

Report No.: 70705203-D

for

KEYBOARD

MODEL: PK-807; KP-807

Test Report Number: 70705203-D

Issued to:

Palm Max Technology Corp.

4F, 124, Yung-Her Rd., Joung-Her City,
Taipei Shien, Taiwan

Issued by:

Compliance Certification Services Inc. Sindian BU

No.163-1, Jhongsheng Rd., Sindian City, Taipei County 23151, Taiwan TEL: 886-2-22170894

> FAX: 886-2-22171029 Issued Date: July 11, 2007







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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00		Initial Issue	ALL	

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1 TEST RESULT CERTIFICATION

Product: KEYBOARD

Model: PK-807; KP-807

Brand: N/A

Applicant: Palm Max Technology Corp.

4F, 124, Yung-Her Rd., Joung-Her City,

Taipei Shien, Taiwan

Manufacturer: Palm Max Technology Corp.

4F, 124, Yung-Her Rd., Joung-Her City,

Taipei Shien, Taiwan

Tested: July 6, 2007

	EMISSION		
Standard	Item	Result	Remarks
FCC 4/ CFR Part 15 Subpart B,	Conducted (Main Port)	PASS	Meet Class B limit
ICES-003 Issue 4 ANSI C63.4-2003	Radiated	PASS	Meet Class B limit

Note: 1. The test result judgment is decided by the limit of measurement standard.

2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard
None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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David Wang

Approved by:

Manager of Sindian BU

Reviewed by:

Vince Chiang

Assistant Manager of Sindian BU

EUT DESCRIPTION

Product	KEYBOARD
Brand Name	N/A
Model	PK-807; KP-807
Applicant	Palm Max Technology Corp.
Housing material	Plastic
Serial Number	N/A
Received Date	July 5, 2007
EUT Power Rating	5VDC from Host PC Power Supply
AC Power During Test	120VAC / 60Hz to Host PC Power Supply
EUT I/O Cable Type	Shielded, 1.5m (Non-Detachable)

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Model Differences

Model Name	Difference	Tested (Checked)	
PK-807	Original		
KP-807	For marketing purpose only.		

I/O PORT

I/O PORT TYPES		Q'TY	TESTED WITH	
1.	PS/2 Port	1	1	

Note: Client consigns only one model sample (Model Number is PK-807) to test.

3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the above additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

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The test configuration/ mode is as the following:

Mode:

1. Normal Mode

Conduction: Mode 1 **Radiation:** Mode 1

3.2. EUT SYSTEM OPERATION

- 1. Windows XP boots system.
- 2. Run Emctest.exe to activate all peripherals and display "H" pattern on monitor screen
- 3. Run NotePad.exe and press "H" button of EUT for test.

Note: Test program is self-repeating throughout the test.

4 SETUP OF EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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Peripherals Devices:

No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Trade Name	Data Cable	Power Cord
1	PS/2 Mouse	M071KC	443029438	DOC BSMI: R41108	DELL	Shielded, 1.8m	N/A
2	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP- SOLUTION	Shielded, 1.2m	Unshielded, 1.8m
3	Host PC	xw4400	N/A	DOC BSMI: R33001	НР	Shielded, 1.5m	Unshielded, 1.8m
4	Monitor	710V	GS17H9NXA05854P	DOC BSMI: R33475	SAMAUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
5	Printer	C60	N/A	BSMI ID: 3902E006	EPSON	Shielded, 1.8m	Unshielded, 1.8m

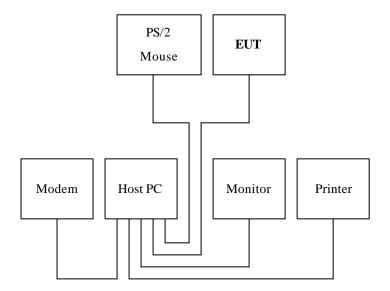
Note:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



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4.2. CONFIGURATION OF SYSTEM UNDER TEST



5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at CCS Taiwan Sindian BU at No.163-1, Jhongsheng Rd., Sindian City, Taipei County 23151, Taiwan.

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The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5.

