

TEST REPORT

Applicant	:	Mid Ocean Brands B.V.	
Address	:	Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.	
Manufacturer	:	Mid Ocean Brands B.V.	
Address	:	Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.	
The following samples were submitted and identified on behalf of the clients as:			
Sample Name	:	Wireless Speaker	
Trade Name	:	No data available	
Batch No	:	No data available	
Model No.	:	MO9155	
Series No.	:	MO9609	
Customer Statement	:	All models are same as the samples except model name and appearance, they have the same structure/circuit.	
Sample Received Date	:	Apr.13,2026	
Testing Period	:	Apr.13,2026 to Apr.20,2026	
Test Results	:	For details refer to attached page(s).	
Test Requested	:	For details refer to attached page(s).	
REMARKS: N/A			
Revised Statement	:	N/A	

Laboratory Accreditation : IAS Testing Laboratory TL-1329

Signed for and on behalf of HRL

Dylan Chow
Dept Manager




All test reports issued by this laboratory are electronically signed using UKEY digital signatures. Reports with missing or damaged e-signatures shall be deemed invalid..

NOTE: IAS is International Accreditation Service. www.iasonline.org

IAS is ILAC/IAF Mutual Recognition Arrangement (MRA) Signatory.

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TEST REPORT

Summary of Test Results:

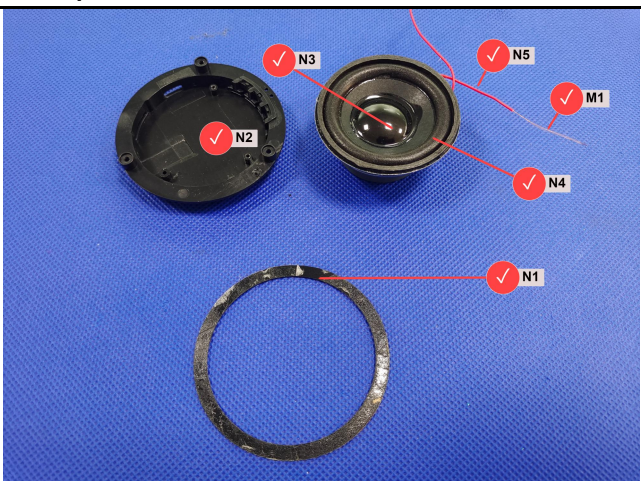
Test Requested		Conclusion
A	European Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment & EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances	---
	1. Cadmium (Cd), Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr (VI)), PBBs, PBDEs content on submitted samples.	PASS
	2. Di (2-ethyl hexyl)-phthalate (DEHP), Dibutyl phthalate (DBP), Butylbenzyl phthalate (BBP), Diisobutyl phthalate (DIBP) content on submitted samples.	PASS
	Remarks: N/A = Not Applicable	

(To be continued)

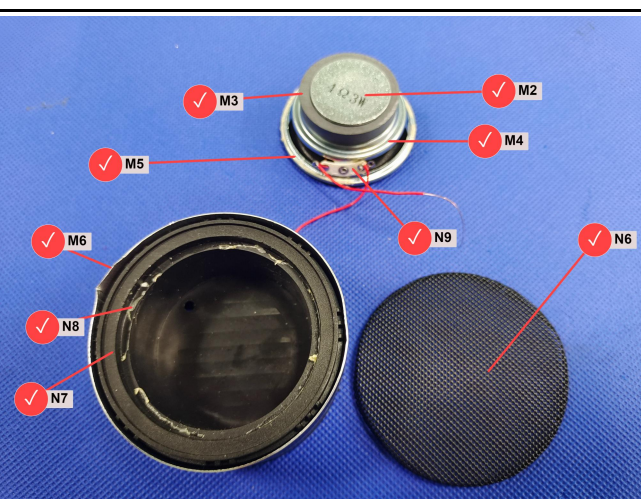
Sample Information:

Description & Photo of the submitted sample :

