

# Test Report

No. SZARR171201002-01

Date: Jan. 10, 2018

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**Applicant** : Shanghai High-Flying Electronics Technology Co., Ltd  
**Address** : Room 1002,#1 Building A, No.3000 Longdong Avenue, Pudong,  
Shanghai

**The submitted sample and sample information was/were submitted and identified by/on the behalf of the client**

**Sample name** : WiFi Serial Device Server

**Model No.** : HF2211

**Sample received date** : Dec. 01, 2017

**Testing period** : Dec. 01, 2017 to Jan. 10, 2018

**Test requested** : As specified by client, based on the list published by European chemicals agency (ECHA) for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the one hundred and seventy-four (174) Substances of Very High Concern (SVHC) in the submitted sample.

**Test Method:** Please refer to the following page(s).

**Test Result(s):** Please refer to the following page(s).

**Summary:**

According to the specified scope and analytical techniques, concentrations of SVHC are less than 0.1%(w/w) in the submitted sample.

PASS

Tested by Willow Liu  
Willow Liu  
Test engineer

Reviewed by Joe Wang  
Joe Wang  
Test engineer

Approved by Leo Li  
Leo Li  
Laboratory director



**Shenzhen Anbotek Compliance Laboratory Limited**

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## Tested Sample/Part Description:

A# Metal mixed  
B# Nonmetal mixed

## Test Method:

The first fifteen Substances of Very High Concern (Released in Oct, 2008)

Code	Chemical Substance	Method
1	Bis(tributyltin)oxide (TBTO)	EN ISO 17353, GC-MS
2	Diarsenic pentaoxide**	EPA 3052, ICP-OES
3	Diarsenic trioxide**	
4	Triethyl arsenate**	
5	Lead hydrogen arsenate**	
6	Cobalt dichloride**	
7	Sodium dichromate **	IEC 62321-7-1:2015 Ed.1.0 or IEC 62321-7-2:2017 Ed.1.0, UV-VIS
8	Anthracene	AfPS GS 2014:01 PAK, GC-MS
9	4,4'-Diaminodiphenylmethane (MDA)	EPA 3540C, GC-MS
10	Dibutyl phthalate (DBP)	
11	Benzyl butyl phthalate (BBP)	
12	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	
13	Di-2-ethylhexyl phthalate(DEHP)	
14	Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified	
15	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	

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The second thirteen Substances of Very High Concern (Released in Jan, 2010 and Mar, 2010)

Code	Chemical Substance	Method
16	Anthracene oil	AfPS GS 2014:01 PAK, GC-MS
17	Anthracene oil, anthracene paste, distn. lights	
18	Anthracene oil, anthracene paste, anthracene fraction	
19	Anthracene oil, anthracene-low	
20	Anthracene oil, anthracene paste	
21	Pitch, coal tar, high temp.	Distillation
22	Acrylamide	EPA 3540C, HPLC
23	2,4-Dinitrotoluene	EPA 3540C, GC-MS
24	Diisobutyl phthalate (DIBP)	
25	Lead chromate**	EPA 3052, ICP-OES
26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) **	
27	Lead sulphochromate yellow (C.I. Pigment Yellow 34) **	
28	Tris(2-chloroethyl)phosphate	EPA 3540C, GC-MS

The third eight Substances of Very High Concern (Released in Jun, 2010)

Code	Chemical Substance	Method
29	Trichloroethylene	EPA 3540C, GC-FID
30	Boric acid**	EPA 3052, ICP-OES
31	Disodium tetraborate, anhydrous**	
32	Tetraboron disodium heptaoxide, hydrate**	
33	Sodium chromate**	IEC 62321-7-1:2015 Ed.1.0 or IEC 62321-7-2:2017 Ed.1.0, UV-VIS
34	Potassium chromate**	
35	Ammonium dichromate**	
36	Potassium dichromate**	



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The fourth eight Substances of Very High Concern (Released in Dec, 2010)

