

**Client : NanoYo Mfg (Thailand) Co.,Ltd.  
104/61 M.12  
T.Bangpla, A.Bangplee Samutprakarn 10540 Thailand**

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

Sample Description : NANOYO  
Sample No. : 1474239  
Sample Condition : As per attached photograph  
Manufacturer/Vendor : Nanoyo Mfg (Thailand) Co.,Ltd.  
Country of Origin : Thai  
Sample Receiving Date : 19-Mar-2008  
Testing Period : 19-Mar-2008 to 21-Mar-2008

Test Requested : In accordance with the RoHS Directive 2002/95/EC and its amendment directives

Test Method : (1) With reference to EPA Method 3050B for Lead Content. Analysis was performed by ICP-OES.  
(2) With reference to BS EN1122: 2001, Method B for Cadmium Content. Analysis was performed by ICP-OES.  
(3) With reference to EPA Method 3052 for Mercury Content. Analysis was performed by ICP-OES.  
(4) With reference to EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.  
(5) With reference to USEPA 3540C for PBB/PBDE content. Analysis was performed by GC/MS.

Test Results : Please refer to next page.

## CONCLUSION

Based on the performed tests on submitted samples, the result comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

**Signed for and on behalf of  
SGS (Thailand) Limited**



**Pornpana Lirathpong  
Hardlines Testing Manager**

TEST RESULTS

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Lead (Pb)	(1)	n.d.	2	1000
Cadmium (Cd)	(2)	n.d.	2	100
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium (CrVI)	(4)	n.d.	2	1000
sum of PBBs	(5)	n.d.	-	1000
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	-
Tribromobiphenyl		n.d.	5	-
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	-
Hexabromobiphenyl		n.d.	5	-
Heptabromobiphenyl		n.d.	5	-
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	-
Decabromobiphenyl		n.d.	5	-

1149790

*This Test Report is issued by the Company under its General Conditions of Service printed overleaf and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability, indemnification and jurisdiction issues defined therein.*

*Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.*

*Unless otherwise stated the results shown in this Test Report refer only to the sample (s) tested and such sample (s) are retained for 30 days only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.*

TEST RESULTS

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-	1000
Monobromodiphenyl ether		n.d.	5	-
Dibromodiphenyl ether		n.d.	5	-
Tribromodiphenyl ether		n.d.	5	-
Tetrabromodiphenyl ether		n.d.	5	-
Pentabromodiphenyl ether		n.d.	5	-
Hexabromodiphenyl ether		n.d.	5	-
Heptabromodiphenyl ether		n.d.	5	-
Octabromodiphenyl ether		n.d.	5	-
Nonabromodiphenyl ether		n.d.	5	-
Decabromodiphenyl ether		n.d.	5	-
Sum of PBDEs (Mono to Deca)		n.d.	-	-

Test Part Description  
Result (1) clear liquid

Note :

- (1) mg/kg = ppm
- (2) n.d. = Not Detected
- (3) MDL = Method Detection Limit
- (4) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE in polymeric is exempt.
- (5) "-" = Not regulated

