

No.: EM180314015C	E00	2 Date: Mar. 20, 2018	Page 1 of 19
Applicant			
Address			
Sample Name		Wireless charger	
Model		P308.821	
Received Date		Mar. 14, 2018	
Test Period		Mar. 14, 2018 ~ Mar. 20, 2018	
Test Requested		As specified by client, according to EU REACH Regulation (EC) No determine the content of one hundred and eighty-one (181) substa List of Substances of Very High Concern (SVHC) in the submitted	nces in the Candidate
Test Results		Please refer to next page(s).	sample.

#### Summary:

ACTED WITH THE PRODUCTIP REPACTION TOOL ON 2018-06-14, AT THE TIME OF GENERATING THE DOCUMENT THE ORIGINAL DOCUMENT WAS AVAILABLE ALSO. THE ORIGINAL CAN ONLY BE MADE AVAILABLE BY THE DOCUMENT OWNER

	According to the specified scope and analytical techniques, the test results of SVHC are	PASS
10 - 1 O	less than 0.1%(w/w) in the submitted sample.	FA00

Signed for and on behalf of EMTEK (Shenzhen) Co., Ltd Tested by: Reviewed by: Approved by: Ethan Jerry Pascal Shi Test engineer Technical supervisor Authorized signatory Mar. 20, 2018

C Hotline 4008 838 258



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#### **Test item list:**

No.	Sample description
1(MIX)	Metal
2(MIX)	Non-metal

Remark: The samples of No.1, 2 were analyzed on behalf of the applicant as mixing sample in one testing. The above results were only given as the informality value.



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#### **Test Results:**

REDACTED WITH THE PRODUCTIP REDACTION TOOL ON 2019-06-14. AT THE TIME OF GENERATING THE DOCUMENT THE ORIGINAL DOCUMENT WAS AVAILABLE ALSO. THE ORIGINAL CAN ONLY BE MADE AVAILABLE BY THE DOCUMENT OWNER.

			Test Re	sult (%)	RL (%)
No.	Substance Name	CAS No.	1(MIX)	2(MIX)	
001	4,4'- Diaminodiphenylmethane	101-77-9	ND	ND	0.005
002	Benzyl butyl phthalate	85-68-7	ND	ND	0.005
003	Bis (2-ethylhexyl)phthalate	117-81-7	ND	ND	0.005
004	Dibutyl phthalate	84-74-2	ND	ND	0.005
005	Anthracene	120-12-7	ND	ND	0.005
006	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	ND	ND	0.005
007	Short Chain Chlorinated Paraffins <sup>#</sup>	85535-84-8	ND	ND	0.01
800	Cobalt dichloride*	7646-79-9	ND	ND	0.01
009	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified α- HBCDD β- HBCDD γ- HBCDD	3194-55-6 <sup>(3)</sup> 25637-99-4 <sup>(4)</sup> (134237-50- 6) (134237-51- 7) (134237-52- 8)	ND	ND	0.00
010	Sodium dichromate*	7789-12-0 <sup>(1),</sup> 10588-01-9 <sup>(2)</sup>	ND	ND	0.01
011	Bis(tributyltin)oxide*	56-35-9	ND	ND	0.00
012	Diarsenic pentaoxide*	1303-28-2	ND	ND	0.01
013	Diarsenic trioxide*	1327-53-3	ND	ND	0.01
014	Triethyl arsenate*	15606-95-8	ND	ND	0.01
015	Lead hydrogen arsenate*	7784-40-9	ND	ND	0.01
016	2,4-Dinitrotoluene	121-14-2	ND	ND	0.01
017	Anthracene oil#	90640-80-5	ND	ND	0.05
018	Anthracene oil, anthracene paste, distn. lights#	91995-17-4	ND	ND	0.05
019	Anthracene oil, anthracene paste, anthracene fraction#	91995-15-2	ND	ND	0.05



