

Test Report

No.: SHAEC24002370701

Date: Mar 11, 2024

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Client Name: Renac Power Technology Co., Ltd.

Client Address: Block C-12, No. 20 Datong Road, Comprehensive Bonded Zone, Suzhou Hi-Tech District, Suzhou, China

Sample Name: TB-H1-3.74

Client Ref. Information: TB-H1-3.74, TB-H1-7.48, TB-H1-11.23, TB-H1-14.97, TB-H1-18.7

The above sample(s) and information were provided by the client.

SGS Job No.: SHP24-003404

Sample Receiving Date: Jan 31, 2024

Testing Period: Jan 31, 2024 ~ Mar 01, 2024

Test Requested: Select test(s) as requested by the client.

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

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

Test Requirement	Conclusion
Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Tin Screening for Organotin	See Result
Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organotin compounds	Pass
Regulation (EU) No 2023/1542 Article 6(1), Entry 50 of Regulation (EU) 2021/1199 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)	Pass
Regulation (EU) No 2023/1542 Article 6(1), Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - C9-C14 PFCAs, their salts and C9-C14 PFCa-related substances	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jenny Lan
Approved Signatory

scan to see the report



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Test Result(s):

Photo of Submitted Sample



SGS authenticate the photo on original report only

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0023707-0001.C001	Black plastic
SN2	A2	SHA24-0023707-0001.C002	Black plastic
SN3	A3	SHA24-0023707-0001.C003	Green plastic
SN4	A4	SHA24-0023707-0001.C004	Yellow rubber
SN5	A5	SHA24-0023707-0001.C005	Black plastic
SN6	A6	SHA24-0023707-0001.C006	Black plastic
SN7	A7	SHA24-0023707-0001.C007	Black plastic
SN8	A8	SHA24-0023707-0001.C008	Black rubber
SN9	A9	SHA24-0023707-0001.C009	Black plastic
SN10	A10	SHA24-0023707-0001.C010	Black rubber
SN11	A11	SHA24-0023707-0001.C011	Black plastic
SN12	A12	SHA24-0023707-0001.C012	Black plastic
SN13	A13	SHA24-0023707-0001.C013	Green plastic
SN14	A14	SHA24-0023707-0001.C014	Black plastic
SN15	A15	SHA24-0023707-0001.C015	Black plastic
SN16	A16	SHA24-0023707-0001.C016	Black plastic
SN17	A17	SHA24-0023707-0001.C017	Black plastic
SN18	A18	SHA24-0023707-0001.C018	Pink plastic
SN19	A19	SHA24-0023707-0001.C019	Black plastic
SN20	A20	SHA24-0023707-0001.C020	Black foam



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SN ID	Sample No.	SGS Sample ID	Description
SN21	A21	SHA24-0023707-0001.C021	Transparent plastic
SN22	A22	SHA24-0023707-0001.C022	Black plastic
SN23	A23	SHA24-0023707-0001.C023	Black plastic
SN24	A24	SHA24-0023707-0001.C024	Black plastic
SN25	A25	SHA24-0023707-0001.C025	Green PCB
SN26	A26	SHA24-0023707-0001.C026	Black rubber
SN27	A27	SHA24-0023707-0001.C027	Black plastic
SN28	A28	SHA24-0023707-0001.C028	Black plastic
SN29	A29	SHA24-0023707-0001.C029	Red plastic
SN30	A30	SHA24-0023707-0001.C030	Black plastic
SN31	A31	SHA24-0023707-0001.C031	Gray plastic
SN32	A32	SHA24-0023707-0001.C032	Gray plastic
SN33	A33	SHA24-0023707-0001.C033	Black plastic
SN34	A34	SHA24-0023707-0001.C034	Silvery battery
SN35	A35	SHA24-0023707-0001.C035	Silvery battery
SN36	A1+A2+A3	SHA24-0023707-0002	Black plastic + Black plastic + Green plastic
SN37	A4+A5+A6	SHA24-0023707-0003	Yellow rubber + Black plastic + Black plastic
SN38	A7+A8+A9	SHA24-0023707-0004	Black plastic + Black rubber + Black plastic
SN39	A10+A11+A12	SHA24-0023707-0005	Black rubber + Black plastic + Black plastic
SN40	A13+A14+A15	SHA24-0023707-0006	Green plastic + Black plastic + Black plastic
SN41	A16+A17+A18	SHA24-0023707-0007	Black plastic + Black plastic + Pink plastic
SN42	A19+A26	SHA24-0023707-0008	Black plastic + Black rubber
SN43	A27+A30	SHA24-0023707-0009	Black plastic + Black plastic
SN44	A4+A14	SHA24-0023707-0010	Yellow rubber + Black plastic
SN45	A18+A20	SHA24-0023707-0011	Pink plastic + Black foam
SN46	A25+A26	SHA24-0023707-0012	Green PCB + Black rubber
SN47	A27+A28	SHA24-0023707-0013	Black plastic + Black plastic
SN48	A31+A33	SHA24-0023707-0014	Gray plastic + Black plastic

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 -Total Tin Screening for Organotin

Test Method: SGS In-house method, analysis was performed by EDXRF.

Test Item(s)	Unit(s)	MDL	A1	A2	A3
Tin (Sn)	mg/kg	700	<700	<700	<700



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Test Item(s)	Unit(s)	MDL	A4	A5	A6
Tin (Sn)	mg/kg	700	<700	<700	<700
Test Item(s)	Unit(s)	MDL	A7	A8	A9
Tin (Sn)	mg/kg	700	<700	<700	<700
Test Item(s)	Unit(s)	MDL	A10	A11	A12
Tin (Sn)	mg/kg	700	<700	<700	<700
Test Item(s)	Unit(s)	MDL	A13	A14	A15
Tin (Sn)	mg/kg	700	<700	<700	<700
Test Item(s)	Unit(s)	MDL	A16	A17	A18
Tin (Sn)	mg/kg	700	<700	<700	<700
Test Item(s)	Unit(s)	MDL	A19	A25	A26
Tin (Sn)	mg/kg	700	<700	<700	<700
Test Item(s)	Unit(s)	MDL	A27	A28	A29
Tin (Sn)	mg/kg	700	<700	>700#	>700#
Test Item(s)	Unit(s)	MDL	A30		
Tin (Sn)	mg/kg	700	<700		

Notes:

- (1) Confirmation test of organic tin is not required in case of Total Tin, after conversion, does not exceed the Organotin by weight of Tin requirement as specified in Entry 20 of Annex XVII.
- (2) #=If the Total Tin content is over 700 mg/kg, it is strongly recommended to perform further Organotin test to check the compliance with Entry 20 of REACH ANNEX XVII.