Nonmetallic samples			Metal-like samples		
Description		ID.	ID.	Description	
Black	Soft rubber	N1	M1	Gold	Metal
Black	Plastic	N2			
Black	Plastic	N3			
Black	Soft rubber	N4			
Black	Plastic	N5			



Nonmetallic samples			Metal-like samples		
Description		ID.	ID.	Description	
Black	Coating	N6	M2	Silver	Metal
Black	Plastic	N7	M3	Grey	Metal
White	Soft rubber	N8	M4	Silver	Metal
White	Plastic	N9	M5	Silver	Metal
			M6	Silver	Metal

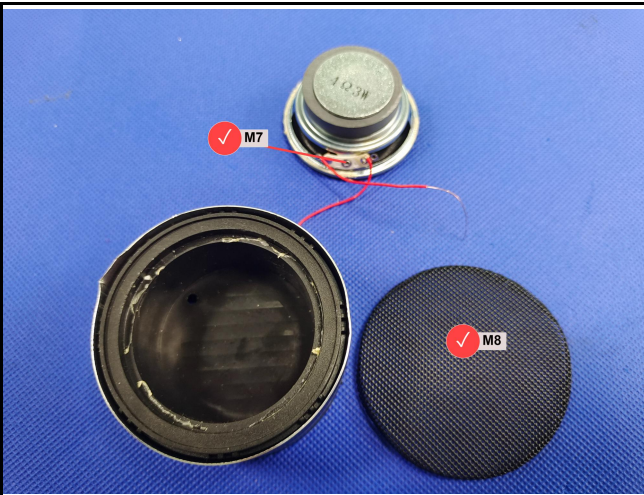


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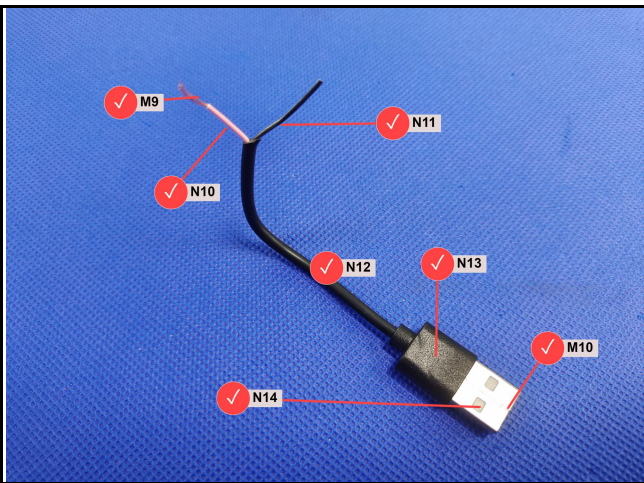
TEST REPORT

Description & Photo of the submitted sample:

Nonmetallic samples			Metal-like samples		
Description		ID.	ID.	Description	
			M7	Silver	Metal
			M8	Silver	Metal



Nonmetallic samples			Metal-like samples		
Description		ID.	ID.	Description	
Pink	Soft rubber	N10	M9	Gold	Metal
Black	Soft rubber	N11	M10	Silver	Metal
Black	Soft rubber	N12			
Black	Plastic	N13			
White	Plastic	N14			

