

Test Report

Report No: SAC2024-0331302E

Date: May 31, 2024

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Customer :
Address :

Sample Information

Sample Name : Calculator raw materials
Sample Description : Please refer to the following pages.
Model/P.O. No. :
Item/Lot No. : /
Material : /
Buyer : /
Supplier : /
Manufacturer : UNIWILL Technology Co., Ltd.
Received Date : Mar. 14, 2024
Test Period : Mar. 14, 2024~ May 30, 2024
Test Requested : As specified by customer, 240 Substances in the Candidate List of Very High Concern (SVHC) screening are performed according to European Chemicals Agency (ECHA) on and before Jan 23, 2024 regarding Regulation (EC) No.1907/2006 concerning the REACH.
Test Method : Use In-House method, Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC, GC-FID, HS-GC-FID and LC-MS and Colorimetric Method.
Test Results : Please refer to the following pages.
Regulation Request : Under REACH Regulation(EC) No 1907/2006, suppliers of articles which contain SVHC in a concentration above 0.1%(w/w) have to provide sufficient information, to articles recipients, 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.

Test Conclusion: To test according to the customer's requirements, the test results of group 1# SVHC is >0.1%(w/w) in the submitted sample.

Edited by: chenying

Audited by: Cardy

Approved by: Allen


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Sample Description:

Sample parts	Sample No.	Sample Description
1#	1-1-1	White plastic of wire jacket
	1-2	Red plastic of wire jacket
	7-1	Black rubber foot pad
	7-2-1	Black rubber foot pad
	7-2-2	Black rubber foot pad
	10-1	Black plastic pocket
	11-1	Grey plastic pellet
	11-2	Blue plastic pellet
	11-3	Orange plastic pellet
	11-4	Black plastic pellet
	11-5	White plastic pellet
	11-6	Red plastic pellet
	11-7	Beige plastic pellet
	20	Black plastic pellet
	23-1	Transparent plastic sucker
	23-2	Transparent plastic sucker
	23-3	Transparent plastic sucker
	24	White foam
	28-1-1	Grey plastic film
	28-1-2	Transparent glass board
	28-1-3	Grey plastic film
	28-1-4	Silvery plastic film
	28-2-1	Grey plastic film
	28-2-2	Transparent glass board
	28-2-3	Grey plastic film
	28-2-4	Silvery plastic film
	28-3-1	Grey plastic film
	28-3-2	Transparent glass board
	28-3-3	Grey plastic film
	35	Yellow plastic tie
	38	Transparent plastic of bubble pack
	39-1	Transparent plastic of PP bag
	39-2	Translucent plastic of PO bag
	39-3	Transparent plastic of OPP bag
	39-4	Transparent plastic of PE bag
43-1	Black plastic shell of speaker	

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Sample parts	Sample No.	Sample Description
1#	43-2	Black plastic washer
	2-1	Green PCB board
2#	2-2	Green PCB board
	2-3	Green PCB board
	29-1	Black plastic wrapper of capacitor
	29-3	Black rubber pad
	29-4	Yellow wet paper
	30-1	Brown ceramic capacitor
	30-2	Brown ceramic capacitor
	31-1	Black audion
	31-2	Black audion
	32	Transparent glass board
	33	Transparent/red/black glass of diode
	34-1	Black plastic wrapper of inductance
	34-2	Grey inductance
	34-3	Grey plastic washer
	43-8	Green PCB board
	45	Brown integrated block
	46	Black-grey strip of connector paper
	47	White printed grey PVC board
	48	Transparent plastic of insulation ring
	49	Black plastic of insulation paper
	50	Black printed white plastic of protective film
	51	Black plastic of switch
	52	White printed rose plastic board
	56-2	White plastic button
	56-4	White plastic button
	60	Black rubber pellet
	41-1	Grey rope
	41-2	Green rope
	41-3	Blue rope
	41-4	Orange rope
	41-5	Grey-black rope
	9-1	Green sticker
9-2	Red sticker	
9-3	Orange sticker	
9-4	Black sticker	

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Sample parts	Sample No.	Sample Description
2#	9-5	Blue sticker
	9-6	White sticker
3#	17-1	Blue PS paint
	17-2	Black PS paint
	17-3	Green PS paint
	17-4	Red PS paint
	17-5	Grey PS paint
	17-6	White PS paint
	17-7	Orange PS paint
	18-1	Grey UV paint
	18-2	Orange UV paint
	18-3	Blue UV paint
	18-4	Black UV paint
	18-5	Green UV paint
	18-6	White UV paint
	18-7	Red UV paint
	19-1	Silvery paint
	19-2	Golden paint
	21-1	Blue powder
	21-2	Red powder
	21-3	Black powder
	21-4	White powder
	21-5	Orange powder
	6	Grey solder paste
	14	Black solid glue
	15	Yellow solid glue
	16	Red glue
	25-1	White dry glue
	25-2	White dry glue
	10-2	White paper board
	26-1	Multi-color printed white paper box
	26-2	Multi-color printed white paper box
	27-1	Multi-color printed white paper board
	27-2	Multi-color printed white paper board
36	Black printed brown paper box	
37	White paper roller	
40	Black printed white paper of instruction	

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Sample parts	Sample No.	Sample Description
3#	58	White double-side adhesive tape
	59	White glue
	61	Transparent adhesive tape
4#	1-1-2	Coppery metal of wire core
	3	Silvery metal shrapnel
	4-1	Black plating
	4-2	Silvery metal substrate of screw
	5	Silvery metal of solder wire
	8	Black printed silvery metal board
	12	Silvery metal of battery button
	13-1	Bright blue plating
	13-2	Silvery metal substrate
	22	Silvery metal staple
	29-2	Silvery metal shell
	29-5	Grey metal of negative electrode
	29-6	Grey metal of positive electrode
	29-7	Silvery metal pin
	34-4	Coppery metal of wire core
	34-5	Silvery metal pin
	42-1	Silvery metal of oscillator
	42-2	Silvery metal pin of oscillator
	43-3	Grey metal magnet
	43-4	Silvery metal plate
	43-5	Silvery metal plate
	43-6	Coppery metal of wire core
	43-7	Silvery metal solder
	44-1	Silvery metal sheet
	44-2	Silvery/black metal buzzer
	44-3	Coppery metal sheet
	53	Silvery metal plug
	54-1	Bright coppery plating
	54-2	Silvery metal substrate of keyring
	54-3	Bright coppery plating
	54-4	Silvery metal substrate of clasp of keyring
	54-5	Bright coppery plating
54-6	Silvery metal substrate of sleeve ring	
54-7	Bright coppery plating	

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Sample parts	Sample No.	Sample Description
4#	54-8	Silvery metal substrate of hanger of keyring
	55	Silvery metal spring
	56-1	Silvery plating
	56-3	Silvery plating
	57	Silvery metal wire

Test Result: (Substances in the Candidate List of SVHC)

Substances Name	CAS No.	Result(s) (%)	RL(%)
		1#	
Triphenyl phosphate	115-86-6	0.13	0.01
All tested Potential SVHC (Except above Triphenyl phosphate)	--	N.D.	--

Substances Name	CAS No.	Result(s) (%)		RL(%)
		2## ¹	4## ³	
Lead	7439-92-1	0.09	0.08	0.01
All tested SVHC in candidate list (Except above Lead)	--	N.D.	N.D.	--

Substances Name	CAS No.	Result(s) (%)	RL(%)
		3## ²	
2-methyl-1(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.02	0.01
All tested Potential SVHC (Except above Triphenyl phosphate)	--	N.D.	--

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Results (Full list of tested SVHC):

The first fifteen Substances of Very High Concern (Released in Oct 28, 2008)

No.	Substances	CAS No.	RL(%)
1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.01
2	5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2	0.01
3	Alkanes,C10-13,chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.01
4	Anthracene	120-12-7	0.01
5	Benzyl butyl phthalate (BBP)	85-68-7	0.01
6	Bis(2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	0.01
7	Bis(tributyltin) oxide (TBTO)	56-35-9	0.01
8	Cobalt dichloride **	7646-79-9	0.01
9	Diarsenic pentaoxide **	1303-28-2	0.01
10	Diarsenic trioxide **	1327-53-3	0.01
11	Dibutyl phthalate (DBP)	84-74-2	0.01
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	25637-99-4 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	0.01
13	Lead hydrogen arsenate **	7784-40-9	0.01
14	Sodium dichromate**	7789-12-0 10588-01-9	0.01
15	Triethyl arsenate**	15606-95-8	0.01

The second thirteen Substances of Very High Concern (Released in Jan 13, 2010 and Mar 30, 2010)

No.	Substances	CAS No.	RL(%)
16	2,4-Dinitrotoluene	121-14-2	0.01
17	Acrylamide	79-06-1	0.01
18	Anthracene oil	90640-80-5	0.01
19	Anthracene oil, anthracene paste	90640-81-6	0.01
20	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.01
21	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	0.01
22	Anthracene oil, anthracene-low	90640-82-7	0.01

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No.	Substances	CAS No.	RL(%)
23	Diisobutyl phthalate (DIBP)	84-69-5	0.01
24	Lead chromate **	7758-97-6	0.01
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) **	12656-85-8	0.01
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34) **	1344-37-2	0.01
27	Pitch, coal tar, high temp	65996-93-2	0.01
28	Tris(2-chloroethyl) phosphate	115-96-8	0.01

The third eight Substances of Very High Concern (Released in Jun 18, 2010)

No.	Substances	CAS No.	RL(%)
29	Ammonium dichromate **	7789-09-5	0.01
30	Boric acid **	10043-35-3 11113-50-1	0.01
31	Disodium tetraborate, anhydrous **	1330-43-4 12179-04-3 1303-96-4	0.01
32	Potassium chromate **	7789-00-6	0.01
33	Potassium Dichromate **	7778-50-9	0.01
34	Sodium chromate **	7775-11-3	0.01
35	Tetraborate disodium heptaoxide, hydrous **	12267-73-1	0.01
36	Trichloroethylene	79-01-6	0.01

The fourth eight Substances of Very High Concern (Released in Dec 15, 2010)

No.	Substances	CAS No.	RL(%)
37	2-Ethoxyethanol	110-80-5	0.01
38	2-Methoxyethanol	109-86-4	0.01
39	Chromic acid** Dichromic acid** Oligomers of chromic acid and dichromic acid**	7738-94-5 13530-68-2 --	0.01
40	Chromium trioxide**	1333-82-0	0.01
41	Cobalt(II) carbonate **	513-79-1	0.01
42	Cobalt(II) diacetate **	71-48-7	0.01

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No.	Substances	CAS No.	RL(%)
43	Cobalt(II) dinitrate **	10141-05-6	0.01
44	Cobalt(II) sulphate **	10124-43-3	0.01

The fifth seven Substances of Very High Concern (Released in Jun 20, 2011)

No.	Substances	CAS No.	RL(%)
45	1,2,3-Trichloropropane	96-18-4	0.01
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	0.01
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)*	68515-42-4	0.01
48	1-methyl-2-pyrrolidone	872-50-4	0.01
49	2-Ethoxyethyl acetate	111-15-9	0.01
50	Hydrazine	7803-57-8; 302-01-2	0.01
51	Strontium chromate**	7789-06-2	0.01

