



TEST REPORT

Report No.: STSGZ2304033003E-V1

Date: 23-May-2023

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Applicant: Zendure USA Inc.

Address: 1765 E BAYSHORE RD # 201 EAST PALO ALTO, CA 94303-5501

The following sample(s) and sample information was/were submitted and identified by client as:

Item Name: Smart PVHub 1200

Model: ZDSPVH1200

Manufacturer: ZENDURE TECHNOLOGY CO., LIMITED

Manufacturer Address: RM 517, NEW CITY CENTRE, 2 LEI YUE MUN ROAD, KWUN TONG, KOWLOON.HK

Brand: **ZENDURE**
SuperCharged[®]

Receiving Date: 3-Apr-2023

Test Period: 3-Apr-2023 - 10-Apr-2023

Add Information: This report replaces the original report STSGZ2304033003E and the original report is invalid.

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	The 233 substances in the Candidate List of Substances of Very High Concern (SVHC) for Authorisation published by European Chemicals Agency (ECHA), regarding the Regulation (EC) No. 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)	In-house method, determined by GC/MS, LC/MS/MS, ICP-OES, UV-Vis, HPLC and IC	PASS

Signed for and on behalf of STS

Mark Mai
(Technical Director)



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Result:

Substances Name	CAS No.	Result (%)	
		1	2
All tested SVHC in candidate list	-	N.D.	N.D.

1. Full list - Substances of Very High Concern (SVHC) In-house method, determined by GC/MS, LC/MS/MS, ICP-OES, UV-Vis, HPLC and IC

Compound		CAS No.	RL (%)
1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.01
2	5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2	0.01
3	Alkanes,C10-13,chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.01
4	Anthracene	120-12-7	0.01
5	Benzyl butyl phthalate (BBP)	85-68-7	0.01
6	Bis(2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	0.01
7	Bis(tributyltin) oxide (TBTO)	56-35-9	0.01
8	Cobalt dichloride **	7646-79-9	0.01
9	Diarsenic pentaoxide **	1303-28-2	0.01
10	Diarsenic trioxide **	1327-53-3	0.01
11	Dibutyl phthalate (DBP)	84-74-2	0.01
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	25637-99-4 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	0.01
13	Lead hydrogen arsenate **	7784-40-9	0.01
14	Sodium dichromate**	7789-12-0 10588-01-9	0.01

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15	Triethyl arsenate**	15606-95-8	0.01
16	2,4-Dinitrotoluene	121-14-2	0.01
17	Acrylamide	79-06-1	0.01
18	Anthracene oil	90640-80-5	0.01
19	Anthracene oil, anthracene paste	90640-81-6	0.01
20	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.01
21	Anthracene oil, anthracene paste, distn. lights	91995-17-4	0.01
22	Anthracene oil, anthracene-low	90640-82-7	0.01
23	Diisobutyl phthalate (DIBP)	84-69-5	0.01
24	Lead chromate **	7758-97-6	0.01
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) **	12656-85-8	0.01
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34) **	1344-37-2	0.01
27	Pitch, coal tar, high temp	65996-93-2	0.01
28	Tris(2-chloroethyl) phosphate	115-96-8	0.01
29	Ammonium dichromate **	7789-09-5	0.01
30	Boric acid **	10043-35-3 11113-50-1	0.01
31	Disodium tetraborate, anhydrous **	1330-43-4 12179-04-3 1303-96-4	0.01
32	Potassium chromate **	7789-00-6	0.01
33	Potassium Dichromate **	7778-50-9	0.01
34	Sodium chromate **	7775-11-3	0.01
35	Tetraborate disodium heptaoxide,hydrous **	12267-73-1	0.01
36	Trichloroethylene	79-01-6	0.01
37	2-Ethoxyethanol	110-80-5	0.01
38	2-Methoxyethanol	109-86-4	0.01
39	Chromic acid** Dichromic acid**	7738-94-5 13530-68-2	0.01

