

申请公司(APPLICANT) : SAMSUNG ELECTRO-MECHANICS 公司住所(ADDRESS) : 150, Maeyeong-ro, Yeongtong-gu,

日期(DATE): 2020年07月22日

样品描述(SAMPLE DESCRIPTION):

样品名称 : CHIP INDUCTOR

(NAME/TYPE OF PRODUCT)

生产商/贸易商 : SAMSUNG ELECTRO-MECHANICS

(MANUFACTURER/VENDOR)

:参考续页. 测试方法

: Please see the following page(s). (TEST METHOD(S))

测试结果 :参考续页.

(TEST RESULT(S)) : Please see the following page(s).

注1:检测结果只是针对来样所做的测试.

(Note 1: The test results presented in this report relate only to the object tested.)

Suwon-si, Gyeonggi-do, Korea

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Authorized by,

Bo Park / Lab. General Manager

Intertek Testing Services Korea Ltd.

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日期(DATE): 2020年07月22日

數字 (No.)	样品名称 (NAME/TYPE OF PRODUCT)	报告号(REPORT NO.)
1	CHIP INDUCTOR	RT19R-S2551-002-C2-RA2
2	CHIP INDUCTOR	RT20R-S4153-002-C

#### \* 样品相片; -

(View of sample as received;-)



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#### Intertek Testing Services Korea Ltd.





申请公司(APPLICANT) : SAMSUNG ELECTRO-MECHANICS

公司住所(ADDRESS) : 150, Maeyeong-ro, Yeongtong-gu,

Suwon-si, Gyeonggi-do, Korea

: RT19R-S2551-002

: 2019年 06月03日

报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020年02月14日

样品描述(SAMPLE DESCRIPTION):

样品名称 : CHIP INDUCTOR

(NAME/TYPE OF PRODUCT)

样品编号

(SAMPLE ID NO.)

生产商/贸易商

(MANUFACTURER/VENDOR)

样品收到日期 (SAMPLE RECEIVED)

测试进行日期

(TESTING DATE) **TEST TYPE** 

: 2019年 06月03日至 2020年 02月14日

: Chemical Testing - Two hundred five (205) substances of very high concern (SVHC) based on the SVHC Candidate List announced by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning REACH

: SAMSUNG ELECTRO-MECHANICS

SUMMARY OF TEST RESULT(S) : According to specified test processes in this report, contents of all substances of very high concern (SVHC) in Candidate List published by ECHA are less than 0.1 % (w/w) in submitted

sample(s). For more details, please see the following page(s).

注1:检测结果只是针对来样所做的测试.

(Note 1: The test results presented in this report relate only to the object tested.)

注2:未经测试实验室书面允许,报告不能被部分复制.

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测试 (Approved by):

Jade Jang / 测试负责人

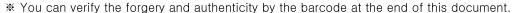
批准 (Authorized by):

Bo Park / 实验室经理

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报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020 年 02 月 14 日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

數字 (No.)	测试项目 (TEST ITEM)	EC No.	CAS No.	报告限界 (RL)(% (w/w))	结果 (RESULT)
1	Anthracene	204-371-1	120-12-7	0.02	N.D.
2	4,4'-diaminodiphenylmethane	202-974-4	101-77-9	0.02	N.D.
3	Dibutyl phthalate(DBP)	201-557-4	84-74-2	0.02	N.D.
4	cobalt dichloride*2	231-589-4	7646-79-9	0.02	N.D.
5	Diarsenic pentaoxide*6	215-116-9	1303-28-2	0.02	N.D.
6	Diarsenic trioxide*6	215-481-4	1327-53-3	0.02	N.D.
7	Sodium dichromate*6	234-190-3	7789-12-0 10588-01-9	0.02	N.D.
8	5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	201-329-4	81-15-2	0.02	N.D.
9	Bis(2-thyl(hexyl)phthalate)(DEHP)	204-211-0	117-81-7	0.02	N.D.
10	hexabromocyclododecane(HBCDD)	247-148-4 221-695-9	25637-99-4	0.02	N.D.
11	short chain chlorinated paraffins(SCCPs)	287-476-5	85535-84-8	0.02	N.D.
12	bis(tributyItin)oxide(TBTO)	200-268-0	56-35-9	0.02	N.D.
13	lead hydrogen arsenate*4	232-064-2	7784-40-9	0.02	N.D.
14	triethyl arsenate*6	427-700-2	15606-95-8	0.02	N.D.
15	benzyl butyl phthalate(BBP)	201-622-7	85-68-7	0.02	N.D.
16	Anthracene oil*8	292-602-7	90640-80-5	0.02	N.D.
17	Anthracene oil, anthracene paste, distn, light*8	295-278-5	91995-17-4	0.02	N.D.
18	Anthracene oil, anthracene paste, anthracene fraction*8	295-275-9	91995-15-2	0.02	N.D.
19	Anthracene oil, anthracene-low*8	292-604-8	90640-82-7	0.02	N.D.
20	Anthracene oil, anthracene-paste*8	292-603-2	90640-81-6	0.02	N.D.
21	Coal tar pitch, hightemperature*9	266-028-2	65996-93-2	0.02	N.D.
22	Acrylamide	201-173-7	79-06-01	0.02	N.D.
23	2,4-Dinitrotoluene	204-450-0	121-14-2	0.02	N.D.

