



## TEST REPORT

Report No. : 11-07-EAT-054-E00  
Applicant : ALLIS COMMUNICATIONS CO., LTD.  
Address : 10-3Fl., No. 31-1, Lane 169, KangNing St., HsiChih  
District, New Taipei City, Taiwan  
Commodity : GPS ANTENNA  
Model : M type  
Quantity : 6 pcs  
Date of Receipt : Jul. 14, 2011  
Testing Item : 1. Thermal shock test  
2. Vibration test

Testing Laboratory Name : Electronics Testing Center, Taiwan  
Address : No. 8, Lane 29, Wenming Rd., Guishan Shiang, Taoyuan  
County, Taiwan 33383  
TEL:03-3280026  
FAX:03-3276127  
<http://www.etc.org.tw>



Tested by :  
(Signature)

Alan Hsu

Approved by :  
(Signature)

Sophia Liu

Contents : Total 6 pages

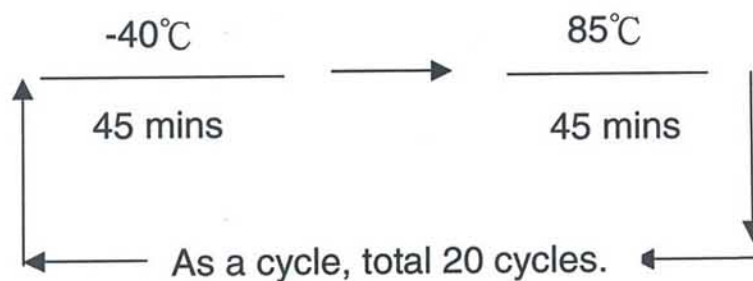
Note: 1. The results of the testing report relate only to the items tested.

2. The testing report shall not be reproduced except in full, without the written approval of ETC.

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Testing Conditions : According to applicant's specifications.

1. Thermal shock test



Sample No. : 1~3

Sample condition : Refer to Fig. 1

Test setup : Refer to Fig. 2



Fig. 1 : Sample condition



Fig. 2 : Thermal shock test

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## 2. Vibration test

Sample No. : 3~6

Sample condition : Non-operating (Refer to Fig. 3 ~ 8)

Waveform : Sine wave

Frequency : 10 ~ 150 ~ 10 Hz

Sweep time : 8 min

Amplitude : 1.5 mm (10 ~ 18.2 Hz)

Acceleration : 1 g (18.2 ~ 150 Hz)

Direction : X, Y, Z (3 axis)

Duration : 160 min / axis, total 480 min



Fig. 3 : Vibration test (Z)

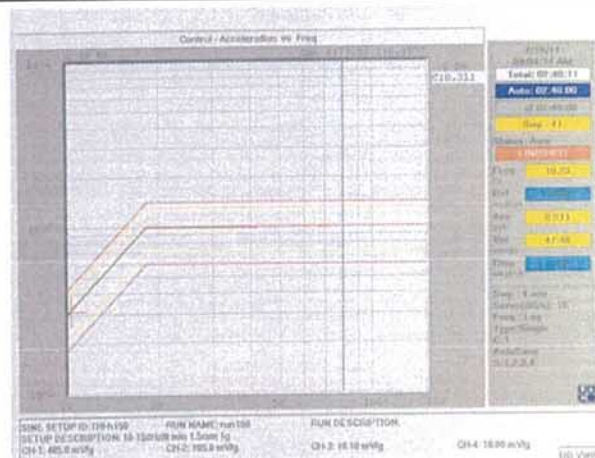


Fig. 4 : Testing curve of vibration test (Z)



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Fig. 5 : Vibration test (X)

