



Test Report

Report No. A2240241243103001

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Company Name JIANGSU MICRO COMMERCIAL COMPONENTS CO., LTD.

shown on Report

Address NO.68, XINGANQUAN ROAD, HANJIANG DISTRICT, YANGZHOU, CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name	semiconductors
Color	Black body
Material	semiconductors
Sample Received Date	Apr. 30, 2024
Testing Period	Apr. 30, 2024 to May 11, 2024

Test Conducted:

As requested by the applicant. For details refer to next page(s)



Approved by

Chen Kaimin

Chen kaimin
Lab Manager

Date

May 11, 2024

Centre Testing International Pinbiao(Shanghai) Co., Ltd.

No.1351, Wanfang Road, Minhang District, Shanghai, China

No. R475315559

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Executive Summary:**TEST REQUEST****CONCLUSION**

1. Client's requirement	
- Perfluoroalkyl and polyfluoroalkyl substances (PFAS)	See test result(s)
2. Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic Substances Control Act (TSCA) Section 6(h)	
- Decabromodiphenyl Ether (DecaBDE)	PASS
- Phenol, Isopropylated Phosphate (PIP (3:1))	PASS
- 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)	PASS
- Hexachlorobutadiene (HCBD)	PASS
- Pentachlorothiophenol (PCTP)	PASS
3. As specified by client, to test Polycyclic Aromatic Hydrocarbons (PAHs), Arsenic(As), Beryllium(Be), Antimony(Sb), Hexabromocyclododecane (HBCDD)in the submitted sample(s).	See test result(s)

***** For further details, please refer to the following page(s)*****

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1.1 Client's requirement

▼ Perfluoroalkyl and polyfluoroalkyl substances (PFAS)

Test Method: CEN/TS 15968:2010*1; Test Equipment: LC-MS-MS & GC-MS

No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL
			001	(mg/kg)
1	Perfluorooctane Sulfonates (PFOS)	1763-23-1	N.D.	0.010
2	Perfluorooctanesulfonic acid, potassium salt (PFOS-K)*	2795-39-3	N.D.	0.020
3	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)*	29457-72-5	N.D.	0.010
4	Sodium perfluorooctane sulfonate (PFOS-Na)*	4021-47-0	N.D.	0.010
5	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-, magnesium salt (2:1) (PFOS-Mg)*	91036-71-4	N.D.	0.020
6	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)*	29081-56-9	N.D.	0.010
7	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)*	70225-14-8	N.D.	0.020
8	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)*	56773-42-3	N.D.	0.020
9	Tetrabutylammonium perfluorooctanesulfonate (PFOS-NH(C ₁₆ H ₃₆))*	111873-33-7	N.D.	0.015
10	Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-DDA)*	251099-16-8	N.D.	0.020
11	Perfluoro-1-octanesulfonyl fluoride (PFOSF)*	307-35-7	N.D.	0.010
12	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate*	71463-74-6	N.D.	0.020
13	N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2	N.D.	0.050
14	N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	N.D.	0.050
15	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2	N.D.	0.050
16	2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7	N.D.	0.050
17	Perfluorooctanoic acid (PFOA)	335-67-1	N.D.	0.010
18	Ammonium pentadecafluorooctanoate (APFO)*	3825-26-1	N.D.	0.010
19	Sodium perfluorooctanoate (PFOA-Na)*	335-95-5	N.D.	0.020
20	Potassium perfluorooctanoate (PFOA-K)*	2395-00-8	N.D.	0.020
21	Lithium perfluorooctanoate (PFOA-Li)*	17125-58-5	N.D.	0.010
22	Silver perfluorooctanoate (PFOA-Ag)*	335-93-3	N.D.	0.020
23	Perfluorooctanoyl fluoride (PFOA-F)*	335-66-0	N.D.	0.010
24	Cesium perfluorooctanoate (PFOA-Cs)*	17125-60-9	N.D.	0.020
25	Cobalt perfluorooctanoate (PFOA-Co)*	35965-01-6	N.D.	0.025
26	Chromium(III) perfluorooctanoate (PFOA-Cr)*	68141-02-6	N.D.	0.025
27	N,N,N-Triethylethanaminium perfluorooctanoate (PFOA-NH(C ₈ H ₁₉))*	98241-25-9	N.D.	0.015
28	Tetrapropylammonium perfluorooctanoate (PFOA-NH(C ₁₂ H ₂₇))*	277749-00-5	N.D.	0.015
29	Perfluorooctanoate N,N,N-Trimethylmethanaminium (PFOA-NH(C ₄ H ₁₁))*	32609-65-7	N.D.	0.015