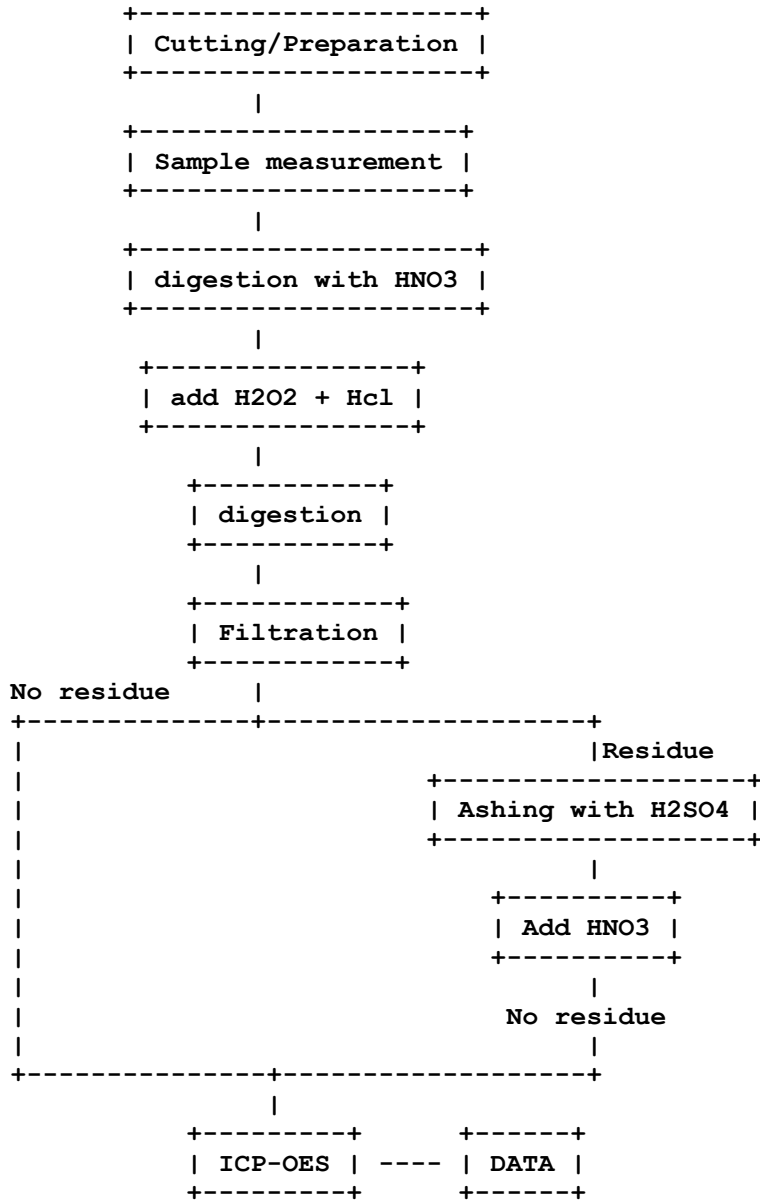
1149790

*This Test Report is issued by the Company under its General Conditions of Service printed overleaf and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability, indemnification and jurisdiction issues defined therein.*

*Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.*

*Unless otherwise stated the results shown in this Test Report refer only to the sample (s) tested and such sample (s) are retained for 30 days only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.*

Flow chart of digestion (EPA 3050B for Pb)



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Siam Polarwut  
 Section Chief : Laddawan Uranpitr

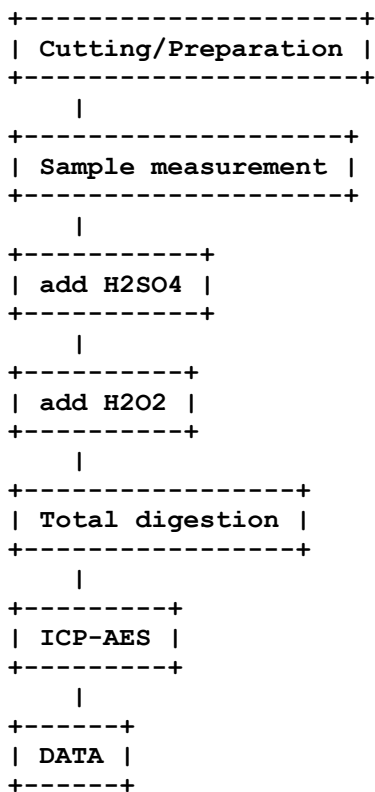
1149790

This Test Report is issued by the Company under its General Conditions of Service printed overleaf and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability, indemnification and jurisdiction issues defined therein.

Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this Test Report refer only to the sample (s) tested and such sample (s) are retained for 30 days only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.

