

## Test Report (SVHC)

No. CANEC1911608803

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 : AsteraBox

SGS Job No. : CP19-032215 - SZ  
Model No. : ART7  
Date of Sample Received : 18 Jun 2019  
Testing Period : 18 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 003, 006,075,076,089,110,114,115,121,123,130,131.	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	CAN19-116088.001	Nonmetal group(confirmation test)	001
SN2	CAN19-116088.002	Nonmetal group(confirmation test)	002
SN3	CAN19-116088.003	Nonmetal group(confirmation test)	003
SN4	CAN19-116088.004	Metal group(confirmation test)	004
SN5	CAN19-116088.005	Metal group(confirmation test)	005
SN6	CAN19-116088.006	Battery	006
SN7	CAN19-116088.055	Colorless transparent rubber sheet	001-P1
SN8	CAN19-116088.056	Black plastic shell	001-P3
SN9	CAN19-116088.057	Black plastic shell	001-P6
SN10	CAN19-116088.058	Red rubber handle	001-P7
SN11	CAN19-116088.059	Black plastic part	001-P8
SN12	CAN19-116088.060	Black plastic part	001-P9
SN13	CAN19-116088.061	Black plastic part	001-P10
SN14	CAN19-116088.062	Colorless transparent plastic sheet	001-P11



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SN15	CAN19-116088.063	Black plastic part	001-P12
SN16	CAN19-116088.064	Red rubber washer	001-P13
SN17	CAN19-116088.065	Black plastic part	001-P14
SN18	CAN19-116088.066	Black plastic part	001-P15
SN19	CAN19-116088.067	Black plastic shell	001-P16
SN20	CAN19-116088.068	Black plastic part	001-P18
SN21	CAN19-116088.069	Black plastic shell	001-P20
SN22	CAN19-116088.070	Black plastic part	001-P22
SN23	CAN19-116088.071	Black plastic shell	001-P29
SN24	CAN19-116088.072	Grey plastic part	001-P30
SN25	CAN19-116088.073	Mixed part	001-P33
SN26	CAN19-116088.074	Black plastic shell	001-P34
SN27	CAN19-116088.075	Black plastic shell	002-P39
SN28	CAN19-116088.076	Black plastic shell	002-P43
SN29	CAN19-116088.077	Black plastic shell	002-P44
SN30	CAN19-116088.078	Black plastic part	002-P47
SN31	CAN19-116088.079	Black plastic part	002-P48
SN32	CAN19-116088.080	Black plastic part	002-P49
SN33	CAN19-116088.081	Black plastic part	002-P53
SN34	CAN19-116088.082	Brown plastic (flat cable jacket)	002-P55
SN35	CAN19-116088.083	White plastic ring	002-P63
SN36	CAN19-116088.084	Green "PCB" w/ solder	002-P67
SN37	CAN19-116088.085	Black body	002-P68
SN38	CAN19-116088.086	Black body	002-P69
SN39	CAN19-116088.087	Brown plastic housing	002-P70
SN40	CAN19-116088.088	Black plastic part	002-P71
SN41	CAN19-116088.089	Black "PCB" w/ solder	002-P72
SN42	CAN19-116088.090	Green "PCB" w/ solder	002-P74
SN43	CAN19-116088.091	Green "PCB" w/ solder	002-P75
SN44	CAN19-116088.092	Green "PCB" w/ solder	002-P76
SN45	CAN19-116088.093	Black foam sheet	003-P2
SN46	CAN19-116088.094	Black rubber thread	003-P4
SN47	CAN19-116088.095	Black plastic (cable jacket)	003-P23
SN48	CAN19-116088.096	Green plastic (wire insulation) w/ wire	003-P24
SN49	CAN19-116088.097	Red plastic (wire insulation) w/ wire	003-P25
SN50	CAN19-116088.098	Black plastic (wire insulation) w/ wire	003-P26
SN51	CAN19-116088.099	White plastic (wire insulation) w/ wire	003-P27



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SN52	CAN19-116088.100	Black plastic (cable jacket)	003-P35
SN53	CAN19-116088.101	Black plastic (wire insulation) w/ wire	003-P36
SN54	CAN19-116088.102	White plastic (wire insulation) w/ wire	003-P37
SN55	CAN19-116088.103	Red plastic (wire insulation) w/ wire	003-P38
SN56	CAN19-116088.104	Grey plastic (wire insulation) w/ wire	003-P54
SN57	CAN19-116088.105	Black adhesive foam sheet	003-P62
SN58	CAN19-116088.106	Red plastic (wire insulation) w/ wire	003-P64
SN59	CAN19-116088.107	Black plastic (wire insulation) w/ wire	003-P65
SN60	CAN19-116088.108	Black plastic (wire insulation) w/ wire	003-P66
SN61	CAN19-116088.109	Blue plastic shell	003-P78
SN62	CAN19-116088.110	Green "PCB" w/ solder	003-P80
SN63	CAN19-116088.111	Purple plastic shell	003-P81
SN64	CAN19-116088.112	Silvery metal rod	004-P5
SN65	CAN19-116088.113	Silvery metal pin	004-P17
SN66	CAN19-116088.114	Silvery metal pin	004-P19
SN67	CAN19-116088.115	Silvery metal pin	004-P21
SN68	CAN19-116088.116	Silvery metal part	004-P28
SN69	CAN19-116088.117	Silvery metal sheet	004-P31
SN70	CAN19-116088.118	Golden metal pin	004-P32
SN71	CAN19-116088.119	Silvery metal tube	004-P40
SN72	CAN19-116088.120	Silvery metal tube	004-P41
SN73	CAN19-116088.121	Silvery metal pin	004-P42
SN74	CAN19-116088.122	Silvery metal part	004-P45
SN75	CAN19-116088.123	Silvery metal pin	004-P46
SN76	CAN19-116088.124	Silvery metal pin	005-P50
SN77	CAN19-116088.125	Black surfaced metal part	005-P51
SN78	CAN19-116088.126	Black surfaced metal screw	005-P52
SN79	CAN19-116088.127	Golden metal (teeth washer)	005-P56
SN80	CAN19-116088.128	Golden metal (spring washer)	005-P57
SN81	CAN19-116088.129	Copper-colored metal spring	005-P58
SN82	CAN19-116088.130	Golden metal part	005-P59
SN83	CAN19-116088.131	Golden metal nut	005-P60
SN84	CAN19-116088.132	Black surfaced metal sheet	005-P61
SN85	CAN19-116088.133	Silvery metal cover	005-P73
SN86	CAN19-116088.134	Black surfaced metal shell	005-P77
SN87	CAN19-116088.135	Silvery metal sheet	005-P79



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SGS Sample ID	Photo No.	Material Description
001	P1	Colorless transparent rubber sheet
001	P3	Black plastic shell
001	P6	Black plastic shell
001	P7	Red rubber handle
001	P8	Black plastic part
001	P9	Black plastic part
001	P10	Black plastic part
001	P11	Colorless transparent plastic sheet
001	P12	Black plastic part
001	P13	Red rubber washer
001	P14	Black plastic part
001	P15	Black plastic part
001	P16	Black plastic shell
001	P18	Black plastic part
001	P20	Black plastic shell
001	P22	Black plastic part
001	P29	Black plastic shell
001	P30	Grey plastic part
001	P33	Mixed part
001	P34	Black plastic shell
002	P39	Black plastic shell
002	P43	Black plastic shell
002	P44	Black plastic shell
002	P47	Black plastic part



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SGS Sample ID	Photo No.	Material Description
002	P48	Black plastic part
002	P49	Black plastic part
002	P53	Black plastic part
002	P55	Brown plastic (flat cable jacket)
002	P63	White plastic ring
002	P67	Green "PCB" w/ solder
002	P68	Black body
002	P69	Black body
002	P70	Brown plastic housing
002	P71	Black plastic part
002	P72	Black "PCB" w/ solder
002	P74	Green "PCB" w/ solder
002	P75	Green "PCB" w/ solder
002	P76	Green "PCB" w/ solder
003	P2	Black foam sheet
003	P4	Black rubber thread
003	P23	Black plastic (cable jacket)
003	P24	Green plastic (wire insulation) w/ wire
003	P25	Red plastic (wire insulation) w/ wire
003	P26	Black plastic (wire insulation) w/ wire
003	P27	White plastic (wire insulation) w/ wire
003	P35	Black plastic (cable jacket)
003	P36	Black plastic (wire insulation) w/ wire
003	P37	White plastic (wire insulation) w/ wire



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SGS Sample ID	Photo No.	Material Description
003	P38	Red plastic (wire insulation) w/ wire
003	P54	Grey plastic (wire insulation) w/ wire
003	P62	Black adhesive foam sheet
003	P64	Red plastic (wire insulation) w/ wire
003	P65	Black plastic (wire insulation) w/ wire
003	P66	Black plastic (wire insulation) w/ wire
003	P78	Blue plastic shell
003	P80	Green "PCB" w/ solder
003	P81	Purple plastic shell
004	P5	Silvery metal rod
004	P17	Silvery metal pin
004	P19	Silvery metal pin
004	P21	Silvery metal pin
004	P28	Silvery metal part
004	P31	Silvery metal sheet
004	P32	Golden metal pin
004	P40	Silvery metal tube
004	P41	Silvery metal tube
004	P42	Silvery metal pin
004	P45	Silvery metal part
004	P46	Silvery metal pin
005	P50	Silvery metal pin
005	P51	Black surfaced metal part
005	P52	Black surfaced metal screw



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SGS Sample ID	Photo No.	Material Description
005	P56	Golden metal (teeth washer)
005	P57	Golden metal (spring washer)
005	P58	Copper-colored metal spring
005	P59	Golden metal part
005	P60	Golden metal nut
005	P61	Black surfaced metal sheet
005	P73	Silvery metal cover
005	P77	Black surfaced metal shell
005	P79	Silvery metal sheet
006	P82	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 Report (SVHC)

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

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	see below confirmation test result	0.100
-	Other tested SVHC in candidate list	-	ND	-