Code	Chemical Substance	Method
37	Cobalt(II) sulphate**	EPA 3052, ICP-OES
38	Cobalt(II) dinitrate**	
39	Cobalt(II) carbonate**	
40	Cobalt(II) diacetate**	
41	2-Methoxyethanol	EPA8260C,HS-GC-FID
42	2-Ethoxyethanol	
43	Chromium trioxide**	IEC 62321-7-1:2015 Ed.1.0 or IEC 62321-7-2:2017 Ed.1.0, UV-VIS
44	Acids generated from chromium trioxide and their oligomers	Chromic acid**
		Dichromic acid**
		Oligomers of chromic acid and dichromic acid**

The fifth seven Substances of Very High Concern (Released in Jun, 2011)

Code	Chemical Substance	Method
45	2-Ethoxyethyl acetate	EPA8260C,HS-GC-FID
46	Strontium chromate**	IEC 62321-7-1:2015 Ed.1.0 or IEC 62321-7-2:2017 Ed.1.0, UV-VIS
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)*	EPA 3540C, GC-MS
48	Hydrazine	EPA8260C,HS-GC-FID
49	1-Methyl-2-pyrrolidone	EPA 3540C, GC-FID
50	1,2,3-Trichloropropane	
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich(DIHP)	EPA 3540C, GC-MS

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The sixth twenty Substances of Very High Concern (Released in Dec, 2011)

Code	Chemical Substance	Method
52	Dichromium tris(chromate)**	IEC 62321-7-1:2015 Ed.1.0 or IEC 62321-7-2:2017 Ed.1.0, UV-VIS
53	Potassium hydroxyoctaoxodizincatedichromate**	
54	Pentazinc chromate octahydroxide**	
55	Aluminosilicate Refractory Ceramic Fibres (RCF)**	EPA 3052, ICP-OES
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	EPA 3540C, HPLC
58	Bis(2-methoxyethyl) phthalate (DMEP)	EPA 3540C, GC-MS
59	2-Methoxyaniline; o-Anisidine	EPA 3540C, GC-MS
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	EPA 3540C, HPLC
61	1,2-Dichloroethane	EPA 3540C, GC-FID
62	Bis(2-methoxyethyl) ether	EPA8260C,HS-GC-FID
63	Arsenic acid**	EPA 3052, ICP-OES
64	Calcium arsenate**	
65	Trilead diarsenate**	
66	N,N-dimethylacetamide (DMAC)	EPA 3540C, HPLC
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	EPA 3540C, GC-MS
68	Phenolphthalein	EPA 3540C, HPLC
69	Lead diazide Lead azide **	EPA 3052, ICP-OES
70	Lead styphnate**	
71	Lead dipicrate**	

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The seventh thirteen Substances of Very High Concern (Released in Jun, 2012)

Code	Chemical Substance	Method
72	1,2-bis(2-methoxyethoxy)ethane(TEGDME; triglyme)	EPA8260C,HS-GC-FID
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	
74	Diboron trioxide**	EPA 3052, ICP-OES
75	Formamide	EPA 3540C, HPLC
76	Lead(II) bis(methanesulfonate) **	EPA 3052, ICP-OES
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	EPA 3540C, HPLC
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	
83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	



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The eighth fifty-four Substances of Very High Concern (Released in Dec, 2012)

Code	Chemical Substance	Method
85	Bis(pentabromophenyl) ether (DecaBDE)	EPA 3540C, GC-MS
86	Pentacosafuorotridecanoic acid	EPA 3540C, LC-MS
87	Tricosafuorododecanoic acid	
88	Henicosafuoroundecanoic acid	
89	Heptacosafuorotetradecanoic acid	
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	EPA 3540C, HPLC
91	4-Nonylphenol, branched and linear - substances 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	
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	
94	Hexahydromethylphthalic anhy, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	EPA 3540C, GC-MS
95	Methoxy acetic acid	EPA 3540C, LC-MS
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	EPA 3540C, GC-MS
97	Diisopentylphthalate (DIPP)	
98	N-pentyl-isopentylphthalate	
99	1,2-Diethoxyethane	EPA8260C,HS-GC-FID
100	N,N-dimethylformamide; dimethyl formamide	EPA 3540C, HPLC
101	Dibutyltin dichloride (DBTC)	EN ISO 17353, GC-MS