Flow chart of digestion (EN 1122 Method B for Cd)



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Siam Polarwut  
Section Chief : Laddawan Uranpitr

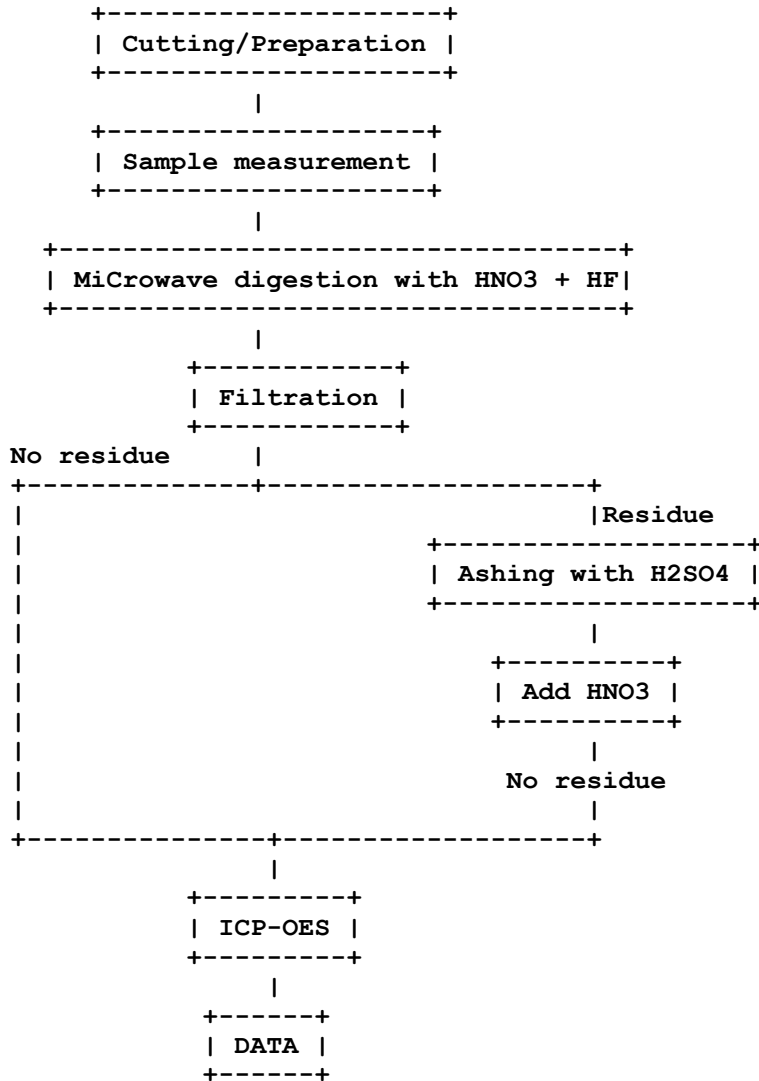
1149790

This Test Report is issued by the Company under its General Conditions of Service printed overleaf and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability, indemnification and jurisdiction issues defined therein.

Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this Test Report refer only to the sample (s) tested and such sample (s) are retained for 30 days only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.

Flow chart of digestion (EPA 3052 for Hg)

