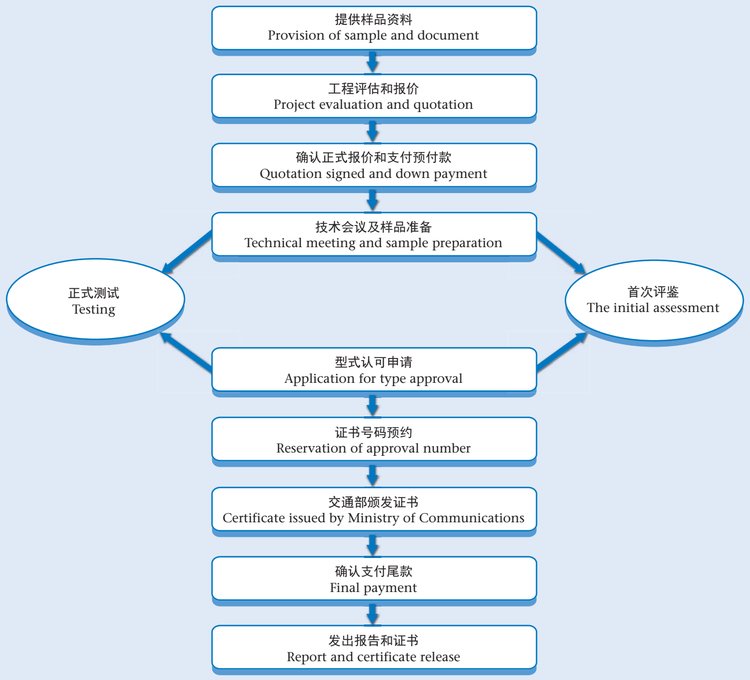
产品认证服务流程
Product certification service process



关于德国莱茵TÜV集团　About TÜV Rheinland Group

总部位于德国科隆的德国莱茵TÜV集团拥有140多年的经验。
德国莱茵TÜV集团是国际上领先的技术服务供应商，它在全球65个国家设有500家分支机构，拥有超过17,000名员工，服务涵盖工业服务、交通服务、产品服务、生命科学、培训与咨询服务以及体系认证服务。

TÜV Rheinland Group has more than 140 years of experience and is headquartered in Cologne. TÜV Rheinland Group is a leading group for the provision of technical services worldwide. It has 500 locations in 65 countries with a workforce of over 17,000. The business scope covers Industrial Services, Mobility, Products, Life Care, Training and Consulting, Systems.

TÜVRheinland®
Precisely Right.

德国莱茵TÜV大中华区
TÜV Rheinland Greater China
服务热线 Hotline
4008831300/8009993668
+852 21921022 (中国香港 Hongkong)

service-gc@tuv.com
www.tuv.com

P1SB049zhenGC130811.0

汽车电子电器部件电磁兼容测试和认证服务
Automotive EMC Testing and Homologation Services

www.tuv.com

TÜVRheinland®
Precisely Right.

抵抗干扰，让驾驶更安全
Resistance to interference, make driving safer

随着电子技术的不断发展，电子电器新技术越来越多地应用到汽车领域，因此电磁兼容成为汽车行业越来越重要的考量因素。车内电器部件电磁兼容包含电子电器系统对外界环境的电磁干扰控制和抗干扰能力以及车内各个电子装置和电子控制系统之间的电磁干扰和抗干扰相互适应。为了保证汽车可靠性，设计师必须在早期设计阶段将电磁兼容的规范要求纳入考虑，分析和评估可能会遇到的电磁兼容性问题。

With the continued development of electrical and electronic technology, increasingly more of it has been applied to the automotive field, which requires various electronic devices and control systems to adapt to each other and achieve electromagnetic compatibility (EMC). To ensure vehicle reliability, EMC regulations and requirements must be taken into consideration at the early design stage.

德国莱茵TÜV，您值得信赖的合作伙伴
TÜV Rheinland is your reliable partner

- 我们的电磁兼容实验室拥有先进的测试设备
- 拥有技能高超并经验丰富的工程师
- 拥有全面的资质认可
- 我们能够配合和协助整车厂商以及部件供应厂商对产品进行评估和测试
- 我们能够协助国内国际的车辆及电子零部件的生产厂商和出口商，改善产品的电磁兼容性能，使之符合车厂的要求和对口主管部门的规范要求

- Our EMC laboratory is equipped with state-of-the-art testing equipment
- We have highly skilled and experienced engineers
- We have fully accreditations and recognitions
- We are dedicated to offering professional EMC testing services for automotive electronics and electrical components
- Our integrated EMC testing services help both domestic and international vehicle/ESA manufacturers and exporters to improve EMC performance and comply with the regulations and requirements of car manufacturers and government agencies

我们的服务
Our services

- 验证试验：按照整车厂商的要求，对汽车零部件进行电磁兼容测试和评估
- 认证服务：欧盟和联合国欧洲经济委员会要求的E mark认证
- 咨询服务：产品开发设计及整改阶段的技术支持

- Validation test services: EMC testing and evaluation according to the OEM requirements
- Homologation services: E mark homologation per the requirements of the European Union and United Nations Economic Commission
- Consulting services: technical support during the development and debugging stages

我们的测试能力
Our capabilities

我们可以根据国际及区域电磁兼容标准（ISO，CISPR，SAE等）或者各主流车厂的电磁兼容要求对各种车内电子电器部件、系统、子系统进行测试。测试项目包含：

- 辐射骚扰
- 传导骚扰
- 电磁辐射抗扰度
- 大电流注入
- 传导瞬态骚扰
- 传导瞬态抗扰度
- 低频磁场骚扰
- 低频磁场抗扰度
- 手持无线通讯设备抗扰度
- 静电抗扰度
- 各车厂的其他电磁兼容测试要求

We conduct tests according to international and regional EMC standards (ISO, CISPR, SAE) and the EMC requirement of mainsteam vehicle manufacturers for various electrical/electronic components and subsystem. Test items include the following:

- Radiated emission
- Conducted emission
- Radiated immunity (radiated susceptibility)
- Bulk current injection
- Conducted transient emission
- Conducted transient immunity
- Low magnetic field emission
- Low magnetic field immunity
- Handy transmitter immunity (portable transmitter immunity)
- Electrostatic discharge immunity
- Other EMC test items required by OEMs

我们的资质和认可
Qualifications and approval

- 符合欧洲经济委员会规章的实验室
- 欧盟电磁兼容指令的公告机构
- 欧盟无线与通信终端指令的公告机构
- 德国技术认证机构DAkkS认可实验室
- 中国国家认证认可监督管理委员会CNAS认可实验室
- 多个车厂认可实验室

- ECE recognised lab
- Notified Body under EMC directive
- Notified Body under the R&TTE directive
- DAkkS accreditation recognised lab
- CNAS accreditation recognised lab
- Automotive OEM recognised labs

我们的服务流程
Our service procedure

委托测试、车厂要求测试服务流程
General process for commissioning and OEM requirement tests