

Test Report

No. CANEC1911819903

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 : Titan Powerbox

SGS Job No. : CP19-032725 - SZ
Model No. : FP1-PWB
Date of Sample Received : 20 Jun 2019
Testing Period : 20 Jun 2019 - 30 Sep 2020
Test Requested : Selected test(s) as requested by client.
Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Violet,Shi
Approved Signatory



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Test Sample :

Sample Description :

Component list :

Specimen No.	SGS Sample ID	Description	Group Table
SN1	CAN19-118199.001	Metal group(confirmation rest)	001
SN2	CAN19-118199.002	Nonmetal group	002
SN3	CAN19-118199.003	Metal group(confirmation test)	003
SN4	CAN19-118199.004	Nonmetal group(confirmation test)	004
SN5	CAN19-118199.044	Black surfaced metal screw	001-P2
SN6	CAN19-118199.045	Silvery metal nut	001-P3
SN7	CAN19-118199.046	Silvery metal sheet	001-P7
SN8	CAN19-118199.047	Silvery metal part	001-P8
SN9	CAN19-118199.048	Silvery metal pin	001-P11
SN10	CAN19-118199.049	Silvery metal pin	001-P14
SN11	CAN19-118199.050	Silvery metal pin	001-P15
SN12	CAN19-118199.051	Black surfaced metal sheet	001-P17
SN13	CAN19-118199.052	Black surfaced metal ring	001-P19
SN14	CAN19-118199.053	Black surfaced metal screw	001-P20
SN15	CAN19-118199.054	Silvery metal cover	001-P25
SN16	CAN19-118199.055	Silvery metal frame	001-P27
SN17	CAN19-118199.056	Golden metal part	001-P32
SN18	CAN19-118199.057	Silvery metal terminal	001-P35
SN19	CAN19-118199.058	Silvery metal wire	001-P36
SN20	CAN19-118199.059	Silvery metal rivet	001-P37
SN21	CAN19-118199.060	Silvery metal sheet	001-P38
SN22	CAN19-118199.061	Black surfaced metal frame	001-P44
SN23	CAN19-118199.062	Silvery metal ring	001-P45
SN24	CAN19-118199.063	Silvery metal rod	001-P46
SN25	CAN19-118199.064	Golden metal ring	003-P48
SN26	CAN19-118199.065	Silvery metal sheet	003-P49
SN27	CAN19-118199.066	Silvery metal (spring washer)	003-P50
SN28	CAN19-118199.067	Silvery metal nut	003-P51
SN29	CAN19-118199.068	Silvery metal shell	003-P55
SN30	CAN19-118199.069	Copper-colored metal wire	003-P64
SN31	CAN19-118199.070	Grey body	004-P21

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SN32	CAN19-118199.071	Black body	004-P22
SN33	CAN19-118199.072	Silvery body	004-P23
SN34	CAN19-118199.073	Black "PCB" w/solder	004-P26
SN35	CAN19-118199.074	Green "PCB" w/solder	004-P28
SN36	CAN19-118199.075	Green "PCB" w/solder	004-P31
SN37	CAN19-118199.076	Black body	004-P42
SN38	CAN19-118199.077	Green "PCB" w/solder	004-P52
SN39	CAN19-118199.078	Silvery adhesive plastic sheet w/ black printing	004-P53
SN40	CAN19-118199.079	Black rubber part	004-P54
SN41	CAN19-118199.080	Black plastic part	004-P56
SN42	CAN19-118199.081	Red plastic w/ wire (wire insulation)	004-P57
SN43	CAN19-118199.082	Black plastic (wire insulation)	004-P58
SN44	CAN19-118199.083	Green / yellow plastic (wire insulation)	004-P59
SN45	CAN19-118199.084	Brown plastic (wire insulation)	004-P60
SN46	CAN19-118199.085	Blue plastic (wire insulation)	004-P61
SN47	CAN19-118199.086	Black rubber (cable jacket)	004-P62
SN48	CAN19-118199.087	Grey block (envelopment)	004-P63

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SGS Sample ID	Photo No.	Material Description
001	P2	Black surfaced metal screw
001	P3	Silvery metal nut
001	P7	Silvery metal sheet
001	P8	Silvery metal part
001	P11	Silvery metal pin
001	P14	Silvery metal pin
001	P15	Silvery metal pin
001	P17	Black surfaced metal sheet
001	P19	Black surfaced metal ring
001	P20	Black surfaced metal screw
001	P25	Silvery metal cover
001	P27	Silvery metal frame
001	P32	Golden metal part
001	P35	Silvery metal terminal
001	P36	Silvery metal wire
001	P37	Silvery metal rivet
001	P38	Silvery metal sheet
001	P44	Black surfaced metal frame
001	P45	Silvery metal ring
001	P46	Silvery metal rod
002	P1	Black adhesive plastic sheet w/ white printing
002	P4	Black plastic frame
002	P5	Orange plastic shell
002	P6	Black plastic (heat shrinkable tube)



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SGS Sample ID	Photo No.	Material Description
002	P9	Black plastic frame
002	P10	Orange rubber frame
002	P12	Grey plastic (wire insulation)
002	P13	Black plastic part
002	P16	Grey plastic (wire insulation)
002	P18	Black adhesive rubber sheet
002	P24	Beige plastic housing
002	P29	Black mixed part
002	P30	Black plastic frame
002	P33	Black plastic part
002	P34	Yellow / green plastic (wire insulation)
002	P39	Red plastic (wire insulation)
002	P40	Black plastic (wire insulation)
002	P41	Dk-grey core
002	P43	copper-colored metal wire w/ transparent surface
002	P47	White plastic ring
003	P48	Golden metal ring
003	P49	Silvery metal sheet
003	P50	Silvery metal (spring washer)
003	P51	Silvery metal nut
003	P55	Silvery metal shell
003	P64	Copper-colored metal wire
004	P21	Grey body
004	P22	Black body



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SGS Sample ID	Photo No.	Material Description
004	P23	Silvery body
004	P26	Black "PCB" w/solder
004	P28	Green "PCB" w/solder
004	P31	Green "PCB" w/solder
004	P42	Black body
004	P52	Green "PCB" w/solder
004	P53	Silvery adhesive plastic sheet w/ black printing
004	P54	Black rubber part
004	P56	Black plastic part
004	P57	Red plastic (wire insulation)
004	P58	Black plastic (wire insulation)
004	P59	Green / yellow plastic (wire insulation)
004	P60	Brown plastic (wire insulation)
004	P61	Blue plastic (wire insulation)
004	P62	Black rubber (cable jacket)
004	P63	Grey block (envelopment)

Test Method :

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



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Test Result:

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 substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.045	0.010
I	Diarsenic trioxide*	1327-53-3	0.039	0.010
I	Triethyl arsenate*	15606-95-8	0.089	0.010
III	Boric acid*	-	0.406	0.010
III	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.330	0.010
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.330	0.010
VI	Arsenic acid*	7778-39-4	0.056	0.010
VI	Calcium arsenate*	7778-44-1	0.078	0.010
VII	Diboron trioxide*	1303-86-2	0.229	0.010
XIX	Disodium octaborate*	12008-41-2	0.279	0.010
-	Other tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.034	0.010
XIX	Lead*	7439-92-1	see below confirmation test result	0.010
-	Other tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
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Test Result:

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	see below confirmation test result	0.100
VIII	[Phthalato(2-)]dioxotrilead*	69011-06-9	1.726	0.010
VIII	Dioxobis(stearato)trilead*	12578-12-0	2.577	0.010
VIII	Fatty acids, C16-18, lead salts*	91031-62-8	4.897	0.010
VIII	Lead cyanamidate*	20837-86-9	1.579	0.010
VIII	Lead dinitrate*	10099-74-8	2.098	0.010
VIII	Lead monoxide*	1317-36-8	1.414	0.010
VIII	Lead oxide sulfate*	12036-76-9	1.668	0.010
VIII	Lead tetroxide (orange lead)*	1314-41-6	1.448	0.010
VIII	Lead titanium trioxide*	12060-00-3	1.920	0.010
VIII	Lead titanium zirconium oxide*	12626-81-2	2.194	0.010
VIII	Pentalead tetraoxide sulphate*	12065-90-6	1.515	0.010
VIII	Pyrochlore, antimony lead yellow*	8012-00-8	2.439	0.010
VIII	Sulfurous acid, lead salt, dibasic*	62229-08-7	1.674	0.010
VIII	Tetralead trioxide sulphate*	12202-17-4	1.541	0.010
VIII	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	1.638	0.010
VIII	Trilead dioxide phosphonate*	12141-20-7	1.549	0.010
X	Lead di(acetate)*	301-04-2	2.060	0.010
XIX	Lead*	7439-92-1	see below confirmation test result	0.010
-	Other tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	044 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	045 Concentration (%)	RL (%)



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-	All tested substance	-	ND	-
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Test Result:

Batch	Substance Name	CAS No.	046 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	047 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	048 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.012	0.005
XIX	Lead*	7439-92-1	1.409	0.005

Test Result:

Batch	Substance Name	CAS No.	049 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.010	0.005
XIX	Lead*	7439-92-1	2.727	0.005

Test Result:

