



# IEC QUALITY ASSESSMENT SYSTEM (IECQ)

For rules and details of the IECQ visit [www.iecq.org](http://www.iecq.org)

## Schedule of Scope to Certificate of Approval Independent Testing Laboratory

IECQ Certificate No.: IECQ-L ULTW 21.0001

CB Certificate No.: 50600378 ITL

Schedule Number: IECQ-L ULTW 21.0001-S

Rev No.: 4

Revision Date: 2025/01/16

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### Appendix-1 (50600378 ITL)

### Schedule of Scope to Certificate of Approval

Description test	Standard
I-V Probe station	WI-LM-0120
InGaAs microscope/Optical Beam Induced Resistance Change (OBIRCH)	WI-LM-0121
Scanning Acoustic Tomography (SAT)	WI-LM-0333
2D X-ray	WI-LM-0364
Secondary Electron Microscope (SEM)	WI-LM-0302
Reactive Ion Etching(RIE)	WI-LM-0306
3D Optical Microscope (3D OM)	WI-LM-0359
ION MILLING SYSTEM (CP)	WI-LM-0358
Laser Decap	WI-LM-0363
Electrostatic Discharge (ESD) /Latch-up (Heating by Thermo stream)	HBM: ANSI/ESDA/JEDEC JS-001 ; AEC-Q100-002 ; MIL-STD-883 MM: JED22-A115 ; AEC-Q100-003 CDM: ANSI/ESDA/JEDEC JS-002 ; JESD22-C101 ; AEC-Q100-011 Latch up: JESD78 ; AEC-Q100-004
High Temperature Operating Life (HTOL)	JEDEC-22A-108 AEC-Q100;AEC-Q101;AEC-Q200
Early Life Failure Rate (ELFR)	JESD74 AEC-Q100;AEC-Q104

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DQS-Group - DQS Taiwan Inc., Feng Yuan Dist., Taichung City, Taiwan





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Description test	Standard
High Temperature Storage test (HTST)	JEDEC-22A-103
Low Temperature Storage test (LTST)	IEC 60068-series MIL-STD-810; MIL-STD-883 AEC-Q100;AEC-Q101;AEC-Q200
Temperature and Humidity test (THT)	IEC 60068-series MIL-STD-810;MIL-STD-883 AEC-Q100;AEC-Q101;AEC-Q200
Highly Accelerated Stress test (HAST)	JEDEC-22A-110 MIL-STD-810/883 AEC-Q100;AEC-Q101;AEC-Q200
Accelerated Moisture Resistance-Unbiases (Unbiased HAST)	JEDEC-22A- 118 MIL-STD-810;MIL-STD-883 AEC-Q100;AEC-Q101;AEC-Q200
Pressure Cooker test (PCT)	JEDEC-22A-102
Temperature and Humidity with Bias test (THB)	JEDEC-22A-101 MIL-STD-810/883 AEC-Q100;AEC-Q101;AEC-Q200
Precondition test / Moisture Sensitivity Level	JEDEC-J-STD-020
Reflow	JEDEC-J-STD-020 JEDEC22-B102
Solderability (SD)	IPC-J-STD-002D
Solder ball shear	JESD22-B117
Scanning Acoustic Tomography(SAT)	IPC/JEDEC J-STD-035;IPC/JEDEC J-STD-020
Precondition test / Moisture Sensitivity Level (MSL)	IPC/JEDEC J-STD-020 ,JESD22-A113

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Description test	Standard
Thermal Shock Test (TST)	JESD22-A106
Power and Temperature Cycle(PTC)	JESD22-A105
Low Temperature OperatingLife (LTOL)	JESD22-A108 ; AEC-Q100 ; AEC-Q101 ; AEC-Q200
Bias Life Test (BLT)	JESD22-A108
Early Failure Rate (EFR)	JESD22-A108 ; JESD78 ; AEC-Q100 ; AEC-Q200
TCT (Temperature Cycling Test)	JESD22-A104

Technical Reviewer of DQS: Paul Yang Date: 01/16/2025

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