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Code	Chemical Substance	Method
102	Acetic acid, lead salt, basic**	EPA 3052, ICP-OES
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide) **	
104	Lead oxide sulfate (basic lead sulfate) **	
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate) **	
106	Dioxobis(stearato)trilead**	
107	Fatty acids, C16-18, lead salts**	
108	Lead bis(tetrafluoroborate) **	
109	Lead cyanamate**	
110	Lead dinitrate**	
111	Lead oxide (lead monoxide) **	
112	Lead tetroxide (orange lead) **	
113	Lead titanium trioxide**	
114	Lead Titanium Zirconium Oxide**	
115	Pentalead tetraoxide sulphate**	
116	Pyrochlore, antimony lead yellow**	
117	Silicic acid, barium salt, lead-doped**	
118	Silicic acid, lead salt**	
119	Sulfurous acid, lead salt, dibasic**	
120	Tetraethyllead**	
121	Tetralead trioxide sulphate**	
122	Trilead dioxide phosphonate**	
123	Furan	EPA 3540C, GC-FID
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	
125	Diethyl sulphate	
126	Dimethyl sulphate	EPA 3540C, GC-MS
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	

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Code	Chemical Substance	Method
128	Dinoseb	EPA 3540C, HPLC
129	4,4'-methylenedi-o-toluidine	EPA 3540C, GC-MS
130	4,4'-oxydianiline and its salts	
131	4-Aminoazobenzene; 4-Phenylazoaniline	
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	
133	6-methoxy-m-toluidine (p-cresidine)	
134	Biphenyl-4-ylamine	
135	o-aminoazotoluene	
136	o-Toluidine; 2-Aminotoluene	
137	N-methylacetamide	EPA 3540C, HPLC
138	1-bromopropane; n-propyl bromide	EPA 3540C, GC-FID

The ninth six Substances of Very High Concern (Released in Jun, 2013)

Code	Chemical Substance	Method
139	Cadmium **	EPA 3052, ICP-OES
140	Cadmium oxide **	
141	Dipentyl phthalate (DPP)	EPA 3540C, GC-MS
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues]	EPA 3540C, HPLC
143	Ammonium pentadecafluorooctanoate (APFO)	EPA 3540C, LC-MS
144	Pentadecafluorooctanoic acid (PFOA)	

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The tenth seven Substances of Very High Concern (Released in Dec, 2013)

Code	Chemical Substance	Method
145	Cadmium sulphide**	EPA 3052, ICP-OES
146	Diethyl phthalate	EPA 3540C, GC-MS
147	C.I. Direct Red 28	EPA 3540C, LC-MS
148	C.I. Direct Black 38	
149	2-imidazoline-2-thiol	
150	Lead di(acetate)**	EPA 3052, ICP-OES
151	Triethyl phosphate	EPA 3540C, GC-MS

The eleventh four Substances of Very High Concern (Released in Jun, 2014)

Code	Chemical Substance	Method
152	1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear	EPA 3540C, GC-MS
153	Cadmium chloride**	EPA 3052, ICP-OES
154	Sodium perborate; perboric acid, sodium salt**	
155	Sodium peroxometaborate**	

The Twelfth six Substances of Very High Concern (Released in Dec, 2014)

Code	Chemical Substance	Method
156	Cadmium fluoride**	EPA 3052, ICP-OES
157	Cadmium sulphate**	
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	EPA 3540C, HPLC
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	

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Code	Chemical Substance	Method
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	EPA 3540C, GC-MS
161	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)	

The Thirteenth two Substances of Very High Concern (Released in Jun, 2015)

Code	Chemical Substance	Method
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters	EPA 3540C, GC-MS
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]	EPA 3540C, GC-MS