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		CAS No.	Test Result (%)		RL
No.	Substance Name		1(MIX)	2(MIX)	(%)
020	Anthracene oil, anthracene-low#	90640-82-7	ND	ND	0.05
021	Anthracene oil, anthracene paste#	90640-81-6	ND	ND	0.05
022	Diisobutyl phthalate(DIBP)	84-69-5	ND	ND	0.00
023	Lead chromate*	7758-97-6	ND	ND	0.05
024	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	ND	ND	0.05
025	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	ND	ND	0.05
026	Tris(2-chloroethyl)phosphate	115-96-8	ND	ND	0.01
027	Pitch, coal tar, high temp. #	65996-93-2	ND	ND	0.05
028	Acrylamide	79-06-1	ND	ND	0.01
029	Trichloroethylene	79-01-6	ND	ND	0.00
030	Boric acid*	10043-35-3 11113-50-1	ND	ND	0.01
031	Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3	ND	ND	0.01
032	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	ND	ND	0.01
033	Sodium chromate*	7775-11-3	ND	ND	0.01
034	Potassium chromate*	7789-00-6	ND	ND	0.01
035	Ammonium dichromate*	7789-09-5	ND	ND	0.01
036	Potassium dichromate*	7778-50-9	ND	ND	0.01
037	Cobalt(II) sulphate*	10124-43-3	ND	ND	0.01
038	Cobalt(II) dinitrate*	10141-05-6	ND	ND	0.01
039	Cobalt(II) carbonate*	513-79-1	ND	ND	0.01
040	Cobalt(II) diacetate*	71-48-7	ND	ND	0.01
041	2-Methoxyethanol	109-86-4	ND	ND	0.00
042	2-Ethoxyethanol	110-80-5	ND	ND	0.00

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		CAS No.         Test Result (%)           1(MIX)         2(MIX)	SEESE SE			sult (%)	RL
No.	Substance Name		1(MIX)	2(MIX)	(%)		
043	Chromium trioxide*	1333-82-0	ND	ND	0.01		
044	Acids generated from chromium trioxide and their oligomers. Group containing: Chromic acid, Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	ND	ND	0.01		
045	2-Ethoxyethyl acetate	111-15-9	ND	ND	0.01		
046	Strontium chromate*	7789-06-2	ND	ND	0.01		
047	1,2-Benzenedicarboxylic acid, di-C7- 11-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	0.01		
048	Hydrazine	302-01-2, 7803-57-8	ND	ND	0.01		
049	1-Methyl-2-pyrrolidone	872-50-4	ND	ND	0.01		
050	1,2,3-Trichloropropane	96-18-4	ND	ND	0.01		
051	1,2-Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich(DIHP)	71888-89-6	ND	ND	0.01		
052	Dichromium tris(chromate)*	24613-89-6	ND	ND	0.01		
053	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	ND	ND	0.01		
054	Pentazinc chromate octahydroxide*	49663-84-5	ND	ND	0.01		
055	Zirconia Aluminosilicate Refractory Ceramic Fibres*#		ND	ND	0.05		
056	Aluminosilicate Refractory Ceramic Fibres (RCF) *#		ND	ND	0.05		
057	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	ND	ND	0.01		
058	Bis(2-methoxyethyl) phthalate	117-82-8	ND	ND	0.005		
059	2-Methoxyaniline; o-Anisidine	90-04-0	ND	ND	0.005		
060	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	ND	ND	0.005		
061	1,2-dichloroethane	107-06-2	ND	ND	0.005		
062	Bis(2-methoxyethyl) ether	111-96-6	ND	ND	0.005		
063	Arsenic acid*	7778-39-4	ND	ND	0.01		
064	Calcium arsenate*	7778-44-1	ND	ND	0.01		