Batch	Substance Name	CAS No.	050 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.020	0.005
-	Other tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	051 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	052 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.023	0.005
-	Other tested substance	-	ND	-

Test Result:

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Test Result:

Batch	Substance Name	CAS No.	053 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	054 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	055 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	056 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.016	0.005
XIX	Lead*	7439-92-1	2.911	0.005

Test Result:

Batch	Substance Name	CAS No.	057 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.006	0.005
-	Other tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	058 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	059 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	060 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

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Test Result:

Batch	Substance Name	CAS No.	061 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	062 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.009	0.005
XIX	Lead*	7439-92-1	2.852	0.005

Test Result:

Batch	Substance Name	CAS No.	063 Concentration (%)	RL (%)
I	Diarsenic pentaoxide*	1303-28-2	0.009	0.005
XIX	Lead*	7439-92-1	2.267	0.005

Test Result:

Batch	Substance Name	CAS No.	064 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	2.413	0.005

Test Result:

Batch	Substance Name	CAS No.	065 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	066 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	067 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	068 Concentration (%)	RL (%)
-	All tested substance	-	ND	-



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Test Result:

Batch	Substance Name	CAS No.	069 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	070 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	071 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.425	0.005
-	Other tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	072 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	073 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	074 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.007	0.005
-	Other tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	075 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.662	0.005
-	Other tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	076 Concentration (%)	RL (%)
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-	All tested substance	-	ND	-
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Test Result:

Batch	Substance Name	CAS No.	077 Concentration (%)	RL (%)
VIII	N,N-dimethylformamide	68-12-2	0.150	0.050
-	Other tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	078 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	079 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	080 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	081 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	082 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	083 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	084 Concentration (%)	RL (%)
-	All tested substance	-	ND	-



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Test Result:

Batch	Substance Name	CAS No.	085 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	086 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Test Result:

Batch	Substance Name	CAS No.	087 Concentration (%)	RL (%)
-	All tested substance	-	ND	-

Notes :

1. The table above only shows detected substances, and substances that below RL are not reported. Please refer to Appendix for the full list of tested substances.
2. RL = Reporting Limit (Test data will be shown if it \geq RL. RL is not regulatory limit.).
ND = Not detected (lower than RL), ND is denoted on the compound.
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 substances:

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	0.100
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	0.100
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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Appendix

Full list of tested substances:

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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Full list of tested substances:

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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Full list of tested substances:

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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Appendix

Full list of tested substances:

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	Henicosfluoroundecanoic acid	2058-94-8	0.100
VIII	111	Heptacosfluorotetradecanoic 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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Appendix

Full list of tested substances:

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 substances:

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	Dihexyl 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	Trixylyl phosphate	25155-23-1	0.100
XI	152	1,2-Benzenedicarboxylic acid, dihexyl 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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Full list of tested substances:

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 substances:

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 substances:

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 ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.100

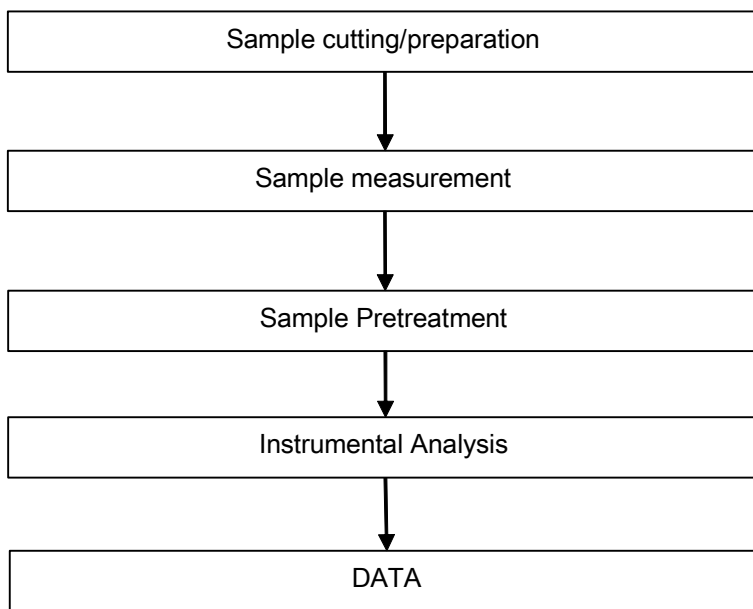


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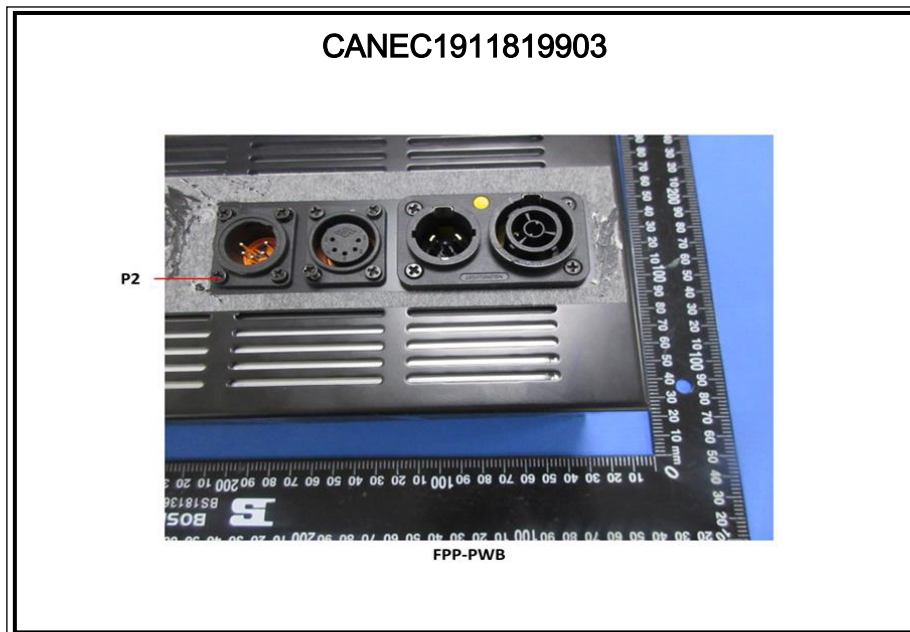
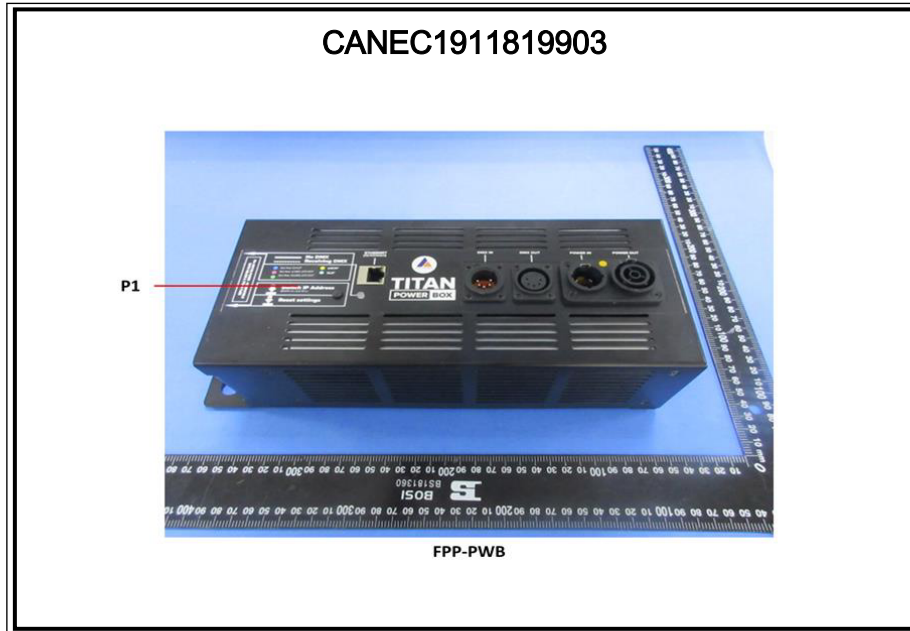
SVHC Testing Flow Chart



