

Test Report (SVHC)

No. CANEC1911821803

Date: 16 Nov 2020

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ASTERA LED TECHNOLOGY GMBH
STAHLGRUBERRING 36,81829 MUNICH,GERMANY

The following sample(s) was/were submitted and identified on behalf of the clients as : Lightdrop

SGS Job No. : CP19-032730 - SZ

Model No. : AX3

Date of Sample Received : 20 Jun 2019

Testing Period : 20 Jun 2019 - 30 Sep 2020

Test Requested : As requested by client, SVHC screening is performed according to:
(i) Two hundred and one (201) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jul 16, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results : Please refer to next page(s).

Summary :

According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope and evaluation screening, the test results of SVHC are > 0.1% (w/w) in the articles of the submitted sample. See Sample ID 004, 048,054,055,056,061.	See remark 2 for obligation under REACH
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Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Violet Shi

Violet,Shi

Approved Signatory



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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
These lists are under evaluation by ECHA and may subject to change in the future.

2. REACH obligation:

2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a 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 in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits.

3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample :

Sample Description :

Component list :

Specimen No.	SGS Sample ID	Description	Group Table
SN1	CAN19-118218.001	Metal group(confirmation test)	001
SN2	CAN19-118218.002	Nonmetal group	002
SN3	CAN19-118218.003	Nonmetal group(confirmation test)	003
SN4	CAN19-118218.004	Battery	004
SN5	CAN19-118218.039	White surfaced metal handle	001-P1
SN6	CAN19-118218.040	White surfaced metal part	001-P2
SN7	CAN19-118218.041	Silvery metal ring	001-P3
SN8	CAN19-118218.042	Silvery metal clip	001-P4
SN9	CAN19-118218.043	Silvery metal ring	001-P5
SN10	CAN19-118218.044	Silvery metal sheet	001-P6
SN11	CAN19-118218.045	Silvery metal nut	001-P7
SN12	CAN19-118218.046	White surfaced metal part	001-P8
SN13	CAN19-118218.047	Silvery metal screw	001-P13
SN14	CAN19-118218.048	Golden metal part	001-P16



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SN15	CAN19-118218.049	Silvery metal wire	001-P23
SN16	CAN19-118218.050	Silvery metal sheet	001-P25
SN17	CAN19-118218.051	Silvery plated magnet	001-P32
SN18	CAN19-118218.052	Silvery metal screw	001-P33
SN19	CAN19-118218.053	Silvery metal part	001-P34
SN20	CAN19-118218.054	Silvery metal part	001-P39
SN21	CAN19-118218.055	Silvery metal pin	001-P40
SN22	CAN19-118218.056	Golden metal ring	001-P41
SN23	CAN19-118218.057	Silvery metal ring	001-P42
SN24	CAN19-118218.058	Silvery metal part	001-P54
SN25	CAN19-118218.059	White rubber ring	003-P10
SN26	CAN19-118218.060	Grey plastic (wire insulation) w/ wire	003-P17
SN27	CAN19-118218.061	Red plastic (wire insulation)	003-P24
SN28	CAN19-118218.062	Black plastic (heat shrinkable tube)	003-P35
SN29	CAN19-118218.063	Black plastic (wire insulation) w/ wire	003-P36
SN30	CAN19-118218.064	Red plastic (wire insulation) w/ wire	003-P37
SN31	CAN19-118218.065	Black adhesive sponge sheet	003-P43
SN32	CAN19-118218.066	Black plastic (wire insulation) w/ wire	003-P44
SN33	CAN19-118218.067	Red plastic (wire insulation) w/ wire	003-P45
SN34	CAN19-118218.068	Black plastic (wire insulation) w/ wire	003-P46
SN35	CAN19-118218.069	Blue plastic sheet	003-P47
SN36	CAN19-118218.070	Yellow translucent adhesive plastic sheet	003-P49
SN37	CAN19-118218.071	Green "PCB" w/ solder	003-P50
SN38	CAN19-118218.072	Red plastic (wire insulation) w/ wire	003-P51
SN39	CAN19-118218.073	Purple plastic sheet w/ black printing	003-P52
SN40	CAN19-118218.074	Colorless translucent plastic sheet	003-P57
SN41	CAN19-118218.075	Colorless translucent plastic sheet	003-P58



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SGS Sample ID	Photo No.	Material Description
001	P1	White surfaced metal handle
001	P2	White surfaced metal part
001	P3	Silvery metal ring
001	P4	Silvery metal clip
001	P5	Silvery metal ring
001	P6	Silvery metal sheet
001	P7	Silvery metal nut
001	P8	White surfaced metal part
001	P13	Silvery metal screw
001	P16	Golden metal part
001	P23	Silvery metal wire
001	P25	Silvery metal sheet
001	P32	Silvery plated magnet
001	P33	Silvery metal screw
001	P34	Silvery metal part
001	P39	Silvery metal part
001	P40	Silvery metal pin
001	P41	Golden metal ring
001	P42	Silvery metal ring
001	P54	Silvery metal part
002	P9	White plastic frame
002	P11	Colorless transparent plastic cover
002	P12	White plastic sheet
002	P14	Green plastic sheet



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SGS Sample ID	Photo No.	Material Description
002	P15	Colorless translucent plastic part
002	P18	Black body
002	P19	Dk-grey body
002	P20	Black body w/ brown printing
002	P21	Green "PCB" w/ solder
002	P22	Grey plastic part
002	P26	Dk-grey body
002	P27	Beige plastic part
002	P28	Black "PCB" w/ solder
002	P29	White plastic shell
002	P30	White plastic part
002	P31	Black plastic sheet w/ white printing
002	P38	White plastic part
002	P48	Red adhesive paper sheet
002	P55	White adhesive rubber part
002	P56	Black rubber part
003	P10	White rubber ring
003	P17	Grey plastic (wire insulation) w/ wire
003	P24	Red plastic (wire insulation)
003	P35	Black plastic (heat shrinkable tube)
003	P36	Black plastic (wire insulation) w/ wire
003	P37	Red plastic (wire insulation) w/ wire
003	P43	Black adhesive sponge sheet
003	P44	Black plastic (wire insulation) w/ wire