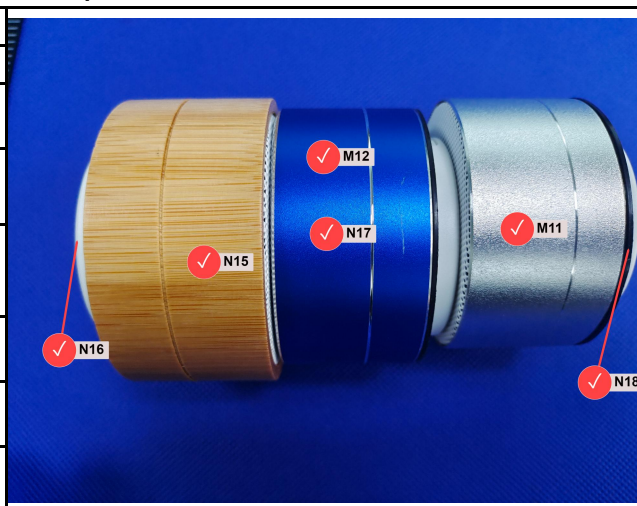


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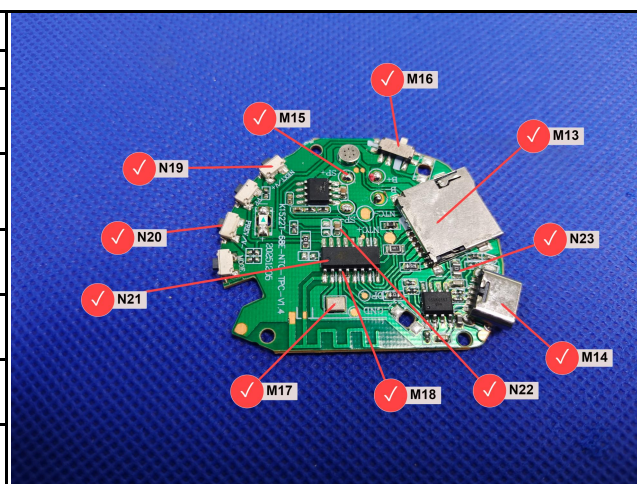
TEST REPORT

Description & Photo of the submitted sample :

Nonmetallic samples			Metal-like samples		
Description		ID.	ID.	Description	
Natural	Plastic	N15	M11	Silver	Metal
White	Plastic	N16	M12	Silver	Metal
Metallic Blue	Coating	N17			
Black	Soft rubber	N18			



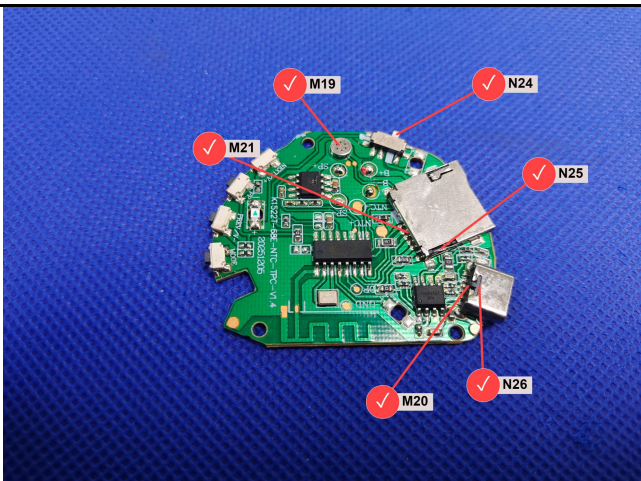
Nonmetallic samples			Metal-like samples		
Description		ID.	ID.	Description	
Beige	Plastic	N19	M13	Silver	Metal
Black	Plastic	N20	M14	Silver	Metal
Black	Electronic components	N21	M15	Silver	Solder
Green	Printed Circuit Board	N22	M16	Silver	Metal
Black	Electronic components	N23	M17	Silver	Metal
			M18	Silver	Metal

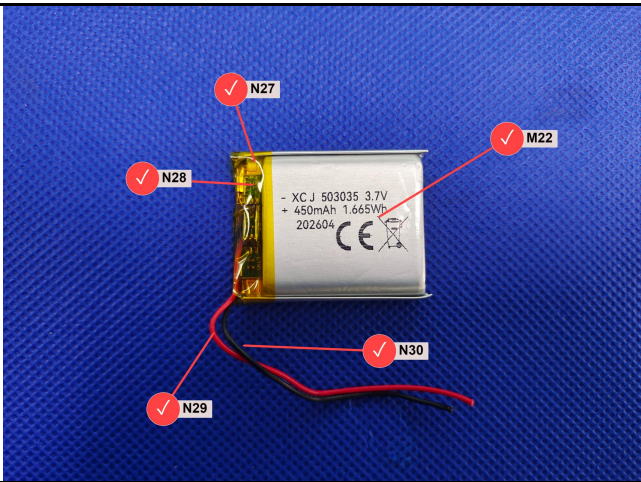


(To be continued)