The Fourteen five Substances of Very High Concern (Released in Dec, 2015)

Code	Chemical Substance	Method
164	Nitrobenzene	EPA 3550C, GC-MS
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	EPA 3550C, HPLC
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	
167	1,3-propanesultone	EPA 3550C, GC-MS
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	EPA 3550C, LC-MS



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The Fifteen one Substance of Very High Concern (Released in Jun, 2016)

Code	Chemical Substance	Method
169	Benzo[def]chrysene (Benzo[a]pyrene)	AfPS GS 2014:01 PAK, GC-MS

The Sixteen four Substance of Very High Concern (Released in Jan, 2017)

Code	Chemical Substance	Method
170	4,4'-isopropylidenediphenol (bisphenol A)	EPA 3540C, HPLC
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	
172	p-(1,1-dimethylpropyl)phenol	
173	4-heptylphenol, branched and linear (4-HPbl)	

The Seventeen one Substance of Very High Concern (Released in Jul, 2017)

Code	Chemical Substance	Method
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	EPA 3550C, LC-MS


## Report Result(s):

The first fifteen Substances of Very High Concern (Released in Oct, 2008)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
1	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	0.005	N.D.	N.D.
2	Diarsenic pentaoxide**	1303-28-2	215-116-9	0.01	N.D.	N.D.
3	Diarsenic trioxide**	1327-53-3	215-481-4	0.01	N.D.	N.D.
4	Triethyl arsenate**	15606-95-8	427-700-2	0.01	N.D.	N.D.
5	Lead hydrogen arsenate**	7784-40-9	232-064-2	0.01	N.D.	N.D.
6	Cobalt dichloride**	7646-79-9	231-589-4	0.01	N.D.	N.D.
7	Sodium dichromate **	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
8	Anthracene	120-12-7	204-371-1	0.005	N.D.	N.D.
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	0.005	N.D.	N.D.
10	Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.005	N.D.	N.D.
11	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.005	N.D.	N.D.
12	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	0.005	N.D.	N.D.
13	Di-2-ethylhexyl phthalate(DEHP)	117-81-7	204-211-0	0.005	N.D.	N.D.
14	Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified	25637-99-4, 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	247-148-4, 221-695-9	0.005	N.D.	N.D.
15	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	0.01	N.D.	N.D.

The second thirteen Substances of Very High Concern (Released in Jan, 2010 and Mar, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
16	Anthracene oil	90640-80-5	292-602-7	0.05	N.D.	N.D.
17	Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	0.05	N.D.	N.D.
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.05	N.D.	N.D.
19	Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.05	N.D.	N.D.
20	Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.05	N.D.	N.D.
21	Pitch, coal tar, high temp.	65996-93-2	266-028-2	0.05	N.D.	N.D.
22	Acrylamide	79-06-1	201-173-7	0.01	N.D.	N.D.
23	2,4-Dinitrotoluene	121-14-2	204-450-0	0.01	N.D.	N.D.
24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
25	Lead chromate**	7758-97-6	231-846-0	0.05	N.D.	N.D.
26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) **	12656-85-8	235-759-9	0.05	N.D.	N.D.
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34) **	1344-37-2	215-693-7	0.05	N.D.	N.D.
28	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.01	N.D.	N.D.

The third eight Substances of Very High Concern (Released in Jun, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
29	Trichloroethylene	79-01-6	201-167-4	0.005	N.D.	N.D.
30	Boric acid**	10043-35-3/ 11113-50-1	233-139-2/ 234-343-4	0.01	N.D.	N.D.
31	Disodium tetraborate, anhydrous**	1330-43-4/ 12179-04-3/ 1303-96-4	215-540-4	0.01	N.D.	N.D.
32	Tetraboron disodium heptaoxide, hydrate**	12267-73-1	235-541-3	0.01	N.D.	N.D.
33	Sodium chromate**	7775-11-3	231-889-5	0.01	N.D.	N.D.
34	Potassium chromate**	7789-00-6	232-140-5	0.01	N.D.	N.D.
35	Ammonium dichromate**	7789-09-5	232-143-1	0.01	N.D.	N.D.
36	Potassium dichromate**	7778-50-9	231-906-6	0.01	N.D.	N.D.