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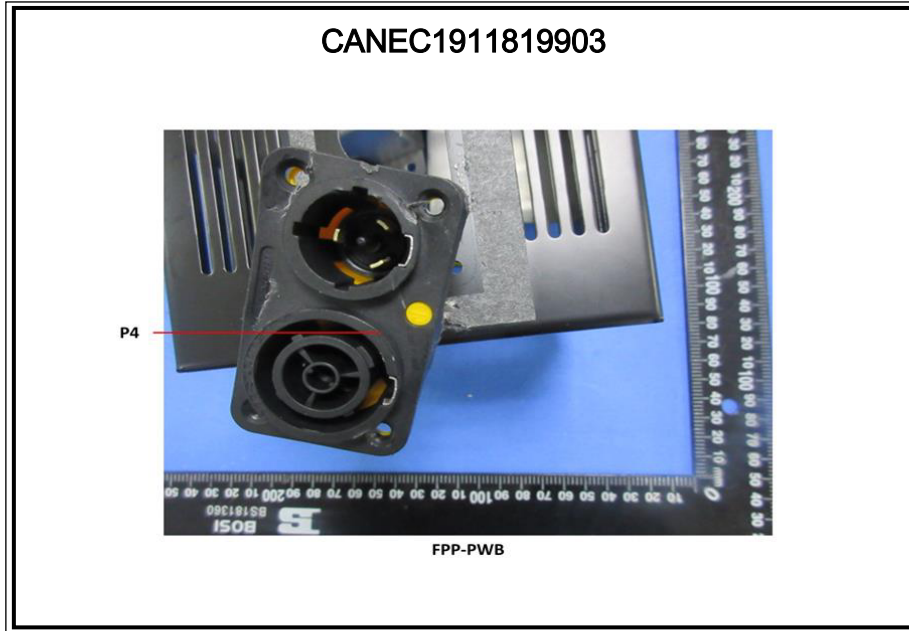
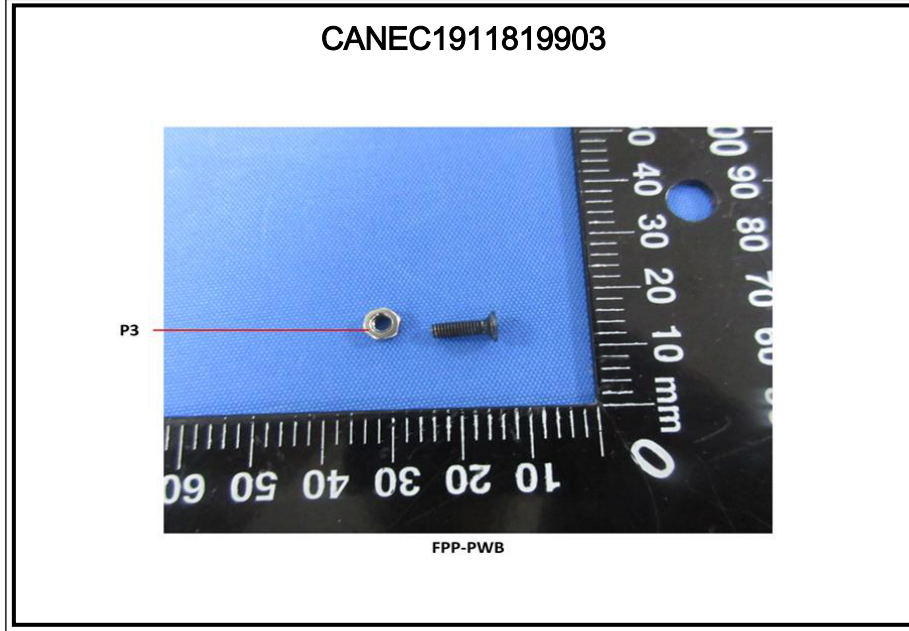
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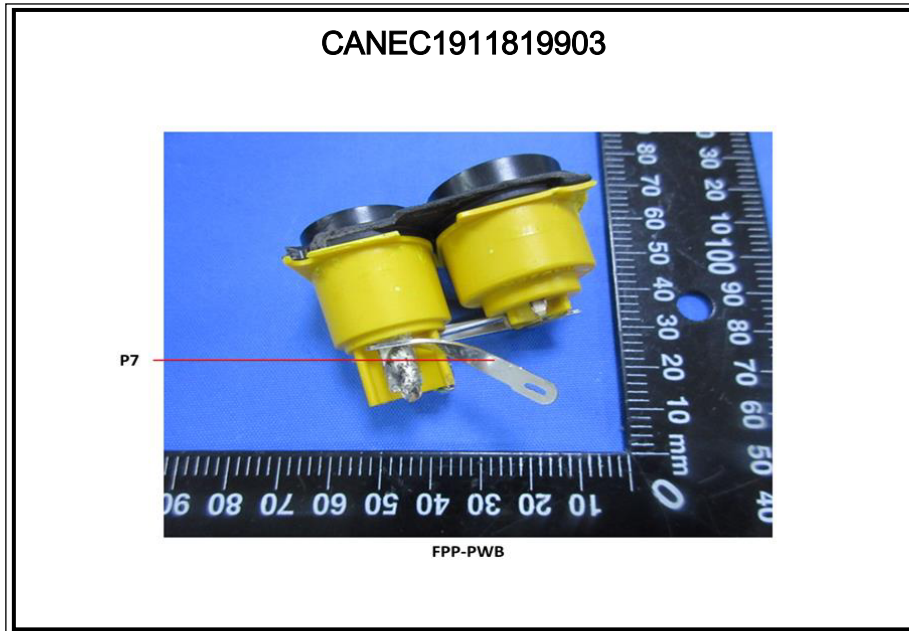
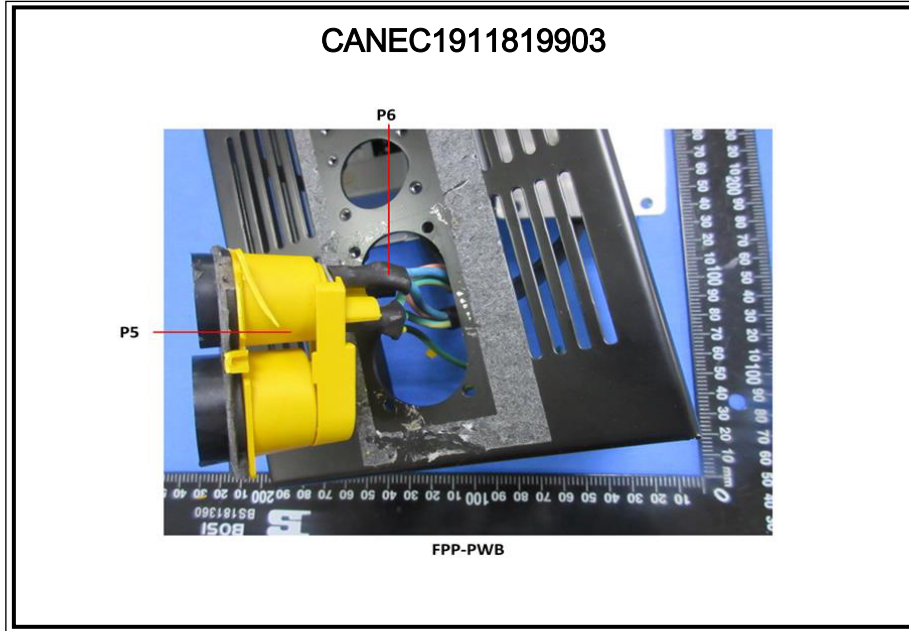
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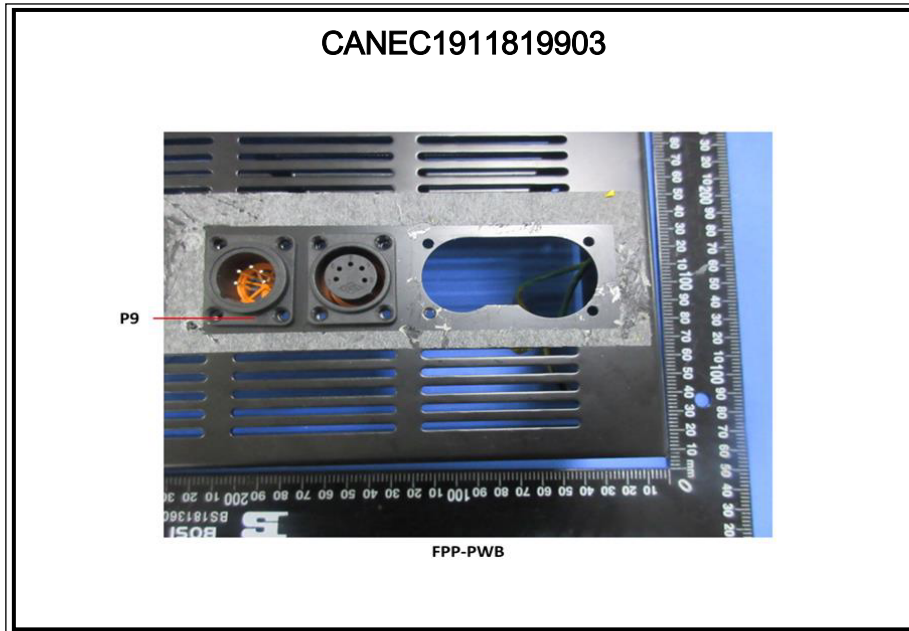
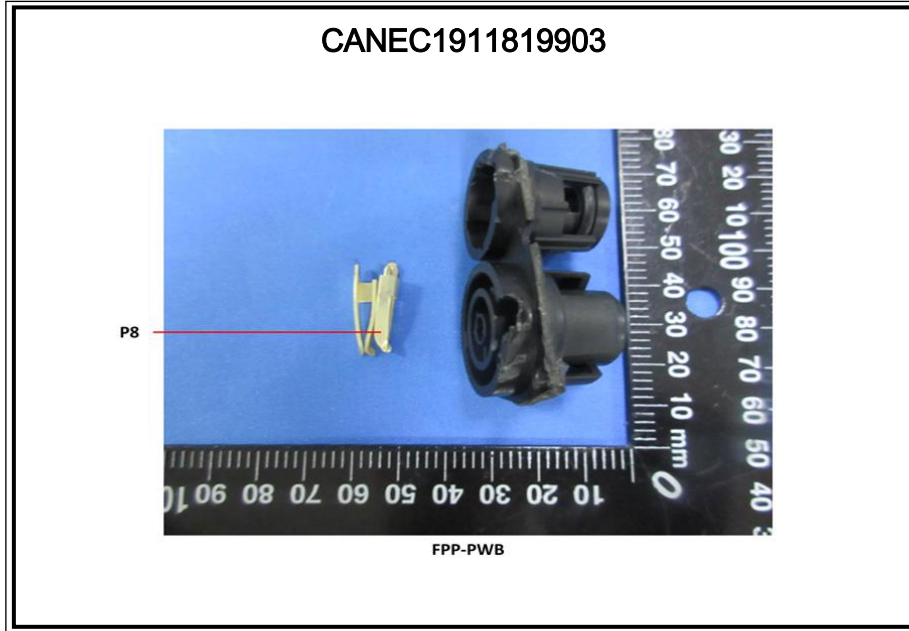