TEST REPORT

Description & Photo of the submitted sample :

Nonmetallic samples			Metal-like samples		
Description		ID.	ID.	Description	
White	Plastic	N24		M19	Silver Metal
Black	Plastic	N25		M20	Silver Metal
Black	Plastic	N26		M21	Silver Metal

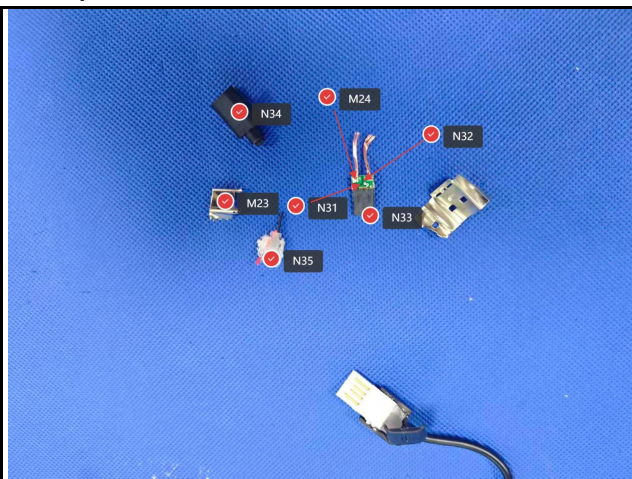
Nonmetallic samples			Metal-like samples		
Description		ID.	ID.	Description	
Yellow	Plastic	N27		M22	Silver Metal
Green	Printed Circuit Board	N28			
Red	Soft rubber	N29			
Black	Soft rubber	N30			

(To be continued)

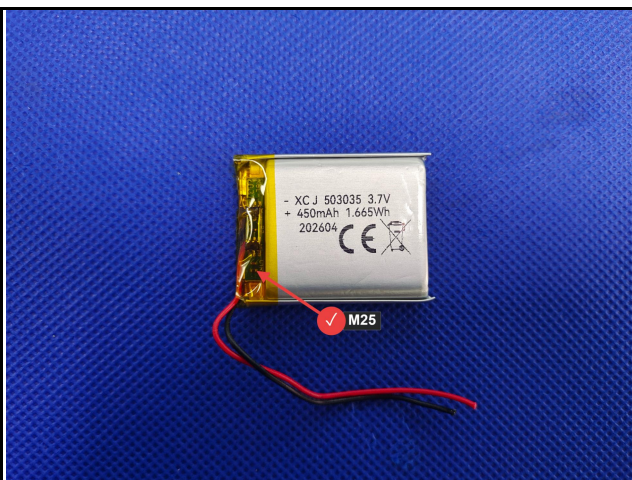
TEST REPORT

Description & Photo of the submitted sample :

Nonmetallic samples			Metal-like samples		
Description		ID.	ID.	Description	
Green	Printed Circuit Board	N31	M23	Silver	Metal
Black	Electronic components	N32			
Grey	Plastic	N33		Silver	Solder
Black	Plastic	N34			
Transparent	Plastic	N35			



Nonmetallic samples			Metal-like samples		
Description		ID.	ID.	Description	
			M25	Silver	Solder



(To be continued)

TEST REPORT

Test Result(s):

A.1 Cadmium (Cd), Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr (VI)), PBBs, PBDEs content on submitted samples

A.1.1 Screening test for the specified hazardous substances of RoHS for the selected materials of the submitted sample:

- Heavy Metal (Cadmium, Chromium, Mercury, Lead) Content Test
- Bromine Content Test

Test Method: According to IEC62321-3-1:2013, analyzed with Energy Dispersive X-ray Fluorescence Spectrometers.