The fourth eight Substances of Very High Concern (Released in Dec, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
37	Cobalt(II) sulphate**	10124-43-3	233-334-2	0.01	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
38	Cobalt(II) dinitrate**	10141-05-6	233-402-1	0.01	N.D.	N.D.
39	Cobalt(II) carbonate**	513-79-1	208-169-4	0.01	N.D.	N.D.
40	Cobalt(II) diacetate**	71-48-7	200-755-8	0.01	N.D.	N.D.
41	2-Methoxyethanol	109-86-4	203-713-7	0.005	N.D.	N.D.
42	2-Ethoxyethanol	110-80-5	203-804-1	0.005	N.D.	N.D.
43	Chromium trioxide**	1333-82-0	215-607-8	0.01	N.D.	N.D.
44	Acids generated from chromium trioxide and their oligomers	Chromic acid**	7738-94-5	231-801-5	0.01	N.D.
		Dichromic acid**	13530-68-2	236-881-5	0.01	N.D.
		Oligomers of chromic acid and dichromic acid**	--	--	0.01	N.D.

The fifth seven Substances of Very High Concern (Released in Jun, 2011)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
45	2-Ethoxyethyl acetate	111-15-9	203-839-2	0.01	N.D.	N.D.
46	Strontium chromate**	7789-06-2	232-142-6	0.01	N.D.	N.D.
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)*	68515-42-4	271-084-6	0.01	N.D.	N.D.
48	Hydrazine	7803-57-8/ 302-01-2	206-114-9	0.01	N.D.	N.D.
49	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	0.01	N.D.	N.D.
50	1,2,3-Trichloropropane	96-18-4	202-486-1	0.01	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1	0.01	N.D.	N.D.

The sixth twenty Substances of Very High Concern (Released in Dec, 2011)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
52	Dichromium tris(chromate)**	24613-89-6	246-356-2	0.01	N.D.	N.D.
53	Potassium hydroxyoctaoxodizincatedichromate**	11103-86-9	234-329-8	0.01	N.D.	N.D.
54	Pentazinc chromate octahydroxide**	49663-84-5	256-418-0	0.01	N.D.	N.D.
55	Aluminosilicate Refractory Ceramic Fibres (RCF)**	--	--	0.05	N.D.	N.D.
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	--	--	0.05	N.D.	N.D.
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.01	N.D.	N.D.
58	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	204-212-6	0.005	N.D.	N.D.
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.005	N.D.	N.D.
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.005	N.D.	N.D.
61	1,2-Dichloroethane	107-06-2	203-458-1	0.005	N.D.	N.D.
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.005	N.D.	N.D.
63	Arsenic acid**	7778-39-4	231-901-9	0.01	N.D.	N.D.
64	Calcium arsenate**	7778-44-1	231-904-5	0.01	N.D.	N.D.
65	Trilead diarsenate**	3687-31-8	222-979-5	0.01	N.D.	N.D.
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.005	N.D.	N.D.
68	Phenolphthalein	77-09-8	201-004-7	0.005	N.D.	N.D.
69	Lead diazide Lead azide **	13424-46-9	236-542-1	0.01	N.D.	N.D.
70	Lead styphnate**	15245-44-0	239-290-0	0.01	N.D.	N.D.
71	Lead dipicrate**	6477-64-1	229-335-2	0.01	N.D.	N.D.

