

**CV. MANUGGAL SEJAHTERA
PURI SURYA JAYA, CLUSTER TAMA ATHENA H3/27 GEDANGAN, SIDOARJO**

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

Sample Description	:	SORBDRY
Client's reference No.	:	2010010659
Batch/Lot No.	:	-
Part No.	:	-
Manufacturer/Vendor	:	-
Buyer	:	-
Country of Origin	:	-
Country of Destination	:	-
Sample Receiving Date	:	June 22, 2020
Test Performing Period	:	June 22, 2020 – July 02, 2020
Test Requested	:	Selected test (s) as requested by client.
Test Method(s) and Test Result(s)	:	Please refer to the next page(s).

**Signed for and on behalf of
PT. SGS Indonesia**



**Toto Waluyadi
Hardgood Lab Manager**

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European RoHS Directive 2011/65/EU ; recasting 2002/95/EC

Test Item(s)	Unit	Method	Result	MDL	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 and performed by ICP-OES	n.d	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 and performed by ICP-OES	n.d	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013+A1:2017 and performed by ICP-OES	n.d	2	1000
Hexavalent Chromium (Cr(VI))	mg/kg	With reference to IEC 62321-7-2:2017 and performed by UV-VIS	n.d	8	1000
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 and performed by GC-MS	n.d	-	1000
Monobromodiphenyl	mg/kg		n.d	5	-
Dibromodiphenyl	mg/kg		n.d	5	-
Tribromodiphenyl	mg/kg		n.d	5	-
Tetrabromodiphenyl	mg/kg		n.d	5	-
Pentabromodiphenyl	mg/kg		n.d	5	-
Hexabromodiphenyl	mg/kg		n.d	5	-
Heptabromodiphenyl	mg/kg		n.d	5	-
Octabromodiphenyl	mg/kg		n.d	5	-
Nonabromodiphenyl	mg/kg		n.d	5	-
Decabromodiphenyl	mg/kg		n.d	5	-
Sum of PBDEs	mg/kg		n.d	-	1000
Monobromodiphenyl ether	mg/kg		n.d	5	-
Dibromodiphenyl ether	mg/kg		n.d	5	-
Tribromodiphenyl ether	mg/kg		n.d	5	-
Tetrabromodiphenyl ether	mg/kg		n.d	5	-
Pentabromodiphenyl ether	mg/kg		n.d	5	-
Hexabromodiphenyl ether	mg/kg		n.d	5	-
Heptabromodiphenyl ether	mg/kg		n.d	5	-
Octabromodiphenyl ether	mg/kg		n.d	5	-
Nonabromodiphenyl ether	mg/kg	n.d	5	-	
Decabromodiphenyl ether	mg/kg	n.d	5	-	
Diisobutyl Phthalate (DIBP)	mg/kg	With reference to IEC 62321-8:2017 and performed by GC-MS	n.d.	50	1000
Dibutyl Phthalate (DBP)	mg/kg	n.d.	50	1000	
Benzyl Butyl Phthalate (BBP)	mg/kg	n.d.	50	1000	
Di-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	n.d.	50	1000	

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Test Item(s)	Unit	Method	Result	MDL	Limit
Dimethyl Fumarate (DMFu)	mg/kg	In House Method Analysis was performed by GC-MS	n.d.	0.1	-

- Note : 1.mg/kg = ppm ; 0.1wt%=1000 ppm
 2. n.d. = Not Detected
 3. MDL= Method Detection Limit
 4. “-“ = Not Regulated

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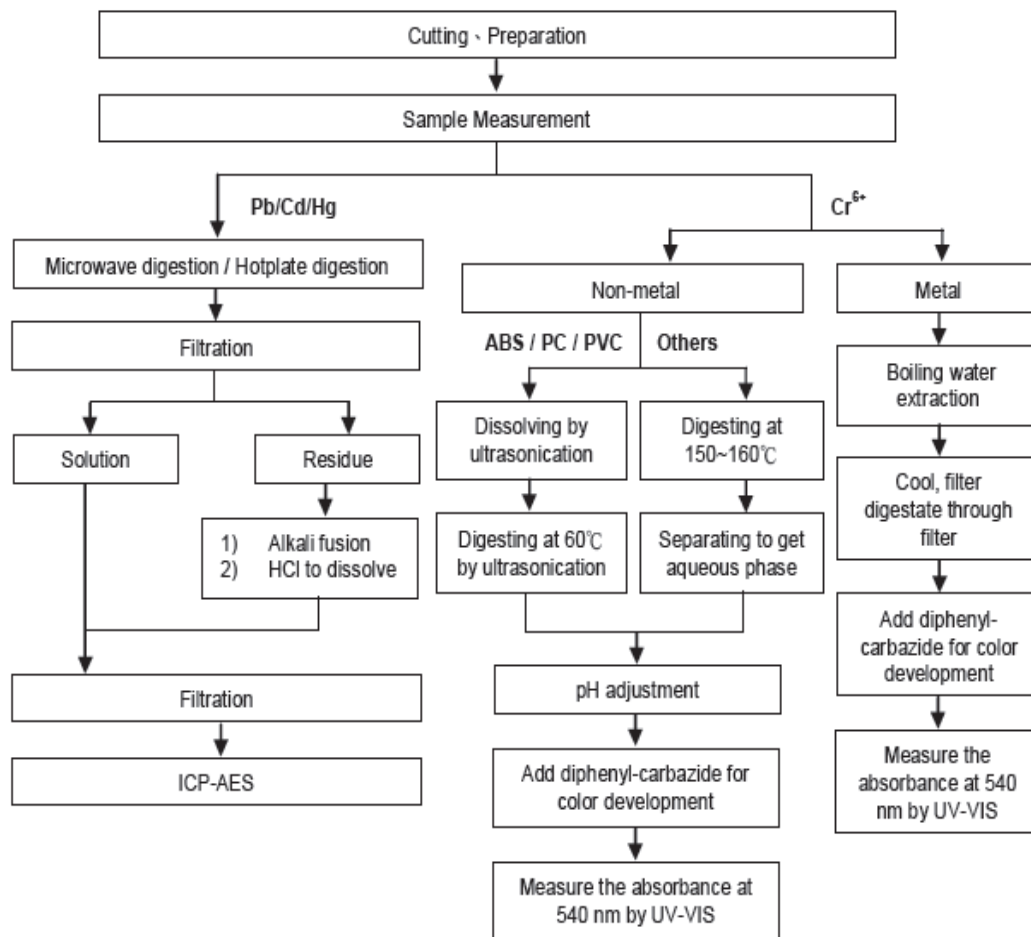
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Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- Technician : Jony Liu
- Supervisor: Ray Chang