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报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020 年 02 月 14 日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

數字 (No.)	测试项目 (TEST ITEM)		EC No.	CAS No.	报告限界 (RL)(% (w/w))	结果 (RESULT)
24	Diisobutyl phthalate		201-553-2	84-69-5	0.02	N.D.
25	Lead chromate*5		231-846-0	7758-97-6	0.02	N.D.
26	Lead chromate molybdate sul (C.I. pigment red 104) *5	phate red	235-759-9	12656-85-8	0.02	N.D.
27	Lead sulfochromate yellow (C.I. pigment yellow 34) *5		215-693-7	1344-37-2	0.02	N.D.
28	Tris(2-chloroethyl)phosphate		204-118-5	115-96-8	0.02	N.D.
29	Trichloroethylene		201-167-4	79-01-06	0.02	N.D.
30	Boric acid*1		233-139-2 234-343-4	10043-35-3 11113-50-1	0.02	N.A.*
31	Disodium tetraborate, anhydi	rous*1	215-540-4	1330-43-4 12179-04-3	0.02	N.A.*
32	Tetraboron disodium heptaox	ide, hydrate <sup>*1</sup>	235-541-3	12267-73-1	0.02	N.A.*
33	Sodium chromate*6		231-889-5	7775-11-03	0.02	N.D.
34	Potassium chromate*6		232-140-5	7789-00-6	0.02	N.D.
35	Ammonium dichromate*6		232-143-1	7789-09-5	0.02	N.D.
36	Potassium dichromate*6		231-906-6	7778-50-9	0.02	N.D.
37	Cobalt(II) sulphate*2		233-334-2	10124-43-3	0.02	N.A.*
38	Cobalt(II) dinitrate*2		233-402-1	10141-05-6	0.02	N.A.*
39	Cobalt(II) carbonate*2		208-169-4	513-79-1	0.02	N.A.*
40	Cobalt(II) diacetate*2		200-755-8	71-48-7	0.02	N.A.*
41	2-Methoxyethanol		203-713-7	109-86-4	0.02	N.D.
42	2-Ethoxyethanol		203-804-1	110-80-5	0.02	N.D.
43	Chromium trioxide*6		215-607-8	1333-82-0	0.02	N.D.
4.4	Acids generated from	Chromic acid	231-801-5	7738-94-5	0.02	N.D.
44	chromium Trioxide and their oligomers*6	Dichromic acid	236-881-5	13530-68-2	0.02	N.D.

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报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020 年 02 月 14 日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

數字 (No.)	测试项目 (TEST ITEM)	EC No.	CAS No.	报告限界 (RL)(% (w/w))	结果 (RESULT)
45	2-ethoxyethyl acetate	203-839-2	111-15-9	0.02	N.D.
46	Strontium chromate*6	232-142-6	7789-06-02	0.02	N.D.
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)	271-084-6	68515-42-4	0.02	N.D.
48	Hydrazine Hydrazing hydrate	206-114-9	302-01-2 7803-57-8	0.02	N.D.
49	1-methyl-2-pyrrolidone	212-828-1	872-50-4	0.02	N.D.
50	1,2,3-trichloropropane	202-486-1	96-18-4	0.02	N.D.
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters(DIHP)	276-158-1	71888-89-6	0.02	N.D.
52	Zirconia Aluminosilicate Refractory Ceramic Fibres*7	-	-	0.02	N.D.
53	Calcium arsenate*6	231-904-5	7778-44-1	0.02	N.D.
54	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	0.02	N.D.
55	Aluminosilicate Refractory Ceramic Fibres*7	-	-	0.02	N.D.
56	Potassium hydroxyoctaoxodizincatedichromate*6	234-329-8	11103-86-9	0.02	N.D.
57	Lead dipicrate*4	229-335-2	6477-64-1	0.02	N.D.
58	N,N-dimethylacetamide	204-826-4	127-19-5	0.02	N.D.
59	Arsenic acid*6	231-901-9	7778-39-4	0.02	N.D.
60	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	0.02	N.D.
61	Trilead diarsenate*4	222-979-5	3687-31-8	0.02	N.D.
62	1,2-dichloroethane	203-458-1	107-06-2	0.02	N.D.
63	Pentazinc chromate octahydroxide*6	256-418-0	49663-84-5	0.02	N.D.
64	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	0.02	N.D.
65	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	0.02	N.D.
66	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	0.02	N.D.
67	Lead diazide, Lead azide*4	236-542-1	13424-46-9	0.02	N.D.