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		CAS No.	Test Result (%)		RL
No.	Substance Name		1(MIX)	2(MIX)	(%)
065	Trilead diarsenate*	3687-31-8	ND	ND	0.01
066	N,N-dimethylacetamide	127-19-5	ND	ND	0.005
067	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	ND	ND	0.005
068	Phenolphthalein	77-09-8	ND	ND	0.005
069	Lead diazide, Lead azide*	13424-46-9	ND	ND	0.01
070	Lead styphnate*	15245-44-0	ND	ND	0.01
071	Lead dipicrate*	6477-64-1	ND	ND	0.01
072	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	112-49-2	ND	ND	0.01
073	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	110-71-4	ND	ND	0.01
074	Diboron trioxide*	1303-86-2	ND	ND	0.01
075	Formamide	75-12-7	ND	ND	0.01
076	Lead(II) bis(methanesulfonate)*	17570-76-2	ND	ND	0.01
077	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5- triazinane-2,4,6-trione (TGIC)	2451-62-9	ND	ND	0.01
078	1,3,5-tris[(2S and 2R)-2, 3-epoxypropyl]-1,3,5-triazine-2,4,6- (1H,3H,5H)-trione (β-TGIC)	59653-74-6	ND	ND	0.01
079	4,4'-bis (dimethylamino) benzophenone (Michler's ketone)	90-94-8	ND	ND	0.01
080	N,N,N',N'-tetramethyl-4,4'- methylenedianiline(Michler's base)	101-61-1	ND	ND	0.01
081	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	ND	ND	0.01
082	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cycl ohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	ND	ND	0.01

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			Test Re	esult (%)	RL
No.	Substance Name	CAS No.	1(MIX)	2(MIX)	(%)
083	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	ND	ND	0.01
084	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	ND	ND	0.01
085	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	ND	ND	0.05
086	Pentacosafluorotridecanoic acid	72629-94-8	ND	ND	0.05
087	Tricosafluorododecanoic acid	307-55-1	ND	ND	0.05
088	Henicosafluoroundecanoic acid	2058-94-8	ND	ND	0.05
089	Heptacosafluorotetradecanoic acid	376-06-7	ND	ND	0.05
090	Diazene-1,2-dicarboxamide (C,C'- azodi(formamide))	123-77-3	ND	ND	0.05
091	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2- dicarboxylic anhydride [2], trans- cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	85-42-7, 13149-00-3, 14166-21-3	ND	ND	0.05
092	Hexahydromethylphthalic anhydride [1],Hexahydro-4-methylphthalic anhydride [2],Hexahydro-1- methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	ND	ND	0.05
093	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] #		ND	ND	0.05

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		SS ESSEL S	Test Result (%)		RL
No.	Substance Name	CAS No.	1(MIX)	2(MIX)	(%)
094	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] #		ND	ND	0.05
095	Methoxyacetic acid	625-45-6	ND	ND	0.05
096	N,N-dimethylformamide	68-12-2	ND	ND	0.05
097	Dibutyltin dichloride (DBTC)	683-18-1	ND	ND	0.05
098	Lead monoxide (lead oxide)*	1317-36-8	ND	ND	0.01
099	Orange lead (lead tetroxide)*	1314-41-6	ND	ND	0.01
100	Lead bis(tetrafluoroborate) *	13814-96-5	ND	ND	0.01
101	Trilead bis(carbonate) dihydroxide*	1319-46-6	ND	ND	0.01
102	Lead titanium trioxide*	12060-00-3	ND	ND	0.01
103	Lead titanium zirconium oxide*	12626-81-2	ND	ND	0.01
104	Silicic acid, lead salt*	11120-22-2	ND	ND	0.01
105	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1)*, lead-doped [with lead(Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082- 001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	ND	ND	0.01
106	1-bromopropane (n-propyl bromide)	106-94-5	ND	ND	0.05
107	Methyloxirane (Propylene oxide)	75-56-9	ND	ND	0.05
108	1,2-Benzenedicarboxylic acid , dipentylester, branched and linear	84777-06-0	ND	ND	0.05
109	Diisopentylphthalate	605-50-5	ND	ND	0.05

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			Test Result (%)		RL
No.	Substance Name	CAS No.	1(MIX)	2(MIX)	(%)
110	N-pentyl-isopentylphthalate	776297-69-9	ND	ND	0.05
111	1,2-Diethoxyethane	629-14-1	ND	ND	0.05
112	Acetic acid, lead salt, basic*	51404-69-4	ND	ND	0.01
113	Lead oxide sulfate*	12036-76-9	ND	ND	0.01
114	[Phthalato(2-)]dioxotrilead*	69011-06-9	ND	ND	0.01
115	Dioxobis(stearato)trilead*	12578-12-0	ND	ND	0.01
116	Fatty acids, C16-18, lead salts* C16	91031-62-8	ND	ND	0.01
117	Lead cyanamidate*	20837-86-9	ND	ND	0.01
118	Lead dinitrate*	10099-74-8	ND	ND	0.01
119	Pentalead tetraoxide sulphate*	12065-90-6	ND	ND	0.01
120	Pyrochlore, antimony lead yellow	8012-00-8	ND	ND	0.01
121	Sulfurous acid, lead salt, dibasic*	62229-08-7	ND	ND	0.01
122	Tetraethyllead*	78-00-2	ND	ND	0.01
123	Tetralead trioxide sulphate*	12202-17-4	ND	ND	0.01
124	Trilead dioxide phosphonate*	12141-20-7	ND	ND	0.01
125	Furan	110-00-9	ND	ND	0.05
126	Diethyl sulphate	64-67-5	ND	ND	0.05
127	Dimethyl sulphate	77-78-1	ND	ND	0.05
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3- oxazolidine	143860-04-2	ND	ND	0.05

