

验证报告

编号: TSNEC2201965002

日期: 2022年09月15日 第1页,共10页

客户名称: 北京鸿基点科技发展有限公司
 客户地址: 中国北京市朝阳区大郊亭中街2号院3号楼7层
 样品名称: 压力变送器
 型号: PG101
 生产厂家: 鸿宝时(三河)科技有限公司
 以上样品及信息由客户提供。

SGS工作编号: TP22-006093 - TJ
 样品接收日期: 2022年07月19日
 验证周期: 2022年07月19日 - 2022年09月14日
 验证要求: 参考欧盟RoHS指令2011/65/EU的修正指令(EU) 2015/863。
 验证方法: 请参见后续页。
 验证结果: 请参见后续页。

检测结果总结

检测项目	结论
欧盟RoHS指令2011/65/EU附录II修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs) 和邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)	通过

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Jason Li 李忠号
 批准签署人

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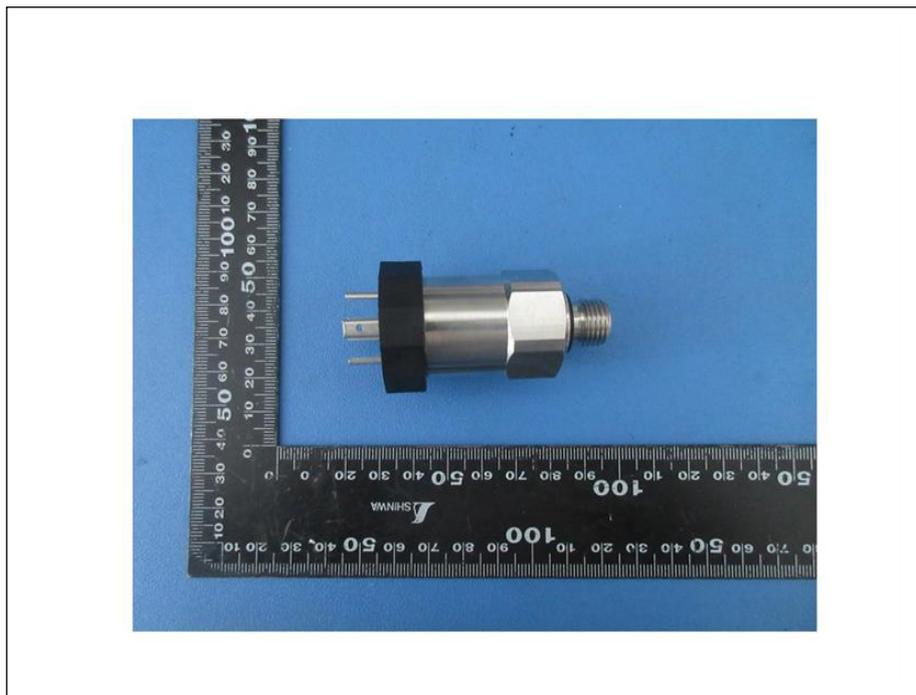


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样品照片



验证方法:

1. 参考IEC 62321-2:2021, 拆分申请者提供的成品。
2. 参考IEC 62321-1:2013, 仅对本报告照片中标识的样品进行了下列检测分析。
 - (1) 参考IEC 62321-3-1: 2013, 用能量色散型X射线荧光分析仪器进行筛选。
 - (2) 湿法化学检测方法: 参考IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, ISO 17075-1:2017, IEC 62321-6:2015和IEC 62321-8:2017, 采用ICP-OES, UV-Vis和GC- MS进行分析。

验证部件外观描述:

样品序号	样品编号	SGS 样品ID	样品描述
SN1	A1	TSN22-019650.001	银色金属
SN2	A2	TSN22-019650.002	黑色塑料
SN3	A3	TSN22-019650.003	银色金属
SN4	A4	TSN22-019650.004	黑色橡胶
SN5	A5	TSN22-019650.005	银色金属
SN6	A6	TSN22-019650.006	黑色橡胶
SN7	A7	TSN22-019650.007	银色金属焊锡