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SGS Sample ID	Photo No.	Material Description
003	P45	Red plastic (wire insulation) w/ wire
003	P46	Black plastic (wire insulation) w/ wire
003	P47	Blue plastic sheet
003	P49	Yellow translucent adhesive plastic sheet
003	P50	Green "PCB" w/ solder
003	P51	Red plastic (wire insulation) w/ wire
003	P52	Purple plastic sheet w/ black printing
003	P57	Colorless translucent plastic sheet
003	P58	Colorless translucent plastic sheet
004	P53	Battery

Test Method :

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	see below confirmation test result	0.010
XIX	Lead*	7439-92-1	see below confirmation test result	0.010
-	Other tested SVHC in candidate list	-	ND	-

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

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
VIII	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.025	0.010
VIII	Dioxobis(stearato)trilead*	12578-12-0	0.037	0.010
VIII	Fatty acids, C16-18, lead salts*	91031-62-8	0.071	0.010
VIII	Lead cyanamidate*	20837-86-9	0.023	0.010
VIII	Lead dinitrate*	10099-74-8	0.030	0.010
VIII	Lead monoxide*	1317-36-8	0.020	0.010
VIII	Lead oxide sulfate*	12036-76-9	0.024	0.010
VIII	Lead tetroxide (orange lead)*	1314-41-6	0.021	0.010
VIII	Lead titanium trioxide*	12060-00-3	0.028	0.010
VIII	Lead titanium zirconium oxide*	12626-81-2	0.032	0.010
VIII	Pentalead tetraoxide sulphate*	12065-90-6	0.022	0.010
VIII	Pyrochlore, antimony lead yellow*	8012-00-8	0.035	0.010
VIII	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.024	0.010
VIII	Tetralead trioxide sulphate*	12202-17-4	0.022	0.010
VIII	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.024	0.010
VIII	Trilead dioxide phosphonate*	12141-20-7	0.022	0.010
X	Lead di(acetate)*	301-04-2	0.030	0.010
XIX	Lead*	7439-92-1	0.019	0.010
-	Other tested SVHC in candidate list	-	ND	-

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



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

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	see below confirmation test result	0.100
I	Dibutyl phthalate (DBP)	84-74-2	see below confirmation test result	0.100
VIII	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.022	0.010
VIII	Dioxobis(stearato)trilead*	12578-12-0	0.032	0.010
VIII	Fatty acids, C16-18, lead salts*	91031-62-8	0.062	0.010
VIII	Lead cyanamidate*	20837-86-9	0.020	0.010
VIII	Lead dinitrate*	10099-74-8	0.026	0.010
VIII	Lead monoxide*	1317-36-8	0.018	0.010
VIII	Lead oxide sulfate*	12036-76-9	0.021	0.010
VIII	Lead tetroxide (orange lead)*	1314-41-6	0.018	0.010
VIII	Lead titanium trioxide*	12060-00-3	0.024	0.010
VIII	Lead titanium zirconium oxide*	12626-81-2	0.028	0.010
VIII	Pentalead tetraoxide sulphate*	12065-90-6	0.019	0.010
VIII	Pyrochlore, antimony lead yellow*	8012-00-8	0.031	0.010
VIII	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.021	0.010
VIII	Tetralead trioxide sulphate*	12202-17-4	0.019	0.010
VIII	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.021	0.010
VIII	Trilead dioxide phosphonate*	12141-20-7	0.019	0.010
X	Lead di(acetate)*	301-04-2	0.026	0.010
XIX	Lead*	7439-92-1	0.016	0.010
-	Other tested SVHC in candidate list	-	ND	-

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

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
I	Cobalt dichloride*	7646-79-9	5.953	0.010
III	Boric acid*	-	0.259	0.010



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

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
III	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.210	0.010
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.210	0.010
IV	Cobalt(II) carbonate*	513-79-1	5.453	0.010
IV	Cobalt(II) diacetate*	71-48-7	8.116	0.010
IV	Cobalt(II) dinitrate*	10141-05-6	8.387	0.010
IV	Cobalt(II) sulphate*	10124-43-3	7.106	0.010
VII	Diboron trioxide*	1303-86-2	0.146	0.010
XIX	Disodium octaborate*	12008-41-2	0.178	0.010
-	Other tested SVHC in candidate list	-	ND	-

Confirmation Test Result:

Batch	Substance Name	CAS No.	039 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	040 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	041 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	042 Concentration (%)	RL (%)
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Confirmation Test Result:

Batch	Substance Name	CAS No.	042 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	043 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	044 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	045 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	046 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	047 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:



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Confirmation Test Result:

Batch	Substance Name	CAS No.	048 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.010	0.005
XIX	Lead*	7439-92-1	2.711	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	049 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	050 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	051 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	052 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	053 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	0.040	0.005

Confirmation Test Result:



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Confirmation Test Result:

Batch	Substance Name	CAS No.	054 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.009	0.005
XIX	Lead*	7439-92-1	2.138	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	055 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.012	0.005
XIX	Lead*	7439-92-1	3.061	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	056 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.009	0.005
XIX	Lead*	7439-92-1	2.373	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	057 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	058 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005

Confirmation Test Result:

Batch	Substance Name	CAS No.	059 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:



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Confirmation Test Result:

Batch	Substance Name	CAS No.	060 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	061 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	0.168	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	062 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	063 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	064 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	065 Concentration (%)	RL (%)



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Confirmation Test Result:

Batch	Substance Name	CAS No.	065 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	066 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	067 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	068 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	069 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	070 Concentration (%)	RL (%)



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Confirmation Test Result:

Batch	Substance Name	CAS No.	070 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	071 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	072 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	073 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	074 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050

