

Prüfbericht-Nr.: Test Report No.:	17041964 001		Auftrags-Nr.: Order No.:	164016483	Seite 1 von 3 Page 1 of 3
Kunden-Referenz-Nr.: Client Reference No.:	N/A		Auftragsdatum Order date:	02.07.2014	
Auftraggeber: Client:				Ltd., No. 399, Jin X 29040, P.R. China	King Road, Jiang Ha
Prüfgegenstand: Test item:	Dot Matrix Prin	ter			
Bezeichnung / Typ-Nr.: Identification / Type No.:	1325+, 1330, 1 (Tally/DASCO				
Auftrags-Inhalt: Order content:	FCC Certificati	on			14
Prüfgrundlage:	FCC CFR47 P	art 15: Subpart I	3 Section 15.107	,	
Test specification:	FCC CFR47 P	art 15: Subpart I	3 Section 15.109	)	
Wareneingangsdatum: Date of receipt:	17.06.2014	<del></del>			
Prüfmuster-Nr.: Test sample No.:	KAD14061003	1S01			
Prüfzeitraum: Testing period:	20.06.2014 - 0	7.07.2014			
Ort der Prüfung: Place of testing:	Dongguan EM Shenzhen EM				
Prüflaboratorium: Testing laboratory:	TÜV Rheinland	(Shenzhen) Co	o., Ltd.		
Prüfergebnis*: Test result*:	Pass				
	N Non Project Manager			wen Tian/Technical	
Datum Name / Stellus Date Name / Position	-	nterschrift ignature		ame / Stellung ame / Position	Unterschrift Signature
Sonstiges / Other.	FCC ID: Z7OTI	D13300			
		lieferung:		ständig und unbeso lete and undamage	
Zustand des Prüfgegens Condition of the test item	at delivery.				
	2 = gut	3 = befriedigend F(ail) = entspricht nich	t o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar	5 = mangelhaft N/T = nicht getestet

duplicated in extracts. This test report does not entitle to carry any test mark.



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# **TEST SUMMARY**

5.1.1 CONDUCTED EMISSION

RESULT: Pass

5.2.1 RADIATED EMISSIONS

RESULT: Pass



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## 1. General Remarks

# 1.1 Complementary Materials

None.

## 2. Test Sites

### 2.1 Test Facilities

Dongguan EMTEK Co., Ltd.

(FCC Registration No.: 247565)

No. 281, Guantai Road, Nancheng District, Dongguan, Guangdong, 523077, P.R. China

Shenzhen EMTEK Co., Ltd.

(FCC Registration No.: 709623)

Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, P.R. China

The tests at the test sites have been conducted under the supervision of a TÜV engineer.



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## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment** 

Kind of Equipment	Manufacturer	Туре	S/N	Calibrated until
<b>Conducted Emission</b>	(Dongguan EMTEK)	·		
Test Receiver	Rohde&Schwarz	ESCS30	100018	2015-05-16
L.I.S.N.	Rohde&Schwarz	ENV216	100017	2015-05-16
RF Switching Unit	CDS	RSU-M2	38401	2015-05-16
Radiated Emission (3	0MHz - 1GHz) (Dongg	juan EMTEK)		
Test Receiver	Rohde & Schwarz	ESCI	1166.5950.03	2015-05-16
Bilog Antenna	Schwarzbeck	VULB9163	000141	2015-05-16
Power Amplifier	CDS	RSU-M352	818	2015-05-16
Power Amplifier	HP	8447F	OPT H64	2015-05-16
Color Monitor	SUNSPO	SP-140A	N/A	2015-05-16
Single Line Filter	JIANLI	XL-3	N/A	2015-05-16
Single Phase Power Line Filter	JIANLI	DL-2X100B	N/A	2015-05-16
3 Phase Power Line Filter	JIANLI	DL-4X100B	N/A	2015-05-16
DC Power Filter	JIANLI	DL-2X50B	N/A	2015-05-16
Cable	Schwarzbeck	PLF-100	549489	2015-05-16
Cable	Rosenberger	CIL02	A0783566	2015-05-16
Cable	Rosenberger	RG 233/U	525178	2015-05-16
Radiated Emission (1	- 2GHz) (Shenzhen E	MTEK)		
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.2 6	2015-05-17
Pre-Amplifier	HP	8447D	2944A07999	2015-05-17
Bilog Antenna	Schwarzbeck	VULB9163	142	2015-05-11
Loop Antenna	Schwarzbeck	FMZB 1519	012	2015-05-11
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91703 99	2015-05-11
Horn Antenna	Schwarzbeck	BBHA 9120	D143	2015-05-11
Cable	Schwarzbeck	AK9513	ACRX1	2015-05-17
Cable	Rosenberger	N/A	FP2RX2	2015-05-17
Cable	Schwarzbeck	AK9513	CRPX1	2015-05-17
Cable	Schwarzbeck	AK9513	CRRX2	2015-05-17
Pre-Amplifier	A.H.	PAM-0126	1415261	2015-05-17

# 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.



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#### 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

# 2.5 Measurement Uncertainty

**Table 2: Measurement Uncertainty** 

Parameter	Uncertainty
Conducted Emission	< ± 2.40 dB
Radiated Emission (30 – 1000MHz)	< ± 3.43 dB
Radiated Emission (1 – 2GHz)	< ± 4.46 dB

# 2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

# 2.7 Status of Facility Used for Testing

Dongguan EMTEK Co., Ltd. test facility located at No. 281, Guantai Road, Nancheng District, Dongguan, Guangdong, 523077, P.R. China & Shenzhen EMTEK Co., Ltd. test facility located at Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, P.R. China are listed on the US Federal Communications Commission list of facilities approved to perform measurements.



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## 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUTs are Matrix Printer. These models are identical except the model name. For more information refer to the manufacturer's Circuit diagram & Instruction Manual.

# 3.2 Ratings and System Details

Rated voltage: AC 100-120V, 50/60Hz

Input current: 1.5A Protection class: I

# 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, printing
  - 1. Ethernet port input
  - 2. USB port input
  - 3. Serial port input
  - 4. Parallel port input
- B. Stand by
- C. Off

# 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

### 3.5 Submitted Documents

- Bill of Material- PCB Layout- Circuit Diagram- Instruction Manual

- Photo Document - Rating Label



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# 4. Test Set-up and Operation Modes

# 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

# 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

According to clause 3.1, all tests were applied on model 1330 only.

