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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

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

Sample Description : TANTALUM POWDER
Style/Item No. : TANTALUM DIVISION

Sample Receiving Date : 2008/2/13

Testing Period : 2008/2/13 TO 2008/2/20

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

amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV)

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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

Test Item (s):	Method	Result	MDL
	(Refer to)	No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs		n.d.	-
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	(5)	n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : BLACK POWDER

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated



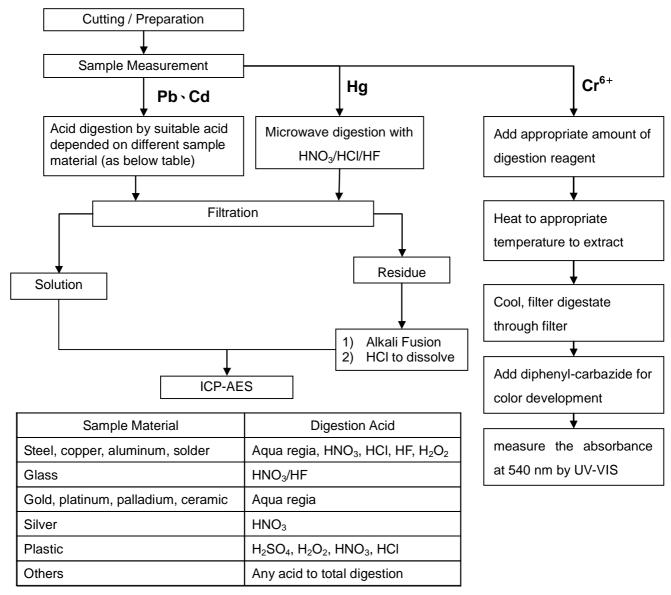
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.

 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung





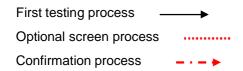
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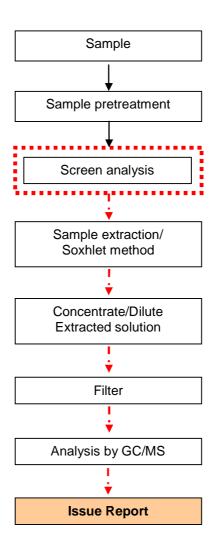
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PBB/PBDE analytical FLOW CHART



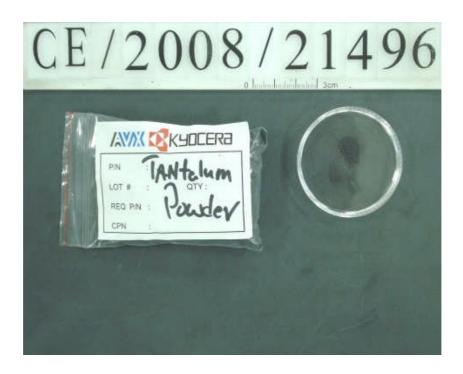




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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN





** End of Report **



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

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

Sample Description : TANTALUM WIRE
Style/Item No. : TANTALUM DIVISION

Sample Receiving Date : 2008/2/13

Testing Period : 2008/2/13 TO 2008/2/20

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

amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV)

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for metallic samples

by Spot test / Colorimetric Method.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of SGS TAIWAN LTD.

Chemical Laboratory - Taipei



AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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

Test Item (s):	Method	Result	MDL
	(Refer to)	No.1	WIDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 5
Sum of PBBs		n.d.	-
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
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : SILVER COLORED METAL WIRE



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



Note: 1. mg/kg = ppm

- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. According to 2005/717/EC DecaBDE is exempt.
- 5. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer.

Positive = Presence of Cr(VI) coating / surface layer;

the detected concentration in boiling-water-extraction solution is equal or greater

than 0.02 mg/kg with 50 cm² sample surface area.

6. "-" = Not Regulated

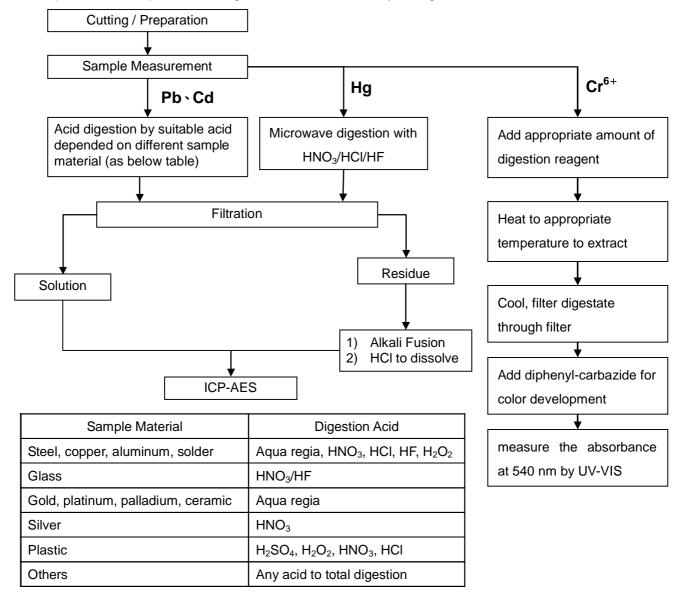


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- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung