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	Oligomers of chromic acid and dichromic acid**	--	
40	Chromium trioxide**	1333-82-0	0.01
41	Cobalt(II) carbonate **	513-79-1	0.01
42	Cobalt(II) diacetate **	71-48-7	0.01
43	Cobalt(II) dinitrate **	10141-05-6	0.01
44	Cobalt(II) sulphate **	10124-43-3	0.01
45	1,2,3-Trichloropropane	96-18-4	0.01
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	0.01
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)*	68515-42-4	0.01
48	1-methyl-2-pyrrolidone	872-50-4	0.01
49	2-Ethoxyethyl acetate	111-15-9	0.01
50	Hydrazine	7803-57-8; 302-01-2	0.01
51	Strontium chromate**	7789-06-2	0.01
52	1,2-Dichloroethane	107-06-2	0.01
53	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.01
54	2-Methoxyaniline; o-Anisidine	90-04-0	0.01
55	4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)	140-66-9	0.01
56	Aluminosilicate Refractory Ceramic Fibres(RCF) **	--	0.01
57	Arsenic acid**	7778-39-4	0.01
58	Bis(2-methoxyethyl) ether	111-96-6	0.01
59	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	0.01
60	Calcium arsenate**	7778-44-1	0.01
61	Dichromium tris(chromate) **	24613-89-6	0.01
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	0.01
63	Lead diazide Lead azide**	13424-46-9	0.01

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64	Lead dipicrate**	6477-64-1	0.01
65	Lead styphnate**	15245-44-0	0.01
66	N,N-dimethylacetamide (DMAC)	127-19-5	0.01
67	Pentazinc chromate octahydroxide**	49663-84-5	0.01
68	Phenolphthalein	77-09-8	0.01
69	Potassium hydroxyoctaoxidizincatedichromate **	11103-86-9	0.01
70	Trilead diarsenate**	3687-31-8	0.01
71	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	--	0.01
72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene] cyclohexa-2, 5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	0.01
73	[4-[4,4' -bis (dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	0.01
74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.01
75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.01
76	4,4'-bis(dimethylamino) benzophenone (Michler' s Ketone)	90-94-8	0.01
77	4,4'-bis(dimethylamino)-4''- (methylamino)trityl alcohol	561-41-1	0.01
78	Diboron trioxide**	1303-86-2	0.01
79	Formamide	75-12-7	0.01
80	Lead (II) bis (methanesulfonate)**	17570-76-2	0.01
81	N,N,N',N'-tetramethyl -4,4'- methylenedianiline (Michler'sbase)	101-61-1	0.01
82	TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.01
83	α , α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	0.01
84	β -TGIC (1,3,5-tris[(2S and 2R)-2,3- epoxypropyl]-1,3,5-triazine-2,4,6- (1H,3H,5H)-trione)	59653-74-6	0.01
85	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)**	69011-06-9	0.01
86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.01

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87	1,2-Diethoxyethane	629-14-1	0.01
88	1-Bromopropane; n-propyl bromide	106-94-5	0.01
89	3-Ethyl-2-methyl-2-(3-methylbutyl)- 1,3-oxazolidine	143860-04-2	0.01
90	4-(1,1,3,3-tetramethylbutyl) phenol, Ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues	--	0.01
91	4,4'-Methylenedi-o-toluidine	838-88-0	0.01
92	4,4'-Oxydianiline and its salts	101-80-4	0.01
93	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	0.01
94	4-Methyl-m-phenylenediamine (2,4- toluene-diamine)	95-80-7	0.01
95	4-Nonylphenol, branched and linear-substrances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB-and well- defined substances which include any of the individual isomers or a combination thereof	--	0.01
96	6-Methoxy-m-toluidine (p- cresidine)	120-71-8	0.01
97	Acetic acid, lead salt, basic**	51404-69-4	0.01
98	Biphenyl-4-ylamine	92-67-1	0.01
99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.01
100	Cyclohexane-1,2-dicarboxylic Anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7, 13149-00-3, 14166-21-3	0.01
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.01
102	Dibutyltin dichloride (DBTC)	683-18-1	0.01
103	Diethyl sulphate	64-67-5	0.01
104	Diisopentylphthalate (DIPP)	605-50-5	0.01
105	Dimethyl sulphate	77-78-1	0.01
106	Dinoseb	88-85-7	0.01
107	Dioxobis(stearato)trilead**	12578-12-0	0.01
108	Fatty acids, C16-18, lead salts**	91031-62-8	0.01
109	Furan	110-00-9	0.01