The sixth twenty Substances of Very High Concern (Released in Dec 19, 2011)

No.	Substances	CAS No.	RL(%)
52	1,2-Dichloroethane	107-06-2	0.01
53	4,4'-methylenebis[2-chloroaniline]	101-14-4	0.01
54	2-Methoxyaniline; o-Anisidine	90-04-0	0.01
55	4-(1,1,3,3-tetramethylbutyl) phenol,(4-tert-Octylphenol)	140-66-9	0.01
56	Aluminosilicate Refractory Ceramic Fibres(RCF) **	--	0.01
57	Arsenic acid**	7778-39-4	0.01
58	Bis(2-methoxyethyl) ether	111-96-6	0.01
59	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	0.01
60	Calcium arsenate**	7778-44-1	0.01
61	Dichromium tris(chromate) **	24613-89-6	0.01
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	0.01
63	Lead diazide Lead azide**	13424-46-9	0.01
64	Lead dipicrate**	6477-64-1	0.01

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No.	Substances	CAS No.	RL(%)
65	Lead styphnate**	15245-44-0	0.01
66	N,N-dimethylacetamide (DMAC)	127-19-5	0.01
67	Pentazinc chromate octahydroxide**	49663-84-5	0.01
68	Phenolphthalein	77-09-8	0.01
69	Potassium hydroxyoctaoxodizincatedichromate **	11103-86-9	0.01
70	Trilead diarsenate**	3687-31-8	0.01
71	Zirconia Aluminosilicate Refractory Ceramic Fibres(Zr-RCF) **	--	0.01

The seventh thirteen Substances of Very High Concern (Released in Jun 18, 2012)

No.	Substances	CAS No.	RL(%)
72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino) phenyl]methylene] cyclohexa-2, 5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	0.01
73	[4-[4,4'-bis (dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	0.01
74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.01
75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.01
76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.01
77	4,4'-bis(dimethylamino)-4''- (methylamino) trityl alcohol	561-41-1	0.01
78	Diboron trioxide**	1303-86-2	0.01
79	Formamide	75-12-7	0.01
80	Lead (II) bis (methanesulfonate)**	17570-76-2	0.01
81	N,N,N',N'-tetramethyl -4,4'- methylenedianiline (Michler'sbase)	101-61-1	0.01
82	TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.01
83	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	0.01
84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3- epoxypropyl]-1, 3,5-triazine-2,4,6- (1H,3H,5H)-trione)	59653-74-6	0.01

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The eighth fifty-four Substances of Very High Concern (Released in Dec 19, 2012)

No.	Substances	CAS No.	RL(%)
85	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)**	69011-06-9	0.01
86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.01
87	1,2-Diethoxyethane	629-14-1	0.01
88	1-Bromopropane; n-propyl bromide	106-94-5	0.01
89	3-Ethyl-2-methyl-2-(3-methylbutyl)- 1,3-oxazolidine	143860-04-2	0.01
90	4-(1,1,3,3-tetramethylbutyl) phenol, Ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues	--	0.01
91	4,4'-Methylenedi-o-toluidine	838-88-0	0.01
92	4,4'-Oxydianiline and its salts	101-80-4	0.01
93	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	0.01
94	4-Methyl-m-phenylenediamine (2,4- toluene-diamine)	95-80-7	0.01
95	4-Nonylphenol, branched and linear-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	--	0.01
96	6-Methoxy-m-toluidine (p- cresidine)	120-71-8	0.01
97	Acetic acid, lead salt, basic**	51404-69-4	0.01
98	Biphenyl-4-ylamine	92-67-1	0.01
99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.01
100	Cyclohexane-1,2-dicarboxylic Anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7, 13149-00-3, 14166-21-3	0.01
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.01
102	Dibutyltin dichloride (DBTC)	683-18-1	0.01
103	Diethyl sulphate	64-67-5	0.01
104	Diisopentylphthalate (DIPP)	605-50-5	0.01
105	Dimethyl sulphate	77-78-1	0.01
106	Dinoseb	88-85-7	0.01
107	Dioxobis(stearato)trilead**	12578-12-0	0.01

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No.	Substances	CAS No.	RL(%)
108	Fatty acids, C16-18, lead salts**	91031-62-8	0.01
109	Furan	110-00-9	0.01
110	Henicosaflluoroundecanoic acid	2058-94-8	0.01
111	Heptacosaflluorotetradecanoic acid	376-06-7	0.01
112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	0.01
113	Lead bis(tetrafluoroborate)**	13814-96-5	0.01
114	Lead cyanamidate**	20837-86-9	0.01
115	Lead dinitrate**	10099-74-8	0.01
116	Lead oxide (Lead monoxide)**	1317-36-8	0.01
117	Lead oxide sulfate (basic lead sulfate)**	12036-76-9	0.01
118	Lead tetroxide (orange lead)**	1314-41-6	0.01
119	Lead titanium trioxide**	12060-00-3	0.01
120	Lead Titanium Zirconium Oxide**	12626-81-2	0.01
121	Methoxy acetic acid	625-45-6	0.01
122	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	0.01
123	N,N-dimethylformamide; dimethylformamide	68-12-2	0.01
124	N-methylacetamide	79-16-3	0.01
125	N-pentyl-isopentylphthalate	776297-69-9	0.01
126	o-Aminoazotoluene	97-56-3	0.01
127	o-Toluidine; 2- Aminotoluene	95-53-4	0.01
128	Pentacosaflluorotridecanoic acid	72629-94-8	0.01
129	entalead tetraoxide sulphate**	12065-90-6	0.01
130	Pyrochlore, antimony lead yellow**	8012-00-8	0.01
131	Silicic acid, barium salt, lead-doped**	68784-75-8	0.01
132	Silicic acid, lead salt**	11120-22-2	0.01
133	Sulfurous acid, lead salt, dibasic**	62229-08-7	0.01
134	Tetraethyllead**	78-00-2	0.01
135	Tetralead trioxide sulphate**	12202-17-4	0.01
136	Tricosaflluorododecanoic acid	307-55-1	0.01

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No.	Substances	CAS No.	RL(%)
137	Basic lead carbonate(trilead bis(carbonate)dihydroxide) **	1319-46-6	0.01
138	Trilead dioxide phosphonate**	12141-20-7	0.01

The ninth six Substances of Very High Concern (Released in Jun 20, 2013)

No.	Substances	CAS No.	RL(%)
139	4-Nonylphenol (branched and linear) ethoxy ether	--	0.01
140	APFO	3825-26-1	0.01
141	Cadmium oxide	1306-19-0	0.01
142	Cadmium	7440-43-9	0.01
143	DPP	131-18-0	0.01
144	PFOA	335-67-1	0.01

The tenth seven Substances of Very High Concern (Released in Dec 16, 2013)

No.	Substances	CAS No.	RL(%)
145	Cadmium sulphide	1306-23-6	0.01
146	Dihexyl phthalate (DHXP)	84-75-3	0.01
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.01
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.01
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.01
150	Lead di(acetate)	301-04-2	0.01
151	Trixylyl phosphate	25155-23-1	0.01

The eleventh four Substances of Very High Concern (Released in Jun 16, 2014)

No.	Substances	CAS No.	RL(%)
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.01
153	Cadmium chloride	10108-64-2	0.01
154	Sodium perborate; perboric acid, sodium salt	--	0.01
155	Sodium peroxometaborate	7632-04-4	0.01

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The twelfth six Substances of Very High Concern (Released in Dec 17, 2014)

No.	Substances	CAS No.	RL(%)
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.01
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.01
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	0.01
159	Reaction mass of 2-ethylhexyl10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	--	0.01
160	Cadmium fluoride	7790-79-6	0.01
161	Cadmium sulphate	10124-36-4; 31119-53-6	0.01

The thirteenth two Substances of Very High Concern (Released in Jun 15, 2015)

No.	Substances	CAS No.	RL(%)
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyldiesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5, 68648-93-1	0.01
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	--	0.01

The fourteenth five Substances of Very High Concern (Released in Dec 17, 2015)

No.	Substances	CAS No.	RL(%)
164	Nitrobenzene	98-95-3	0.01
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.01
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.01
167	1,3-propanesultone	1120-71-4	0.01

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No.	Substances	CAS No.	RL(%)
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	0.01

The fifteenth one Substances of Very High Concern (Released in Jun 20, 2016)

No.	Substances	CAS No.	RL(%)
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.01

The sixteenth four Substances of Very High Concern (Released in Dec 19, 2016)

No.	Substances	CAS No.	RL(%)
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.01
171	4-heptylphenol, branched and linear (4-HPbl)	/	0.01
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	0.01
173	p-(1,1-dimethylpropyl)phenol (PTAP)	80-46-6	0.01

The seventeenth one Substance of Very High Concern (Released in Jul 07, 2017)

No.	Substances	CAS No.	RL(%)
174	Perfluorohexane-1-sulphonic acid and its salts(PFHXS)	355-46-4	0.01

The eighteenth seven Substances of Very High Concern (Released in Jan 15, 2018)

No.	Substances	CAS No.	RL(%)
175	Chrysene	218-01-9 1719-03-5	0.01
176	Benz[a]anthracene	56-55-3 1718-53-2	0.01
177	Cadmium nitrate **	10325-94-7 10022-68-1	0.01
178	Cadmium hydroxide **	21041-95-2	0.01
179	Cadmium carbonate **	513-78-0	0.01

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No.	Substances	CAS No.	RL(%)
180	Dechlorane Plus(TM)	--	0.01
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	--	0.01

The nineteenth ten Substances of Very High Concern (Released in Jun 27, 2018)

No.	Substances	CAS No.	RL(%)
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.01
183	Decamethylcyclopentasiloxane (D5)	541-02-6	0.01
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.01
185	Lead	7439-92-1	0.01
186	Disodium octaborate	12008-41-2	0.01
187	Benzo[ghi]perylene	191-24-2	0.01
188	Terphenyl hydrogenated	61788-32-7	0.01
189	Ethylenediamine (EDA)	107-15-3	0.01
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.01
191	Dicyclohexyl phthalate (DCHP)	84-61-7	0.01

The twentieth six Substances of Very High Concern (Released in Jan 15, 2019)

No.	Substances	CAS No.	RL(%)
192	Pyrene	129-00-0; 1718-52-1	0.01
193	Phenanthrene	85-01-8	0.01
194	Fluoranthene	206-44-0; 93951-69-0	0.01
195	Benzo[k]fluoranthene	207-08-9	0.01
196	2,2-bis(4'-hydroxyphenyl)-4-met hylpentane	6807-17-6	0.01
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	0.01

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The twenty-one four Substances of Very High Concern (Released in Jul 16, 2019)

No.	Substances	CAS No.	RL(%)
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid,Its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	--	0.01
199	4-tert-butylphenol	98-54-4	0.01
200	2-methoxyethyl acetate	110-49-6	0.01
201	Tris(4-nonylphenyl,branched and linear) phosphate(TNPP) with \geq 0.1% W/W of 4-nonylphenol, branched and linear(4-NP)	--	0.01

