



Workplace Air 工作场所空气		
Sample 样品	Supplied as 基质	Target Analyte(s) 分析物
<b>1# - Metals</b> 金属	4 x spiked membrane filters 25mm Ø 4 个 25mm Ø 加标膜过滤器	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Lead; Zinc 镉; 铬; 钴; 铜; 铁; 锰; 镍; 铅; 锌
<b>1A* - Metals</b> 金属	4 x spiked cassette capsules 37mm Ø 4 个 37mm Ø 加标胶囊盒式过滤器	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Lead; Zinc 镉; 铬; 钴; 铜; 铁; 锰; 镍; 铅; 锌
<b>1B* - Metals</b> 金属	4 x spiked membrane filters 37mm Ø 4 个 37mm Ø 加标膜过滤器	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Lead; Zinc 镉; 铬; 钴; 铜; 铁; 锰; 镍; 铅; 锌
<b>1C* - Metals</b> 金属	4 x spiked Zefon DIS filter inserts 25mm Ø 4 个 25mm Ø 加标 Zefon DIS 过滤器插件	Cadmium; Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Lead; Zinc 镉; 铬; 钴; 铜; 铁; 锰; 镍; 铅; 锌
<b>2X - Direct</b> Measurement of Quartz by XRD XRD 法直接测定石英	4 x dynamically loaded PVC GLA5000 filters 25mm Ø 4 个 25mm Ø 的动态加载 PVC GLA5000 过滤器	Respirable grade quartz by XRD (by <u>direct</u> analysis of filters supplied) XRD 分析可吸入石英 (通过直接分析提供的过滤器)
<b>2F - Direct</b> Measurement of Quartz by FTIR 红外光谱法直接测定 石英	4 x dynamically loaded PVC GLA5000 filters 25mm Ø 4 个 25mm Ø 的动态加载 PVC GLA5000 过滤器	Respirable grade quartz by FTIR (by <u>direct</u> analysis of filters supplied) 红外光谱法分析可吸入石英 (通过直接分析提供的过滤器)
<b>2I - Indirect</b> Measurement of Quartz by XRD or FTIR XDR 法和红外光谱法 间接测定石英	4 x dynamically loaded PVC GLA5000 filters 25mm Ø 4 个 25mm Ø 的动态加载 PVC GLA5000 过滤器	Respirable grade quartz by either XRD or FTIR (by <u>indirect</u> analysis, i.e. by ashing and redeposition onto analytical filter or by KBr disc) XDR 和红外光谱法分析可吸入石英 (通过直接分析, 比如灰 化后重新沉积于分析过滤器或圆盘状溴化钾)
<b>3** - Dust</b> 灰尘	4 x spiked glass fibre filters 25mm Ø 4 个 25mm Ø 的加标玻璃纤维过滤器	Dust by gravimetry (mass of solids) 重量法测定粉尘(固体质量)
<b>4** - Dust</b> 灰尘	4 x spiked glass fibre filters 37mm Ø 4 个 37mm Ø 的加标玻璃纤维过滤器	Dust by gravimetry (mass of solids) 重量法测定粉尘(固体质量)
<b>5 - VOCs</b> 挥发性有机污染物	4 x dynamically loaded charcoal sorbent tubes (workplace air levels) 4 个动态加载木炭吸收管(工作场所空气 水平)	Benzene; Toluene; Xylene; Ethyl benzene 苯; 甲苯; 二甲苯; 乙苯
<b>6 - VOCs</b> 挥发性有机污染物	4 x dynamically loaded charcoal sorbent tubes (workplace air levels) 4 个动态加载木炭吸收管(工作场所空气 水平)	1,1,1-Trichloroethane; n-Hexane; n-Butyl acetate; Tetrachloroethene; Trichloroethylene 1, 1, 1-三氯乙烷; 正己烷; 醋酸正丁酯; 四氯乙烯; 三氯 乙烯
<b>7 - VOCs</b> 挥发性有机污染物	4 x spiked Tenax thermal desorption tubes (workplace air levels) 4 个加标 Tenax 热解吸管(工作场所空气 水平)	Benzene; Toluene; Xylene; Ethyl benzene 苯; 甲苯; 二甲苯; 乙苯
<b>8 - Aldehydes</b> 醛类	4 x spiked glass fibre filters 25mm Ø 4 个 25mm Ø 的加标玻璃纤维过滤器	Formaldehyde; Acetaldehyde 甲醛; 乙醛
<b>9 - Cr (VI)</b> 六价铬	4 x spiked NaOH treated Millipore PVDF filters 25mm Ø 4 个加标 NaOH 微孔处理的 PVDF 过滤 器	Chromium (VI) 六价铬
<b>10A* - Metals***</b> 金属	1 x bulk welding fume sample 1 个块状焊接烟尘样品	Chromium; Cobalt; Copper; Iron; Manganese; Nickel; Zinc 铬; 钴; 铜; 铁; 锰; 镍; 锌

