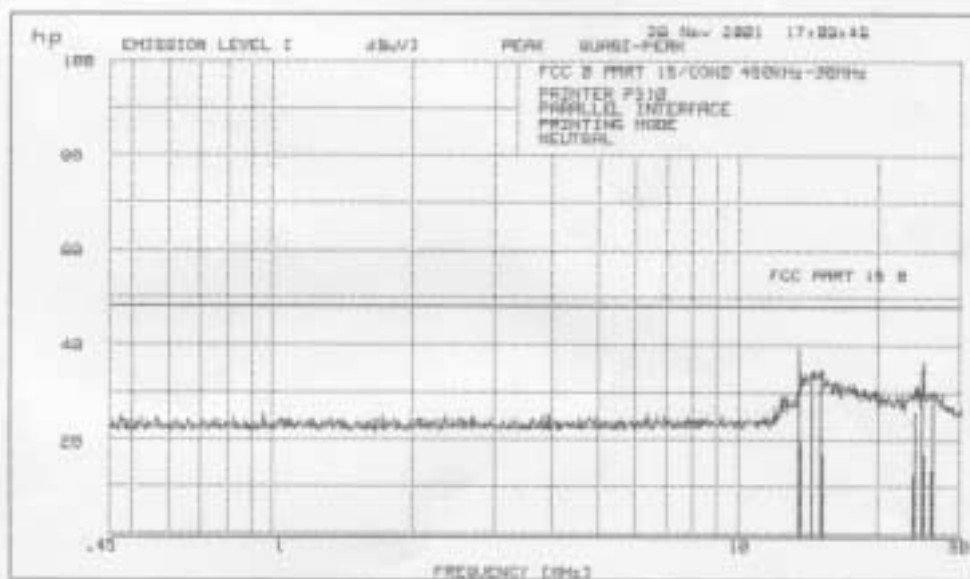
## 1. SETUP

1.2 FCC B PART 15/COND 450KHz-30MHz

PRINTER P310  
PARALLEL INTERFACE  
PRINTING MODE  
NEUTRAL

Quasi-Peaks above -25 dB of Limit Line #1  
peak criteria = 6 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	13.52	39	-9.8
2	14.4	33.9	-14.1
3	15.08	33.9	-14.1
4	23.92	25.5	-22.5
5	24.94	34.5	-13.5
6	25.23	27.8	-20.2





# FCC CERTIFICATION TEST REPORT

EQUIPMENT FCC ID : MX5402920001

P310  
Annex :1-5

Written by : D. RAUD

January 18, 2002

Test report # : 019054DR

PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15/2000 CLASS B  
MEASUREMENT : AC POWER LINE CONDUCTED  
CONDITIONS : 120V/60Hz  
MEASUREMENTS DONE BY : D.RAUD