The seventh thirteen Substances of Very High Concern (Released in Jun, 2012)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
72	1,2-bis(2-methoxyethoxy)ethane(TEG DME; triglyme)	112-49-2	203-977-3	0.01	N.D.	N.D.
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01	N.D.	N.D.
74	Diboron trioxide**	1303-86-2	215-125-8	0.01	N.D.	N.D.
75	Formamide	75-12-7	200-842-0	0.01	N.D.	N.D.
76	Lead(II) bis(methanesulfonate) **	17570-76-2	401-750-5	0.01	N.D.	N.D.
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazin e- 2,4,6-(1H,3H,5H)-trione)	2451-62-9	219-514-3	0.01	N.D.	N.D.
78	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	423-400-0	0.01	N.D.	N.D.
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	0.01	N.D.	N.D.
80	N,N,N',N'-tetramethyl-4,4'-methylenedi aniline (Michler's base)	101-61-1	202-959-2	0.01	N.D.	N.D.



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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	0.01	N.D.	N.D.
82	[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	219-943-6	0.01	N.D.	N.D.
83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.01	N.D.	N.D.
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.01	N.D.	N.D.

The eighth fifty-four Substances of Very High Concern (Released in Dec, 2012)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.05	N.D.	N.D.
86	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.05	N.D.	N.D.
87	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.05	N.D.	N.D.
88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.05	N.D.	N.D.
89	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.05	N.D.	N.D.
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	--	--	0.05	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
91	4-Nonylphenol, branched and linear - substances 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	--	--	0.05	N.D.	N.D.
92	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.05	N.D.	N.D.
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7 13149-00-3 14166-21-3	201-604-9 236-086-3 238-009-9	0.05	N.D.	N.D.
94	Hexahydromethylphthalic anhy, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.05	N.D.	N.D.
95	Methoxy acetic acid	625-45-6	210-894-6	0.05	N.D.	N.D.
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.05	N.D.	N.D.
97	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	0.05	N.D.	N.D.
98	N-pentyl-isopentylphthalate	776297-69-9	--	0.05	N.D.	N.D.
99	1,2-Diethoxyethane	629-14-1	211-076-1	0.05	N.D.	N.D.
100	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	0.05	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
101	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	0.05	N.D.	N.D.
102	Acetic acid, lead salt, basic**	51404-69-4	257-175-3	0.01	N.D.	N.D.
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide) **	1319-46-6	215-290-6	0.01	N.D.	N.D.
104	Lead oxide sulfate (basic lead sulfate) **	12036-76-9	234-853-7	0.01	N.D.	N.D.
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate) **	69011-06-9	273-688-5	0.01	N.D.	N.D.
106	Dioxobis(stearato)trilead**	12578-12-0	235-702-8	0.01	N.D.	N.D.
107	Fatty acids, C16-18, lead salts**	91031-62-8	292-966-7	0.01	N.D.	N.D.
108	Lead bis(tetrafluoroborate) **	13814-96-5	237-486-0	0.01	N.D.	N.D.
109	Lead cyanamate**	20837-86-9	244-073-9	0.01	N.D.	N.D.
110	Lead dinitrate**	10099-74-8	233-245-9	0.01	N.D.	N.D.
111	Lead oxide (lead monoxide) **	1317-36-8	215-267-0	0.01	N.D.	N.D.
112	Lead tetroxide (orange lead) **	1314-41-6	215-235-6	0.01	N.D.	N.D.
113	Lead titanium trioxide**	12060-00-3	235-038-9	0.01	N.D.	N.D.
114	Lead Titanium Zirconium Oxide**	12626-81-2	235-727-4	0.01	N.D.	N.D.
115	Pentalead tetraoxide sulphate**	12065-90-6	235-067-7	0.01	N.D.	N.D.
116	Pyrochlore, antimony lead yellow**	8012 -00-8	232-382-1	0.01	N.D.	N.D.
117	Silicic acid, barium salt, lead-doped**	68784-75-8	272-271-5	0.01	N.D.	N.D.
118	Silicic acid, lead salt**	11120-22-2	234-363-3	0.01	N.D.	N.D.
119	Sulfurous acid, lead salt, dibasic**	62229-08-7	263-467-1	0.01	N.D.	N.D.
120	Tetraethyllead**	78-00-2	201-075-4	0.01	N.D.	N.D.
121	Tetralead trioxide sulphate**	12202-17-4	235-380-9	0.01	N.D.	N.D.
122	Trilead dioxide phosphonate**	12141-20-7	235-252-2	0.01	N.D.	N.D.
123	Furan	110-00-9	203-727-3	0.05	N.D.	N.D.
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.05	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
125	Diethyl sulphate	64-67-5	200-589-6	0.05	N.D.	N.D.
126	Dimethyl sulphate	77-78-1	201-058-1	0.05	N.D.	N.D.
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.05	N.D.	N.D.
128	Dinoseb	88-85-7	201-861-7	0.05	N.D.	N.D.
129	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.05	N.D.	N.D.
130	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.05	N.D.	N.D.
131	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	0.05	N.D.	N.D.
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	0.05	N.D.	N.D.
133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.05	N.D.	N.D.
134	Biphenyl-4-ylamine	92-67-1	202-177-1	0.05	N.D.	N.D.
135	o-aminoazotoluene	97-56-3	202-591-2	0.05	N.D.	N.D.
136	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	0.05	N.D.	N.D.
137	N-methylacetamide	79-16-3	201-182-6	0.05	N.D.	N.D.
138	1-bromopropane; n-propyl bromide	106-94-5	203-445-0	0.05	N.D.	N.D.

