



Certificate No. : L0144-210525

財團法人全國認證基金會  
Taiwan Accreditation Foundation

## Certificate of Accreditation

This is to certify that

**The Environmental Engineering and Testing Sec. System  
Development Center, NCSIST**

**Environment and Reliability Test Laboratory**

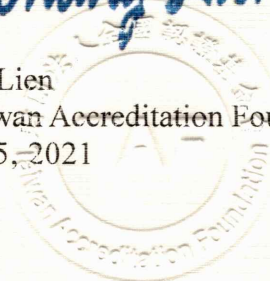
No. 481, Chia-An Sec., Chung-Cheng Rd., Chia-An Vil., Lung-Tan Dist., Tao-Yuan City 325,  
Taiwan (R.O.C.)

**is accredited in respect of laboratory**

**Accreditation Criteria** : ISO/IEC 17025:2017 ; CNS 17025:2018  
**Accreditation Number** : 0144  
**Originally Accredited** : June 01, 1994  
**Effective Period** : June 07, 2021 to June 06, 2024  
**Accredited Scope** : Testing Field, see described in the Appendix

*Ching-Chang Lien*

Ching-Chang Lien  
President, Taiwan Accreditation Foundation  
Date : May 25, 2021





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Laboratory Head : HSU, Chun-Ping

19.02 Electronic and Electric  
Electronic and Mechanical Hardware  
E003 Reliability-UNDEX lightweight shock tests  
MIL-S-901D  
MIL-DTL-901E

The total weight supported by the lightweight shock machine anvil plate shall not exceed 550 pounds. Equipment is mounted on or incorporates isolation devices that have a deflection capability under shock loading of 1.5 inches or more in any direction. The heights of drop hammer are 1, 3, and 5 feet.

Approval Signatory: LEE, Hsin-Tsrong; HUANG, Pei-Jan

E003 Reliability-UNDEX medium weight shock tests  
MIL-S-901D  
MIL-DTL-901E

The total weight supported by the medium weight shock machine anvil table shall not exceed 7400 pounds. Equipment is mounted on or incorporates isolation devices that have a deflection capability under shock loading of 3 inches or more in any direction. The heights of drop hammer are according to the total weights on the anvil table and refer to TABLE I of 3.1.8.2 in MIL-S-901D or TABLE V of 3.1.8.2 in MIL-DTL-901E.

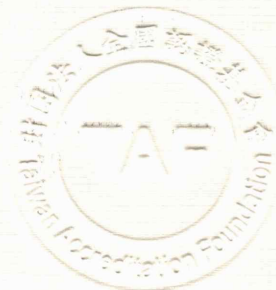
Approval Signatory: LEE, Hsin-Tsrong; HUANG, Pei-Jan

E003 Reliability-High temperature tests  
MIL-STD-810G 501 Proc. I, II  
Temperature:  $\leq +125$  °C

Approval Signatory: LEE, Hsin-Tsrong; HUANG, Pei-Jan

E003 Reliability-Temperature cycling tests  
MIL-STD-810G 501 Proc. I, II  
MIL-HDBK-2164A  
Temperature: -54 °C to +125 °C

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E003 Reliability-Low temperature tests  
MIL-STD-810G 502 Proc. I, II  
Temperature:  $\geq -54\text{ }^{\circ}\text{C}$

Approval Signatory: LEE, Hsin-Tsrong; HUANG, Pei-Jan

E003 Reliability-Thermal shock tests  
MIL-STD-810G 503 Proc. I  
Temperature:  $-54\text{ }^{\circ}\text{C}$  to  $+80\text{ }^{\circ}\text{C}$

Approval Signatory: LEE, Hsin-Tsrong; HUANG, Pei-Jan

E003 Reliability-Rain tests  
MIL-STD-810G 506 Proc. II, III  
Proc. II: Nozzle pressure: 276 kPa  
Proc. III: Dip rate  $\geq 280\text{ l/m}^2/\text{hr}$

Approval Signatory: LEE, Hsin-Tsrong; HUANG, Pei-Jan

E003 Reliability-Salt spray tests  
MIL-STD-810G 509  
Salt Solution specific gravity: 1.010 to 1.040  
Temperature:  $+35\text{ }^{\circ}\text{C}$

Approval Signatory: LEE, Hsin-Tsrong; HUANG, Pei-Jan

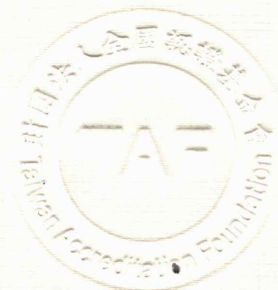
E003 Reliability-Acceleration tests  
MIL-STD-810G 513 Proc. I, II  
rpm value: 20 rpm to 75 rpm

Approval Signatory: LEE, Hsin-Tsrong; HUANG, Pei-Jan

E003 Reliability-Shock tests  
MIL-STD-810G 516 Proc.I, II, III, IV, V  
Proc. I, II, III, V: Max. G value: 400 G  
Proc. IV: Drop height  $\leq 122\text{ cm}$

Approval Signatory: LEE, Hsin-Tsrong; HUANG, Pei-Jan

E003 Reliability-Gunfire Shock tests  
MIL-STD-810G 519 Proc. III  
Vibration level: Max. 10 G  
Frequency: 10 Hz to 2 kHz





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E003 Reliability-Temperature-humidity tests  
MIL-STD-810G 520 Proc. I, II, III  
MIL-STD-810G 507 Proc. I, II  
Temperature: -54°C to +95°C  
Humidity: 15 %RH to 95 %RH

Approval Signatory: LEE, Hsin-Tsong; HUANG, Pei-Jan

E003 Reliability-Temperature-vibration tests  
MIL-STD-810G 520 Proc. I, II, III  
Temperature: -10°C to +71°C  
Vibration level: Max.10 G Frequency: 5 Hz to 3 kHz

Approval Signatory: LEE, Hsin-Tsong; HUANG, Pei-Jan

E003 Reliability-Temperature-altitude tests  
MIL-STD-810G 520 Proc. I, II, III  
MIL-STD-810G 500 Proc. I, II  
Temperature: -54°C to +71°C  
Altitude: 10 mbar to site atmospheric pressure

Approval Signatory: LEE, Hsin-Tsong; HUANG, Pei-Jan

E003 Reliability-Temperature-Vibration of shipboard equipment tests  
MIL-STD-810G 528 Proc.I  
Vibration level: Max. 3 G peak  
Frequency: 4 Hz to 50 Hz

Approval Signatory: LEE, Hsin-Tsong; HUANG, Pei-Jan

19.02 Electronic and Electric  
Electronic and Mechanical Hardware  
E003 Reliability-Vibration tests  
MIL-STD-810G 514 Proc. I, IV  
MIL-HDBK-2164A  
Vibration level: Max.10 G peak, Frequency: 5 Hz to 3k Hz

Approval Signatory: LEE, Hsin-Tsong; HUANG, Pei-Jan

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P4, total 4 pages