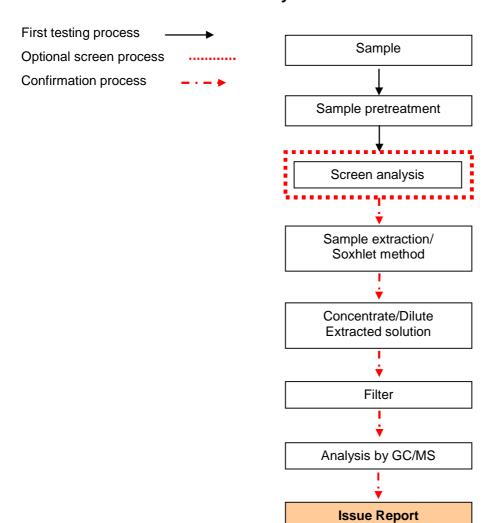
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PBB/PBDE analytical FLOW CHART





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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN





** End of Report **



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

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

Sample Description : GREEN TEFLON II
Style/Item No. : TANTALUM DIVISION

Sample Receiving Date : 2008/2/13

Testing Period : 2008/2/13 TO 2008/2/20

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

amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV)

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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

Test Item (s):	Method	Result	MDL
	(Refer to)	No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs		n.d.	-
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
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : GREEN LIQUID

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

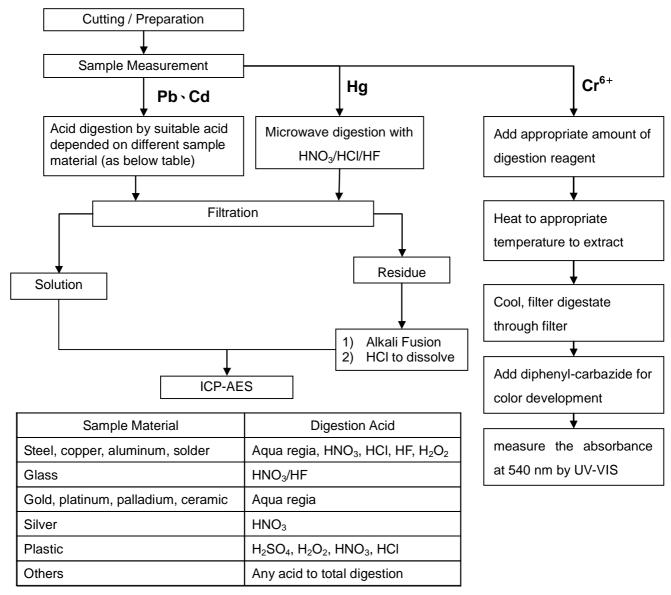
5. "-" = Not Regulated



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung





No.: CE/2008/21501

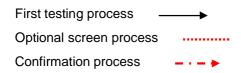
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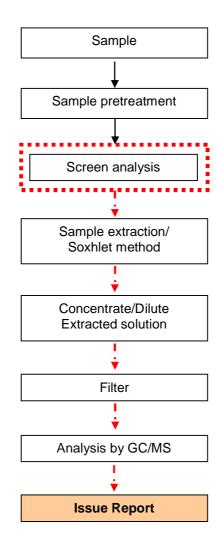
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART







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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN







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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

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

Sample Description : MANGANESE NITRATE
Style/Item No. : TANTALUM DIVISION

Sample Receiving Date : 2008/2/13

Testing Period : 2008/2/13 TO 2008/2/20

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

amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV)

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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

Test Item (s):	Method	Result	MDL
	(Refer to)	No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs		n.d.	-
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
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : PINK PASTE

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated



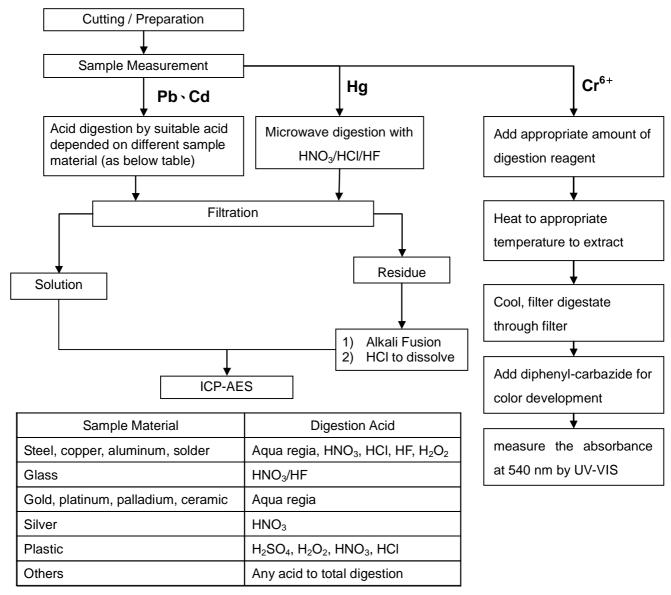
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