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No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
30	Pentadecafluorooctanoic acid-piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N))*	423-52-9	N.D.	0.015
31	Methyl perfluorooctanoate (Me-PFOA)	376-27-2	N.D.	0.010
32	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	N.D.	0.010
33	Perfluorooctyl iodide (PFOI)	507-63-1	N.D.	0.200
34	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	N.D.	0.200
35	1H,1H,2H,2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	N.D.	0.200
36	1H,1H,2H,2H-Perfluorodecanesulfonic Acid Sodium (8:2FTS-Na)*	27619-96-1	N.D.	0.200
37	Potassium 2-(perfluorooctyl)ethane-1-sulfonate (8:2 FTS-K)*	438237-73-1	N.D.	0.200
38	8:2 Fluorotelomer sulfonate ammonium salt (8:2FTS-NH ₄)*	149724-40-3	N.D.	0.200
39	1,1,2,2-Tetrahydroperfluorodecyl acrylate (8:2 FTAC)	27905-45-9	N.D.	0.200
40	2-Propenoic acid,2-methyl-,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester (8:2 FTMA)	1996-88-9	N.D.	0.200
41	1H,1H,2H,2H-Perfluorodecyltriethoxysilane (PFSI)	101947-16-4	N.D.	0.200
42	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo- (8:2 FTI)	2043-53-0	N.D.	0.200
43	8:2 Fluorotelomer phosphate diester (8:2diPAP)	678-41-1	N.D.	0.200
44	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)*	114519-85-6	N.D.	0.200
45	Ammonium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-NH ₄)*	93776-20-6	N.D.	0.200
46	Perfluorooctanesulfonamide (PFOSA)	754-91-6	N.D.	0.010
47	Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)*	76752-79-9	N.D.	0.010
48	Perfluorohexanoic acid (PFHxA)	307-24-4	N.D.	0.010
49	Sodium undecafluorohexanoate (PFHxA-Na)*	2923-26-4	N.D.	0.020
50	Hexanoic acid, undecafluoro-, potassium salt (PFHxA-K)*	3109-94-2	N.D.	0.020
51	Lithium perfluorohexanoate (PFHxA-Li)*	90430-61-8	N.D.	0.010
52	Silver perfluorohexanoate (PFHxA-Ag)*	336-02-7	N.D.	0.020
53	Ammonium perfluorohexanoate (PFHxA-NH ₄)*	21615-47-4	N.D.	0.020
54	Perfluorohexanoyl fluoride (PFHxA-F)*	355-38-4	N.D.	0.010
55	Perfluorohexanoyl chloride (PFHxA-Cl)*	335-53-5	N.D.	0.010
56	Methyl perfluorohexanoate (APFHxA)*	424-18-0	N.D.	0.010
57	Perfluorohexanoic anhydride (PFHxAA)*	308-13-4	N.D.	0.020
58	Perfluoroheptanoic acid (PFHpA)	375-85-9	N.D.	0.010
59	Sodium perfluoroheptanoate (PFHpA-Na)*	20109-59-5	N.D.	0.020
60	Potassium perfluoroheptanoate (PFHpA-K)*	21049-36-5	N.D.	0.020
61	Lithium perfluoroheptanoate (PFHpA-Li)*	60871-90-1	N.D.	0.010
62	Silver perfluoroheptanoate (PFHpA-Ag)*	424-05-5	N.D.	0.020
63	Cesium perfluoroheptanoate (PFHpA-Cs)*	171198-24-6	N.D.	0.020
64	Ammonium perfluoroheptanoate (PFHpA-NH ₄)*	6130-43-4	N.D.	0.010
65	Perfluorobutane sulfonic acid (PFBS)	375-73-5	N.D.	0.010
66	Sodium perfluorobutanesulfonate (PFBS-Na)*	60453-92-1	N.D.	0.020
67	Perfluorobutanesulfonate K-salt (PFBS-K)*	29420-49-3	N.D.	0.020
68	Lithium perfluorobutanesulfonate (PFBS-Li)*	131651-65-5	N.D.	0.010

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			001	
69	Magnesium perfluorobutanesulfonate (PFBS-Mg)*	507453-86-3	N.D.	0.025
70	Perfluorobutane sulfonic acid hydrate (PFBS-H ₂ O)*	59933-66-3	N.D.	0.020
71	1-Butanesulfonyl fluoride, 1,1,2,2,3,3,4,4,4-nonafluoro- (PFBSF)*	375-72-4	N.D.	0.010
72	Nonafluoro-1-butanesulfonyl chloride (PFBSCL)*	2991-84-6	N.D.	0.020
73	N,N,N-Triethyl-1-[(1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonyl)oxy]ethan-1-aminium (PFBS-N(CH ₃ CH ₂) ₄)*	25628-08-4	N.D.	0.020
74	Ammonium perfluorobutanesulfonate (PFBS-NH ₄)*	68259-10-9	N.D.	0.020
75	Triphenylsulfonium nonaflate (PFBS-S(C ₆ H ₅) ₃)*	144317-44-2	N.D.	0.020
76	Dimethyl (phenyl) sulfonium perfluorobutanesulfonate (PFBS-S(CH ₃) ₂ C ₆ H ₅)*	220133-51-7	N.D.	0.020
77	Tetrabutylphosphorus perfluorobutylsulfonate (PFBS-P(C ₄ H ₉) ₄)*	220689-12-3	N.D.	0.020
78	Morpholinium perfluorobutanesulfonate (PFBS-NC ₄ H ₉ O)*	503155-89-3	N.D.	0.020
79	1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-S(C ₄ H ₈)(C ₁₀ H ₆)OC ₄ H ₉)*	209482-18-8	N.D.	0.020
80	Bis(4-t-butylphenyl)iodonium perfluorobutanesulfonate (PFBS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)*	194999-85-4	N.D.	0.020
81	1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFBS-NH(C ₂ H ₅ O) ₂)*	70225-18-2	N.D.	0.020
82	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	N.D.	0.010
83	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt (PFHxS-Na)*	82382-12-5	N.D.	0.020
84	Potassium perfluorohexane-1-sulphonate (PFHxS-K)*	3871-99-6	N.D.	0.020
85	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt(1:1) (PFHxS-Li)*	55120-77-9	N.D.	0.010
86	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)*	70136-72-0	N.D.	0.025
87	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9Cl) (PFHxS-Ga)*	341035-71-0	N.D.	0.010
88	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1) (PFHxS-Sc)*	350836-93-0	N.D.	0.010
89	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1) (PFHxS-Nd)*	41184-65-0	N.D.	0.010
90	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1) (PFHxS-Y)*	41242-12-0	N.D.	0.010
91	Cesium Perfluorohexanesulfonate (PFHxS-Cs)*	92011-17-1	N.D.	0.020
92	1-Hexanesulfonic acid,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, ammonium salt (1:1)(PFHxS-NH ₄)*	68259-08-5	N.D.	0.010
93	1-Hexanesulfonyl fluoride,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- (PFHxSF)*	423-50-7	N.D.	0.010
94	1,1,2,2,3,3,4,4,5,5,6,6,6-Tridecafluorohexane-1-sulphonyl chloride (PFHxS-Cl)*	55591-23-6	N.D.	0.020
95	Perfluorohexylsulfonate (PFHxS(anion))*	108427-53-8	N.D.	0.010