The ninth six Substances of Very High Concern (Released in Jun, 2013)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
139	Cadmium **	7440-43-9	231-152-8	0.01	N.D.	N.D.
140	Cadmium oxide **	1306-19-0	215-146-2	0.01	N.D.	N.D.
141	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.01	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues]	/	/	0.05	N.D.	N.D.
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.01	N.D.	N.D.
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.01	N.D.	N.D.

The tenth seven Substances of Very High Concern (Released in Dec, 2013)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
145	Cadmium sulphide**	1306-23-6	215-147-8	0.01	N.D.	N.D.
146	Dihexyl phthalate	84-75-3	201-559-5	0.01	N.D.	N.D.
147	C.I. Direct Red 28	573-58-0	209-358-4	0.01	N.D.	N.D.
148	C.I. Direct Black 38	1937-37-7	217-710-3	0.01	N.D.	N.D.
149	2-imidazoline-2-thiol	96-45-7	202-506-9	0.01	N.D.	N.D.
150	Lead di(acetate)**	301-04-2	206-104-4	0.01	N.D.	N.D.
151	Trixylyl phosphate	25155-23-1	246-677-8	0.01	N.D.	N.D.

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The eleventh four Substances of Very High Concern (Released in Jun, 2014)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.01	N.D.	N.D.
153	Cadmium chloride**	10108-64-2	233-296-7	0.01	N.D.	N.D.
154	Sodium perborate; perboric acid, sodium salt**	-	239-172-9; 234-390-0	0.01	N.D.	N.D.
155	Sodium peroxometaborate**	7632-04-4	231-556-4	0.01	N.D.	N.D.

The Twelfth six Substances of Very High Concern (Released in Dec, 2014)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
156	Cadmium fluoride**	7790-79-6	232-222-0	0.01	N.D.	N.D.
157	Cadmium sulphate**	10124-36-4, 31119-53-6	233-331-6	0.01	N.D.	N.D.
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.05	N.D.	N.D.
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-284-8	0.05	N.D.	N.D.
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	0.01	N.D.	N.D.



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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
161	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)	--	--	0.05	N.D.	N.D.

The Thirteenth two Substances of Very High Concern (Released in Jun, 2015)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5, 68648-93-1	271-094-0 272-013-1	0.05	N.D.	N.D.
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]	--	--	0.05	N.D.	N.D.

The Fourteen five Substances of Very High Concern (Released in Dec, 2015)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
164	Nitrobenzene	98-95-3	202-716-0	0.05	N.D.	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-1-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.05	N.D.	N.D.
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.05	N.D.	N.D.
167	1,3-propanesultone	1120-71-4	214-317-9	0.05	N.D.	N.D.
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	0.05	N.D.	N.D.