# 4.3 Special Accessories and Auxiliary Equipment

The EUTs were tested with following cables:

The Lette Were tested with renewing edition									
Interface(s)/Port(s):	Max. cable length, shielding	Cable classification							
AC Input port	3 cores, 3m, non-shielded port	AC Input Power Port							
RJ45 Ethernet port	8 cores, 3m, non-shielded port	Signal Port							
USB port	4 cores, 3m, non-shielded port	Signal Port							
Parallel port	25 cores, 3m, non-shielded port	Signal Port							
Serial port	9 cores, 3m, non-shielded port	Signal Port							

#### The EUTs were tested with following accessories:

Accessory	Manufacturer	M/N	Serial No.
Dongguan EMTEK			
PC	DELL	OPTIRLEX 760	N/A
LCD Monitor	DELL	E1909WF	N/A
Mouse	DELL	M-UAR DEL7	XN966
Keyboard	DELL	L30U	ON277F
Printer	HEWLETT PACKARD	Q5911A	CNCK512065
Shenzhen EMTEK			
PC	HP	Vectra VL420 MT	CN15100363
LCD Monitor	SONY	SDM-S53/B T8UC7	P-17465811-F
Mouse	Lenovo	MO28UOL	44D2639
Keyboard	Lenovo	KB-0225	41A5039
Printer	HP	C89520	CN25S182N6



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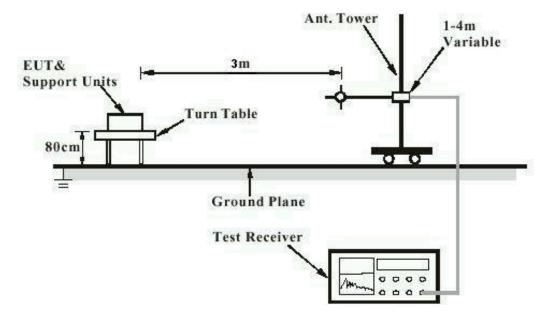
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# 4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

# 4.5 Test Setup Diagram

**Diagram of Measurement Configuration for Radiation Test** 



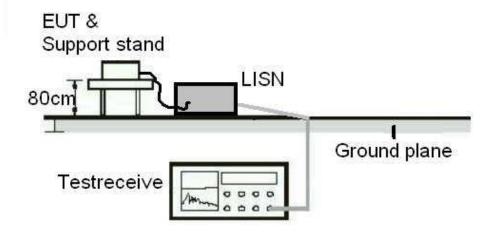


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### **Diagram of Measurement Equipment Configuration for Conduction Measurement**



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## 5. Test Results EMISSION

# 5.1 Emission in the Frequency Range up to 30 MHz

#### **5.1.1 Conducted Emission**

**RESULT: Pass** 

Date of testing : 2014-07-07

Test standard : FCC Part15 Subpart B Section 15.107(a)

Basic standard : ANSI C63.4: 2003

Frequency range : 0.15 – 30MHz

Limits : FCC Part15 Subpart B Section 15.107(a)

Kind of test site : Shield room

Test setup

Input voltage : Operation mode : Earthing : AC 120V, 60Hz

Not connected

Ambient temperature : 24°C Relative humidity : 55% Atmospheric pressure : 101kPa

For details refer to following test plot.



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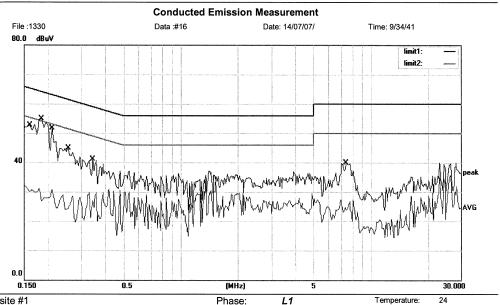
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Dongguan EMTEK Co., Ltd. No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079





Site site #1

Limit: (CE)FCC PART 15 class B\_QP

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: Ethernet interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1600	49.70	0.00	49.70	65.46	-15.76	QP	
2		0.1600	30.75	0.00	30.75	55.46	-24.71	AVG	
3	*	0.1850	51.90	0.00	51.90	64.26	-12.36	QP	
4		0.1850	27.91	0.00	27.91	54.26	-26.35	AVG	
5		0.2100	48.70	0.00	48.70	63.21	-14.51	QP	
6		0.2100	30.77	0.00	30.77	53.21	-22.44	AVG	
7		0.2550	41.80	0.00	41.80	61.59	-19.79	QP	
8		0.2550	25.40	0.00	25.40	51.59	-26.19	AVG	
9		0.3450	38.30	0.00	38.30	59.08	-20.78	QP	
10		0.3450	26.90	0.00	26.90	49.08	-22.18	AVG	
11		7.3900	36.90	0.00	36.90	60.00	-23.10	QP	
12		7.3900	24.66	0.00	24.66	50.00	-25.34	AVG	

Power:

AC 120V/60Hz

Humidity:

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

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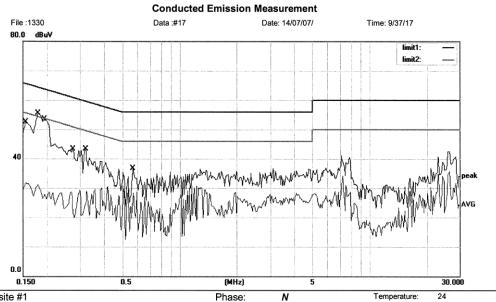
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Site site #1

Limit: (CE)FCC PART 15 class B\_QP

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: Ethernet interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1550	49.30	0.00	49.30	65.73	-16.43	QP	
2		0.1550	31.70	0.00	31.70	55.73	-24.03	AVG	
3	*	0.1800	52.50	0.00	52.50	64.49	-11.99	QP	
4		0.1800	31.03	0.00	31.03	54.49	-23.46	AVG	
5		0.1965	50.20	0.00	50.20	63.76	-13.56	QP	
6		0.1965	28.63	0.00	28.63	53.76	-25.13	AVG	
7		0.2750	40.30	0.00	40.30	60.97	-20.67	QP	
8		0.2750	22.52	0.00	22.52	50.97	-28.45	AVG	
9		0.3200	40.20	0.00	40.20	59.71	-19.51	QP	
10		0.3200	28.88	0.00	28.88	49.71	-20.83	AVG	
11		0.5700	33.60	0.00	33.60	56.00	-22.40	QP	
12		0.5700	28.39	0.00	28.39	46.00	-17.61	AVG	

Power:

AC 120V/60Hz

Humidity:

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

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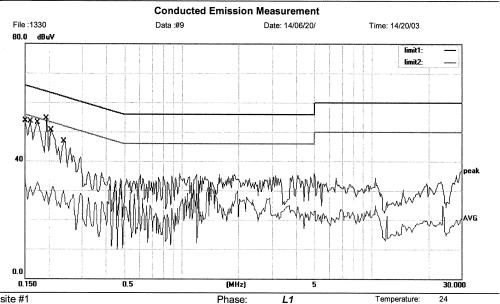
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Site site #1

Limit: (CE)FCC PART 15 class B\_QP

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: USB interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	53.76	0.00	53.76	66.00	-12.24	QP	
2		0.1500	33.85	0.00	33.85	56.00	-22.15	AVG	
3		0.1600	53.42	0.00	53.42	65.46	-12.04	QP	
4		0.1600	31.56	0.00	31.56	55.46	-23.90	AVG	
5		0.1750	53.05	0.00	53.05	64.72	-11.67	QP	
6		0.1750	32.98	0.00	32.98	54.72	-21.74	AVG	
7	*	0.1950	54.46	0.00	54.46	63.82	-9.36	QP	
8		0.1950	29.70	0.00	29.70	53.82	-24.12	AVG	
9		0.2071	49.82	0.00	49.82	63.32	-13.50	QP	
10		0.2071	31.29	0.00	31.29	53.32	-22.03	AVG	
11		0.2400	46.77	0.00	46.77	62.10	-15.33	QP	
12		0.2400	29.98	0.00	29.98	52.10	-22.12	AVG	

Power:

AC 120V/60Hz

Humidity:

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

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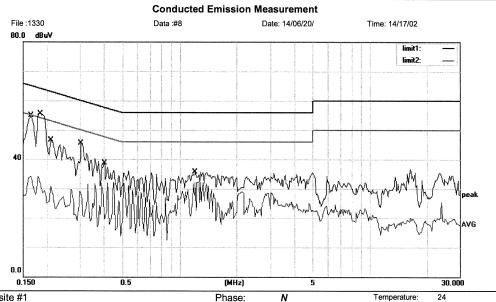
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Site site #1

Limit: (CE)FCC PART 15 class B\_QP

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: USB interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1650	52.84	0.00	52.84	65.21	-12.37	QP	
2		0.1650	34.08	0.00	34.08	55.21	-21.13	AVG	
3	*	0.1864	53.47	0.00	53.47	64.20	-10.73	QP	
4		0.1864	34.17	0.00	34.17	54.20	-20.03	AVG	
5		0.2100	46.48	0.00	46.48	63.21	-16.73	QP	
6		0.2100	30.68	0.00	30.68	53.21	-22.53	AVG	
7		0.3050	45.55	0.00	45.55	60.11	-14.56	QP	
8		0.3050	29.03	0.00	29.03	50.11	-21.08	AVG	
9		0.4050	38.66	0.00	38.66	57.75	-19.09	QP	
10		0.4050	31.99	0.00	31.99	47.75	-15.76	AVG	
11		1.2050	35.70	0.00	35.70	56.00	-20.30	QP	
12		1.2050	32.25	0.00	32.25	46.00	-13.75	AVG	

Power:

AC 120V/60Hz

Humidity:

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

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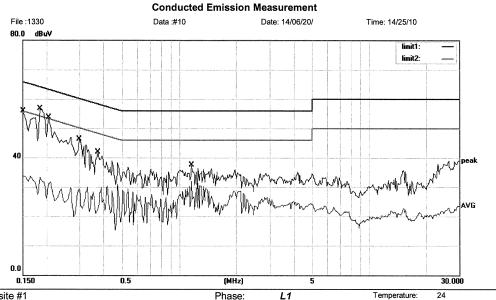
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Site site #1

Limit: (CE)FCC PART 15 class B\_QP

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: Serial interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	55.88	0.00	55.88	66.00	-10.12	QP	
2		0.1500	33.79	0.00	33.79	56.00	-22.21	AVG	
3	*	0.1850	56.61	0.00	56.61	64.26	-7.65	QP	
4		0.1850	33.22	0.00	33.22	54.26	-21.04	AVG	
5		0.2050	53.63	0.00	53.63	63.41	-9.78	QP	
6		0.2050	31.71	0.00	31.71	53.41	-21.70	AVG	
7		0.3000	46.40	0.00	46.40	60.24	-13.84	QP	
8		0.3000	29.26	0.00	29.26	50.24	-20.98	AVG	
9		0.3770	41.00	0.00	41.00	58.35	-17.35	QP	
10		0.3770	29.94	0.00	29.94	48.35	-18.41	AVG	
11		1.1650	37.46	0.00	37.46	56.00	-18.54	QP	
12		1.1650	31.83	0.00	31.83	46.00	-14.17	AVG	

Power:

AC 120V/60Hz

Humidity:

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

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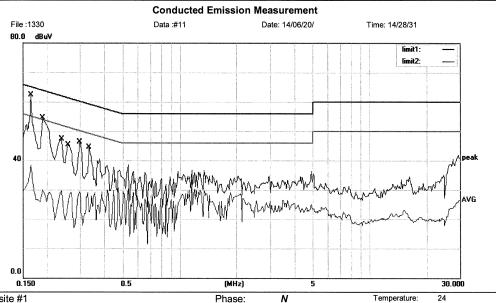
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Site site #1

Limit: (CE)FCC PART 15 class B\_QP

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: Serial interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1650	58.37	0.00	58.37	65.21	-6.84	QP	
2		0.1650	35.33	0.00	35.33	55.21	-19.88	AVG	
3		0.1900	54.46	0.00	54.46	64.04	-9.58	QP	
4		0.1900	29.92	0.00	29.92	54.04	-24.12	AVG	
5		0.2400	47.27	0.00	47.27	62.10	-14.83	QP	
6		0.2400	29.72	0.00	29.72	52.10	-22.38	AVG	
7		0.2600	45.34	0.00	45.34	61.43	-16.09	QP	
8		0.2600	29.13	0.00	29.13	51.43	-22.30	AVG	
9		0.3000	46.29	0.00	46.29	60.24	-13.95	QP	
10		0.3000	29.28	0.00	29.28	50.24	-20.96	AVG	
11		0.3350	44.59	0.00	44.59	59.33	-14.74	QP	
12		0.3350	29.03	0.00	29.03	49.33	-20.30	AVG	

Power:

AC 120V/60Hz

Humidity:

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

File :1330\Data :#11 Page: 1



Prüfbericht - Nr.:

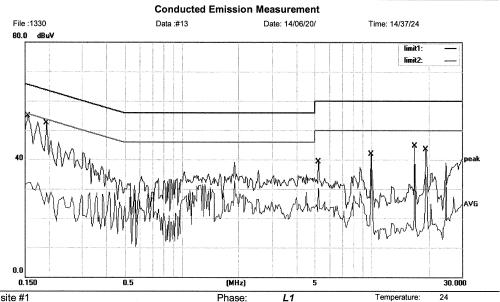
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Test Report No.