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报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020 年 02 月 14 日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

數字 (No.)	测试项目 (TEST ITEM)	EC No.	CAS No.	报告限界 (RL)(% (w/w))	结果 (RESULT)
68	Phenolphthalein	201-004-7	77-09-08	0.02	N.D.
69	Dichromium tris(chromate) *6	246-356-2	24613-89-6	0.02	N.D.
70	Lead styphnate*4	239-290-0	15245-44-0	0.02	N.D.
71	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	0.02	N.D.
72	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol	229-851-8	6786-83-0	0.02	N.D.
73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	0.02	N.D.
74	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine- 2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6	0.02	N.D.
75	Diboron trioxide*1	215-125-8	1303-86-2	0.02	N.A.*
76	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	0.02	N.D.
77	4,4'-bis(dimethylamino)-4"-(methylamino) trityl alcohol	209-218-2	561-41-1	0.02	N.D.
78	Lead(II) bis(methanesulfonate)*4	401-750-5	17570-76-2	0.02	N.D.
79	Formamide	200-842-0	75-12-07	0.02	N.D.
80	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride	208-953-6	548-62-9	0.02	N.D.
81	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	0.02	N.D.
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride	219-943-6	2580-56-5	0.02	N.D.
83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	0.02	N.D.
84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	0.02	N.D.
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5	0.02	N.D.
86	Pentacosafluorotridecanoic acid	276-745-2	72629-94-8	0.02	N.D.
87	Tricosafluorododecanoic acid	206-203-2	307-55-1	0.02	N.D.

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报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020 年 02 月 14 日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

數字 (No.)	测试项目 (TEST ITEM)	EC No.	CAS No.	报告限界 (RL)(% (w/w))	结果 (RESULT)
88	Henicosafluoroundecanoic acid	218-165-4	2058-94-8	0.02	N.D.
89	Heptacosafluorotetradecanoic acid	206-803-4	376-06-7	0.02	N.D.
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	0.02	N.D.
91	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]	201-604-9 236-086-3 238-009-9	85-42-7, 13149-00-3 14166-21-3	0.02	N.D.
92	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 cisand trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	247-094-1 243-072-0 256-356-4 260-566-1	25550-51-0 19438-60-9 48122-14-1 57110-29-9	0.02	N.D.
93	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]	-	-	0.02	N.D.
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	0.02	N.D.
95	Methoxyacetic acid	210-894-6	625-45-6	0.02	N.D.
96	N,N-dimethylformamide	200-679-5	68-12-2	0.02	N.D.
97	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	0.02	N.D.
98	Lead monoxide (Lead oxide)*4	215-267-0	1317-36-8	0.02	N.D.
99	Orange lead (Lead tetroxide)*4	215-235-6	1314-41-6	0.02	N.D.

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报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020 年 02 月 14 日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

數字 (No.)	测试项目 (TEST ITEM)	EC No.	CAS No.	报告限界 (RL)(% (w/w))	结果 (RESULT)
100	Lead bis(tetrafluoroborate) *4	237-486-0	13814-96-5	0.02	N.D.
101	Trileadbis(carbonate)dihydroxide*4	215-290-6	1319-46-6	0.02	N.D.
102	Lead titanium trioxide*4	235-038-9	12060-00-3	0.02	N.D.
103	Lead titanium zirconium oxide*4	235-727-4	12626-81-2	0.02	N.D.
104	Silicic acid, lead salt*4	234-363-3	11120-22-2	0.02	N.D.
105	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped*4	272-271-5	68784-75-8	0.02	N.D.
106	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	0.02	N.D.
107	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	0.02	N.D.
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	0.02	N.D.
109	Diisopentylphthalate (DIPP)	210-088-4	605-50-5	0.02	N.D.
110	N-pentyl-isopentylphthalate	-	776297-69-9	0.02	N.D.
111	1,2-diethoxyethane	211-076-1	629-14-1	0.02	N.D.
112	Acetic acid, lead salt, basic*4	257-175-3	51404-69-4	0.02	N.D.
113	Lead oxide sulfate*4	234-853-7	12036-76-9	0.02	N.D.
114	[Phthalato(2-)]dioxotrilead*4	273-688-5	69011-06-9	0.02	N.D.
115	Dioxobis(stearato)trilead*4	235-702-8	12578-12-0	0.02	N.D.
116	Fatty acids, C16-18, lead salts*4	292-966-7	91031-62-8	0.02	N.D.
117	Lead cynamidate*4	244-073-9	20837-86-9	0.02	N.D.
118	Lead dinitrate*4	233-245-9	10099-74-8	0.02	N.D.
119	Pentalead tetraoxide sulphate*4	235-067-7	12065-90-6	0.02	N.D.
120	Pyrochlore, antimony lead yellow*4	232-382-1	8012-00-8	0.02	N.D.
121	Sulfurous acid, lead salt, dibasic*4	263-467-1	62229-08-7	0.02	N.D.