Confirmation Test Result:

Batch	Substance Name	CAS No.	075 Concentration (%)	RL (%)



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Confirmation Test Result:

Batch	Substance Name	CAS No.	075 Concentration (%)	RL (%)
I	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.050
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050



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Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported.
Please refer to Appendix for the full list of tested SVHC.
 2. RL = Reporting Limit. All RL are based on homogenous material. ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
 3. * The test result is based on the calculation of selected element(s) and to the worst-case scenario.
 - ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
- For detail information, please refer to the SGS REACH website:
<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>
4. RL = 0.01% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.001%, boron RL=0.005% (only for Lead bis(tetrafluoroborate)), chromium (VI) RL=0.005% (only for Pentazinc chromate octahydroxide).
 5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.
 6. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) $\geq 0.1\%$ (w/w).
 7. Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.
 8. In consideration of the analysis requirement and the limit of sample volume, the screening test for the article is based on components / material enough to test.



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Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.100
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.100
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.100
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.100
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.100
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.100
I	8	Cobalt dichloride*	7646-79-9	0.010
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.010
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.100
I	13	Lead hydrogen arsenate*	7784-40-9	0.010
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.010
I	15	Triethyl arsenate*	15606-95-8	0.010
II	16	2,4-Dinitrotoluene	121-14-2	0.100
II	17	Acrylamide	79-06-1	0.100
II	18	Anthracene oil**	90640-80-5	0.100
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.100
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.100



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Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.100
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.100
II	23	Diisobutyl phthalate	84-69-5	0.100
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.010
II	25	Lead chromate*	7758-97-6	0.010
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.010
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.100
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.100
III	29	Ammonium dichromate*	7789-09-5	0.010
III	30	Boric acid*	-	0.010
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.010
III	32	Potassium chromate*	7789-00-6	0.010
III	33	Potassium dichromate*	7778-50-9	0.010
III	34	Sodium chromate*	7775-11-3	0.010
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.010
III	36	Trichloroethylene	79-01-6	0.100
IV	37	2-Ethoxyethanol	110-80-5	0.100
IV	38	2-Methoxyethanol	109-86-4	0.100
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.010
IV	41	Cobalt(II) carbonate*	513-79-1	0.010
IV	42	Cobalt(II) diacetate*	71-48-7	0.010
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.010
IV	44	Cobalt(II) sulphate*	10124-43-3	0.010
V	45	1,2,3-trichloropropane	96-18-4	0.100
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.100
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.100
V	48	1-methyl-2-pyrrolidone	872-50-4	0.100
V	49	2-ethoxyethyl acetate	111-15-9	0.100
V	50	Hydrazine	7803-57-8, 302-01-2	0.100
V	51	Strontium chromate*	7789-06-2	0.010
VI	52	1,2-Dichloroethane	107-06-2	0.100
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.100
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.100
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.100
VI	56	Aluminosilicate Refractory Ceramic Fibres *	-	0.010
VI	57	Arsenic acid*	7778-39-4	0.010
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.100
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.100



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Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.010
VI	61	Dichromium tris(chromate) *	24613-89-6	0.010
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.100
VI	63	Lead diazide, Lead azide*	13424-46-9	0.010
VI	64	Lead dipicrate*	6477-64-1	0.010
VI	65	Lead styphnate*	15245-44-0	0.010
VI	66	N,N-dimethylacetamide	127-19-5	0.100
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.010
VI	68	Phenolphthalein	77-09-8	0.100
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.010
VI	70	Trilead diarsenate*	3687-31-8	0.010
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.010
VII	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	0.100
VII	73	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.100
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.100
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.100
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.100
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.100
VII	78	Diboron trioxide*	1303-86-2	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.100
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.010
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.100
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.100
VII	83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.100
VII	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	0.100
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.010
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.100
VIII	87	1,2-Diethoxyethane	629-14-1	0.100
VIII	88	1-Bromopropane	106-94-5	0.100
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.100
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.100
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.100
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.100
VIII	93	4-Aminoazobenzene	60-09-3	0.100
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.100
VIII	95	4-Nonylphenol, branched and linear	-	0.100
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.100
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.100
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.100
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.100
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.100
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.100
VIII	103	Diethyl sulphate	64-67-5	0.100
VIII	104	Diisopentylphthalate	605-50-5	0.100
VIII	105	Dimethyl sulphate	77-78-1	0.100
VIII	106	Dinoseb	88-85-7	0.100
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.010
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.010
VIII	109	Furan	110-00-9	0.100
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.100
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.100
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.100
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.010
VIII	114	Lead cyanamidate*	20837-86-9	0.010
VIII	115	Lead dinitrate*	10099-74-8	0.010
VIII	116	Lead monoxide*	1317-36-8	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.010
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.010
VIII	119	Lead titanium trioxide*	12060-00-3	0.010
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.010
VIII	121	Methoxyacetic acid	625-45-6	0.100
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.100
VIII	123	N,N-dimethylformamide	68-12-2	0.100
VIII	124	N-Methylacetamide	79-16-3	0.100
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.100
VIII	126	o-Aminoazotoluene	97-56-3	0.100
VIII	127	o-Toluidine	95-53-4	0.100
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.100
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.010
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.010
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.010
VIII	132	Silicic acid, lead salt*	11120-22-2	0.010
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.010
VIII	134	Tetraethyllead*	78-00-2	0.010
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.010
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.100
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.010



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.010
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.100
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.100
IX	141	Cadmium oxide*	1306-19-0	0.010
IX	142	Cadmium*	7440-43-9	0.010
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.100
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.100
X	145	Cadmium sulphide*	1306-23-6	0.010
X	146	Diethyl phthalate	84-75-3	0.100
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.100
X	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	0.100
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.100
X	150	Lead di(acetate)*	301-04-2	0.010
X	151	Triethyl phosphate	25155-23-1	0.100
XI	152	1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear	68515-50-4	0.100
XI	153	Cadmium chloride*	10108-64-2	0.010
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.010
XI	155	Sodium peroxometaborate*	7632-04-4	0.010