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110	Henicosafuoroundecanoic acid	2058-94-8	0.01
111	Heptacosafuorotetradecanoic acid	376-06-7	0.01
112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	0.01
113	Lead bis(tetrafluoroborate)**	13814-96-5	0.01
114	Lead cyanamidate**	20837-86-9	0.01
115	Lead dinitrate**	10099-74-8	0.01
116	Lead oxide (Lead monoxide)**	1317-36-8	0.01
117	Lead oxide sulfate (basic lead sulfate)**	12036-76-9	0.01
118	Lead tetroxide (orange lead)**	1314-41-6	0.01
119	Lead titanium trioxide**	12060-00-3	0.01
120	Lead Titanium Zirconium Oxide**	12626-81-2	0.01
121	Methoxy acetic acid	625-45-6	0.01
122	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	0.01
123	N,N-dimethylformamide; dimethylformamide	68-12-2	0.01
124	N-methylacetamide	79-16-3	0.01
125	N-pentyl-isopentylphthalate	776297-69-9	0.01
126	o-Aminoazotoluene	97-56-3	0.01
127	o-Toluidine; 2- Aminotoluene	95-53-4	0.01
128	Pentacosafuorotridecanoic acid	72629-94-8	0.01
129	Pentalead tetraoxide sulphate**	12065-90-6	0.01
130	Pyrochlore, antimony lead yellow**	8012-00-8	0.01
131	Silicic acid, barium salt, lead-doped**	68784-75-8	0.01
132	Silicic acid, lead salt**	11120-22-2	0.01
133	Sulfurous acid, lead salt, dibasic**	62229-08-7	0.01

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134	Tetraethyllead**	78-00-2	0.01
135	Tetralead trioxide sulphate**	12202-17-4	0.01
136	Tricosafuorododecanoic acid	307-55-1	0.01
137	Basic lead carbonate(trilead bis(carbonate)dihydroxide) **	1319-46-6	0.01
138	Trilead dioxide phosphonate**	12141-20-7	0.01
139	4-Nonylphenol (branched and linear) ethoxy ether	-	0.01
140	APEO	3825-26-1	0.01
141	Cadmium oxide**	1306-19-0	0.01
142	Cd	7440-43-9	0.01
143	DPP	131-18-0	0.01
144	PFOA	335-67-1	0.01
145	Cadmium sulphide**	1306-23-6	0.01
146	Dihexyl phthalate	84-75-3	0.01
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.01
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.01
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.01
150	Lead di(acetate) **	301-04-2	0.01
151	Trixylyl phosphate	25155-23-1	0.01
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.01
153	Cadmium chloride**	10108-64-2	0.01
154	Sodium perborate; perboric acid, sodium salt**	-	0.01
155	Sodium peroxometaborate**	7632-04-4	0.01
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.01
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.01

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158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	0.01
159	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	0.01
160	Cadmium fluoride**	7790-79-6	0.01
161	Cadmium sulphate**	10124-36-4; 31119-53-6	0.01
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyldiesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	68515-51-5, 68648-93-1	0.01
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.01
164	Nitrobenzene	98-95-3	0.01
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.01
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.01
167	1,3-propanesultone	1120-71-4	0.01
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	0.01
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.01
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.01
171	4-heptylphenol, branched and linear (4-HPbl)	/	0.01
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	0.01
173	p-(1,1-dimethylpropyl)phenol (PTAP)	80-46-6	0.01
174	Perfluorohexane-1-sulphonic acid and its salts(PFHXS)	/	0.01
175	Chrysene	218-01-9 1719-03-5	0.01
176	Benz[a]anthracene	56-55-3 1718-53-2	0.01