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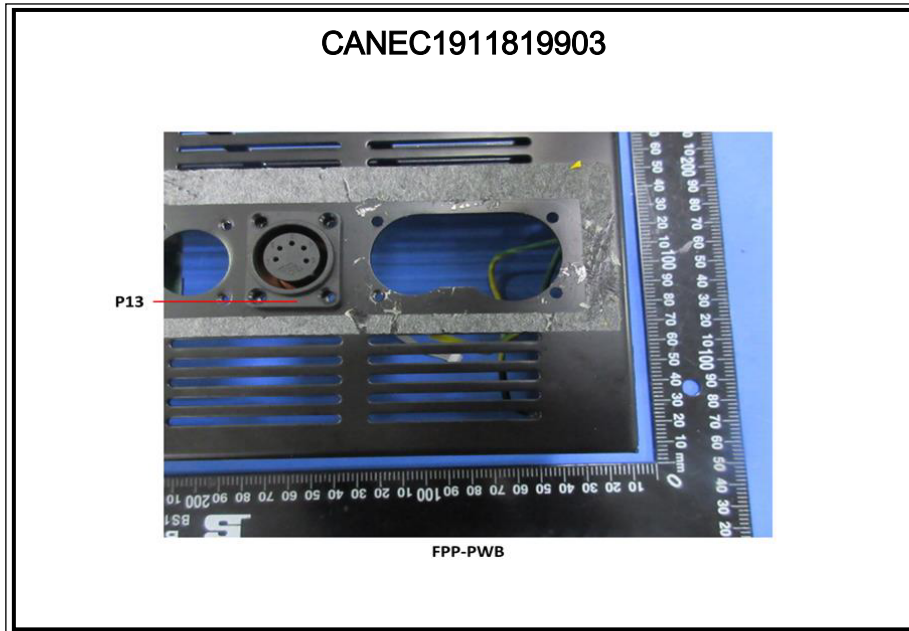
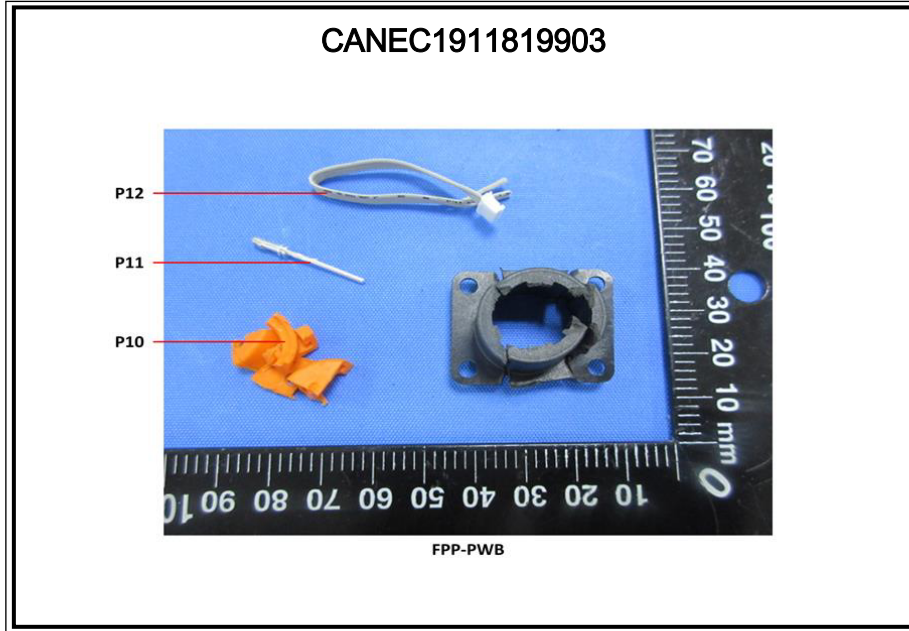
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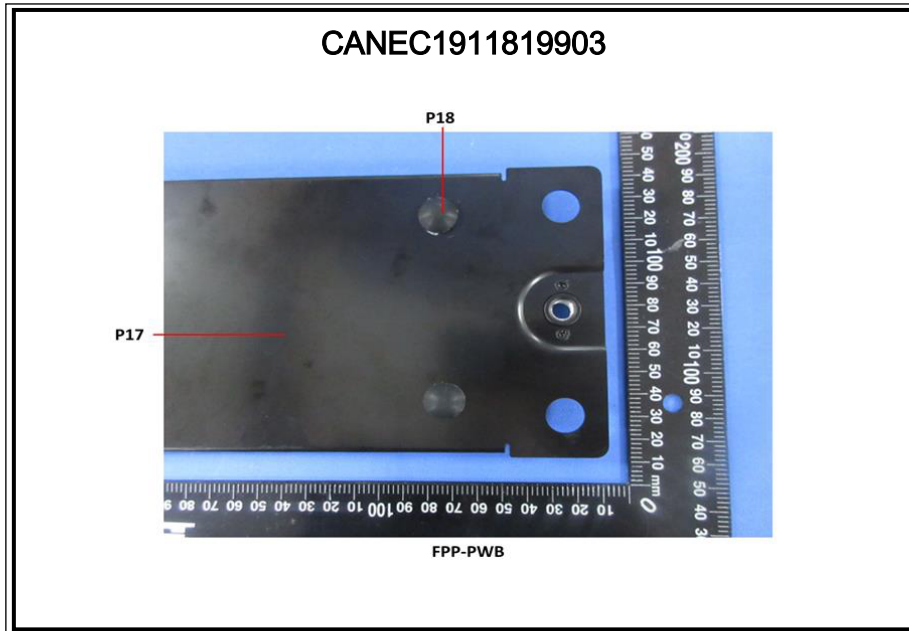
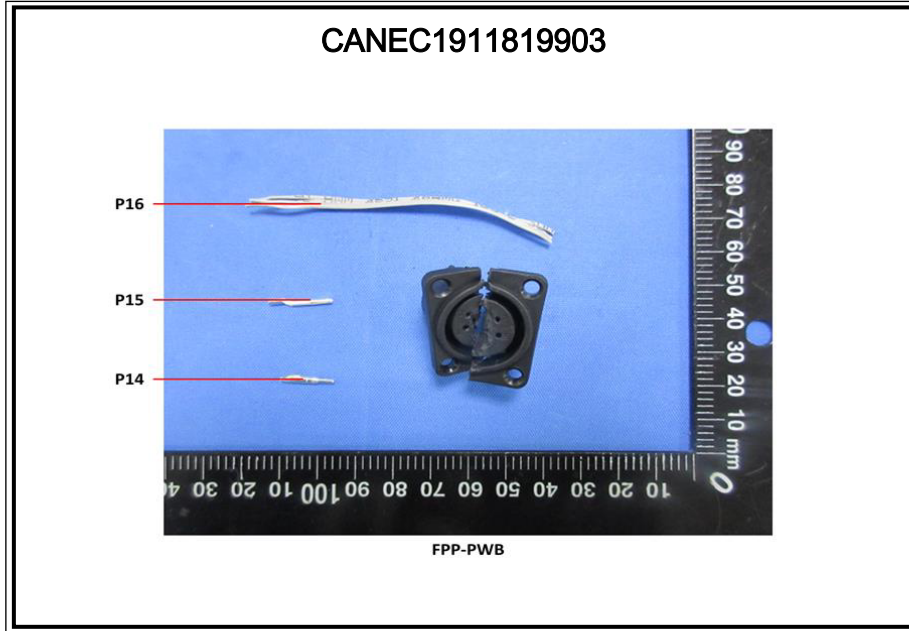
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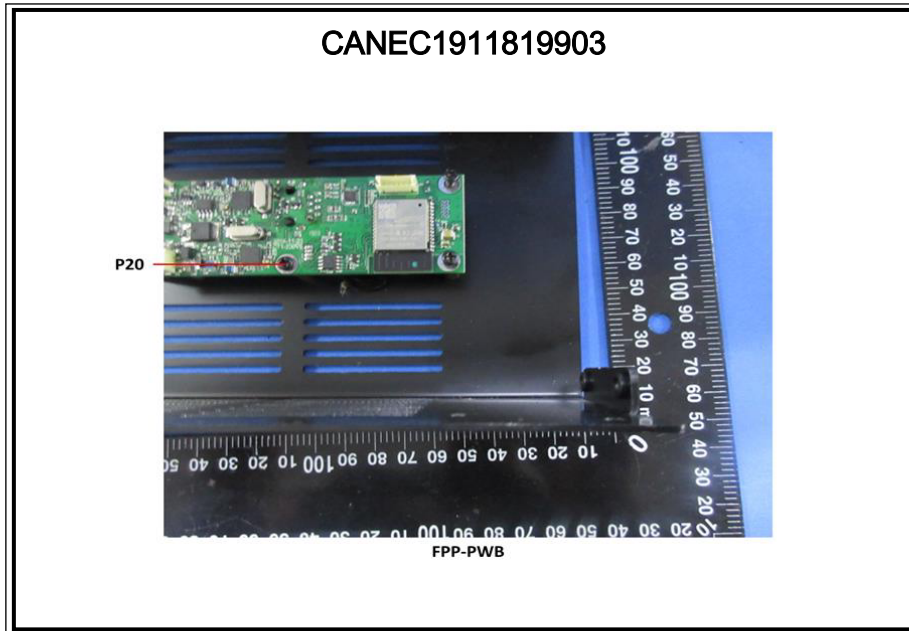
