



Test Engineering (TE) BU

About Valingro Group

- Valingro Group facilitates, develops & build Enterprises girded by Values
- Creating Companies concentrating on Global Competitiveness, leveraging global Opportunities, Acquiring global capabilities
- Philosophy: Business Beyond Profit
- Long-Term Value-Added Partnership Business Model

About ChipTest

- An associate of Valingro, ChipTest is an IC Test Company
- Established in 2005, ChipTest has 2 Core BUs: Test Engineering and Wisteria
- Over 30+ Years of Test Engineering Business Experience
- Operations in India, Singapore & Malaysia

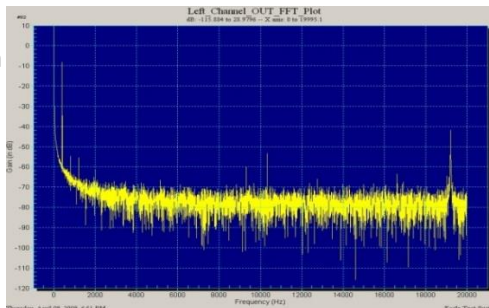
Services

- Test Plan Derivation for New Silicon Products
- Turnkey Hardware & Software development
- ATE Test Program Generation & Debug
- Product Characterization & Correlation
- Program Conversions between platforms
- Engineering to Production Integration
- Onsite Test Engineering Support
- Dedicated Customer Offshore Test Centres (OTC)
- Bench Validation of NPI products
- Vector Conversion - Design Files to ATE Format
- Customers – IDM, Fabless, Start-up, Subcon
- USP – Dedicated Teams, Fast Time to Market



Process Flow

- Product Design documents / Datasheet Review
- Test Methodology & Limits Tabulation
- Test Hardware Schematics, Layout and Gerber Generation
- Test Hardware Fabrication and Assembly
- ATE Test Program Code Development
- Multi-site Test Program & Hardware Debug
- Test Data Correlation & Statistical Analysis
- Electrical, Thermal and process Characterization
- Qualifications – FMEA, Site to Site, Spike Checks, etc
- GRR Verification & Capability Studies
- Test Time Optimization
- Product Qualification - ESD/LU/HTOL/HAST/ TMCL/ACL/Mechanical



Solutions Driven By Knowledge



Capabilities

- Advantest 93K, T2000 IPSE, IPS
- Teradyne ETS 800 / 364 / 88, J750, iFLEX, UltraFLEX
- LTXC ASL1K
- Custom Built Testers
- Offline Simulators for all ATEs
- ATE Remote Login Access
- Bench Power Supplies, Oscilloscopes, V/I Meters, Thermo stream & Others
- Gravity Feed, Pick & Place, Turret & Map Handlers and Probers
- Start-up Customers – Turnkey from Post Silicon to Manufacturing
- IDM Customers – Development to Manufacturing Release

Expertise

- Mixed Signal ASIC, System On Chip - SoC, Power Management PMIC products
- Automotive, Industrial Analog & Communication, Integrated Passive - RCD Networks & Filter products
- High Voltage / High Current & Low Voltage / Low Current Handling
- High Speed AWG / Digitizer Handling with DSP Commands & Data Analysis
- ATPG / Functional / Scan Vectors Handling & Scripting Skills
- Multi-site Cable Dock & Direct Dock Production Solutions
- Over 100 years of cumulative experienced Test Engineers
- Case Studies – DDR Power Controllers, Multiphase Controllers, Battery Chargers, LED Charge Pump Drivers, etc
- Case Studies – A/V Decoders, DSP Controllers, Micro Controllers, etc
- Case Studies – DC/DC Controllers, High Power Switch, Regulators, High Performance Amplifiers, Audio / Video Filters, etc