EQUIPMENT FCC ID :  
MX5402920001

28 Nov 2001 17:36:51

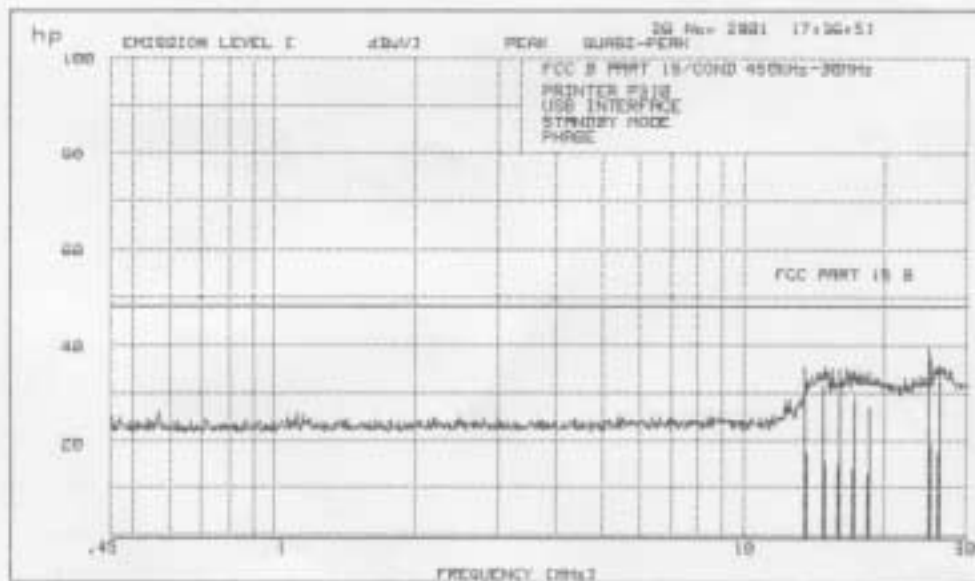
## 1. SETUP

1.2 FCC B PART 15/COND 450kHz-30MHz

PRINTER P310  
USB INTERFACE  
STANDBY MODE  
PHASE

Quasi-Peaks above -25 dB of Limit Line #1  
peak criteria = 6 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	13.52	35.2	-12.8
2	14.83	31.5	-16.5
3	15.89	30.4	-17.6
4	17.24	28.7	-19.3
5	18.52	26.6	-21.4
6	24.94	39.1	-8.9
7	26.23	34.8	-13.2





# FCC CERTIFICATION TEST REPORT

EQUIPMENT FCC ID : MX5402920001

P310  
Annex :1-6

Written by : D. RAUD

January 18, 2002

Test report # : 019054DR

PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15/2000 CLASS B  
MEASUREMENT : AC POWER LINE CONDUCTED  
CONDITIONS : 120V/60Hz  
MEASUREMENTS DONE BY : D.RAUD

26 Nov 2001 17:51:25

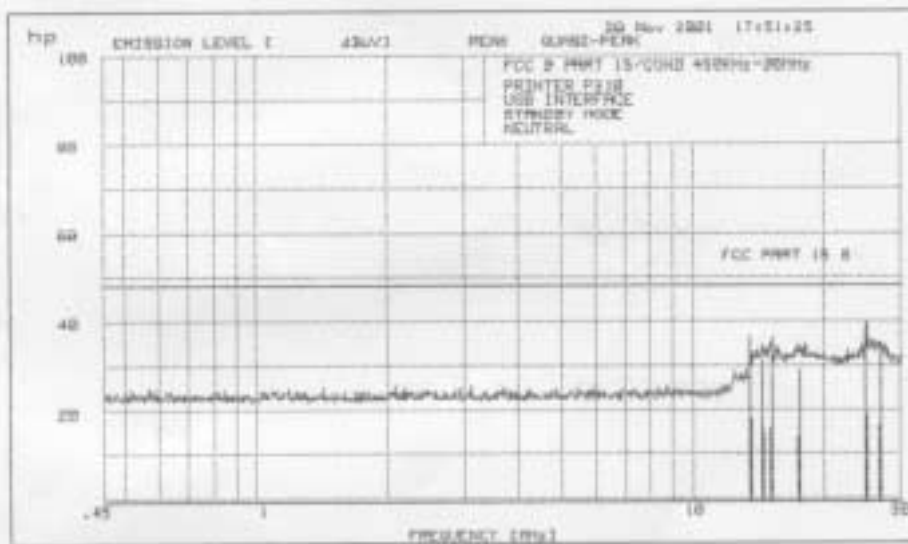
1. SETUP  
1.2 FCC B PART 15/COND 450KHz-30MHz

EQUIPMENT FCC ID :  
MX5402920001

PRINTER P310  
USB INTERFACE  
STANDBY MODE  
NEUTRAL

Quasi-Peaks above -25 dB of Limit Line #1  
peak criteria = 5 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	13.52	36.3	-11.7
2	14.46	31.1	-16.9
3	15.14	32.3	-15.7
4	17.53	28.7	-19.3
5	24.94	38.8	-9.2
6	26.9	33.6	-14.4







# FCC CERTIFICATION TEST REPORT

EQUIPMENT FCC ID : MX5402920001

P310  
Annex :1-7

Written by : D. RAUD

January 18, 2002

Test report # : 019054DR

PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15/2000 CLASS B  
MEASUREMENT : AC POWER LINE CONDUCTED  
CONDITIONS : 120V/60Hz  
MEASUREMENTS DONE BY : D.RAUD