<b>10B*</b> - Lead 铅	1 x bulk lead-containing dust sample 1 个块状含铅粉尘样品	Lead 铅
<b>16*</b> - Diesel fume 柴油机烟气	4 x dynamically loaded quartz fibre filters 25mm Ø 4 个 25mm Ø 动态加载石英纤维过滤器	Elemental carbon 碳元素
<b>18*</b> - Beryllium 铍	4 x spiked mixed cellulose ester filter 37mm Ø 4 个 37mm Ø 加标混合纤维素酯过滤器	Beryllium 铍
<b>19*</b> - Cr (VI) <b>NEW</b> 六价铬	1 x bulk chromate-containing welding fume or paint dust sample 1 个含有焊接烟尘或油漆粉尘的块状铬 酸盐样品	Chromium (VI) 六价铬

\*For sample 1, the manganese measurand is not currently included in LGC's UKAS scope of accreditation.

\*Please note that these samples are not currently within the scope of LGC's UKAS accreditation.

\*\*Filters are despatched to participants in order for them to weigh and then should be returned to LGC Standards Bury for spiking. LGC Standards Bury then re-send the spiked filters back to the participants for reweighing. Please see page 5 for further details.

\*\*表示：过滤器被寄送给参与者以便进行称重，然后应该返回到 Bury 的 LGC 标准品部门进行加标。Bury 的 LGC 标准品部门将这些加标的过滤器重新寄送给参与者重新称重。详情请见第 5 页。

\*\*\*For sample 10A one or more of the listed elements will be included in each round.

\*\*\*表示：对于样本 10A，每一轮将包含一个或多个所列元素。

Ambient Air 环境空气		
Sample 样品	Supplied as 基质	Target Analyte(s) 分析物
<b>11</b> - NO <sub>2</sub> 二氧化氮	4 x dynamically loaded Palmes type diffusion tubes 4 个动态加载 Palmes 型扩散管	Nitrogen dioxide (as nitrite) 二氧化氮 (以亚硝酸盐计)
<b>12</b> - VOCs 挥发性有机污染物	4 x dynamically loaded Tenax thermal desorption tubes (ambient air levels) 4 个动态加载 Tenax 热解吸管(环境空气 水平)	Benzene; Toluene; Xylene; Ethyl benzene 苯; 甲苯; 二甲苯; 乙苯
<b>12A*</b> - VOCs 挥发性有机污染物	4 x dynamically loaded Carboxpack thermal desorption tubes (ambient air levels) 4 个动态加载 Carboxpack 热解吸管(环境 空气水平)	Benzene; Toluene; Xylene; Ethyl benzene 苯; 甲苯; 二甲苯; 乙苯
<b>13*</b> - Metals 金属	4 x spiked quartz fibre filters 47mm Ø 4 个 47mm Ø 加标石英纤维过滤器	Antimony <b>NEW</b> ; Arsenic, Cadmium; Nickel; Lead 锑 <b>NEW</b> ; 砷; 镉; 镍; 铅
<b>14</b> - Anions on filters 过滤器上的负离子	4 x spiked quartz fibre filters 47mm Ø 4 个 47mm Ø 加标石英纤维过滤器	Chloride; Nitrate; Sulfate 氯化物; 硝酸盐; 硫酸盐
<b>17*</b> - Dust** 灰尘**	4 x spiked quartz fibre filters 47mm Ø 4 个 47mm Ø 加标石英纤维过滤器	Dust by gravimetry (mass of solids) 重量法测定粉尘(固体质量)

\*Please note that these samples are not currently within the scope of LGC's UKAS accreditation.

\*\*Filters are despatched to participants in order for them to weigh and then should be returned to LGC Standards Bury for spiking. LGC Standards Bury then re-send the spiked filters back to the participants for reweighing. Please see page 5 for further details.