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

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	see below confirmation test result	0.100
VIII	N,N-dimethylformamide	68-12-2	see below confirmation test result	0.100
VIII	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.023	0.010
VIII	Dioxobis(stearato)trilead*	12578-12-0	0.034	0.010
VIII	Fatty acids, C16-18, lead salts*	91031-62-8	0.065	0.010
VIII	Lead cyanamidate*	20837-86-9	0.021	0.010
VIII	Lead dinitrate*	10099-74-8	0.028	0.010
VIII	Lead monoxide*	1317-36-8	0.019	0.010
VIII	Lead oxide sulfate*	12036-76-9	0.022	0.010
VIII	Lead tetroxide (orange lead)*	1314-41-6	0.019	0.010
VIII	Lead titanium trioxide*	12060-00-3	0.026	0.010
VIII	Lead titanium zirconium oxide*	12626-81-2	0.029	0.010
VIII	Pentalead tetraoxide sulphate*	12065-90-6	0.020	0.010
VIII	Pyrochlore, antimony lead yellow*	8012-00-8	0.033	0.010
VIII	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.022	0.010
VIII	Tetralead trioxide sulphate*	12202-17-4	0.021	0.010
VIII	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.022	0.010
VIII	Trilead dioxide phosphonate*	12141-20-7	0.021	0.010
X	Lead di(acetate)*	301-04-2	0.027	0.010
XIX	Lead*	7439-92-1	0.018	0.010
-	Other tested SVHC in candidate list	-	ND	-



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

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	see below confirmation test result	0.100
VIII	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.693	0.010
VIII	Dioxobis(stearato)trilead*	12578-12-0	1.034	0.010
VIII	Fatty acids, C16-18, lead salts*	91031-62-8	1.965	0.010
VIII	Lead cyanamidate*	20837-86-9	0.634	0.010
VIII	Lead dinitrate*	10099-74-8	0.842	0.010
VIII	Lead monoxide*	1317-36-8	0.567	0.010
VIII	Lead oxide sulfate*	12036-76-9	0.669	0.010
VIII	Lead tetroxide (orange lead)*	1314-41-6	0.581	0.010
VIII	Lead titanium trioxide*	12060-00-3	0.771	0.010
VIII	Lead titanium zirconium oxide*	12626-81-2	0.881	0.010
VIII	Pentalead tetraoxide sulphate*	12065-90-6	0.608	0.010
VIII	Pyrochlore, antimony lead yellow*	8012-00-8	0.329	0.010
VIII	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.672	0.010
VIII	Tetralead trioxide sulphate*	12202-17-4	0.618	0.010
VIII	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.658	0.010
VIII	Trilead dioxide phosphonate*	12141-20-7	0.622	0.010
X	Lead di(acetate)*	301-04-2	0.827	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.	004 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.075	0.010
IX	Cadmium oxide*	1306-19-0	0.016	0.010
IX	Cadmium*	7440-43-9	0.014	0.010



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

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
XVIII	Cadmium nitrate*	10325-94-7	0.030	0.010
XVIII	Cadmium carbonate*	513-78-0	0.022	0.010
XVIII	Cadmium hydroxide*	21041-95-2	0.018	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.	005 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.	006 Concentration (%)	RL (%)
I	Cobalt dichloride*	7646-79-9	6.342	0.010
III	Boric acid*	-	0.175	0.010
III	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.142	0.010
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.142	0.010
IV	Cobalt(II) carbonate*	513-79-1	5.810	0.010
IV	Cobalt(II) diacetate*	71-48-7	8.646	0.010
IV	Cobalt(II) dinitrate*	10141-05-6	8.935	0.010
IV	Cobalt(II) sulphate*	10124-43-3	7.570	0.010
VII	Diboron trioxide*	1303-86-2	0.099	0.010
XIX	Disodium octaborate*	12008-41-2	0.120	0.010
-	Other tested SVHC in candidate list	-	ND	-



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### Confirmation Test Result:

Batch	Substance Name	CAS No.	055 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	0.078	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	056 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	057 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	058 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	059 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	060 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	061 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	062 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	063 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	064 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	065 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	066 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	067 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	068 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	069 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	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 (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	071 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	072 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	073 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	074 Concentration (%)	RL (%)
VIII	4-Nonylphenol, branched and linear	-	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	075 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.264	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	076 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	18.313	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

### Confirmation Test Result:



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	077 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	078 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	079 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	080 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	081 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	082 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

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## Confirmation Test Result:

Batch	Substance Name	CAS No.	083 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	084 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	085 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	086 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	087 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

## Confirmation Test Result:

Batch	Substance Name	CAS No.	088 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

## Confirmation Test Result:



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### Confirmation Test Result:

Batch	Substance Name	CAS No.	089 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	0.111	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	090 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	091 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	092 Concentration (%)	RL (%)
I	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	ND	0.050
VIII	N,N-dimethylformamide	68-12-2	ND	0.050

### Confirmation Test Result:

Batch	Substance Name	CAS No.	093 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	094 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:



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### Confirmation Test Result:

Batch	Substance Name	CAS No.	095 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	096 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	097 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	098 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	099 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	100 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:



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### Confirmation Test Result:

Batch	Substance Name	CAS No.	101 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	102 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	103 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	104 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	105 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	106 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:



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### Confirmation Test Result:

Batch	Substance Name	CAS No.	107 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	108 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	109 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	110 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	0.516	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	111 Concentration (%)	RL (%)
I	Dibutyl phthalate (DBP)	84-74-2	ND	0.050
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	112 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

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### Confirmation Test Result:

Batch	Substance Name	CAS No.	113 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	114 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	1.883	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	115 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	2.616	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	116 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	117 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	118 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	119 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.007	0.005

### Confirmation Test Result:

Batch	Substance Name	CAS No.	120 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.006	0.005



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	121 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	2.576	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	122 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	123 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	2.519	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	124 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.	125 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.	126 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.	127 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005



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## Confirmation Test Result:

Batch	Substance Name	CAS No.	127 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	ND	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	128 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.	129 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	0.009	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	130 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.012	0.005
XIX	Lead*	7439-92-1	2.704	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	131 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.012	0.005
XIX	Lead*	7439-92-1	2.637	0.005

## Confirmation Test Result:

Batch	Substance Name	CAS No.	132 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.	133 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.	134 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.	135 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	ND	0.005
XIX	Lead*	7439-92-1	ND	0.005



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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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## Appendix

### Full list of tested SVHC:

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	0.100
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	0.050
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 ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -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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### Full list of tested SVHC:

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	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.100
VII	84	$\beta$ -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	-	0.050
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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#### Full list of tested SVHC:

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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### Full list of tested SVHC:

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	0.050
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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## Appendix

### Full list of tested SVHC:

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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### 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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### Appendix

#### 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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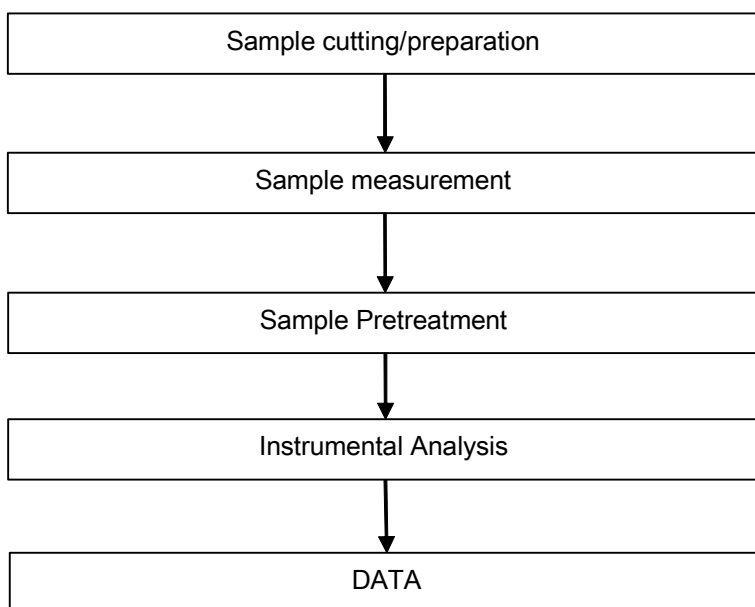
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## ATTACHMENTS

### SVHC Testing Flow Chart



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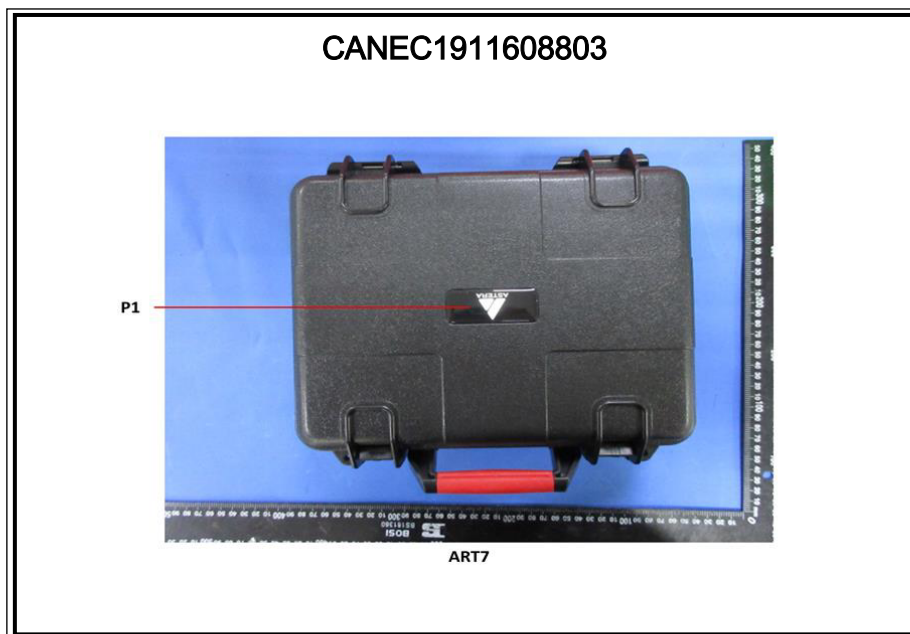
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Sample photo:



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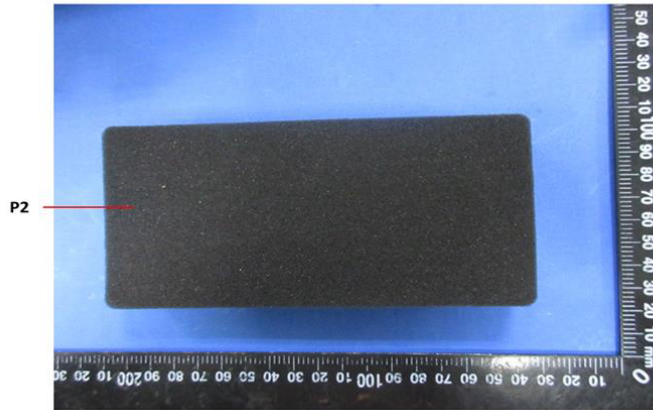
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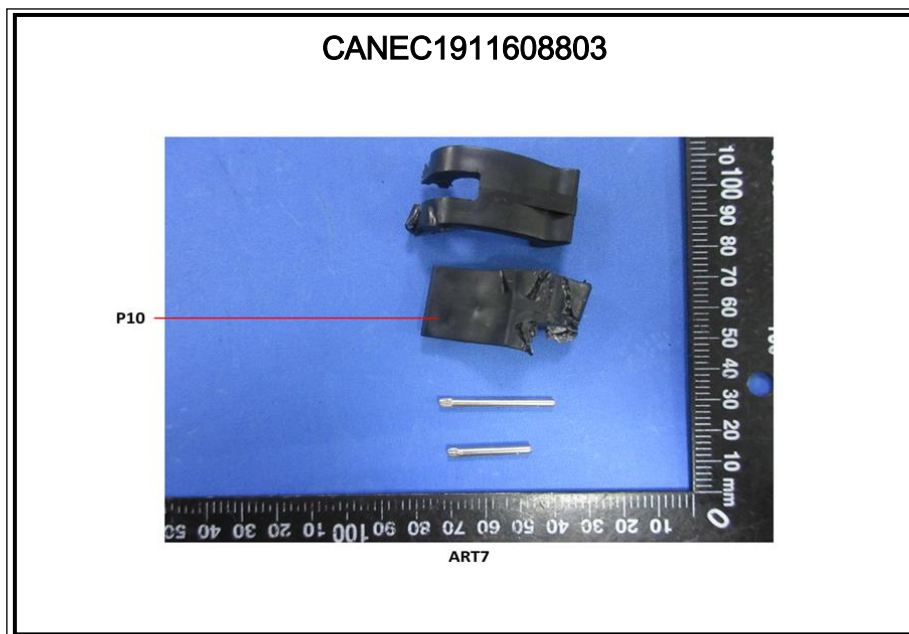
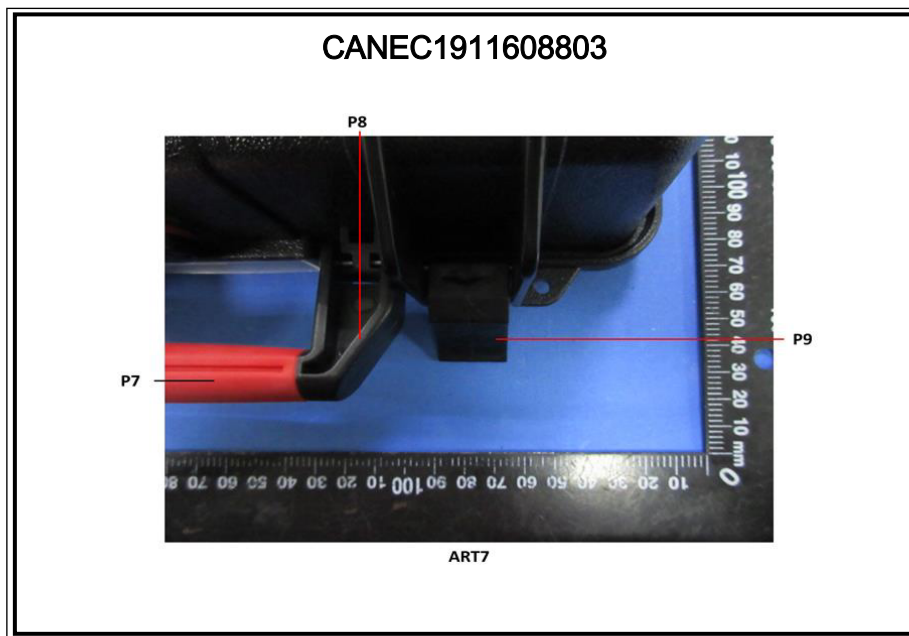
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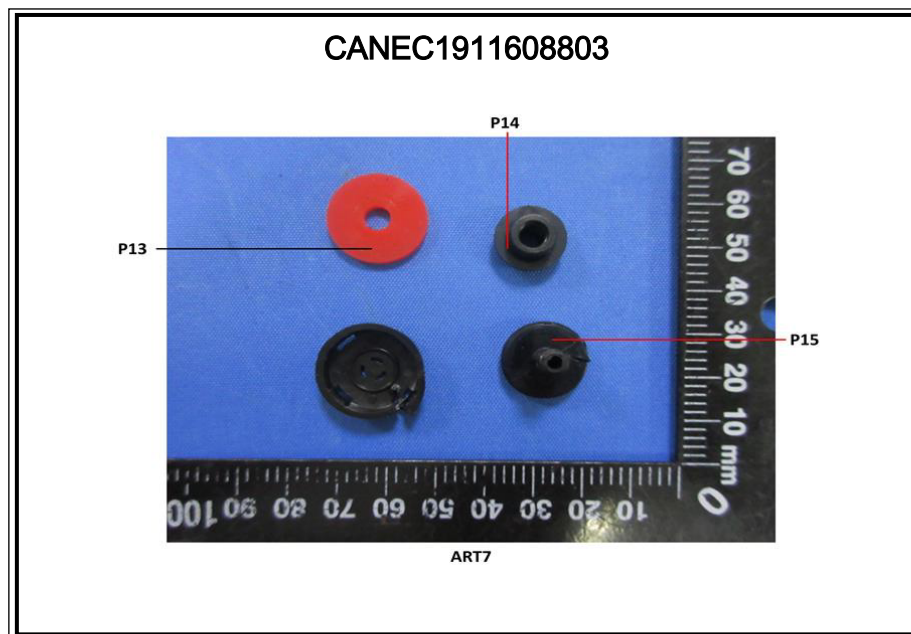
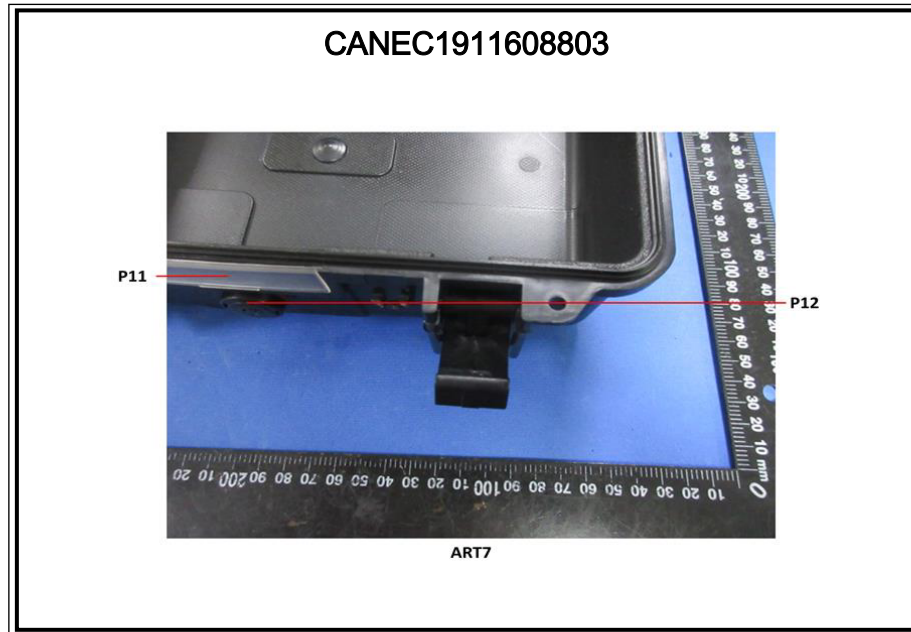