28 Nov 2001 18:33:19

EQUIPMENT FCC ID :  
MX5402920001

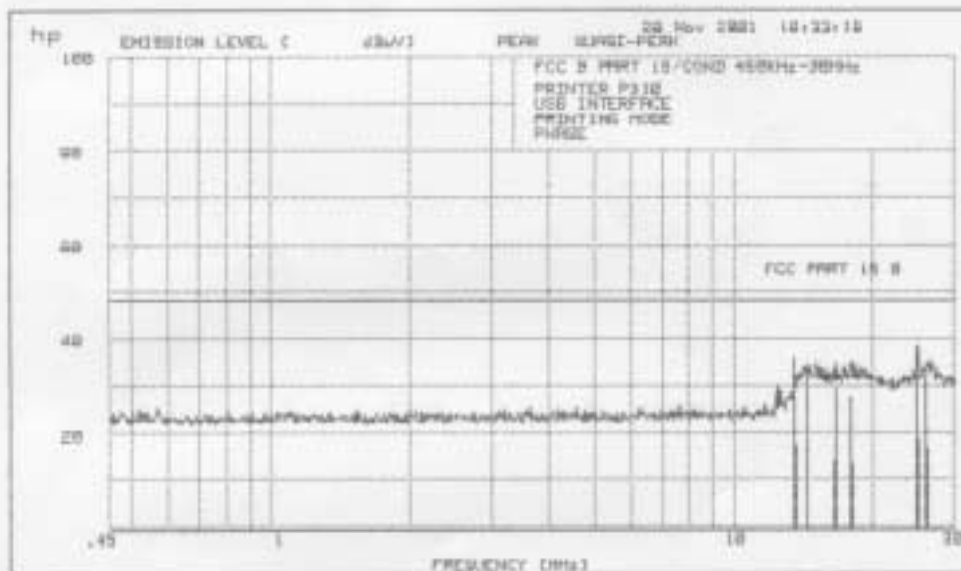
## 1. SETUP

1.2 FCC B PART 15/COND 450KHz-30MHz

PRINTER P310  
USB INTERFACE  
PRINTING MODE  
PHASE

Quasi-Peaks above -25 dB of Limit Line #1  
peak criteria = 6 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	13.62	35	-13.0
2	14.4	32.8	-15.2
3	16.6	28.9	-19.1
4	17.98	27.5	-20.5
5	24.94	39.5	-9.5
6	26.12	33.8	-14.2







# FCC CERTIFICATION TEST REPORT

EQUIPMENT FCC ID : MX5402920001

P310  
Annex :1-8

Written by : D. RAUD

January 18, 2002

Test report # : 019054DR

PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15/2000 CLASS B  
MEASUREMENT : AC POWER LINE CONDUCTED  
CONDITIONS : 120V/60Hz  
MEASUREMENTS DONE BY : D.RAUD

