

Test Report

No.: ETR21602384

Date: 28-Jun-2021

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NANTONG HORNBY ELECTRONIC CO.,LTD
SMARTENGRAND LTD.

NO.8, XING YUAN ROAD,RUCHENG INDUSTRIAL ZONE, RUGAO CITY, JIANGSU PROVINCE, P. R. C.
NO. 168, SEC. 2, ZHONGZHENG ROAD, SANXIA DISTRICT, NEW TAIPEI CITY, TAIWAN, R. O. C.

The following sample(s) was/were submitted and identified by/on behalf of the applicant as:

Sample Submitted By : NANTONG HORNBY ELECTRONIC CO.,LTD
Sample Name : WAFER
Used for : PLEASE REFER TO PAGE 2

=====
Sample Receiving Date : 15-Jun-2021
Testing Period : 15-Jun-2021 to 24-Jun-2021

Test Requested : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).
(2) Please refer to next pages for the other item(s).
Test Results : Please refer to following pages.
Conclusion : (1) Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.


Troy Chang, Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: 0B075FB4

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Used for

:

DIODE & BRIDGE RECTIFIERS(R-1 · A-405(H) · DO-41 · DO-15 · R-3 · DO-201AD · R-6 · R-7 · GBP · GBL · GBU · GBJ · KBL · KBP · KBU · KBJ · JA · JB · 2S · D3K · TSB-5 · S25VB10 · SKBPC · 2CL · CL · MD-M · MD-S · MD-F · DB-1 · DB-S · DF · DF-S · LBF · ABS · MSBS · YBS · YBSL · SBS · SBSL · LDF · MBF(S/T1/T2) · WOM/RC-2 · MKBPC · MKBPC-W · KBPC-1 · KBPC-6 · KBPC-8 · KBPC · KBPC-W · MP · MP8 · MBR · MBR-W · BR · BR-W · BR-L · BR-6 · BR-8 · RA/RAS · CXA · TO-220AC · TO-220AB · ITO-220AC · ITO-220AB · TO-3P · TO-247(A/AD/S) · SMA-X · DO-214AC/SMA · SMA-F · SMA-L · SMA-S · SMA-HE · SMA-T · DO-214AA/SMB · SMB-F · SMB-S · SMB-L · DO-214AB/SMC · SMC-F · SMC-T3 · SMC-T4 · SMC-HE · DO-218(AB) · MINI-MELF · MELF · TO-92 · TO-126 · TO-252(A) · TO252-4L · TO-251 · TO-262 · D-PAK · TO-263 · D2PAK · SOD-123(FL/T/S/H1/HT/HE) · 1206(S) · SOD-323(FL/T/HE) · 0805 · SOD-523(FL) · 0603 · SOD-723(FL) · SOD-923(FL) · SOD-882 · 0402 · 0201 · SOT-23(-3/-3L/-3S/-5/-6/-6L) · SOT-26 · SOT-343 · SOT-353 · SOT-553 · SOT-363 · SOT-563 · SOT-223 · SOT-323(F) · SOT-523(F) · SOT-723(F) · SOT-883 · DFN1006-3L · 2928-8L · CP · SOT-143 · TO-277(A) · WBFBP · DFN1006-2 · DFN0603 · DSON10 · DFN2510(-10L) · DFN1608 · DFN1610 · DFN3810(-9L) · DFN5515(-18L) · DFN1515-6L · DFN1515-6L · DFN2020-6L · DFN1610-6L · DFN1713-8L · DFN2010-8L · TO-89 · SOP-8 · MSOP-8 · TSOP-6 · TSSOP-8 · MSOP-10 · DFN2626-10L · DFN3020-10L · DFN4120-10L · DFN3316-16 · LDFN4016-16L · PPAK2X3 · PPAK3X3 · DFN2X2-3L · DFN3X3(-8L) · DFN2X2-6 · DFN2X3-6 · DFN2X3-8 · PPAK5X6 · DFN5X6-8L