Test item	Test Result									Conclusion
	N1	N2	N3	N4	N5	N6	N7	N8	N9	
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Cd	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Cr	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Br	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass

Test item	Test Result									Conclusion
	N10	N11	N12	N13	N14	N15	N16	N17	N18	
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Cd	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Cr	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Br	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass

(To be continued)

TEST REPORT

Test item	Test Result									Conclusion
	N19	N20	N21	N22	N23	N24	N25	N26	N27	
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Cd	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Cr	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Br	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass

Test item	Test Result									Conclusion
	N28	N29	N30	N31	N32	N33	N34	N35	M1	
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Cd	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Cr	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Br	BL	BL	BL	BL	BL	BL	BL	BL	N/A	Pass

Test item	Test Result									Conclusion
	M2	M3	M4	M5	M6	M7	M8	M9	M10	
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Cd	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Cr	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Br	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Pass

(To be continued)

TEST REPORT

Test item	Test Result									Conclusion
	M11	M12	M13	M14	M15	M16	M17	M18	M19	
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Cd	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Cr	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
Br	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Pass

Test item	Test Result									Conclusion
	M20	M21	M22	M23	M24	M25	N/A	N/A	N/A	
Pb	BL	BL	BL	BL	BL	BL	N/A	N/A	N/A	Pass
Cd	BL	BL	BL	BL	BL	BL	N/A	N/A	N/A	Pass
Hg	BL	BL	BL	BL	BL	BL	N/A	N/A	N/A	Pass
Cr	BL	BL	BL	BL	BL	BL	N/A	N/A	N/A	Pass
Br	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Pass

Remark:

1. BL = below the limit
2. OL = over the limit
3. X = inconclusive, chemical confirm test is needed
4. N/A = Not Applicable
5. Inconclusive = result is intermediate between "OL" and "BL"
6. "X" = the screening result was inconclusive(X) or over limit (OL), thus further confirmation test was
7. conducted, results are listed in A.1.2 and A.1.3.
8. mg/kg = milligram per kilogram = ppm
9. N.D = not detected
10. Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.1µg/cm².
11. Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than 0.13µg/cm²
12. When perform screening tests, it is the result on total Br while test item on restricted substances is PBBs/PBDEs, it is the result on total Cr while test item on restricted substances is Cr6+.
13. Pb, Cd, Hg, Cr and Br results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr6+) and GC-MS (for PBBs, PBDEs) is needed to be performed, if the concentration falls into the inconclusive area according to IEC 62321-3-1:2013.

(To be continued)

TEST REPORT

A.1.2 Test for Heavy Metals

- Lead, Cadmium, Hexavalent Chromium and Mercury

Test Method: According to IEC 62321-4:2013+A1:2017 & IEC 62321-5:2013 & IEC 62321-7-1:2015 & IEC 62321-7-2:2017, Analysis was conducted by ICP-OES, UV-VIS.

Test item	unit	Test Result							Conclusion
		NA	NA	NA	NA	NA	NA	NA	
Pb	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Cd	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Hg	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	µg/cm ²	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

Remark:

1. N/A = Not Applicable

2. mg/kg = milligram per kilogram = ppm

3. N.D = not detected

(To be continued)

TEST REPORT

A.1.3 Test for Flame retardants

Test Method: According to IEC 62321-6:2015, Analysis was conducted by Gas Chromatography and Mass Spectrometry (GC-MS).