28 Nov 2001 18:39:58

EQUIPMENT FCC ID :  
MX5402920001

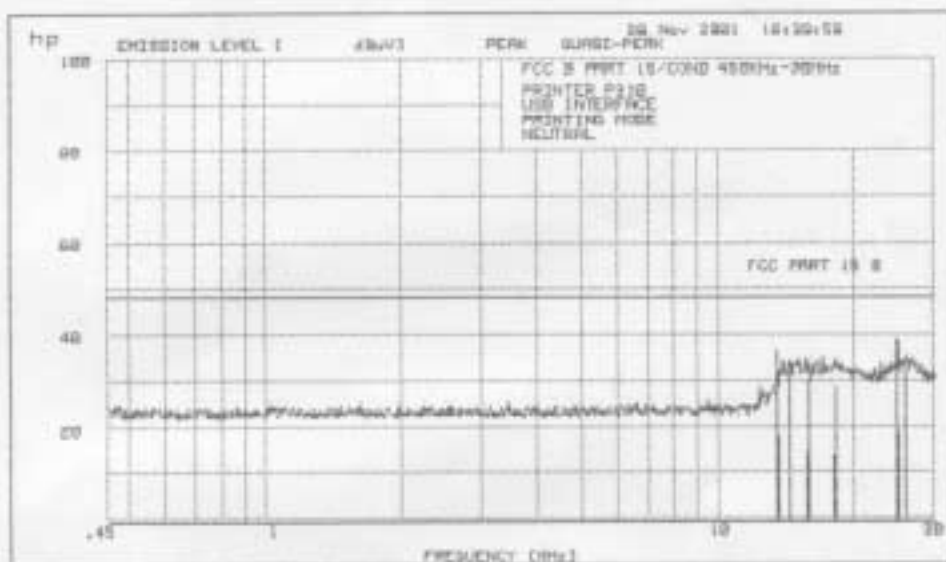
## 1. SETUP

1.2 FCC B PART 15/COND 450KHz-30MHz

PRINTER P310  
USB INTERFACE  
PRINTING MODE  
NEUTRAL

Quasi-Peaks above -25 dB of Limit Line #1  
peak criteria = 6 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	13.52	36.4	-11.6
2	14.4	33	-15.0
3	15.85	30	-18.0
4	18.21	28.1	-19.9
5	24.94	38.6	-9.4
6	26.01	32	-16.0





# FCC CERTIFICATION TEST REPORT

Annex :2-1

EQUIPMENT FCC ID : MX5402920001

Written by : D.RAUD

January 18, 2002

Test report # : 019054DR

PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15 2000 CLASS B  
MEASUREMENT : ELECTRIC FIELD 30-1000 MHz D=3m  
CONDITIONS : 120V/60Hz STANDBY MODE  
DATE : Nov. 29 of 2001  
MEASUREMENT DONE BY : D.RAUD

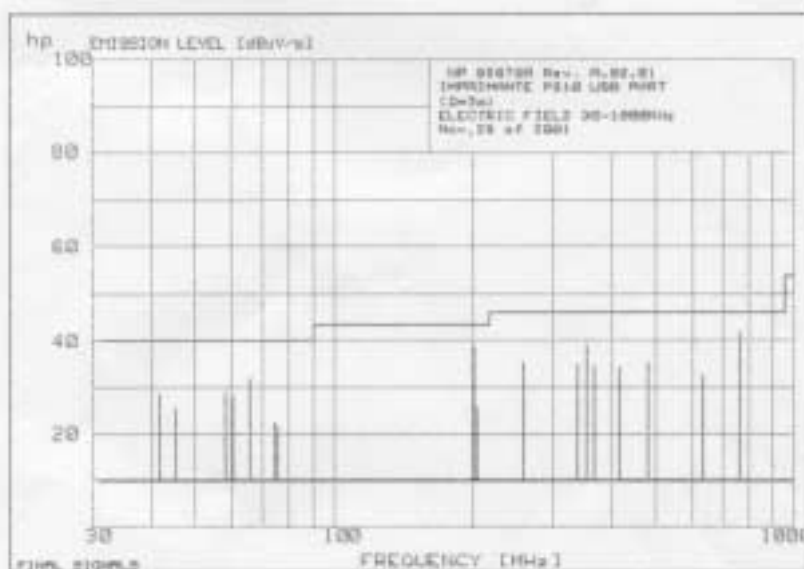
EQUIPMENT FCC ID :  
MX5402920001

## PRODUCT EMISSIONS

HP 05879A Rev. A.02.01

Data File: E FIELD D=3m USB STANDBY

No	EMISSION	SPEC	MEASUREMENTS			POL	SITE		CORR	COMMENTS
	FREQUENCY MHz		ABS	dLIM	MODE		HGT	AZM		
			dBuV/m	dB			m	deg	dB	
1	40.688	40.0	26.8	-11.2	QP	V	180	190	15.	
2	44.230	40.0	25.5	-14.5	PK	V	110	80	13.8	
3	56.477	40.0	26.9	-11.1	PK	V	130	0	9.7	
4	58.973	40.0	28.1	-11.9	PK	V	130	140	9.	
5	63.980	40.0	32.1	-7.9	QP	V	160	0	8.8	
6	72.590	40.0	22.6	-17.4	PK	V	160	265	8.8	
7	73.784	40.0	21.4	-18.6	PK	V	120	285	8.9	
8	200.457	43.5	36.4	-6.1	QP	H	160	95	13.7	
9	203.400	43.5	25.6	-17.9	PK	H	170	225	13.8	
10	255.988	46.0	35.2	-10.8	PK	H	160	320	16.1	
11	335.20	46.0	35.0	-11.0	PK	H	140	305	18.3	
12	352.007	46.0	39.9	-7.1	QP	V	130	180	18.9	
13	367.30	46.0	34.4	-11.6	PK	V	160	175	19.4	
14	415.990	46.0	34.3	-11.7	PK	V	170	15	20.9	
15	480.013	46.0	35.1	-10.9	QP	V	190	225	22.2	
16	637.270	46.0	32.6	-13.4	PK	V	160	325	23.4	
17	758.004	46.0	41.7	-4.3	QP	H	240	265	25.6	





