



Test Report

No.: T52510351215TC

Date: NOV 21, 2025

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KIKKERLAND DESIGN INC

666 BROADWAY, 4TH FLOOR, NEW YORK, NY, 10012

The following samples were submitted and identified by/on behalf of the client as:

MATCHSTICK RECHARGEABLE LIGHTER

Item No. : LT31
Supplier : NINGBO GIFTYLAND CO.,LIMITED
Country of Origin : CHINA

SGS Ref. No. : CANHL25027048501
Sample Receiving Date : OCT 30, 2025
Last Submission Sample Date : NOV 14, 2025
Testing Period : OCT 30, 2025 TO NOV 21, 2025



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Selected test(s) as requested by the client, please refer to test result page(s) for details:

Test Requested		Conclusion
1.	Regulation (EU) 2023/1542 of the European Parliament and of the Council of 12 July 2023 concerning batteries and waste batteries, amending Directive 2008/98/EC and Regulation (EU) 2019/1020 – Lead, Cadmium and Mercury Content	PASS
2.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Cadmium content	PASS
3.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Organostannic compounds	PASS
4.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Polycyclic Aromatic Hydrocarbons (PAHs) Content	PASS
5.	European Regulation (EU) 2019/1021 Persistent Organic Pollutants (POPs Recast) – Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	PASS
6.	Entry 68 of Regulation (EU) 2021/1297 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - C9-C14 PFCA, their salts and C9-C14 PFCA-related substances	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

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

Scan to see the report



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Verification:
check.sgsonline.com.cn

Chen Mian, Yola
Senior Engineer



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Results:

Regulation (EU) 2023/1542 of the European Parliament and of the Council of 12 July 2023 concerning batteries and waste batteries, amending Directive 2008/98/EC and Regulation (EU) 2019/1020 – Lead, Cadmium and Mercury Content

Method: Acid digestion

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS) / Direct Mercury Analyzer (DMA)

For portable batteries (non portable zinc-air button cells):

Test Item(s)			Lead (Pb)	Cadmium (Cd)	Mercury (Hg)
MDL (%)			0.001	0.001	0.0001
Labeling Requirement (%)			> 0.004	--	--
Permissible Limit (%)			0.01	0.002 [#]	0.0005
Specimen Description	Alias No.	Tracing No.	Result(s) (%)		
1. Battery (-Y 601333 .629wh 3.7V 170mAh + 2025 09 14)	6	1	ND	ND	ND

- Note:
- % = percentage by weight
 - ND = Not Detected (lower than MDL)
 - 1% = 10000 mg/kg = 10000 ppm
 - > = greater than

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- [#] = Not applicable to portable batteries and accumulators intended to use in emergency and alarm systems and medical equipments
- ^{##} = According to (EU) 2023/1542, the corresponding chemical symbol beneath the cross-out wheeled bin logo is required if the heavy metal content in batteries and accumulators exceeded the values specified under labeling requirements.
- * Exceeds Permissible Limit



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European Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – Cadmium Content

Method: With reference to CPSC-CH-E1003-09.1 / CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS)

For Plastic

Test Item(s)			Cadmium (Cd)
Permissible Limit (mg/kg)			100
Specimen Description	Alias No.	Tracing No.	Result(s) (mg/kg)
1. Black plastic (Switch, accessory) + Matt-black plastic (Accessory)	3	1	ND
2. Black soft plastic (USB cable) + White plastic (USB cable) + Black plastic (USB Cable)	3	2	ND
3. Grey-black plastic (USB cable) + Matt-black plastic (Button), Black-grey plastic (Button) + Grey plastic (USB port)	3	3	ND

For Paint on Painted Article

Test Item(s)			Cadmium (Cd)
Permissible Limit (mg/kg)			1000
Specimen Description	Alias No.	Tracing No.	Result(s) (mg/kg)
1. Multi-color coating on metal (Tube) w/ Light red coating on metal (Head) w/ Red coating on metal (Lettering)	2	1	ND



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- Note:
- Permissible and Reference Limit specified by Commission Regulation (EU) No 494/2011 & Commission Regulation (EU) No 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under entry 23 of Regulation (EC) No 552/2009 and directive 91/338/EC).
 - mg/kg = milligram per kilogram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 5 mg/kg
 - 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- ^Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- * Exceeds Permissible or Reference Limit