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177	Cadmium nitrate **	10325-94-7 10022-68-1	0.01
178	Cadmium hydroxide **	21041-95-2	0.01
179	Cadmium carbonate **	513-78-0	0.01
180	Dechlorane Plus(TM)	-	0.01
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]	-	0.01
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.01
183	Decamethylcyclopentasiloxane (D5)	541-02-6	0.01
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.01
185	Lead	7439-92-1	0.01
186	Disodium octaborate**	12008-41-2	0.01
187	Benzo[ghi]perylene	191-24-2	0.01
188	Terphenyl hydrogenated	61788-32-7	0.01
189	Ethylenediamine (EDA)	107-15-3	0.01
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.01
191	Dicyclohexyl phthalate (DCHP)	84-61-7	0.01
192	Pyrene	129-00-0; 1718-52-1	0.01
193	Phenanthrene	85-01-8	0.01
194	Fluoranthene	206-44-0; 93951-69-0	0.01
195	Benzo[k]fluoranthene	207-08-9	0.01
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.01
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	0.01
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, Its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.01
199	4-tert-butylphenol	98-54-4	0.01

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A301&A401, 3/F.&4/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong, China
Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699

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200	2-methoxyethyl acetate	110-49-6	0.01
201	Tris(4-nonylphenyl, branched and linear) phosphate(TNPP) with $\geq 0.1\%$ W/W of 4-nonylphenol, branched and linear(4-NP)	-	0.01
202	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.01
203	Diisohexyl phthalate	71850-09-4	0.01
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.01
205	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.01
206	1-vinylimidazole	1072-63-5	0.01
207	2-methylimidazole	693-98-1	0.01
208	Butyl 4-hydroxybenzoate	94-26-8	0.01
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	0.01
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	0.01
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	0.01
212	1,4-dioxane	123-91-1	0.01
213	2,2-bis(bromomethyl)propane 1,3-diol(BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 36483-57-5/1522-92-5 96-13-9	0.01
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.01
215	4,4'-(1-methylpropylidene)bisphenol;(bisphenol B)	77-40-7	0.01
216	Glutaral	111-30-8	0.01
217	Medium-chain chlorinated paraffins(MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.01
218	Orthoboric acid, sodium salt	13840-56-7	0.01
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)	-	0.01
220	(\pm)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one	-	0.01

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	covering any of the individual isomers and/or combinations thereof (4-MBC)		
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	0.01
222	S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.01
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.01
224	N-hydroxymethyl acrylamide	924-42-5	0.01
225	1,1'-[ethane-1,2-diylbisoxo]bis[2,4,6-tribromobenzene]	37853-59-1	0.01
226	2,2',6,6'-tetrabromo-4,4'-isopropylidene diphenol	79-94-7	0.01
227	4,4'-sulphonyldiphenol	80-09-1	0.01
228	Barium diboron tetraoxide	13701-59-2	0.01
229	Bis(2-ethylhexyl tetrabromophthalate Covering any of the individual isomers and / or combinations thereof	-	0.01
230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.01
231	Melamine	108-78-1	0.01
232	Perfluoroheptanoic acid and its salts	-	0.01
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropyl an-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	0.01

- Note:
- RL: Report limit
 - N.D.: Not detected (result is less than RL)
 - *The detected DHNUP are consisted of six phthalates which CAS number is 85507-79-5, 68515-44-6, 68515-45-7, 111381-89-6, 111381-90-9 and 111381-91-0 according to the Annex 15 of REACH.
 - **According to the 5.2.1 item of the fourth version of ECHA "Guidance on requirements for substances in articles", 2017, if the selected test methods only show the existence of certain elements rather than the existence of substances, additional measurements may be taken to screen for the existence of a substance in a sample(s) when necessary.
 - Report Results: as in most cases, the measurements will identify the chemical constituents in the sample(s) but not necessarily "the substance" which were originally used to produce the article, professional consultations, product information, testing processes, features of materials, characteristics of the SVHC and chemical analysis etc shall be used to obtain the assessment results according to the 5.2 item of the fourth version of ECHA "Guidance on requirements for substances in articles", 2017.
 - Report Limit: Obtained from the uncertainty, the 0.1% threshold and the ECHA "Guidance on requirements for substances in articles".

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Material List:

Material #	Position / Sample Description
1	Metal
2	Non-metal

Photo(s):



Product Photo

<<< << END OF REPORT >> >>>

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签发测试报告条款

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