Test item	Test Result (mg/kg)					RL (mg/kg)	Requirement (mg/kg)
	N/A	N/A	N/A	N/A	N/A		
Sum of PBBs	N/A	N/A	N/A	N/A	N/A	30	1000
Monobromobiphenyl	N/A	N/A	N/A	N/A	N/A	30	--
Dibromobiphenyl	N/A	N/A	N/A	N/A	N/A	30	--
Tribromobiphenyl	N/A	N/A	N/A	N/A	N/A	30	--
Tetrabromobiphenyl	N/A	N/A	N/A	N/A	N/A	30	--
Pentabromobiphenyl	N/A	N/A	N/A	N/A	N/A	30	--
Hexabromobiphenyl	N/A	N/A	N/A	N/A	N/A	30	--
Heptabromobiphenyl	N/A	N/A	N/A	N/A	N/A	30	--
Octabromobiphenyl	N/A	N/A	N/A	N/A	N/A	30	--
Nonabromobiphenyl	N/A	N/A	N/A	N/A	N/A	30	--
Decabromobiphenyl	N/A	N/A	N/A	N/A	N/A	30	--
Sum of PBDEs	N/A	N/A	N/A	N/A	N/A	30	1000
Monobromobiphenyl ether	N/A	N/A	N/A	N/A	N/A	30	--
Dibromobiphenyl ether	N/A	N/A	N/A	N/A	N/A	30	--
Tribromobiphenyl ether	N/A	N/A	N/A	N/A	N/A	30	--
Tetrabromobiphenyl ether	N/A	N/A	N/A	N/A	N/A	30	--
Pentabromobiphenyl ether	N/A	N/A	N/A	N/A	N/A	30	--
Hexabromobiphenyl ether	N/A	N/A	N/A	N/A	N/A	30	--
Heptabromobiphenyl ether	N/A	N/A	N/A	N/A	N/A	30	--
Octabromobiphenyl ether	N/A	N/A	N/A	N/A	N/A	30	--
Nonabromobiphenyl ether	N/A	N/A	N/A	N/A	N/A	30	--
Decabromobiphenyl ether	N/A	N/A	N/A	N/A	N/A	30	--

Remark:

1. mg/kg = milligram per kilogram = ppm

2. RL = Report Limit

3. N.D = not detected

4. N/A = Not Applicable

(To be continued)

TEST REPORT

Remark1: XRF screening limits for different materials:

Element	Polymer	Metal	Composite Materials
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	N/A	$BL \leq (250-3\sigma) < X$

Remark2: Chemical Test limits

Test Item(s)	Test Method	Analysis Equipment(s)	MDL	Limit
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000mg/kg
Hexavalent Chromium Cr(VI)	IEC 62321-7-1:2015	UV-VIS	--	1000mg/kg
	IEC 62321-7-2:2017		2 mg/kg	1000mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	2 mg/kg	1000mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	2 mg/kg	1000mg/kg

(To be continued)

TEST REPORT

2. Phthalates and PBBs&PBDEs Contents

Refer to IEC 62321-6:2015&IEC 62321-8:2017, determine the Phthalates and PBBs&PBDEs content by GC-MS.

Test item	CAS No.	Test Result (mg/kg)						RL (mg/kg)	Requirement (mg/kg)
		N1	N2	N3	N4	N5	N6		
DIBP	84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
DBP	84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
BBP	85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
DEHP	117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000

Test item	CAS No.	Test Result (mg/kg)						RL (mg/kg)	Requirement (mg/kg)
		N7	N8	N9	N10	N11	N12		
DIBP	84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
DBP	84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
BBP	85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
DEHP	117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000

Test item	CAS No.	Test Result (mg/kg)						RL (mg/kg)	Requirement (mg/kg)
		N13	N14	N15	N16	N17	N18		
DIBP	84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
DBP	84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
BBP	85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
DEHP	117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000

Remark:

(1)mg/kg= ppm =0.0001%;

(2)RL=Report Limit.