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

 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung





No.: CE/2008/21494

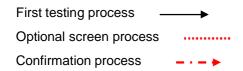
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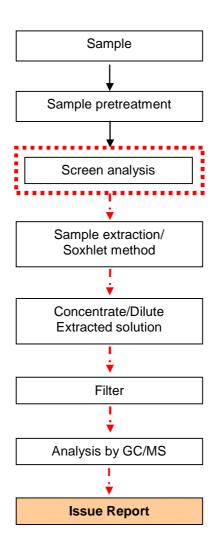
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART





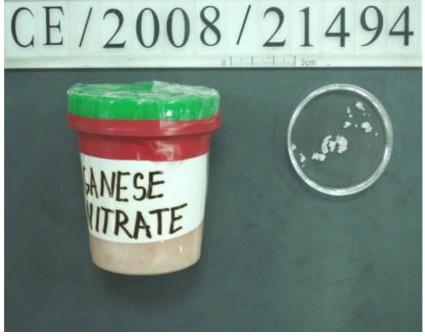


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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN







** End of Report **



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

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

Sample Description : GRAPHITE STD

Style/Item No. : TANTALUM DIVISION

Sample Receiving Date : 2008/1/31

Testing Period : 2008/1/31 TO 2008/2/13

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

amendment directives.

Test Method : With reference to IEC 62321, Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of

Chemical Laboratory - Taipei

SGS TAIWAN LTD.



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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

Test Item (s):	Method	Result	MDI
	(Refer to)	No.1	MDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs		n.d.	-
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
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-
Monobromobiphenyl ether	· <i>,</i>	n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : BLACK PASTE

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

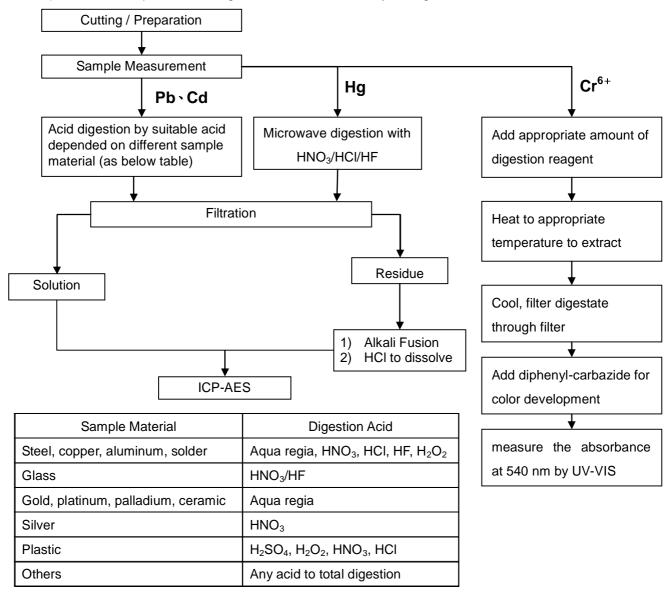


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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

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

 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

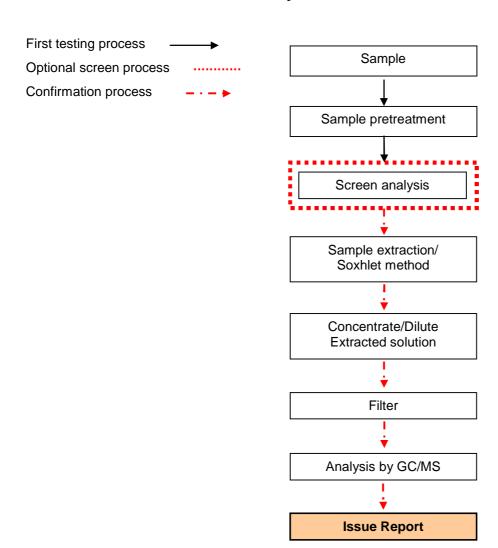




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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

PBB/PBDE analytical FLOW CHART





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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN





** End of Report **



Test Report No.: CE/2008/21499 Date: 2008/02/20 Page: 1 of 5

AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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

Sample Description : SILVER I

Style/Item No. : TANTALUM DIVISION

Sample Receiving Date : 2008/2/13

Testing Period : 2008/2/13 TO 2008/2/20

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

amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV)

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of SGS TAIWAN LTD.