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC, A2LA
Germany	TUV Rheinland
_	

Japan VCCI Norway NEMKO

Canada INDUSTRY CANADA

Taiwan TAF, BSMI

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsemc.com.tw

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty	
Conducted emissions	9kHz~30MHz	± 2.0359	
Dadioted amissions	30MHz ~ 200MHz	± 3.9464	
Radiated emissions	200MHz ~1000MHz	± 3.9237	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		
FREQUENCI (MIZ)	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.50 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

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NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

6.2. TEST INSTRUMENTS

	Conducted Emission room # A								
Name of Equipment	Manufacturer Model		Serial Number	Calibration Due					
TEST RECEIVER	R&S	ESHS20	840455/006	02/12/2008					
LISN (EUT)	SCHWARZBECK	NSLK 8127	8127382	12/06/2007					
LISN	SOLAR	8012-50-R-24-BNC	8305114	12/26/2007					
BNC CABLE	JYE BAO	RG-223/U	BNC A 2	10/10/2007					
THERMO- HYGRO METER	ТОР	HA-202	9303-1	02/04/2008					
Test S/W	EMI 32.exe								

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

 $2. N.C.R = No\ Calibration\ Request.$

6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA -031)

Procedure of Preliminary Test

• The EUT and Support equipment, if needed, was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

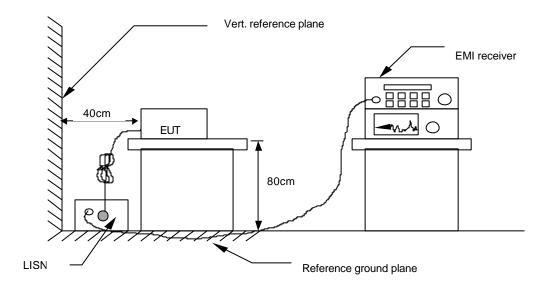
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- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed received AC main power, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All support equipment power received from a second LISN.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest
 emissions. Emission frequency and amplitude were recorded into a computer in which
 correction factors were used to calculate the emission level and compare reading to the
 applicable limit.
- The test data of the worst-case condition(s) was recorded.

6.4. TEST SETUP



 For the actual test configuration, please refer to the related item - Photographs of the Test Configuration.

6.5. DATA SAMPLE

Freq. MHz	Read Level dBuV	Factor dB	Level dBuV	Limit dBuV	Over Limit dB	Reading Type (P/Q/A)	Line (L1/L2)
X.XX	42.95	0.55	43.50	56	-12.50	Q	L1

Freq. = Emission frequency in MHz

Read Level = Uncorrected Analyzer/Receiver reading Factor = Insertion loss of LISN + Cable Loss

Level = Read Level + Factor Limit = Limit stated in standard Over Limit = Reading in reference to limit

P = Peak Reading Q = Quasi-peak Reading A = Average Reading

L1 = Hot side L2 = Neutral side

Calculation Formula

Over Limit (dB) = Level (dBuV) - Limit (dBuV)

6.6. TEST RESULTS

Model No.	PK-807	6dB Bandwidth	10 kHz
Environmental Conditions	26°C, 64% RH, 1010mbar	Test Mode	Mode 1
Tested by	Alex Pan		

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(The chart below shows the highest readings taken from the final data.)

	Conducted Emission Readings								
Free	quency Ran	ge Investig	ated		150 kHz to	30 MHz			
Freq (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Reading Type (P/Q/A)	Line (L1/L2)		
0.158	45.68	0.49	46.17	65.56	-19.39	P	L1		
0.953	40.03	0.63	40.66	56.00	-15.34	P	L1		
1.426	38.55	0.65	39.20	56.00	-16.80	P	L1		
0.570	40.79	0.13	40.92	56.00	-15.08	P	L2		
1.331	39.46	0.15	39.61	56.00	-16.39	P	L2		
2.993	37.08	0.25	37.33	56.00	-18.67	P	L2		

NOTE: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)

^{2.} The emission level was or more than 2dB below the Average limit, so no re-check anymore.

7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	dBuV/m (At 10m)			
	Class A	Class B		
30 ~ 230	40	30		
230 ~ 1000	47	37		

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NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.

7.2. TEST INSTRUMENTS

	Open Area Test Site # H								
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE					
SITE NSA	CCS	H Site	N/A	10/08/2007					
MEASURE RECEIVER	SCHAFFNER	SCR 3501	341	09/11/2007					
SPECTRUM ANALYZER	ADVANTEST	R3132	120900002	No Calibration Required					
ANTENNA	SCHAFFNER	CBL 6112B	2801	09/22/2007					
AMPLIFIER	SCHAFFNER	CPA9231A	3613	10/10/2007					
CABLE	BELDEN	9913	N-TYPE #H3	03/06/2008					
THERMO- HYGRO METER	TFA	N/A	NO.1	12/24/2007					
Test S/W	Lab VIEW 5.1								

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

^{2.} $N.C.R = No\ Calibration\ Request.$

7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA -031)

Procedure of Preliminary Test

• The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.