(3)N.D.= Not Detected

(To be continued)

TEST REPORT

Test item	CAS No.	Test Result (mg/kg)						RL (mg/kg)	Requirement (mg/kg)
		N19	N20	N21	N22	N23	N24		
DIBP	84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
DBP	84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
BBP	85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
DEHP	117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000

Test item	CAS No.	Test Result (mg/kg)						RL (mg/kg)	Requirement (mg/kg)
		N25	N26	N27	N28	N29	N30		
DIBP	84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
DBP	84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
BBP	85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
DEHP	117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000

Test item	CAS No.	Test Result (mg/kg)						RL (mg/kg)	Requirement (mg/kg)
		N31	N32	N33	N34	N35	N/A		
DIBP	84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	30	1000
DBP	84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	30	1000
BBP	85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	30	1000
DEHP	117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	30	1000

Remark:

(1) mg/kg = ppm = 0.0001%;

(2) RL = Report Limit.

(3) N.D. = Not Detected

(To be continued)

TEST REPORT

Test product photos :



(To be continued)

TEST REPORT

Test product photos :



(End of report)

All test reports issued by this laboratory are electronically signed using UKEY digital signatures. Reports with missing or damaged e-signatures shall be deemed invalid..

NOTE: IAS is International Accreditation Service. www.iasonline.org

IAS is ILAC/IAF Mutual Recognition Arrangement (MRA) Signatory.

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TEST REPORT

ANNEX EXEMPTION LIST

1	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
1(a)	For general lighting purposes < 30 W: 5 mg (Expires on 31 December 2011; 3, 5 mg may be used per burner after 31 December 2012; 2, 5 mg shall be used per burner after 31 December 2012)
1(b)	For general lighting purposes ≥ 30 W and < 50 W: 5 mg (Expires on 31 December 2011; 3, 5 mg may be used per burner after 31 December 2011)
1(c)	For general lighting purposes ≥ 50 W and ≤ 150 W: 5 mg
1(d)	For general lighting purposes ≥ 150 W: 15 mg
1(e)	For general lighting purposes with circular or square structural shape and tube diameter < 17 mm (No limitation of use until 31 December 2011; 7 mg may be used per burner after 31 December 2011)
1(f)	For special purposes: 5 mg
1(g)	For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3, 5 mg (Expires on 31 December 2017)
2(a)	Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):
2(a)(1)	Tri-band phosphor with normal lifetime and a tube diameter > 9 mm (e.g. T2): 5 mg (Expires on 31 December 2011; 4 mg may be used per lamp after 31 December 2011)
2(a)(2)	Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≤ 17 mm (e.g. T5): 5 mg (Expires on 31 December 2011; 3 mg may be used per lamp after 31 December 2011)
2(a)(3)	Tri-band phosphor with normal lifetime and a tube diameter ≥ 17 mm and ≤ 28 mm (e.g. T8): 5 mg (Expires on 31 December 2011; 3, 5 mg may be used per lamp after 31 December 2011)
2(a)(4)	Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 5 mg (Expires on 31 December 2012; 3, 5 mg may be used per lamp after 31 December 2012)
2(a)(5)	Tri-band phosphor with long lifetime (≥ 25 000 h): 8 mg (Expires on 31 December 2011; 5 mg may be used per lamp after 31 December 2011)
2(b)	Mercury in other fluorescent lamps not exceeding (per lamp):
2(b)(1)	Linear halophosphate lamps with tube > 28 mm (e.g. T10 and T12): 10 mg (Expires on 13 April 2012)
2(b)(2)	Non-linear halophosphate lamps (all diameters): 15 mg (Expires on 13 April 2016)
2(b)(3)	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9) (No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011)
2(b)(4)	Lamps for other general lighting and special purposes (e.g. induction lamps) (No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011)
3	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
3(a)	Short length (≥ 50.0 mm) (No limitation of use until 31 December 2011; 3, 5 mg may be used per lamp after 31 December 2011)
3(b)	Medium length (> 50.0 mm and < 150.0 mm) (No limitation of use until 31 December 2011; 5 mg may be used per lamp after 31 December 2011)
3(c)	Long length (> 150.0 mm) (No limitation of use until 31 December 2011; 13 mg may be used per lamp after 31 December 2011)
4(a)	Mercury in other low pressure discharge lamps (per lamp) (No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011)
4(b)	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60:
4(b)-I	P < 155 W (No limitation of use until 31 December 2011; 30 mg may be used per burner after 31 December 2011)
4(b)-II	155 W < P < 405 W (No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011)
4(b)-III	P > 405 W (No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011)
4(c)	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):
4(c)-I	P < 155 W (No limitation of use until 31 December 2011; 25 mg may be used per burner after 31 December 2011)
4(c)-II	155 W < P < 405 W (No limitation of use until 31 December 2011; 30 mg may be used per burner after 31 December 2011)
4(c)-III	P > 405 W (No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011)
4(d)	Mercury in High Pressure Mercury (vapour) lamps (HPMV) (Expires on 13 April 2015)
4(e)	Mercury in metal halide lamps (MH)
4(f)	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex
4(g)	Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair + 0.3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0.24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications.
5(a)	Lead in glass of cathode ray tubes
5(b)	Lead in glass of fluorescent tubes not exceeding 0.2 % by weight
6(a)	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35 % lead by weight
6(b)	Lead as an alloying element in aluminium containing up to 0.4 % lead by weight
6(c)	Copper alloy containing up to 4 % lead by weight
7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)
7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications
7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound