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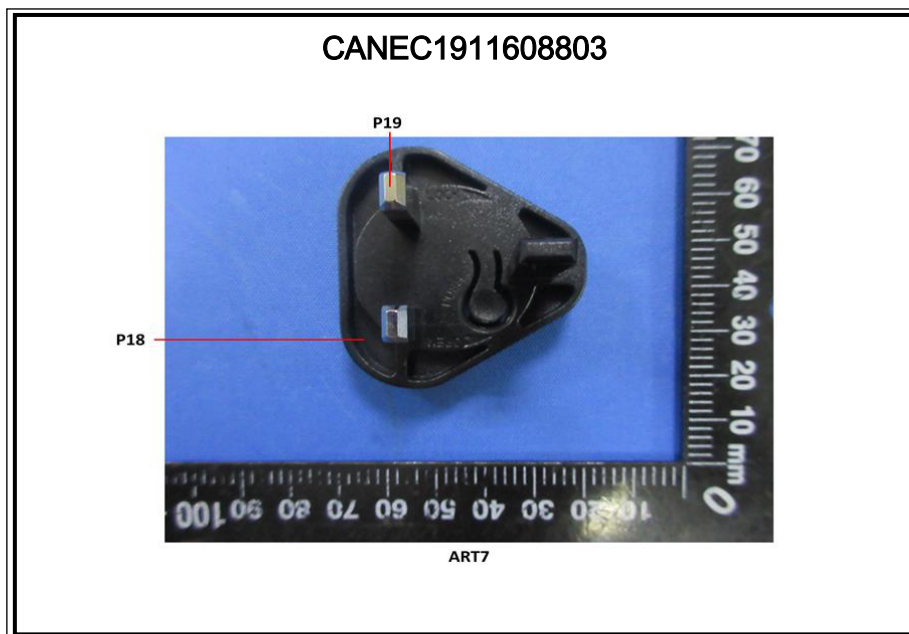
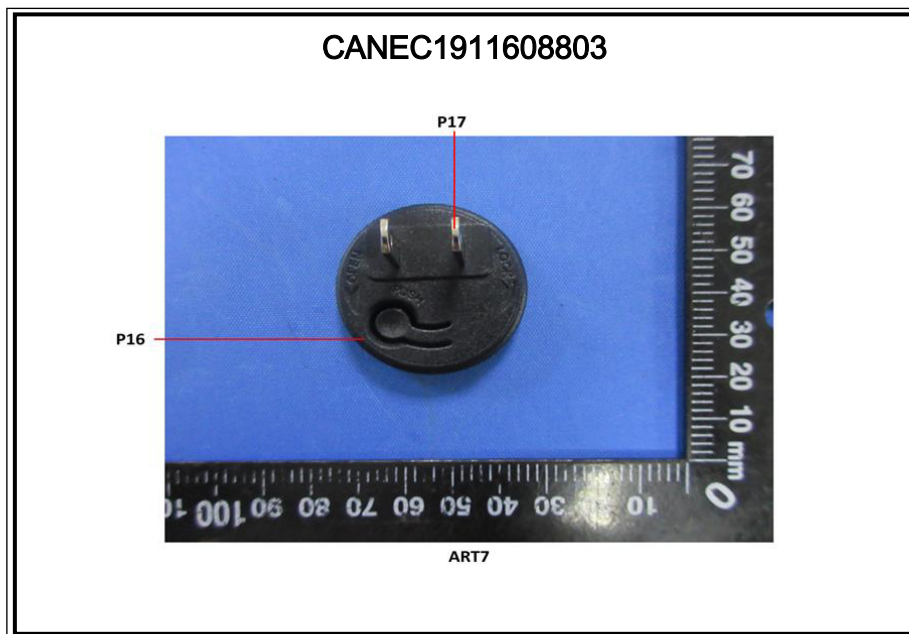


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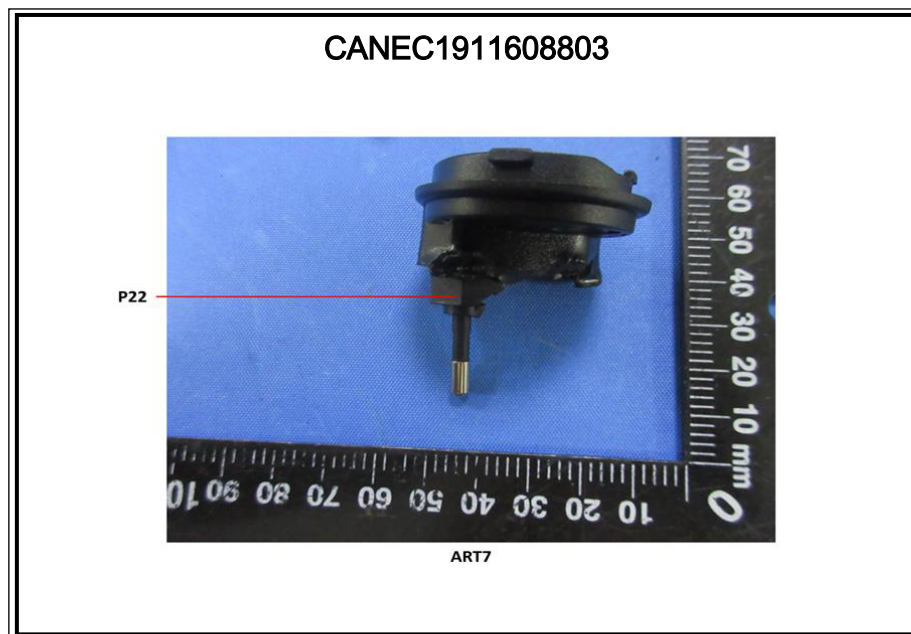
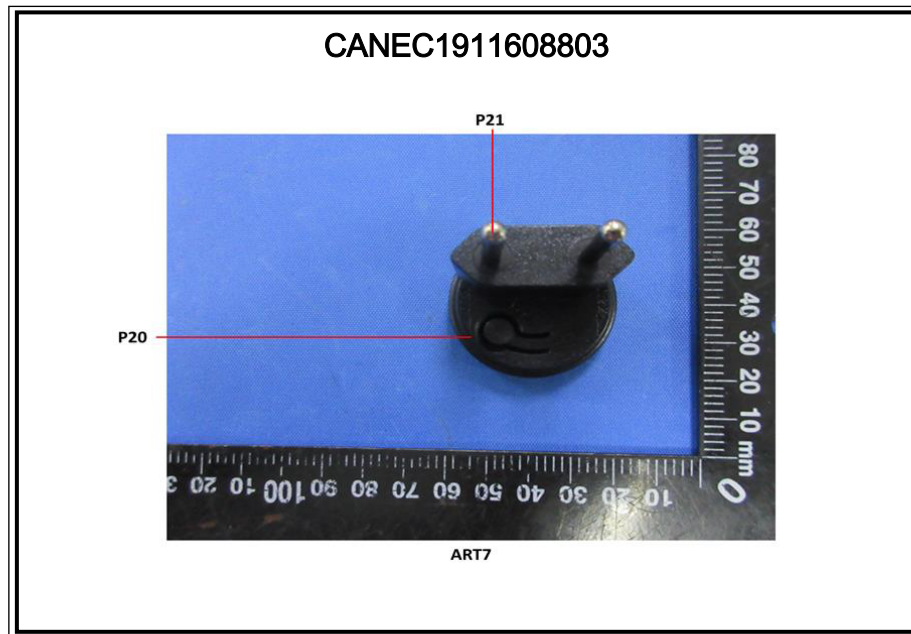


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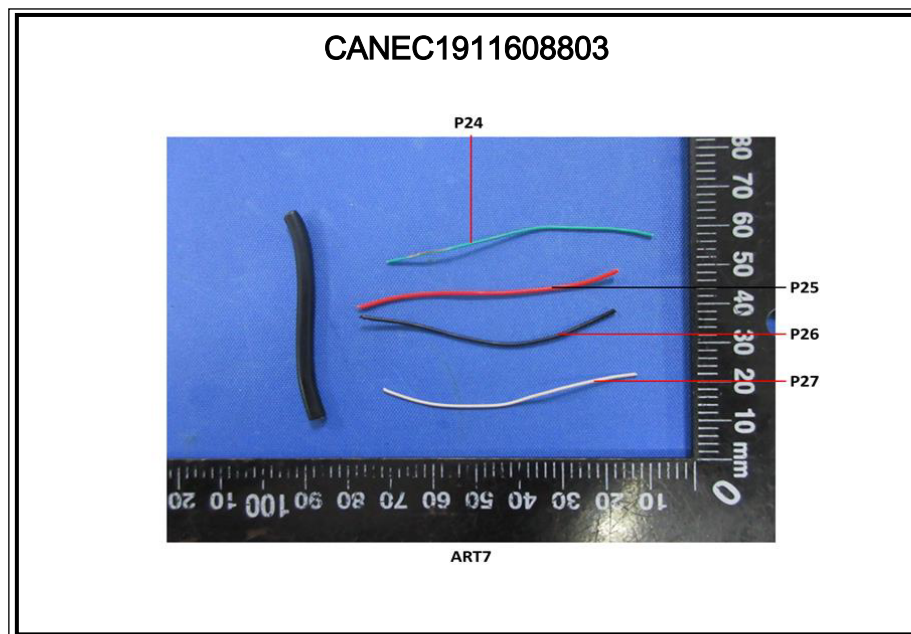
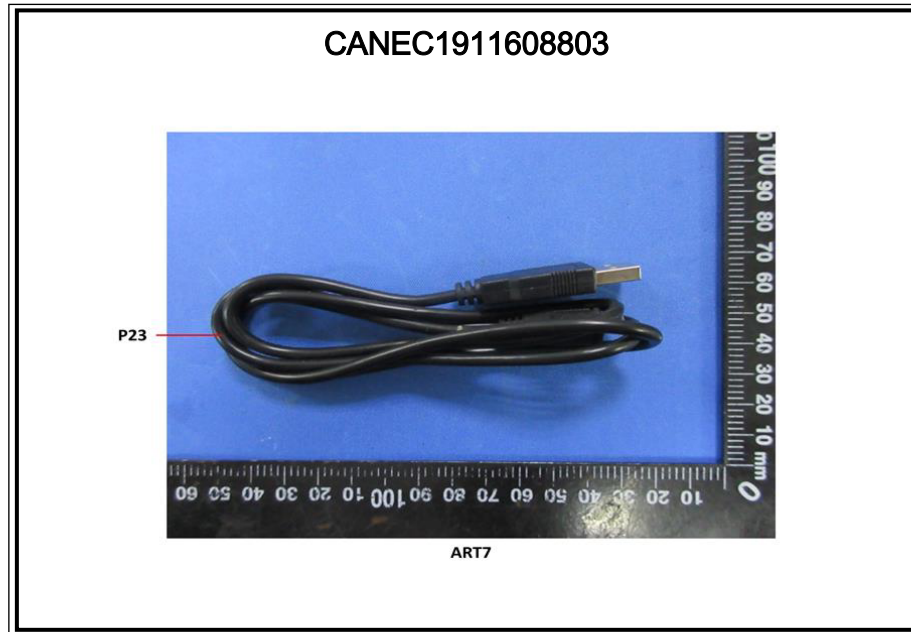
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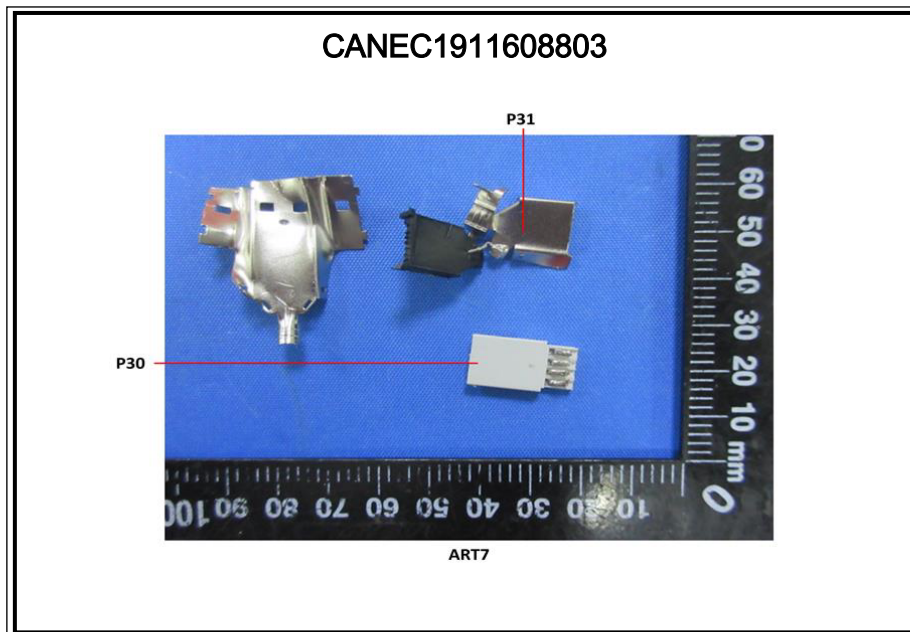
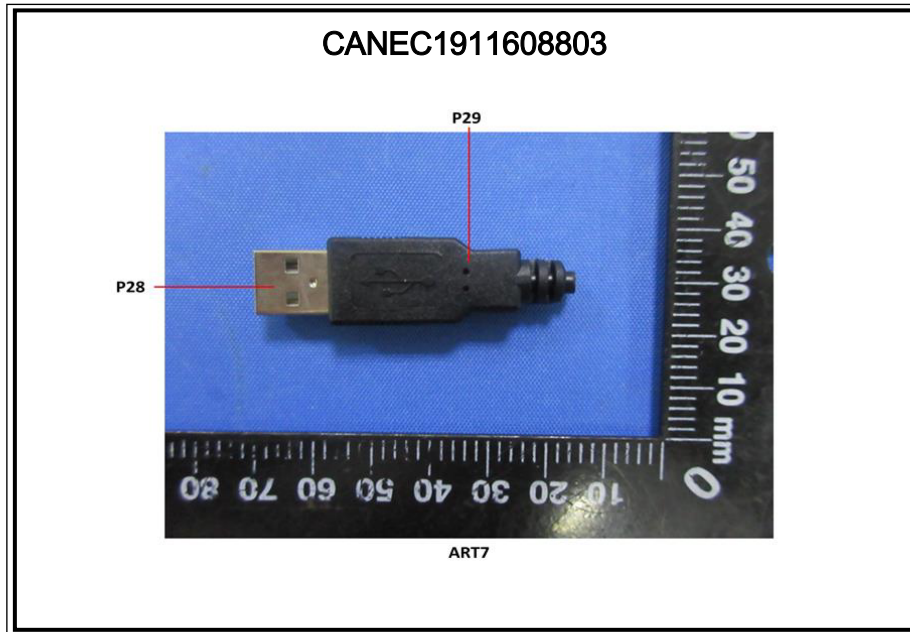