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No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
96	Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2) (PFHxS-S ₃ (C ₆ H ₅) ₄ (C ₆ H ₄) ₂)*	421555-73-9	N.D.	0.020
97	Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic (PFHxS-I(C ₆ H ₄) ₂ (C ₅ H ₁₁) ₂)*	421555-74-0	N.D.	0.020
98	Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C ₆ H ₄) ₃ (C ₄ H ₉) ₃)*	425670-70-8	N.D.	0.020
99	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFHxS-N(C ₂ H ₅) ₃)*	72033-41-1	N.D.	0.020
100	Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI) (PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)*	866621-50-3	N.D.	0.020
101	Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS(S(C ₆ H ₅) ₂ C ₇ H ₇))*	910606-39-2	N.D.	0.020
102	Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C ₆ H ₅) ₂ C ₁₀ H ₉ O ₂)*	911027-68-4	N.D.	0.020
103	Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 ^{3,7}]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate*	911027-69-5	N.D.	0.020
104	Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-SC ₂₈ H ₃₁ O ₄)*	928049-42-7	N.D.	0.020
105	Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-P(C ₆ H ₅) ₃ C ₇ H ₇)*	1000597-52-3	N.D.	0.020
106	1-Butanaminium, N,N,N-tributyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (PFHxS-N(C ₄ H ₉) ₄)*	108427-54-9	N.D.	0.020
107	Ethanaminium, N,N,N-triethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-N(C ₂ H ₅) ₄)*	108427-55-0	N.D.	0.020
108	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with pyrrolidine (1:1) (PFHxS-NC ₄ H ₉)*	1187817-57-7	N.D.	0.020
109	Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C ₆ H ₅) ₃)*	144116-10-9	N.D.	0.020

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			001	
110	Quinolinium,1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-C ₄₄ H ₃₇ N ₂ O ₂)*	1462414-59-0	N.D.	0.020
111	Iodonium, diphenyl-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-I(C ₆ H ₅) ₂)*	153443-35-7	N.D.	0.020
112	Methanaminium,N,N,N-trimethyl-,salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-N(CH ₃) ₄)*	189274-31-5	N.D.	0.020
113	1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with 2-methyl-2-propanamine (1:1) (PFHxS-NH ₂ (CH ₃) ₃)*	202189-84-2	N.D.	0.020
114	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)*	213740-81-9	N.D.	0.020
115	Sulfonium, bis(4-methylphenyl)phenyl-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C ₇ H ₇) ₂ C ₆ H ₅)*	341548-85-4	N.D.	0.020
116	Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC ₁₀ H ₁₄) ₃ C ₅ H ₄)*	1310480-24-0	N.D.	0.020
117	Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC ₈ H ₁₀) ₂ C ₁₃ H ₁₂)*	1310480-27-3	N.D.	0.020
118	Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-(NC ₈ H ₁₀) ₂ C ₁₇ H ₁₂)*	1310480-28-4	N.D.	0.020
119	Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1) (PFHxS-C ₄₂ H ₇₀ O ₃₅)*	1329995-45-0	N.D.	0.020
120	Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1) (PFHxS-C ₄₈ H ₈₀ O ₄₀)*	1329995-69-8	N.D.	0.020
121	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFHxS-NH(C ₂ H ₅ O) ₂)*	70225-16-0	N.D.	0.020
122	Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	N.D.	0.010
123	Perfluoroheptanesulfonate NA-salt (PFHpS-Na)*	21934-50-9	N.D.	0.010
124	Potassium Perfluoroheptanesulfonate (PFHpS-K)*	60270-55-5	N.D.	0.020
125	Lithium perfluoroheptanesulfonate (PFHpS-Li)*	117806-54-9	N.D.	0.010
126	Ammonium perfluoroheptanesulfonate (PFHpS-NH ₄)*	68259-07-4	N.D.	0.010
127	Bis(2-hydroxyethyl)ammonium perfluoroheptanesulfonate (PFHpS-NH(C ₄ H ₁₁))*	70225-15-9	N.D.	0.010

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No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
128	Perfluoroundecanoic acid (PFUnDA)	2058-94-8	N.D.	0.010
129	Sodium perfluoroundecanoate (PFUnDA-Na)*	60871-96-7	N.D.	0.010
130	Potassium perfluoroundecanoate (PFUnDA-K)*	30377-53-8	N.D.	0.020
131	Calcium perfluoroundecanoate (PFUnDA-Ca)*	97163-17-2	N.D.	0.025
132	Ammonium perfluoroundecanoate (PFUnDA-NH ₄)*	4234-23-5	N.D.	0.010
133	Perfluorododecanoic acid (PFDoDA)	307-55-1	N.D.	0.010
134	Ammonium tricosfluorododecanoate (PFDoDA-NH ₄)*	3793-74-6	N.D.	0.010
135	Perfluorotridecanoic acid (PFTrDA)	72629-94-8	N.D.	0.010
136	Sodium perfluorotridecanoate (PFTrDA-Na)*	60872-01-7	N.D.	0.010
137	Ammonium perfluorotridecanoate (PFTrDA-NH ₄)*	4288-72-6	N.D.	0.010
138	Perfluorotetradecanoic acid (PFTeDA)	376-06-7	N.D.	0.010
139	Henicosfluorodecanesulphonic acid (PFDS)	335-77-3 126105-34-8	N.D.	0.010
140	Perfluorodecanesulfonate NA-salt (PFDS-Na)*	2806-15-7	N.D.	0.010
141	Perfluorodecanesulfonate K-salt (PFDS-K)*	2806-16-8	N.D.	0.020
142	Ammonium henicosfluorodecanesulphonate (PFDS-NH ₄)*	67906-42-7	N.D.	0.010
143	1H,1H,2H,2H-Perfluoro-octane-sulphonic acid (6:2 FTS)	27619-97-2	N.D.	0.010
144	1H,1H,2H,2H-Perfluoro-octane-sulphonic acid sodium salt (6:2 FTS-Na)*	27619-94-9	N.D.	0.010
145	1H,1H,2H,2H-Perfluoro-octane-sulphonic acid potassium salt (6:2 FTS-K)*	59587-38-1	N.D.	0.010
146	1H,1H,2H,2H-Perfluoro-octane-sulphonic acid ammonium salt (6:2 FTS-NH ₄)*	59587-39-2	N.D.	0.010
147	Perfluoro-butanoic acid (PFBA)	375-22-4	N.D.	0.010
148	Sodium heptafluorobutyrate (PFBA-Na)*	2218-54-4	N.D.	0.020
149	Potassium heptafluorobutanoate (PFBA-K)*	2966-54-3	N.D.	0.020
150	Lithium perfluorobutanoate (PFBA-Li)*	4146-76-3	N.D.	0.010
151	Silver perfluorobutanoate (PFBA-Ag)*	3794-64-7	N.D.	0.020
152	Ammonium perfluorobutanoate(PFBA-NH ₄)*	10495-86-0	N.D.	0.020
153	Perfluoropentanoic acid (PFPeA)	2706-90-3	N.D.	0.010
154	Sodium perfluorovalerate (PFPeA-Na)*	2706-89-0	N.D.	0.020
155	Potassium nonafluoropentanoate (PFPeA-K)*	336-23-2	N.D.	0.020
156	Lithium perfluoropentanoate (PFPeA-Li)*	198482-22-3	N.D.	0.010
157	Silver perfluoropentanoate (PFPeA-Ag)*	2795-30-4	N.D.	0.020
158	Ammonium perfluoropentanoate (PFPeA-NH ₄)*	68259-11-0	N.D.	0.020
159	Perfluorononanoic acid (PFNA)	375-95-1	N.D.	0.010
160	Sodium heptafluorononanoate (PFNA-Na)*	21049-39-8	N.D.	0.010
161	Potassium perfluorononanoate (PFNA-K)*	21049-38-7	N.D.	0.020
162	Lithium heptafluorononanoate (PFNA-Li)*	60871-92-3	N.D.	0.010
163	Silver perfluorononanoate (PFNA-Ag)*	7358-16-9	N.D.	0.020
164	Perfluorononanoate ammounium salt (PFNA-NH ₄)*	4149-60-4	N.D.	0.010
165	Cyclohexanaminium perfluorononanoate (PFNA-NH(C ₆ H ₁₂))*	328531-06-2	N.D.	0.010
166	Piperidinium perfluorononanoate (PFNA-NH(C ₅ H ₁₁))*	95682-66-9	N.D.	0.010
167	Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))*	77032-23-6	N.D.	0.010