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报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020 年 02 月 14 日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

數字 (No.)	测试项目 (TEST ITEM)	EC No.	CAS No.	报告限界 (RL)(% (w/w))	结果 (RESULT)
122	Tetraethyllead*4	201-075-4	78-00-2	0.02	N.D.
123	Tetralead trioxide sulphate*4	235-380-9	12202-17-4	0.02	N.D.
124	Trilead dioxide phosphonate*4	235-252-2	12141-20-7	0.02	N.D.
125	Furan	203-727-3	110-00-9	0.02	N.D.
126	Diethyl sulphate	200-589-6	64-67-5	0.02	N.D.
127	Dimethyl sulphate	201-058-1	77-78-1	0.02	N.D.
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	0.02	N.D.
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	0.02	N.D.
130	4,4'-methylenedi- <i>o</i> -toluidine	212-658-8	838-88-0	0.02	N.D.
131	4,4'-oxydianiline and its salts	202-977-0	101-80-4	0.02	N.D.
132	4-aminoazobenzene	200-453-6	60-09-3	0.02	N.D.
133	4-methyl- <i>m</i> -phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	0.02	N.D.
134	6-methoxy- <i>m</i> -toluidine (p-cresidine)	204-419-1	120-71-8	0.02	N.D.
135	Biphenyl-4-ylamine	202-177-1	92-67-1	0.02	N.D.
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine])	202-591-2	97-56-3	0.02	N.D.
137	o-toluidine	202-429-0	95-53-4	0.02	N.D.
138	N-methylacetamide	201-182-6	79-16-3	0.02	N.D.
139	Cadmium	231-152-8	7440-43-9	0.02	N.D.
140	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	0.02	N.D.
141	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	0.02	N.D.
142	Dipentyl phthalate (DPP)	205-017-9	131-18-0	0.02	N.D.
143	4-Nonylphenol, branched and linear, ethoxylated	-	-	0.02	N.D.
144	Cadmium oxide*3	215-146-2	1306-19-0	0.02	N.D.

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Intertek Testing Services Korea Ltd.







报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020 年 02 月 14 日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

數字	测试项目	EC No.	CAS No.	报告限界	结果
(No.)	(TEST ITEM)			(RL)(% (w/w))	(RESULT)
145	Cadmium sulphide*3	215-147-8	1306-23-6	0.02	N.D.
146	Dihexyl phthalate	201-559-5	84-75-3	0.02	N.D.
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis (4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28)	209-358-4	573-58-0	0.02	N.D.
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)	217-710-3	1937-37-7	0.02	N.D.
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	202-506-9	96-45-7	0.02	N.D.
150	Lead di(acetate) *4	206-104-4	301-04-2	0.02	N.D.
151	Trixylyl phosphate	246-677-8	25155-23-1	0.02	N.D.
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	0.02	N.D.
153	Cadmium chloride*3	233-296-7	10108-64-2	0.02	N.D.
154	Sodium perborate; perboric acid, sodium salt*1	239-172-9; 234-390-0	-	0.02	N.A.*
155	Sodium peroxometaborate*1	231-556-4	2093666	0.02	N.A.*
156	Cadmium fluoride*3	232-222-0	7790-79-6	0.02	N.D.
157	Cadmium sulfate*3	233-331-6	10124-36-4 31119-53-6	0.02	N.D.
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	0.02	N.D.
159	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol(UV-328)	247-384-8	25973-55-1	0.02	N.D.
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetrad	239-622-4	15571-58-1	0.02	N.D.
161	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	-	-	0.02	N.D.

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Intertek Testing Services Korea Ltd.