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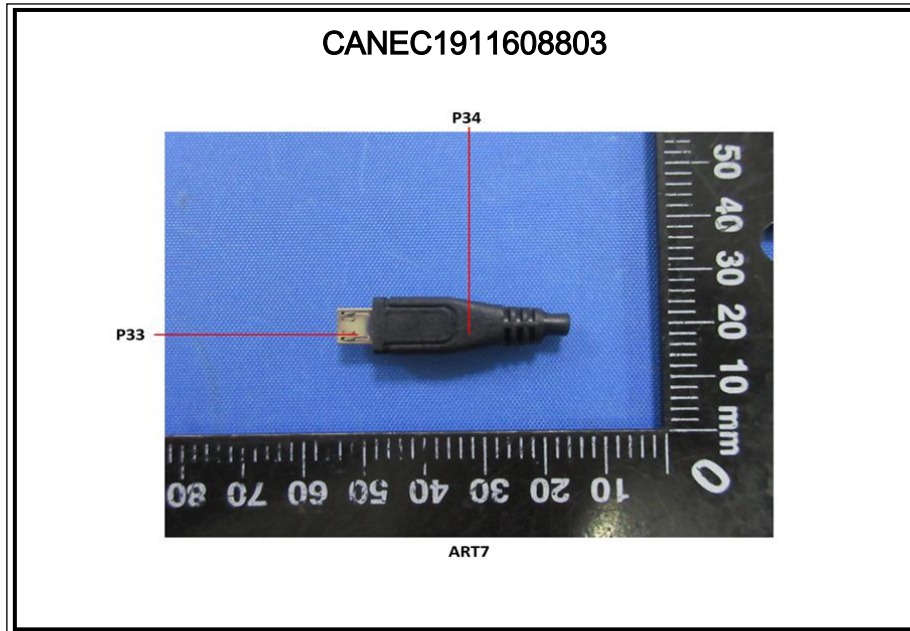
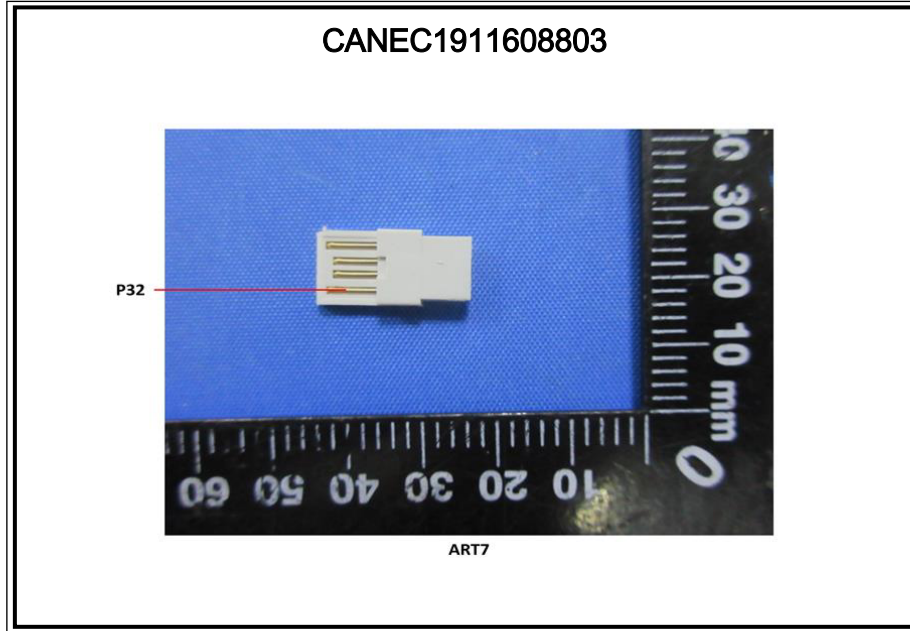
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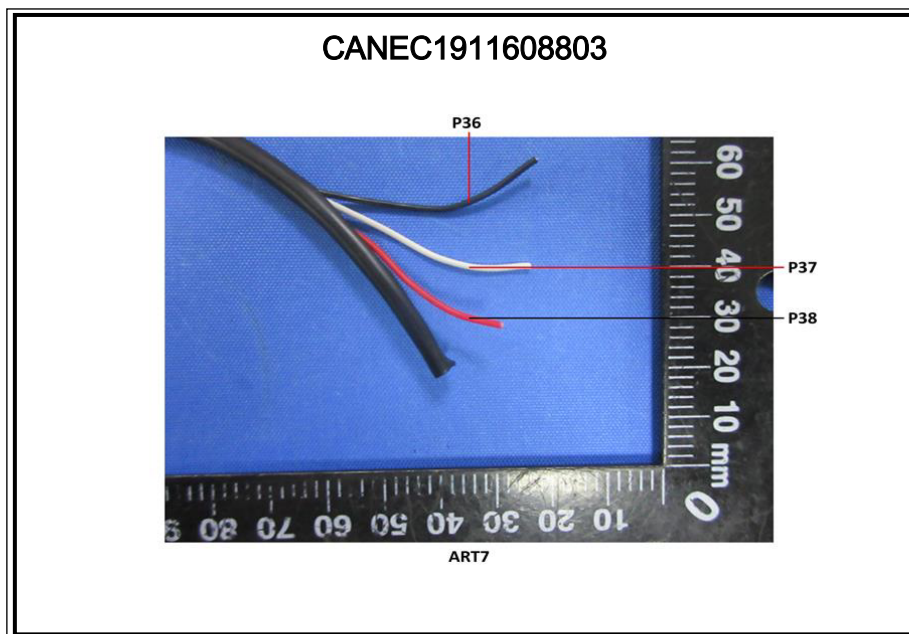
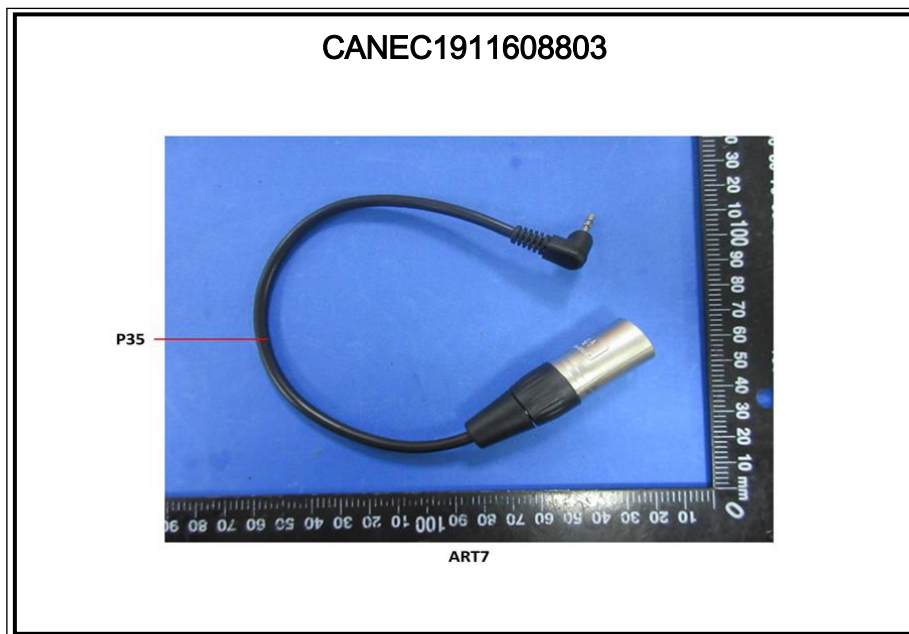