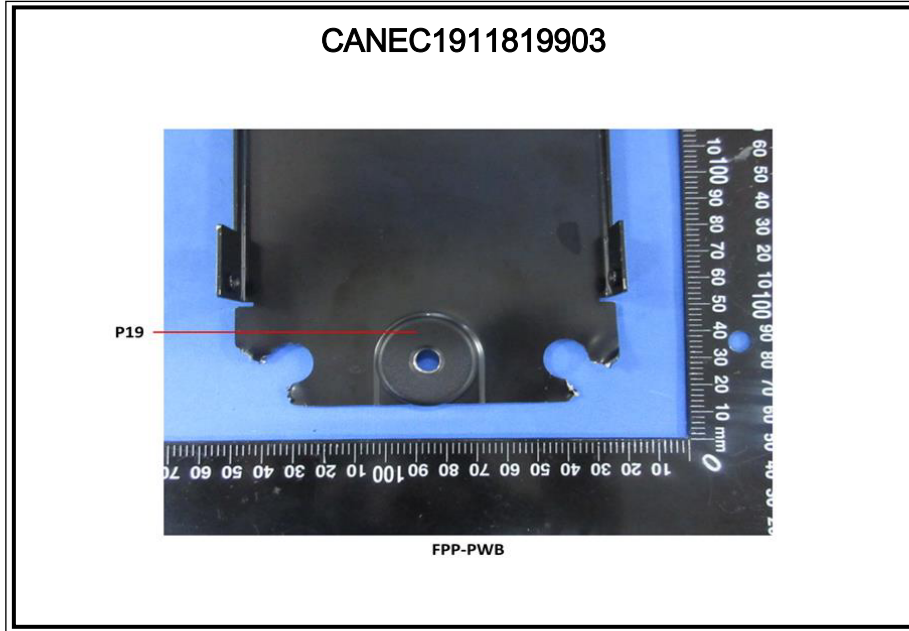
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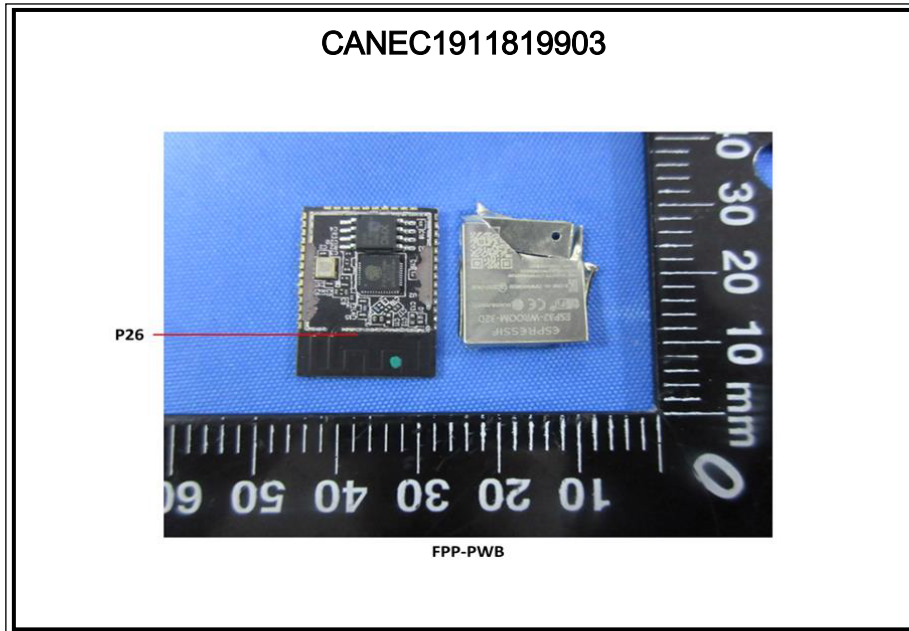
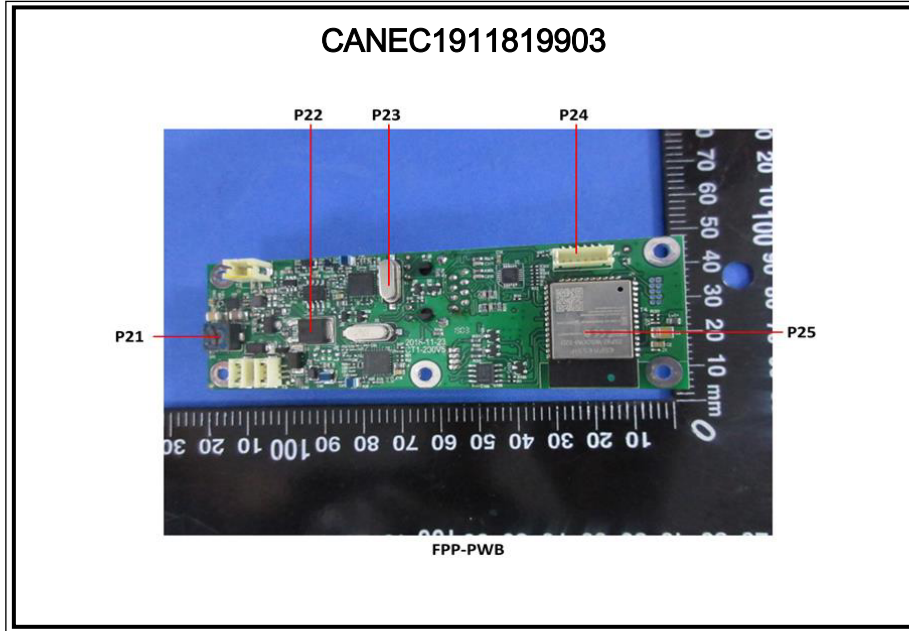
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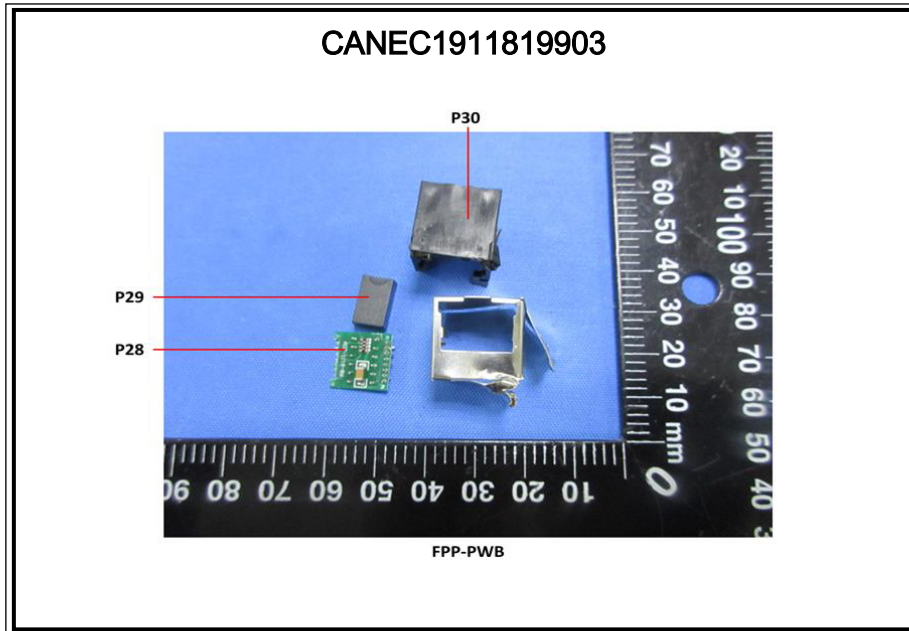
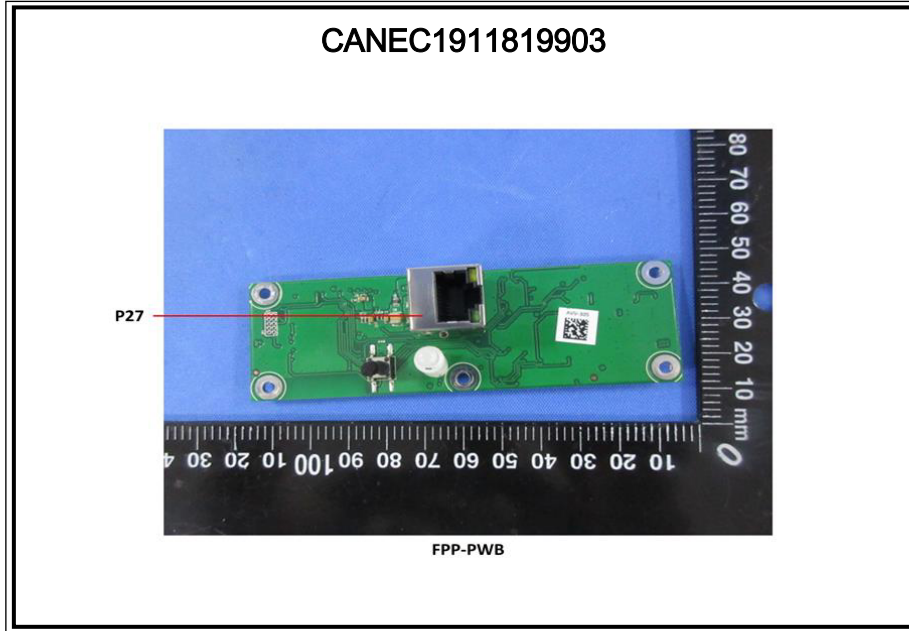