Chemical Laboratory - Taipei



No.: CE/2008/21499 Date: 2008/02/20 Page: 2 of 5

AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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

Test Item (s):	Method	Result	MDI
	(Refer to)	No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs		n.d.	-
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
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : SILVER-GRAY COLORED LIQUID

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

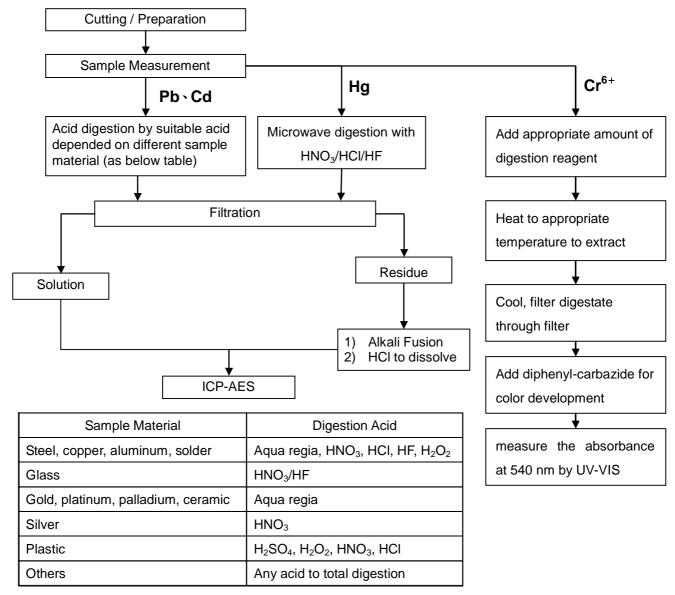


Test Report No. : CE/2008/21499 Date : 2008/02/20

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung





No.: CE/2008/21499

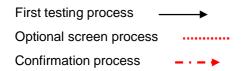
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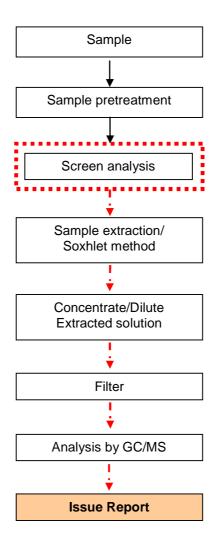
Page : 4 of 5

AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART







AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN





** End of Report **



No.: CE/2008/19550 Date: 2008/02/13 Page: 1 of 5

AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

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

Sample Description : SILICONE

Style/Item No. : TANTALUM DIVISION

Sample Receiving Date : 2008/1/31

Testing Period : 2008/1/31 TO 2008/2/13

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

amendment directives.

Test Method : With reference to IEC 62321, Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



No. : CE/2008/19550 Date : 2008/02/13 Page : 2 of 5

AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method	Result	MDL
	(Refer to)	No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs		n.d.	-
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
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : TRANSPARENT LIQUID

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

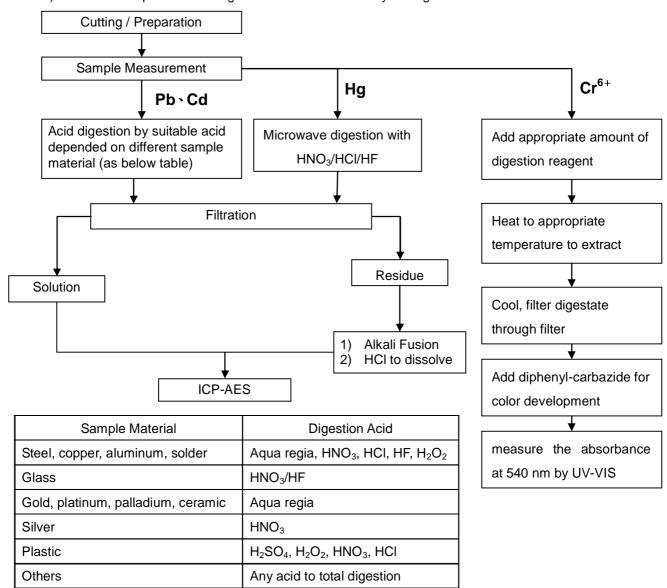
5. "-" = Not Regulated



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

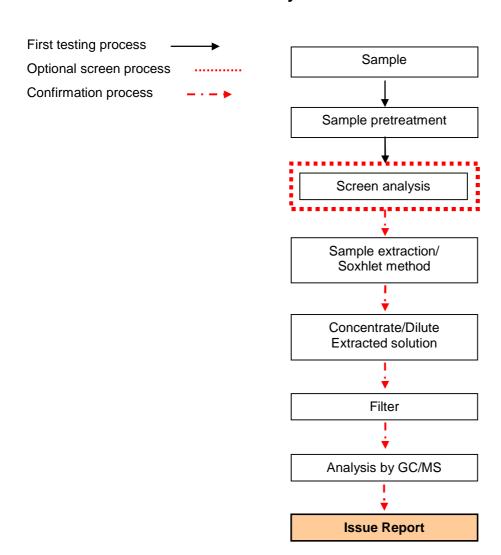




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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