# FCC CERTIFICATION TEST REPORT

Annex :2-2

EQUIPMENT FCC ID : MX5402920001

Written by : D.RAUD

January 18, 2002

Test report # : 019054DR

PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15 2000 CLASS B  
MEASUREMENT : ELECTRIC FIELD 30-1000 MHz D=3m  
CONDITIONS : 120V/60Hz : USB Interface: PRINTING MODE  
DATE : Nov. 29 of 2001  
MEASUREMENT DONE BY : D.RAUD

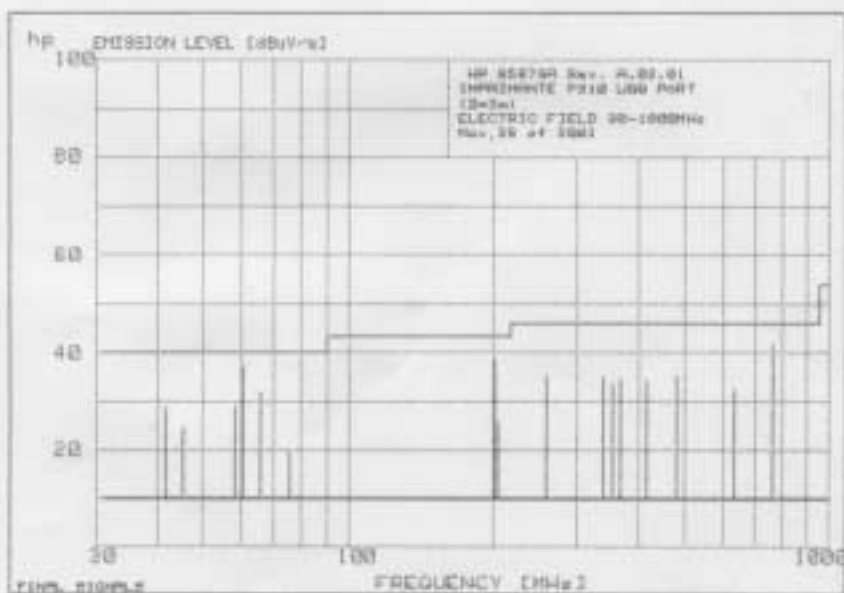
EQUIPMENT FCC ID :  
MX5402920001

## PRODUCT EMISSIONS

HP 85879A Rev. A.02.01

Data File: E FIELD D=3m USB PRINTING

No	EMISSION	SPEC	MEASUREMENTS		MODE	POL	SITE		CORR	COMMENTS
	FREQUENCY MHz		ABS	dLIM			HGT	AZM		
			dBuV/m	dB			cm	deg	dB	
1	40.680	40.0	28.8	-11.2	QP	V	140	195	15.	
2	44.230	40.0	24.6	-15.4	PK	V	140	195	13.8	
3	56.477	40.0	28.9	-11.1	PK	V	130	0	9.7	
4	58.973	40.0	37.2	-2.8	QP	V	140	160	9.	
5	64.000	40.0	32.1	-7.9	QP	V	140	195	9.6	
6	73.699	40.0	19.6	-20.4	QP	V	180	65	8.9	
7	200.453	43.5	38.4	-5.1	QP	V	140	195	13.7	
8	203.400	43.5	25.6	-17.9	PK	H	170	225	13.8	
9	255.988	46.0	35.2	-10.8	PK	H	150	320	16.1	
10	335.20	46.0	35.0	-11.0	PK	H	140	305	18.3	
11	352.015	46.0	33.6	-12.4	QP	V	170	255	18.9	
12	367.30	46.0	34.4	-11.6	PK	V	160	175	19.4	
13	415.990	46.0	34.3	-11.7	PK	V	170	15	20.9	
14	480.013	46.0	35.1	-10.9	QP	V	180	225	22.2	
15	637.279	46.0	32.6	-13.4	PK	V	160	325	23.4	
16	767.995	46.0	41.7	-4.3	QP	V	170	345	25.9	





