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ICS 97.030
CCS Y60

SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3334.1-2013

Determination of perf luorooctanoic acid and its salts in the household appliances. LC-MS/MS

小型家用电器中全氟辛酸及其盐类的测定 液相色谱-串联质谱法

(English Translation)

Issued on: March 1, 2013 **Implemented on: September 16, 2013**

Issued by: General Administration of Customs

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Foreword

This section SN/T 3334 Part 1.

This section drafted in accordance with GB/T 1.1-2009 given rules.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

1 Scope

SN/T 3334 provisions of this part of the small household appliances PFOA and its salts in liquid chromatography - tandem mass spectrometry.

This section applies to the determination of small household appliances polymeric material perfluorooctanoic acid and its salts, lower limit of detection was 0.50μg/kg.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis GB/Z20288 hazardous substances in electrical and electronic products in the test sample resolution General requirements

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3 PRINCIPLE OF THE METHOD

In accordance with the requirements of small household appliances after GB/Z20288 split, pulverized to a particle size of 1mm. Accelerated Solvent Extraction with methanol, dried C18 Solid phase extraction cartridge using liquid chromatography - tandem mass spectrometry (MRM mode) were isolated, measured, quantified by external standard.

4 Terms and Definitions

The following terms and definitions apply to this document.

Polymer material polymericmaterials it can be formed by molding or calendering of films or shapes of various synthetic or semisynthetic organic polymer material and concentrated.

NOTE: polymeric materials include polyethylene, polyvinyl chloride, epoxy resin, polyamide, polycarbonate, ABS resin, polystyrene and the like.

5 Reagents and materials

Unless otherwise indicated, the reagents used were HPLC grade water as a water line with GB/T 6682 regulations.

5.1
methanol.

5.2
n-hexane.

5.3
dichloromethane.

5.4
methanol - water (11 volume). Take 100mL of methanol and 100mL water, and mix.

5.5
PFOA standard. Purity >=98%.

5.6
PFOA standard stock solution. accurately weighed 0.1g (accurate to 0.0001g) perfluorooctanoate standard (5.5) in 50mL beaker, Add the amount dissolved in methanol, quantitative solution into 100mL volumetric flask, diluted with methanol to the mark, and mix. This solution was concentrated in PFOA Degree of 1000mg/L. Stock solution stored at 0 °C ~ 4 °C refrigerator.

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