



**THE INDUSTRIAL ANALYSIS SERVICE LTD.**

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**TEST REPORT**

Request No. 0142480  
 Report No. ES210000005239-01  
 Date of issue: 30 November 2021

**To. NGK Electronics Devices, Inc.**

Address: 2701-1 Higashibun, Ohmine-cho, Mine-Shi, Yamaguchi. 759-2212, Japan

Name of sample: Au Plating (Au-non T1)

Date of receipt of sample: 22 November 2021

Measurement days: 22 November 2021 ~ 30 November 2021

The following is the report on the requested test of the sample

Test Items	Unit	Test result	D.L.	Test Method
Bis(2-ethylhexyl) phthalate (DEHP)	ppm	N.D.	50	With reference to IEC62321-8(2017) GC/MS
Butylbenzyl phthalate (BBP)	ppm	N.D.	50	With reference to IEC62321-8(2017) GC/MS
Dibutyl phthalate (DBP)	ppm	N.D.	50	With reference to IEC62321-8(2017) GC/MS
Diisobutyl phthalate (DIBP)	ppm	N.D.	50	With reference to IEC62321-8(2017) GC/MS
F	ppm	N.D.	50	With reference to EN14582(2016) Furnace combustion/IC
Cl	ppm	N.D.	50	With reference to EN14582(2016) Furnace combustion/IC
Br	ppm	N.D.	50	With reference to EN14582(2016) Furnace combustion/IC
I	ppm	N.D.	50	With reference to EN14582(2016) Furnace combustion/IC
Sb	ppm	N.D.	2.0	With reference to US EPA Method 3050B Acid digestion/ICP/MS
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Note: The results shown in this test report refer only to the sample(s) tested.  
 Plating part

N. D. means the analysis result is less than fixed quality lower limit level calculated according to our established precision management condition.  
 mg/kg=ppm

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TAKANORI YOSHIDA

Flow chart

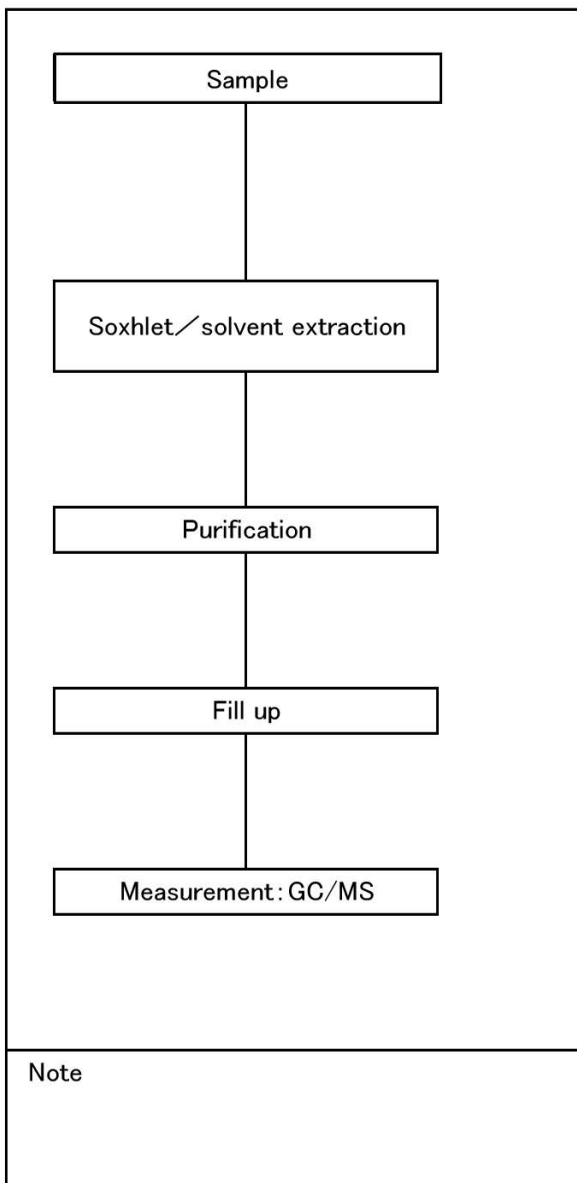
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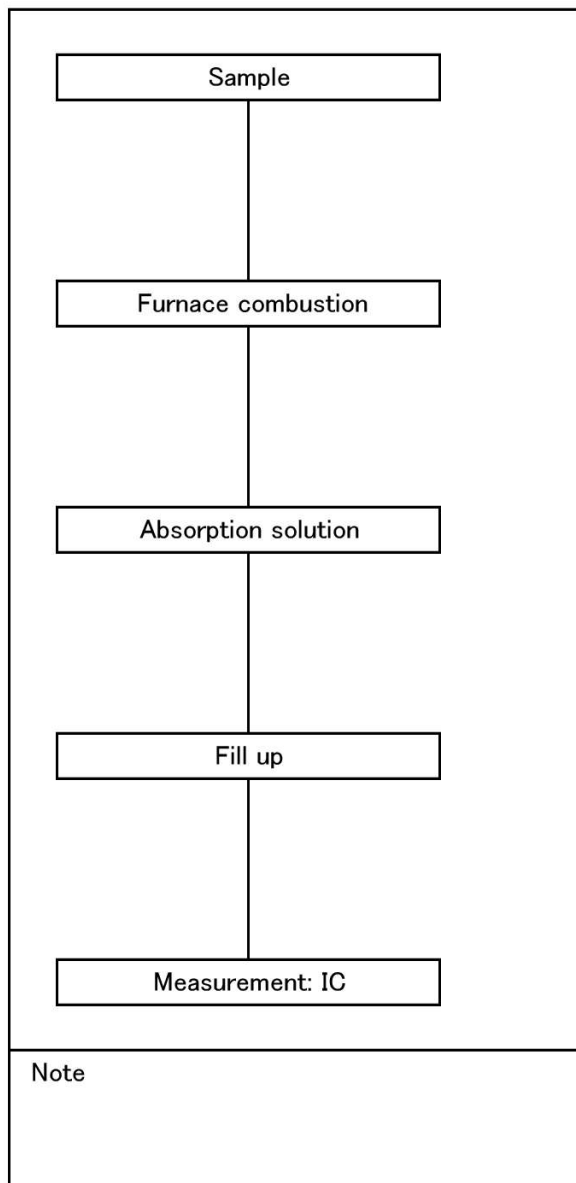
Operator : Yuichi Kuboji Norio Watanabe