# FCC CERTIFICATION TEST REPORT

Annex :2-3

EQUIPMENT FCC ID : MX5402920001

Written by : D.RAUD

January 18, 2002

Test report # : 019054DR

PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15 2000 CLASS B  
MEASUREMENT : ELECTRIC FIELD 30-1000 MHz D=3m  
CONDITIONS : 120V/60Hz : Parallel interface: STANDBY MODE  
DATE : Nov. 30 of 2001  
MEASUREMENT DONE BY : D.RAUD

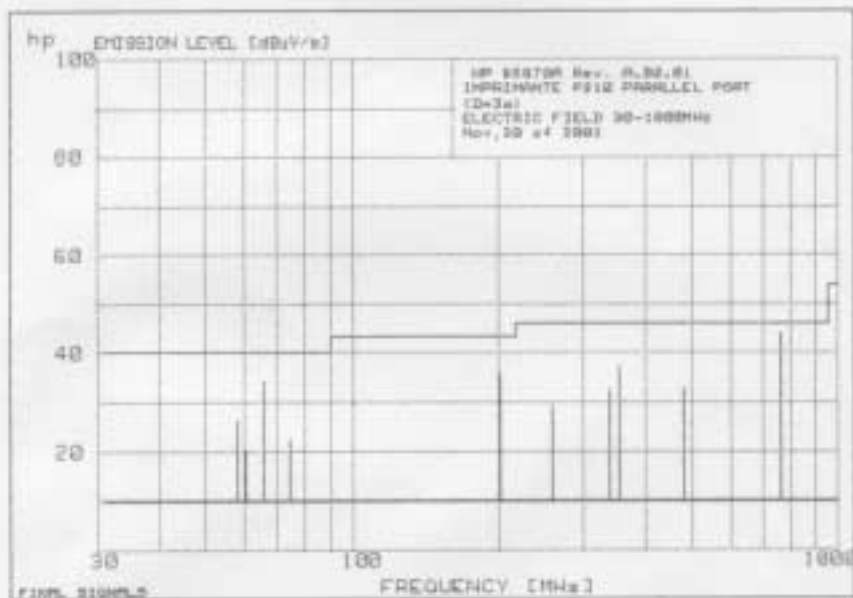
## PRODUCT EMISSIONS

EQUIPMENT FCC ID :  
MX5402920001

HP 95B79A Rev. A.02.01

Data File: E FIELD D=3m // STANDBY 30 Nov 01

No	EMISSION FREQUENCY MHz	SPEC LIMIT dBuV/m	MEASUREMENTS			SITE		CORR FACTOR dB	COMMENTS
			ABS	dLIM	MODE	POL	HGT AZH cm deg		
1	56.572	40.0	25.9	-14.1	PK	V	190 0	9.6	
2	58.988	40.0	20.2	-19.8	PK	V	170 200	9.	
3	63.988	40.0	34.1	-5.9	QP	V	170 360	8.6	
4	72.698	40.0	22.6	-17.4	PK	V	160 265	8.8	
5	200.455	43.5	35.6	-7.9	QP	H	150 55	13.7	
6	255.988	40.0	29.2	-10.8	PK	H	150 350	16.1	
7	335.20	46.0	32.4	-13.6	PK	H	140 345	10.3	
8	352.014	46.0	37.3	-8.7	QP	H	130 295	16.8	
9	478.972	46.0	32.5	-13.5	QP	V	190 230	22.2	
10	767.983	46.0	44.1	-1.9	QP	V	170 335	25.8	