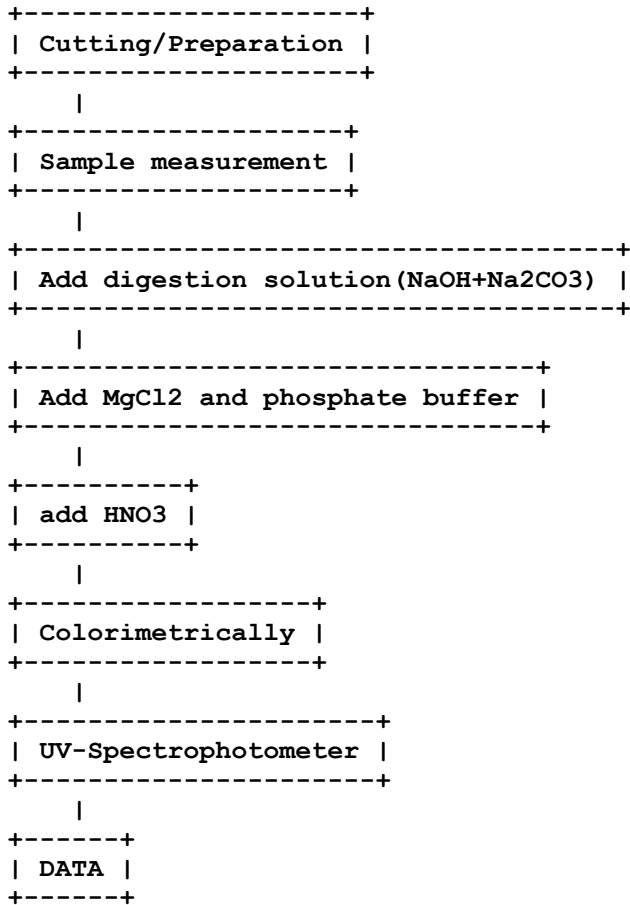


The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Siam Polarwut  
Section Chief : Laddawan Uranpitr

1149790 This Test Report is issued by the Company under its General Conditions of Service printed overleaf and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability, indemnification and jurisdiction issues defined therein.  
Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.  
Unless otherwise stated the results shown in this Test Report refer only to the sample (s) tested and such sample (s) are retained for 30 days only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.

Flow chart of digestion (EPA 3060A,7196A for Cr(VI))



Operator : Varaporn Chaihanit  
 Section Chief : Laddawan Uranpitr

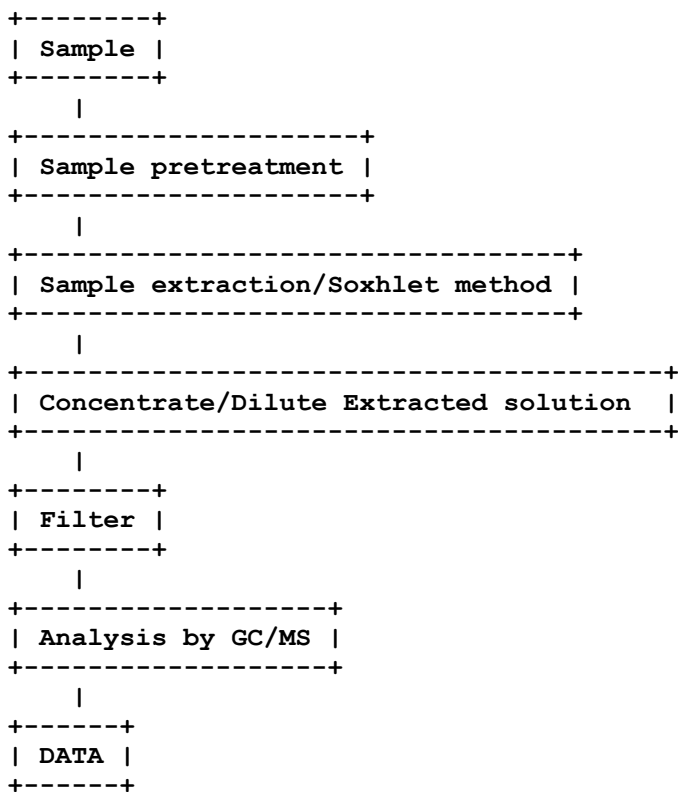
1149790

*This Test Report is issued by the Company under its General Conditions of Service printed overleaf and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability, indemnification and jurisdiction issues defined therein.*

*Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.*

*Unless otherwise stated the results shown in this Test Report refer only to the sample (s) tested and such sample (s) are retained for 30 days only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.*

Flow chart of PBBs/PBDEs



Operator : Prapapan Puengpatiparn

Section Chief : Sul kifli Mama

1149790

*This Test Report is issued by the Company under its General Conditions of Service printed overleaf and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability, indemnification and jurisdiction issues defined therein.*

*Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.*

*Unless otherwise stated the results shown in this Test Report refer only to the sample (s) tested and such sample (s) are retained for 30 days only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.*



SAMPLE/ATTACHMENT PICTURE



\*\*\*\*\* End of Report \*\*\*\*\*

1149790

*This Test Report is issued by the Company under its General Conditions of Service printed overleaf and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability, indemnification and jurisdiction issues defined therein.*

*Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.*

*Unless otherwise stated the results shown in this Test Report refer only to the sample (s) tested and such sample (s) are retained for 30 days only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.*