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Test Report (SVHC)

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Date: 16 Nov 2020

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.100
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.100
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	0.100
XII	159	Cadmium fluoride*	7790-79-6	0.010
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.010
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 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 & MOTE)	-	0.100
XIII	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	-	0.100
XIII	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]	-	0.100
XIV	164	1,3-propanesultone	1120-71-4	0.100
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.100
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.100
XIV	167	Nitrobenzene	98-95-3	0.100
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.100
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.100



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.100
XVI	171	4-Heptylphenol, branched and linear	-	0.100
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.100
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.100
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.100
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.100
XVIII	176	Benz[a]anthracene	56-55-3	0.100
XVIII	177	Cadmium nitrate*	10325-94-7	0.010
XVIII	178	Cadmium carbonate*	513-78-0	0.010
XVIII	179	Cadmium hydroxide*	21041-95-2	0.010
XVIII	180	Chrysene	218-01-9	0.100
XVIII	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]	-	0.100
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.100
XIX	183	Benzo[ghi]perylene	191-24-2	0.100
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.100
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.100
XIX	186	Disodium octaborate*	12008-41-2	0.010
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.100



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	188	Ethylenediamine	107-15-3	0.100
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.100
XIX	191	Terphenyl hydrogenated	61788-32-7	0.100
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.100
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.100
XX	194	Benzo[k]fluoranthene	207-08-9	0.100
XX	195	Fluoranthene	206-44-0	0.100
XX	196	Phenanthrene	85-01-8	0.100
XX	197	Pyrene	129-00-0	0.100
XXI	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)	-	0.100
XXI	199	2-methoxyethyl acetate	110-49-6	0.100
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.100
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.100



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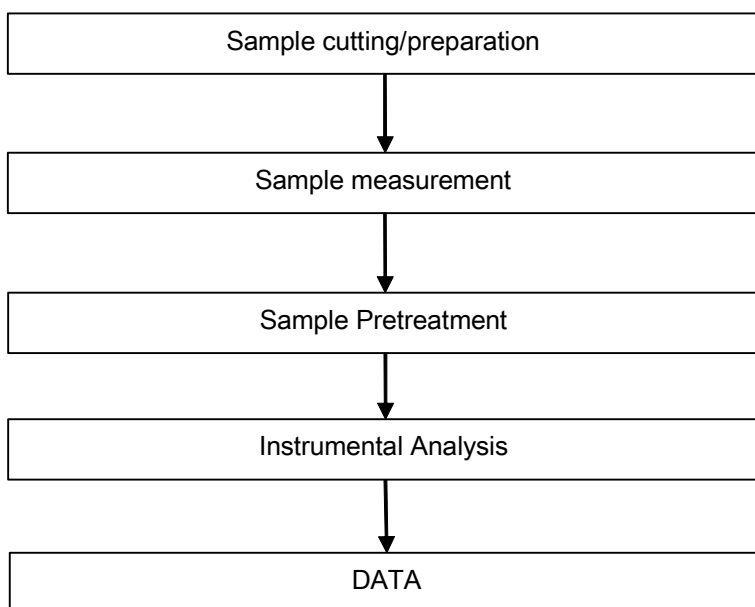
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SVHC Testing Flow Chart



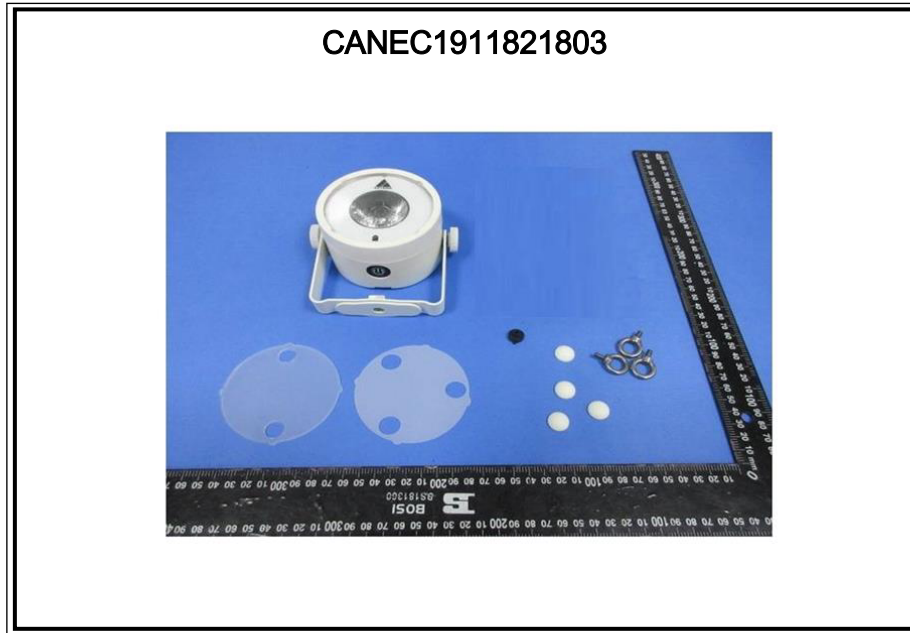
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Sample photo:



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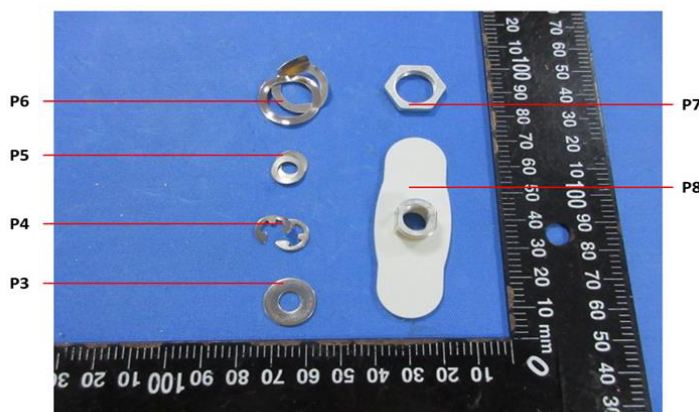
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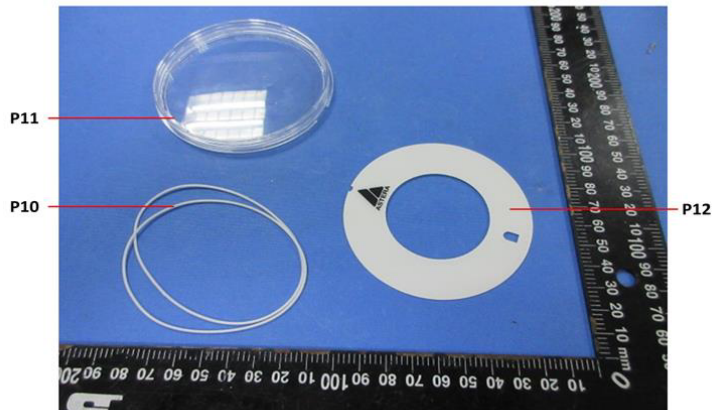
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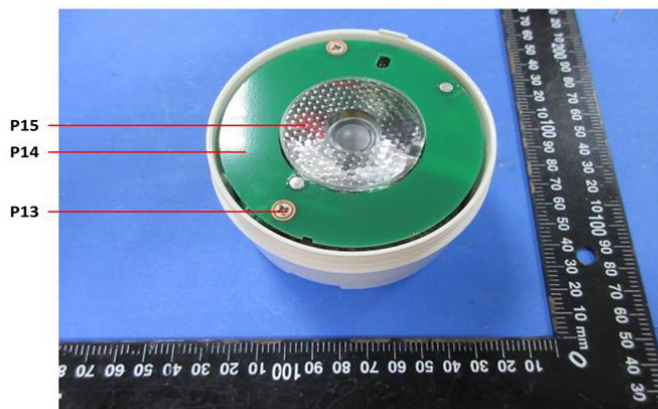
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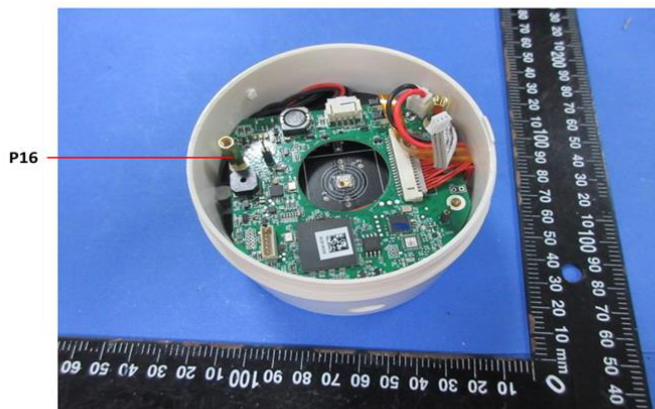
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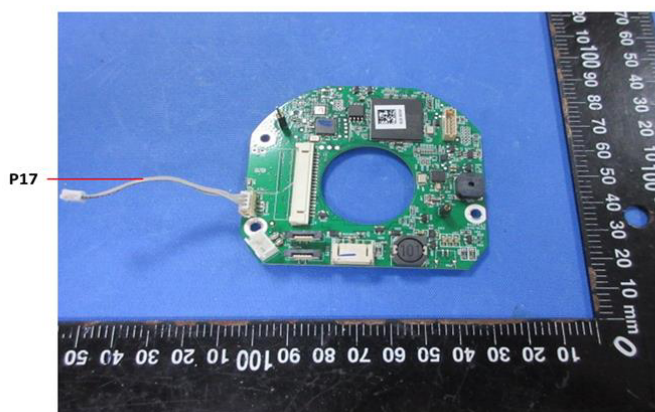
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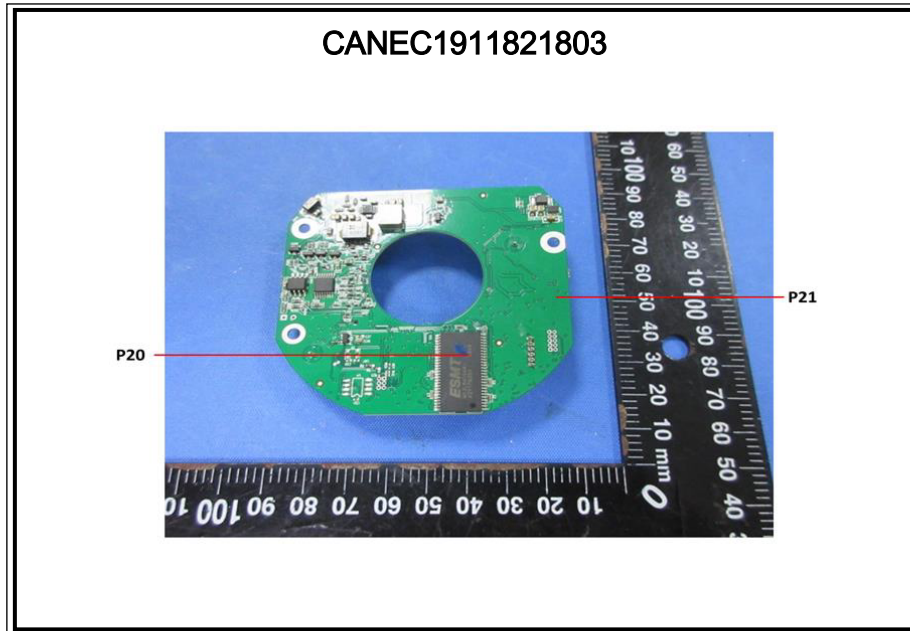
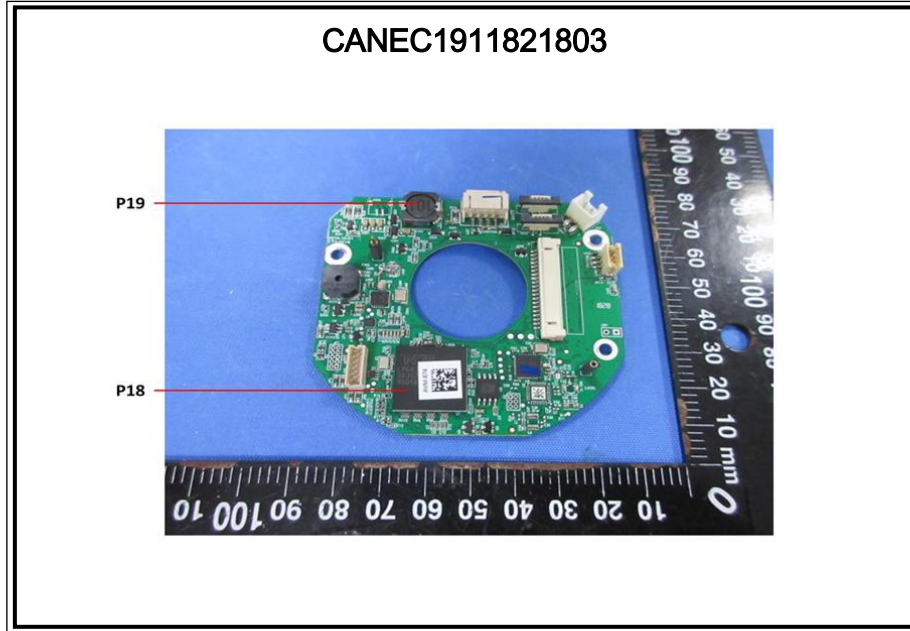