European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Organostannic compounds

Method: With reference to ISO 17353: 2004

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Result(s) (%)			MDL (%)	Permissible Limit (%)
Specimen No.	1	2	3		
Alias No.	4	4	4		
Tracing No.	1	2	3		
Dibutyltin (DBT) (as Tin)	ND	ND	ND	0.010	0.1
Diocetyl tin (DOT) (as Tin)	ND	ND	ND	0.010	0.1
Tri-substituted Organostannic Compounds (as Tin)	ND	ND	ND	0.010	0.1

Test Item(s)	Result(s) (%)		MDL (%)	Permissible Limit (%)
Specimen No.	4	5		
Alias No.	4	4		
Tracing No.	4	5		
Dibutyltin (DBT) (as Tin)	ND	ND	0.010	0.1
Diocetyl tin (DOT) (as Tin)	ND	ND	0.010	0.1
Tri-substituted Organostannic Compounds (as Tin)	ND	ND	0.010	0.1



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Specimen Description:

1. Multi-color coating on metal (Tube) w/ Light red coating on metal (Head) w/ Red coating on metal (Lettering)
2. Black plastic (Switch, accessory) + Matt-black plastic (Accessory)
3. Black soft plastic (USB cable) + White plastic (USB cable) + Black plastic (USB Cable)
4. Grey-black plastic (USB cable) + Matt-black plastic (Button), Black-grey plastic (Button) + Grey plastic (USB port)
5. Battery cell

- Note:
- % = percentage by weight
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - NA = Not Applicable
 - Tri-substituted Organostannic compounds are represented by Tributyltin (TBT) compounds, Triphenyltin (TPHT) compounds, Tripropyltin (TPT) compounds, Tricyclohexyltin (TCyT) compounds and Tri-n-octyltin (TOT) compounds, Trimethyltin (TMT) compounds

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- * Exceeds Permissible Limit
- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component



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European Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – PAHs Content

Method: With reference to AfPS GS 2019:01 PAK method.

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

For Consumer product

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
Specimen No.	--	1	2	3		
Alias No.	--	1	1	1		
Tracing No.	--	1	2	3		
1. Benzo[a]anthracene	56-55-3	ND	ND	ND	0.1	1.0
2. Chrysene	218-01-9	ND	ND	ND	0.1	1.0
3. Benzo[b]fluoranthene	205-99-2	ND	ND	ND	0.1	1.0
4. Benzo[k]fluoranthene	207-08-9	ND	ND	ND	0.1	1.0
5. Benzo[j]fluoranthene	205-82-3	ND	ND	ND	0.1	1.0
6. Benzo[a]pyrene	50-32-8	ND	ND	ND	0.1	1.0
7. Benzo[e]pyrene	192-97-2	ND	ND	ND	0.1	1.0
8. Dibenzo[a,h]anthracene	53-70-3	ND	ND	ND	0.1	1.0

Specimen Description:

1. Black plastic (Switch, accessory) + Black soft plastic (USB cable) + White plastic (USB cable)
2. Grey-black plastic (USB cable) + Black plastic (USB Cable)
3. Multi-color coating on metal (Tube) w/ Light red coating on metal (Head) w/ Red coating on metal (Lettering)

Note:

- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- mg/kg = milligram per kilogram

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- * Exceeds limit



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Regulation (EU) 2019/1021 Persistent Organic Pollutants (POPs Recast) – Alkanes C₁₀-C₁₃, chloro (short-chain chlorinated paraffins) (SCCPs)

Method: With reference to ISO 22818:2021 / ISO 18219-1:2021

Analysis was performed by Gas Chromatography Electron Capture Detector (GC-ECD) / Gas Chromatography Negative Chemical Ionization Mass Spectrometry (GC-NCI-MS)

Articles :

Test Item(s)	Result(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	1	2		
Alkanes C ₁₀ -C ₁₃ , chloro (short-chain chlorinated paraffins) (SCCPs)	ND	ND	50	1500