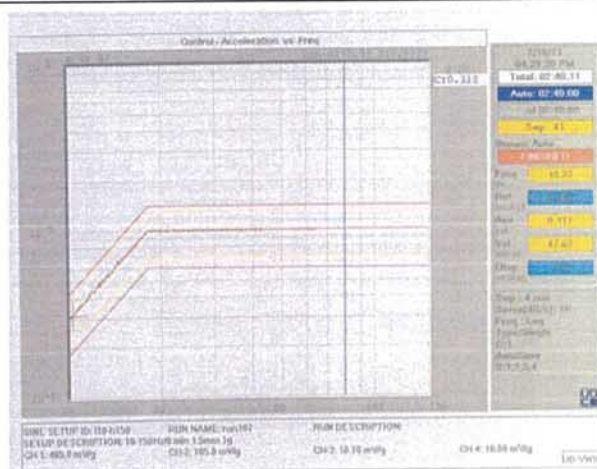


Fig. 6 : Testing curve of vibration test (X)



Fig. 7 : Vibration test (Y)

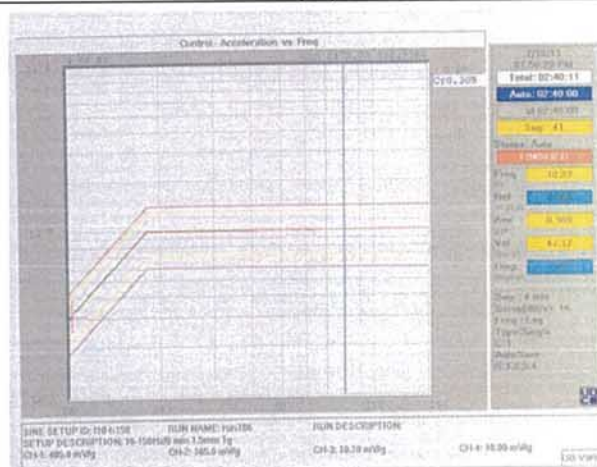


Fig. 8 : Testing curve of vibration test (Y)

## Testing Equipment :

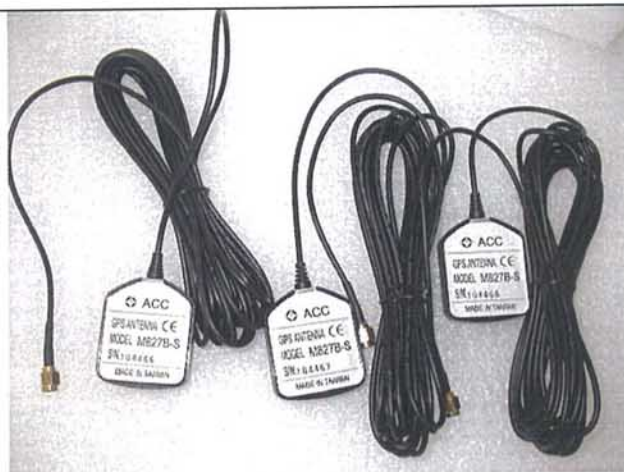
Name	Model	Cal. Date	Due Date
Thermal Shock Chamber	ESPEC TSA-71H	Oct. 15, 2010	Oct. 14, 2011
Vibration Test System	UD SA15-S452/ST	Sep. 29, 2010	Sep. 28, 2011

Report No.: 11-07-EAT-054-E00

### 1. Thermal shock test

Measure environment : Temp. 25°C/ R.H. 53~54%

Sample No.	Functional check	Visual inspection	Remark
1	Be checked by the applicant	No damage	Fig. 9
2	Be checked by the applicant	No damage	
3	Be checked by the applicant	No damage	



**Fig. 9 : Sample condition after thermal shock test**



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## 2. Vibration test

Date of testing : Jul. 18, 2011

Measure environment : Temp. 26°C / R.H. 61%

Sample No.	Functional check	Visual inspection
3	Be checked by the applicant	No damage
4	Be checked by the applicant	No damage
5	Be checked by the applicant	No damage
6	Be checked by the applicant	No damage

~ END OF REPORT ~