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			001	
168	Perfluorodecanoic acid (PFDA)	335-76-2	N.D.	0.010
169	Sodium nonadecafluorodecanoate (PFDA-Na)*	3830-45-3	N.D.	0.010
170	Potassium perfluorodecanoate (PFDA-K)*	51604-85-4	N.D.	0.020
171	Lithium perfluorodecanoate (PFDA-Li)*	84743-32-8	N.D.	0.010
172	Silver perfluorodecanoate (PFDA-Ag)*	5784-82-7	N.D.	0.020
173	Perfluorodecanoate ammonium salt (APFDA)*	3108-42-7	N.D.	0.010
174	Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA)	172155-07-6	N.D.	0.010
175	7H-Dodecafluoro heptane acid (HPFHpA)	1546-95-8	N.D.	0.010
176	Sodium 7H-perfluoroheptanoate (HPFHpA-Na)*	2264-25-7	N.D.	0.020
177	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (H ₂ PFDA-P(C ₄ H ₉) ₄)	882489-14-7	N.D.	0.010
178	2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnA)	34598-33-9	N.D.	0.010
179	Potassium 3-(perfluorooctyl)propanoate (H ₄ PFUnA-K)*	83310-58-1	N.D.	0.020
180	Lithium 3-(perfluorooctyl)propanoate (H ₄ PFUnA-Li)*	67304-23-8	N.D.	0.010
181	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	N.D.	0.200
182	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	N.D.	0.200
183	1H,1H,2H,2H-Perfluoro octyl acrylate (6:2 FTA)	17527-29-6	N.D.	0.200
184	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	N.D.	0.200
185	1H,1H,2H,2H-Tetrahydroperfluorododecyl acrylate (10:2 FTA)	17741-60-5	N.D.	0.200
186	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO)	13252-13-6	N.D.	0.050
187	Potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate (HFPO-K)*	67118-55-2	N.D.	0.060
188	Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, ammonium salt (HFPO-NH ₄)*	62037-80-3	N.D.	0.060
189	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionyl fluoride (HFPO-F)*	2062-98-8	N.D.	0.050
190	Perfluorooctadecanoic acid (PFODA)	16517-11-6	N.D.	0.010
191	Perfluoropalmitic acid (PFHxDA)	67905-19-5	N.D.	0.010
192	2H,2H-Perfluorodecanoate (H ₂ PFDA)	27854-31-5	N.D.	0.010
193	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC)	2144-53-8	N.D.	0.200
194	N-Methyl perfluorooctanesulfonamidoacetic acid (N-Me-FOSAA)	2355-31-9	N.D.	0.050
195	N-ethyl-N-[(heptadecafluorooctyl)sulphonyl] glycine (N-Et-FOSAA)	2991-50-6	N.D.	0.050
196	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)*	2991-51-7	N.D.	0.050
197	1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2 FTS)	757124-72-4	N.D.	0.200
198	1H,1H,2H,2H-Perfluorohexanesulfonic acid sodium (4:2 FTS-Na)*	27619-93-8	N.D.	0.200
199	1H,1H,2H,2H-Perfluorododecanesulphonic acid (10:2 FTS)	120226-60-0	N.D.	0.200
200	1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na)*	108026-35-3	N.D.	0.200
201	11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	N.D.	0.010