Test Item(s)	Result(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	3	4		
Alkanes C ₁₀ -C ₁₃ , chloro (short-chain chlorinated paraffins) (SCCPs)	ND	ND	50	1500

Specimen Description:

1. Black plastic (Switch, accessory) w/ Matt-black plastic (Accessory)
2. Black plastic (USB Cable) w/ Grey plastic (USB port)
3. Black soft plastic (USB cable) w/ Grey-black plastic (USB cable) w/ Matt-black plastic (Button), Black-grey plastic (Button)
4. White plastic (USB cable) w/ Yellow plastic (Inner) w/ Multi-color coating on metal (Tube) w/ Light red coating on metal (Head) w/ Red coating on metal (Lettering)

- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)

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- * Exceed Permissible Limit



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The below tests were conducted by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN25-0270485-0001.C001	Silver battery

Remarks:

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

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: Modified EN 17681-1:2025, analysis was performed by LC-MS or LC-MS/MS and GC-MS or GC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
C9-C14 PFCA, their salts					
Perfluorononane Acid (PFNA), its salts^	375-95-1	-	µg/kg	10	ND
Perfluorodecane 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 (PFTTrDA), its salts^	72629-94-8	-	µg/kg	10	ND
Perfluorotetradecanoic Acid (PFTDA), its salts^	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 sulfonic acid (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-Perfluorododecylacrylate (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), its salts^	120226-60-0	-	µg/kg	100	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
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), its salts^	749786-16-1	-	µg/kg	10	ND
Perfluorododecane sulfonic acid (PFDoDS), its salts^	79780-39-5	-	µg/kg	10	ND
Perfluorotridecane sulfonic acid (PFTrDS), its salts^	791563-89-8	-	µg/kg	10	ND
10:2 Fluortelomerphosphatediester (10:2 diPAP), its salts^	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
2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	-	µg/kg	10	ND
2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	-	µg/kg	10	ND
1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc)	37858-05-2	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecanesulfonic 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 (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 (8:3 FTCA), its salts^	34598-33-9	-	µg/kg	10	ND
1H,1H,2H-Heptafluoro-1-decene (PFDE)	21652-58-4	-	µg/kg	100	ND
1H,1H,2H,2H-Perfluorodecyltrichlorosilane (8:2	78560-44-8 /83048-65-1	-	µg/kg	100	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
FTSiCl ₃ /1H,1H,2H,2H-Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH ₃) ₃)					
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)	37858-04-1	-	µg/kg	100	ND
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP), its salts^	57678-03-2	-	µg/kg	100	ND
10:2 Fluorotelomerphosphatemonoester (10:2 monoPAP), its salts^	57678-05-4	-	µg/kg	100	ND
Sum of C9-C14 PFCA-related substances	-	260	µg/kg	-	ND
Conclusion					Pass

Notes:

- 1µg/kg=1ppb.
- Until 25 August 2024, the concentration limit shall be 2000 ppb for the sum of C9-C14 PFCA's 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 PFCA's, in fluoroplastics and fluoroelastomers that contain perfluoroalkoxy groups.
- The concentration limit shall be 1000ppb for the sum of C9-C14 PFCA's, 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.
- ^=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
Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))	77032-23-6
Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-ethylethanamine (1:1) PFNA-NH ₂ (C ₂ H ₅) ₂	77032-27-0
Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-methylmethanamine (1:1) (PFNA-NH ₂ (CH ₃) ₂)	77032-24-7
Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₃)	327176-80-7
Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH ₂ (C ₅ H ₁₀))	95682-66-9
Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-,	95682-67-0