报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020 年 02 月 14 日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

數字 (No.)	测试项目 (TEST ITEM)	EC No.	CAS No.	报告限界 (RL)(% (w/w))	结果 (RESULT)
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	271-094-0 272-013-1	68515-51-5 68648-93-1	0.02	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 stereoisomers of [1] and [2] or any combination thereof]	-	-	0.02	N.D.
164	1,3-propanesultone	214-317-9	1120-71-4	0.02	N.D.
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	0.02	N.D.
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	0.02	N.D.
167	Nitrobenzene	202-716-0	98-95-3	0.02	N.D.
168	Perfluorononan-1-oic acid(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4	0.02	N.D.
169	Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8	0.02	N.D.
170	4,4'-isopropylidenediphenol (Bisphenol-A)	201-245-8	80-05-7	0.02	N.D.
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3 221-470-5	3108-42-7 335-76-2 3830-45-3	0.02	N.D.
172	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	0.02	N.D.
173	4-Heptylphenol, branched and linear	-	-	0.02	N.D.
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	355-46-4	0.02	N.D.
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.1 $^{6,9}$ .0 $^{2,13}$ .0 $^{5,10}$ ]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) [covering any of its individual anti- and syn-isomers or any combination thereof]	236-948-9	13560-89-9	0.02	N.D.
176	Benz[a]anthracene	200-280-6	56-55-3 1718-53-2	0.02	N.D.
177	Cadmium nitrate*3	233-710-6	10325-94-7	0.02	N.D.

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Intertek Testing Services Korea Ltd.







报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020 年 02 月 14 日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

數字 (No.)	测试项目 (TEST ITEM)	EC No.	CAS No.	报告限界 (RL)(% (w/w))	结果 (RESULT)
178	Cadmium carbonate*3	208-168-9	513-78-0	0.02	N.D.
179	Cadmium hydroxide*3	244-168-5	21041-95-2	0.02	N.D.
180	Chrysene	205-923-4	218-01-9	0.02	N.D.
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]	-	-	0.02	N.D.
182	Benzo[ghi]perylene	205-883-8	191-24-2	0.02	N.D.
183	Decamethyl-cyclopentasiloxane (D5)	208-764-9	541-02-6	0.02	N.D.
184	Disodium octaborate*1	234-541-0	12008-41-2	0.02	N.A.*
185	Dodecamethyl-cyclohexasiloxane (D6)	208-762-8	540-97-6	0.02	N.D.
186	Ethylenediamine (EDA)	203-468-6	107-15-3	0.02	N.D.
187	Lead	231-100-4	7439-92-1	0.02	N.D.
188	Octamethyl-cyclotetrasiloxane (D4)	209-136-7	556-67-2	0.02	N.D.
189	Terphenyl hydrogenated	262-967-7	61788-32-7	0.02	N.D.
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)	209-008-0	552-30-7	0.02	N.D.
191	Dicyclohexyl phthalate (DCHP)	201-545-9	84-61-7	0.02	N.D.
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	0.02	N.D.
193	Fluoranthene	205-912-4	206-44-0	0.02	N.D.
194	Benzo[k]fluoranthene	205-916-6	207-08-9	0.02	N.D.
195	Pyrene	204-927-3	129-00-0	0.02	N.D.
196	Phenanthrene	201-581-5	85-01-8	0.02	N.D.
197	1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan -2-one	239-139-9	15087-24-8	0.02	N.D.

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Intertek Testing Services Korea Ltd.







报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020 年 02 月 14 日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

數字 (No.)	测试项目 (TEST ITEM)	EC No.	CAS No.	报告限界 (RL)(% (w/w))	结果 (RESULT)
198	4-tert-butylphenol	202-679-0	98-54-4	0.02	N.D.
199	2-methoxyethyl acetate	203-772-9	110-49-6	0.02	N.D.
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.02	N.D.
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-	0.02	N.D.
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	0.02	N.D.
203	2-methyl-1-(4-methylthiophenyl)-2- morpholinopropan-1-one	400-600-6	71868-10-5	0.02	N.D.
204	Diisohexyl phthalate	276-090-2	71850-09-4	0.02	N.D.
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.02	N.D.

Tested by : Jooyeon Lee, Seulgi Park, Hyojoo Kim, Miseon Lee

Notes: 1 % (w/w) = 10000 ppm = 10000 mg/kg

< = Less than

N.D. = Not detected (< RL)W

RL = Reporting limit

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报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020 年 02 月 14 日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

Remark:

- \*1 The concentration of the substance is calculated on the basis of the content of specific elements, such as B, Na.
- \*2 The concentration of the substance is calculated on the basis of the content of specific elements, such as Co, Cl.
- \*3 The concentration of the substance is calculated on the basis of the content of specific elements, such as Cd, Cl.
- \*4 The concentration of the substance is calculated on the basis of the content of specific elements, such as Pb, As, B, Ti and Zr.
- \*5 The concentration of the substance is calculated on the basis of the content of specific elements, such as Pb, Cr and Cr<sup>6+</sup>.
- \*6 The concentration of the substance is calculated on the basis of the content of specific elements, such as As, Ca, Cr, Cr<sup>6+</sup>, K, Na, Sr and Zn.
- \*7 The existence of RCFs would be checked using the PLM after screening test of inorganic elements such as AI, Zr and Si. If positive, the concentration of the substances would be calculated on the basis of the content of specific elements.
- \*8 The concentration of the various anthracene oils is based on screening test result of anthracene.
- The concentration of coal tar pitch, high temp. is calculated on sum total of 12 PAHs.
- N.A.\* Not applicable for respective material type.