Regulation (EU) No 2023/1542 Article 6(1), Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organotin compounds

Test Method: With reference to ISO 17353:2004, analysis was performed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A28	A29
Tributyltin(TBT) by Weight of Tin	-	%	0.01	ND	ND
Tricyclohexyltin(TCyT) by Weight of Tin	-	%	0.01	ND	ND
Trimethyltin(TMT) by Weight of Tin	-	%	0.01	ND	ND
Trioctyltin(TOT) by Weight of Tin	-	%	0.01	ND	ND
Triphenyltin(TPhT) by Weight of Tin	-	%	0.01	ND	ND
Tripropyltin (TPT) by weight of Tin	-	%	0.01	ND	ND
Σ of Tri substituted organotin compounds by Weight of Tin	0.1	%	-	ND	ND
Diocetyl tin(DOT) by Weight of Tin	0.1	%	0.01	ND	ND
Dibutyltin(DBT) by Weight of Tin	0.1	%	0.01	ND	ND
Conclusion				Pass	Pass



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Regulation (EU) No 2023/1542 Article 6(1), Entry 50 of Regulation (EU) 2021/1199 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A2+A3	A4+A5+A6	A7+A8+A9
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND	ND	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND	ND	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND	ND	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND	ND	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND	ND	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND	ND	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND	ND	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A10+A11+A12	A13+A14+A15	A16+A17+A18
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND	ND	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND	ND	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND	ND	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND	ND	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND	ND	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND	ND	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND	ND	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A19+A26	A27+A30
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A19+A26	A27+A30
Benzo(k)Fluorant hene(BkF)	207-08-9	1.0	mg/kg	0.1	ND	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND	ND
Conclusion					Pass	Pass

Regulation (EU) No 2023/1542 Article 6(1), Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A34	A35	A4+A14
C9-C14 PFCA, their salts							
Perfluorononane Acid (PFNA), its salts^	375-95-1	-	µg/kg	10	ND	ND	ND
Perfluorodecane Acid (PFDA), its salts^	335-76-2	-	µg/kg	10	ND	ND	ND
Perfluoroundecanoic Acid (PFUnDA), its salts^	2058-94-8	-	µg/kg	10	ND	ND	ND
Perfluorododecanoic Acid (PFDoDA), its salts^	307-55-1	-	µg/kg	10	ND	ND	ND
Perfluorotridecanoic Acid (PFTrDA), its salts^	72629-94-8	-	µg/kg	10	ND	ND	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	-	µg/kg	10	ND	ND	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	-	µg/kg	10	ND	ND	ND
Sum of C9-C14 PFCA, their salts	-	25	µg/kg	-	ND	ND	ND
C9-C14 PFCA-related substances							
Perfluorodecane Sulfonate (PFDS), its salts^	335-77-3	-	µg/kg	10	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A34	A35	A4+A14
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	-	µg/kg	10	ND	ND	ND
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	-	µg/kg	100	ND	ND	ND
Perfluorononane sulfonic acid (PFNS), its salts^	68259-12-1	-	µg/kg	10	ND	ND	ND
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1 / 441296-91-9 (anion)	-	µg/kg	10	ND	ND	ND
Perfluorododecane sulfonic acid (PFDoDS), its salts^	79780-39-5	-	µg/kg	10	ND	ND	ND
Perfluorotridecane sulfonic acid (PFTrDS), its salts^	791563-89-8	-	µg/kg	10	ND	ND	ND
10:2 Fluorotelomerphosphatediester (10:2 diPAP)	1895-26-7	-	µg/kg	100	ND	ND	ND
Perfluorodecyl iodide (PFDI)	423-62-1	-	µg/kg	100	ND	ND	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	-	µg/kg	100	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A34	A35	A4+A14
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts^	39108-34-4	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	µg/kg	100	ND	ND	ND
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA), its salts^	27854-31-5	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	-	µg/kg	100	ND	ND	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	-	µg/kg	100	ND	ND	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts^	678-41-1	-	µg/kg	10	ND	ND	ND
2H,2H,3H,3H-Perfluoroundecanoic Acid (H ₄ PFUnDA/ 8:3 FTCA), its salts^	34598-33-9	-	µg/kg	10	ND	ND	ND
1H,1H,2H-Heptafluoro-1-decene (PFDE)	21652-58-4	-	µg/kg	100	ND	ND	ND
Sum of C9-C14 PFCA-related substances	-	260	µg/kg	-	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A18+A20	A25+A26	A27+A28
C9-C14 PFCA, their salts							



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A18+A20	A25+A26	A27+A28
Perfluorononane Acid (PFNA), its salts^	375-95-1	-	µg/kg	10	ND	ND	ND
Perfluorodecane Acid (PFDA), its salts^	335-76-2	-	µg/kg	10	ND	ND	ND
Perfluoroundecanoic Acid (PFUnDA), its salts^	2058-94-8	-	µg/kg	10	ND	ND	ND
Perfluorododecanoic Acid (PFDoDA), its salts^	307-55-1	-	µg/kg	10	ND	ND	ND
Perfluorotridecanoic Acid (PFTrDA), its salts^	72629-94-8	-	µg/kg	10	ND	ND	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	-	µg/kg	10	ND	ND	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	-	µg/kg	10	ND	ND	ND
Sum of C9-C14 PFCA, their salts	-	25	µg/kg	-	ND	ND	ND
C9-C14 PFCA-related substances							
Perfluorodecane Sulfonate (PFDS), its salts^	335-77-3	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	-	µg/kg	10	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A18+A20	A25+A26	A27+A28
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	-	µg/kg	100	ND	ND	ND
Perfluorononane sulfonic acid (PFNS), its salts^	68259-12-1	-	µg/kg	10	ND	ND	ND
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1 / 441296-91-9 (anion)	-	µg/kg	10	ND	ND	ND
Perfluorododecane sulfonic acid (PFDoDS), its salts^	79780-39-5	-	µg/kg	10	ND	ND	ND
Perfluorotridecane sulfonic acid (PFTrDS), its salts^	791563-89-8	-	µg/kg	10	ND	ND	ND
10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	-	µg/kg	100	ND	ND	ND
Perfluorodecyl iodide (PFDI)	423-62-1	-	µg/kg	100	ND	ND	ND
Perfluorodecyl iodide (PFDoDI)	307-60-8	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS), its salts^	39108-34-4	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	µg/kg	100	ND	ND	ND
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA), its salts^	27854-31-5	-	µg/kg	10	ND	ND	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	-	µg/kg	100	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A18+A20	A25+A26	A27+A28
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	-	µg/kg	100	ND	ND	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	-	µg/kg	100	ND	ND	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts^	678-41-1	-	µg/kg	10	ND	ND	ND
2H,2H,3H,3H-Perfluoroundecanoic Acid (H ₄ PFUnDA/ 8:3 FTCA), its salts^	34598-33-9	-	µg/kg	10	ND	ND	ND
1H,1H,2H-Heptafluorodecyl-1-decene (PFDE)	21652-58-4	-	µg/kg	100	ND	ND	ND
Sum of C9-C14 PFCA-related substances	-	260	µg/kg	-	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A31+A33
C9-C14 PFCA, their salts					
Perfluorononanoic Acid (PFNA), its salts^	375-95-1	-	µg/kg	10	ND
Perfluorodecanoic Acid (PFDA), its salts^	335-76-2	-	µg/kg	10	ND
Perfluoroundecanoic Acid (PFUnDA), its salts^	2058-94-8	-	µg/kg	10	ND
Perfluorododecanoic Acid (PFDoDA), its salts^	307-55-1	-	µg/kg	10	ND
Perfluorotridecanoic Acid (PFTrDA), its salts^	72629-94-8	-	µg/kg	10	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A31+A33
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	-	µg/kg	10	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	-	µg/kg	10	ND
Sum of C9-C14 PFCA, their salts	-	25	µg/kg	-	ND
C9-C14 PFCA-related substances					
Perfluorodecane Sulfonate (PFDS), its salts^	335-77-3	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	-	µg/kg	100	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	-	µg/kg	10	ND
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	-	µg/kg	100	ND
Perfluorononane sulfonic acid (PFNS), its salts^	68259-12-1	-	µg/kg	10	ND
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1 / 441296-91-9 (anion)	-	µg/kg	10	ND
Perfluorododecane sulfonic acid (PFDoDS), its salts^	79780-39-5	-	µg/kg	10	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A31+A33
Perfluorotridecane sulfonic acid (PFTrDS), its salts [^]	791563-89-8	-	µg/kg	10	ND
10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	-	µg/kg	100	ND
Perfluorodecyl iodide (PFDI)	423-62-1	-	µg/kg	100	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS), its salts [^]	39108-34-4	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	µg/kg	100	ND
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA), its salts [^]	27854-31-5	-	µg/kg	10	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	-	µg/kg	100	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	-	µg/kg	100	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts [^]	678-41-1	-	µg/kg	10	ND
2H,2H,3H,3H-Perfluoroundecanoic Acid (H ₄ PFUnDA/ 8:3 FTCA), its salts [^]	34598-33-9	-	µg/kg	10	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A31+A33
1H,1H,2H-Heptadecafluoro-1-decene (PFDE)	21652-58-4	-	µg/kg	100	ND
Sum of C9-C14 PFCA-related substances	-	260	µg/kg	-	ND
Conclusion					Pass