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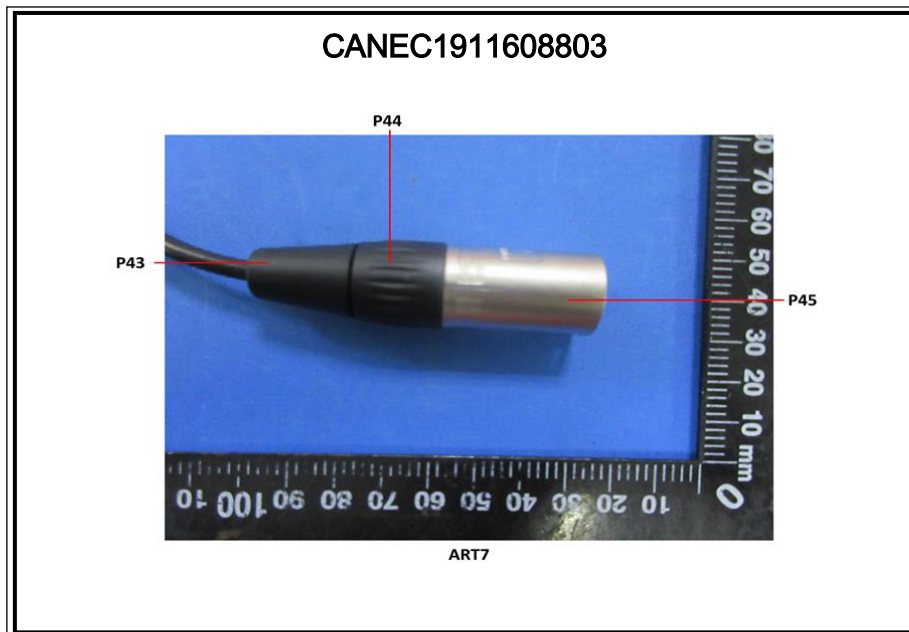
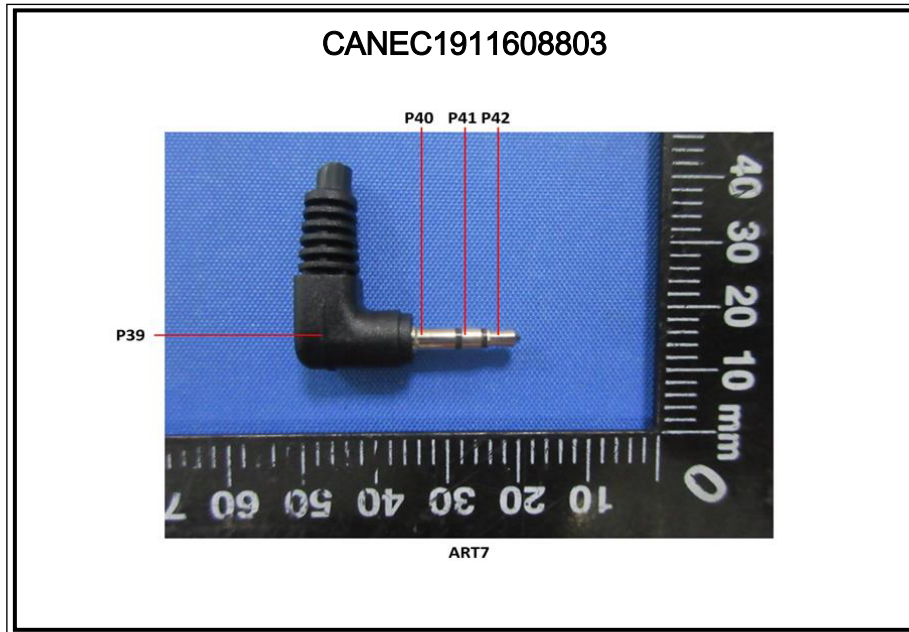
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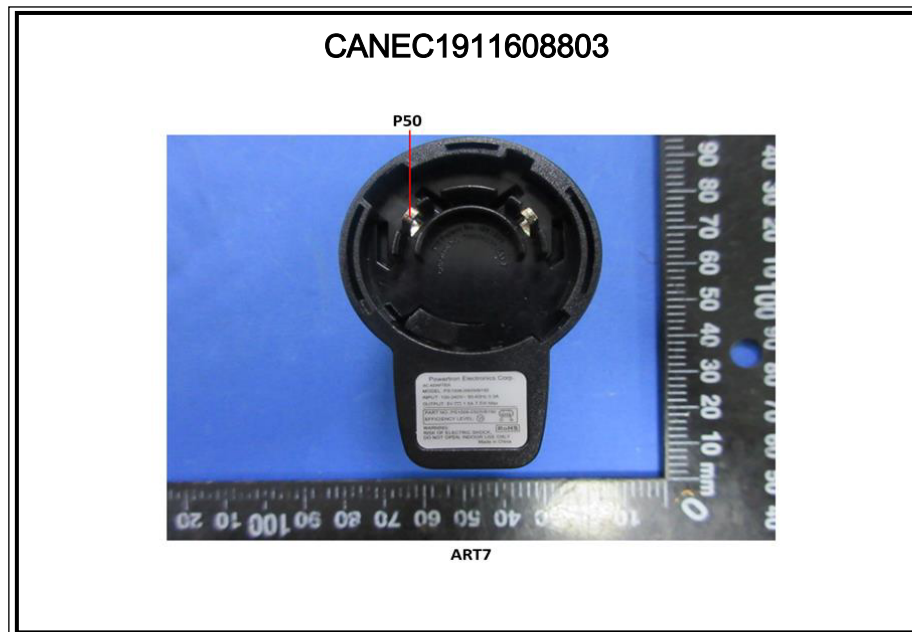
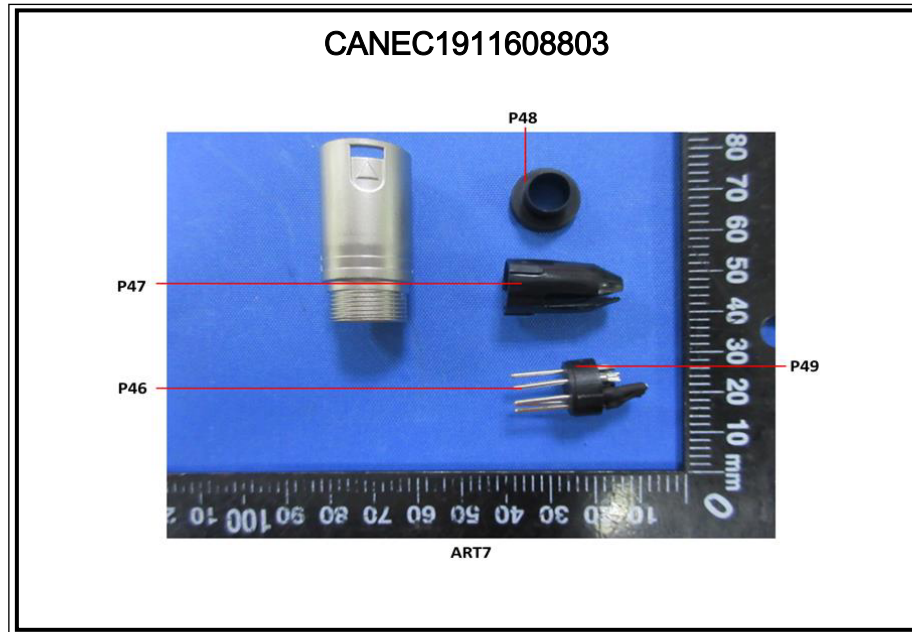
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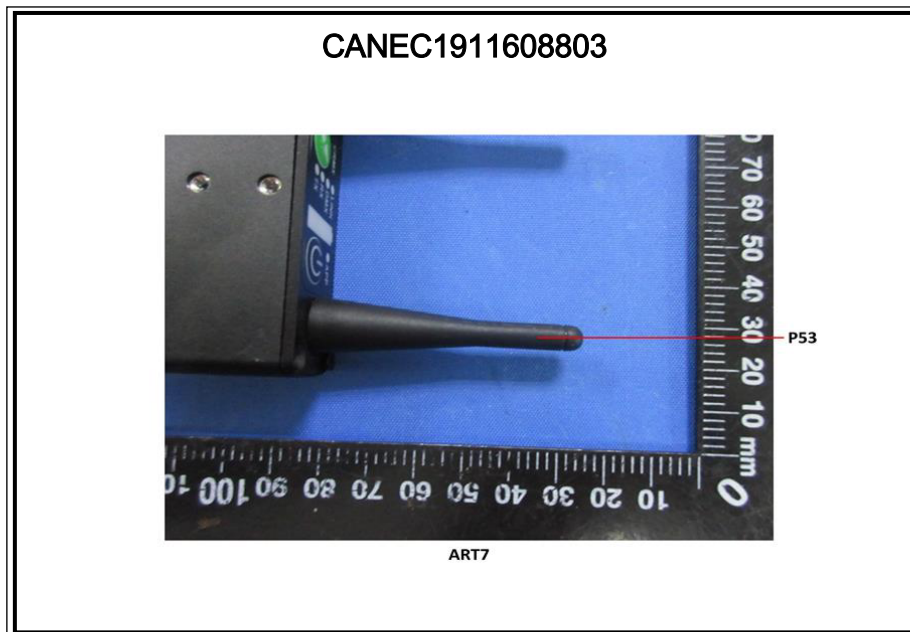
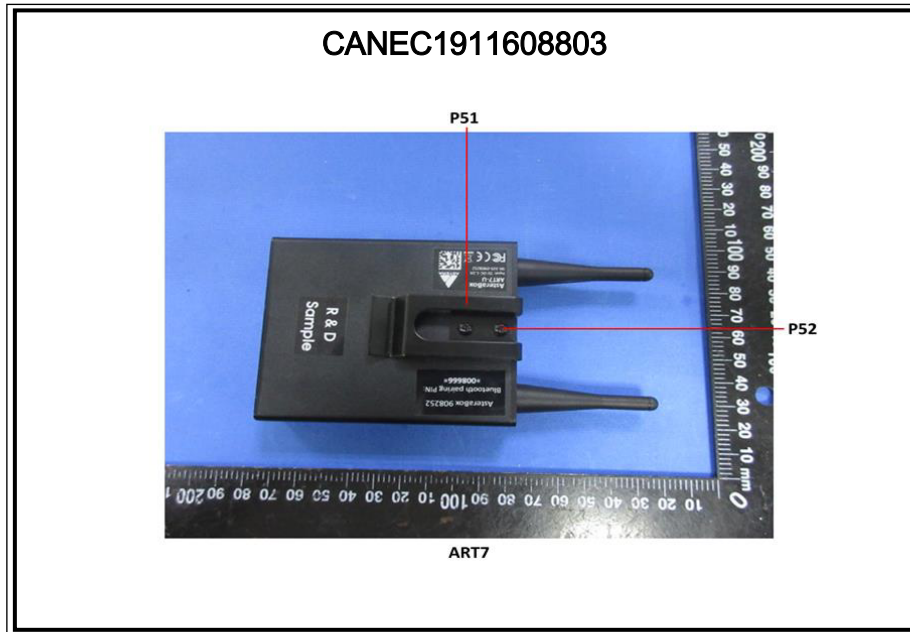
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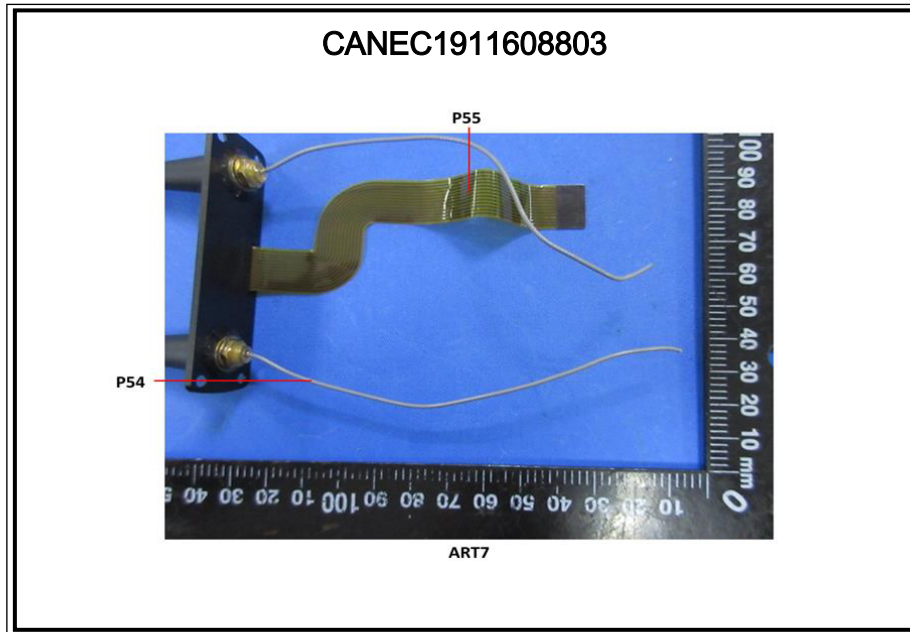