The submitted sample was found to contain significant amount of specific element(s) of SVHC. Upon further test verification and also information provided from client, the possibility that the element(s)content originate from SVHC is very unlikely, even though their presence cannot be exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.

Definition under 67/548/EEC and Regulation (EC) No 1907/2006

Substances of very high concern (SVHC) are defined in Article 57 of Regulation (EC) No 1907/2006 (the REACH Regulation) and the candidate list published by European Chemicals Agency (ECHA) before and 16 January 2020 and the main categories of SVHCs are CMR, PBT and vPvB compounds. The Candidate List will be regularly updated by ECHA when more substances are identified as SVHC; (Referred to http://echa.europa.eu/candidate-list-table)

- C Carcinogenic category 1 or 2 (Directive 67/548/EEC)
- ➤ M Mutagenic category 1 or 2 (Directive 67/548/EEC)
- ➤ R toxic for Reproduction category 1 or 2 (Directive 67/548/EEC)
- > PBT Persistent, Bioaccumulative and Toxic -see Annex XIII
- > vPvB very Persistent and very Bioaccumulative see Annex XIII
- > Substances of equivalent level of concern (like endocrine disruptors)

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Intertek Testing Services Korea Ltd.







报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020年02月14日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

\* 样品相片;-

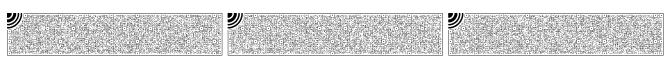
(View of sample as received;-)



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Intertek Testing Services Korea Ltd.







报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2 日期(DATE): 2020 年 02 月 14 日

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

- \* Definition of a substance, a preparation and an article according Article 3 of the REACH Regulation
  - a substance is a chemical element and its compounds in the natural state or obtained by
    any manufacturing process, including any additive necessary to preserve its stability and
    any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the
    stability of the substance or changing its composition;
  - a preparation is a mixture or solution composed of two or more substances;
  - an article (product) is an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition.
- f \* Available information for general obligation and information requirements
  - Substances

**Provide safety data sheet**; As per Article 31 of the REACH Regulation (EC No. 1907/2006), suppliers of substances on the Candidate List have to provide their customers with a safety data sheet from the date of inclusion.

Preparations

**Provide safety data sheet**; As per Article 31 of the REACH Regulation (EC No. 1907/2006), supplier of preparation not classified as dangerous according to Directive 1999/45/EC must provide the recipients, at their request, with a safety data sheet if the preparation contains at least one of the tested substances at 0.1 % (w/w) or above for non gaseous preparation and at least 0.2 % by volume for gaseous preparations sheet from the date of inclusion.

Articles

**Notification**; As per Article 7(2) of Regulation (EC) No 1907/2006 (REACH), EU and EEA producers or importers of articles have to notify ECHA if their article contains a substance on the Candidate List. This obligation applies if the substance is present above 0.1 % (w/w) and its quantities in the produced/imported articles are above 1 tonne in total per year per company. Notification is required beginning June 1, 2011.

Safe use information; As per Article 33 of Regulation (EC) No 1907/2006 (REACH), EU or EEA suppliers of articles which contain substances on the Candidate List in a concentration

above 0.1 % (w/w) have to provide sufficient information, available to them, to their customers or upon requests, to a consumer within 45 days of the receipt of the request. This information must ensure safe use of the article and as minimum contain the name of the substance. The effective date for the safe use information requirement is six months after the SVHC is placed on the Candidate List.

#### Disclaimers;

This testing report for 15 new substances of very high concern (SVHC) in Candidate List announced by European Chemicals Agency (ECHA) is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in assessment report is sufficient for its/his/her purposes.

The quantitative screening results shown in this testing report will be in relation to various factors, including but not limited to, the weight or size of dismantled component and composite test approach, etc. If the contents of SVHC are out of the threshold, further identification is recommended to obtain the information of SVHC in each material.

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Intertek Testing Services Korea Ltd.