Notes:

- (1) 1µg/kg=1ppb.
- (2) Until 25 August 2024, the concentration limit for the sum of C9-C14 PFCAs in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups. From 25 August 2024, the concentration limit shall be 100 ppb for the sum of C9-C14 PFCAs, in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups.
- (3) The concentration limit shall be 1000ppb for the sum of C9-C14 PFCAs, where these are present in PTFE micro powders produced by ionising irradiation or by thermal degradation, as well as in mixtures and articles for industrial and professional uses containing PTFE micro powders.
- (4) Recommended requirement with reference to Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (Effective date: 25 February 2023)
- (5) ^=Substances refer to its salts/derivative listed in below table.

Substance Name	CAS No.
PFNA, its salts	
Perfluorononane Acid (PFNA)	375-95-1
Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8
Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH ₄)	4149-60-4
Potassium perfluorononanoate (PFNA-K)	21049-38-7
Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3
Silver perfluorononanoate (PFNA-Ag)	7358-16-9
PFDA, its salts	
Perfluorodecane Acid (PFDA)	335-76-2
Sodium perfluorodecanoate (PFDA-Na)	3830-45-3
Perfluorodecanoate ammonium salt (PFDA-NH ₄)	3108-42-7
Potassium perfluorodecanoate (PFDA-K)	51604-85-4
Silver perfluorodecanoate (PFDA-Ag)	5784-82-7
Lithium perfluorodecanoate (PFDA-Li)	84743-32-8
PfUnDA, its salts	
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8
Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7
Ammonium perfluoroundecanoate (PFUnDA-NH ₄)	4234-23-5
Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8
Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2
PFDODA, its salts	
Perfluorododecanoic Acid (PFDODA)	307-55-1
Ammonium tricosfluorododecanoate (PFDODA-NH ₄)	3793-74-6
Sodium perfluorododecanoate (PFDODA-Na)	60872-01-7
PFTrDA, its salts	
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8
Ammonium perfluorotridecanoate (PFTrDA-NH ₄)	4288-72-6
PFDS, its salts	
Perfluorodecane Sulfonate (PFDS)	335-77-3
Perfluorodecanesulfonate Na-salt (PFDS-Na)	2806-15-7
Perfluorodecanesulfonate K-salt (PFDS-K)	2806-16-8



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Perfluorodecanesulfonic acid ammonium salt (PFDS-NH ₄)	67906-42-7
PFNS, its salts	
Perfluoro nonane sulfonic acid (PFNS)	68259-12-1
Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2
ammonium nonadecafluorononanesulphonate (PFNS-NH ₄)	17202-41-4
Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5
PFD _o DS, its salts	
Perfluorododecanesulfonic acid (PFD _o DS)	79780-39-5
Sodium perfluoro-1-dodecanesulfonate (PFD _o DS-Na)	1260224-54-1
PFT _r DS, its salts	
Perfluorotridecane sulfonic acid (PFT _r DS)	791563-89-8
Sodium perfluoro-1-tridecanesulfonate (PFT _r DS-Na)	174675-49-1
8:2 FTS, its salts	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4
Potassium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-K)	438237-73-1
Ammonium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-NH ₄)	149724-40-3
Sodium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-Na)	27619-96-1
H ₂ PFDA/8:2 FTCA, its salts	
2H,2H-Perfluorododecane Acid (H ₂ PFDA/8:2 FTCA)	27854-31-5
Tetrabutylphosphonium 2H,2H-Perfluorododecanoate (8:2 FTCA-P(C ₄ H ₉) ₄)	882489-14-7
8:2diPAP, its salts	
Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hepta-decafluorodecyl) hydrogen phosphate (8:2diPAP)	678-41-1
Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6
H ₄ PFUnDA/ 8:3 FTCA, its salts	
2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnDA/ 8:3 FTCA)	34598-33-9
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H ₄ PFUnDA-K)	83310-58-1

Remark:

- (1) Regulation (EU) 2023/1542 concerning batteries and waste batteries Article 6(1): In addition to the restrictions set out in Annex XVII to Regulation (EC) No 1907/2006 and in Article 4(2), point (a), of Directive 2000/53/EC, batteries shall not contain substances for which Annex I to this Regulation contains a restriction unless the conditions of that restriction are complied with.
 - (2) Test was conducted on composite of random parts of the item as per client's request.
- Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.