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			Test Re	RL	
No.	Substance Name	CAS No.	1(MIX)	2(MIX)	(%)
129	Dinoseb (6-sec-butyl-2, 4-dinitrophenol)	88-85-7	ND	ND	0.05
130	4,4'-methylenedi-o-toluidine	838-88-0	ND	ND	0.05
131	4,4'-oxydianiline and its salts	101-80-4	ND	ND	0.05
132	4-Aminoazobenzene	60-09-3	ND	ND	0.05
133	4-methyl-m-phenylenediamine (toluene- 2,4-diamine)	95-80-7	ND	ND	0.05
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	ND	ND	0.05
135	Biphenyl-4-ylamine	92-67-1	ND	ND	0.05
136	o-aminoazotoluene	97-56-3	ND	ND	0.05
137	o-Toluidine	95-53-4	ND	ND	0.05
138	N-methylacetamide	79-16-3	ND	ND	0.05
139	Cadmium	7440-43-9	ND	ND	0.01
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	ND	ND	0.01
141	Pentadecafluorooctanoic Acid (PFOA)	335-67-1	ND	ND	0.01
142	Dipentyl phthalate (DPP)	131-18-0	ND	ND	0.01
143	4-Nonylphenol, branched and linear, ethoxylated		ND	ND	0.05
144	Cadmium oxide*	1306-19-0	ND	ND	0.01
145	Cadmium sulphide*	1306-23-6	ND	ND	0.01
146	Dihexyl phthalate	84-75-3	ND	ND	0.01
147	C.I. Direct Red 28	573-58-0	ND	ND	0.01

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			Test Result (%)		RL
No.	Substance Name	CAS No.	1(MIX)	2(MIX)	(%)
148	C.I. Direct Black 38	1937-37-7	ND	ND	0.01
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	ND	ND	0.01
150	Lead di(acetate) *	301-04-2	ND	ND	0.01
151	Trixylyl phosphate	25155-23-1	ND	ND	0.01
152	Cadmium chloride*	10108-64-2	ND	ND	0.01
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	0.01
154	Sodium perborate; perboric acid, sodium salt*		ND	ND	0.01
155	Sodium peroxometaborate*	7632-04-4	ND	ND	0.01
156	Cadmium fluoride*	7790-79-6	ND	ND	0.01
157	Cadmium sulphate*	10124-36-4; 31119-53-6	ND	ND	0.01
158	2-(2'-Hydroxy-3',5'-di-tert- butylphenyl)benzotriazole (UV-320)	3846-71-7	ND	ND	0.05
159	2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1	ND	ND	0.05
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo- 8-oxa-3,5-dithia-4-tannatetradecanoate; DOTE	15571-58-1	ND	ND	0.01
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)		ND	ND	0.05
162	1,2-benzenedicarboxylic acid, di-C6-10- alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	0.05