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样品序号	样品编号	SGS 样品ID	样品描述
SN8	A8	TSN22-019650.008	黑色二极管
SN9	A9	TSN22-019650.009	铜色金属
SN10	A10	TSN22-019650.010	黑色塑料
SN11	A11	TSN22-019650.011	白色固体胶
SN12	A12	TSN22-019650.012	白色塑料
SN13	A13	TSN22-019650.013	银色金属
SN14	A14	TSN22-019650.014	黑色橡胶
SN15	A15	TSN22-019650.015	银色金属
SN16	A16	TSN22-019650.016	黑色固体胶
SN17	A17	TSN22-019650.017	铜色金属
SN18	A18	TSN22-019650.018	银色金属焊锡
SN19	A19	TSN22-019650.019	银色金属
SN20	A20	TSN22-019650.020	黑色塑料热缩管
SN21	A21	TSN22-019650.021	银色金属
SN22	A22	TSN22-019650.022	白色陶瓷
SN23	A23	TSN22-019650.023	PCB上的红色塑料线皮
SN24	A24	TSN22-019650.024	PCB上的银色金属线芯
SN25	A27	TSN22-019650.027	PCB上的黑色塑料线皮
SN26	A28	TSN22-019650.028	PCB上的黑色塑料线皮
SN27	A29	TSN22-019650.029	PCB上的银色金属线芯
SN28	A33	TSN22-019650.033	PCB上的黄色塑料线皮
SN29	A34	TSN22-019650.034	PCB上的蓝色塑料线皮
SN30	A35	TSN22-019650.035	PCB上的红色塑料线皮
SN31	A36	TSN22-019650.036	银色金属螺栓
SN32	A37	TSN22-019650.037	铜色金属螺栓
SN33	A38	TSN22-019650.038	白色陶瓷
SN34	A44	TSN22-019650.044	PCB上的黑色芯片本体
SN35	A45	TSN22-019650.045	PCB上的黑色芯片本体
SN36	A46	TSN22-019650.046	PCB上的银色金属焊锡



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 t (86-22) 65288000

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样品序号	样品编号	SGS 样品ID	样品描述
SN37	A47	TSN22-019650.047	蓝色PCB



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验证结果:

除特别标注, 单位均为: mg/kg

检测项目	A1	A2	A3	A4	A5	A6	A7	A8
Pb	ND	BL	BL	BL	BL	BL	BL	OL▲
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	ND	BL	ND	BL	ND	BL
PBBs	---	ND	---	BL	---	BL	---	BL
PBDEs	---	ND	---	BL	---	BL	---	BL
DBP	---	ND	---	ND	---	ND	---	ND
BBP	---	ND	---	ND	---	ND	---	ND
DEHP	---	ND	---	ND	---	ND	---	ND
DIBP	---	ND	---	ND	---	ND	---	ND
结论	符合	符合	符合	符合	符合	符合	符合	符合

检测项目	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL							
Cd	BL							
Hg	BL							
Cr(VI)▼	BL	BL	BL	BL	ND	BL	ND	ND
PBBs	---	BL	BL	BL	---	BL	---	BL
PBDEs	---	BL	BL	BL	---	BL	---	BL
DBP	---	ND	ND	ND	---	ND	---	BL
BBP	---	ND	ND	ND	---	ND	---	BL
DEHP	---	ND	ND	ND	---	ND	---	BL
DIBP	---	ND	ND	ND	---	ND	---	BL
结论	符合							

检测项目	A17	A18	A19	A20	A21	A22	A23	A24
Pb	BL							
Cd	BL							
Hg	BL							
Cr(VI)▼	ND	ND	ND	BL	ND	BL	BL	BL
PBBs	---	---	---	BL	---	---	BL	---



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检测项目	A17	A18	A19	A20	A21	A22	A23	A24
PBDEs	---	---	---	BL	---	---	BL	---
DBP	---	---	---	ND	---	---	ND	---
BBP	---	---	---	ND	---	---	ND	---
DEHP	---	---	---	ND	---	---	ND	---
DIBP	---	---	---	ND	---	---	ND	---
结论	符合							