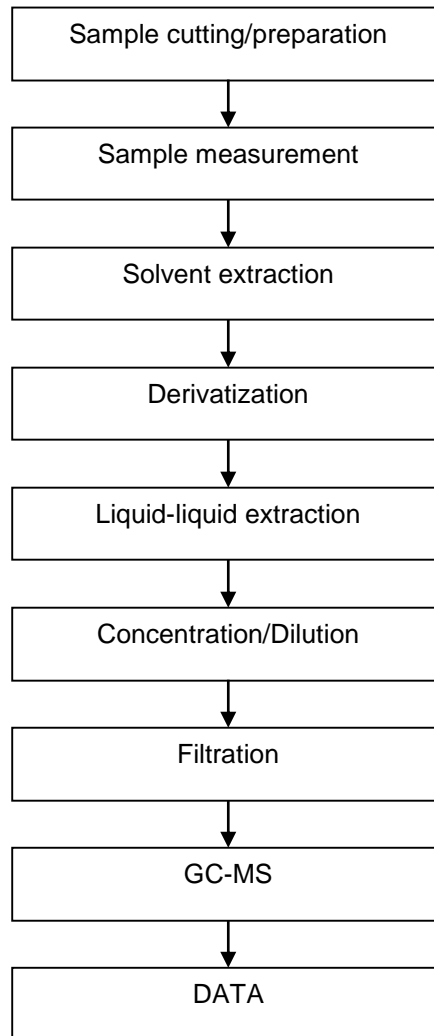


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Organotin Testing Flow Chart



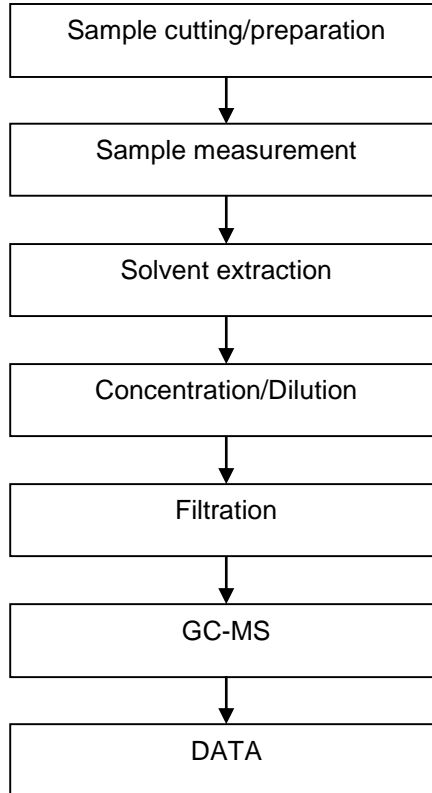
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PAHs Testing Flow Chart



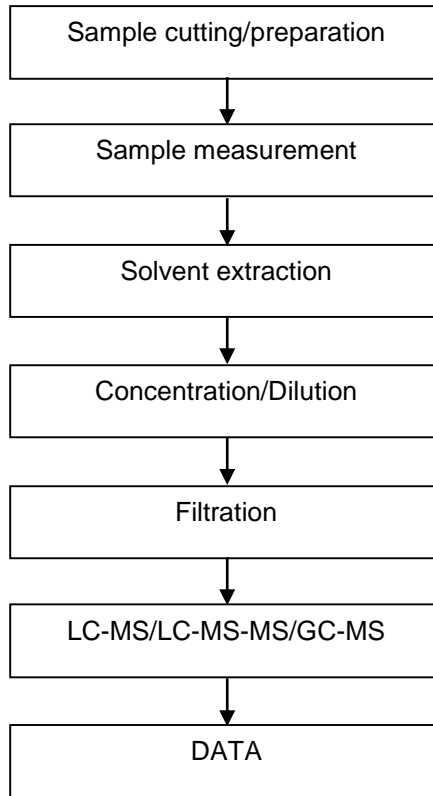
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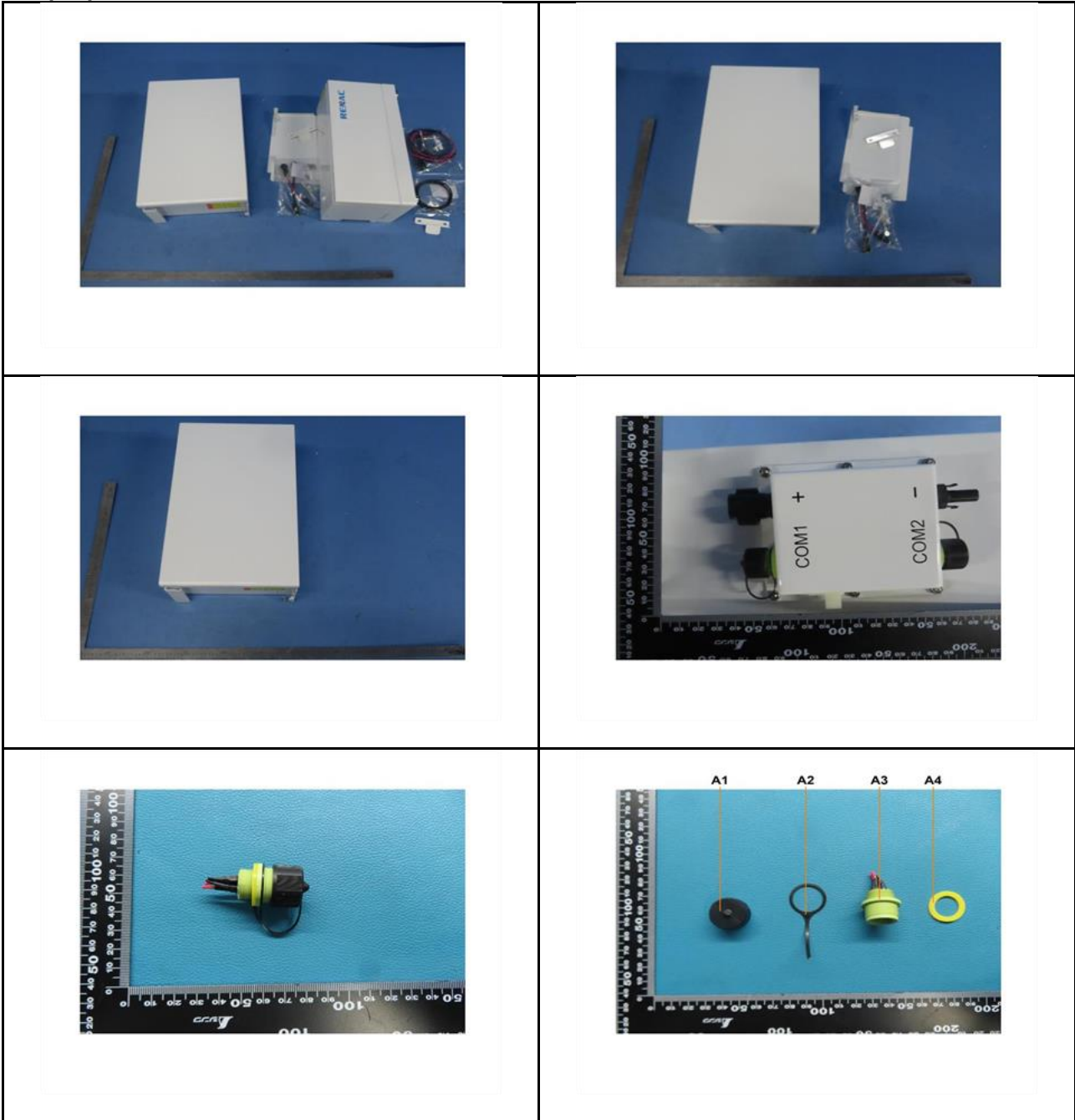
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PFASs/ PFOS/PFOA Testing Flow Chart