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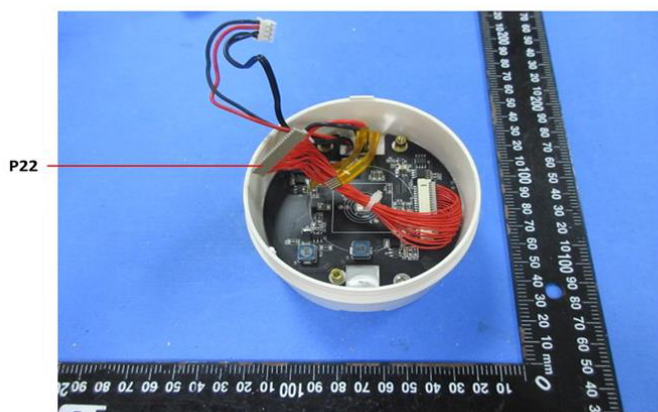
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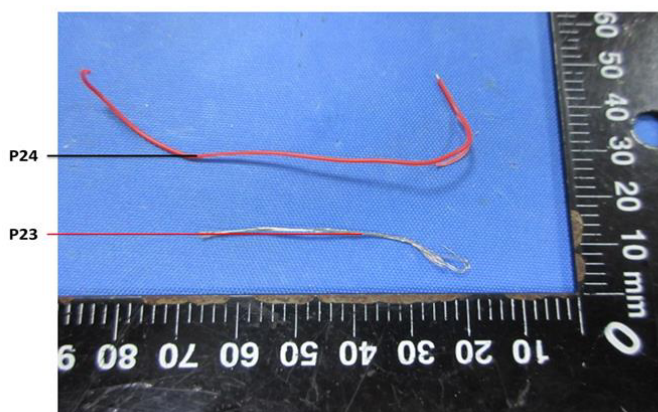
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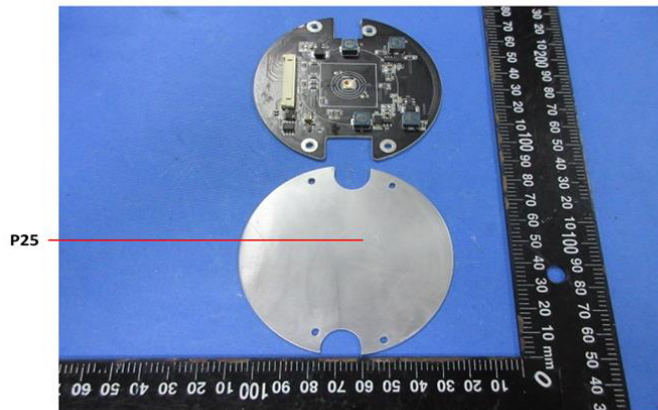
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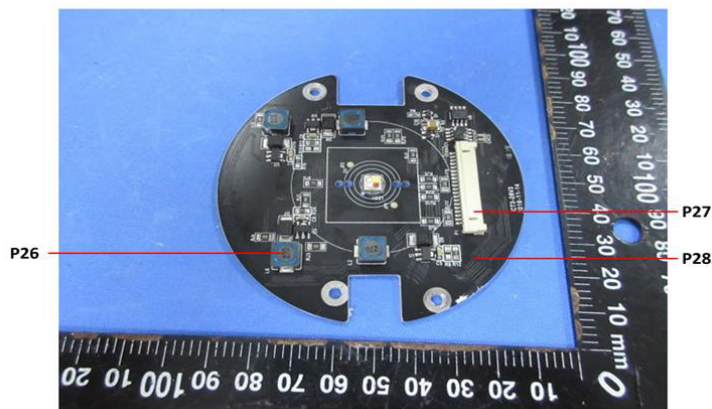
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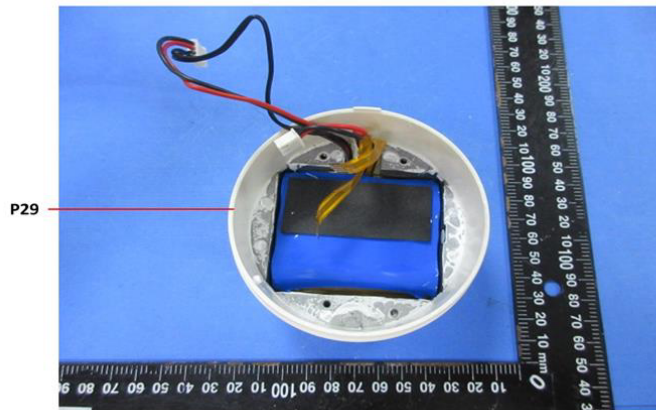