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			001	
202	Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate (11H-PFUnDA-K)*	307-71-1	N.D.	0.020
203	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate (11H-PFUnDA-NH ₄)*	5081-02-7	N.D.	0.010
204	Perfluorodecyl iodide (PFDI)	423-62-1	N.D.	0.200
205	Perfluorododecyl iodide (PFDol)	307-60-8	N.D.	0.200
206	1H,1H,2H,2H-perfluorododecyl iodide (10:2 FTI)	2043-54-1	N.D.	0.200
207	1H,1H,2H,2H-perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	N.D.	0.200
208	2-(Perfluorodecyl)ethyl methacrylate (10:2 FTMA)	2144-54-9	N.D.	0.200
209	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	N.D.	0.200
210	Glycine, N-[(heptadecafluorooctyl)sulfonyl]- (FOSAA)	2806-24-8	N.D.	0.010
211	Perfluorononane sulfonic acid (PFNS)	68259-12-1	N.D.	0.010
212	Sodium Perfluoro-1-nonanesulfonate (PFNS-Na)*	98789-57-2	N.D.	0.010
213	Perfluorononanesulfonate potassium (PFNS-K)*	29359-39-5	N.D.	0.010
214	Ammonium perfluorononanesulfonate (PFNS-NH ₄)*	17202-41-4	N.D.	0.010
215	1,1,2,2,3,3,4,4,4-Nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulfonamide (N-Et-N-Me-FBSA)	34454-97-2	N.D.	0.200
216	1-Decene,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- (PFOE)	21652-58-4	N.D.	0.200
217	Perfluoroundecane sulfonic acid (PFUnS)	749786-16-1	N.D.	0.010
218	Sodium perfluoro-1-undecanesulfonate (PFUnS-Na)*	-	N.D.	0.010
219	Perfluoroundecanesulfonate (PFUnS(anion))*	441296-91-9	N.D.	0.010
220	Perfluorotridecanesulfonic acid (PFTrDS)	791563-89-8	N.D.	0.010
221	Sodium perfluorotridecanesulfonate (PFTrDS-Na)*	174675-49-1	N.D.	0.010
222	1-Pentanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,5-undecafluoro- (PFPe)	2706-91-4	N.D.	0.010
223	Sodium perfluoropentanesulfonate (PFPe-Na)*	630402-22-1	N.D.	0.020
224	Potassium perfluorohexane-1-sulphonate (PFPe-K)*	3872-25-1	N.D.	0.020
225	Lithium perfluoropentane sulfonate (PFPe-Li)*	1046864-81-6	N.D.	0.010
226	Ammonium perfluoropentanesulfonate (PFPe-NH ₄)*	68259-09-6	N.D.	0.010
227	1-Hexane-sulfonamide,1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- (FHxSA)	41997-13-1	N.D.	0.010
228	Perfluorododecane sulfonic acid (PFDoDs)	79780-39-5	N.D.	0.010
229	Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na)*	1260224-54-1	N.D.	0.010
230	Potassium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-pentacosafuorododecane-1-sulphonate (PFDoDS-K)*	85187-17-3	N.D.	0.010
231	Perfluorododecanesulfonate (PFDoDS(anion))*	343629-43-6	N.D.	0.010
232	Perfluorooctylethyltrichlorosilane (FDTS)	78560-44-8	N.D.	0.200
233	Perfluorooctylethyltrimethoxysilane (FDTMOS)	83048-65-1	N.D.	0.200
234	Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (FOTS)	78560-45-9	N.D.	0.200
235	N-methylperfluorohexanesulfonamide (MeFHxSA)	68259-15-4	N.D.	0.200
236	Pentadecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-nonacosafuoro- (PFPeDA)	141074-63-7	N.D.	0.010
237	2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	N.D.	0.010
238	3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	N.D.	0.010

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			001	
239	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-Henicosafluorododecyl dihydrogen phosphate (10:2 monoPAPS)	57678-05-4	N.D.	0.200
240	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-Henicosafluorododecyl dihydrogen phosphate cyclohexylamine*	2514858-66-1	N.D.	0.200
241	Pentafluoropropionate acid (PFPrA)	422-64-0	N.D.	0.010
242	Sodium pentafluoropropionate (PFPrA-Na)*	378-77-8	N.D.	0.020
243	Potassium pentafluoropropionate (PFPrA-K)*	378-76-7	N.D.	0.020
244	Silver Pentafluoropropionate (PFPrA-Ag)*	509-09-1	N.D.	0.020
245	(Perfluorohexyl)ethylene	25291-17-2	N.D.	0.200
246	Bis[2-(perfluorodecyl)ethyl] Phosphate (10:2diPAP)	1895-26-7	N.D.	0.200
247	2,2-dichloro-1,1,1-trifluoroethane (HCFC-123)	306-83-2	N.D.	0.200
248	1-chloro-1,2,2,2-tetrafluoroethane (HCFC-124)	2837-89-0	N.D.	0.200
249	Pentafluoroethane (HFC-125)	354-33-6	N.D.	0.200
250	Norflurane (HFC-134a)	811-97-2	N.D.	0.200
251	Perfluorobutylsulphonamide (FBSA)	30334-69-1	N.D.	0.010
252	Trifluoroacetic Acid (TFA)	76-05-1	N.D.	0.010
253	Sodium trifluoroacetate (TFA-Na)*	2923-18-4	N.D.	0.020
254	Potassium trifluoroacetate (TFA-K)*	2923-16-2	N.D.	0.020
255	Lithium Trifluoroacetate (TFA-Li)*	2923-17-3	N.D.	0.020
256	Mercury(II) trifluoroacetate (TFA-Hg)*	13257-51-7	N.D.	0.040
257	Cesium Trifluoroacetate (TFA-Cs)*	21907-50-6	N.D.	0.025
258	Thallium(III) trifluoroacetate (TFA-Tl)*	23586-53-0	N.D.	0.050
259	Palladium(II) trifluoroacetate (TFA-Pd)*	42196-31-6	N.D.	0.030
260	Silver trifluoroacetate (TFA-Ag)*	2966-50-9	N.D.	0.020
261	Ammoniumtrifluoroacetate (TFA-NH ₄)*	3336-58-1	N.D.	0.020
262	2,2,3,3,4,4,4-heptafluorobutyramide (FBAA)	662-50-0	N.D.	0.050
263	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	812-70-4	N.D.	0.010
264	Perfluoro-4-methoxybutanoic acid (PFMOBA)	863090-89-5	N.D.	0.010
265	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl dihydrogen phosphate (8:2 monoPAPS)	57678-03-2	N.D.	0.200
266	2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	N.D.	0.010
267	2H-Perfluoro-2-octenoic acid (6:2) (6:2 FTUCA)	70887-88-6	N.D.	0.010
268	11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	N.D.	0.010
269	Potassium 11-chloroeicosafuoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS-K)*	83329-89-9	N.D.	0.020
270	2h,2h,3h,3h-perfluorohexanoic acid (33FTA)	356-02-5	N.D.	0.010
271	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	N.D.	0.010
272	2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	N.D.	0.010
273	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	N.D.	0.010
274	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	N.D.	0.010
275	Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS-K)*	73606-19-6	N.D.	0.020
276	2,2,3,3-tetrafluoro-3-(trifluoromethoxy)propanoic acid (PFMPA)	377-73-1	N.D.	0.010