Sample photos:

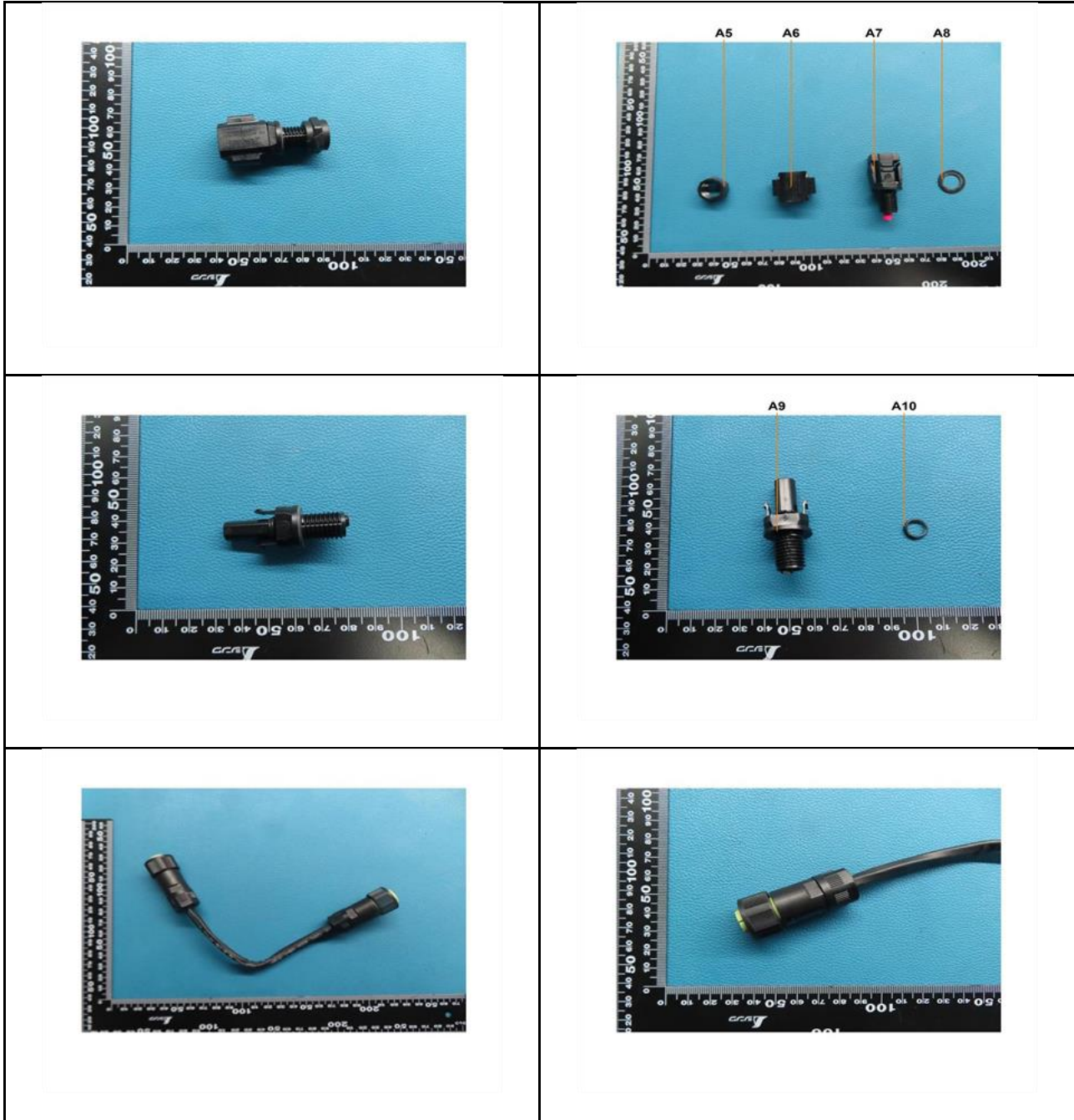


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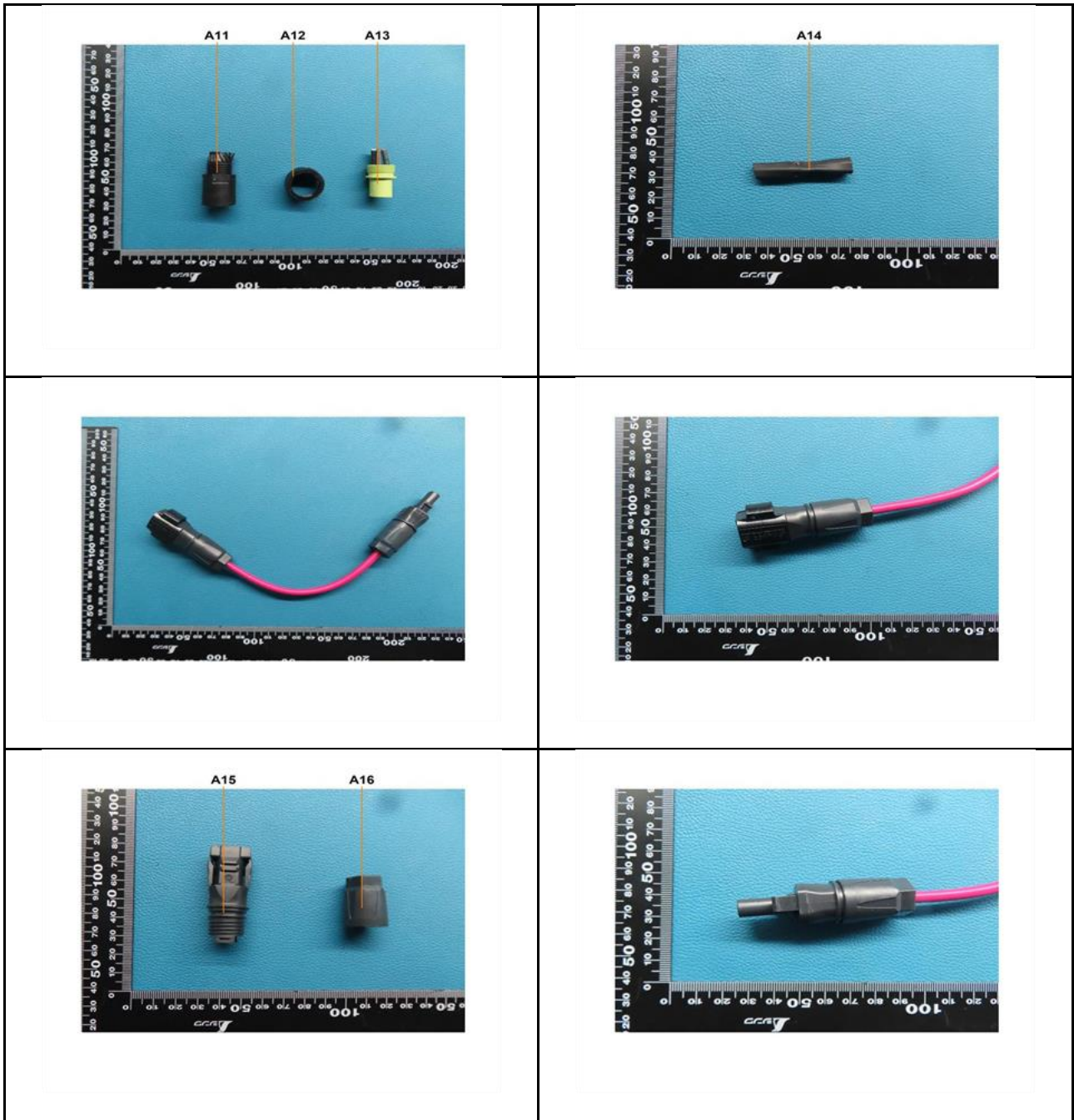