The twenty-two four Substances of Very High Concern (Released in Jan 16, 2020)

No.	Substances	CAS No.	RL(%)
202	Perfluorobutane sulfonic acid(PFBS)and its salts	--	0.01
203	Diisohexyl phthalate	71850-09-4	0.01
204	2-methyl-1(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.01
205	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.01

The twenty- three four Substances of Very High Concern (Released in Jun 16, 2020)

No.	Substances	CAS No.	RL(%)
206	1-vinylimidazole	1072-63-5	0.01
207	2-methylimidazole	693-98-1	0.01
208	Butyl 4-hydroxybenzoate	94-26-8	0.01
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	0.01

The twenty-four tow Substances of Very High Concern (Released in Jan 19, 2021)

No.	Substances	CAS No.	RL(%)
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.01
211	Diocetyl tin dilaurate, stannane,dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fattyacyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	--	0.01

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The twenty-five eight Substances of Very High Concern (Released in Jul 8, 2021)

No.	Substances	CAS No.	RL(%)
212	1,4-dioxane	123-91-1	0.01
213	2,2-bis(bromomethyl)propane 1,3-diol(BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2, 2-bis (bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	0.01
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	--	0.01
215	4,4'-(1-methylpropylidene)bisphenol (bisphenol B)	77-40-7	0.01
216	Glutaral	111-30-8	0.01
217	(Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17])	--	0.01
218	Orthoboric acid, sodium salt**	13840-56-7	0.01
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof(PDDP))	--	0.01

The twenty-six four Substances of Very High Concern (Released in Jan 17, 2022)

No.	Substances	CAS No.	RL(%)
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1] heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBc)	--	0.01
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(DBMC)	119-47-1	0.01
222	s-(tricyclo[5.2.1.0 ^{2,6}]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.01
223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.01

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The twenty-seven one Substance of Very High Concern (Released in Jun 10, 2022)

No.	Substances	CAS No.	RL(%)
224	N-(hydroxymethyl)acrylamide	924-42-5	0.01

The twenty-eight nine Substances of Very High Concern (Released in Jan 17, 2023)

No.	Substances	CAS No.	RL(%)
225	1,1'-[ethane-1,2-diylbisoxo]bis[2,4,6-tribromobenzene]	37853-59-1	0.01
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.01
227	4,4'-sulphonyldiphenol	80-09-1	0.01
228	Barium diboron tetraoxide**	13701-59-2	0.01
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	--	0.01
230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.01
231	Melamine	108-78-1	0.01
232	Perfluoroheptanoic acid and its salts	--	0.01
233	Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl) morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl) morpholine	--	0.01

The twenty-nine two Substances of Very High Concern (Released in Jun 14, 2023)

No.	Substances	CAS No.	RL(%)
234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.01
235	Bis(4-chlorophenyl) sulphone	80-07-9	0.01

The thirty five Substances of Very High Concern (Released in Jan 23, 2024)

No.	Substances	CAS No.	RL(%)
236	2,4,6-tri-tert-butylphenol	732-23-6	0.01
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147-75-9	0.01
238	2-(dimethylamino)-2-[(4methvinhenvmethvl-1.14.(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.01
239	Bumetizole	3896-11-5	0.01
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	--	0.01

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Remark:

- N.D. =Not Detected (<RL)
- RL = Report Limit
- *The detected DHNUP are consisted of six phthalates which CAS number is 85507-79-5, 68515-44-6, 68515-45-7, 111381-89-6, 111381-90-9 and 111381-91-0 according to the Annex 15 of REACH.
- **According to the 5.2.1 item of the fourth version of ECHA “Guidance on requirements for substances in articles”, 2017, 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 an identification of substances in a sample(s) when necessary.
- Report Results: Based on measurements in most cases will identify the chemical constituents in the sample(s) 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 fourth version of ECHA “Guidance on requirements for substances in articles”, 2017.
- Report Limit: Be obtained from the uncertainty, the 0.1% threshold and the ECHA “Guidance on requirements for substances in articles”.
- #1: According to the customer's statement: The test sample does not contain lead compounds (see the table below for details).

Substances Name	CAS No.
Lead diazide Lead azide	13424-46-9
Lead dipicrate	6477-64-1
Lead (II) bis (methanesulfonate)	17570-76-2
Acetic acid, lead salt, basic	51404-69-4
Lead cyanamidate	20837-86-9
Lead dinitrate	10099-74-8
Lead oxide (Lead monoxide)	1317-36-8
Lead tetroxide (orange lead)	1314-41-6
Silicic acid, lead salt	11120-22-2
Tetraethyllead	78-00-2
Tetralead trioxide sulphate	12202-17-4
Basic lead carbonate(trilead bis(carbonate)dihydroxide)	1319-46-6
Lead di(acetate)	301-04-2

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-#2: According to the customer's statement: The test sample does not contain Boron, sodium, barium compounds (see the table below for details).

Substances Name	CAS No.
Boric acid	10043-35-3 11113-50-1
Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4
Tetraborate disodium heptaoxide, hydrous	12267-73-1
Diboron trioxide	1303-86-2
Sodium perborate; perboric acid, sodium salt	--
Sodium peroxometaborate	7632-04-4
Disodium octaborate	12008-41-2
Orthoboric acid, sodium salt	13840-56-7
Barium diboron tetraoxide	13701-59-2

-#3: According to the customer's statement: The test sample does not contain lead compounds (see the table below for details).

Substances Name	CAS No.
Lead diazide Lead azide	13424-46-9
Lead dipicrate	6477-64-1
Lead (II) bis (methanesulfonate)	17570-76-2
Acetic acid, lead salt, basic	51404-69-4
Lead cyanamidate	20837-86-9
Lead dinitrate	10099-74-8
Lead oxide (Lead monoxide)	1317-36-8
Lead tetroxide (orange lead)	1314-41-6
Tetraethyllead	78-00-2
Tetralead trioxide sulphate	12202-17-4
Basic lead carbonate(trilead bis(carbonate)dihydroxide)	1319-46-6
Lead di(acetate)	301-04-2

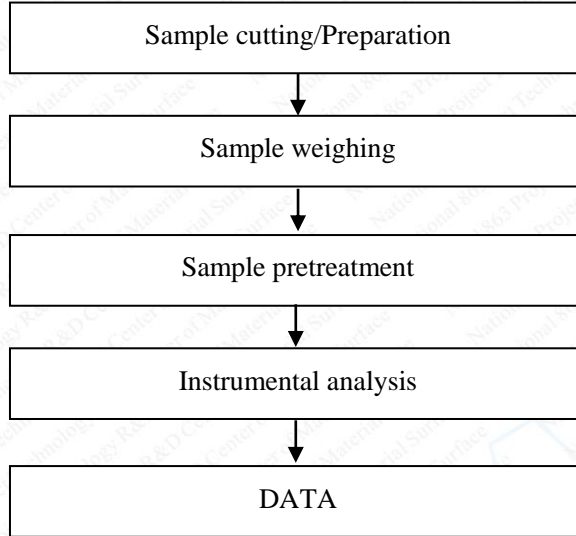
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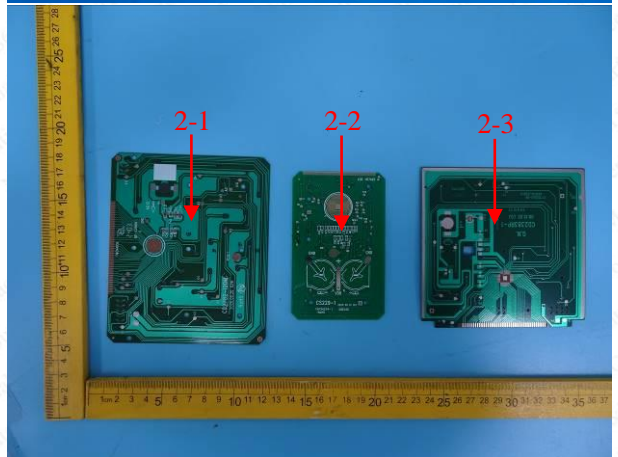
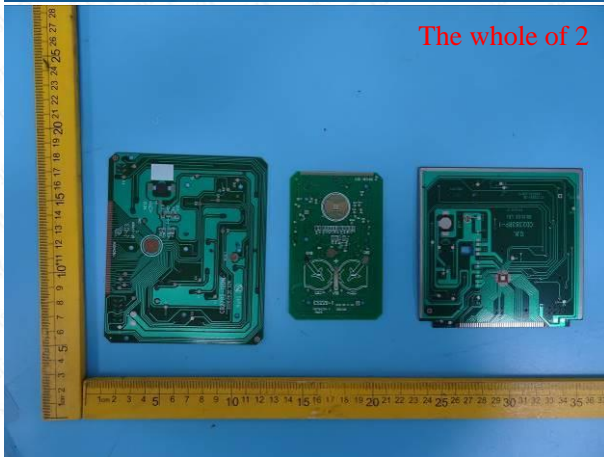
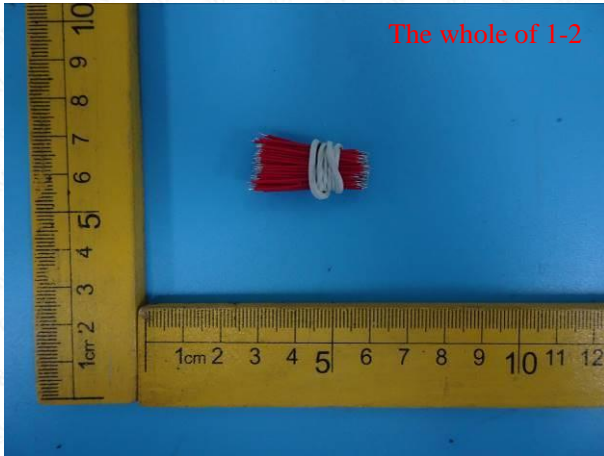
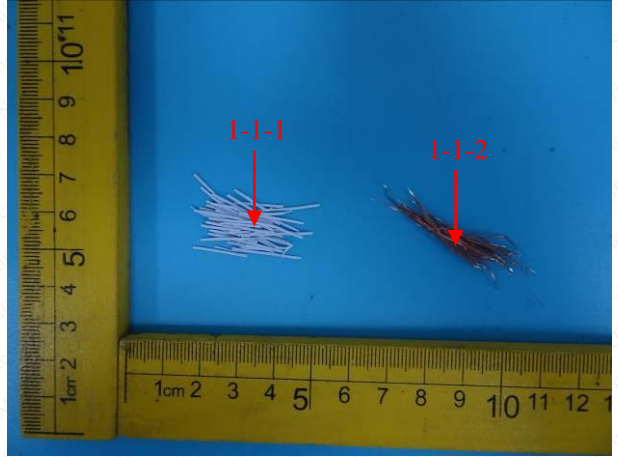
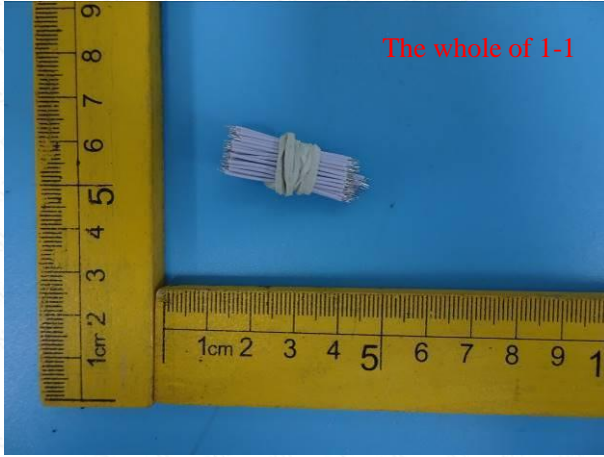
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Photo of the sample