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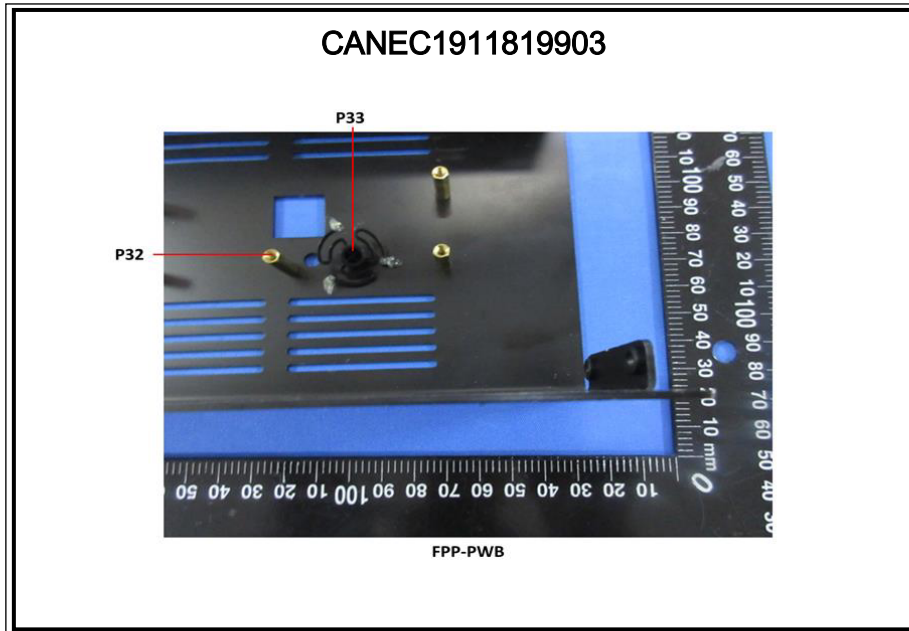
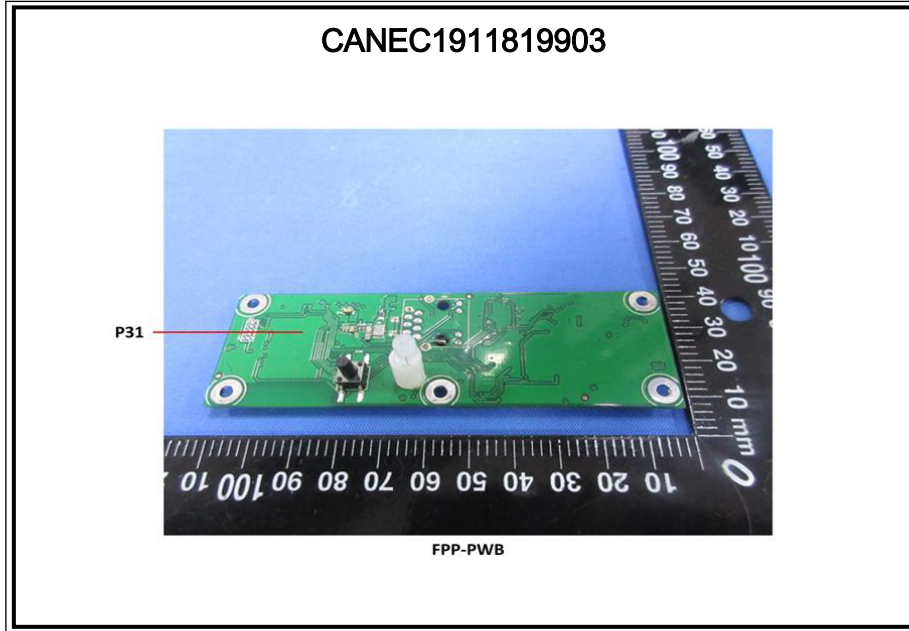
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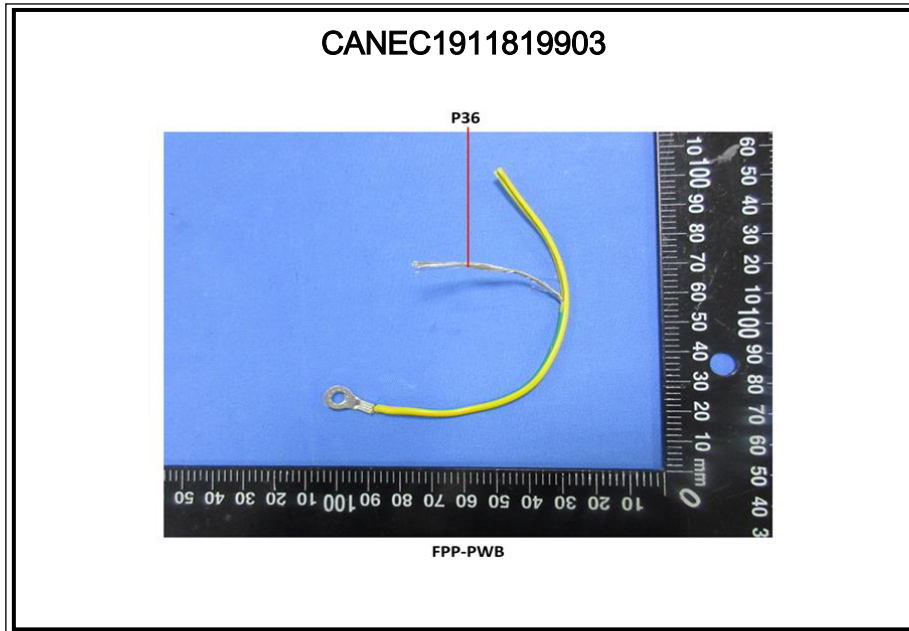
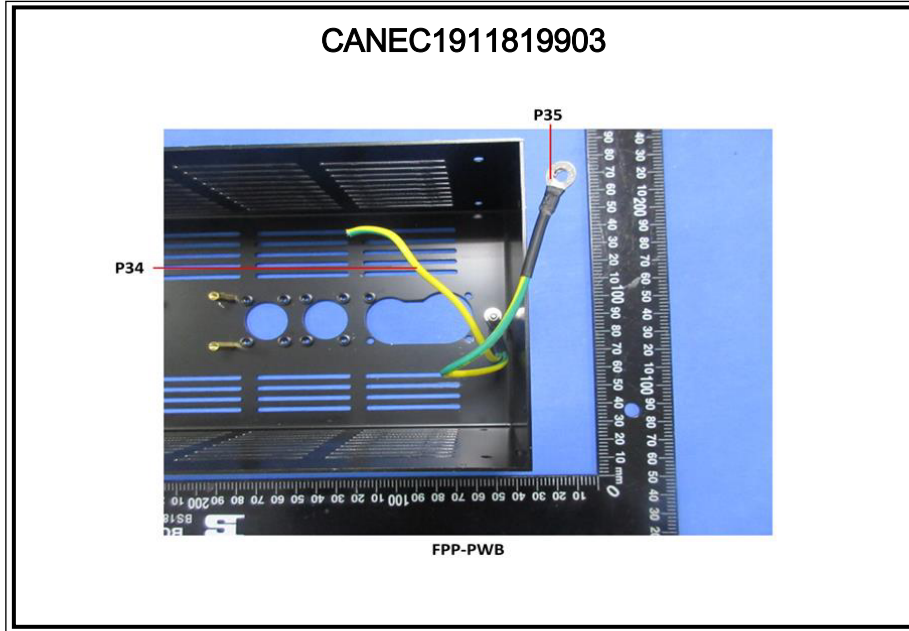
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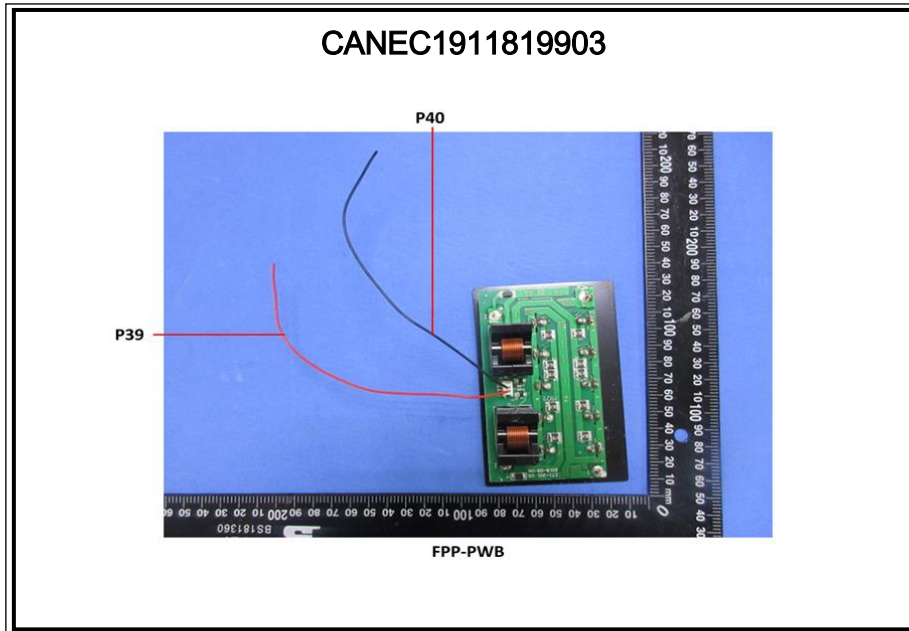