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Test Part Description

No.1 : WAFER

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	100
Lead (Pb) (CAS No.: 7439-92-1)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Hexavalent Chromium Cr(VI) (CAS No.: 18540-29-9)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	n.d.	1000
Monobromobiphenyl	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Dibromobiphenyl		mg/kg	5	n.d.	-
Tribromobiphenyl		mg/kg	5	n.d.	-
Tetrabromobiphenyl		mg/kg	5	n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.	-
Hexabromobiphenyl		mg/kg	5	n.d.	-
Heptabromobiphenyl		mg/kg	5	n.d.	-
Octabromobiphenyl		mg/kg	5	n.d.	-
Nonabromobiphenyl		mg/kg	5	n.d.	-
Decabromobiphenyl		mg/kg	5	n.d.	-
Sum of PBBs		mg/kg	-	n.d.	1000
Monobromodiphenyl ether		mg/kg	5	n.d.	-
Dibromodiphenyl ether		mg/kg	5	n.d.	-
Tribromodiphenyl ether		mg/kg	5	n.d.	-
Tetrabromodiphenyl ether		mg/kg	5	n.d.	-
Pentabromodiphenyl ether		mg/kg	5	n.d.	-
Hexabromodiphenyl ether		mg/kg	5	n.d.	-
Heptabromodiphenyl ether		mg/kg	5	n.d.	-
Octabromodiphenyl ether		mg/kg	5	n.d.	-
Nonabromodiphenyl ether		mg/kg	5	n.d.	-
Decabromodiphenyl ether	mg/kg	5	n.d.	-	
Sum of PBDEs	mg/kg	-	n.d.	1000	

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Butyl benzyl phthalate (BBP) (CAS No.: 85-68-7)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		mg/kg	50	n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)		mg/kg	50	n.d.	1000
Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5)		mg/kg	50	n.d.	1000
Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.	-
Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)		mg/kg	50	n.d.	-
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		mg/kg	50	n.d.	-
Di-n-hexyl phthalate (DNHP) (CAS No.: 84-75-3)		mg/kg	50	n.d.	-
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	With reference to IEC 62321: 2008, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
Chlorine (Cl) (CAS No.: 22537-15-1)		mg/kg	50	n.d.	-
Bromine (Br) (CAS No.: 10097-32-2)		mg/kg	50	n.d.	-
Iodine (I) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-
PFOA and its salts (CAS No.: 335-67-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Medium Chain Chlorinated Paraffins(C14-C17) (MCCP) (CAS No.: 85535-85-9)	With reference to ISO 18219: 2015, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected (Less than MDL)
4. "-" = Not Regulated
5. PFOS and its salts including :
CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.
6. PFOA and its salts including :
CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
7. The statement of compliance conformity is based on comparison of testing results and limits.

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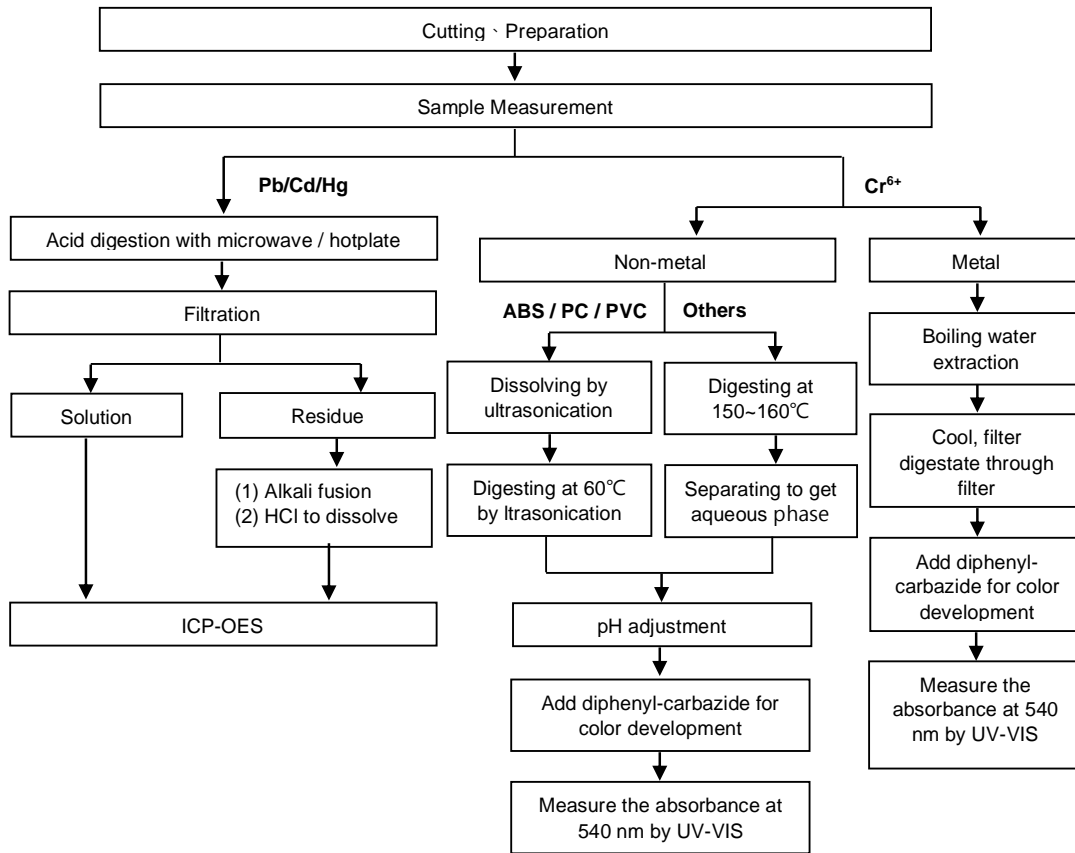
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Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr⁶⁺ test method excluded)

