

**M. Flom Associates, Inc. - Global Compliance Center**

3356 North San Marcos Place, Suite 107, Chandler, Arizona 85225-7176

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Date: May 29, 2003

Federal Communications Commission
Via: Electronic Filing

Attention: Authorization & Evaluation Division

Applicant: Telonics Inc.
Equipment: MK9A
FCC ID: JYLMK9A
FCC Rules: Radiofrequency Radiation Exposure Limits
47 CFR 1.1310
MPE - Mobiles x Fixed Based Station

Gentlemen:

On behalf of the Applicant, enclosed please find the Supplemental Test Data Report, the whole for Environmental Assessment (MPE) of the referenced equipment as shown.

We trust the same is in order. Should you need any further information, kindly contact the writer who is authorized to act as agent.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'M. Flom P. Eng.', with a horizontal line drawn underneath the signature.

Morton Flom, P. Eng.

enclosure(s)
cc: Applicant
MF/cva



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ENVIRONMENTAL ASSESSMENT

for

MOBILES/FIXED BASE STATION

for

FCC ID: FCC ID: JYLMK9A

Model:MK9A

to

FEDERAL COMMUNICATIONS COMMISSION

47 CFR 1.1310 (MPE)

Radiofrequency Radiation Exposure Limits

DATE OF REPORT: May 29, 2003

ON THE BEHALF OF THE APPLICANT:

Telonics Inc.

AT THE REQUEST OF:

P.O. 52842

Telonics Inc.
932 E. Impala Avenue
Mesa, AZ 85204-6699

Attention of:

David Beaty, Managing Director
email: dave@telonics.com
(480) 892-4444 ext. 122; FAX: -9139
and/or Timo Hansen, Electrical Engineer
email: timo@telonics.com
(480) 892-4444 ext. 135; FAX: -9139

SUPERVISED BY:

A handwritten signature in black ink, reading "M. Flom P. Eng.", is written over a horizontal line.

Morton Flom, P. Eng.

TABLE OF CONTENTS

<u>RULE</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
	Test Report	1
	Identification of the Equipment Under Test	2
	Standard Test Conditions and Engineering Practices	4
1.1310	Environmental Assessment	5

PAGE NO. 1 of 5.

Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

- a) TEST REPORT (SUPPLEMENTAL)
- b) Laboratory: M. Flom Associates, Inc.
(FCC: 31040/SIT) 3356 N. San Marcos Place, Suite 107
(Canada: IC 2044) Chandler, AZ 85225
- c) Report Number: d0350068
- d) Client: Telonics Inc.
932 E. Impala Avenue
Mesa, AZ 85204-6699
- e) Identification: MK9A
FCC ID: JYLMK9A
Description: Non-broadcast transmitter
- f) EUT Condition: Not required unless specified in individual tests.
- g) Report Date: May 29, 2003
EUT Received: May 14, 2003
- h, j, k): As indicated in individual tests.
- i) Sampling method: No sampling procedure used.
- l) Uncertainty: In accordance with MFA internal quality manual.
- m) Supervised by: 
Morton Flom, P. Eng.
- n) Results: The results presented in this report relate only to the item tested.
- o) Reproduction: This report must not be reproduced, except in full, without written permission from this laboratory.

PAGE NO.

2 of 5.

IDENTIFICATION OF THE EQUIPMENT UNDER TEST (EUT)NAME AND ADDRESS OF APPLICANT:

Telonics Inc.
932 E. Impala Avenue
Mesa, AZ 85204-6699

MANUFACTURER:

Applicant

FCC ID:

JYLMK9A

MODEL NO:

MK9A

DESCRIPTION:

Non-broadcast Transmitter

TYPE OF EMISSION:

6K25F1D

FREQUENCY RANGE, MHz:

151.820
151.880
151.940
154.570
154.600

POWER RATING, Watts:

 Switchable Variable x N/A

MODULATION:

 AMPS
 TDMA
 CDMA
 x OTHER

ANTENNA:

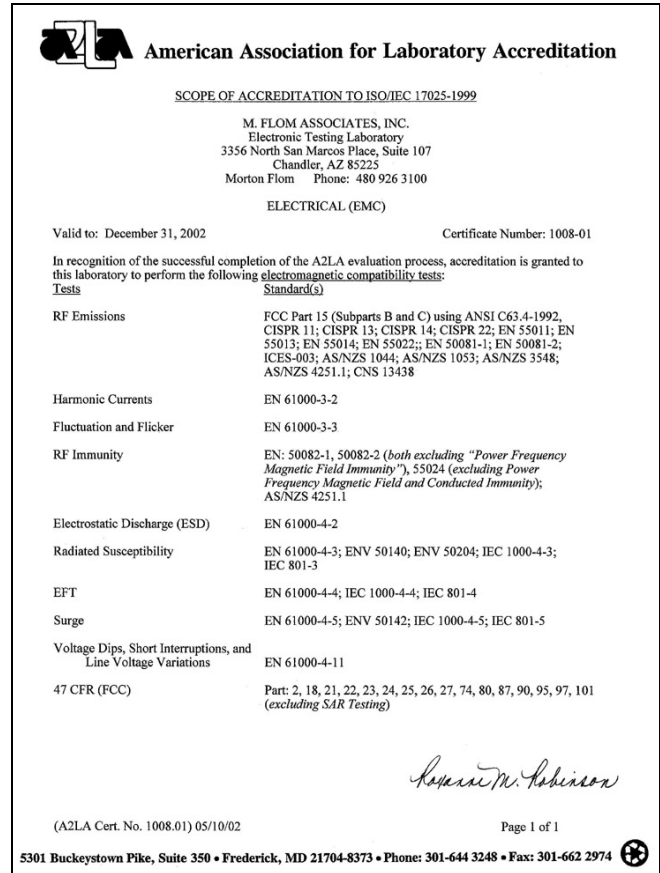
 HELICAL
 MONOPOLE
 WHIP
 x OTHER

NOTE: For RF Safety test antenna gain taken at the upper range of expected gain (i.e. 0 dBd) and RF Power set to highest nominal power across all channels.

PAGE NO.

3 of 5.

M. Flom Associates, Inc. is accredited by the American Association for Laboratory Accreditation (A2LA) as shown in the scope below.



"This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report."

Should this report contain any data for tests for which we are not accredited, or which have been undertaken by a subcontractor that is not A2LA accredited, such data would not covered by this laboratory's A2LA accreditation.

PAGE NO.

4 of 5.

STANDARD TEST CONDITIONS
and
ENGINEERING PRACTICES

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-1992/2000, section 6.1.9, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst case measurements.

PAGE NO. 5 of 5.

Name of test: Environmental Assessment - R.F. Radiation Exposure

Specification: FCC: 47 CFR 1.1310

CALCULATED MPE

FREQUENCY = 151.820 MHz

R.F. Power Output = 20 mw, Maximum, Pulsed

R.F. Power + Antenna Gain = 20 mw + 0 dBd

Limit = 0.2 mw/cm^2

Tested Distance = Rm

= $[0.020 / (12.56 \times 0.2)]^{1/2}$

= 0.089 cm

PERFORMED BY:



Morton Flom, P. Eng.

(The following will be placed in the Instruction Manual)

MANDATORY SAFETY INSTRUCTIONS TO INSTALLERS & USERS

Use only manufacturer or dealer supplied antenna.

Antenna Minimum Safe Distance: 0.089 cm .

Antenna Gain: zero dBd referenced to a dipole.

The Federal Communications Commission has adopted a safety standard for human exposure to RF (Radio Frequency) energy which is below the OSHA (Occupational Safety and Health Act) limits.

Antenna Mounting: The antenna supplied by the manufacturer or radio dealer must not be mounted at a location such that during radio transmission, any person or persons can come closer than the above indicated minimum safe distance to the antenna i.e. 0.089 cm.

To comply with current FCC RF Exposure limits, the antenna must be installed at or exceeding the minimum safe distance shown above, and in accordance with the requirements of the antenna manufacturer or supplier.

Base Station Installation: The antenna should be fixed-mounted on an outdoor permanent structure. RF Exposure compliance must be addressed at the time of installation.

Antenna Substitution: Do not substitute any antenna for the one supplied or recommended by the manufacturer or radio dealer. You may be exposing person or persons to excess radio frequency radiation. You may contact your radio dealer or the manufacturer for further instructions.

WARNING: Maintain a separation distance from the antenna to a person(s) of at least 0.089 cm .

You, as the qualified end-user of this radio device must control the exposure conditions of bystanders to ensure the minimum separation distance (above) is maintained between the antenna and nearby persons for satisfying RF Exposure compliance. The operation of this transmitter must satisfy the requirements of Occupational/Controlled Exposure Environment, for work-related use. Transmit only when person(s) are at least the minimum distance from the properly installed, externally mounted antenna.

TESTIMONIAL
AND
STATEMENT OF CERTIFICATION

THIS IS TO CERTIFY THAT:

1. THAT the application was prepared either by, or under the direct supervision of, the undersigned.
2. THAT the technical data supplied with the application was taken under my direction and supervision.
3. THAT the data was obtained on representative units, randomly selected.
4. THAT, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.

CERTIFYING ENGINEER:

A handwritten signature in black ink, reading "M. Flom P. Eng.", with a horizontal line drawn underneath the signature.

Morton Flom, P. Eng.