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			001	
277	Perfluorodecylphosphonic acid (PFDPA)	52299-26-0	N.D.	0.010
278	Perfluoro-3,6-dioxahexanoic acid (PF-3,6-DOHA)	151772-58-6	N.D.	0.010
279	2H,2H-Perfluorododecanoic acid (10:2FTCA)	53826-13-4	N.D.	0.010
280	3-(Perfluorohexyl)propan-1-ol (6:3 FTOH)	80806-68-4	N.D.	0.200
281	Methyl Perfluoroamyl Ketone (5:2 ketone)	2708-07-8	N.D.	0.200
282	Perfluorotributylamine (PFTBA)	311-89-7	N.D.	0.200
283	Trimethyl(tridecafluorohexyl)silane (TMPFHSI)	135841-49-5	N.D.	0.200
284	2,2,3,3,4,4,4-heptafluoro-1-butanol (PFBOH)	375-01-9	N.D.	0.200
285	1H,1H-Tridecafluoro-1-iodoheptane (PFIH)	212563-43-4	N.D.	0.200
286	1H,1H,2H,2H-perfluorooctyltriethoxysilane (PFOTOSI)	51851-37-7	N.D.	0.200
287	Ethyl Undecafluoroamyl Ketone(EtPFPK)	383177-55-7	N.D.	0.200
288	1-Bromoperfluorohexane (PFHBr)	335-56-8	N.D.	0.200
289	1H,1H,2H,2H-Perfluorooctyl iodide (PFIO)	2043-57-4	N.D.	0.200
290	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl) iodoacetamide (N-PFNIETa)	852527-50-5	N.D.	0.200
291	Perfluorooctane (PFOct)	307-34-6	N.D.	0.200
292	Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) silane (TMTFSI)	85857-16-5	N.D.	0.200
293	2,2,3,3,4,4,5,5,6,6,6-undecafluorohexan-1-ol (5:1 FTOH)	423-46-1	N.D.	0.200
294	3-Perfluorohexyl-1,2-epoxypropane (3-PFH-1,2-HPPO)	38565-52-5	N.D.	0.200
295	1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-(trifluoromethyl)pentane (HFE-7300)	132182-92-4	N.D.	0.200
296	Alcohols, C8-14, gamma-omega-perfluoro (C8-14-PFEtOH)	68391-08-2	N.D.	0.200
297	Tridecafluoroheptanamide (TPFHpa)	2358-22-7	N.D.	0.200
298	1-(Perfluorohexyl)-2-iodopropane (PFNI)	38550-34-4	N.D.	0.200
299	3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl thiocyanate (PFHTH)	26650-09-9	N.D.	0.200
300	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (TFNI)	89889-20-3	N.D.	0.200
301	3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-thiol (PFOctSOH)	34451-26-8	N.D.	0.200
302	1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (PFODMeCLSI)	102488-47-1	N.D.	0.200
303	Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4-bis(trifluoromethyl)heptyl]silane (EtPFMHepSI)	130676-81-2	N.D.	0.200
304	3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-2-ol (5:2sFTOH)	914637-05-1	N.D.	0.200
305	1H,1H-Perfluoro-1-heptanol (PFHepOH)	375-82-6	N.D.	0.200
306	4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol (4-PFOBA)	356055-76-0	N.D.	0.200
307	1H,1H,2H,2H-Perfluorodecyl acetate (8:2FTOAc)	37858-04-1	N.D.	0.200
308	2-(Perfluorohexyl)ethyltris(1-methylethoxy)silane (PFETMSI)	1240203-07-9	N.D.	0.200
309	Bis(1,1,2,2,3,3,4,4,4-nonafluoro-1-butaneulfonyl)imide (BIS-PFBSI)	39847-39-7	N.D.	0.010

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No.	Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
			001	
310	Carboxymethyl-dimethyl-3-[[3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulphonyl]amino]propylammonium hydroxide (6:2 FTAB)	34455-29-3	N.D.	0.010
311	N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide (N-oxideN-diPTFOP-N-oxide)	80475-32-7	N.D.	0.010
312	2,2-difluoro-2-(trifluoromethoxy)acetic acid (PFMOAA)	674-13-5	N.D.	0.010
313	Bis[2-[N-ethyl(heptadecafluorooctanesulphonyl)amino]ethyl]hydrogen phosphate (EtFOSEdiPAPs)	2965-52-8	N.D.	0.050
314	2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA)	27854-30-4	N.D.	0.010
315	Perfluorohexyl ethylphosphonic acid (Cheminox FHP 2OH(PFHEPA))	252237-40-4	N.D.	0.010
316	Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP 2OH-Na(PFHEPA-Na))*	1189052-95-6	N.D.	0.010
317	1-Octanol,3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-,1-(dihydrogen phosphate) (6:2monoPAPs)	57678-01-0	N.D.	0.010
318	Perfluoro-3,6-dioxaoctanoic acid (PF-3,6-DOOA)	80153-82-8	N.D.	0.010
319	Perfluoro-3,6-dioxa-4-methyl-7-octenesulfonic acid (PFESA BP1)	29311-67-9	N.D.	0.010
320	7H-Perfluoro-4-methyl-3,6-dioxaoctanesulfonic acid (PFESA BP2)	749836-20-2	N.D.	0.010

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- *The test result of the substance is converted from the test result of certain compound.
- The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Black body (Tested as a whole)

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2.1 Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic Substances Control Act (TSCA) Section 6(h)

▼ Decabromodiphenyl Ether (DecaBDE)

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018*¹; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	001		
Decabromodiphenyl Ether (DecaBDE)	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

▼ Phenol, Isopropylated Phosphate (PIP (3:1))

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018*¹; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	001		
Phenol, Isopropylated Phosphate (PIP (3:1))	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

▼ 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018*¹; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	001		
2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)	N.D.	5	3000

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Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

▼ Hexachlorobutadiene (HCBD)

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018*¹; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	001		
Hexachlorobutadiene (HCBD)	N.D.	5	N.D.

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

▼ Pentachlorothiophenol (PCTP)

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018*¹; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	001		
Pentachlorothiophenol (PCTP)	N.D.	5	10000

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Black body(Tested as a whole)

Remark:

- The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology.The result(s) shown on this report may be different from the content of any homogeneous material.

