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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3467.3-2014

Determination of polychlorinated naphthalene in electrical and electronic products. Part 3: Gas chromatography-electron capture detector method

电子电气产品中多氯萘的测定 第3部分：气相色谱-电子捕获检测器法

(English Translation)

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Foreword

SN/T 3467 "electrical and electronic products, polychlorinated naphthalene determination" is divided into three parts.

--- Part 1. gas chromatography - mass spectrometry;

--- Part 2. High performance liquid chromatography;

--- Part 3. Gas chromatography - electron capture detection method.

This section SN/T Section 33467 of.

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

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

This section is responsible for drafting unit. People's Republic of China Guangdong CIQ.

1 Scope

SN/T 3467 provisions of this part of the electrical and electronic products, polychlorinated naphthalene content by gas chromatography - electron capture detector measurement method.

This section applies to the determination of polychlorinated naphthalene in electrical and electronic goods and plastic parts.

2 Method summary

Samples with toluene as solvent extraction, the extract was subjected to silica gel solid phase extraction column purification, concentration, volume, gas chromatography - electron

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Determination capture detector, internal standard method.

3 Reagents and materials

3.1
toluene. HPLC grade purity >=99.5%.

Over 3.2 chloronaphthalene. an eight-chloro-chloronaphthalene standards, a purity of >=97%.

3.3
standard stock solution (1000mg/L). Weigh accurately respectively 25mg (accurate to 0.1mg) Polychlorinated naphthalene standards, placed in 25mL capacity Bottle with toluene (3.1) is dissolved, set the volume.

3.4
standard solution. A standard stock solution (3.3) stepwise diluted with toluene (3.1) to prepare a concentration of 0.01mg/L, 0.02mg/L, 0.05mg/L, 0.1mg/L, 0.2mg/L of standard solution.

3.5
silica SPE column. 3mL/500mg, before use with 5mL toluene (3.1) activation.

3.6
The organic phase filter. 0.45μm.

4 Instruments and equipment

4.1
Gas chromatograph. with electron capture detector.

Microwave Extractor 4.2. with polytetrafluoroethylene (PTFE) core magnetic stirrer, rated power not less than 200W.

4.3
vacuum rotary evaporator.

4.4
Freezer Mill.

4.5
Balance. a sense of the amount of 0.1mg.

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5 Sample

The sample was cut to a particle size of not more than 5mm, the refrigerating mill to a maximum particle size of not greater than 1mm.

6 Step, Analysis

Sample preparation before 6.1

6.1.1 Extraction

Weigh 0.2g ~ 0.5g (accurate to 0.1mg) sample in the microwave extraction tank, into the PTFE core magnetic stirrer, was added 10mL

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