



检测报告

TEST REPORT

委托单位名称 Client Name	惠伦晶体 Faith Long Crystal (YL)
产品名称 Name of product	石英晶体振荡器系列 Crystal Oscillator series
制造厂商 Manufacturer	----
型号 Model	OSC
检测类别 Test sort	委托检测 Commission Test



中检集团南方测试股份有限公司

CCIC Southern Testing Co.,Ltd.

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客户信息 Customer information	委托单位 Client	惠伦晶体 Faith Long Crystal (YL)
	地址 Address	广东省东莞市黄江镇/重庆市綦江区万盛街道 Huangjiang Town, Dongguan City, Guangdong Province/ Wansheng Street, Qijiang District, Chongqing City
样品信息 Sample information	样品名称 Name of sample	石英晶体振荡器系列 Crystal Oscillator series
	型号 Model	OSC
	生产企业 Factory	惠伦晶体 Faith Long Crystal (YL)
检测信息 Test information	收样日期 Sample Received	2025. 03. 24
	检测周期 Testing Period	2025. 03. 24~2025. 03. 31
	检测活动地点 Testing location	广东省东莞市洪梅镇望沙路洪梅段 125 号 1 号楼 Building 1, No.125, Hongmei Section, Wangsha Road, Hongmei Town,Dongguan City,Guangdong Province, China.
	检测类别 Test sort	委托检测 Commission Test
	检测项目 Item Requested	应客户要求, 依据 POPs 法规 (EU) 2019/1021 及其修订法规附件 I 30 项禁止物质清单及 2 项客户要求物质, 对送检样品进行检测 As specified by client, to screen Annex I List of 32 Substances under the POPs regulation (EU) 2019/1021 and its amendments and 2 Substances of client requirement , in the submitted sample(s).
	检测依据 Standard/Foundation	参考方法: EPA 3550C:2007, CEN/TS 15968:2010, 分析仪器: GC-MS, LC-MS-MS. With reference to EPA 3550C:2007, CEN/TS 15968:2010, and analysis was performed by GC-MS, LC-MS-MS.
备注 Remark	检测结论 Conclusion	见检测数据。 Please see the detecting data.

主检
Tested By:

Lu xue ling

审核
Checked By:

yan

批准
Approved By:

Xu Peng

日期 Date:

Apr. 02, 2025

日期 Date:

Apr. 02, 2025

日期 Date:

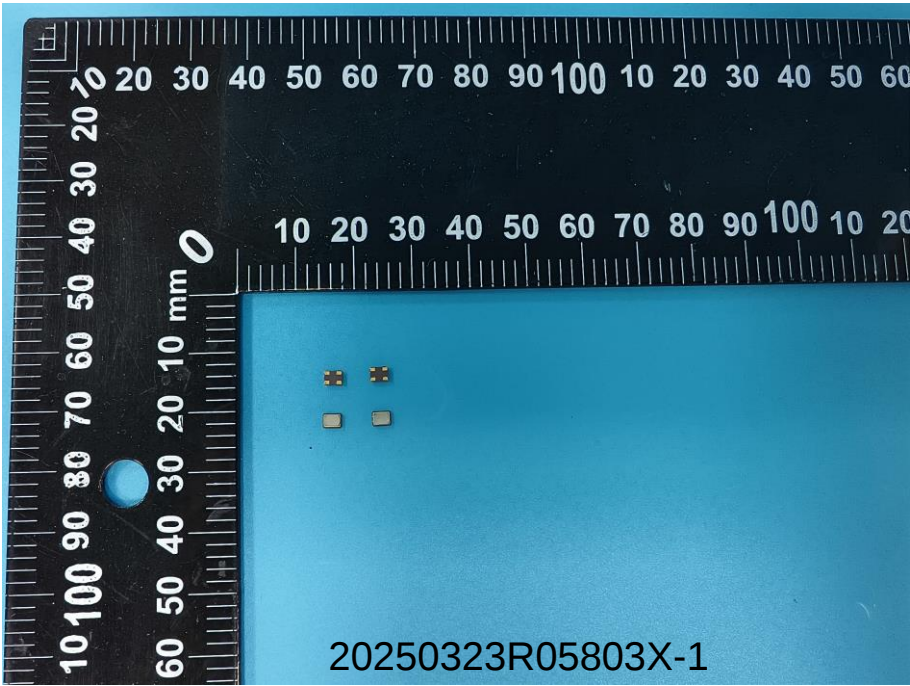
Apr. 02, 2025



样品描述 Tested components Description:

编号 Specimen No.	样品 ID Sample ID	描述 Description	项目 Item
1	20250323R05803X-1	整体测试 Overall test	详见下页 See next page

样品照片 Sample Photo:





检测结果 Test Results:

序号 No.	检测项目 Testing Item (s)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)	浓度 Concentration (mg/kg)
				1
1	四溴二苯醚 Tetrabromodiphenyl ether	5.0	≤10	N.D.
2	五溴二苯醚 Pentabromodiphenyl ether	5.0	≤10	N.D.
3	六溴二苯醚 Hexabromodiphenyl ether	5.0	≤10	N.D.
4	七溴二苯醚 Heptabromodiphenyl ether	5.0	≤10	N.D.
5	十溴二苯醚 Bis(pentabromophenyl) ether (decaBDE)	5.0	≤10	N.D.
---	多溴二苯醚总和 Sum of PBDEs	----	≤500	N.D.
6	全氟辛烷磺酸(PFOS)及其衍生物 ^{附录1} Perfluorooctane sulfonic acid (PFOS) and its derivatives Annex 1	0.01	物质或混合物≤10; 半成品、制品及其零件 <1000; 纺织品或涂层材料<1ug/m ² substances or mixtures ≤10; semi-finished products or articles, or parts thereof<1000; textiles or other coated materials<1ug/m ²	N.D.
7	2,2-双(4-氯苯基)-1,1,1-三氯乙烷 DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl)ethane)	1.0	禁用 Forbidden	N.D.
8	氯丹 Chlordane	1.0	禁用 Forbidden	N.D.
9	六氯环己烷, 包括林丹 Hexachlorocyclohexanes, including lindane	1.0	禁用 Forbidden	N.D.
10	狄氏剂 Dieldrin	1.0	禁用 Forbidden	N.D.
11	异狄氏剂 Endrin	1.0	禁用 Forbidden	N.D.



序号 No.	检测项目 Testing Item (s)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)	浓度 Concentration (mg/kg)
				1
12	七氯化萘 Heptachlor	1.0	禁用 Forbidden	N.D.
13	硫丹 Endosulfan	1.0	禁用 Forbidden	N.D.
14	六氯苯 Hexachlorobenzene	1.0	禁用 Forbidden	N.D.
15	十氯酮 Chlordecone	1.0	禁用 Forbidden	N.D.
16	艾氏剂 Aldrin	1.0	禁用 Forbidden	N.D.
17	五氯苯 Pentachlorobenzene	1.0	禁用 Forbidden	N.D.
18	多氯联苯 PCB Polychlorinated Biphenyls (PCB)	5.0	50	N.D.
19	灭蚁灵 Mirex	1.0	禁用 Forbidden	N.D.
20	毒杀芬 Toxaphene	1.0	禁用 Forbidden	N.D.
21	六溴联苯 Hexabromobiphenyl	5.0	禁用 Forbidden	N.D.
22	六溴环十二烷 Hexabromocyclododecane (HBCDD)	50.0	物质、混合物、物品≤75； 建筑或土木工程的 EPS、 XPS≤100 Substances, mixtures, materials≤75； EPS, XPS in construction or civil engineering≤100	N.D.
23	六氯丁二烯 Hexachlorobutadiene	5.0	禁用 Forbidden	N.D.
24	五氯苯酚及其盐类和酯类 Pentachlorophenol and its salts and esters	5.0	5	N.D.
25	多氯化萘 Polychlorinated Naphthalenes (PCNs)	5.0	禁用 Forbidden	N.D.