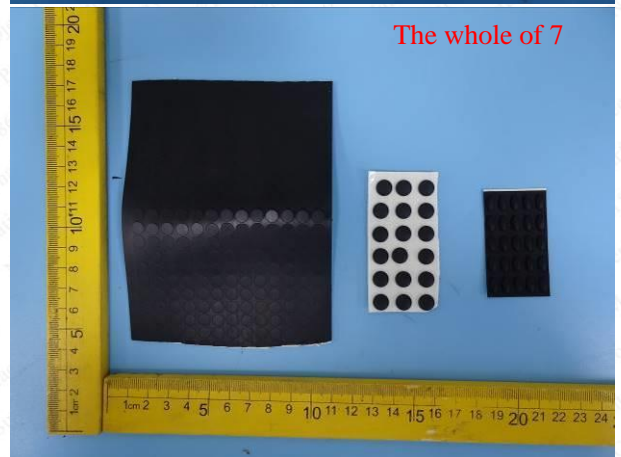
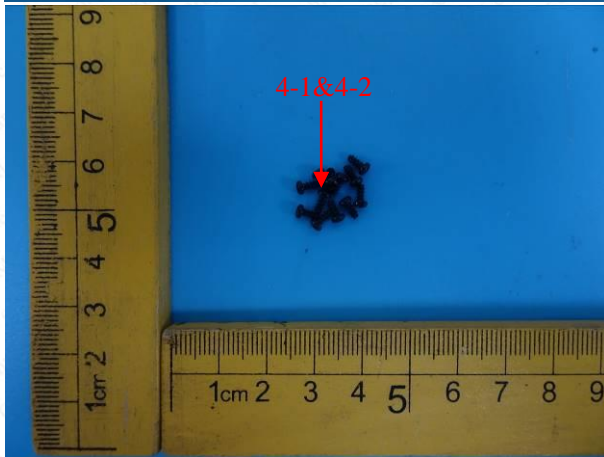
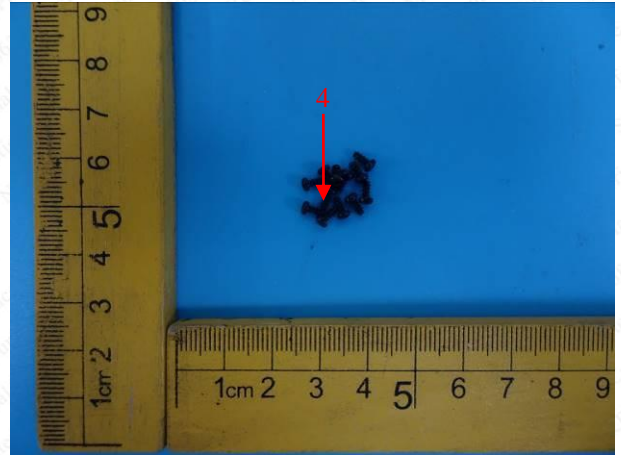
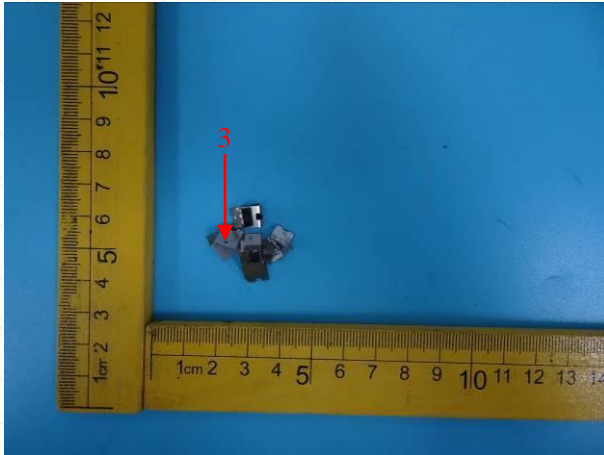


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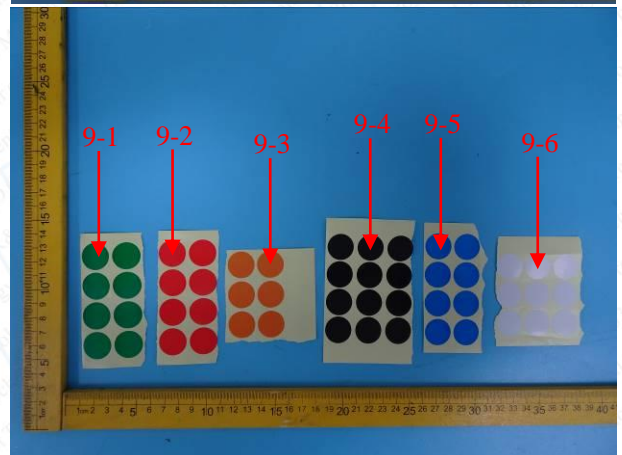
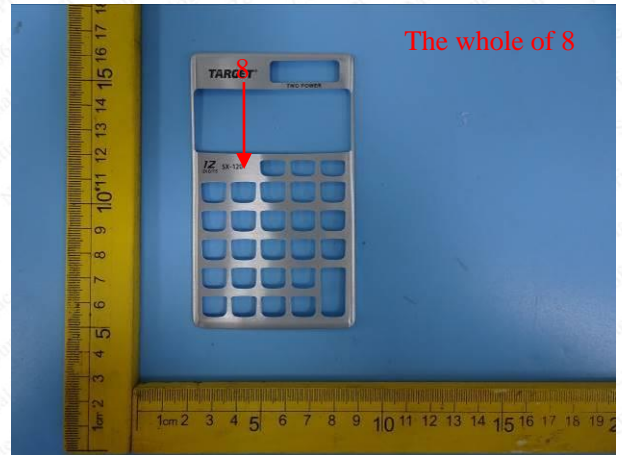
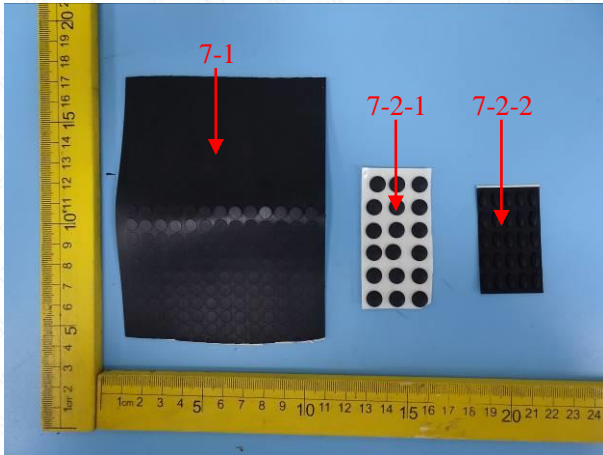


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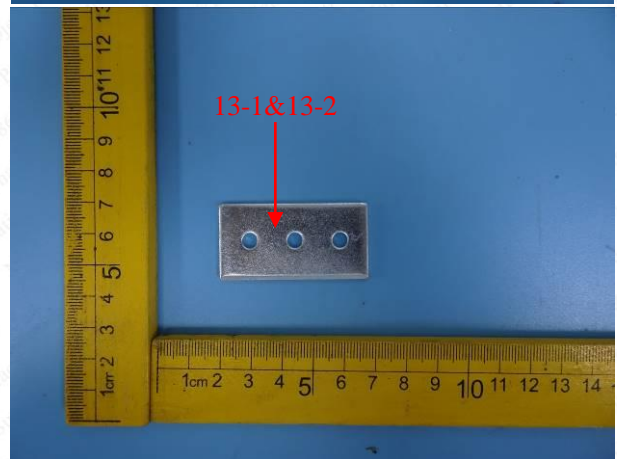
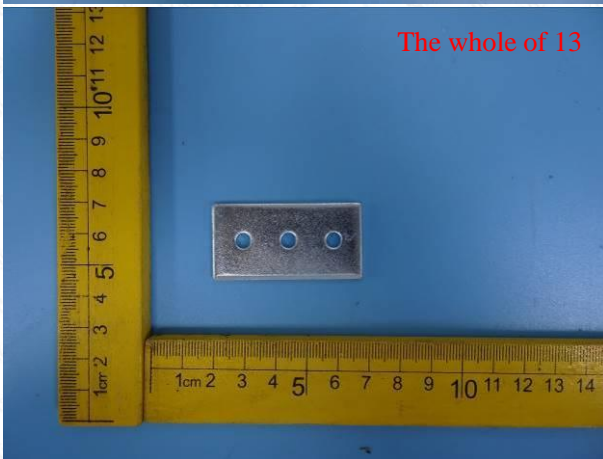
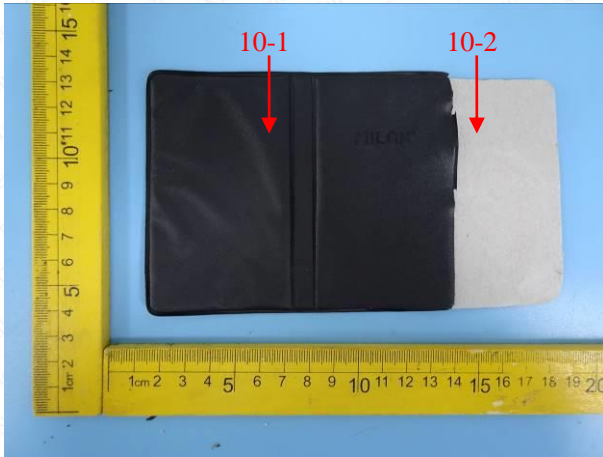


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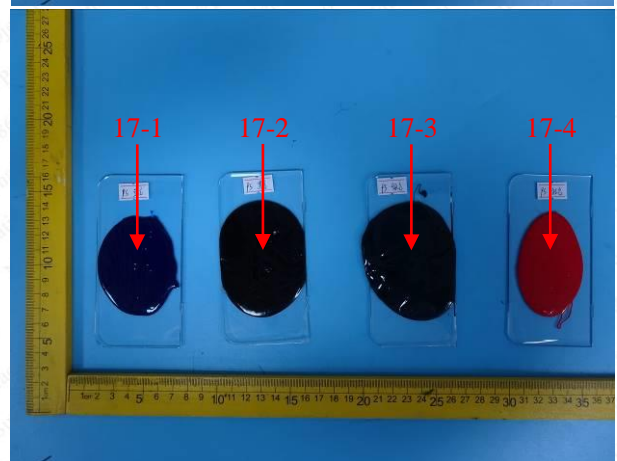
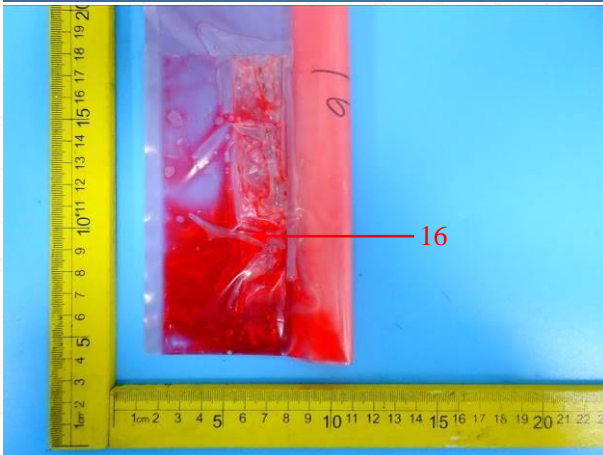