\*\*表示：过滤器被寄送给参与者以便进行称重，然后应该返回到 Bury 的 LGC 标准品部门进行加标。Bury 的 LGC 标准品部门将这些加标的过滤器重新寄送给参与者重新称重。详情请见第 5 页。

Indoor/Chamber Air 室内空气		
Sample 样品	Supplied as 基质	Target Analyte(s) 分析物
<b>21</b> - VOCs (Material Emission Testing)	4 x dynamically loaded Tenax thermal desorption tubes at	Benzene; n-Hexane; Toluene; Butyl acetate; MIBK; Cyclohexanone; p-Xylene; Diacetyl <sup>#</sup> ; Phenol; 124-TMB;

LGC Proficiency Testing, 1 Chamberhall Business Park, Chamberhall Green, Bury, BL9 0AP, UK.

E-mail: [CNCS@lgcgroup.com](mailto:CNCS@lgcgroup.com), Web: [www.lgcstandards.com](http://www.lgcstandards.com)

授权代理：安特百科（北京）技术发展有限公司 网址：[www.antpedia.com/lgcpt](http://www.antpedia.com/lgcpt) 400-6699-117 转 228

QQ: 2850412340、2850412316

挥发性有机污染物 (物质排放测试)	chamber air levels 4 个动态加载 Tenax 热解吸管在室内 空气水平	Limonene; 4-PCH; Dodecane 苯; 正己烷; 甲苯; 乙酸丁酯; 甲基异丁基酮; 环己酮; 对二 甲苯; 二乙酰; 苯酚; 124-四甲基联苯胺; 柠檬烯; 4-苯基环己 烯; 十二烷
22*** - VOCs (Qualitative determination) 挥发性有机物 (定 性)	2 x dynamically loaded Tenax thermal desorption tubes at chamber air levels 2 个动态加载 Tenax 热解吸管在室内 空气水平	Qualitative determination of VOCs including alcohol, aliphatic, aromatic, ester, halocarbon and terpene compounds 酒精; 脂肪族; 芳香族; 酯类; 卤烃和萜烯类化合物等挥发性 有机化合物的定性测定

\*For sample 21, the diacetyl measurand is not currently included in LGC's UKAS scope of accreditation.

\*\*\*See Appendix B in the AIR PT Scheme Description for compound listing.

\*\*\*表示: 有关复合清单, 请参阅 AIR PT 方案说明中的附录 B。

Stack Emissions 烟囱排放		
Sample 样品	Supplied as 基质	Target Analyte(s) 分析物
31 - Mercury 汞	1 x potassium permanganate & sulfuric acid impinger solution containing mercury 1 个含汞溶液的高锰酸钾&硫酸冲击器	Volume; Mercury 体积; 汞
32 - Mercury 汞	1 x potassium dichromate & nitric acid impinger solution containing mercury 1 个含汞溶液的重铬酸钾&硝酸冲击器	Volume; Mercury 体积; 汞
33 - Metals 金属	1 x nitric acid impinger solution containing up to 6 trace metals 1 个含有 6 种微量金属溶液的硝酸冲击器	<b>AR037</b> - Volume; As; Cr; Cu; Pb; Ni; Tl (体积; 砷; 铬; 铜; 铅; 镍; 铊) <b>AR039</b> - Volume; Sb; Cd; Co; Mn; Se <b>NEW</b> ; V (体 积; 锑; 镉; 钴; 锰; 硒 <b>NEW</b> ; 钒) <b>AR040</b> - Volume; Sb; Cd; Co; Mn; Ni; V (体积; 锑; 镉; 钴; 锰; 镍; 钒) <b>AR041</b> - Volume; As; Cr; Cu; Pb; Se <b>NEW</b> ; Tl (体 积; 砷; 铬; 铜; 铅; 硒 <b>NEW</b> ; 铊)
34 - Sulfur dioxide 二氧化硫	1 x hydrogen peroxide impinger solution containing SO <sub>2</sub> 1 个含二氧化硫溶液的过氧化氢冲击器	Volume; Sulfur dioxide 体积; 二氧化硫
35 - Hydrogen fluoride 氟化氢	1 x sodium hydroxide impinger solution containing HF 1 个含氟化氢溶液的氢氧化钠冲击器	Volume; Hydrogen fluoride 体积; 氟化氢
36 - Hydrogen chloride 氯化氢	1 x aqueous impinger solution containing hydrogen chloride 1 个含氯化氢溶液的水溶液冲击器	Volume; Hydrogen chloride 体积; 氯化氢
37 - Ammonia 氨	1 x sulfuric acid impinger solution containing ammonia 1 个含氨溶液的硫酸冲击器	Volume; Ammonia 体积; 氨
38* - Metals 金属	1 x quartz filter spiked with up to 6 trace elements and fly ash 47mm Ø 1 个 47mm Ø 加标石英过滤器, 添加多 达 6 种微量元素和飞灰	<b>AR037</b> - As; Cr; Cu; Pb; Ni; Tl (砷; 铬; 铜; 铅; 镍; 铊) <b>AR039</b> - Sb; Cd; Co; Mn; Se <b>NEW</b> ; V (锑; 镉; 钴; 锰; 硒 <b>NEW</b> ; 钒) <b>AR040</b> - Sb; Cd; Co; Mn; Ni; V (锑; 镉; 钴; 锰; 镍; 钒) <b>AR042</b> - As; Cr; Cu; Pb; Se <b>NEW</b> ; Tl (砷; 铬; 铜; 铅; 硒 <b>NEW</b> ; 铊)
39* - Dust analysis (solution) 粉尘分析 (解决方 案)	1 x rinsing solution containing dissolved and suspended solids 1 个含有溶解固体和悬浮固体的冲洗液	Total solids 总固体含量