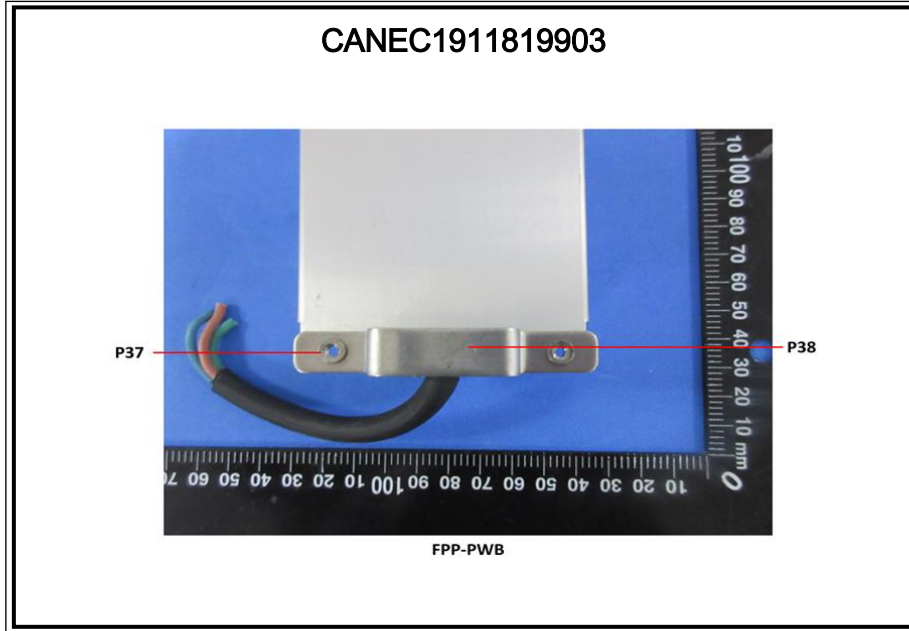
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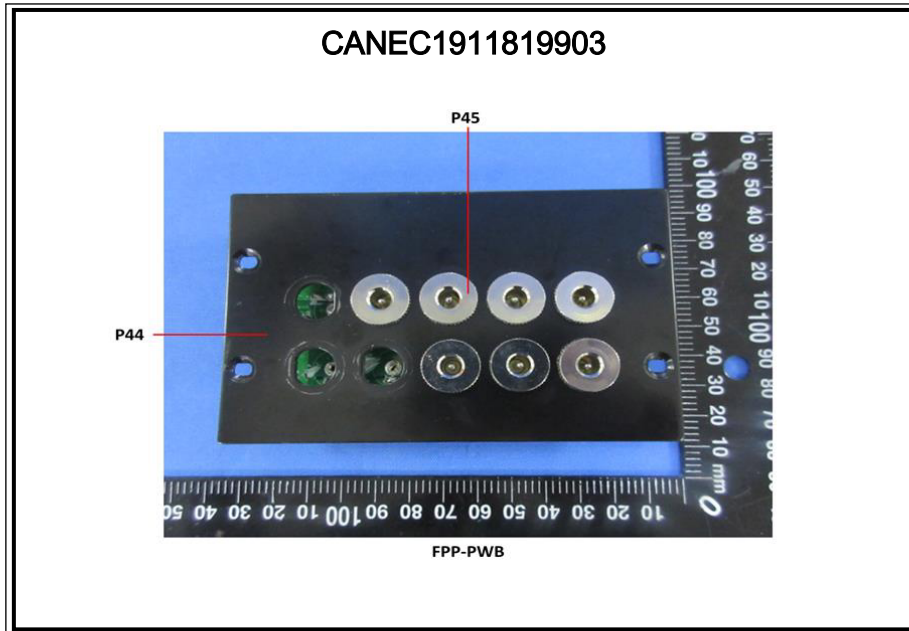
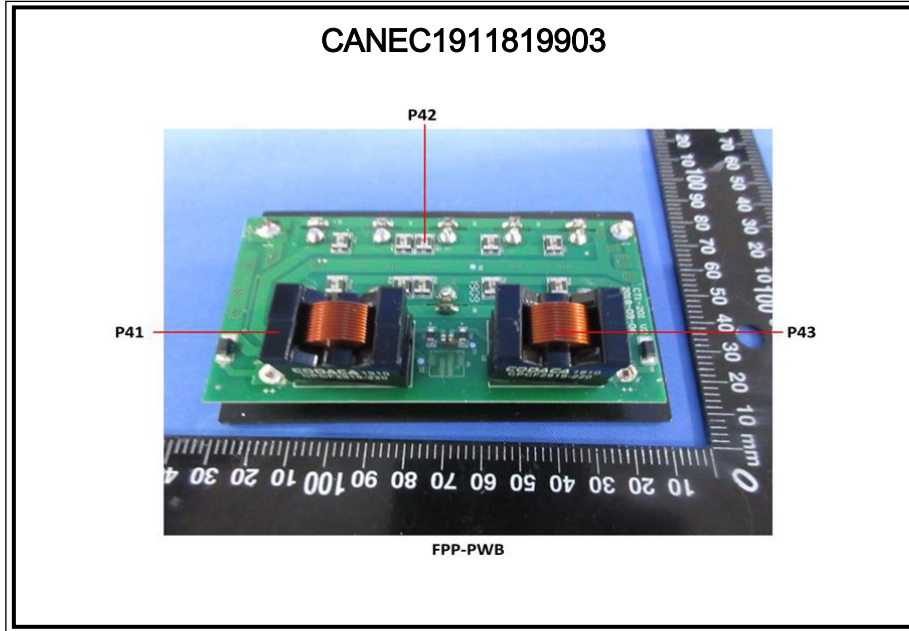
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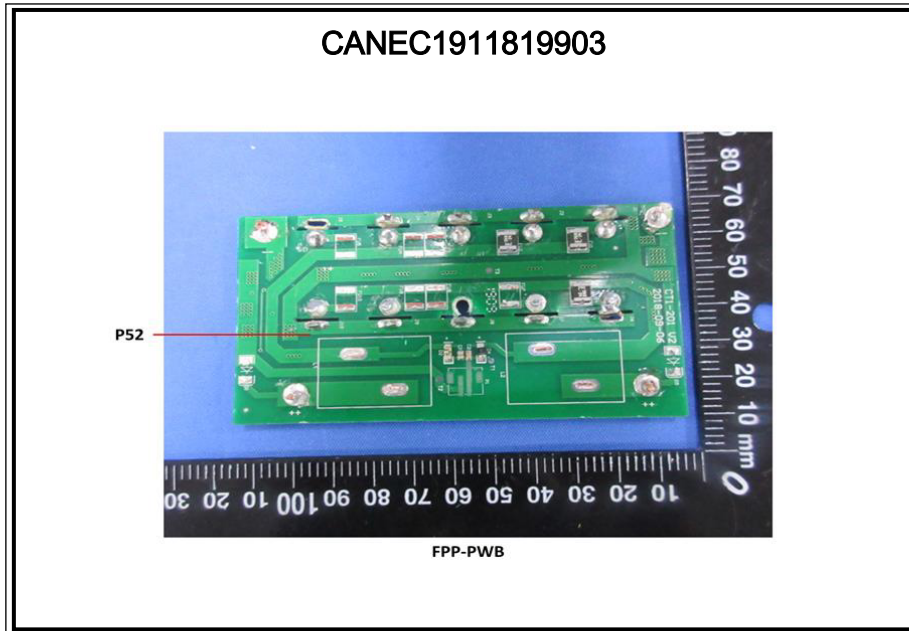
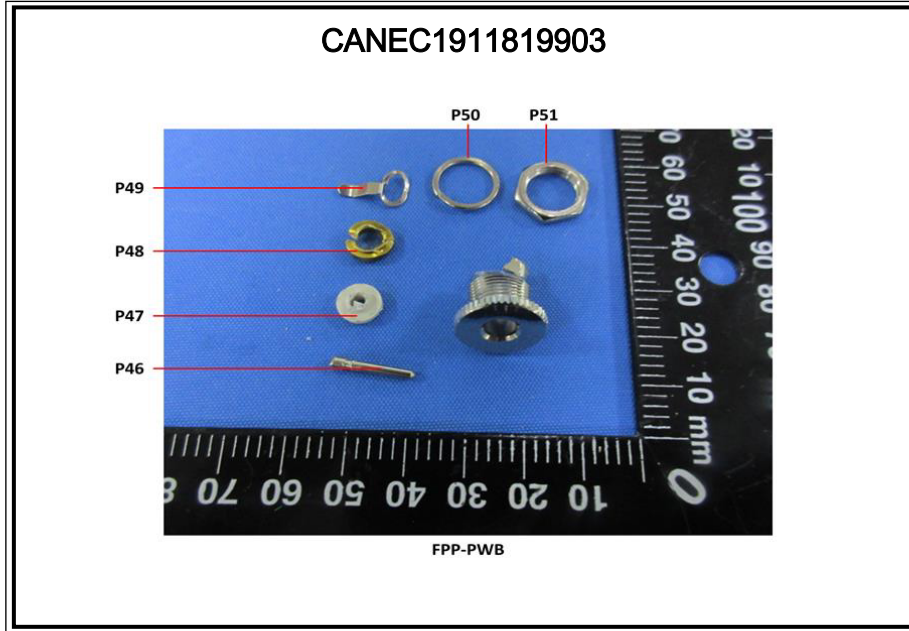