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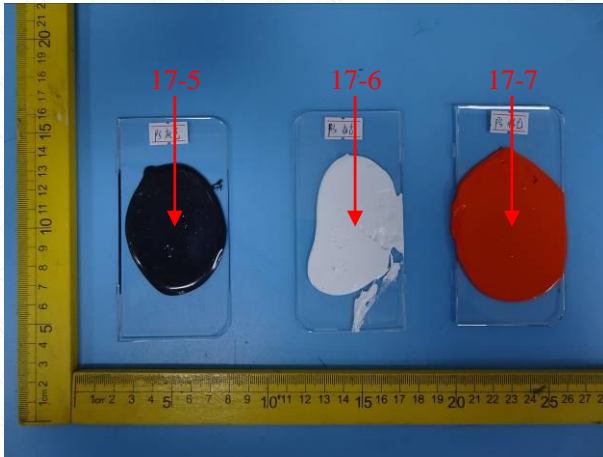


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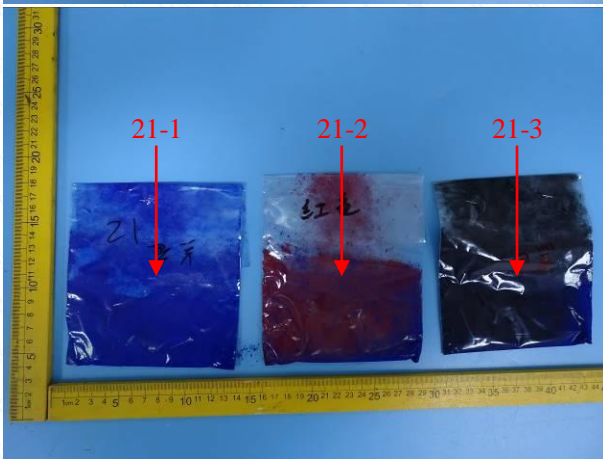
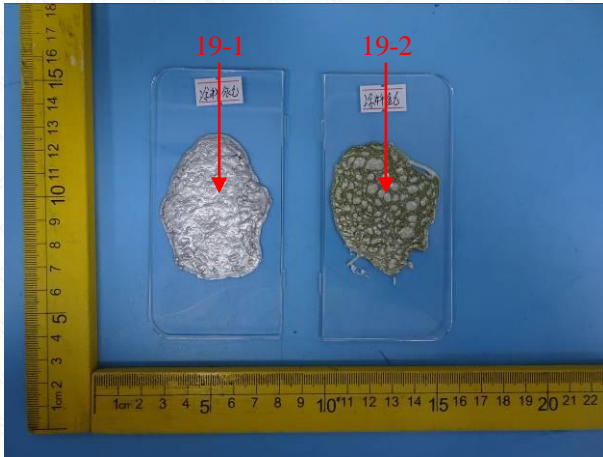


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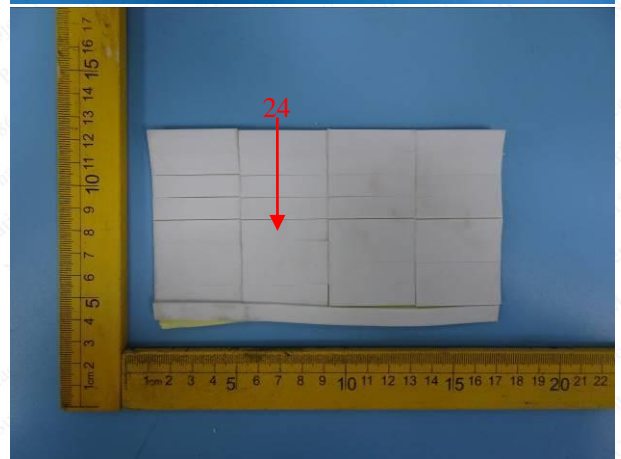
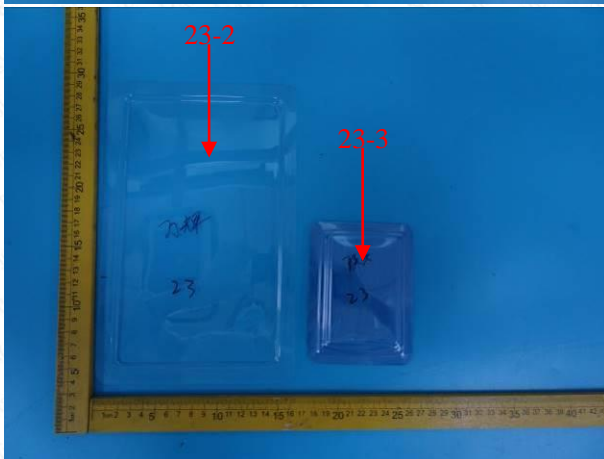
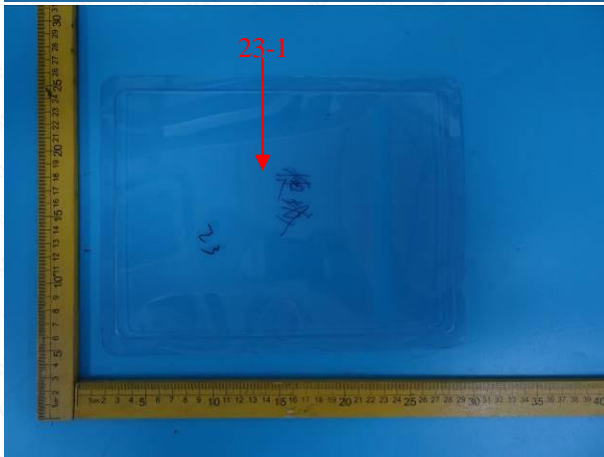
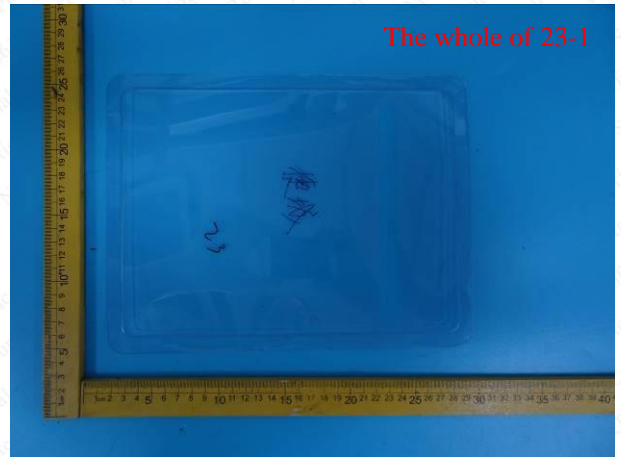
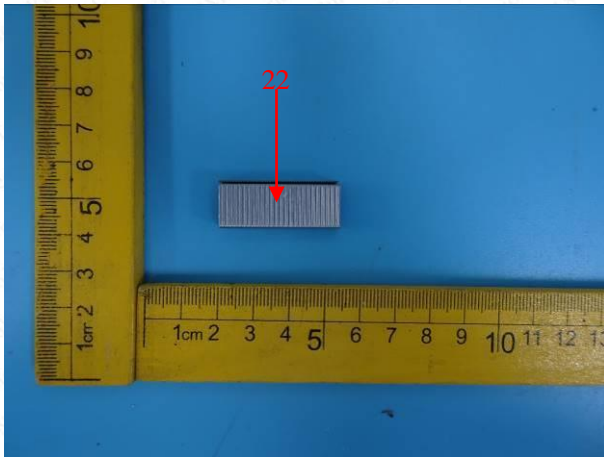