Procedure of Final Test

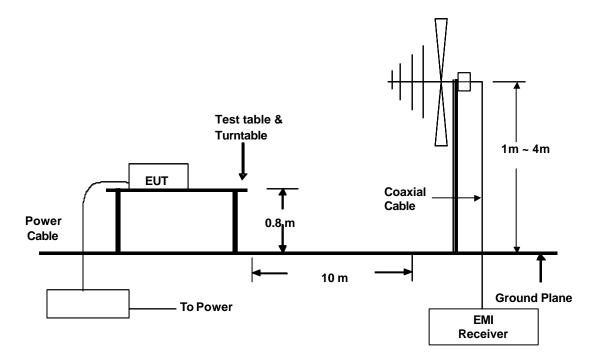
• EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.

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• The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

	maximize the emission reading level.
•	Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
•	The test data of the worst-case condition(s) was recorded.

7.4. TEST SETUP



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 For the actual test configuration, please refer to the related item — Photographs of the Test Configuration.

7.5. DATA SAMPLE

Freq. MHz	Amptd dBuV/m	Margin dB	Limit dBuV/m	Reading dBuV	Factor dB/m	Reading Type (P/Q/A)	Pol. (H/V)
x.xx	26.2	-3.8	30	14	12.2	Q	Н

Freq. = Emission frequency in MHz

Reading = Uncorrected Analyzer/Receiver reading

Factor = Antenna Factor + Cable Loss + Attenuator (3/6/10dB) – Amplifier Gain

Amptd = Uncorrected Analyzer/Receiver reading + Factor

Limit = Limit stated in standard
Margin = Reading in reference to limit

P = Peak Reading Q = Quasi-peak Reading A = Average Reading

H = Antenna Polarization: Horizontal V = Antenna Polarization: Vertical

Calculation Formula

Margin (dB) = Amptd (dBuV/m) – Limit (dBuV/m)

7.6. TEST RESULTS

Model No.	PK-807	6dB Bandwidth	120 kHz
Environmental Conditions	27°C, 55% RH, 1010mbar	Test Mode	Mode 1
Antenna Pole	Vertical	Antenna Distance	10m
Tested by	Jeffery Chu		

Report No.: 70705203-D

(The chart below shows the highest readings taken from the final data.)

Six Highest Radiated Emission Readings								
Frequency Range Investigated				30 M	Hz to 1000	MHz at 101	m	
Freq (MHz)	Amptd (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Reading (dBuV)	Factor (dB/m)	Reading Type (P/Q/A)	Pol. (H/V)	
45.0200	21.76	-8.24	30.00	40.20	-18.44	Q	V	
63.2400	16.71	-13.29	30.00	38.40	-21.69	Q	V	
125.0400	22.06	-7.94	30.00	37.70	-15.64	Q	V	
130.0200	22.44	-7.56	30.00	38.10	-15.66	Q	V	
148.3800	24.14	-5.86	30.00	40.20	-16.06	Q	V	
208.6700	21.19	-8.81	30.00	37.60	-16.41	Q	V	

1. P= Peak Reading; Q= Quasi-peak Reading A= Average Reading

2. The other emission levels were very low against the limit.

3. 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.



Model No.	PK-807	6dB Bandwidth	120 kHz
Environmental Conditions	27°C, 55% RH, 1010mbar	Test Mode	Mode 1
Antenna Pole	Horizontal	Antenna Distance	10m
Tested by	Jeffery Chu		

Report No.: 70705203-D

(The chart below shows the highest readings taken from the final data.)

	Six Highest Radiated Emission Readings								
Frequency Range Investigated				30 MHz to 1000 MHz at 10m					
Freq (MHz)	Amptd (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Reading (dBuV)	Factor (dB/m)	Reading Type (P/Q/A)	Pol. (H/V)		
47.4200	17.30	-12.70	30.00	35.80	-18.50	Q	H		
63.9200	16.03	-13.97	30.00	37.60	-21.57	Q	Н		
115.4200	21.24	-8.76	30.00	37.20	-15.96	Q	Н		
123.4700	22.77	-7.23	30.00	38.40	-15.63	Q	H		
128.8600	21.85	-8.15	30.00	37.50	-15.65	Q	H		
150.2100	20.97	-9.03	30.00	37.10	-16.13	Q	Н		

REMARKS: 1. P= Peak Reading; Q= Quasi-peak Reading A= Average Reading

2. The other emission levels were very low against the limit.

3. 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.



PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST







RADIATED EMISSION TEST



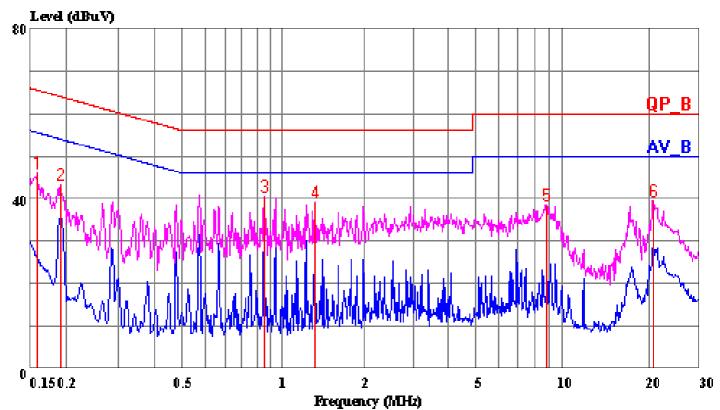




No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan, R.O.C.

Tel:02-2217-0894 Fax:02-2217-1029

Data#: 3 File#: 70705203ca.EMI Date: 2007-07-06 Time: 17:48:15



(Conduction A)

Trace: 2 1 Ref Trace:

Condition: LINE

Report No. : 70705203 Test Engr. : Alex Pan

Company : Palm Max Technology Corp.

: PK-807

Test Config : EUT / ALL PERIPHERALS

Type of Test: FCC CLASS B Mode of Op. : Normal Mode

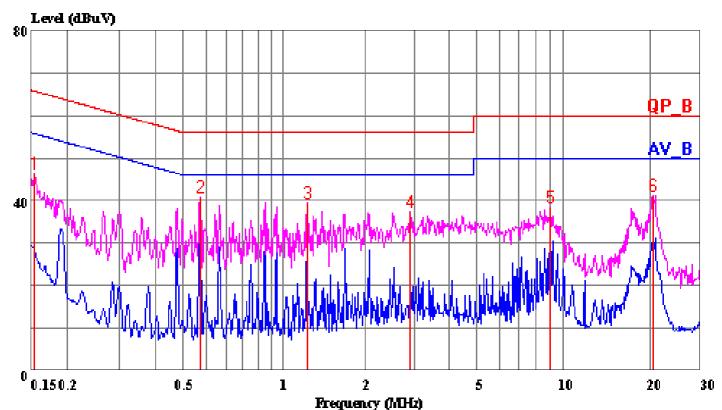
Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	
	MHz	dBuV	dB	dBuV	——dBuV	dB		
1 2 3	0.158 0.190 0.953	45.68 42.81 40.03	0.49 0.39 0.63	40.66	64.02 56.00	-19.39 -20.82 -15.34	Peak Peak	
4 5 6	1.426 8.916 20.814	38.55 37.43 37.71	0.65 1.04 1.73	39.20 38.47 39.44	60.00	-16.80 -21.53 -20.56	Peak	

No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan, R.O.C.

Tel:02-2217-0894 Fax:02-2217-1029

Data#: 6 File#: 70705203ca.EMI Date: 2007-07-06 Time: 17:53:38



(Conduction A)

Trace: 5 4 Ref Trace:

Condition: NEUTRAL
Report No. : 70705203
Test Engr. : Alex Pan

Company : Palm Max Technology Corp.

EUT : PK-807

Test Config : EUT / ALL PERIPHERALS

Type of Test: FCC CLASS B Mode of Op.: Normal Mode

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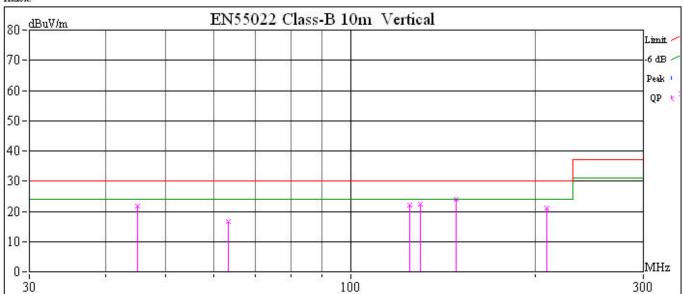
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	
	MHz	dBuV	dB	dBuV	dBuV	dB		
1 2 3 4 5	0.153 0.570 1.331 2.993 9.156 20.486	46.42 40.79 39.46 37.08 37.89 39.90	0.11 0.13 0.15 0.25 0.63 1.41	46.53 40.92 39.61 37.33 38.53 41.30	56.00 56.00 56.00 60.00	-19.29 -15.08 -16.39 -18.67 -21.47 -18.70	Peak Peak Peak Peak	