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compd. with benzenamine (1:1) (PFNA-NH ₃ (C ₆ H ₅))	
Nonanoic acid, heptafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-NH ₃ (C ₆ H ₁₁))	328531-06-2
Perfluorononanoate (anion)	72007-68-2
4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptafluorononanoate (PFNA-C ₁₁ H ₁₂ N ₄ O ₃ S)	298703-33-0
Perfluorononanoic anhydride (PFNAA)	228407-54-3
Perfluorononanoyl chloride (PFNA-Cl)	52447-23-1
Perfluorononanoyl fluoride (PFNA-F)	558-95-2
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
Perfluorodecanoate (anion)	73829-36-4
Perfluorodecanoic anhydride (PFDA)	942199-24-8
Nonadecafluorodecanoyl chloride (PFDA-Cl)	307-38-0
Nonadecafluorodecanoyl Fluoride (PFDA-F)	--
PUnDA, its salts	
Perfluoroundecanoic Acid (PUnDA)	2058-94-8
Perfluoroundecanoic acid sodium salt (PUnDA-Na)	60871-96-7
Ammonium perfluoroundecanoate (PUnDA-NH ₄)	4234-23-5
Potassium perfluoroundecanoate (PUnDA-K)	30377-53-8
Calcium perfluoroundecanoate (PUnDA-Ca)	97163-17-2
Perfluoroundecanoate (anion)	196859-54-8
PDoDA, its salts	
Perfluorododecanoic Acid (PDoDA)	307-55-1
Ammonium tricosafuorododecanoate (PDoDA-NH ₄)	3793-74-6
Perfluorododecanoate (anion)	171978-95-3
PTrDA, its salts	
Perfluorotridecanoic Acid (PTrDA)	72629-94-8
Ammonium perfluorotridecanoate (PTrDA-NH ₄)	4288-72-6
Sodium perfluorotridecanoate (PTrDA-Na)	60872-01-7
Perfluorotridecanoate (anion)	862374-87-6
PFTDA, its salts	
Perfluorotetradecanoic Acid (PFTDA)	376-06-7
Perfluorotetradecanoate (anion)	365971-87-5



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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
Perfluorodecanesulfonic acid ammonium salt (PFDS-NH ₄)	67906-42-7
Perfluorodecane sulfonate (anion)	126105-34-8
Perfluorodecane sulfonic anhydride (PFDSA)	51667-62-0
Perfluorodecanesulphonyl fluoride (PFDS-F)	307-51-7
Perfluorodecanesulphonyl chloride (PFDS-Cl)	32779-61-6
10:2 FTS, its salts	
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0
1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na)	108026-35-3
2-(Perfluorodecyl)ethane-1-sulfonyl chloride (10:2 FTS-Cl)	27619-91-6
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
Perfluorononane sulfonate (anion)	474511-07-4
Perfluorononanesulfonyl fluoride (PFNS-F)	68259-06-3
PFUnDS, its salts	
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1
Perfluoroundecanesulfonate (anion)	441296-91-9
PFDoDS, its salts	
Perfluorododecanesulfonic acid (PFDoDS)	79780-39-5
Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na)	1260224-54-1
Potassium perfluorododecanesulfonate (PFDoDS-K)	85187-17-3
Perfluorododecane sulfonate (anion)	343629-43-6
PFTrDS, its salts	
Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8
Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na)	174675-49-1
10:2 diPAP, its salts	
10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7
Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-C ₄ H ₁₁ O ₂)	57677-98-2
8:2 FTS, its salts	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4
Potassium 1H,1H,2H,2H-Perfluorodencane sulfonate (8:2 FTS-K)	438237-73-1



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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
2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion))	481071-78-7
2-(Perfluorooctyl)ethanesulfonyl chloride (8:2 FTS-Cl)	27619-90-5
8:2 FTCA, its salts	
2H,2H-Perfluorodecane Acid (8:2 FTCA)	27854-31-5
Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C ₄ H ₉) ₄)	882489-14-7
8:2 diPAP, its salts	
Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP)	678-41-1
Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2 diPAP-Na)	114519-85-6
Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate	57677-97-1
Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-NH ₄)	93776-20-6
8:2 Fluorotelomer phosphate diester ion (1-)	1411713-91-1
8:3 FTCA, its salts	
2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1
2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8
8:2 monoPAP, its salts	
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)	57678-03-2
8:2 Fluorotelomer diammonium phosphate	93857-44-4
Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3
Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0
3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt	92401-44-0
Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0
Monopotassium monoperfluorohexyl ethylphosphate	150033-28-6
Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8
10:2 monoPAP, its salts	
10:2 Fluorotelomerphosphatemonoester (10:2 monoPAP)	57678-05-4
10:2 Fluorotelomer diammonium dihydrogen phosphate	93857-45-5
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12,12,12-Henicosafuorododecyl dihydrogen phosphate cyclohexylamine	2514858-66-1

- (5) The conclusion is only applicable to the substance list in the report.