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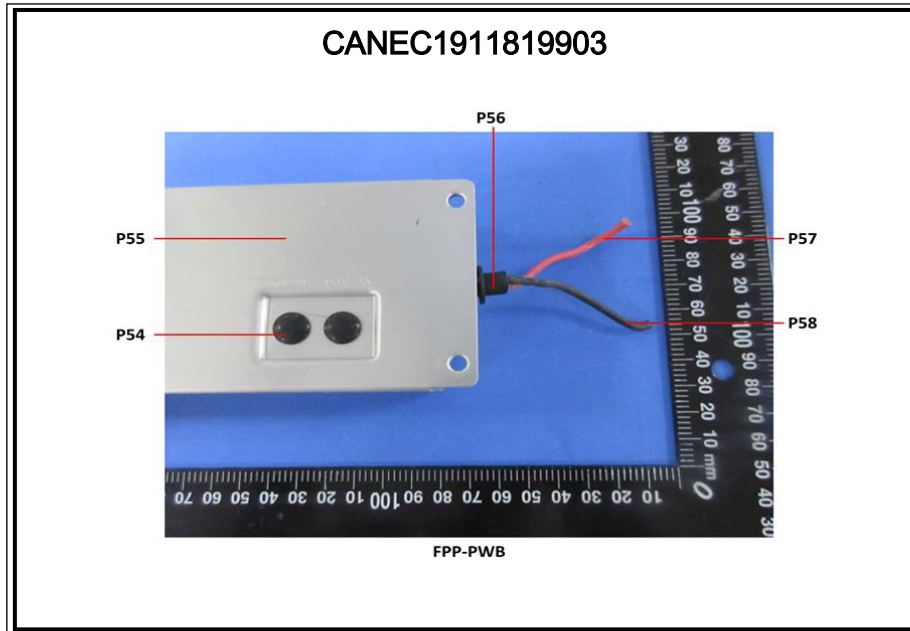
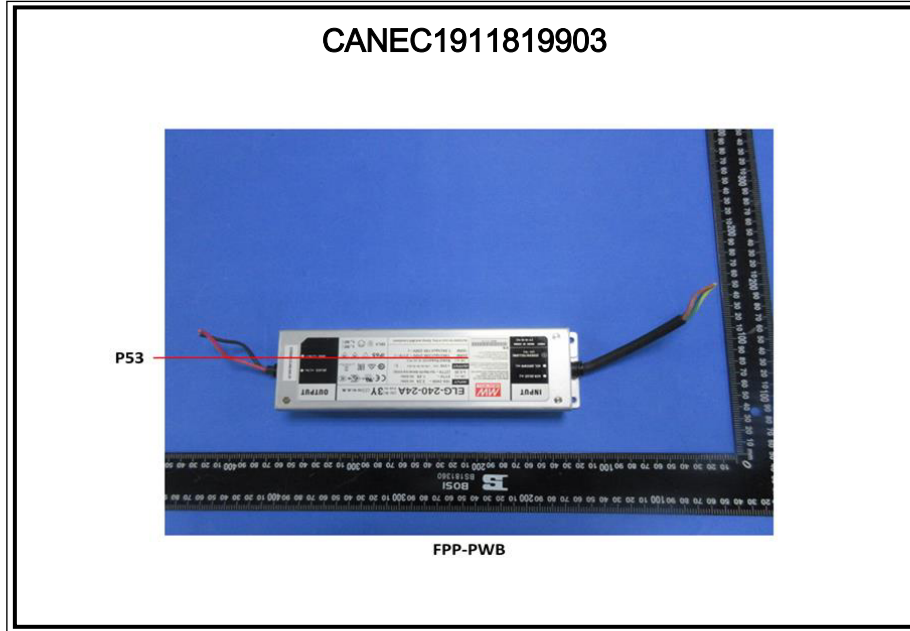
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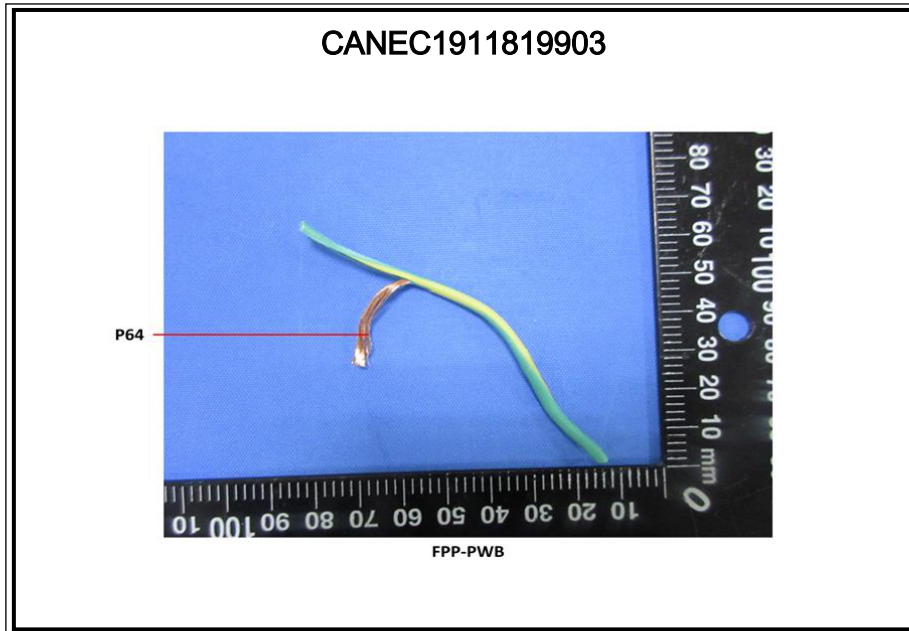
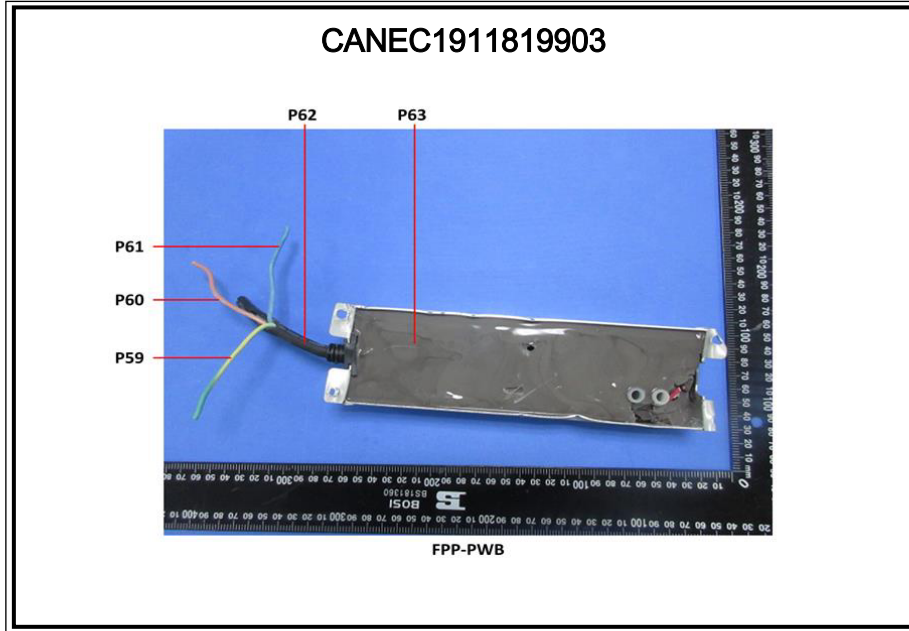




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