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3.1 Test Method

Tested Item(s)	Test Method	Measured Equipment(s)
Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2019:01 PAK	GC-MS
Arsenic(As)	Refer to US EPA 3052:1996 & US EPA 6010D:2018*1	ICP-OES
Beryllium(Be)	Refer to US EPA 3052:1996 & US EPA 6010D:2018*1	ICP-OES
Antimony(Sb)	Refer to US EPA 3052:1996 & US EPA 6010D:2018*1	ICP-OES
Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS

3.2 Test Result(s)

Tested Item(s)	Result	MDL
	001	
Polycyclic Aromatic Hydrocarbons (PAHs)		
Naphthalene	N.D.	0.2 mg/kg
Phenanthrene	N.D.	0.2 mg/kg
Anthracene	N.D.	0.2 mg/kg
Fluoranthene	N.D.	0.2 mg/kg
Pyrene	N.D.	0.2 mg/kg
Chrysene	N.D.	0.2 mg/kg
Benzo(a)anthracene	N.D.	0.2 mg/kg
Benzo(b)fluoranthene	N.D.	0.2 mg/kg
Benzo(k)fluoranthene	N.D.	0.2 mg/kg
Benzo(j)fluoranthene	N.D.	0.2 mg/kg
Benzo(a)pyrene	N.D.	0.2 mg/kg
Benzo(e)pyrene	N.D.	0.2 mg/kg
Dibenzo(a,h)anthracene	N.D.	0.2 mg/kg
Benzo(g,h,i)perylene	N.D.	0.2 mg/kg
Indeno(1,2,3-cd)pyrene	N.D.	0.2 mg/kg
Sum (Phenanthrene, Anthracene, Fluoranthene, Pyrene)	N.D.	/
Sum 15 PAHs	N.D.	/

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Maximum PAHs limits (mg/kg) for the materials with relevant contact/grip and operating surfaces that are to be categorised based on the results of the risk assessment

Parameters	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials in toys according to Directive 2009/48/EC or materials for the use by children up to 3 years of age coming into long-term contact with skin (more than 30s) during the intended use	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact** with skin during the intended or foreseeable use	Use by children (< 14 years) (include both active and passive direct contact)	Other consumer products	Use by children (< 14 years) (include both active and passive direct contact)
Benzo(a)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenz(a,h)anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indenol(1,2,3-cd)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene, Anthracene, Fluoranthene, Pyrene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene	< 1	< 2		< 10	
Sum 15 PAHs	< 1	< 5	< 10	< 20	< 50

** Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (REGULATION (EU) No.1272/2013)

Tested Item(s)	Result	MDL
	001	
Arsenic (As)	N.D.	10 mg/kg

Tested Item(s)	Result	MDL
	001	
Beryllium (Be)	N.D.	10 mg/kg

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Tested Item(s)	Result	MDL
	001	
Antimony (Sb)	N.D.	10 mg/kg

Tested Item(s)	Result	MDL
	001	
Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Black body(Tested as a whole)

Remark: The sample(s) had been dissolved totally tested for Arsenic, Beryllium, Antimony.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

- The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.

Note: “*1” indicates the method(s) is (are) not in CNAS accreditation scope.

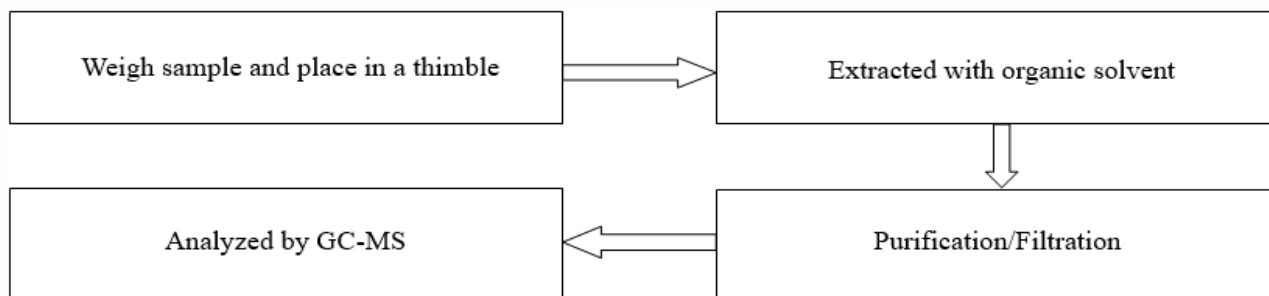
Test Report

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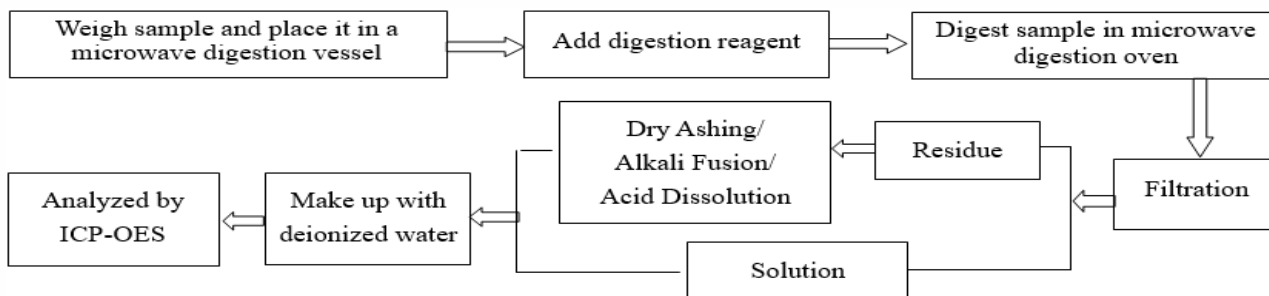
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3.3 Test Process

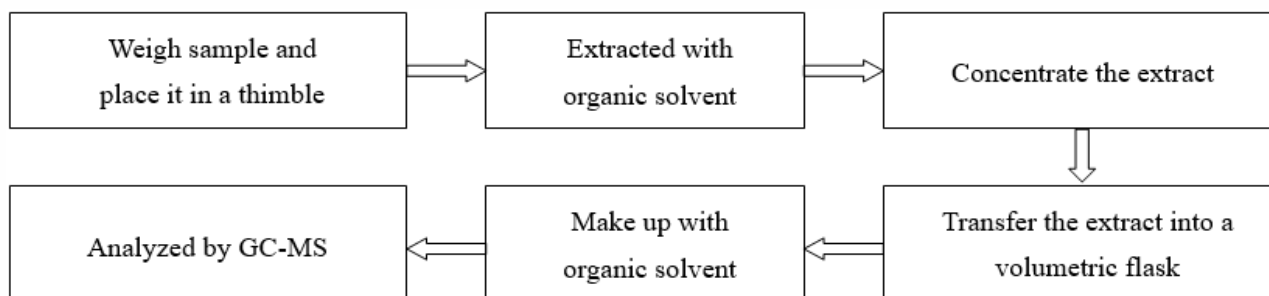
3.3.1. Polycyclic Aromatic Hydrocarbons (PAHs)