PBB/PBDE analytical FLOW CHART





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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN





** End of Report **



Test Report No.: CE/2008/21498 Date: 2008/02/20 Page: 1 of 5

AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

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

Sample Description : PASTE II

Style/Item No. : TANTALUM DIVISION

Sample Receiving Date : 2008/2/13

Testing Period : 2008/2/13 TO 2008/2/20

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

amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV)

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of SGS TAIWAN LTD.

Chemical Laboratory - Taipei



AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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

Took Hom (a)	Method	Result	MDI	
Test Item (s):	(Refer to)	No.1	MDL	
Cadmium (Cd)	(1)	n.d.	2	
Lead (Pb)	(2)	n.d.	2	
Mercury (Hg)	(3)	n.d.	2	
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	
Sum of PBBs		n.d.	-	
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	
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-	
Monobromobiphenyl ether		n.d.	5	
Dibromobiphenyl ether		n.d.	5	
Tribromobiphenyl ether		n.d.	5	
Tetrabromobiphenyl ether		n.d.	5	
Pentabromobiphenyl ether		n.d.	5	
Hexabromobiphenyl ether		n.d.	5	
Heptabromobiphenyl ether		n.d.	5	
Octabromobiphenyl ether		n.d.	5	
Nonabromobiphenyl ether		n.d.	5	
Decabromobiphenyl ether		n.d.	5	
Sum of PBDEs (Mono to Deca)		n.d.	-	

TEST PART DESCRIPTION:

NO.1 : GRAY PASTE

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

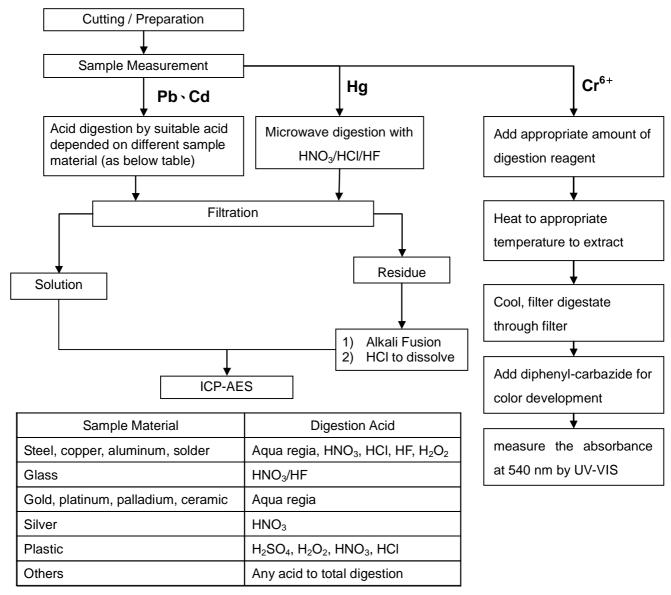


Test Report No. : CE/2008/21498 Date : 2008/02/20

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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung





No.: CE/2008/21498

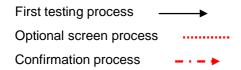
Date: 2008/02/20

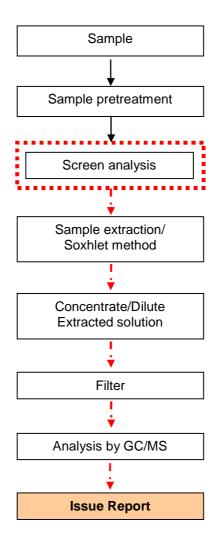
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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART



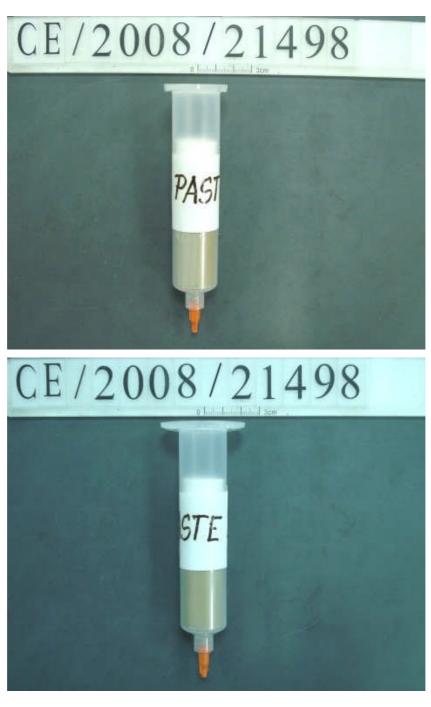




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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN





** End of Report **



Test Report No.: CE/2008/19553 Date: 2008/02/13 Page: 1 of 5

AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

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

Sample Description : SOLDER PASTE Style/Item No. : SAC4-325-GM5

Sample Receiving Date : 2008/1/31

Testing Period : 2008/1/31 TO 2008/2/13

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

amendment directives.