序号 No.	检测项目 Testing Item (s)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)	浓度 Concentration (mg/kg)
				1
26	短链氯化石蜡 Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	50.0	物质或混合物≤10000 成品<1500 substances or mixtures ≤10000 articles < 1500	N.D.
27	全氟辛酸(PFOA)及其盐 ^{附录 2} Perfluorooctanoic acid (PFOA) and its salts ^{Annex 2}	---	≤0.025	N.D.
	全氟辛酸(PFOA)相关物质 ^{附录 2} Perfluorooctanoic acid (PFOA) related compounds ^{Annex 2}	---	≤1.0	N.D.
28	三氯杀螨醇 Dicofol	1.0	禁用 Forbidden	N.D.
29	全氟己烷磺酸 (PFHxS) 及其盐 Perfluorohexane sulfonic acid (PFHxS) and its salts	0.01	物质或混合物≤0.025 将要使用或用于生产其他消防泡沫混合物的浓缩消防泡沫混合物中≤0.1 substances or mixtures ≤0.025 In a concentrated fire foam mixture to be used or used in the production of other fire foam mixtures≤0.1	N.D.
	全氟己烷磺酸 (PFHxS) 相关物质 Perfluorohexane sulfonic acid (PFHxS) related compounds	0.01	物质、混合物或物品≤1 将要使用或用于生产其他消防泡沫混合物的浓缩消防泡沫混合物中≤0.1 substances or mixtures≤1 In a concentrated fire foam mixture to be used or used in the production of other fire foam mixtures≤0.1	N.D.
30	甲氧滴滴涕 Methoxychlor	0.005	0.01	N.D.
31	UV-328	1	---	N.D.



序号 No.	检测项目 Testing Item (s)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)	浓度 Concentration (mg/kg)
				1
32	德克隆 Dechlorane Plus	1	---	N.D.

备注 Note:

-mg/kg=ppm

-MDL = 方法检出限 Method Detection Limit

-N.D. = 未检出 (<方法检出限) Not Detected (<MDL)

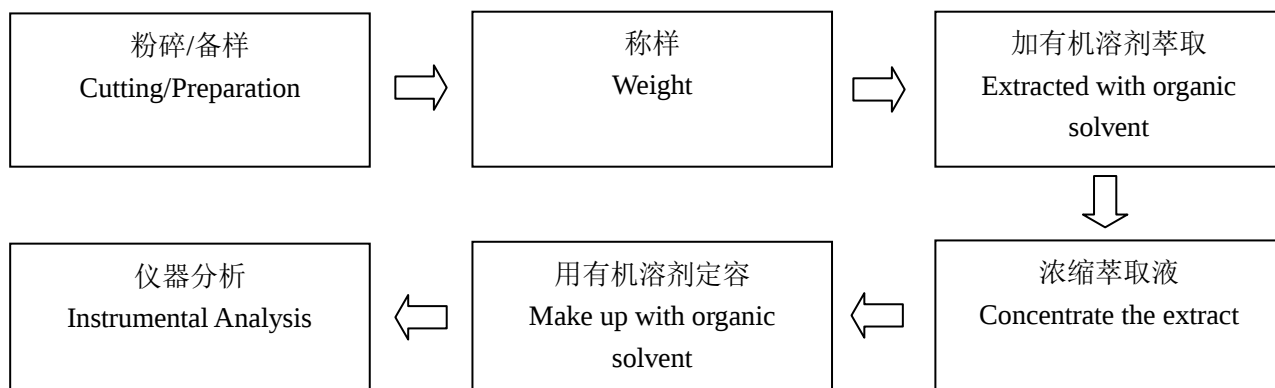
-所有检测的全氟辛烷磺酸(PFOS)及其衍生物,请参见附录 1。

Please refer to Annex 1 for the full list of tested Perfluorooctane sulfonic acid (PFOS) and its derivatives.

-所有检测的全氟辛酸(PFOA)及其盐和相关物质,请参见附录 2。

Please refer to Annex 2 for the full list of tested Perfluorooctanoic acid (PFOA) and its salts and related compounds.