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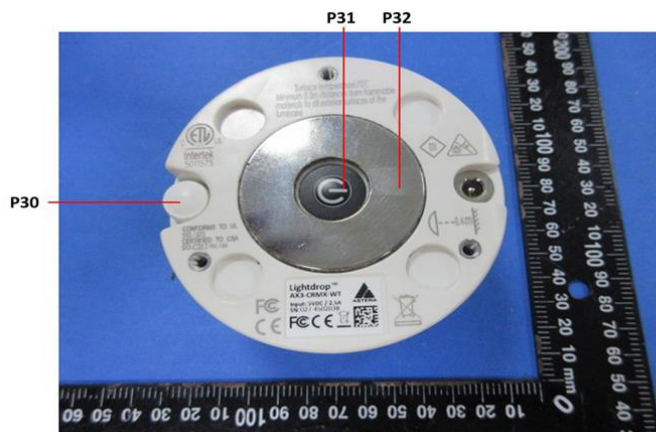
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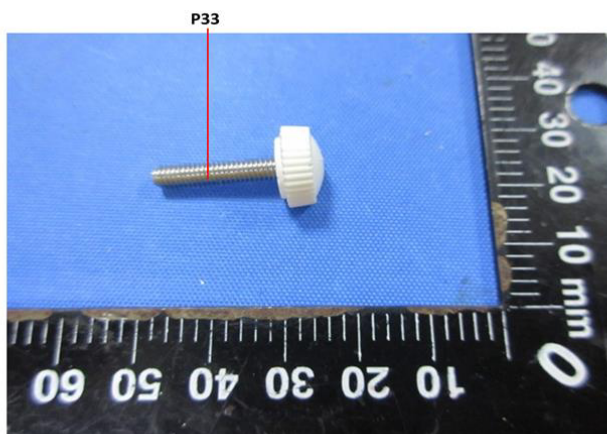
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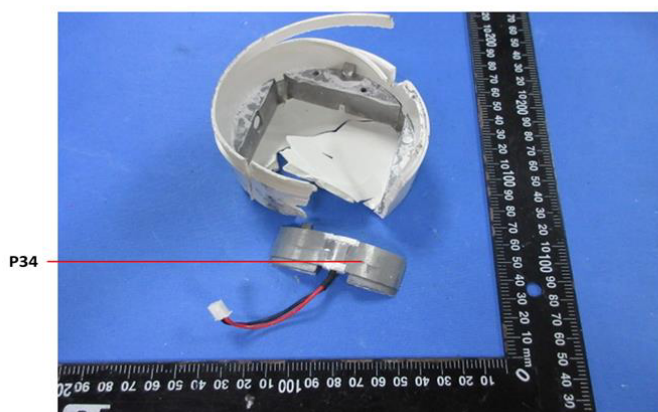
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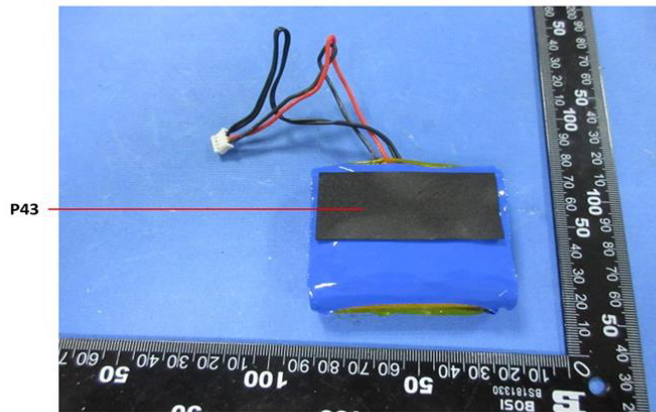
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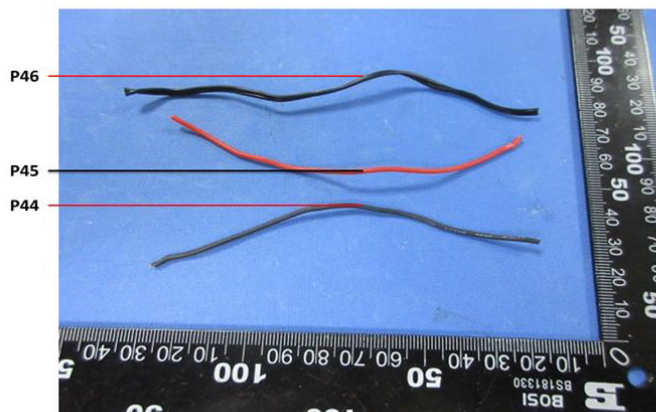