Dongguan EMTEK Co., Ltd. No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079





Site site #1

Limit: (CE)FCC PART 15 class B\_QP

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: Parallel interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1550	54.93	0.00	54.93	65.73	-10.80	QP	
2		0.1550	32.13	0.00	32.13	55.73	-23.60	AVG	
3		0.1950	52.41	0.00	52.41	63.82	-11.41	QP	
4		0.1950	31.23	0.00	31.23	53.82	-22.59	AVG	
5		5.2400	39.32	0.00	39.32	60.00	-20.68	QP	
6		5.2400	30.25	0.00	30.25	50.00	-19.75	AVG	
7		9.9600	41.95	0.00	41.95	60.00	-18.05	QP	
8		9.9600	37.55	0.00	37.55	50.00	-12.45	AVG	
9		16.9250	44.62	0.00	44.62	60.00	-15.38	QP	
10	*	16.9250	41.98	0.00	41.98	50.00	-8.02	AVG	
11		19.4000	43.51	0.00	43.51	60.00	-16.49	QP	
12		19.4000	34.91	0.00	34.91	50.00	-15.09	AVG	

Power:

AC 120V/60Hz

Humidity:

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

File:1330\Data:#13 Page: 1



**Products** 

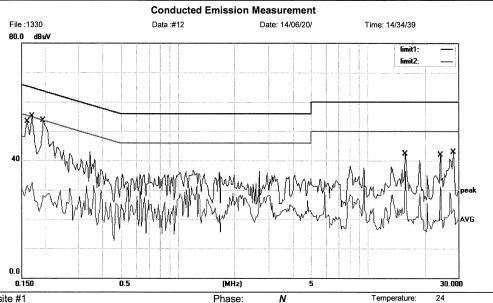
Prüfbericht - Nr.:

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Dongguan EMTEK Co., Ltd. No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079





Site site #1

Limit: (CE)FCC PART 15 class B\_QP

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: Parallel interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1600	53.32	0.00	53.32	65.46	-12.14	QP	
2		0.1600	31.53	0.00	31.53	55.46	-23.93	AVG	
3	*	0.1700	55.04	0.00	55.04	64.96	-9.92	QP	
4		0.1700	32.53	0.00	32.53	54.96	-22.43	AVG	
5		0.1950	53.64	0.00	53.64	63.82	-10.18	QP	
6		0.1950	28.61	0.00	28.61	53.82	-25.21	AVG	
7		15.8000	42.34	0.00	42.34	60.00	-17.66	QP	
8		15.8000	36.39	0.00	36.39	50.00	-13.61	AVG	
9		24.2500	41.99	0.00	41.99	60.00	-18.01	QP	
10		24.2500	31.16	0.00	31.16	50.00	-18.84	AVG	
11		28.2750	42.81	0.00	42.81	60.00	-17.19	QP	
12	72-000	28.2750	26.09	0.00	26.09	50.00	-23.91	AVG	

Power:

AC 120V/60Hz

Humidity:

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

File:1330\Data:#12 Page: 1



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# 5.2 Emission in the Frequency Range above 30 MHz

#### 5.2.1 Radiated emissions

**RESULT: Pass** 

Date of testing

Test standard

Basic standard

Frequency range

Limits

Eimits

Eimit

**Test Setup** 

AC 120V, 60Hz

Operation mode :

Earthing Not Connected

Ambient temperature : **24**°C Relative humidity 55% Atmospheric pressure : 101kPa

\*- The EUT's highest frequency generated and used is 480MHz, hence the highest scan frequency is up to 2GHz only.

For details refer to following test plot.



**Products** 

Test Report No.

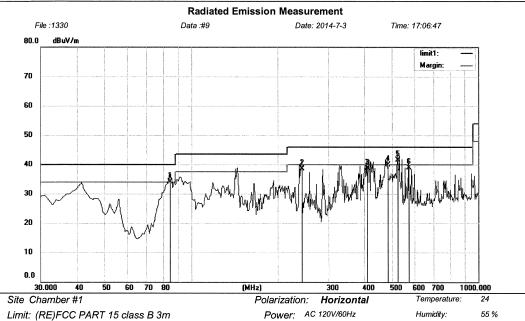
Prüfbericht - Nr.:

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Dongguan EMTEK Co., Ltd. No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079





Limit: (RE)FCC PART 15 class B 3m

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: Ethernet interface connection

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	ст	degree	Comment
1	!	84.3200	53.60	-19.47	34.13	40.00	-5.87	QP			
2		242.4300	51.50	-13.03	38.47	46.00	-7.53	QP			
3		410.2400	47.40	-8.70	38.70	46.00	-7.30	QP			
4		484.9300	47.30	-7.47	39.83	46.00	-6.17	QP			ANNO 10.
5	*	522.7600	48.50	-7.02	41.48	46.00	-4.52	QP			
6		573.2000	45.30	-6.41	38.89	46.00	-7.11	QP			

\*:Maximum data Operator: Bruce x:Over limit !:over margin

File:1330\Data:#9 Page: 1



**Products** 

Test Report No.