All test reports issued by this laboratory are electronically signed using UKEY digital signatures. Reports with missing or damaged e-signatures shall be deemed invalid..

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7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 VAC or 250 V DC or higher
7(c)-III	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 VAC or 250 V DC, (Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013)
7(c)-IV	Lead in PZT based dielectric ceramic materials for capacitors which are part of integrated circuits or discrete semiconductors (Expires on 21 July 2016)
8(a)	Cadmium and its compounds in one shot pellet type thermal cut-offs (Expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012)
8(b)	Cadmium and its compounds in electrical contacts
9	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution
9(b)	Lead in
11(a)	Lead used in C-press compliant pin connector systems (May be used in spare parts for EEE placed on the market before 24 September 2010)
11(b)	Lead used in other than C-press compliant pin connector systems (Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013)
12	Lead as a coating material for the thermal conduction module C-ring (May be used in spare parts for EEE placed on the market before 24 September 2010)
13(a)	Lead in white glasses used for optical applications
13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards
14	Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight, (Expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011)
15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages
16	Lead in linear incandescent lamps with silicate coated tubes (Expires on 1 September 2013)
17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications
18(a)	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as speciality lamps for diazoprinting reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ((Sr,Ba): MgSi ₂ O ₇ : Pb)
18(b)	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps, when used as sun tanning lamps containing phosphors such as BSP (BaSi ₂ O ₇ : Pb)
19	Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact energy saving lamps (ESL) (Expires on 1 June 2011)
20	Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCDs) (Expires on 1 June 2011)
21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses
23	Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less, (May be used in spare parts for EEE placed on the market before 24 September 2010)
24	Lead in solders for the soldering to machined through hole discoidal and planar, array ceramic multilayer capacitors
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring
26	Lead oxide in the glass envelope of black light blue lamps (Expires on 1 June 2011)
27	Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers (Expired on 24 September 2010)
29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC (1)
30	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more
31	Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)
32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes
33	Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers
34	Lead in cermet-based trimmer potentiometer elements
36	Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display (Expired on 1 July 2010)
37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body
38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide
39	Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm ² of light-emitting area), for use in solid state illumination or display systems (Expires on 1 July 2014)
40	Cadmium in photoresistors for analogue opto-couplers applied in professional audio equipment, (Expires on 31 December 2013)
41	Lead in solders and termination finishes of electrical and electronic components and finishes of, printed circuit boards used in ignition modules and other electrical and electronic engine control, systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of, hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council (2)) (Expires on 31 December 2018)

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