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	Substance Name	CAS No.	Test Result (%)		RL
No.			1(MIX)	2(MIX)	(%)
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]		ND	ND	0.05
164	1,3-propanesultone	1120-71-4	ND	ND	0.05
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol- 2-yl)phenol (UV-327)	3864-99-1	ND	ND	0.05
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl)phenol (UV-350)	36437-37-3	ND	ND	0.05
167	Nitrobenzene	98-95-3	ND	ND	0.05
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts		ND	ND	0.05
169	Benzo[def]chrysene/ Benzo[a]pyrene(BaP)	50-32-8	ND	ND	0.05
170	4,4'-isopropylidenediphenol (Bisphenol A)	80-05-7	ND	ND	0.05
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	ND	ND	0.05
172	4-heptylphenol, branched and linear (4-HPbl)		ND	ND	0.05
173	p-(1,1-dimethylpropyl) phenol(PTAP)	80-46-6	ND	ND	0.05
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)		ND	ND	0.05
175	Chrysene	218-01-9	ND	ND	0.05
176	Benz[a]anthracene	56-55-3	ND	ND	0.05
177	Cadmium nitrate #	10325-94-7	ND	ND	0.05
178	Cadmium hydroxide #	21041-95-2	ND	ND	0.05
179	Cadmium carbonate #	513-78-0	ND	ND	0.05

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No.	Substance Name	CAS No.	Test Result (%)		RL
			1(MIX)	2(MIX)	(%)
180	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	13560-89-9 135821-74-8 135821-03-3	ND	ND	0.05
181	Reaction products of 1,3,4- thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]		ND	ND	0.05

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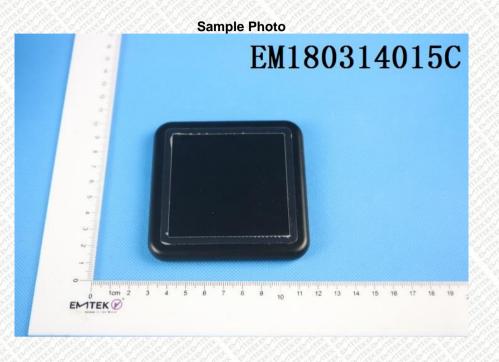
- 1. ND = Not Detected (less than RL) RL = Report Limit
- 2. PBT = Persistent, Bio accumulative and Toxic as defined in Regulation (EC) No 1907/2006
- 3. vPvB = Very persistent and very bio accumulative as defined in Regulation (EC) No 1907/2006
- 4. (1) CAS No. 7789-12-0 refers to Sodium dichromate dihydrate
- <sup>(2)</sup> CAS No. 10588-01-9 refers to anhydrous Sodium dichromate
   <sup>(3)</sup> CAS No. 3194-55-6 refers to 1,2,5,6,9,10- hexabromocyclododecane
   <sup>(4)</sup> CAS No. 25637-99-4 refers to hexabromocyclododecane (without specifying bromine positions)
- 5. If the article contains a material type whose weight is less than 0.1% of the total article weight, this material type is ignored for testing.
- 6. \* = Result is based on the representative heavy metal concentration. Due to the limit of the analytical technology available, when the calculated result of target substance by chemometrics is higher than the request limit, the client is strongly advised to review the chemical formulation to ascertain.
- 7. # = The SVHC which is defined as UVCB substance (substances of Unknown or Variable composition, Complex reaction products or Biological materials) under REACH regulation cannot be sufficiently identified by its chemical composition as the number of constituents is relatively large and/or the composition is, to a significant part, unknown and/or the variability of composition is relatively large or poorly predictable. So the test result is calculated as per the selected identifiers of the SVHC basing on the worst-case scenario.
- 8. According to the REACH regulation (EC) No. 1907/2006, the request limit is 0.1% for SVHC in the article.
- 9. If a SVHC is found over the request limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by further request of quantitative analysis.
- Test Method : By using microwave digestion or solvent extraction methods, and the analysis was performed by ICP-OES, GC-MS, IC, LC-MS, HPLC and UV.



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#### Note :

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- The limit of 0.1% (w/w) applies to an article. The results were calculated assuming as the submitted sample was an article. However, the results may not be applicable if the intended use of the sample is a substance or mixture. According to REACH, definition of an article, substance and mixture are:
  - i. Article An object during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition
  - ii. Substance A chemical element and its compound in the natural state or obtained by any manufacturing process.
  - iii. Mixture (Previously known as "Preparation") A mixture or solution composed of two or more substances
- 2. In accordance of Article 7 of Regulation (EC) No. 1907/2006 (REACH regulation) Registration and notification of substances in articles, any producer or importer of articles shall notify ECHA, if a substance meets in criteria in Article 57 and is identified in accordance with Article 59(1), if both (1) the substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year & (2) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w) are met. The information to be notified shall include (a) identity and contact details of the producer or importer, (b) the registration numbers, (c) the identity of the substance and (d) the classification of the substance, (e) a brief description of the use of the substance and (f) the tonnage range of the substance.
- 3. In accordance of Article 33 of Regulation (EC) No. 1907/2006 (REACH regulation) Duty to communicate information on substances in articles, any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance. On request by a consumer the relevant information shall be provided by any supplier of an article free of charge, within 45 days of receipt of the request.