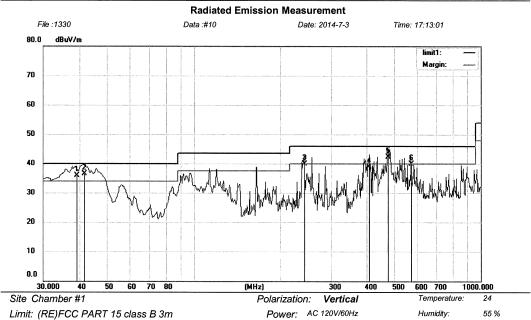
Prüfbericht - Nr.:

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Dongguan EMTEK Co., Ltd. No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079





Limit: (RE)FCC PART 15 class B 3m

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: Ethernet interface connection

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	ст	degree	Comment
1	!	39.1613	52.10	-16.20	35.90	40.00	-4.10	QP			
2	*	41.6400	52.70	-16.12	36.58	40.00	-3.42	QP			
3		242.4300	53.00	-13.03	39.97	46.00	-6.03	QP			
4		408.3000	47.60	-8.75	38.85	46.00	-7.15	QP			
5	!	475.2300	50.10	-7.72	42.38	46.00	-3.62	QP			
6		573.2000	46.30	-6.41	39.89	46.00	-6.11	QP			

\*:Maximum data x:Over limit !:over margin Operator: Bruce

File:1330\Data:#10 Page: 1



Prüfbericht - Nr.:

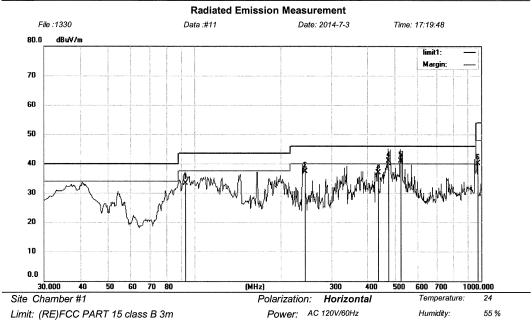
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Test Report No.

Dongguan EMTEK Co., Ltd. No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079





Limit: (RE)FCC PART 15 class B 3m

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: USB interface connection

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
****		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	ст	degree	Comment
1		93.1131	50.30	-17.00	33.30	43.50	-10.20	QP			
2		242.4300	50.40	-13.03	37.37	46.00	-8.63	QP			
3		436.4300	45.20	-8.26	36.94	46.00	-9.06	QP			
4	*	475.2300	48.60	-7.72	40.88	46.00	-5.12	QP			
5	!	522.7600	47.90	-7.02	40.88	46.00	-5.12	QP			
6	-	969.9300	41.70	-1.59	40.11	54.00	-13.89	QP			

\*:Maximum data x:Over limit Operator: Bruce !:over margin

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Prüfbericht - Nr.:

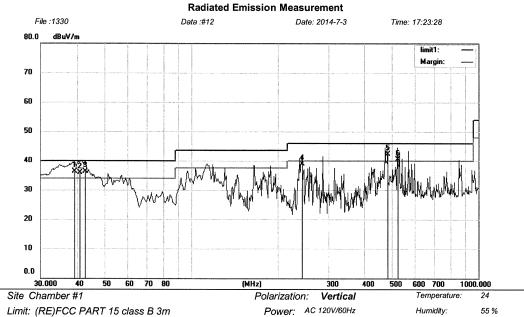
17041964 001

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Test Report No.

Dongguan EMTEK Co., Ltd. No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079





Limit: (RE)FCC PART 15 class B 3m

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: USB interface connection

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	39.1613	52.58	-16.20	36.38	40.00	-3.62	QP			
2	!	40.9880	52.10	-16.13	35.97	40.00	-4.03	QP			
3	!	42.6100	52.40	-16.13	36.27	40.00	-3.73	QP			
4		242.4300	51.90	-13.03	38.87	46.00	-7.13	QP			
5	!	484.9300	49.80	-7.47	42.33	46.00	-3.67	QP			
6	!	522.7600	47.60	-7.02	40.58	46.00	-5.42	QP			

\*:Maximum data x:Over limit !:over margin Operator: Bruce

File:1330\Data:#12 Page: 1



**Products** 

17041964 001 Prüfbericht - Nr.: Test Report No.

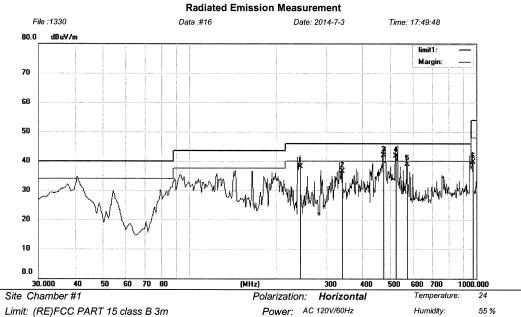
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Dongguan EMTEK Co., Ltd. No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079



Humidity:

55 %



Limit: (RE)FCC PART 15 class B 3m

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: Serial interface connection

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	ст	degree	Comment
1		242.4300	51.20	-13.03	38.17	46.00	-7.83	QP	10000000		
2		339.4300	47.10	-10.50	36.60	46.00	-9.40	QP			
3	*	475.2300	49.60	-7.72	41.88	46.00	-4.12	QP			
4	!	522.7600	48.80	-7.02	41.78	46.00	-4.22	QP			
5		573.2000	45.30	-6.41	38.89	46.00	-7.11	QP			
6		969.9300	41.20	-1.59	39.61	54.00	-14.39	QP			111111111111111111111111111111111111111

\*:Maximum data x:Over limit !:over margin Operator: Bruce

File:1330\Data:#16 Page: 1



Prüfbericht - Nr.:

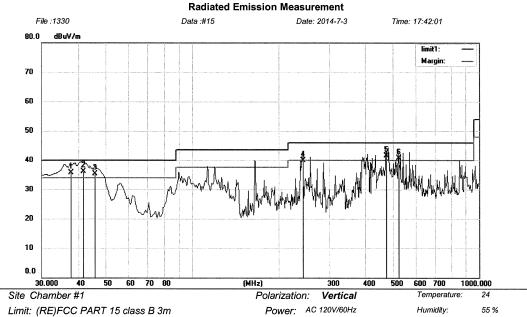
17041964 001

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Test Report No.

Dongguan EMTEK Co., Ltd. No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079





Limit: (RE)FCC PART 15 class B 3m

EUT: Dot Matrix Printer

M/N: 1330

Mode: Printing Note: Serial interface connection

Vo.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	!	37.8121	52.10	-16.34	35.76	40.00	-4.24	QP			
2	*	41.6400	52.30	-16.12	36.18	40.00	-3.82	QP			
3	!	45.6946	51.50	-16.17	35.33	40.00	-4.67	QP			
4		242.4300	53.00	-13.03	39.97	46.00	-6.03	QP			
5	!	475.2300	49.20	-7.72	41.48	46.00	-4.52	QP			
6	!	522.7600	47.80	-7.02	40.78	46.00	-5.22	QP	277 277240		

\*:Maximum data x:Over limit !:over margin Operator: Bruce

File:1330\Data:#15

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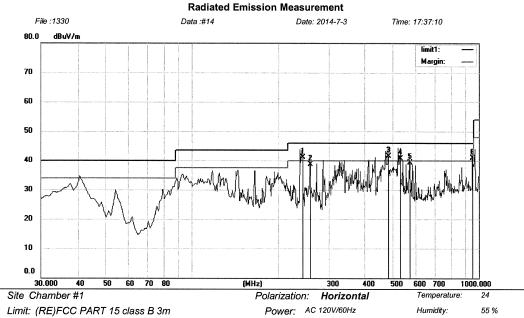
Test Report No.