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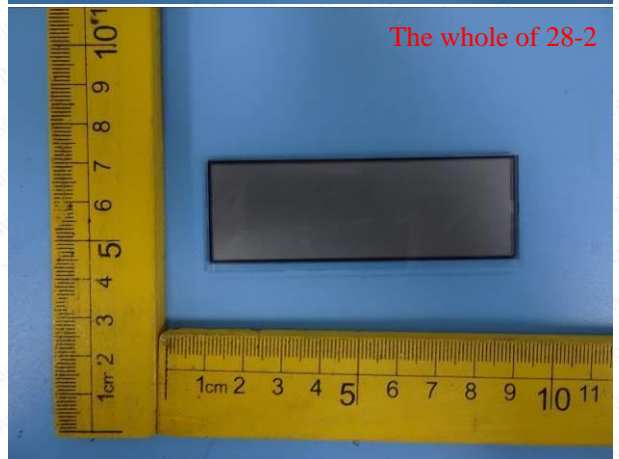
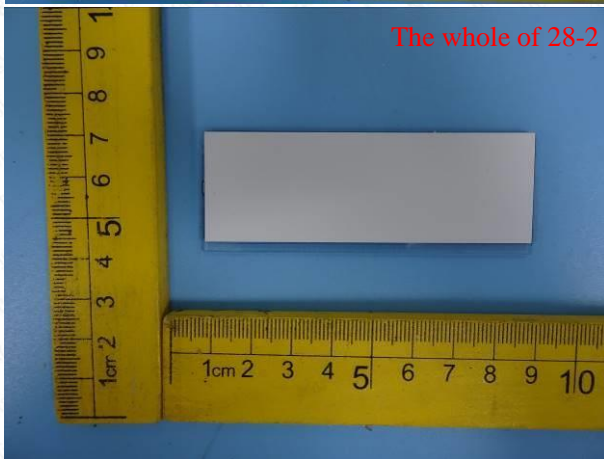
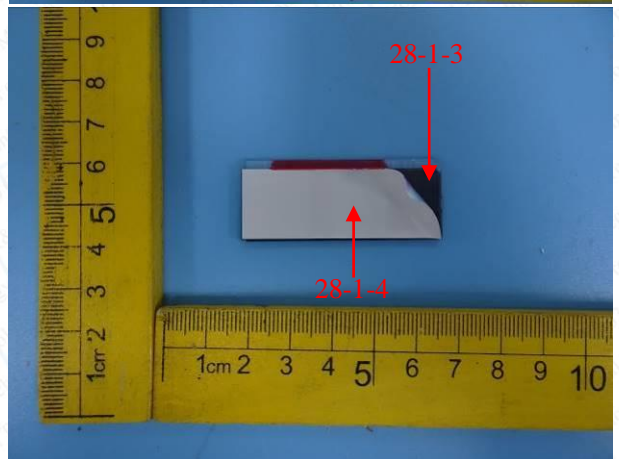
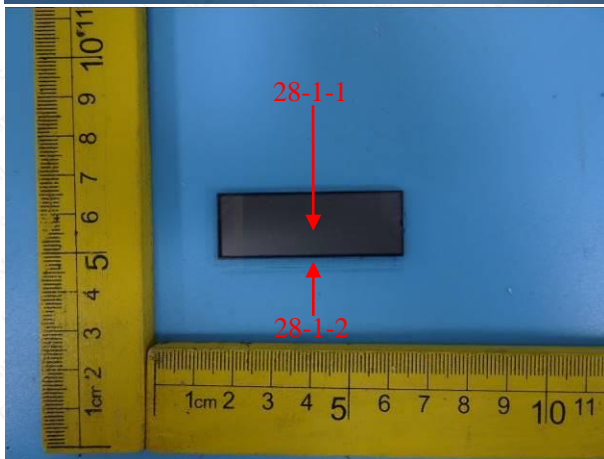
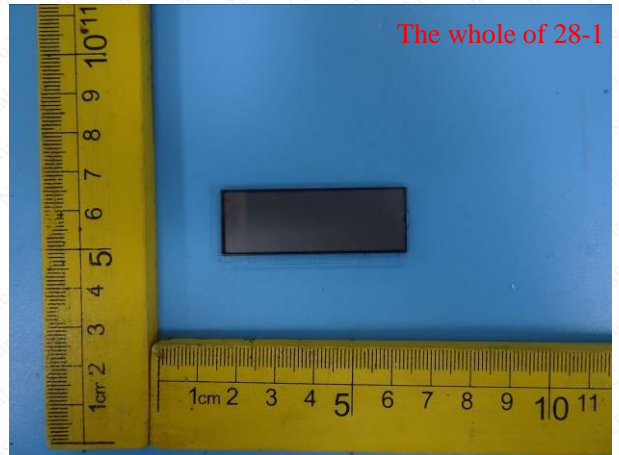
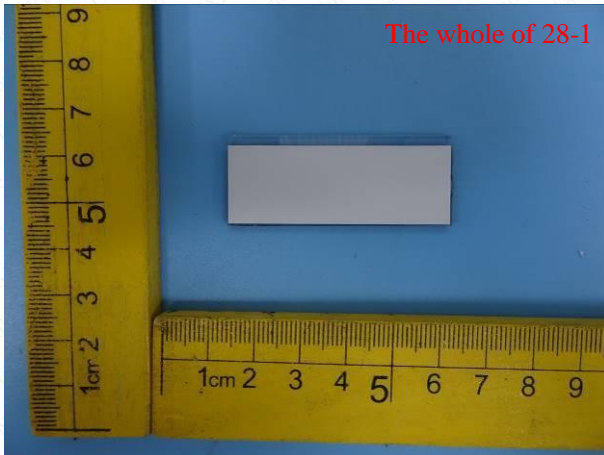


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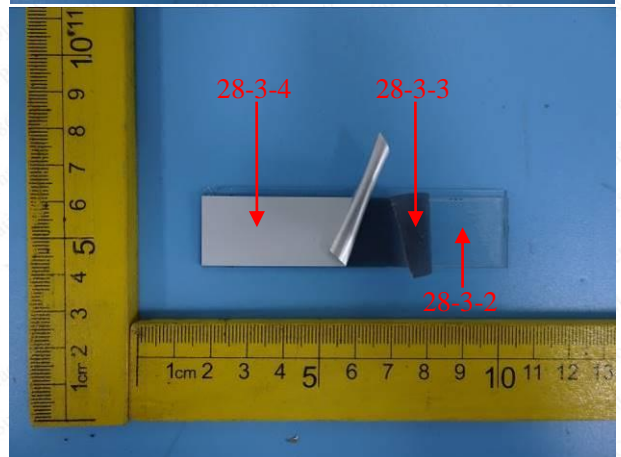
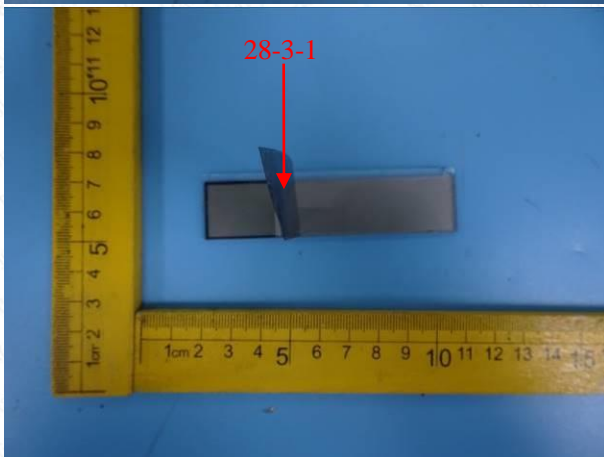
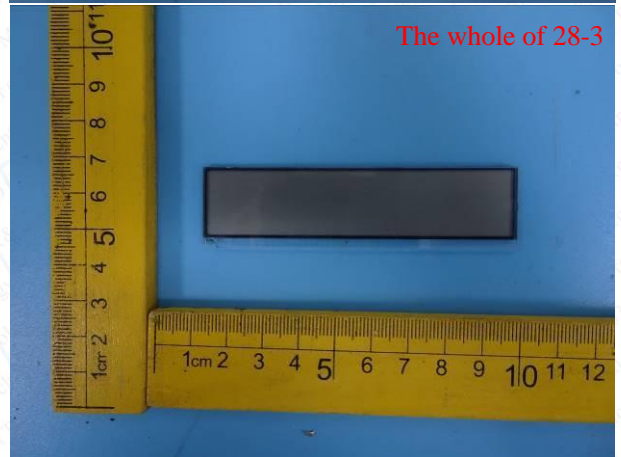
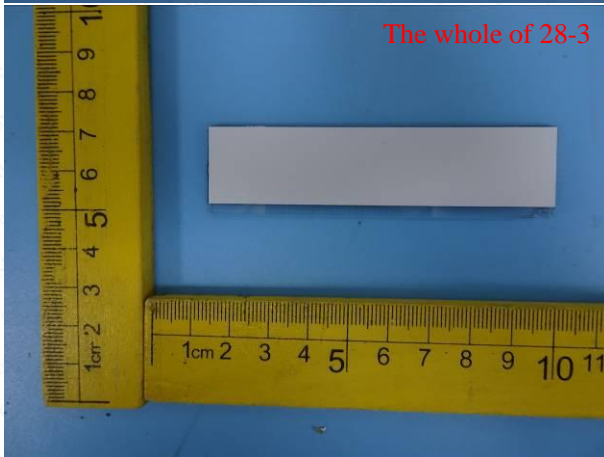
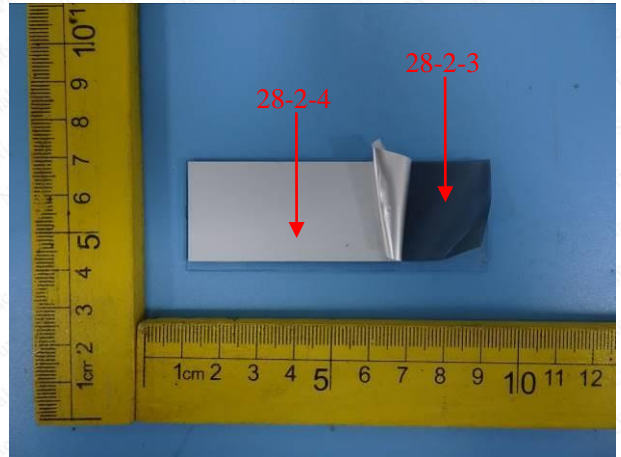
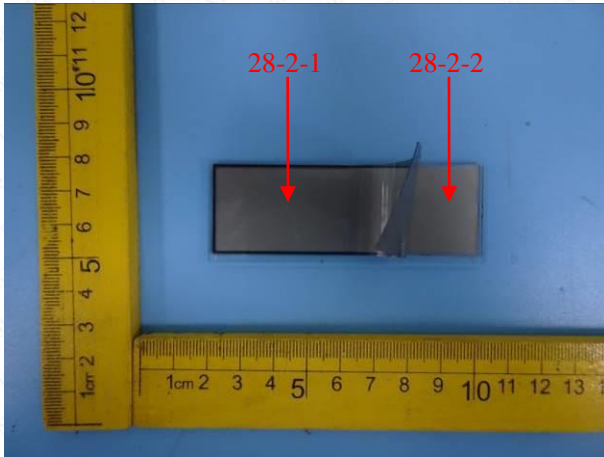


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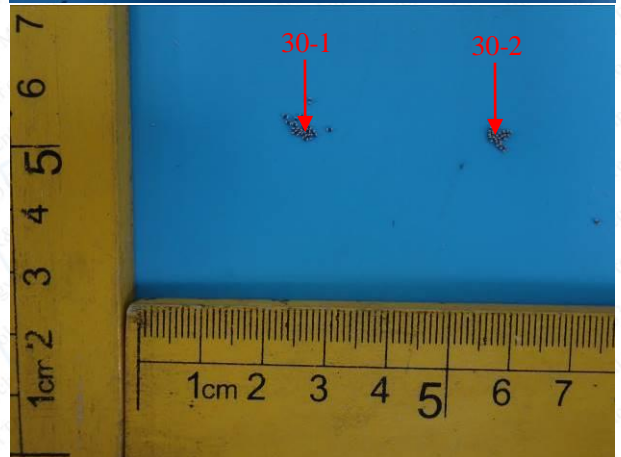
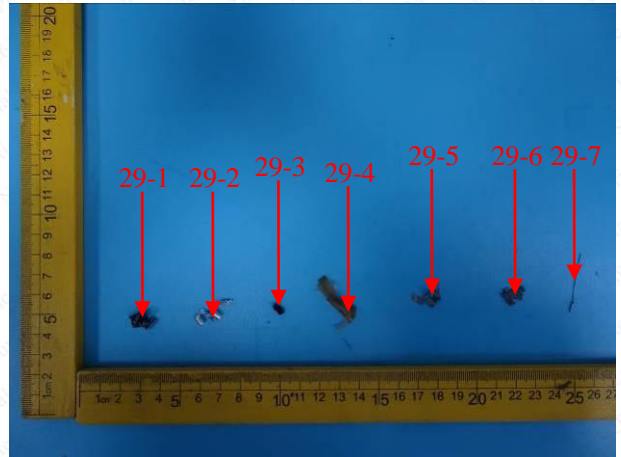
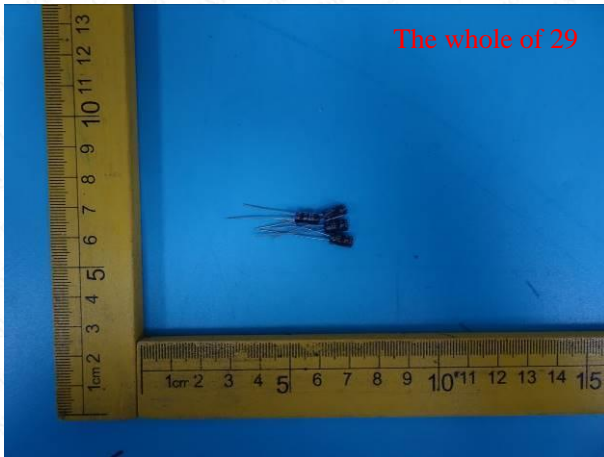