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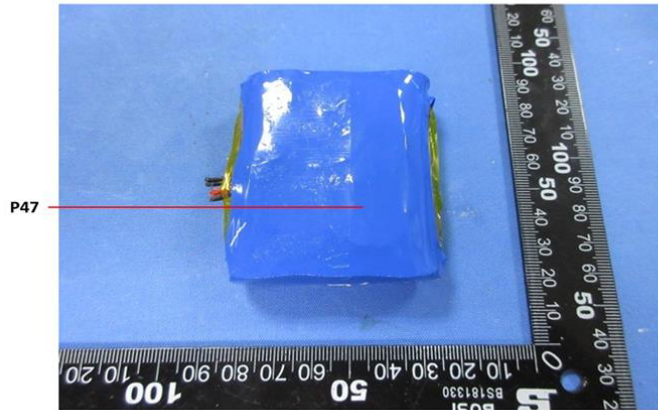
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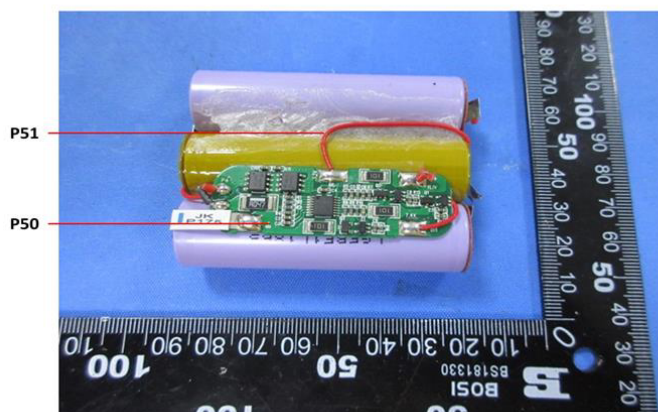
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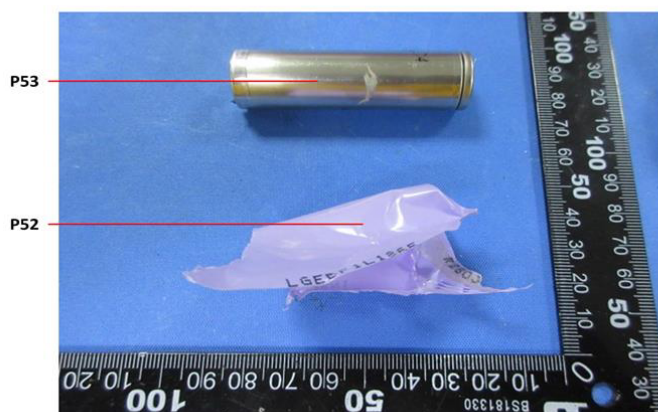
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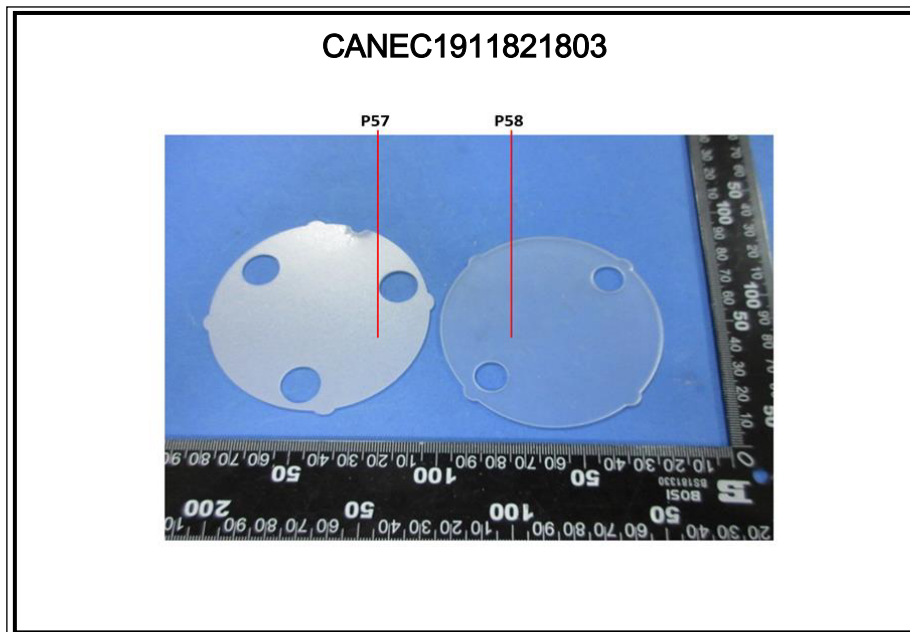
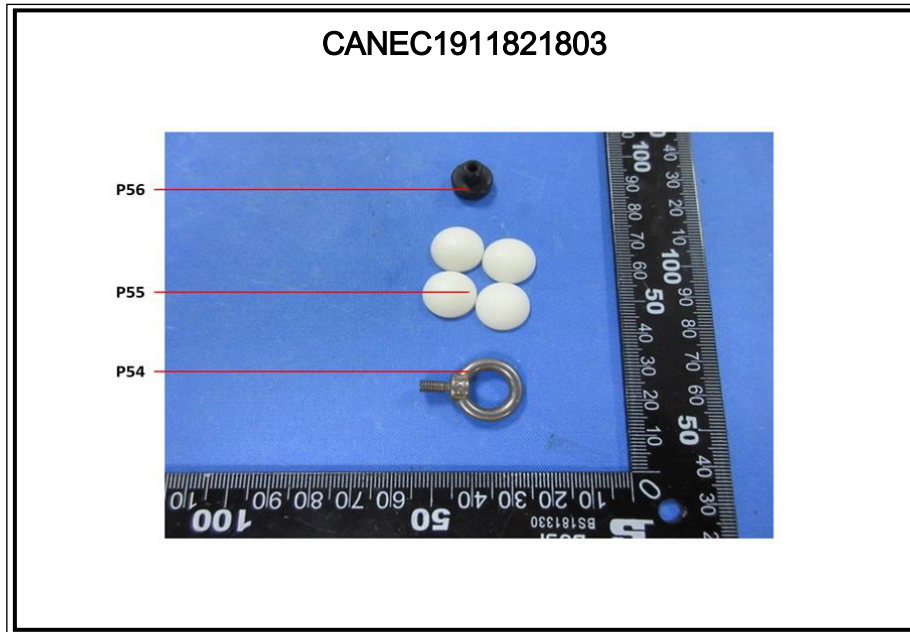


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