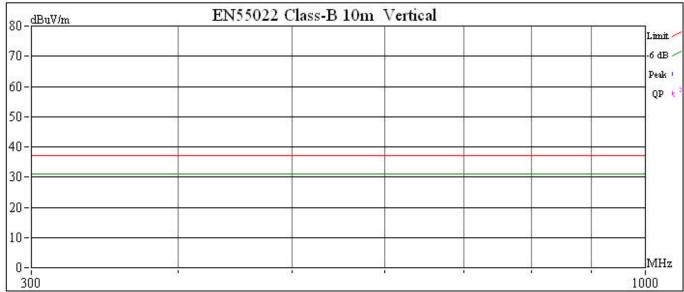
Site H

Project No.: 70705203 Engineer Name: Jeffery Chu Date: 2007-07-06 Custom Name: Palm Max Technology Corp. Model Name: PK-807

Test Mode: Normal Mode

Index:





	Freq(MHz)	Peak(dBuV/m)	QP(dBuV/m)	Margin(dB)	Limit(dBuV/m)	Reading(dBuV)	Factor(dB)	Height	Degree	Comment
1	45.0200	-18.44	21.76	-8.24	30.00	40.20	-18.44	100	0	
2	63.2400	-21.69	16.71	-13.29	30.00	38.40	-21.69	100	0	
3	125.0400	-15.64	22.06	-7.94	30.00	37.70	-15.64	100	0	
4	130.0200	-15.66	22.44	-7.56	30.00	38.10	-15.66	100	0	
5	148.3800	-16.06	24.14	-5.86	30.00	40.20	-16.06	100	0	
6	208.6700	-16.41	21.19	-8.81	30,00	37.60	-16.41	100	0	
			10	10 2						
			iii		2	10		-		
		5° 5°	100 M	5 5						
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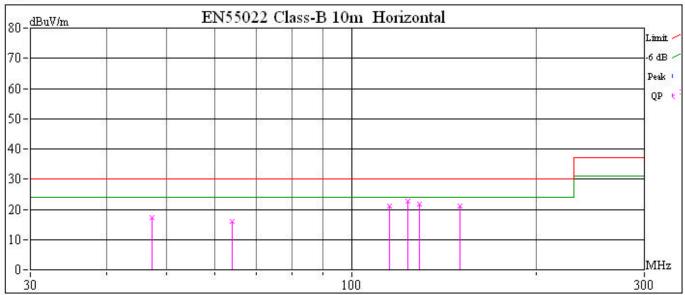


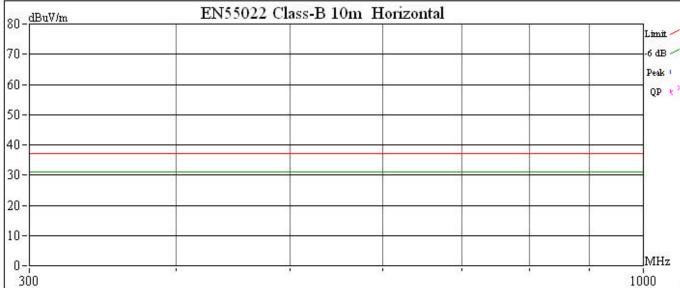
Custom Name: Palm Max Technology Corp.

Model Name: PK-807 Test Mode: Normal Mode Project No.: 70705203 Engineer Name: Jeffery Chu Date: 2007-07-06

Site H

Index:





	Freq(MHz)	Peak(dBuV/m)	QP(dBuV/m)	Margin(dB)	Limit(dBuV/m)	Reading(dBuV)	Factor(dB)	Height	Degree	Comment
1	47.4200	-18.50	17.30	-12.70	30.00	35.80	-18.50	100	0	
2	63.9200	-21.57	16.03	-13.97	30.00	37.60	-21.57	100	0	
3	115.4200	-15.96	21.24	-8.76	30.00	37.20	-15.96	100	0	
4	123,4700	-15.63	22.77	-7.23	30.00	38.40	-15.63	100	0	
5	128.8600	-15.65	21.85	-8.15	30.00	37.50	-15.65	100	0	
б	150.2100	-16.13	20.97	-9.03	30.00	37.10	-16.13	100	0	
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