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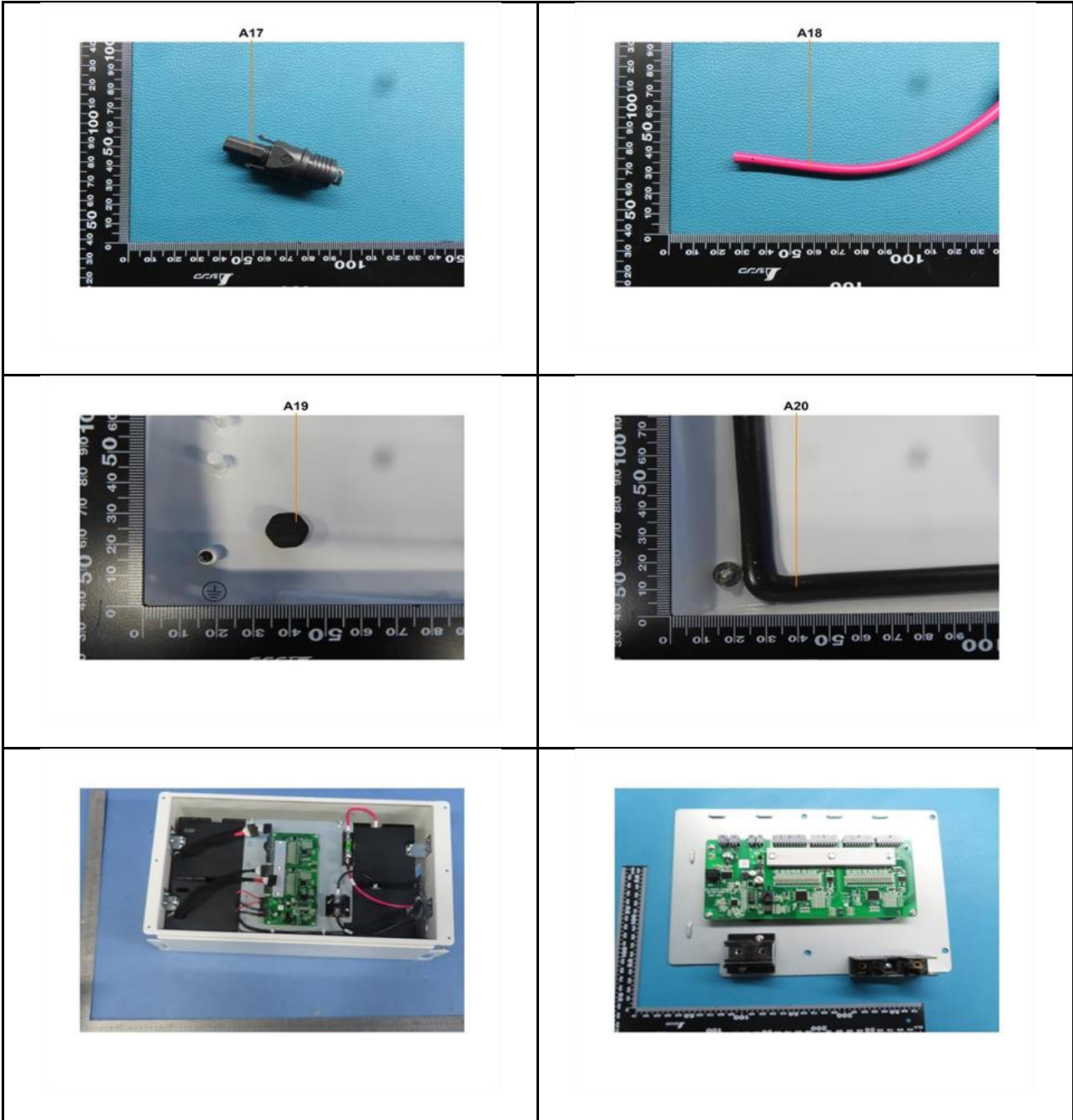