测试流程图 Test Process:





附录 1 全氟辛烷磺酸(PFOS)及其衍生物

Annex 1 Perfluorooctane sulfonic acid (PFOS) and its derivatives

物质名称 Substance name	CAS 号 CAS No.	MDL (mg/kg)
全氟辛基磺酸(PFOS) Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01
全氟辛基磺酸钠(PFOS-Na)* Sodium perfluorooctanesulfonate (PFOS-Na)*	4021-47-0	0.01
全氟辛基磺酸钾(PFOS-K)* Potassium heptadecafluorooctane-1-sulphonate (PFOS-K)*	2795-39-3	0.01
全氟辛基磺酸锂(PFOS-Li)* Lithium heptadecafluorooctanesulphonate (PFOS-Li)*	29457-72-5	0.01
全氟辛基磺酸镁(PFOS-Mg)* Magnesium bis [heptadecafluorooctanesulphonate] (PFOS-Mg) *	91036-71-4	0.01
全氟辛基磺酸铵(PFOS-NH ₄) Ammonium heptadecafluorooctanesulphonate (PFOS-NH ₄)*	29081-56-9	0.01
全氟辛基磺酸二乙醇胺 (PFOS-NH ₂ (C ₂ H ₄ OH) ₂)* Heptadecafluorooctanesulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFOS-NH ₂ (C ₂ H ₄ OH) ₂)*	70225-14-8	0.01
全氟辛基磺酸四乙基胺 (PFOS-N(C ₂ H ₅) ₄)* Tetraethylammonium heptadecafluorooctanesulphonate (PFOS-N(C ₂ H ₅) ₄)*	56773-42-3	0.01
全氟辛基磺酸二癸二甲基铵(PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)* Didecyldimethylammonium perfluorooctanesulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)*	251099-16-8	0.01
全氟辛基磺酰氟(POSF)* Heptadecafluorooctanesulphonyl fluoride (POSF)*	307-35-7	0.01
全氟辛基磺酸哌啶 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-hepta decafluorooctane-1-sulfonic acid,piperidine	71463-74-6	0.01
氟虫胺(N-Et-FOSA) N-ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2	0.01
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-N-甲基-辛磺酰胺 (N-Me-FOSA) N-methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	0.01
N-乙基全氟辛基磺酰胺乙醇 (N-Et-FOSE) 2-(N-ethylperfluoro-1- octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2	0.01
1, 1, 2, 2, 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 8-十七氟-N-(2-羟乙基)-N- 甲基-1-辛基磺酰胺(N-Me-FOSE) 2-(N-methylperfluoro-1- octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7	0.01



物质名称 Substance name	CAS 号 CAS No.	MDL (mg/kg)
全氟辛基磺酰胺(PFOSA) Heptadecafluorooctanesulphonamide(PFOSA)	754-91-6	0.01
全氟辛基磺酰氨基乙酸(FOSAA) Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	0.01
全氟辛基磺酰胺锂盐(1:1) (PFOSA-Li)* 1-Octanesulfonamide,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-hepta decafluoro-, lithium salt (1:1) (PFOSA-Li)*	76752-79-9	0.01
N-(十七氟辛基磺酰基)-N-甲基甘氨酸 (N-Me-FOSAA) N-Methylperfluoro-1- octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	0.01
N-乙基-N-((十七氟辛基)磺酰基)甘氨酸(N-Et-FOSAA) N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	0.01

备注 Note:

*该物质的结果由其特定化合物的结果换算而来。

*The result of the substance is converted from the result of its specific compound.