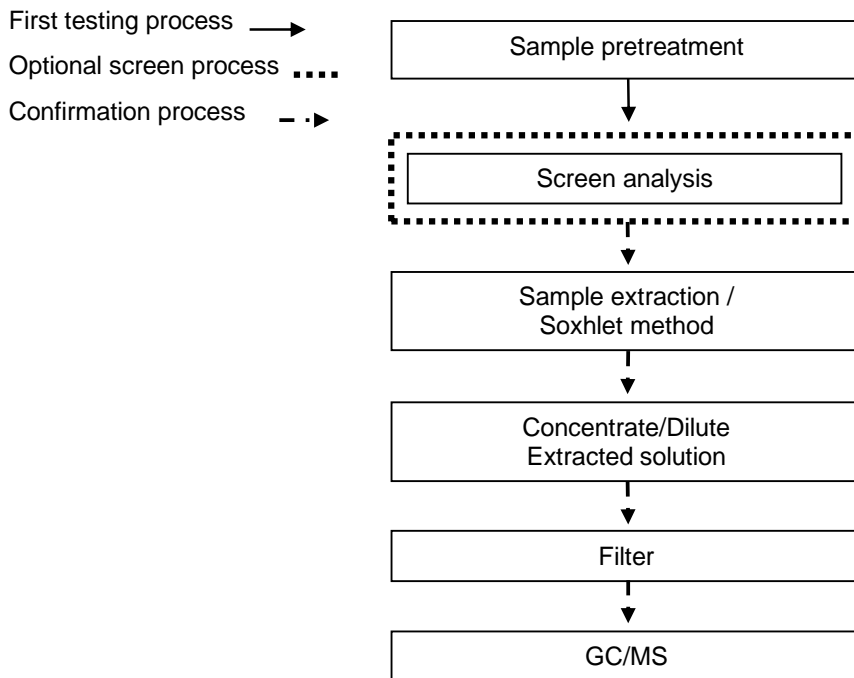


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Analytical flow chart – PBBs / PBDEs



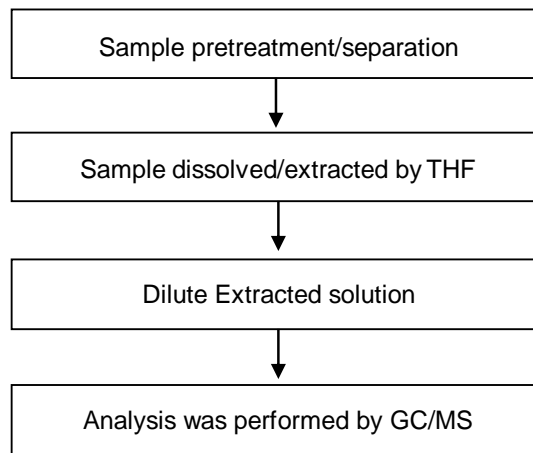
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Analytical flow chart - Phthalate

【Test method: IEC 62321-8】

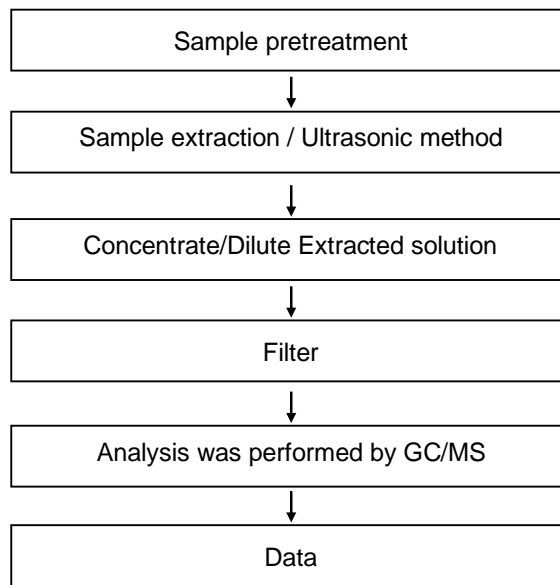


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Analytical flow chart - HBCDD