3.3.2. Arsenic(As), Beryllium(Be), Antimony(Sb)



3.3.3. Hexabromocyclododecane (HBCDD)

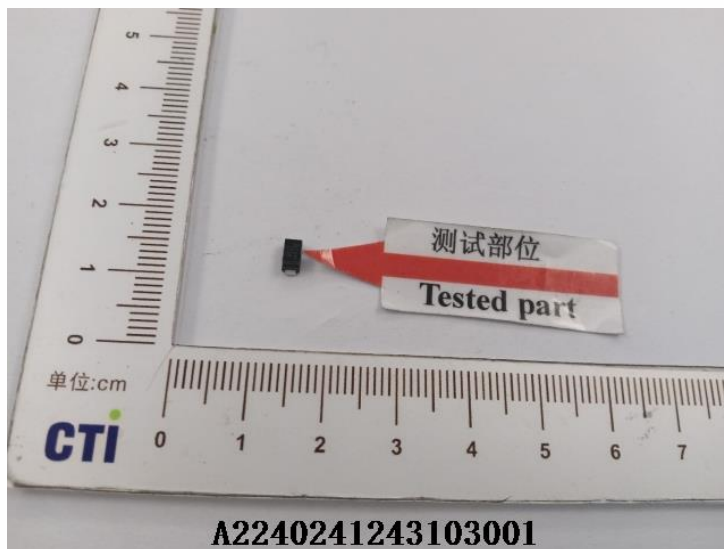


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Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;
6. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of Report ***

Appendix

Client Reference Information

0201,0201-A,CSP0201,CSP1006-2,DFN-10,DFN1006-2,DFN1006-2L,DFN1006-3,DFN1006-3A,DFN1308-5,DFN1510-6,DFN1608-2,DFN1610-2,DFN1610-6,DFN1616-6,DFN1616-6L,DFN2020-3A,DFN2020-3L,DFN2020-6G,DFN2020-6J,DFN2020-6JA,DFN2020-6L,DFN2020-6LE,DFN2030-6,DFN2030-6L,DFN2626-10,DFN3030,DFN3030-4L,DFN3030-8,DFN3333,DFN3333-8,DFN3333-D,DFN4120-10,DFN5060,DFN5060-8D,DFN5060-8L,DFN8080A,SOD-123,SOD-323,SOD-323FL,SOD-523,SOD-723,SOD-923,SOP-8,SOT-143,SOT-223,SOT-23,SOT-23-3L,SOT23-5L,SOT23-6L,SOT-323,SOT-353,SOT-363,SOT-523,SOT-563,SOT-723,SOT-89,TSSOP-8,0402,0603,SOT-553,DFN1210-6,SOT-883,DFN3810-9,DFN2510-10,DFN3020-10,DFN0808-4,DFN1608-2L,DFN2020-6LA,DFN8080,A-405,AK,DO-15,DO-201AD,DO-201AE,DO-41,R-3,R-6,R-1,D2-PAK,DO-215AA,DO-218AB,DO-221AC,DPAK,LMB-1,MBLS-1,MBS-1,SDB-1,SDBL-1,SMA,SMB,SMBF,SMC,SME,SMG,SMPA,SOD-123FL,SOD-123HE,SOD-123HE1,SOD-123HT,SOD-323FH,SOD-323HE,TBL,TBS,TO-277,TOLL-8L,SMAE,HSMC,HSMB,HSMA,TO-277B,TBSL,SOD-323HL,SOD-123TFL,TBN,D3K,DB-1,DBL-1,GBJ,GBL,GBP,GBPC,GBPC-H,GBPC-W,GBU,ITO-220AB,ITO-220AC,JA,JB,KBJ,MB-35,MB-35W,MP-50,MP-50W,MT-35A,PB,PB-10,PB-6,RS-4L,RS-6,TO-220,TO-220AB,TO-220AB(H),TO-220AC,TO-220F,TO-247,TO-247-2L,TO-247AB,TO-247AC,TO-247AD,TO-247P,TO-262,TO-262L,TSB-5,TO-92,TO-251,TO-251S,TO-247-4,MT-35B,GBPC-L,D1,D2,D3,F2,F3,F4,F6,FJ,L1,M5,T2,M4,M2,M3,T1,L2,F1,M1,F4N,T4,T6,D1N,M7,E1,E1A,E2A,P2,P1,T3,C2,T-18,LEADED

BUTTON,PRESSFIT,FBP-02L,MFN-9-1,SOD-882,SOT23-3L,SOT-343,FBP,WFBP,SO-8,QFN,1206,2510,TO-92S,TO-92L,TO-92MOD,MSOP-10,0201-B,TO-220AC,SOD-882E,D2PACK,0201-C,DFN1006-2A,DFN1006-2B,DFN1006-2C,DFN5060-SL,DFN2020-3,DFN2020-6U,DFN5060-8,MELF,RA,SRA,SMAL,SMA-FL,SMAG,SMBG,SMCG,RA

BUTTON,SRA

BUTTON,TO-277A,DFN2510-10L,TO-126,TO-220AB(H),ITO-220AC,ITO-220,TO-3P,TO-220,TO-1S,TO-39,TO-3,T O-66,RB-15,WOM,WOL,BR-6,BR-8D,KBP,KBPL,KBPC,KBPM,PB-3,GBJL,RS-1,RS-4M,RS-6M,RS-15M,RS-20M,RS-25M,MB-35(W),MP-50(W),MT,MB-1,KBPR,D4,TOLL,DFN1609-2L,BUTTON,KBU,KBJL,ITO-220AB,TO-220AC,D2PACK,DFN2510-10L,DFN2020-6JA,DFN2020-6LA,DFN2030-6L,DFN3030,DFN3333,GBPC-H,TBL,TO-247AD,TOLL,DFN1609-2L,BUTTON,KBU,KBJL,GBPC-W,C1,CSP01005,DFN1010B-6,DFN1110-3(SWF),DFN1510-6A,DFN2010-5(SWF),DFN2020-6S,DFN2510-10(SWF),DFN3333-8(SWF),DFN5060-C,DFN5060-DSC,E2,E3,JC,NM3,P2S,P3S,PDFN3333-B,PDFN5060-8D,SOD-123HL,SOD-323HE-B,SOT-363S,TO-247Plus,TO-263-7,TO-263-7L,TO-263AC,TO-264P

Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2240241243103001.