

## SALT SPRAY TEST REPORT

Company : Alltek Marine Electronics Corp.  
Address : 7F, No. 605, Ruei Guang Rd., Neihu Dist., Taipei 114,  
Taiwan, R.O.C.  
Sample Name : PLOMO-500  
Date Received : MAY 15, 2011  
Date Tested : MAY 15, 2011 ~ JUL 13, 2011

### TESTING LABORATORY IS ACCREDITED BY:

IEC/IECQ 17025 certificate of independent test laboratory approval

Certificate No. : T1091

ISO 17025 accredited in respect of laboratory is approved by TAF

Certificate No. : L0835-090819

ISO 9001 certificate is approved by TUV CERT certification body of TUV NORD Cert GmbH

### WE HEREBY CERTIFY THAT:

The test(s) shown in the attachment were conducted according to the indicating procedures. We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all personnel performing them.

	Name	Signature	Date
Test Engineer	Vincent Hung	<i>Vincent Hung</i>	Jul 27, 2011
Manager	General Lee	<i>General</i>	Jul 27, 2011

### **NOTE :**

1. This report will be invalid if reproduced in part or altered in any way.
2. This report refers only to the specimen(s) submitted to test, and is invalid if used otherwise.
3. This report is ONLY valid with the examination seal and signature of this institute.
4. The tested specimen(s) will only be preserved for thirty days from the date issued, if not collected by the applicant.



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## 1. GENERAL INFORMATION

### 1.1 DESCRIPTION OF UNIT

Manufacturer : Alltek Marine Electronics Corp.

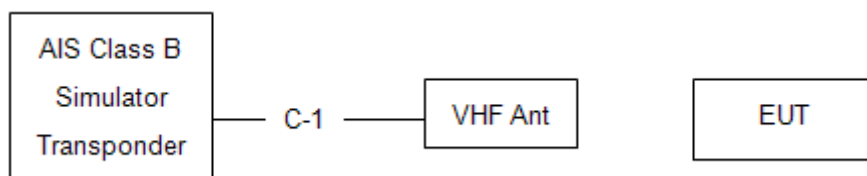
Sample name : PLOMO-500

Hardware : M-PCB-SARTV03

Software : SART Ver. 1.1

Sample quantity : 1 unit

### 1.2 UNIT OPERATING CONDITION:



Cable Type		Signal Cable description
C-1	VHF cable	Shielded, 0.3m

## 2. SALT SPRAY TEST

### 2.1 TEST EQUIPMENT

Model	Serial Number	Calibration Date
KSON THS-D7H±150	2367	JAN. 18, 2011
Vötsch VSC/KWT 1000	59566059630010	NOV. 08, 2010

### 2.2 LABORATORY AMBIENCE CONDITION

Temperature : 23±3°C

Relative humidity : 55%±3% (RH)

### 2.3 REFERENCE DOCUMENT

The test based on IEC 60068-2-52.

### 2.4 TEST CONDITION

#### 2.4.1 Salt spray

Unit is non-operating.

Test temperature : 35°C

Concentration : Salt solution concentration is at 5 ±1% of salt. The solution is prepared by dissolving 5 ±1% of salt in 95% of distilled water. The measurement is based on the weight of salt.

Salt solution pH value : 6.5 ~ 7.2 at temperature 25°C±2°C

Salt deposit rate : 1~2 mls/80 cm<sup>2</sup> /hr

#### 2.4.2 Temp./Humidity storage

Place the unit into the temperature chamber

Test temperature storage : 40°C

Test Humidity storage : 93% (RH)

**Test cycle : Dwell for 2 hours at the salt spray; Dwell for 6days and 22 hours at the humidity storage**

**Number of cycles : 4 cycles**

### 2.5 SUMMARY OF TEST

After testing, visual inspection showed no physical defect or functional degradation of unit. (Please see Attachment 3 on page 6~8)

**Attachment 1 : Photo of units before salt spray test**



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## Attachment 2 : Photo of salt spray test setup

**Salt spray**

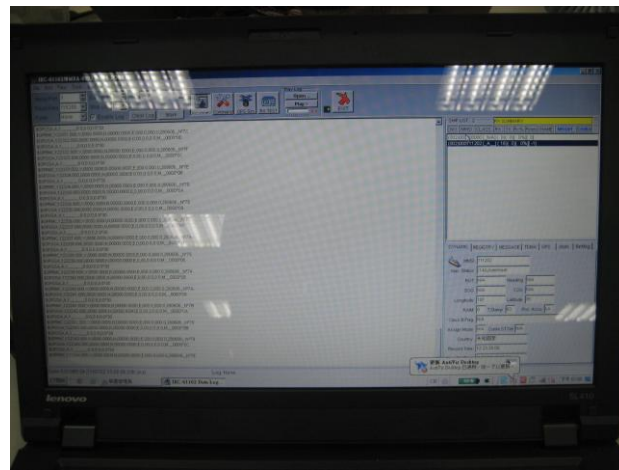


**Temp./Humidity storage**



### Attachment 3 : Photo of units after salt spray test

Function was normal





**Appearance was normal**







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#### Attachment 4 : Graph of temp./humidity storage test