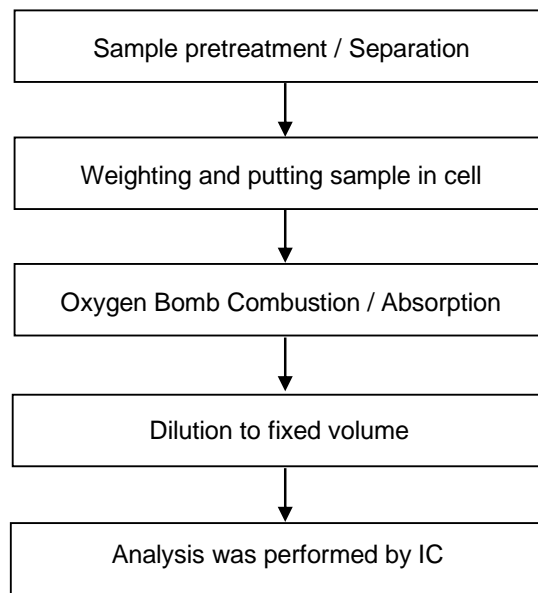


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Analytical flow chart - Halogen

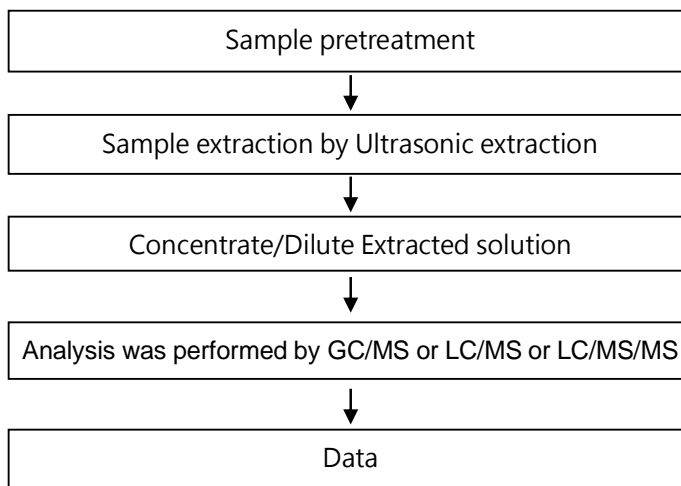


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Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



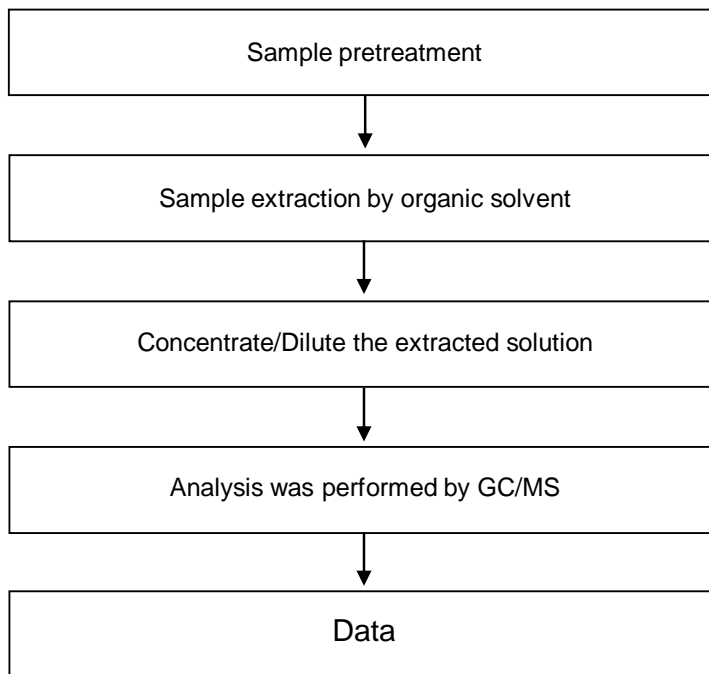
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Analytical flow chart

* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



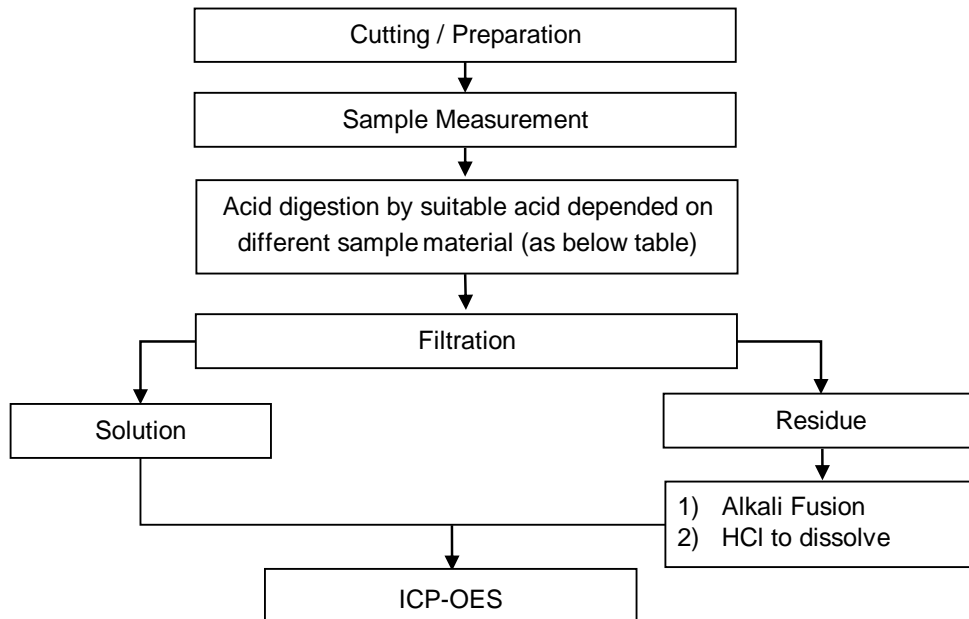
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Flow Chart of digestion for the elements analysis performed by ICP-OES

These samples were dissolved totally by pre-conditioning method according to below flow chart.



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Added appropriate reagent to total digestion

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Test Report

No.: ETR21602384

Date: 28-Jun-2021

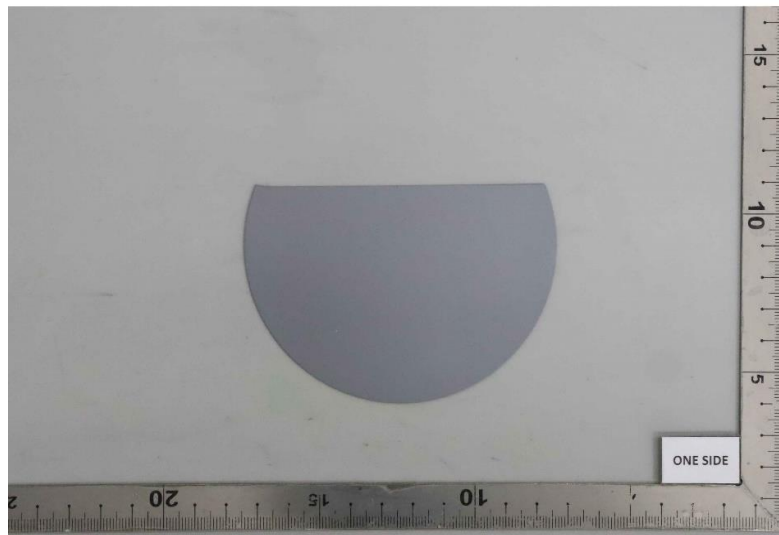
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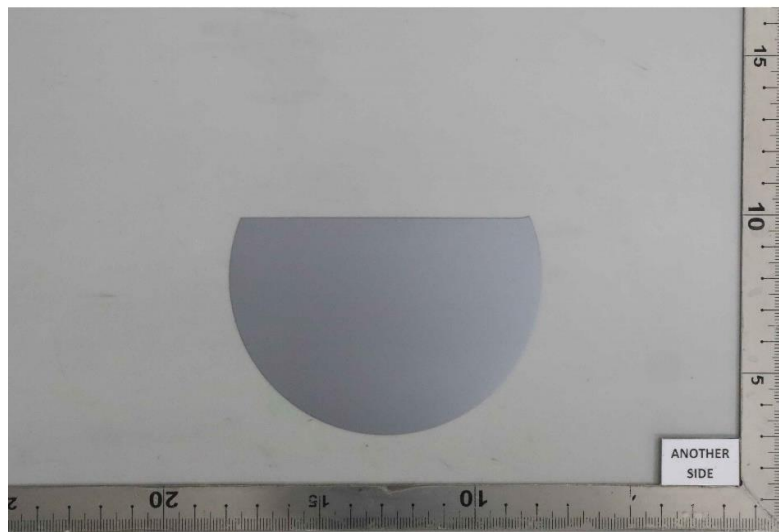
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* The tested sample / part is marked by an arrow if it's shown on the photo. *

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** End of Report **

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