SGS-CSTC Technical Services Co., Ltd.
Shenzhen Branch Testing Center Hardlines

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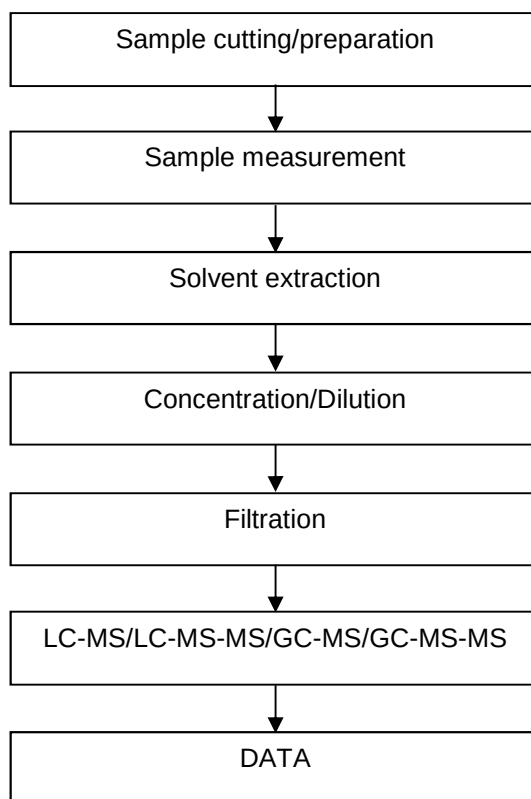
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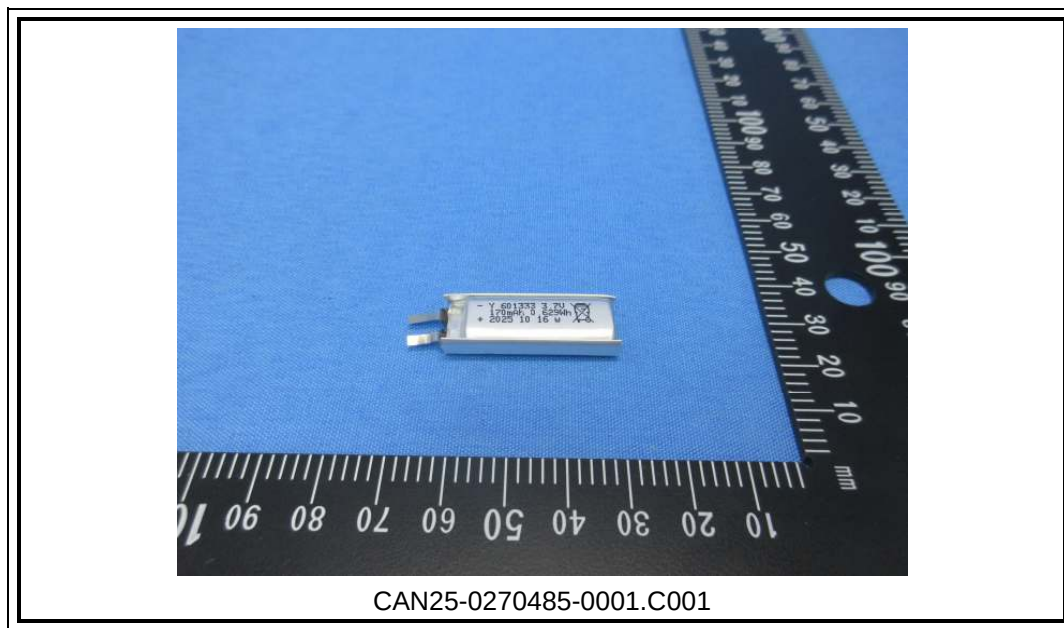
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ATTACHMENTS

PFASs/ PFOS/PFOA Testing Flow Chart



Sample Photo:



Remark:

1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
2. 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.



Sample Picture (As received)

Pic.1



SGS authenticate the photo on original report only

*** End of Report ***

