



# The Hong Kong Standards and Testing Centre Ltd.

## TEST REPORT

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Date: 1998-07-15

No.: WM1253/504

APPLICANT: (CODE : 000474)

GPE INTERNATIONAL LTD.  
6/F, GOLD PEAK BLDG., 30-34 KWAI WING ROAD, KWAI CHUNG, N.T., HONG KONG.

DATE OF SAMPLES RECEIVED: 1998.07.08

DATE OF TESTING: 1998.07.14

### DESCRIPTION OF SAMPLE(S):

A sample of product said to be:

Product: Car Radio Cassette

Manufacturer: GPE INTERNATIONAL LTD.

Band Combination: AM/FM/WEATHER BAND

Model Number: M9850

Brand Name: MAGNADYNE

Rating: DC 12V

Origin: China

Additional model: M9860, M9800, M9800H

### INVESTIGATIONS REQUESTED:

Measurement to the relevant clauses of F.C.C. Rules and Regulations Part 15 Subpart C - Radio Receiver.

RESULT/ REMARK: Please see attached sheet(s).

### CONCLUSION:

From the measurement data obtained, the tested sample was considered to have COMPLIED with the requirement for the relevant clauses of Federal Communication Commission Rules for Radio Receivers.

TEST EQUIPMENT AUDIT: Please see Appendix A

Testing Engineer

Verify by

  
Patrick Wong

for Managing Director

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### TEST SUMMARY

(A) Measurement of Radiated Emissions  
(On FM, WEATHER BAND)

Result -- Satisfactory

Data -- See the attached data

(B) Measurement of Line-Conducted Voltage

Not applicable



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### \*\*\*FM BAND RADIO RECEIVER\*\*\*

#### (A) Measurement of Radiated Interference

TEST REFERENCE: FCC Rules Part 15 Subpart C section 15.63(a)

TEST CONDITION : Normal

TEST DATE : 1998.07.14

Freq. to which tuned MHz	Freq. of the emission MHz	Polarity	Meter Reading (including Antenna Factor) at 3m dB(µV/m)	Field Strength (at 3m) µV/m	FCC Limit @ µV/m
88.3	99.0	Horizontal	49.7	305	500
98.3	109.0	Horizontal	50.3	327	500
108.3	119.0	Horizontal	47.7	243	500

### \*\*\*WEATHER BAND RECEIVER\*\*\*

#### (A) Measurement of Radiated Interference

TEST REFERENCE: FCC Rules Part 15 Subpart C section 15.63(a)

TEST CONDITION : WEATHER BAND RECEIVER

TEST DATE : 1998.07.14

Freq. to which tuned MHz	Freq. of the emission MHz	Polarity	Meter Reading (including Antenna Factor) at 3m dB(µV/m)	Field Strength (at 3m) µV/m	FCC Limit @ µV/m
166.1	176.80	Vertical	56.1	638.26	1500

### =====SUMMARY=====

All data is within limits

=====  
Broad-band Antennas were used  
=====

Remark: IF = 10.70 MHz



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### NOTES FOR THE RADIATION MEASUREMENT

(1) Test site facility:

Open field test site located at Taipo (Hong Kong) with a metal ground plane on filed with the FCC pursuant to section 15.38 of the FCC rules (old rule).

(2) Distance between the EUT and measuring antenna:

3 meters.

(3) Measuring instrumentations:

CISPR Quasi-peak type field strength meter (25MHz - 1000MHz) 6 dB bandwidth set at 120KHz.

(4) Measuring antenna:

Broad band antenna for the frequency range 25 - 1000 MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable included in the Antenna Factor for measurement data. The antenna are capable of measuring both horizontal and vertical polarization.

(5) Frequency range scanned:

The frequency range from 25 MHz to 1000 MHz had been searched. Readings of the highest emissions relating to the limit were reported as above.

(6) Arrangement of EUT:

During the test, the sample was operated at rated supply voltage and arranged for maximum emissions.

(7) Measuring Procedure:

In accordance with the relevant sections of ANSI C63.4:1992.

(8) Measuring Uncertainty:

The calculated uncertainty for measurement performed at 3M test distance are:-  
30MHz to 200MHz =  $\pm 3.7\text{dB}$ , 300MHz to 1000MHz =  $3.0\text{dB}/-2.7\text{dB}$ .

\*\* End of Document \*\*



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## APPENDIX A

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Date: 1998-07-15  
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### TEST EQUIPMENT AUDIT

#### Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM007	SPECTRUM ANALYZER	HP	HP85660B	3144A21192	29/05/98
EM008	SPECTRUM ANALYZER DISPLAY	HP	HP85662A	3144A20514	29/05/98
EM009	QUASI PEAK ADAPTOR	HP	HP85650A	3303A01702	29/05/98
EM010	RF PRESELECTOR	HP	HP85685A	3221A01410	29/05/98
EM011	ATTENUATOR/SWITCH	HP	HP11713A	2508A10595	29/05/98
EM012	PRE-AMPLIFIER	HP	HP8449B	3008A00262	29/05/98
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE	HP HP HP	HP9000 HPA1097C HP9133L	6226A60314 3151J39517 2623A02468	CM
EM017	ANTENNA	ARA INC.	LPB-2513/A	1069	31/12/97
EM072	SIGNAL GENERATOR	HP	8640B	1948A11892	30/03/98
EM083	HKSTC OPEN AREA TEST SITE	HKSTC	N/A	N/A	16/02/98

#### ABBREVIATIONS:

CM = Corrective Maintenance

N/A = Not Applicable

TBD = To be determine