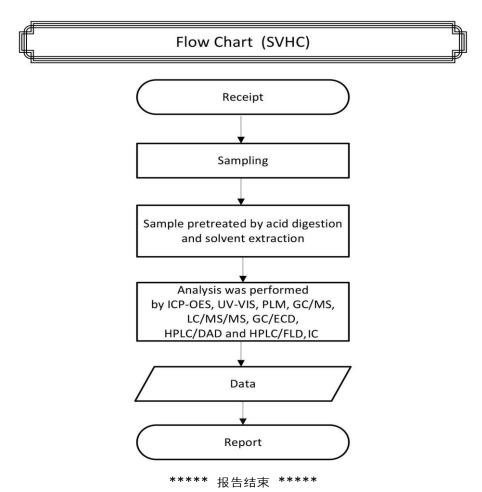




日期(DATE): 2020年02月14日 报告号(REPORT NO.) : RT19R-S2551-002-C2-RA2

样品编号(SAMPLE ID NO.) : RT19R-S2551-002 样品名称(SAMPLE DESCRIPTION)

: CHIP INDUCTOR



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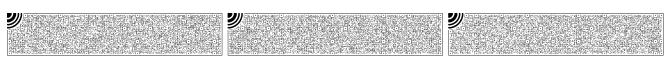
This report is made solely on the basis of your instructions and / or information and materials supplied by you and provide no warranty on the tested sample(s) be truly representative of the sample source. The report is not intended to be a recommendation for any particular course of action, you are responsible for acting as you see fit on the basis of the report results. Intertek is under no obligation to refer to or report upon any facts or circumstances which are outside the specific instructions received and accepts no responsibility to any parties whatsoever, following the issue of the report, for any matters arising outside the agreed scope of the works. This report does not discharge or release you from your legal obligations and duties to any other person. You are the only one authorized to permit copying or distribution of this report (and then only in its entirety). Any such third parties to whom this report may be circulated rely on the content of the report solely at their own risk.

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Intertek Testing Services Korea Ltd.







申请公司(APPLICANT) : SAMSUNG ELECTRO-MECHANICS

公司住所(ADDRESS) : 150. Maeveong-ro. Yeongtong-gu.

Suwon-si, Gyeonggi-do, Korea

报告号(REPORT NO.) : RT20R-S4153-002-C 日期(DATE): 2020年 07月22日

样品描述(SAMPLE DESCRIPTION):

样品名称 : CHIP INDUCTOR

(NAME/TYPE OF PRODUCT)

样品编号 : RT20R-S4153-002

(SAMPLE ID NO.)

生产商/贸易商 : SAMSUNG ELECTRO-MECHANICS

(MANUFACTURER/VENDOR)

: 2019年 10月23日 样品收到日期

(SAMPLE RECEIVED)

(TESTING DATE)

测试进行日期 : 2020年 07月14日至 2020年 07月20日

**TEST TYPE** 

: Chemical Testing – four(4) substances of very high concern (SVHC) based on the SVHC Candidate List announced by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006

concerning REACH

SUMMARY OF TEST RESULT(S) : According to specified test processes in this report, contents of all substances of very high concern (SVHC) in Candidate List published by ECHA are less than 0.1 % (w/w) in submitted sample(s).

For more details, please see the following page(s).

注1:检测结果只是针对来样所做的测试.

(Note 1 : The test results presented in this report relate only to the object tested.)

注2: 未经测试实验室书面允许. 报告不能被部分复制.

(Note 2: This report shall not be reproduced except in full without the written approval of the testing laboratory.)

测试 (Approved by):

Jade Jang / 测试负责人

批准 (Authorized by):

Bo Park / 实验室经理

Authenticity check

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报告号(REPORT NO.) : RT20R-S4153-002-C 日期(DATE): 2020 年 07 月 22 日

样品编号(SAMPLE ID NO.) : RT20R-S4153-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

數字 (No.)	测试项目 (TEST ITEM)	EC No.	CAS No.	报告限界 (RL)(% (w/w))	结果 (RESULT) (% (w/w))
1	1-vinylimidazole	214-012-0	1072-63-5	0.02	N.D.
2	2-methylimidazole	211-765-7	693-98-1	0.02	N.D.
3	Butyl 4-hydroxybenzoate	202-318-7	94-26-8	0.02	N.D.
4	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	0.02	N.D.