# FCC CERTIFICATION TEST REPORT

Annex :2-4

EQUIPMENT FCC ID : MX5402920001

Written by : D.RAUD

January 18, 2002

Test report # : 019054DR

PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15 2000 CLASS B  
MEASUREMENT : ELECTRIC FIELD 30-1800 MHz D=3m  
CONDITIONS : 120V/60Hz : Parallel interface: PRINTING MODE  
DATE : Nov. 30 of 2001  
MEASUREMENT DONE BY : D.RAUD

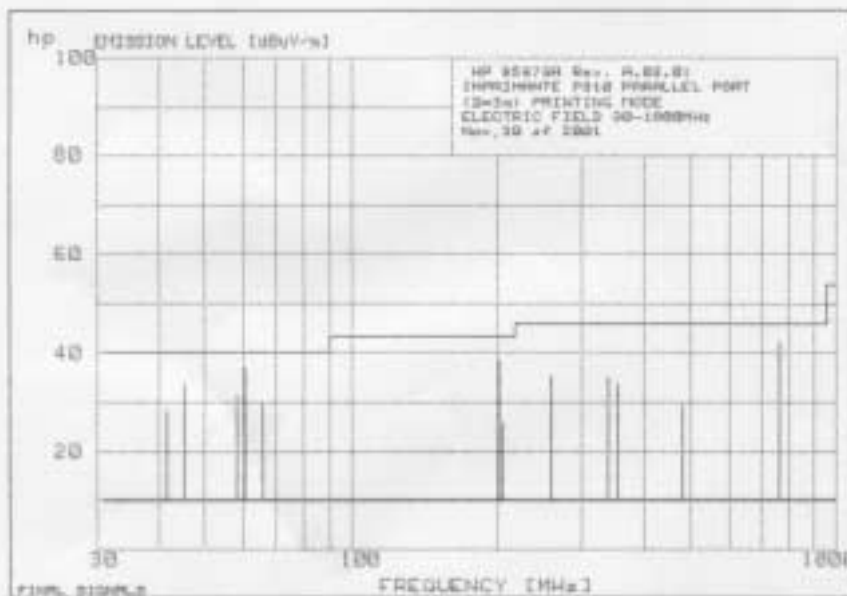
EQUIPMENT FCC ID :  
MX5402920001

## PRODUCT EMISSIONS

HP 85879A Rev. A.02.01

Data File: E FIELD D=3m // PRINTING 30 Nov

EMISSION No	FREQUENCY MHz	SPEC LIMIT dBuV/m	MEASUREMENTS		MODE	SITE		CORR FACTOR dB	COMMENTS
			ABS	dLIM		POL	HGT AZM		
			dBuV/m	dB			cm deg		
1	40.690	40.0	28.4	-11.6	QP	V	100 225	15.	
2	44.260	40.0	33.4	-6.6	QP	V	100 225	13.8	
3	56.710	40.0	31.4	-8.6	PK	V	100 205	9.6	
4	58.973	40.0	37.0	-3.0	QP	V	130 145	9.	
5	63.998	40.0	29.5	-10.5	QP	V	140 165	8.6	
6	200.453	43.5	38.4	-5.1	QP	V	140 195	13.7	
7	203.400	43.5	25.6	-17.9	PK	H	170 225	13.8	
8	255.908	46.0	35.2	-10.8	PK	H	160 320	16.1	
9	335.20	46.0	35.0	-11.0	PK	H	140 305	10.3	
10	352.015	46.0	33.6	-12.4	QP	V	170 265	10.9	
11	479.940	46.0	29.2	-16.8	QP	V	190 225	23.2	
12	769.002	46.0	42.2	-3.8	QP	V	170 335	25.8	