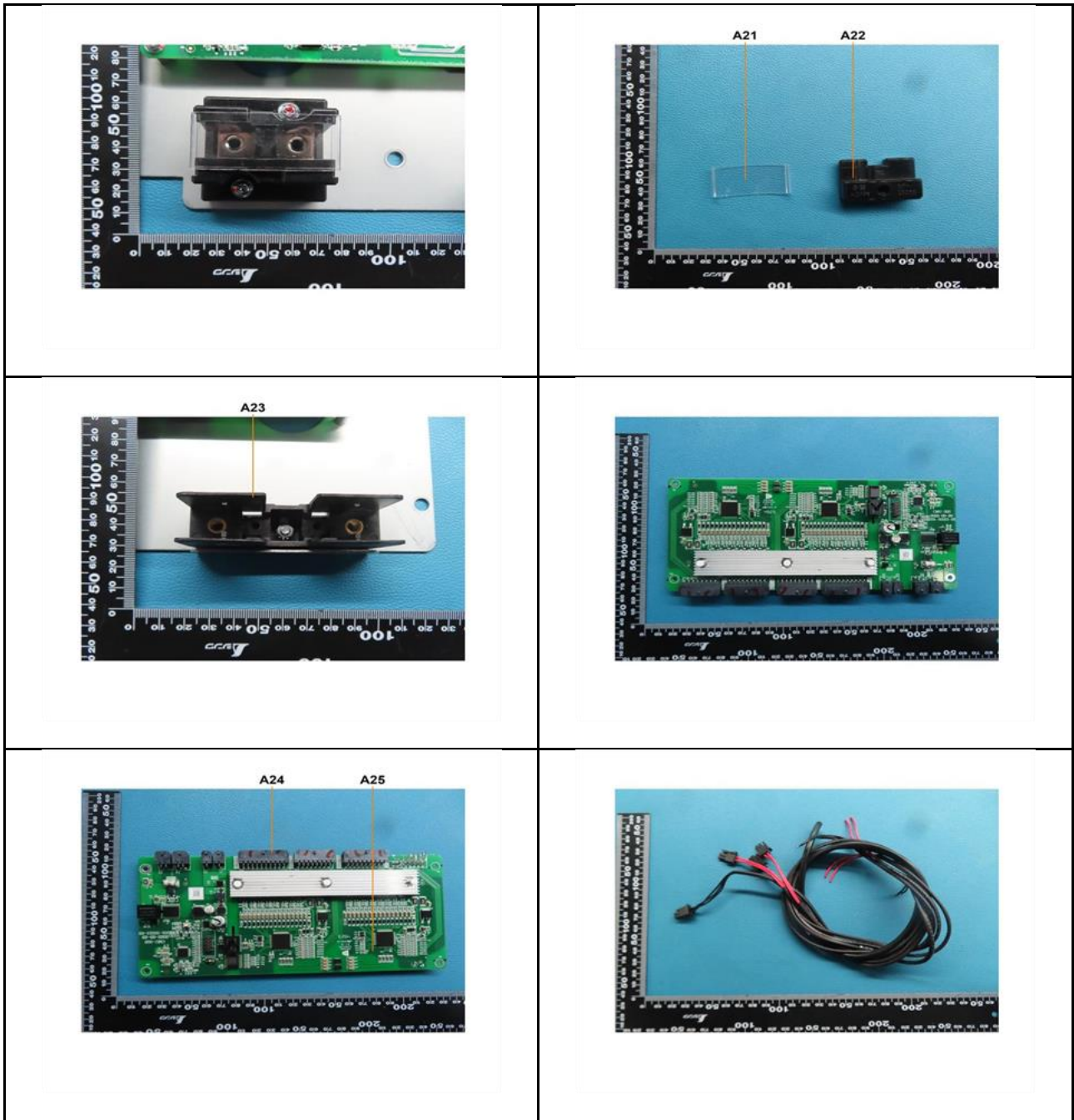
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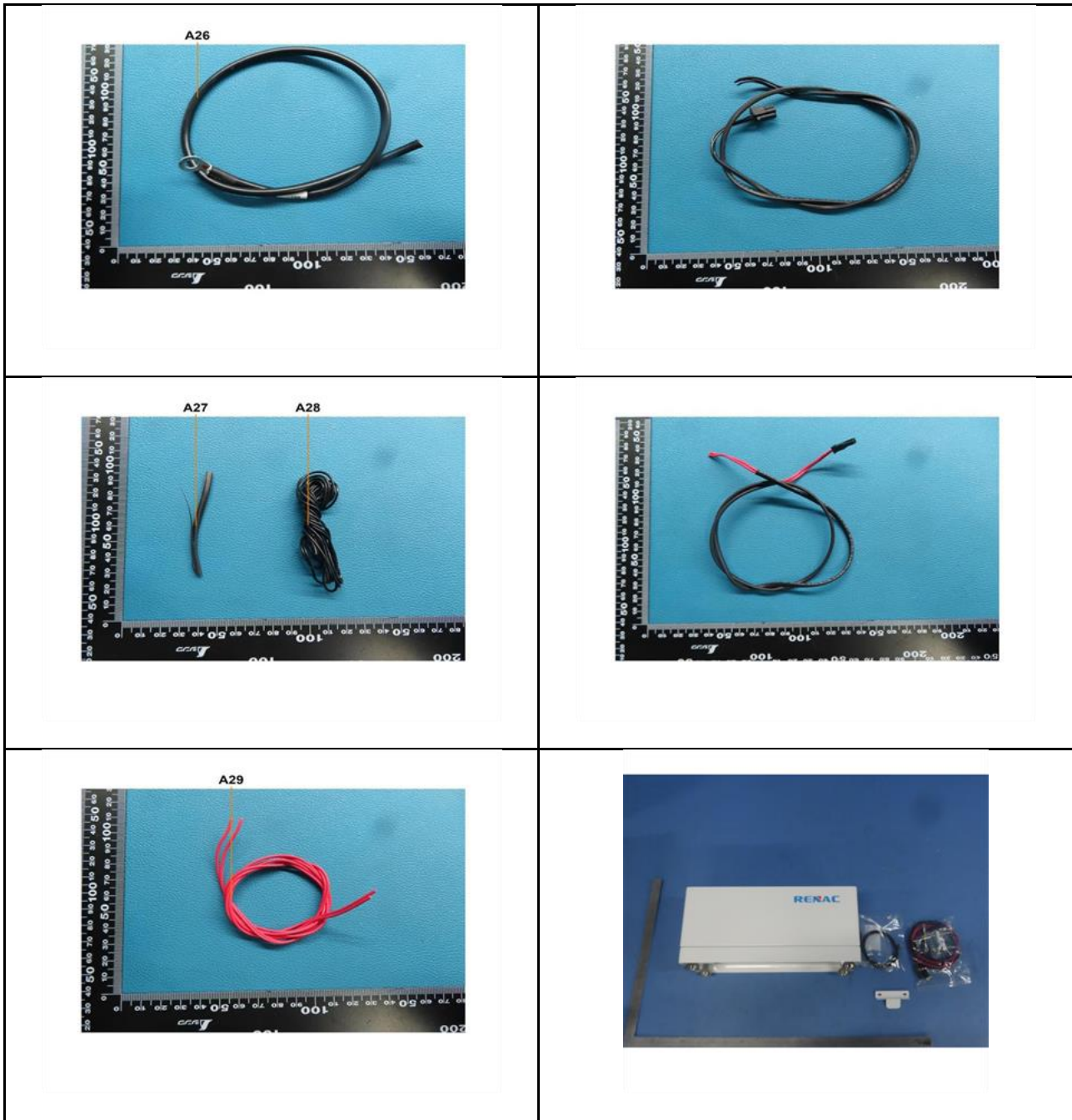
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