Test Method : With reference to IEC 62321, Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium by UV/Vis

Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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

T	Method	Result		
Test Item (s):	(Refer to)	No.1	MDL	
Cadmium (Cd)	(1)	n.d.	2	
Lead (Pb)	(2)	6	2	
Mercury (Hg)	(3)	n.d.	2	
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	
Sum of PBBs		n.d.	-	
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	(5)	n.d.	5	
Octabromobiphenyl		n.d.	5	
Nonabromobiphenyl		n.d.	5	
Decabromobiphenyl		n.d.	5	
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-	
Monobromobiphenyl ether		n.d.	5	
Dibromobiphenyl ether		n.d.	5	
Tribromobiphenyl ether		n.d.	5	
Tetrabromobiphenyl ether		n.d.	5	
Pentabromobiphenyl ether		n.d.	5	
Hexabromobiphenyl ether		n.d.	5	
Heptabromobiphenyl ether		n.d.	5	
Octabromobiphenyl ether		n.d.	5	
Nonabromobiphenyl ether		n.d.	5	
Decabromobiphenyl ether		n.d.	5	
Sum of PBDEs (Mono to Deca)		n.d.	-	

TEST PART DESCRIPTION:

NO.1 : GRAY PASTE

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

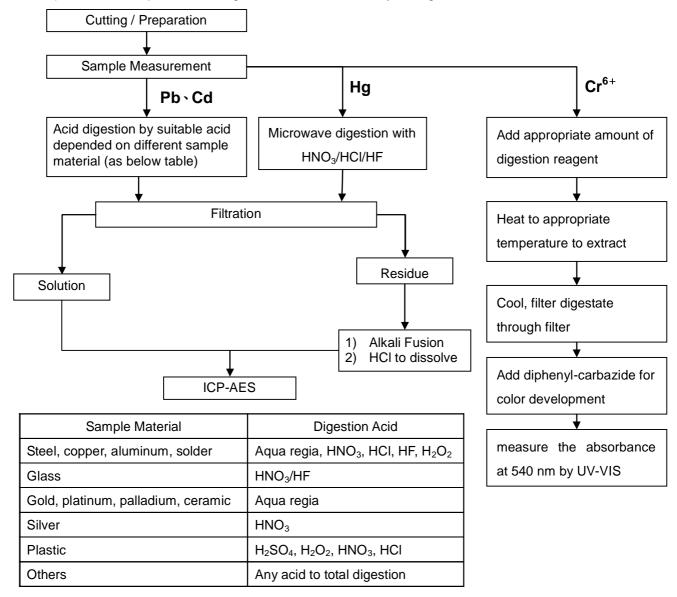


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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

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

 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



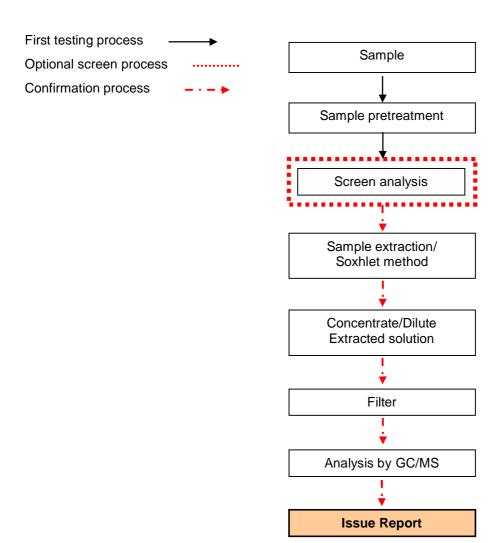


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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



PBB/PBDE analytical FLOW CHART





Test Report No. : CE/2008/19553 Date : 2008/

Date: 2008/02/13 Page: 5 of 5

AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN





** End of Report **



No.: CE/2008/19544A Date: 2008/02/20 Page: 1 of 7

AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

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

Sample Description : LEADFRAME NILO-Sn I Style/Item No. : TANTALUM DIVISION

Sample Receiving Date : 2008/01/31

Testing Period : 2008/01/31 TO 2008/02/13 AND 2008/02/13 TO 2008/02/20

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

amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV)

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for metallic

samples by Spot test / Colorimetric Method.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

* This reports is added testing and combined with CE/2008/19544 *

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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