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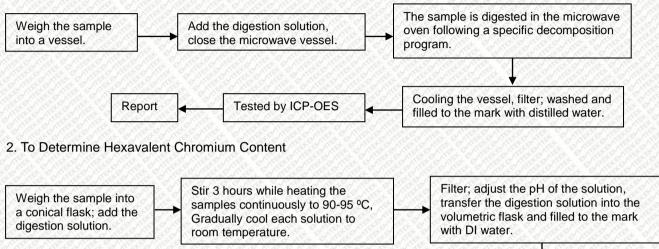
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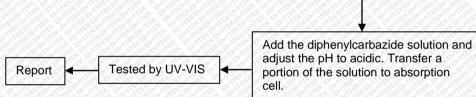
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#### **Test Flow:**

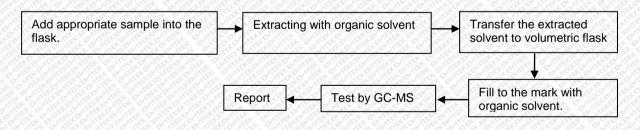
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1. To Determine Lead, Arsenic, Cobalt, Silicon, Aluminum, Zirconium, Molybdenum, Boron, Strontium, Cadmium Content:





3. To Determine Anthracene; Anthracene oil; Anthracene oil, anthracene paste, distn. Lights; Anthracene oil, anthracene paste, anthracene fraction; Anthracene oil, anthracene-low; Anthracene oil, anthracene paste, Benzo[a]pyrene, Chrysene, Benz[a]anthracene Content





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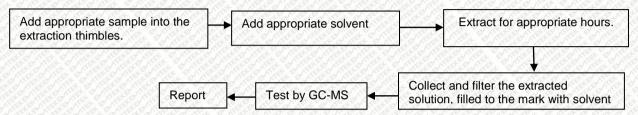
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4. To Determine DEHP, DBP, BBP, DIBP, DHNUP, DIHP, DMEP, DIPP, DNHP, N-pentyl-isopentylphtalate,

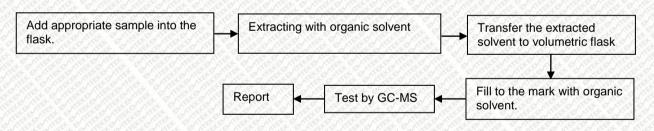
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear, Dipentyl phthalate (DPP),

1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear,1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with  $\geq$  0.3% of dihexyl phthalate, Dicyclohexyl phthalate (DCHP) Content

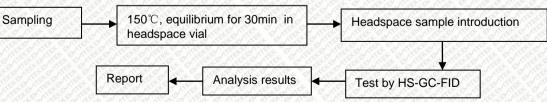


5. To Determine4,4'-Diaminodiphenylmethane (MDA), 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene), Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified, Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins), 2,4-Dinitrotoluene, Tris(2-chloroethyl)phosphate, 2-Methoxyaniline; o-Anisidine, 2,2'-dichloro-4,4'-methylenedianiline (MOCA), Bis(pentabromophenyl) ether (DecaBDE),

anhydride(Hexahydrophthalic anhydride - HHPA), Hexahydromethylphathalic anhy, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride, 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxaz olidine, 4,4'-methylenedi-o-toluidine, 4,4'-oxydianiline and its salts, 4-Aminoazobenzene; 4-Phenylazoaniline, 4-methyl-m-phenylenediamine (2,4-toluene-diamine), 6-methoxy-m-toluidine (p-cresidine), Biphenyl-4-ylamine, o-aminoazotoluene, o-Toluidine; 2-Aminotoluene, Trixylyl phosphate, DOTE, reaction mass of DOTE and MOTE, hexamethylene diacrylate (hexane-1,6-diol diacrylate), (3e)-1,7,7-trimethyl-3-[(4-methylphenyl)methylidene]bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-3-(phenylmethylene)-bicyclo[2.2.1]heptan-2-on, Nitrobenzene Content