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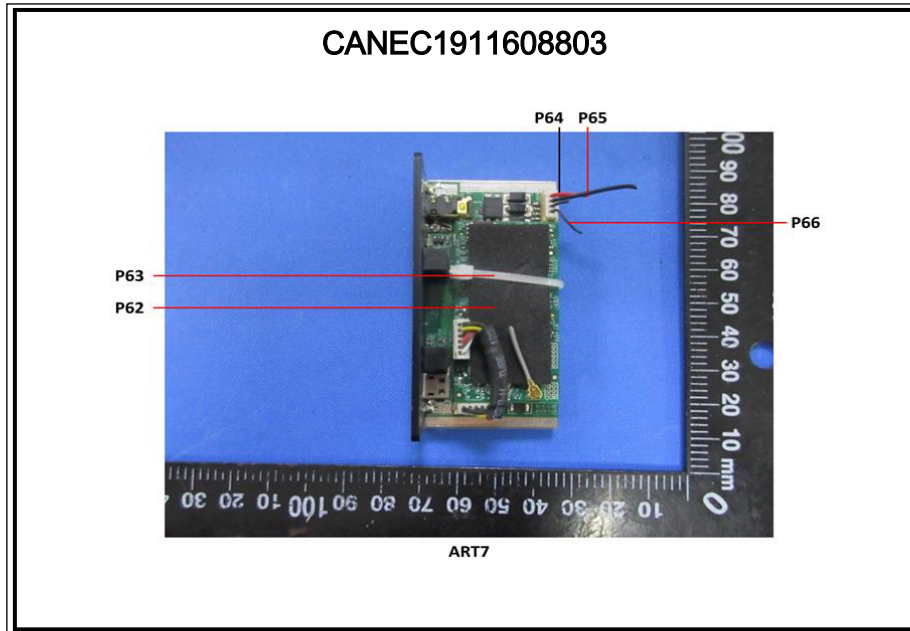
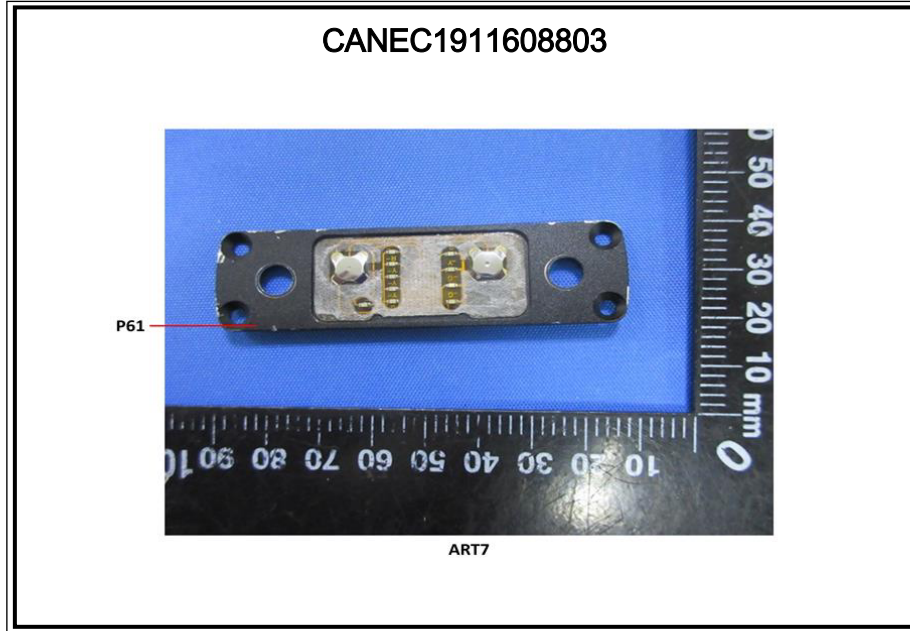


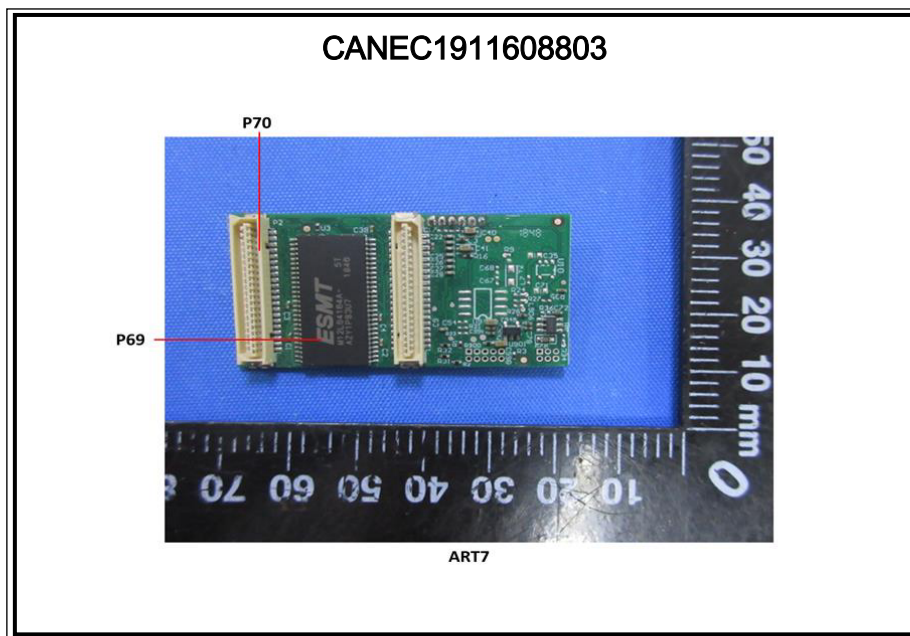
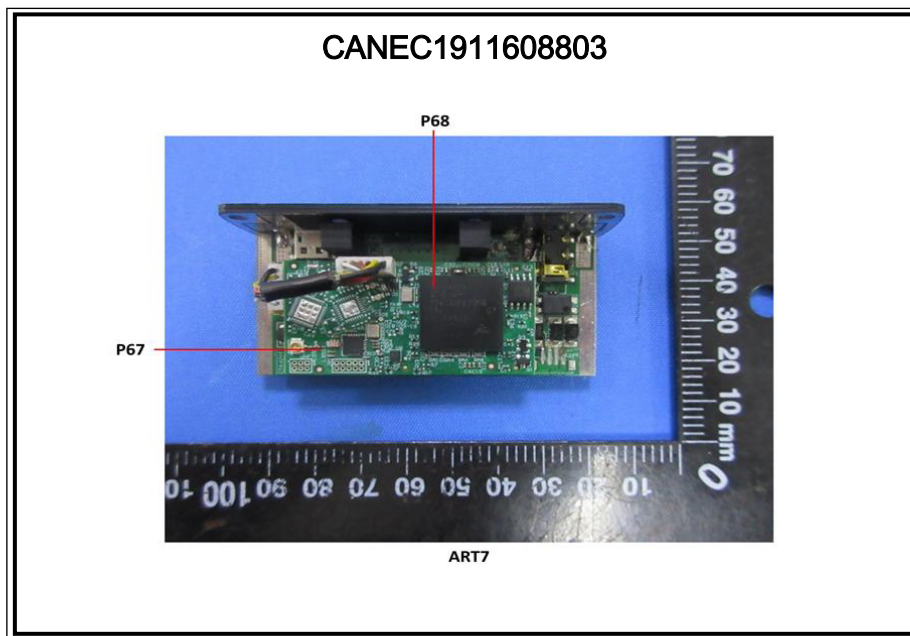
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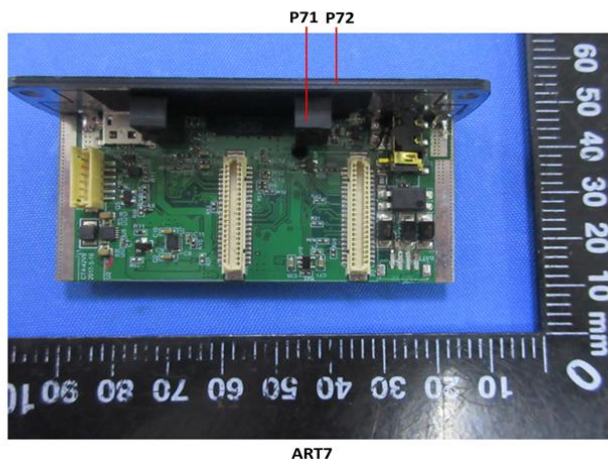
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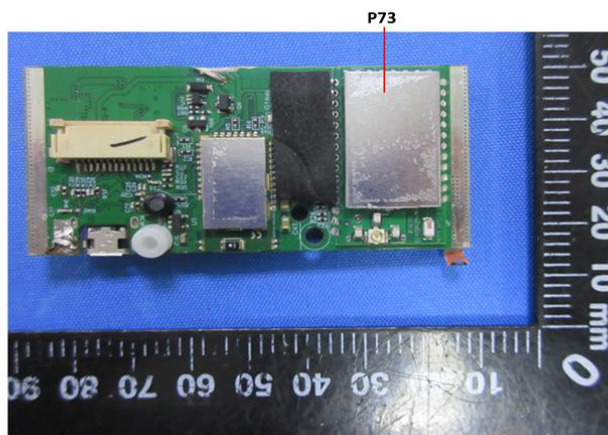
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ART7