# FCC CERTIFICATION TEST REPORT

Annex :2-5

EQUIPMENT FCC ID : MX5402920001

Written by : D.RAUD

January 18, 2002

Test report # : 019054DR

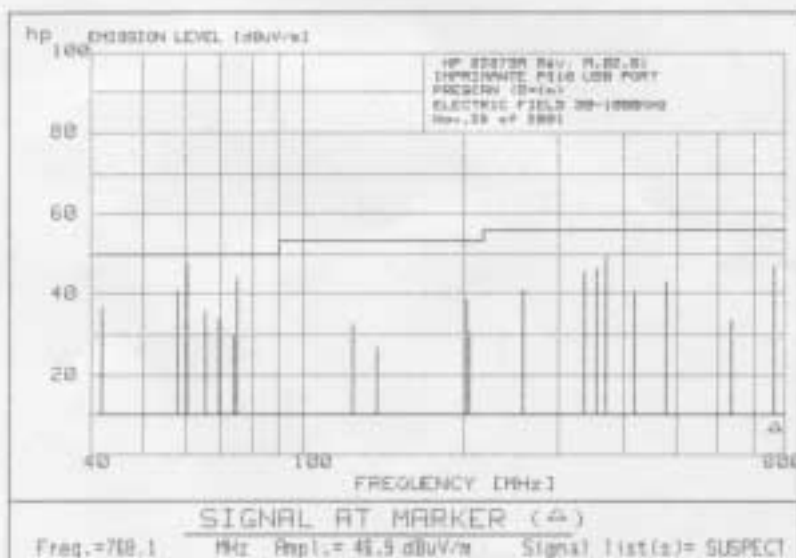
PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15 2000 CLASS B  
MEASUREMENT : ELECTRIC FIELD 30-1000 MHz  
CONDITIONS : 120V/60Hz ; USB interface ; PRINTING MODE (WORDS CASE)  
DATE : Nov. 29 of 2001  
MEASUREMENT DONE BY : D.RAUD  
ALL SUSPECTS

EQUIPMENT FCC ID :  
MX5402920001

No	FREQ MHz	BND	PEAK LIN	ANT ABS	AI F on deg	COMMENTS
1	40.64	2	-13	37.0	V100 270	
2	55.708	4	-8	40.8	V100 270	
3	59.939	4	-2	47.9	V100 270	
4	64.80	5	-14	35.9	V100 270	
5	67.80	5	-16	34.1	V100 270	
6	72.59	5	-20	30.2	H100 1	
7	73.69	5	-6	44.3	V100 270	
8	122.03	12	-21	32.9	V100 1	
9	135.989	13	-27	25.9	V100 1	
10	200.56	19	-15	30.6	H100 270	
11	203.40	19	-23	30.9	V100 270	
12	255.92	21	-15	40.9	H100 1	
13	335.2	22	-11	45.3	H100 1	
14	352.0	22	-10	45.4	V100 270	
15	367.3	22	-7	49.4	V100 270	
16	415.99	23	-15	41.0	V100 270	
17	478.8	26	-13	43.1	V100 270	
18	637.3	27	-22	33.7	V100 270	
19	759.1	28	-9	46.9	V100 270	

PRESCAN  
FOR INFORMATION ONLY

\* denotes a Final List signal







# FCC CERTIFICATION TEST REPORT

Annex :2-6

EQUIPMENT FCC ID : MX5402920001

Written by : D.RAUD

January 18, 2002

Test report # : 019054DR

PRODUCT NAME : PRINTER P310  
STANDARD : FCC CFR 47 PART 15 2000 CLASS B  
MEASUREMENT : ELECTRIC FIELD 30-1000 MHz PRESCAN D=1m  
CONDITIONS : 120V/60Hz ; PARALLEL interface; PRINTING MODE (WORDS CASE)  
DATE : Nov. 29 of 2001  
MEASUREMENT DONE BY : D.RAUD  
ALL SUSPECTS

EQUIPMENT FCC ID :  
MX5402920001

No	FREQ MHz	BND	PEAK LIM	ANT ASS P	AZ cm deg	COMMENTS
1	48.58	2	-14	35.4	V100 270	
2	58.401	4	0	58.2	V100 1	
3	58.947	4	5	54.6	V100 1	
4	64.80	5	-11	38.9	V100 1	
5	87.77	5	-22	28.1	V100 270	
6	200.58	18	-15	38.3	H100 270	
7	283.37	18	-22	31.2	V100 1	
8	255.82	21	-17	39.4	H100 1	
9	335.2	22	-15	41.4	H100 270	
10	352.0	22	-9	46.6	V100 1	
11	479.8	26	-15	41.2	V100 1	
12	768.1	28	-11	44.7	V100 1	

PRESCAN  
FOR INFORMATION ONLY

\* denotes a Final List signal