Test Item (s):	Method	Re	Result	
	(Refer to)	No.1	No.2	MDL
Cadmium (Cd)	(1)	n.d.	n.d.	2
Lead (Pb)	(2)	n.d.	n.d.	2
Mercury (Hg)	(3)	n.d.	n.d.	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	Negative	See Note 5
Sum of PBBs		n.d.	n.d.	-
Monobromobiphenyl		n.d.	n.d.	5
Dibromobiphenyl		n.d.	n.d.	5
Tribromobiphenyl		n.d.	n.d.	5
Tetrabromobiphenyl		n.d.	n.d.	5
Pentabromobiphenyl		n.d.	n.d.	5
Hexabromobiphenyl		n.d.	n.d.	5
Heptabromobiphenyl		n.d.	n.d.	5
Octabromobiphenyl		n.d.	n.d.	5
Nonabromobiphenyl		n.d.	n.d.	5
Decabromobiphenyl		n.d.	n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	n.d.	-
Monobromobiphenyl ether		n.d.	n.d.	5
Dibromobiphenyl ether		n.d.	n.d.	5
Tribromobiphenyl ether		n.d.	n.d.	5
Tetrabromobiphenyl ether		n.d.	n.d.	5
Pentabromobiphenyl ether		n.d.	n.d.	5
Hexabromobiphenyl ether		n.d.	n.d.	5
Heptabromobiphenyl ether		n.d.	n.d.	5
Octabromobiphenyl ether		n.d.	n.d.	5
Nonabromobiphenyl ether		n.d.	n.d.	5
Decabromobiphenyl ether		n.d.	n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	n.d.	-

TEST PART DESCRIPTION:

NO.1 : PLATING LAYER OF SILVER COLORED METAL (CE/2008/19544)
NO.2 : BASE MATERIAL OF SILVER COLORED METAL (CE/2008/19544)



No.: CE/2008/19544A Date: 2008/02/20 Page: 3 of 7

AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN Note: 1. mg/kg = ppm

- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. According to 2005/717/EC DecaBDE is exempt.
- 5. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer.

Positive = Presence of Cr(VI) coating / surface layer;

the detected concentration in boiling-water-extraction solution is equal or greater

than 0.02 mg/kg with 50 cm² sample surface area.

6. "-" = Not Regulated



No.: CE/2008/19544A Date: 2008/02/20 Page: 4 of 7

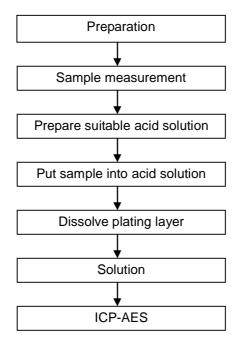
AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



NO.1

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

Flow Chart of Stripping method for metal analysis



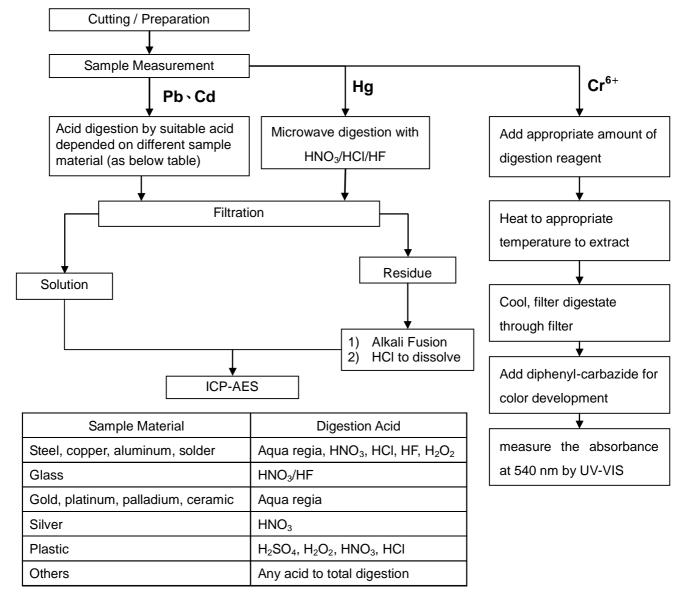


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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN NO.2

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

 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung





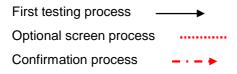
No.: CE/2008/19544A Date: 2008/02/20

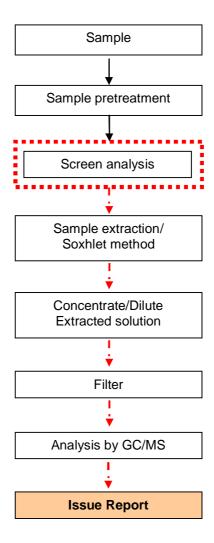
Page : 6 of 7

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PBB/PBDE analytical FLOW CHART