检测项目	A27	A28	A29	A33	A34	A35	A36	A37
Pb	BL	33100 [▲]						
Cd	BL							
Hg	BL							
Cr(VI)▼	BL	BL	BL	BL	BL	BL	ND	BL
PBBs	BL	BL	---	BL	BL	BL	---	---
PBDEs	BL	BL	---	BL	BL	BL	---	---
DBP	ND	ND	---	BL	BL	BL	---	---
BBP	ND	ND	---	BL	BL	BL	---	---
DEHP	ND	204	---	BL	BL	BL	---	---
DIBP	ND	ND	---	BL	BL	BL	---	---
结论	符合							

检测项目	A38	A44	A45	A46	A47
Pb	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	BL	BL
PBBs	---	BL	BL	---	ND
PBDEs	---	BL	BL	---	ND
DBP	---	BL	BL	---	ND
BBP	---	BL	BL	---	ND
DEHP	---	BL	BL	---	ND
DIBP	---	BL	BL	---	ND
结论	符合	符合	符合	符合	符合

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备注:

(1) X 射线荧光光谱法(XRF)筛选结果说明:

(a) 下表为 IEC62321-3-1: 2013 附录 A 不同基体材料中以 mg/kg 表示的筛选元素限值:

元素	聚合物	金属	复合材料
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	不适用	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(b) 现行法规限制的最大允许值是对 PBB/PBDE 和 Cr(VI) 而不是对 Br 和 Cr 的, 而 XRF 测定的是 Br 和 Cr。

如果元素 Br 和或 Cr 的定量结果均高于限值(Br 计算基于在常见物质中 PBB/PBDE 的组成的理论计算), 则样品的筛选结果为“不确定”。

(c) EDXRF 的结果用于初步筛选, LOD=检出限, BL=低于限值, OL=超出限值, IN (符号“X”标记的区域)=不确定, 需要进一步研究, 我们建议客户用更精确的化学检测方法检测样品, 如用 ICP-OES 检测 Cd/Pb/Hg; 用 UV-Vis 检测 Cr(VI); 用 GC-MS 检测 PBBs/PBDEs。

(d) 对于复合材料, EDXRF 筛选检测 RoHS 元素所得数据可能与样品中实际含量不同。

(2) 邻苯二甲酸酯(PHTH)筛分结果只作初步筛选, 如果检测结果超出下表所规定的警戒范围, 我们采用更精确的化学检测方法检测样品, 用 GC-MS 检测 DBP、BBP、DEHP 和 DIBP (单位: mg/kg)。

检测项目	CAS No.	聚合物/复合材料
邻苯二甲酸二丁酯 (DBP)	84-74-2	$BL \leq 600 < X$
邻苯二甲酸丁苄酯 (BBP)	85-68-7	$BL \leq 600 < X$
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	$BL \leq 600 < X$
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	$BL \leq 600 < X$

(3) 化学检测方法结果说明:

(a) $mg/kg = 0.0001\%$, MDL=方法检测限, ND =未检出(低于 MDL), --- =不适用。

(b) 化学检测方法的表达单位和方法检测限

检测项目	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
单位	mg/kg						
方法检测限	10	10	10	100	100	100	100

任何一种 PBBs 和 PBDEs 的方法检测限是 100mg/kg;

聚合物, 复合材料和皮革样品中 Cr(VI)的方法检测限是 10mg/kg。

金属样品中 Cr(VI)的方法检测限是 0.10 μ g/cm²。

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(c) ▼ =金属样品中

- a. 当六价铬的浓度高于 0.13µg/cm²时, 样品为阳性, 即含有六价铬;
- b. 当六价铬的浓度为 ND (低于 0.10µg/cm²) 时, 样品为阴性, 即未检测到六价铬;
- c. 当六价铬的浓度介于 0.10µg/cm²与 0.13µg/cm²之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

(4) RoHS 指令中限制物质及均质材料中最大允许浓度值: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs /DEHP/DBP/BBP/DIBP: 0.1%, 限值引用自 RoHS 指令(EU) 2015/863。

(5) IEC 62321 系列等同于 EN 62321 系列。

(6)▲根据客户提供的声明, 编号A8中的铅(Pb)被欧盟RoHS指令2011/65/EU豁免, 相应豁免条文(请以英文原文为准) |ANNEX III 7(c)-II: 电子电气元件中玻璃或陶瓷材料(电容中陶瓷介质除外)所含的铅, 如压电设备、玻璃或陶瓷复合元件。