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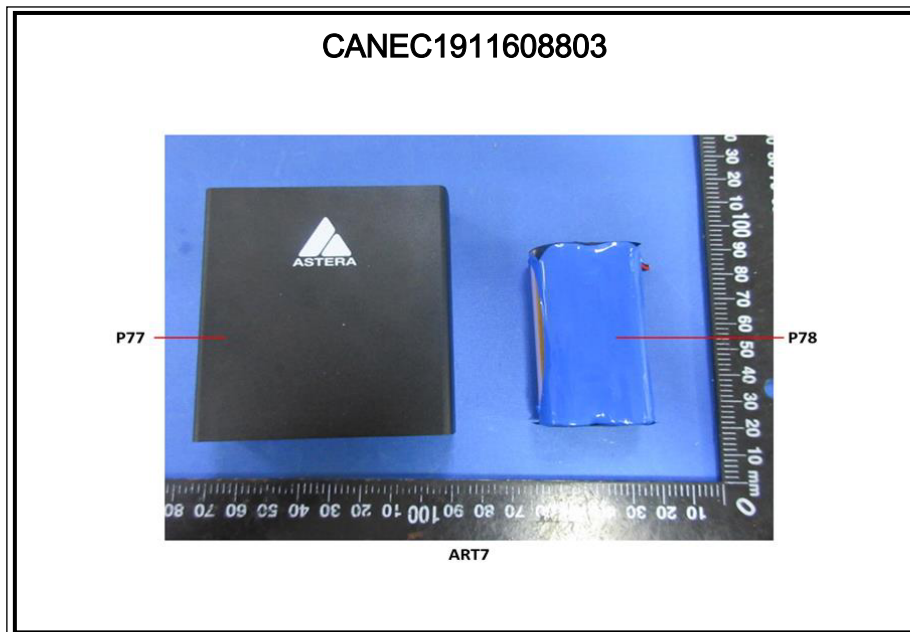
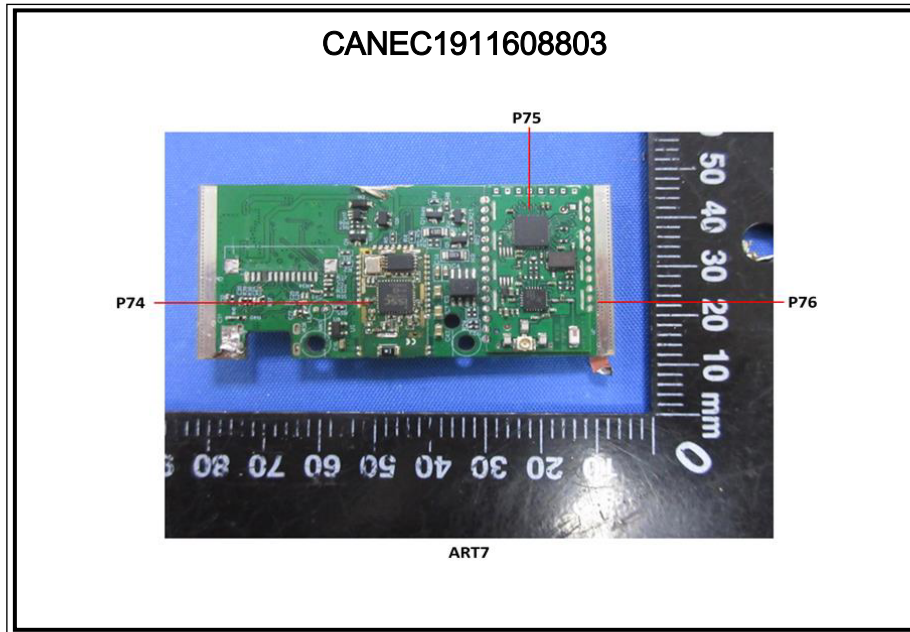
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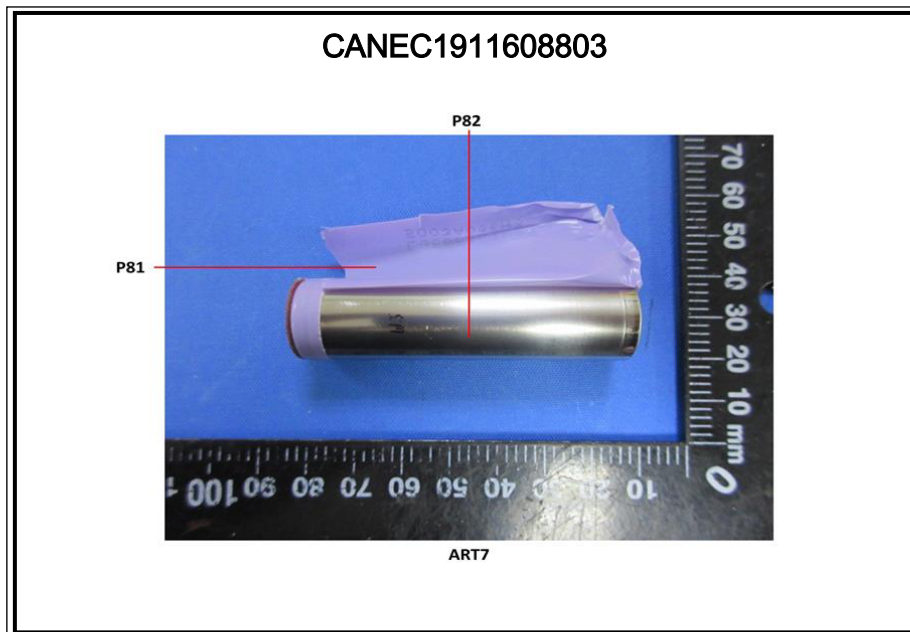
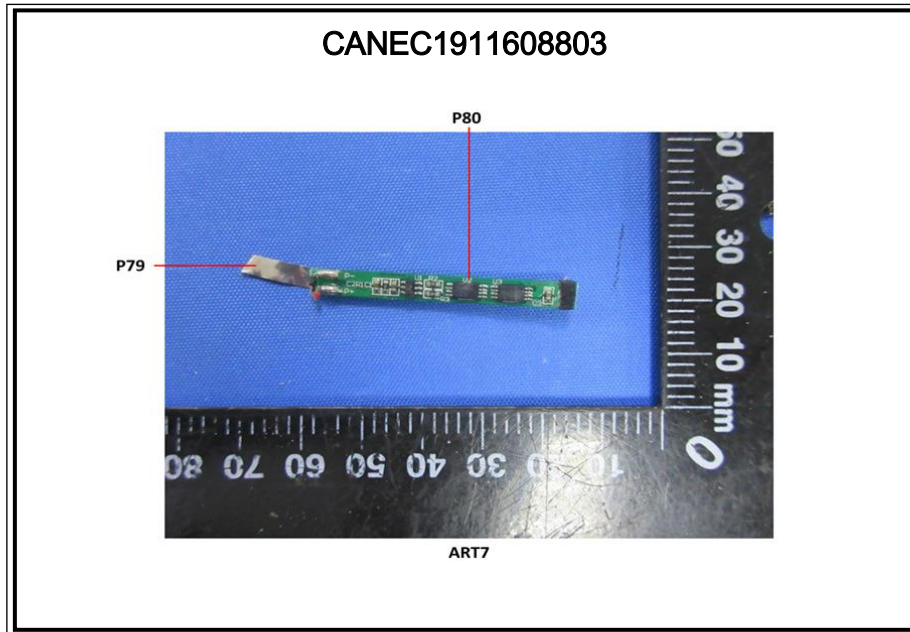


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