Dongguan EMTEK Co., Ltd. No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079



Humidity:

55 %



Limit: (RE)FCC PART 15 class B 3m

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: Parallel interface connection

Vo.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	ст	degree	Comment
1	!	242.4300	54.20	-13.03	41.17	46.00	-4.83	QP			
2		257.9500	51.70	-12.96	38.74	46.00	-7.26	QP			
3	*	484.9300	48.90	-7.47	41.43	46.00	-4.57	QP		WANT	1 1 2
4	!	533.4300	47.60	-6.90	40.70	46.00	-5.30	QP			101111111111111111111111111111111111111
5	-	573.2000	45.70	-6.41	39.29	46.00	-6.71	QP			
6	!	951.5000	42.60	-1.79	40.81	46.00	-5.19	QP			

\*:Maximum data x:Over limit Operator: Bruce !:over margin

File:1330\Data:#14 Page: 1



**Products** 

Test Report No.

17041964 001 Prüfbericht - Nr.:

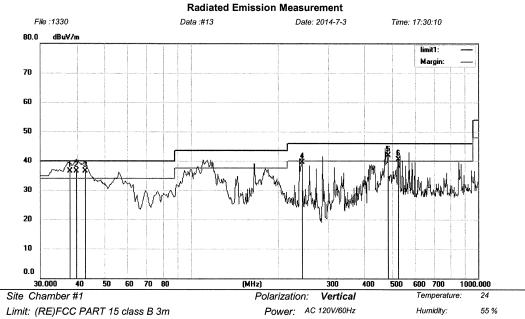
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Dongguan EMTEK Co., Ltd. No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China www.emtek.com.cn Tel:+86-769-2280 7078 Fax:+86-769-2280 7079



Humidity:

55 %



Limit: (RE)FCC PART 15 class B 3m

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: Parallel interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	!	37.7600	52.90	-16.35	36.55	40.00	-3.45	QP	0.00		VI 100 S
2	!	39.7146	52.70	-16.15	36.55	40.00	-3.45	QP			
3	*	42.6100	52.70	-16.13	36.57	40.00	-3.43	QP	A-4-04-000		
4		242.4300	52.50	-13.03	39.47	46.00	-6.53	QP			
5	!	484.9300	49.30	-7.47	41.83	46.00	-4.17	QP			
6	!	522.7600	47.60	-7.02	40.58	46.00	-5.42	QP	. 71346-		

\*:Maximum data x:Over limit !:over margin Operator: Bruce

File:1330\Data:#13 Page: 1



**Products** 

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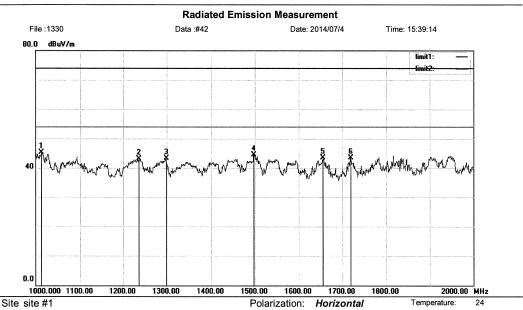
Test Report No.

Sherizhen EMTEK Co., Ltd.
Bidg.69, Majialong Industry Zone, Nanshan District, Sherizhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2696 4282



Humidity:

53 %



Power: AC 120V/60Hz

Limit: ( RE)FCC PART 15 CLASS B Peak EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: Ethernet interface connection

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1013.000	68.24	-22.88	45.36	74.00	-28.64	peak		0	
2		1236.000	66.62	-23.53	43.09	74.00	-30.91	peak		0	
3		1299.000	66.84	-23.56	43.28	74.00	-30.72	peak		0	
4		1498.000	68.55	-24.08	44.47	74.00	-29.53	peak		0	***************************************
5		1655.000	68.22	-24.75	43.47	74.00	-30.53	peak		0	
6		1719.000	68.57	-24.98	43.59	74.00	-30.41	peak	oceanc.	0	

\*:Maximum data x:Over limit !:over margin Operator: Bruce

File:1330\Data:#42

Page: 1



**Products** 

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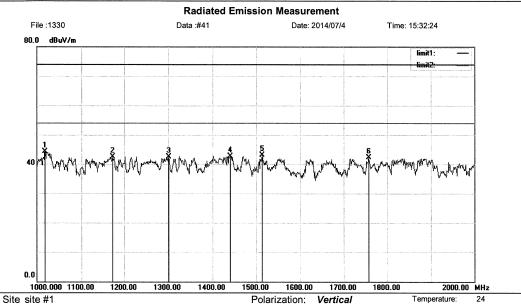
Test Report No.

Shenzhen EMTEK Co., Ltd.
Bldg.69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Power: AC 120V/60Hz

Limit: ( RE)FCC PART 15 CLASS B Peak

**EUT: Dot Matrix Printer** M/N: 1330 Mode: Printing

Note: Ethernet interface connection

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1018.000	67.16	-22.90	44.26	74.00	-29.74	peak		0	
2		1172.000	65.91	-23.42	42.49	74.00	-31.51	peak		0	
3		1302.000	66.10	-23.56	42.54	74.00	-31.46	peak		0	
4		1441.000	66.52	-23.80	42.72	74.00	-31.28	peak	111111111111111111111111111111111111111	0	
5		1514.000	67.25	-24.15	43.10	74.00	-30.90	peak		0	
6		1758.000	67.37	-25.11	42.26	74.00	-31.74	peak		0	4,00000

\*:Maximum data x:Over limit !:over margin Operator: Bruce

File:1330\Data:#41 Page: 1



**Products** 

Prüfbericht - Nr.:

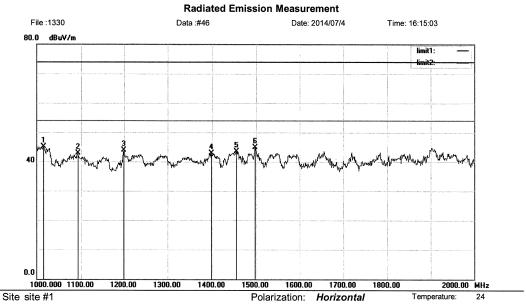
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Test Report No.