phthalates

F, Cl, Br, I



GC/MS : SHIMADZU GCMS-QP2020



IC : DIONEX ICS-1100 RFIC

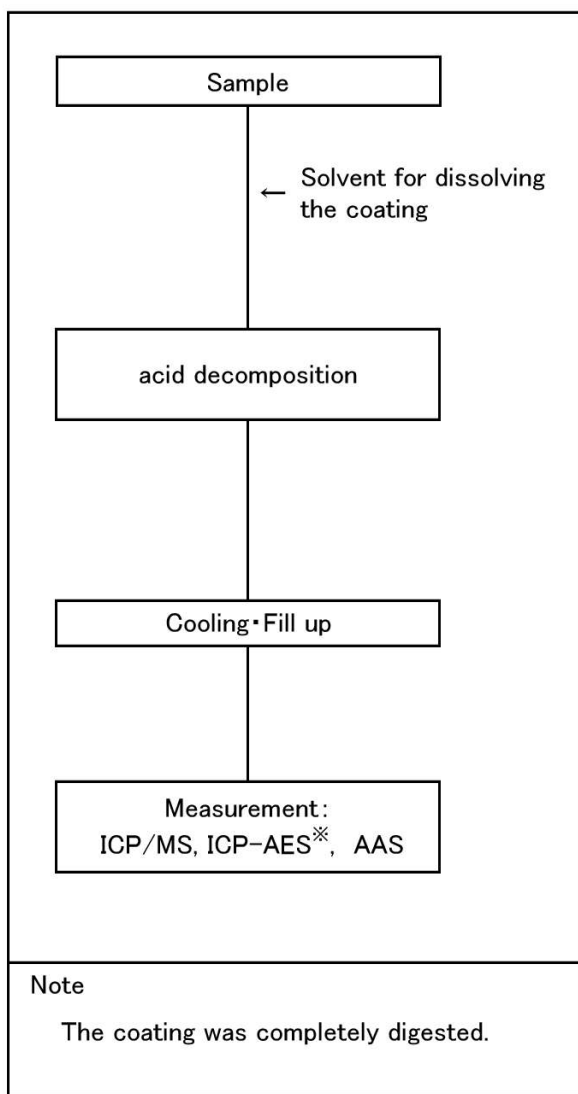
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Operator : Kensho Nakajima

Sb



ICP/MS : Agilent Technologies 7700X

ICP-AES : Rigaku CIROS CCD

AAS : HIRANUMA MERCURY ANALYZER HG-200

\*It is also called ICP-OES.

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