6. To Determine 2-Methoxyethanol, 2-Ethoxyethanol, 2-Ethoxyethyl acetate, Hydrazine, Bis(2-methoxyethyl) ether, 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme), 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME), 1,2-Diethoxyethane, 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] and Dechlorane plus Content:





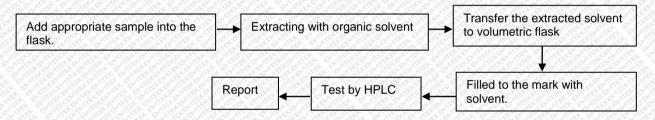
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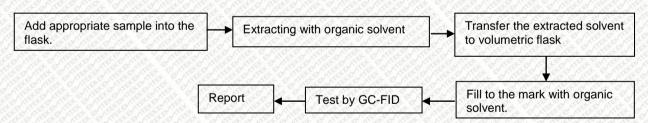
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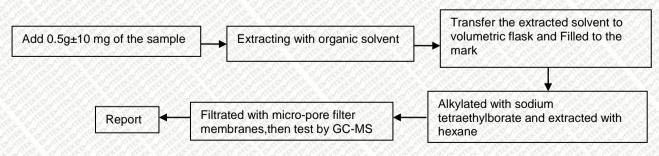
7. To Determine Acrylamide, Formaldehyde, oligomeric reaction products with aniline (technical MDA), 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol), N,N-dimethylacetamide (DMAC), Phenolphthalein, Formamide, TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione), β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione), 4,4'-bis(dimethylamino) benzophenone (Michler's ketone), N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base), Basic Violet 3, Basic Blue 26, Solvent Blue 4, 4.4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol, 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering welldefined substances and UVCB substances, polymers and homologues, 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. Diazene-1.2-dicarboxamide (C.C'-azodi(formamide)), N.N-dimethylformamide: dimethyl formamide, Dinoseb, N-methylacetamide, 4-Nonviphenol, 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 coveringUVCB- and well-defined substances, polymers and homologues], UV-320, UV-328, 1,3-propanesultone, 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327), 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(secbutyl)phenol (UV-350), BPA, PFDA, 4-HPbI, PTAP, Perfluorononan-1-oic-acid and its sodium and ammonium salts , PFHxS and RP-HP Content



8. To Determine Trichloroethylene, 1-Methyl-2-pyrrolidone, 1,2,3-Trichloropropane, 1,2-Dichloroethane, Furan, Propylene oxide,1,2-epoxypropane, methyloxirane, Diethyl sulphate, Dimethyl sulphate, 1-bromopropane, n-propyl bromide Content



9. To Determine Bis(tributyltin)oxide (TBTO), Dibutyltin dichloride (DBTC) Content





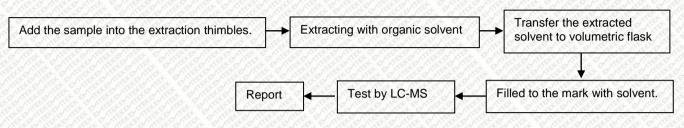
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10. To Determine Pentacosafluorotridecanoic acid, Tricosafluorododecanoic acid, Henicosafluoroundecanoic acid, Heptacosafluorotetradecanoic acid, Methoxy acetic acid, Ammonium pentadecafluorooctanoate (APFO), Pentadecafluorooctanoic acid (PFOA), Direct Red 28, Direct Black 38, 2-imidazoline-2-thiol Content



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

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- 4. 除非本公司进行抽样,并已在报告中说明,否则报告中适用于送测的样品(样品信息为客户提供),不适用于批量。 The Report refers only to the tested sample (Sample information is provided by customer) and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
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   The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 8. 若需要在法院审理程序或者仲裁过程中使用测试报告,客户必须在提交测试样品前将该意图告知本公司。 Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 9. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。
  Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period.

Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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