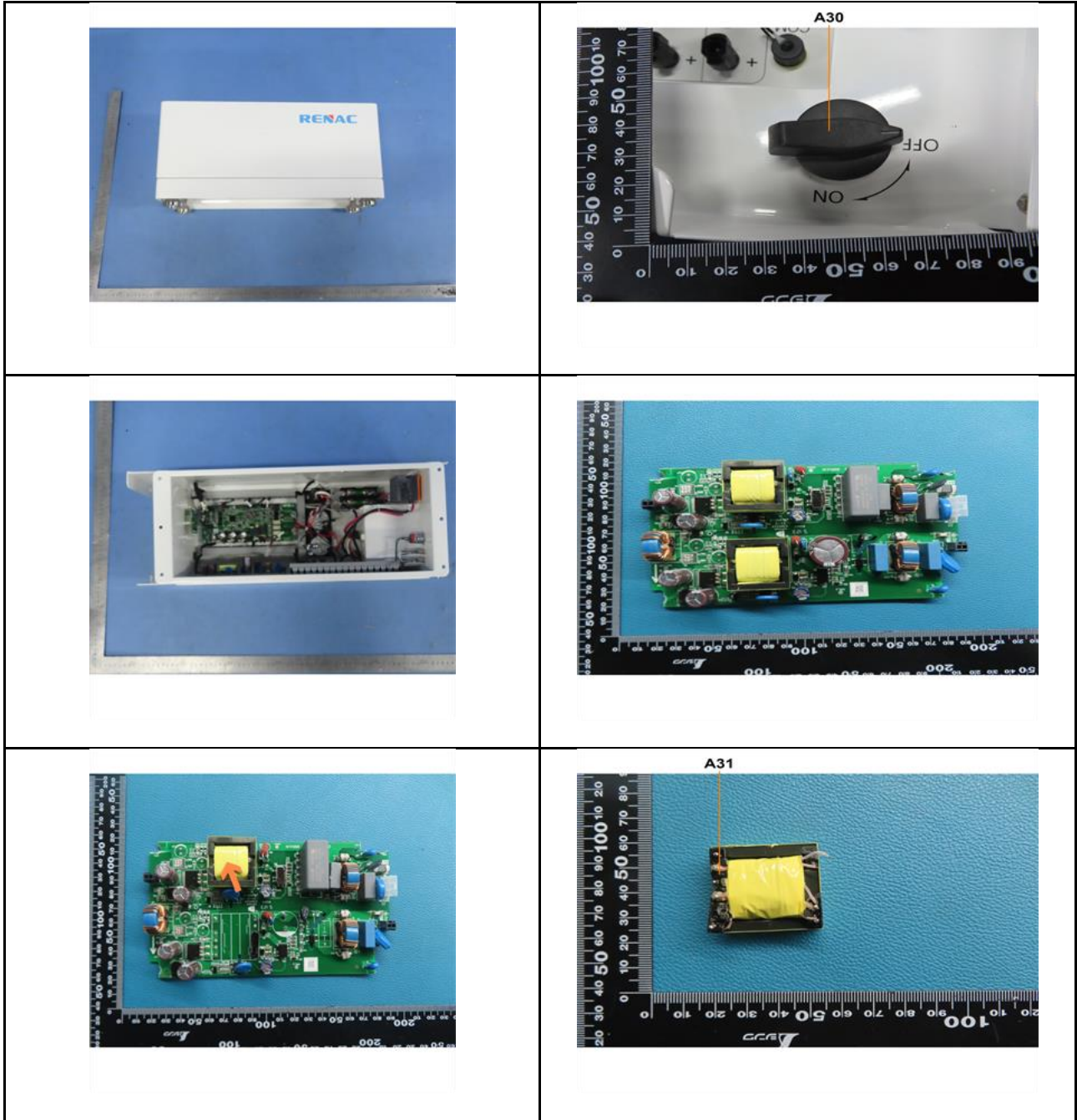
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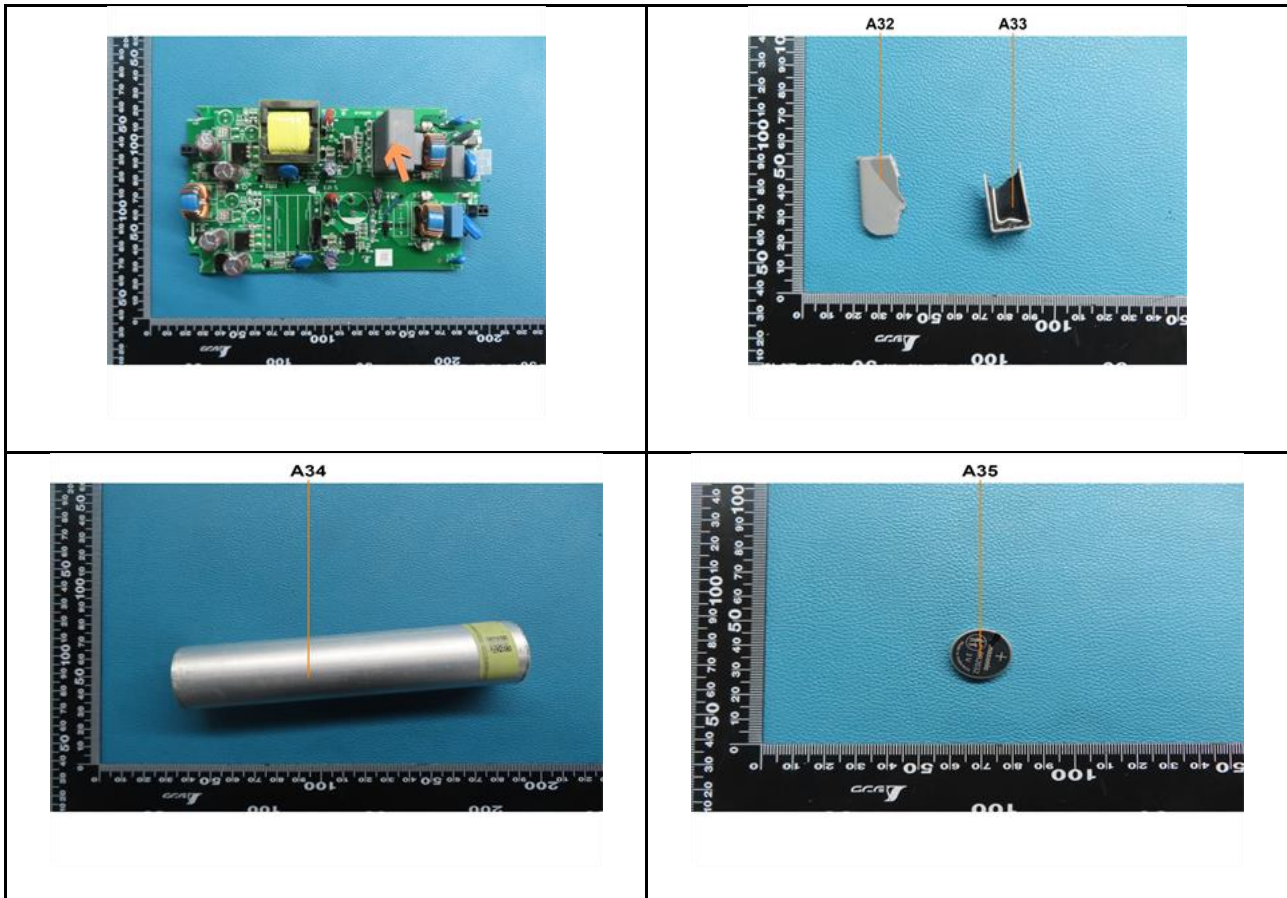


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