40 - Dust analysis (filter)** 粉尘分析 (过滤器)	4 x spiked quartz filters 47mm Ø 4 个 47mm Ø 加标石英过滤器	Dust analysis (mass of solids) 粉尘分析 (固体质量)
---	--	---

\*Please note that these samples are not currently within the scope of LGC's UKAS accreditation.

\*\*Please see overleaf for further details. \*\*表示: (请参阅下一页)

### Dust Filter Samples (3, 4, 17 and 40) Distribution Schedule

#### 粉尘过滤器样品(3、4、17、40)分配计划

For the dust filter samples (3, 4, 17 and 40), four filters are despatched to participants in order for them to weigh. Participants then ship the filters back to LGC Standards Bury for spiking. LGC Standards Bury re-send the spiked filters back to the participants for reweighing who then report the results (initial value; reweighing value; calculated difference) to LGC Standards Bury via PORTAL for assessment. Dust filter sample specific dates:

对于粉尘过滤器样品(3、4、17、40), 四个过滤器被寄送给参与者以供进行称重。然后, 参与者将过滤器寄送回 Bury 的 LGC 标准品部门进行加标。Bury 的 LGC 标准品部门将加标的过滤器重新寄送给参与者, 让参与者重新称重, 然后报告结果(初始值, 重新称重值, 计算差值)到 LGC 标准品的 PORTAL 系统中进行评估。粉尘过滤器样品具体日期:

Round 轮次	Despatch Date (week commencing) 发样日期 (周始)	Filters required back at LGC by 过滤器需要返还 LGC 的时间	Filters re-despatch date (week commencing) 过滤器重新发样日期 (周始)	Reporting Deadline 汇报截止时间
AR038	2020/5/04	2020/5/22	2020/6/22	2020/7/13
AR041	2020/11/16	2020/12/04	2021/1/04	2021/1/25

For details on the full technical specification of the scheme, please refer to the AIR Scheme Description.

Please fill in your address details below:

发送检测样品至: (中英文)	寄送发票至:
联系人姓名: 公司: 英文名称: 地址: 英文地址: 电话: 邮箱:	联系人姓名: 公司: 地址: 电话:

发送报告通知到:	开票信息:
联系人姓名: 邮箱#:	开票类型 (请选择): 增值税普通发票 ( ) ; 增值税专用发票 ( ) 开票抬头: 增值税税号: <b>增值税专用发票必填</b> 如果需要开具 '增值税专用发票', 请务必填写以下信息 开票地址: 开票银行: 开票帐号: 开票电话:

关于 LGC PT 质控样: LGC 提供先前轮次的能力验证剩余样品作为质控样, 您可以选择这些样品进行纠偏调查, 作为盲样来进行内部人员培训, 考核或进行其他内部质量控制活动。实验员的结果可以直接通过 PORTAL 系统来进行 Z 值评价, 并进行图表导出。



**关于 LGC PT 重复样:** 重复样是指当前轮次能力验证样品的复制样, LGC 的能力验证至多可以让 13 个人来参与并提交结果。如果您需要多人参加, 希望在进行能力验证时获得更多的样品量时, 以购买重复样是你最佳的选择。待能力验证结束后, 这些剩余的重复样就成为了质控样, 您可以参考能力验证主报告中提供的参数, 使用这些样品当做质控样来进行内部质量控制活动。

**如申请表内计划没有满足您的需求,请留下您的需求信息:**

能力验证计划需求			
基质	分析物	数量	其他要求
质控样品需求			
基质	分析物	数量	其他要求