Shenzhen EMTEK Co., Ltd.
Bldg.69,Majistong Industry Zone,Nanshan District,Shenzhen,Guangdong,518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282





Limit: ( RE)FCC PART 15 CLASS B Peak

Humidity:

53 %

Power: AC 120V/60Hz

M/N: 1330 Mode: Printing

EUT: Dot Matrix Printer

Note: USB interface connection

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1015.000	67.91	-22.89	45.02	74.00	-28.98	peak		0	
2		1092.000	66.00	-23.15	42.85	74.00	-31.15	peak		0	
3		1199.000	67.51	-23.52	43.99	74.00	-30.01	peak		0	
4		1398.000	66.60	-23.60	43.00	74.00	-31.00	peak	V - 1007-9-40004666	0	
5		1455.000	67.35	-23.86	43.49	74.00	-30.51	peak		0	
6		1498.000	69.05	-24.08	44.97	74.00	-29.03	peak		0	

\*:Maximum data x:Over limit !:over margin Operator: Bruce

File:1330\Data:#46

Page: 1



**Products** 

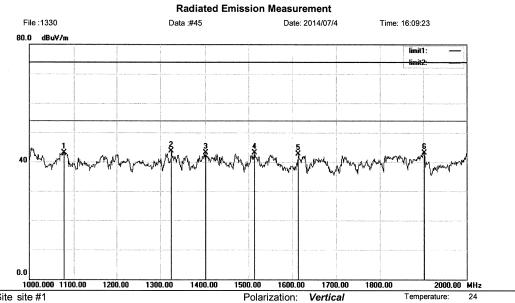
Prüfbericht - Nr.:

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Test Report No.





Power: AC 120V/60Hz

Site site #1

Limit: ( RE)FCC PART 15 CLASS B Peak

EUT: Dot Matrix Printer

M/N: 1330 Mode: Printing

Note: USB interface connection

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1078.000	66.17	-23.10	43.07	74.00	-30.93	peak		0	
2	*	1325.000	67.33	-23.56	43.77	74.00	-30.23	peak		0	
3		1402.000	66.80	-23.60	43.20	74.00	-30.80	peak		0	
4		1514.000	67.25	-24.15	43.10	74.00	-30.90	peak		0	***************************************
5		1614.000	67.34	-24.62	42.72	74.00	-31.28	peak		0	www.manacacacacacacacacacacacacacacacacacaca
6		1903.000	68.28	-25.19	43.09	74.00	-30.91	peak		0	MORNING A CO. C.

\*:Maximum data

x:Over limit !:over margin

File:1330\Data:#45

Page: 1

Operator: Bruce

Humidity:

53 %



**Products** 

Test Report No.

17041964 001 Prüfbericht - Nr.:

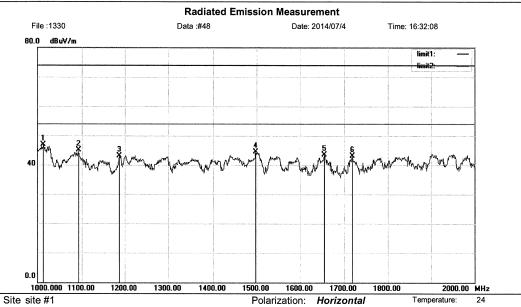
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Shenzhen EMTEK Co., Ltd.
Bidg.69.Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Power: AC 120V/60Hz

Limit: ( RE)FCC PART 15 CLASS B Peak

**EUT: Dot Matrix Printer** 

M/N: 1330 Mode:Printing

Note: Serial interface connection

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1013.000	69.74	-22.88	46.86	74.00	-27.14	peak		0	***************************************
2		1093.000	68.31	-23.16	45.15	74.00	-28.85	peak	20.000 A.	0	
3		1187.000	66.54	-23.48	43.06	74.00	-30.94	peak		0	
4		1498.000	68.55	-24.08	44.47	74.00	-29.53	peak		0	
5		1655.000	68.22	-24.75	43.47	74.00	-30.53	peak		0	
6		1719.000	68.07	-24.98	43.09	74.00	-30.91	peak		0	

\*:Maximum data x:Over limit !:over margin Operator: Bruce

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**Products** 

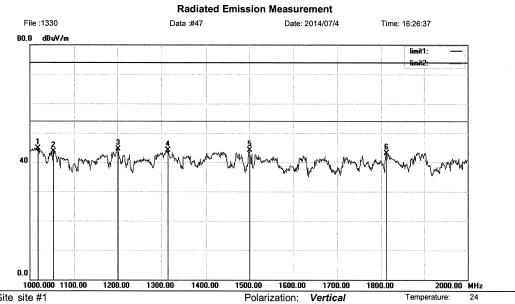
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Power: AC 120V/60Hz

Site site #1

Limit: ( RE)FCC PART 15 CLASS B Peak

**EUT: Dot Matrix Printer** 

M/N: 1330 Mode: Printing

Note: Serial interface connection

1 * 2 3 4 5	*	MHz	dBuV						Height	Degree	
2 3 4	*			dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
3		1018.000	67.66	-22.90	44.76	74.00	-29.24	peak		0	
4		1053.000	66.73	-23.01	43.72	74.00	-30.28	peak		0	
		1202.000	67.98	-23.52	44.46	74.00	-29.54	peak		0	
5		1315.000	67.66	-23.56	44.10	74.00	-29.90	peak		0	
J		1501.000	68.09	-24.08	44.01	74.00	-29.99	peak		0	
6		1812.000	68.27	-25.25	43.02	74.00	-30.98	peak		0	

\*:Maximum data x:Over limit !:over margin

File:1330\Data:#47

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Operator: Bruce

Humidity:

53 %



**Products** 

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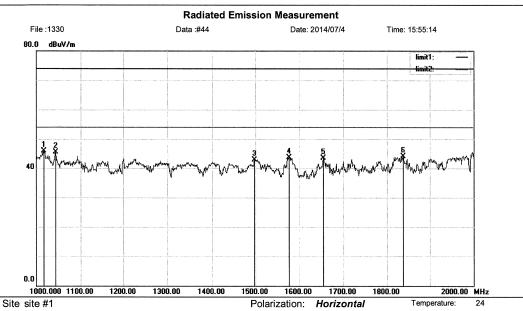
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Shenzhen EMTEK Co., Ltd.
Bldg:69;Majialong Industry Zone,Nanshan District,Shenzhen,Guangdong;\$18052 P.R. China
www.smtek.com.co. Tel:+86-755-2695 4280 Fex:+86-756-2695 4282