The Fifteen one Substance of Very High Concern (Released in Jun, 2016)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.005	N.D.	N.D.

The Sixteen four Substance of Very High Concern (Released in Jan, 2017)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	201-245-8	0.005	N.D.	N.D.
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	206-400-3 - 221-470-5	0.005	N.D.	N.D.
172	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.005	N.D.	N.D.
173	4-heptylphenol, branched and linear (4-HPbl)	-	-	0.005	N.D.	N.D.

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The Seventeen one Substance of Very High Concern (Released in Jul, 2017)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	B#
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	0.005	N.D.	N.D.

## Note:

1.  $\text{mg/kg} = \text{ppm} = 10^{-6}$
2.  $\% = \text{w/w}$
3. N.D. : < Report Limit
4. \*The detected DHNUP are consisted of six phthalates which CAS number are 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.
5. \*\* According to the 5.2.1 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011, the selected test methods only show the existence of certain elements rather than the existence of substances, using additional measurements to screen for the existence and identification of substances in a sample when necessary.
6. Report Results: based on measurements in most cases will identify the chemical constituents in the sample but not necessarily "the substance" which were originally used to produce the article, professional consults, products information, testing processes, features of materials, characteristics of the SVHC and chemical analysis etc to obtain the assessments results according to the 5.2 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011.
7. Report Limit: Be obtained from the uncertainty, the 0.1 % threshold and the ECHA "Guidance on requirements for substances in articles".
8. A#/B#: According to the applicant's request, the admixture of specimen A/B is tested as a whole. The testing results of specimen A/B may be different from that of any sole material in specimen A/B.

## Appendix:

1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
  - 1) Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.



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2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.

2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.

3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.

1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.

2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of  $\geq 0.1\%$  by weight for non-gaseous mixtures or  $\geq 0.2\%$  by volume for gaseous mixtures.

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## Photograph of Sample



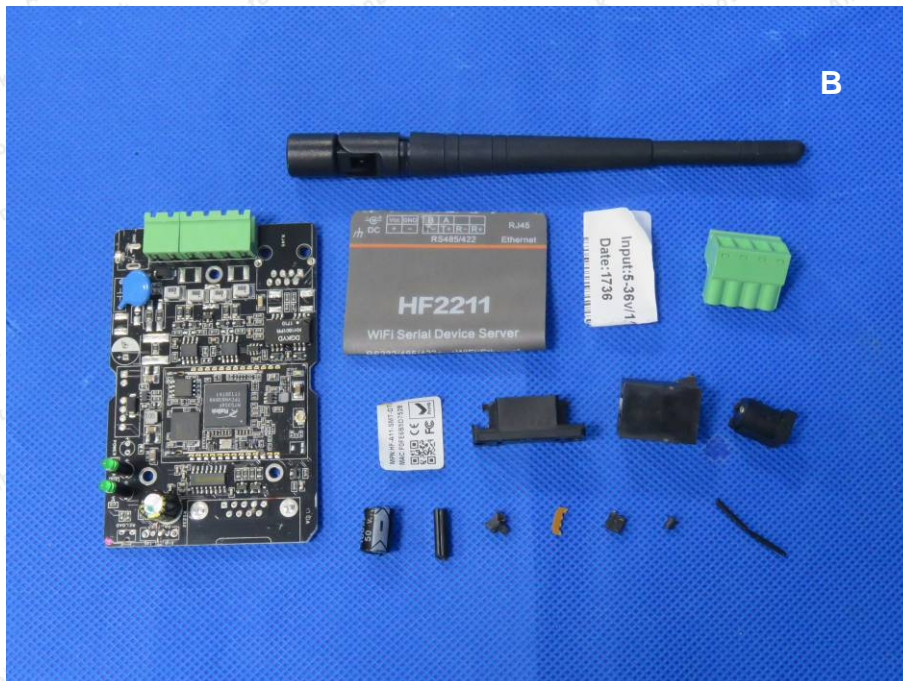


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\*\*\*\*\* End of Report \*\*\*\*\*

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