附录 2 全氟辛酸(PFOA)及其盐和相关物质

Annex 2 Perfluorooctanoic acid (PFOA) and its salts and related compounds

物质名称 Substance name	CAS 号 CAS No.	MDL (mg/kg)
全氟辛酸(PFOA)及其盐 Perfluorooctanoic acid (PFOA) and its salts		
全氟辛酸 (PFOA) Perfluorooctanoic acid (PFOA)	335-67-1	0.01
全氟辛酸铵(APFO)* Ammonium pentadecafluorooctanoate (APFO)*	3825-26-1	0.01
全氟辛酸钠(PFOA-Na)* Sodium pentadecafluorooctanoate (PFOA-Na)*	335-95-5	0.01
全氟辛酸钾(PFOA-K)* Potassium perfluorooctanoate (PFOA-K)*	2395-00-8	0.01
全氟辛酸银(PFOA-Ag)* Silver(1+) perfluorooctanoate (PFOA-Ag)*	335-93-3	0.01
全氟辛氟(PFOA-F)* Pentadecafluorooctyl fluoride (PFOA-F)*	335-66-0	0.01
全氟辛酸锂(PFOA-Li)* lithium salt of perfluorooctanoic acid (PFOA-Li)*	17125-58-5	0.01
全氟辛酸(PFOA)相关物质 Perfluorooctanoic acid related substances		
全氟辛酸甲酯(Me-PFOA) Methyl perfluorooctanoate (Me-PFOA)	376-27-2	0.2
全氟辛酸乙酯(Et-PFOA) Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	0.2
全氟正辛基碘烷 (PFOI) Perfluoro-1-iodooctane (PFOI)	507-63-1	0.2
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH) 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	0.1
1H,1H,2H,2H-全氟癸磺酸 (8:2 FTS) 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	0.2
丙烯酸 1H,1H,2H,2H-十七氟葵酯 8:2 FTA) 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	0.2
2-(全氟辛基)乙基甲基丙烯酸酯(8:2 FTMA) 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	0.2
1H,1H,2H,2H-全氟癸基三乙氧基硅烷(PFSI) 1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	0.2
1-碘-1H,1H,2H,2H-全氟癸烷(8:2 FTI) 1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	0.2





物质名称 Substance name	CAS 号 CAS No.	MDL (mg/kg)
双(2-(全氟乙基))磷酸 (8:2diPAP) Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl) hydrogen phosphate (8:2diPAP)	678-41-1	0.1
双(2-(全氟乙基))磷酸钠(8:2diPAP-Na)* Sodium Bis (1H,1H,2H,2H- Perfluorodecyl) phosphate*	114519-85-6	0.1
四丁基磷2H,2H-全氟癸酸酯 (H ₂ PFDA-P(C ₄ H ₉) ₄) Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (H ₂ PFDA-P(C ₄ H ₉) ₄)	882489-14-7	0.1
2H,2H,3H,3H-全氟十一酸 (H ₄ PFUnDA) 2H,2H,3H,3H-Perfluoroundecanoic acid(H ₄ PFUnDA/ 8:3 FTCA)	34598-33-9	0.1
3-(全氟辛基)丙酸钾 (H ₄ PFUnDA-K)* Potassium 1H,1H,2H,2H- perfluoroundecanoate	83310-58-1	0.2
2H,2H-全氟癸酸 (H ₂ PFDA) 2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA)	27854-31-5	0.1
全氟辛基乙烯(PFOE) (perfluoro-n-octyl)ethylene	21652-58-4	0.2
全氟癸基三氯硅烷(FDTS) Perfluorodecyltrichlorosilane (FDTS)	78560-44-8	0.2
全氟癸基三甲氧硅烷(FDTMOS) 1H,1H,2H,2H-PerfluorodecyltriMethoxy silane (FDTMOS)	83048-65-1	0.2
双[2-(全氟癸基)乙基]磷酸酯(10:2 diPAP) Bis[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11, 11,12,12,12- henicosafuorododecyl] hydrogen phosphate	1895-26-7	0.1

备注 Note:

*该物质的结果由其特定化合物的结果换算而来。

*The result of the substance is converted from the result of its specific compound.

*****报告结束 END OF REPORT *****





声 明

STATEMENT

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2. 报告无检测、批准人员签字无效。

The test report is invalid without signature of person(s) testing and authorizing.

3. 报告涂改无效。

The test report is invalid if erased and corrected.

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Test results of the report is valid to the test samples if sampling by client.

5. 所有项目未通过 CNAS 认可。

All items were not approved by CNAS.

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If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.



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