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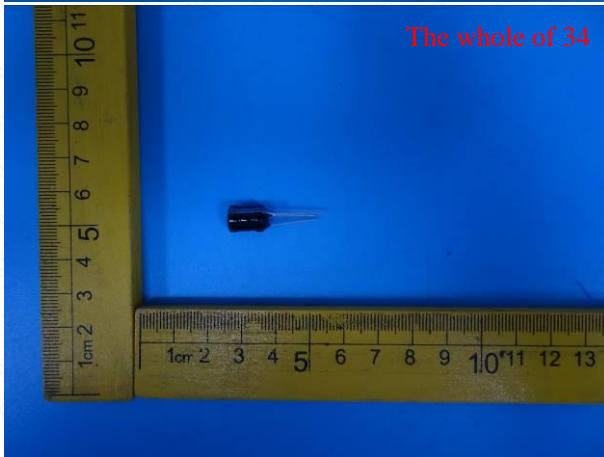
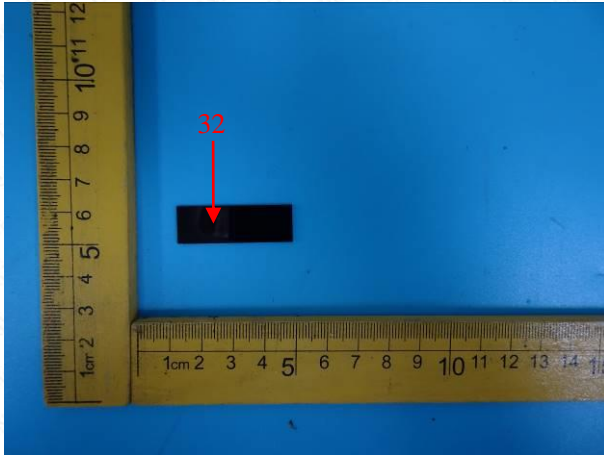


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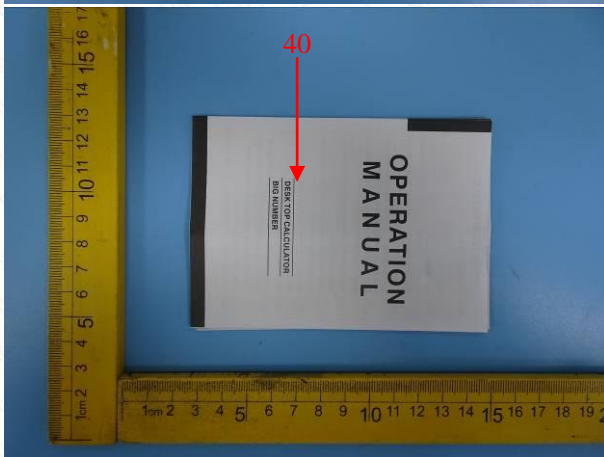
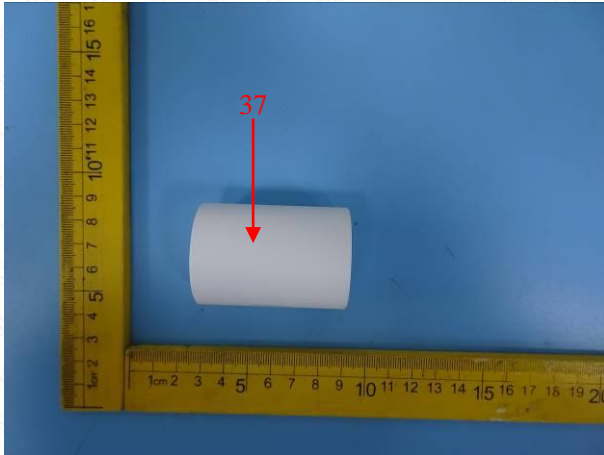


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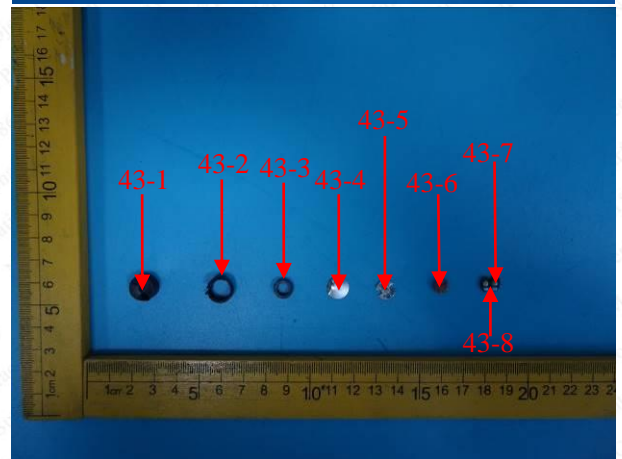
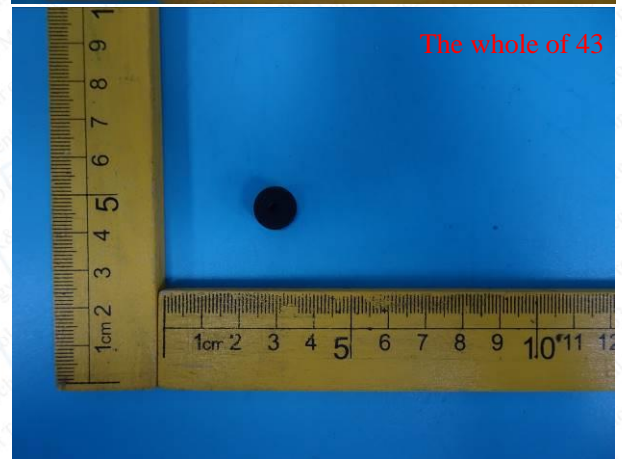
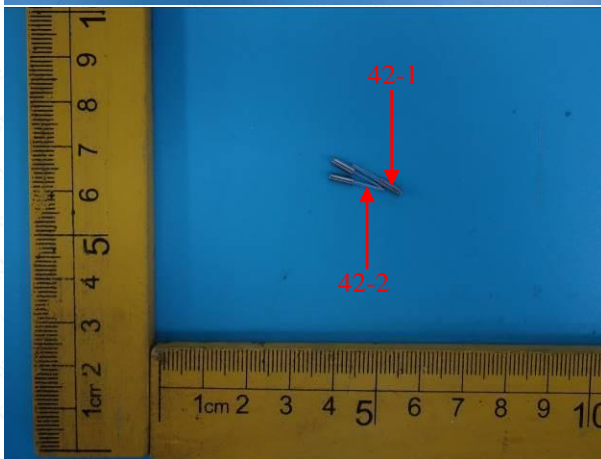
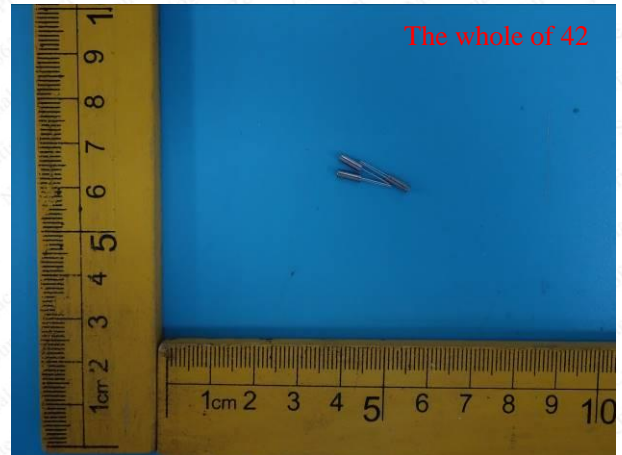
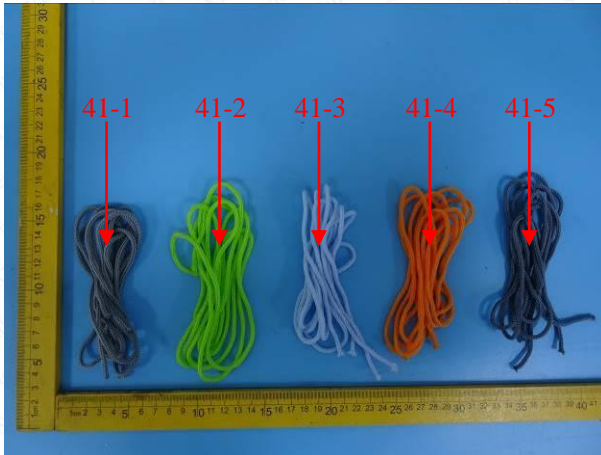


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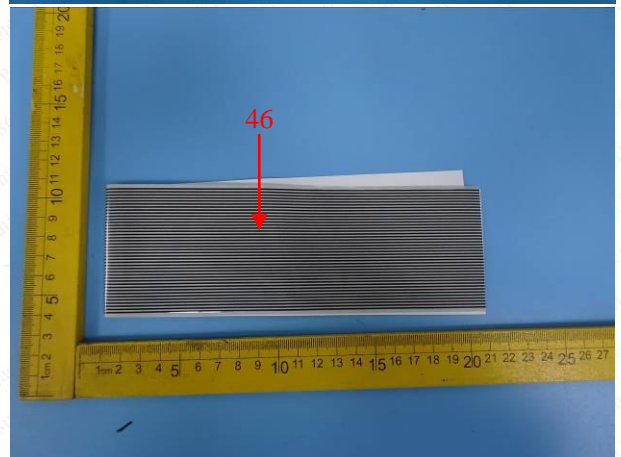
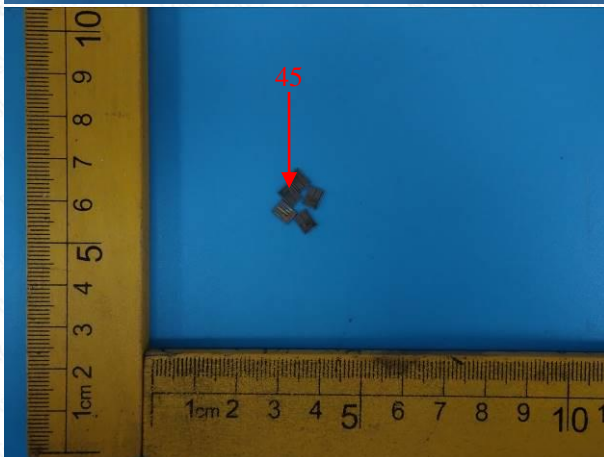
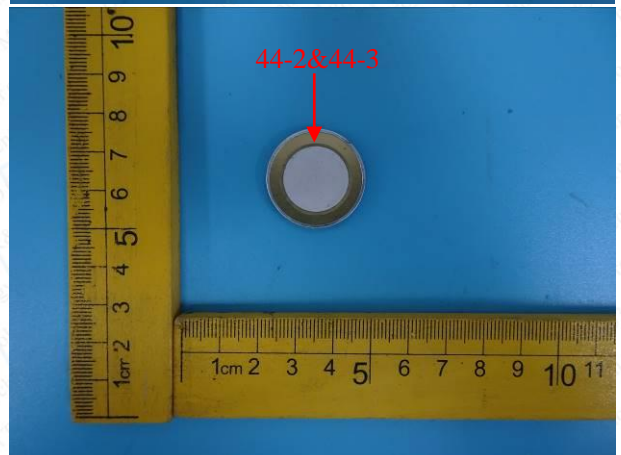