Tested by : Jessica Kang

Notes : 1 % (w/w) = 10000 ppm = 10000 mg/kg

< = Less than

N.D. = Not detected (< RL)
RL = Reporting limit

Remark: Definition under 67/548/EEC and Regulation (EC) No 1907/2006

Substances of very high concern (SVHC) are defined in Article 57 of Regulation (EC) No 1907/2006 (the REACH Regulation) and the candidate list published by European Chemicals Agency (ECHA) before and **25 June 2020** and the main categories of SVHCs are CMR, PBT and vPvB compounds. The Candidate List will be regularly updated by ECHA when more substances are identified as SVHC; (Referred to http://echa.europa.eu/candidate-list-table)

- C Carcinogenic category 1 or 2 (Directive 67/548/EEC)
- ➤ M Mutagenic category 1 or 2 (Directive 67/548/EEC)
- ➤ **R** toxic for Reproduction category 1 or 2 (Directive 67/548/EEC)
- > PBT Persistent, Bioaccumulative and Toxic -see Annex XIII
- > vPvB very Persistent and very Bioaccumulative see Annex XIII
- > Substances of equivalent level of concern (like endocrine disruptors)

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Intertek Testing Services Korea Ltd.







报告号(REPORT NO.) : RT20R-S4153-002-C 日期(DATE): 2020 年 07 月 22 日

样品编号(SAMPLE ID NO.) : RT20R-S4153-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

\* 样品相片;-

(View of sample as received;-)



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Intertek Testing Services Korea Ltd.







报告号(REPORT NO.) : RT20R-S4153-002-C 日期(DATE): 2020 年 07 月 22 日

样品编号(SAMPLE ID NO.) : RT20R-S4153-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR

- \* Definition of a substance, a preparation and an article according Article 3 of the REACH Regulation;
  - a substance is a chemical element and its compounds in the natural state or obtained by
    any manufacturing process, including any additive necessary to preserve its stability and
    any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the
    stability of the substance or changing its composition;
  - a **preparation** is a mixture or solution composed of two or more substances;
  - an article (product) is an object which during production is given a special shape, surface or design which determines its
    function to a greater degree than does its chemical composition.
- \* Available information for general obligation and information requirements;
  - Substances

**Provide safety data sheet**; As per Article 31 of the REACH Regulation (EC No. 1907/2006), suppliers of substances on the Candidate List have to provide their customers with a safety data sheet from the date of inclusion.

Preparations

**Provide safety data sheet**; As per Article 31 of the REACH Regulation (EC No. 1907/2006), supplier of preparation not classified as dangerous according to Directive 1999/45/EC must provide the recipients, at their request, with a safety data sheet if the preparation contains at least one of the tested substances at 0.1 % (w/w) or above for non gaseous preparation and at least 0.2 % by volume for gaseous preparations sheet from the date of inclusion.

Articles

**Notification**; As per Article 7(2) of Regulation (EC) No 1907/2006 (REACH), EU and EEA producers or importers of articles have to notify ECHA if their article contains a substance on the Candidate List. This obligation applies if the substance is present above 0.1 % (w/w) and its quantities in the produced/imported articles are above 1 tonne in total per year per company. Notification is required beginning June 1, 2011.

Safe use information; As per Article 33 of Regulation (EC) No 1907/2006 (REACH), EU or EEA suppliers of articles which contain substances on the Candidate List in a concentration

above 0.1 % (w/w) have to provide sufficient information, available to them, to their customers or upon requests, to a consumer within 45 days of the receipt of the request. This information must ensure safe use of the article and as minimum contain the name of the substance. The effective date for the safe use information requirement is six months after the SVHC is placed on the Candidate List.

#### Disclaimers;

This testing report for substances of very high concern (SVHC) in candidate list promulgated by European Chemicals Agency (ECHA) is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in assessment report is sufficient for its/his/her purposes.

The quantitative screening results shown in this testing report will be in relation to various factors, including but not limited to, the weight or size of dismantled component and composite test approach, etc. If the contents of SVHC are out of the threshold, further identification is recommended to obtain the information of SVHC in each material.

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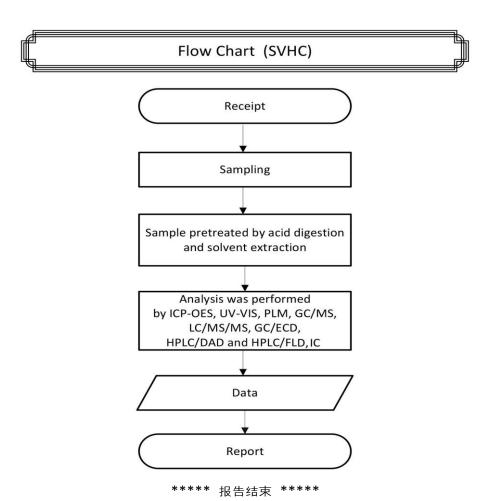






报告号(REPORT NO.) : RT20R-S4153-002-C 日期(DATE): 2020 年 07 月 22 日

样品编号(SAMPLE ID NO.) : RT20R-S4153-002 样品名称(SAMPLE DESCRIPTION) : CHIP INDUCTOR



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