No.: CE/2008/19544A Da

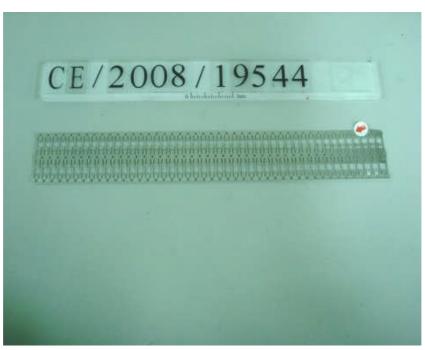
Date: 2008/02/20

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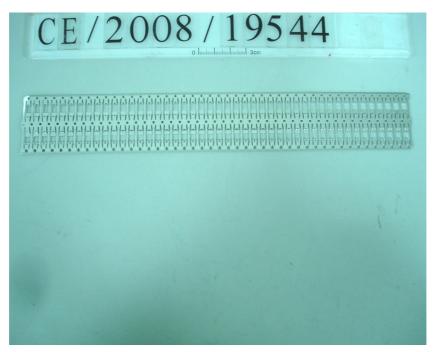
AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



NO.1



NO.2



** End of Report **



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

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

Sample Description : MOULDING GOLD GREEN Style/Item No. : TANTALUM DIVISION

Sample Receiving Date : 2008/1/31

Testing Period : 2008/1/31 TO 2008/2/13

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

amendment directives.

Test Method : With reference to IEC 62321, Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

Test Result(s) : Please refer to next page(s).

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN



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

Tool Hom (a).	Method	Result	MDL
Test Item (s):	(Refer to)	No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs		n.d.	-
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	(5)	n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : YELLOWISH BROWN LUMP

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

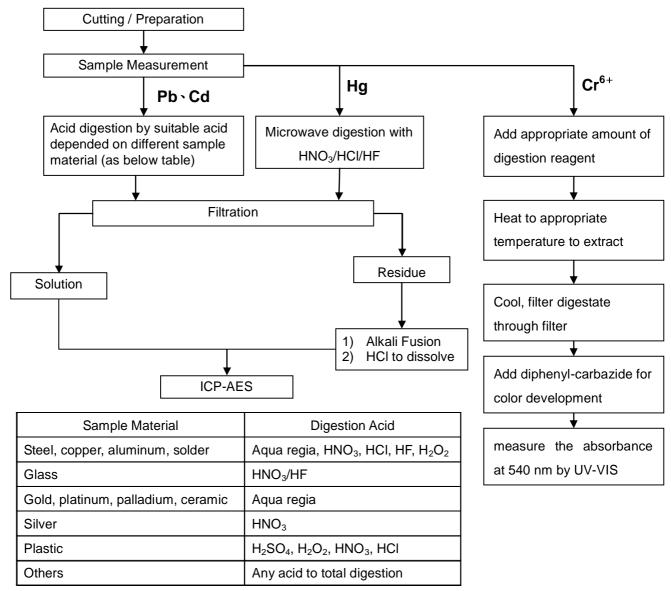
5. "-" = Not Regulated



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AVX / KYOCERA HONG KONG LTD. TAIWAN BRANCH 18F-6, 77 HSIN TAI WU RD., SEC. 1, HSICHIH, 221, TAIPEI HSIEN, TAIWAN

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



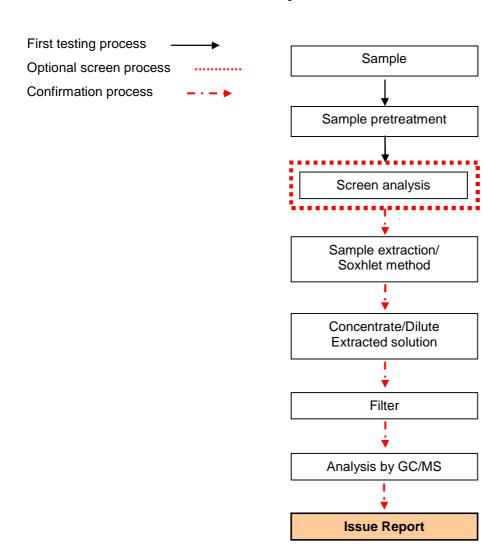


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PBB/PBDE analytical FLOW CHART

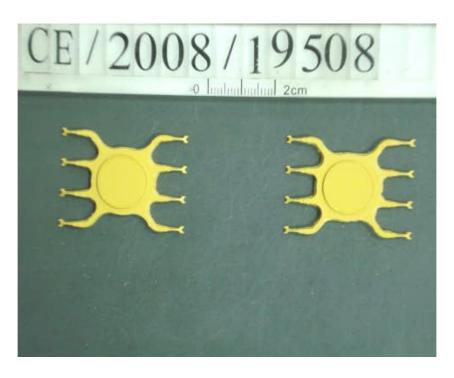




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** End of Report **