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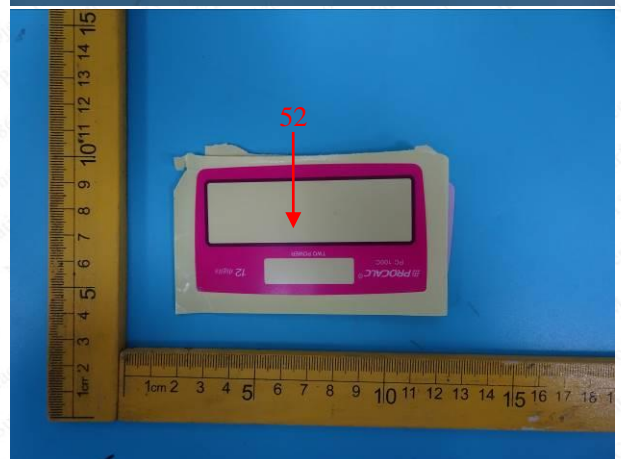
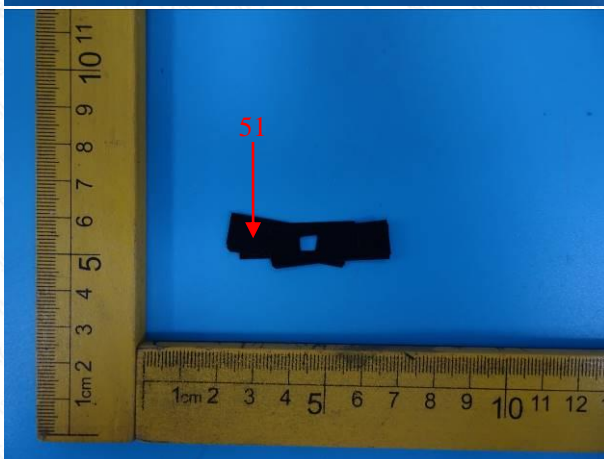
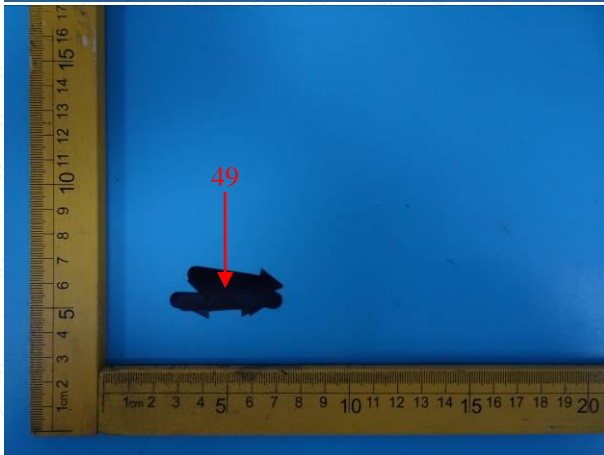
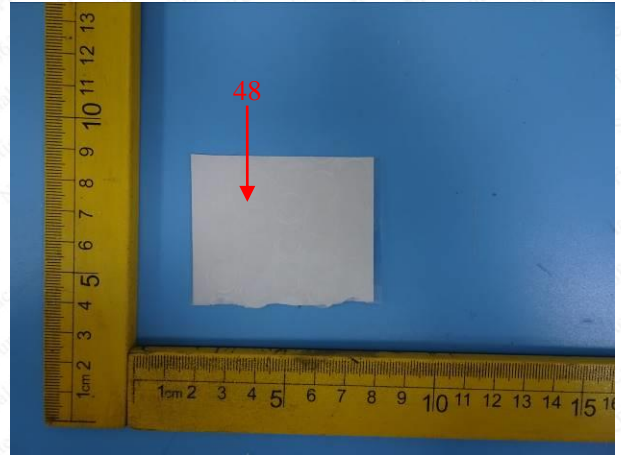


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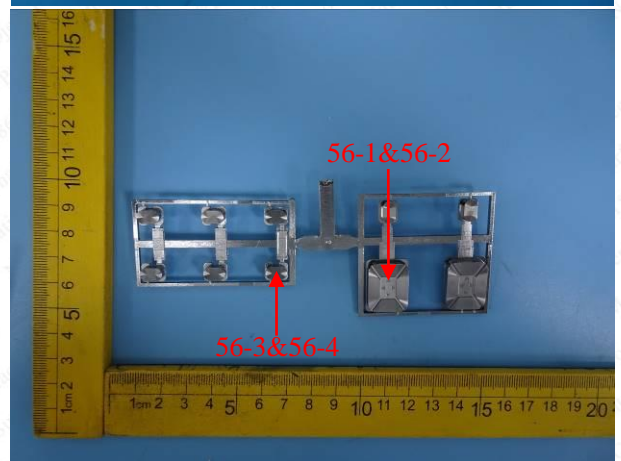
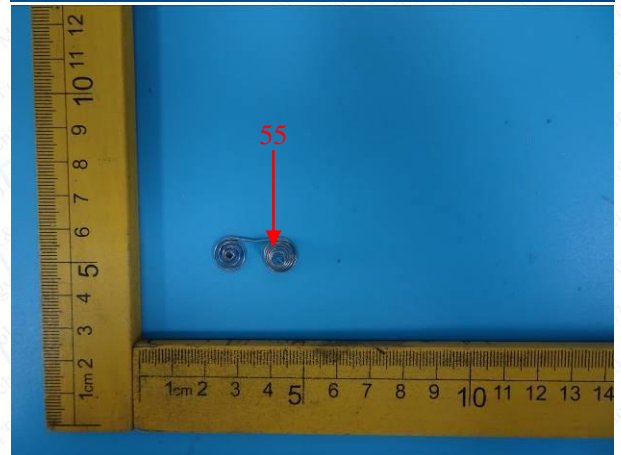
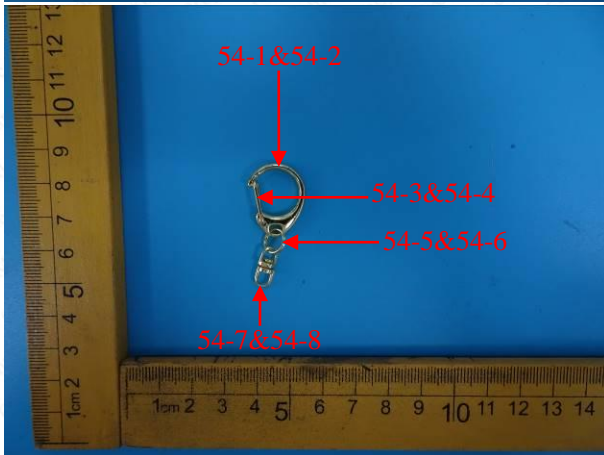
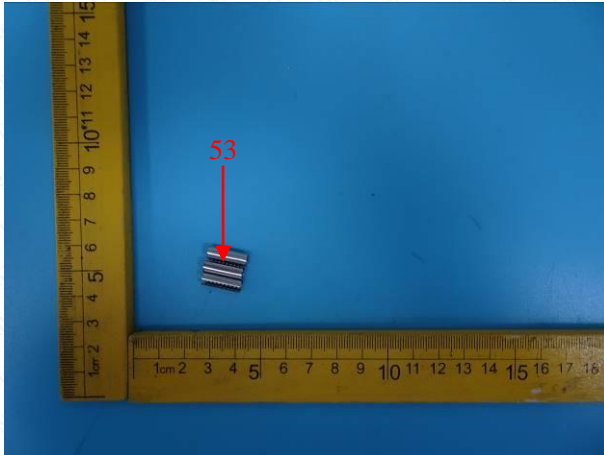


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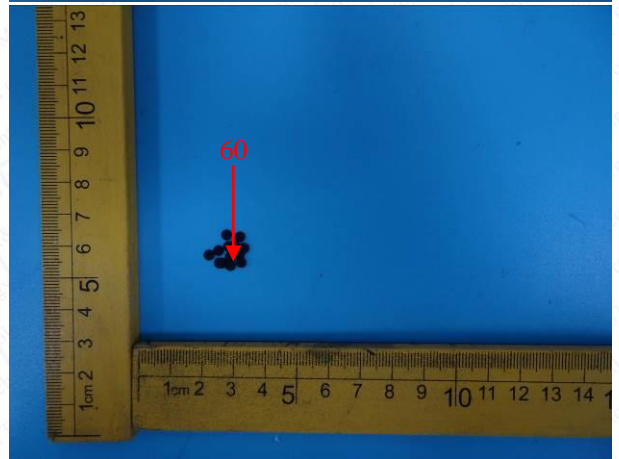
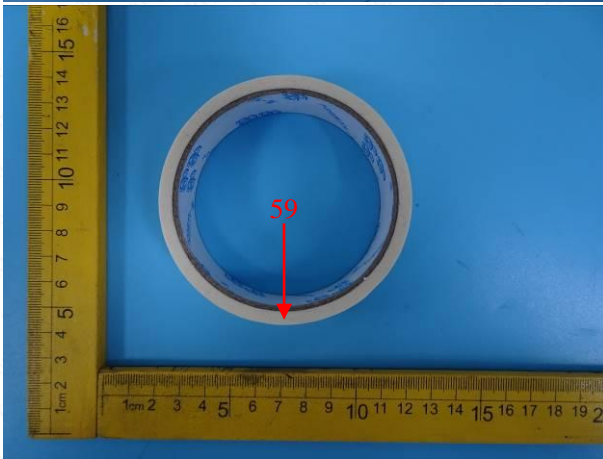
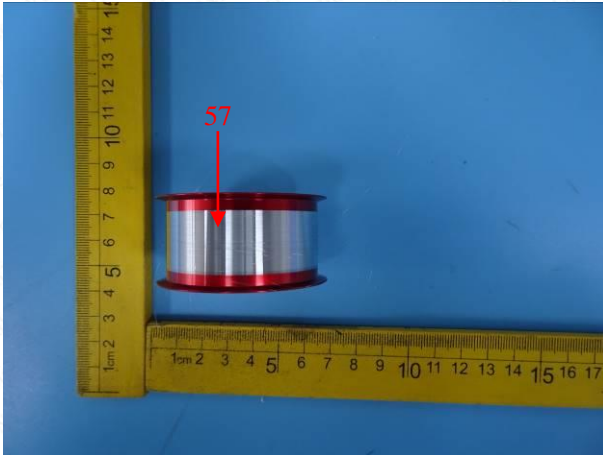


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