Humidity:

53 %



Power: AC 120V/60Hz

Limit: ( RE)FCC PART 15 CLASS B Peak

EUT: Dot Matrix Printer

M/N: 1330 Mode:Printing

Note: Parallel interface connection

No. Mk.         Freq.         Reading Level         Correct Factor         Measurement         Limit         Over         Antenna Height         Table Degree           1         MHz         dBuV         dB         dBuV/m         dB uV/m         dB         Detector         cm         degree         Comment           1         * 1017.000         68.89         -22.89         46.00         74.00         -28.00         peak         0           2         1043.000         68.59         -22.99         45.60         74.00         -28.40         peak         0           3         1498.000         67.05         -24.08         42.97         74.00         -31.03         peak         0           4         1578.000         68.13         -24.46         43.67         74.00         -30.33         peak         0           5         1655.000         68.22         -24.75         43.47         74.00         -30.53         peak         0           6         1838.000         69.36         -25.23         44.13         74.00         -29.87         peak         0	_													
1 * 1017.000       68.89       -22.89       46.00       74.00       -28.00       peak       0         2 1043.000       68.59       -22.99       45.60       74.00       -28.40       peak       0         3 1498.000       67.05       -24.08       42.97       74.00       -31.03       peak       0         4 1578.000       68.13       -24.46       43.67       74.00       -30.33       peak       0         5 1655.000       68.22       -24.75       43.47       74.00       -30.53       peak       0		No.	Mk	c. Freq.	-			Limit	Over					
2 1043.000 68.59 -22.99 45.60 74.00 -28.40 peak 0 3 1498.000 67.05 -24.08 42.97 74.00 -31.03 peak 0 4 1578.000 68.13 -24.46 43.67 74.00 -30.33 peak 0 5 1655.000 68.22 -24.75 43.47 74.00 -30.53 peak 0	_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
3 1498.000 67.05 -24.08 42.97 74.00 -31.03 peak 0 4 1578.000 68.13 -24.46 43.67 74.00 -30.33 peak 0 5 1655.000 68.22 -24.75 43.47 74.00 -30.53 peak 0		1	*	1017.000	68.89	-22.89	46.00	74.00	-28.00	peak		0		
4 1578.000 68.13 -24.46 43.67 74.00 -30.33 peak 0 5 1655.000 68.22 -24.75 43.47 74.00 -30.53 peak 0	-	2		1043.000	68.59	-22.99	45.60	74.00	-28.40	peak		0		
5 1655.000 68.22 -24.75 43.47 74.00 -30.53 peak 0		3		1498.000	67.05	-24.08	42.97	74.00	-31.03	peak		0		
		4		1578.000	68.13	-24.46	43.67	74.00	-30.33	peak		0		
6 1838.000 69.36 -25.23 44.13 74.00 -29.87 peak 0	_	5		1655.000	68.22	-24.75	43.47	74.00	-30.53	peak		0		
	_	6		1838.000	69.36	-25.23	44.13	74.00	-29.87	peak		0	***************************************	

\*:Maximum data x:Over limit !:over margin Operator: Bruce

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**Products** 

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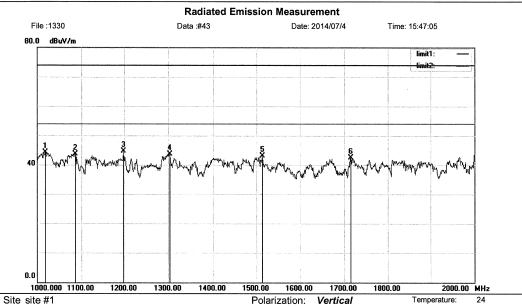
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Shenzhen EMTEK Co., Ltd.
Bidg. 66. Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China
www.emtek.com.cn Tej:+86-755-2695 4280 Fax:+86-756-2696 4282



Humidity:

53 %



Power: AC 120V/60Hz

Limit: ( RE)FCC PART 15 CLASS B Peak

EUT: Dot Matrix Printer

M/N: 1330 Mode:Printing

Note: Parallel interface connection

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1018.000	67.16	-22.90	44.26	74.00	-29.74	peak		0	
2		1086.000	66.84	-23.13	43.71	74.00	-30.29	peak		0	
3	*	1198.000	68.30	-23.51	44.79	74.00	-29.21	peak		0	
4		1303.000	67.26	-23.55	43.71	74.00	-30.29	peak		0	
5		1514.000	67.25	-24.15	43.10	74.00	-30.90	peak		0	- PAR SAMPAR MANAGEMENT
6		1715.000	67.38	-24.96	42.42	74.00	-31.58	peak		0	

\*:Maximum data x:Over limit !:over margin Operator: Bruce

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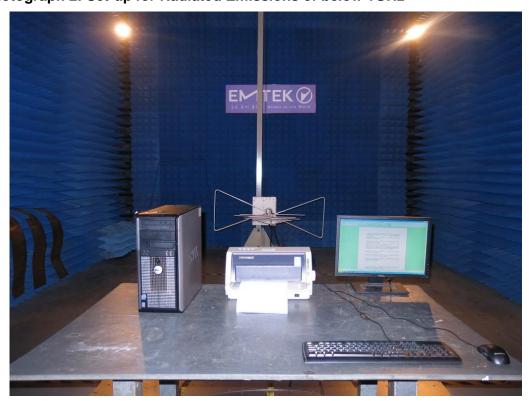
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# 6. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emissions



Photograph 2: Set-up for Radiated Emissions of below 1GHz





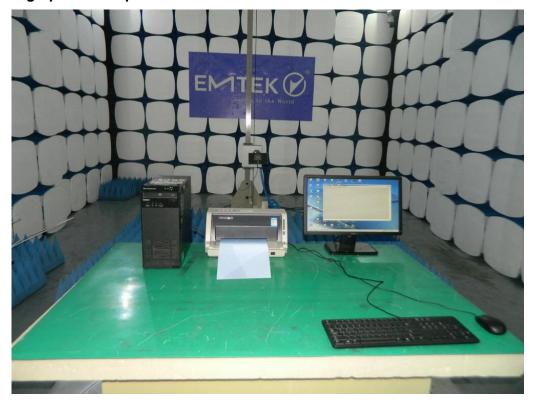
Products

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### Photograph 3: Set-up for Radiated Emissions of 1 - 2GHz





**Products** 

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