▲根据客户提供的声明, 编号A37中的铅(Pb)被欧盟RoHS指令2011/65/EU豁免, 相应豁免条文(请以英文原文为准) |ANNEX III 6(c)|: 铜合金中的铅含量不得超过4%。

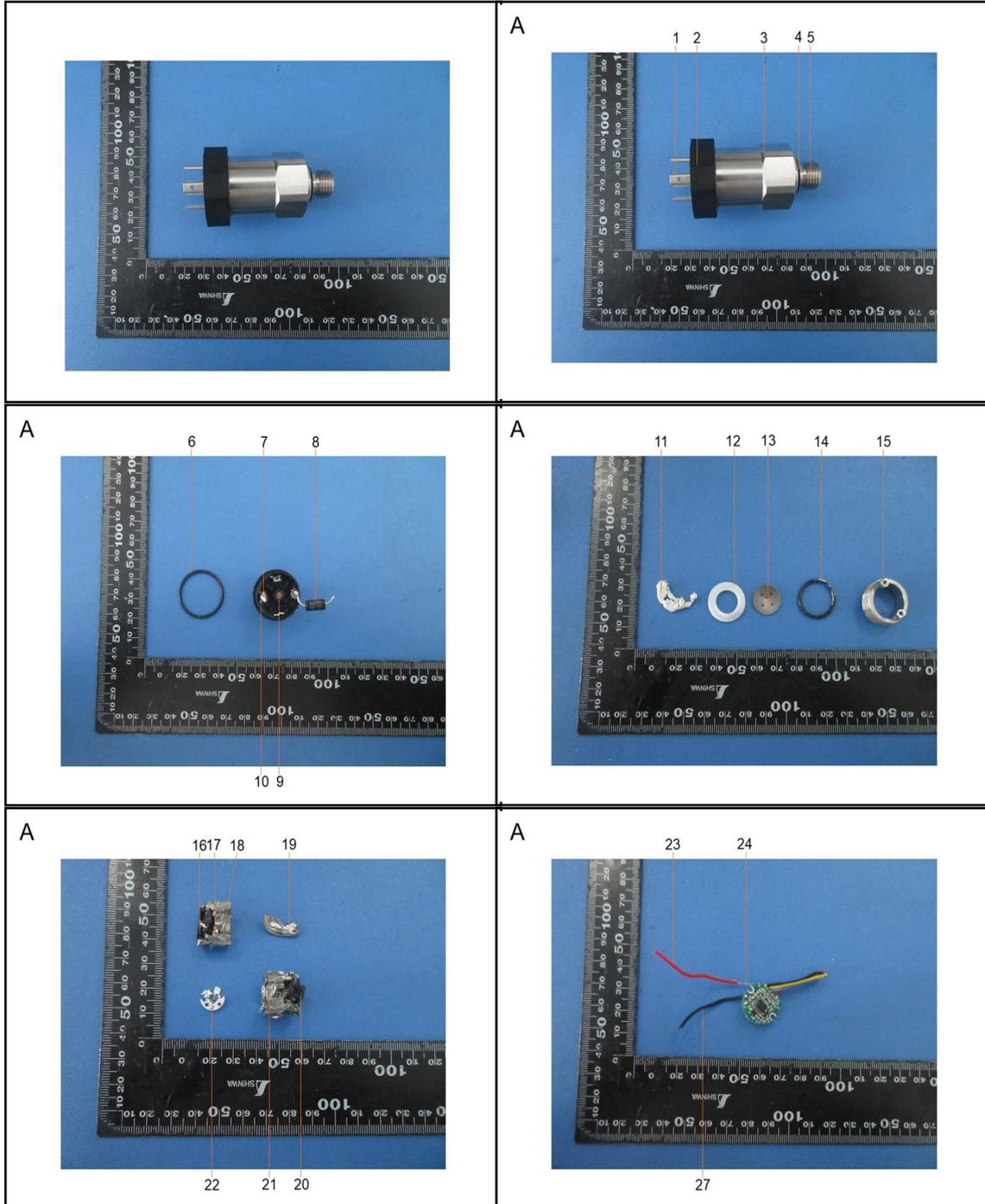
除非另有说明, 参照ILAC-G8:09/2019, 使用简单接受 ($w=0$) 的二元判定规则进行符合性判定。
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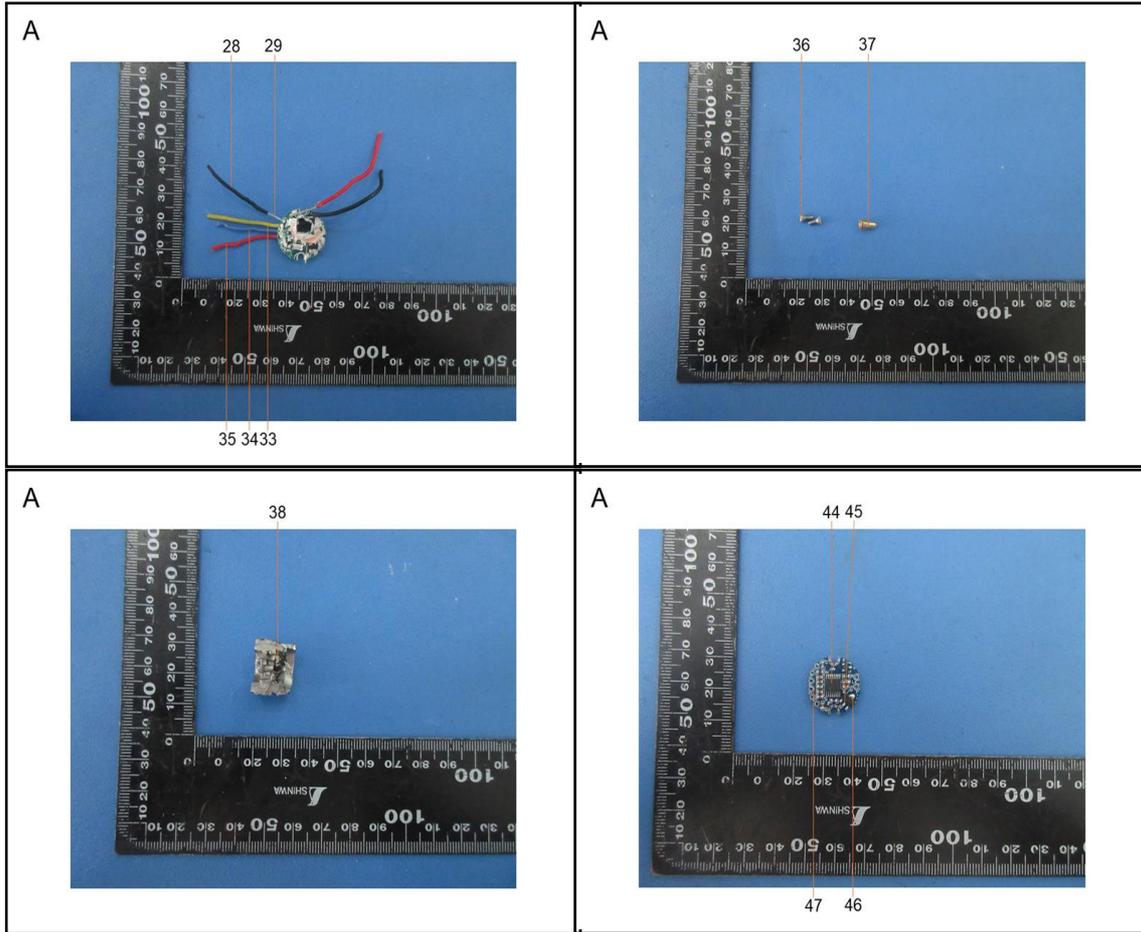
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SGS Mansion, No.41, The 5th Avenue TEDA, Tianjin, China 300457 t (86-22) 65288000 www.sgsgroup.com.cn
 中国·天津市经济技术开发区第五大街41号SGS大厦 邮编: 300457 t (86-22) 65288000 sgs.china@sgs.com



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SGS Mansion, No.41, The 5th Avenue TEDA, Tianjin, China 300457
 中国·天津市经济技术开发区第五大街41号SGS大厦 邮编: 300457

t (86-22) 65288000 www.sgs.com
 t (86-22) 65288000 sgs.china@sgs.com