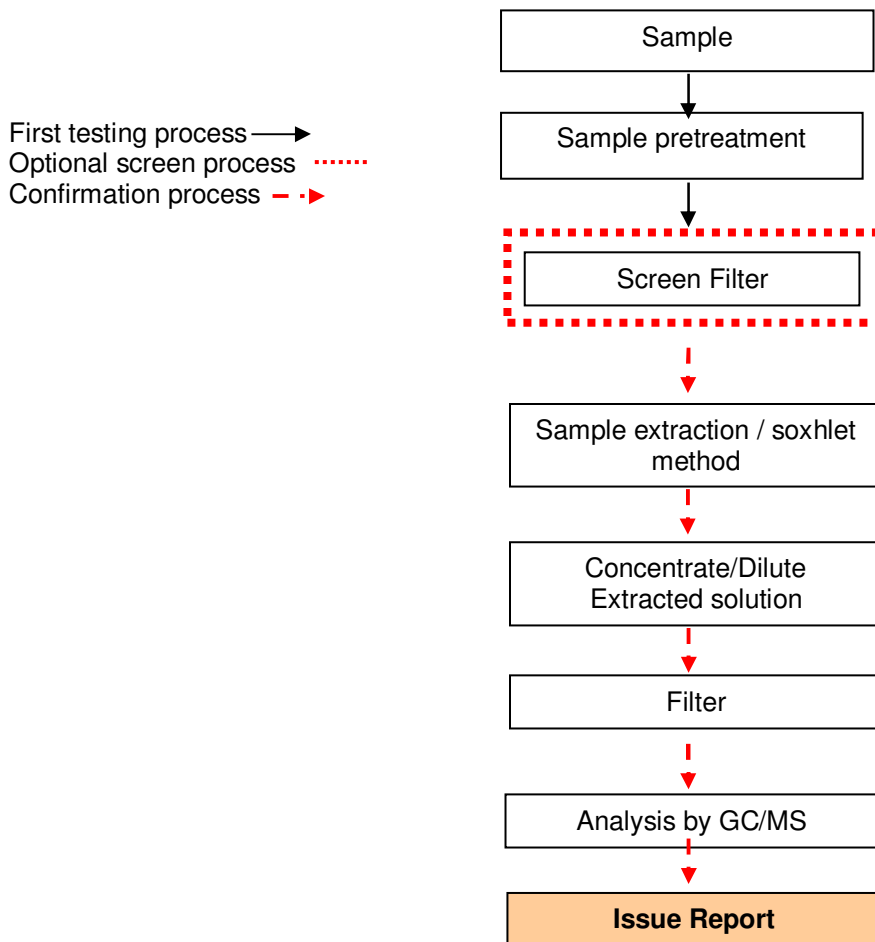
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PBB/PBDE analytical FLOW CHART**



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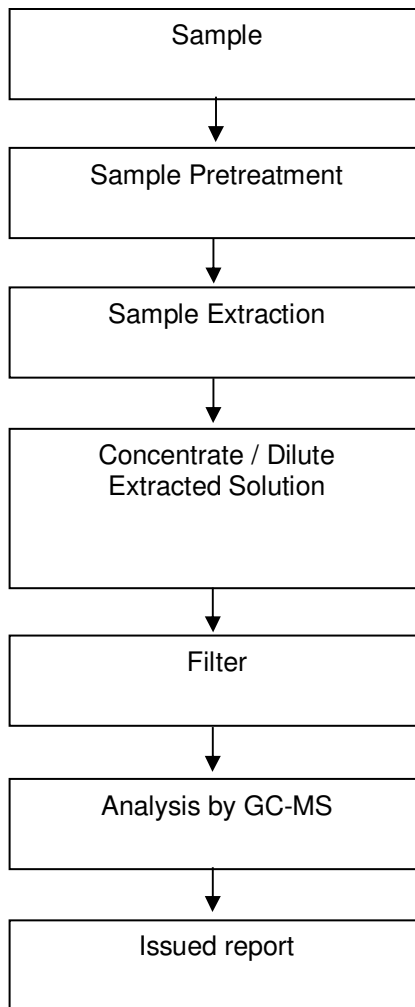
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 PURI SURYA JAYA, CLUSTER TAMA ATHENA H3/27 GEDANGAN, SIDOARJO
 Phthalate Analytical FLOW CHART**

- 1) Name of the person who made measurement : Erwanda Bayu P.
- 2) Name of the person in charge of measurement : Ade Apriliani



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TEST REPORT No: IDHG2010010659 Date: July 02, 2020

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Sample Picture



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

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