



TEST REPORT

LAB NO. : (9320)204-0888
DATE : Jul 29, 2020
PAGE : 1 OF 8

APPLICANT : FOSHAN NANHAI YONGGU HARDWARE PRODUCTS CO., LTD
ROOM 2501-2504, JIANMEI EXHIBITION AND TRADE BUILDING, NO.1 YIXIAN ROAD, DALI TOWN, NANHAI DISTRICT, FOSHAN CITY, GUANGDONG PROVINCE, CHINA.

CONTACT PERSON : /

DATE OF SUBMISSION : Jul 22, 2020

TEST PERIOD : Jul 22, 2020 to Jul 29, 2020

SAMPLE DESCRIPTION : Aluminum enclosure

Color: /

Style no. / Model no.: See the list

P.O. No.: /

Country of Origin: /

Country of Destination: /

MANUFACTURER : /

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments (EU) 2015/863	PASS	

LA

Bureau Veritas Consumer Products Services (Guangzhou) Co., Ltd
No. 183, Shinan Road, Meilin Plaza, Dongchong, Nansha, Guangzhou, Guangdong Province, China 511453
Tel: (86) 20 2290 2088 Fax: (86) 20 3490 9303
Email: BVCPs_pyinfo@bureauveritas.com
Website: cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

The content of this PDF file is in accordance with the original issued reports for reference only.
This Test Report cannot be reproduced, except in full, without prior written permission of the company.



**BUREAU
VERITAS**

LAB NO. : (9320)204-0888
DATE : Jul 29, 2020
PAGE : 2 OF 8

YG-J01-42.3W35H	YG-H01-25W25H	YG-H46-65W25H	YG-W04-80W1U	YG-D02-269W3U	YG-A06-370W115H
YG-J02-46.2W29.6H	YG-H02-50W21H	YG-H47-69.1W30.4H	YG-W05-106W55HQ8	YG-D03-269W4U	YG-A07-370W3U
YG-J03-55W19H	YG-H03-52W34H	YG-H48-76W32H	YG-W06-108W26HF6	YG-D04-375W2U	YG-A08-370W4U
YG-J04-57W28H	YG-H04-52W38H	YG-H49-105W43.5	YG-W07-108W26HY6	YG-D05-375W3U	YG-A09-450W2U
YG-J05-57.5W13H	YG-H05-56W30H	YG-H50-133.5W49H	YG-W08-114W33HQ6	YG-D06-375W4U	YG-A10-450W115H
YG-J06-58W24H	YG-H06-63W25H	YG-H51-134.5W25.7H	YG-W09-125W51HQ8	YG-D07-482W2U	YG-A11-450W3U
YG-J07-61W22.4H	YG-H07-71W25.5H	YG-H52-136W30H	YG-W10-145W54HQ8	YG-D08-482W3U	YG-A12-450W4U
YG-J08-63W37H	YG-H08-76W35H	YG-H53-139W36H	YG-W11-145W68HQ8	YG-D09-482W4U	YG-B01-248W2U
YG-J09-64W23.5H	YG-H09-76W46H	YG-H54-140W45H	YG-W12-145W82HQ8	YG-K01-70W35H	YG-B02-248W115H
YG-J10-64W25.5H	YG-H10-88W38H	YG-H55-142W33.8H	YG-W13A-150W1U	YG-K01-70W35H	YG-B03-248W3U
YG-J11-66W27H	YG-H11-90W36H	YG-H56-150W45H	YG-W14-152W44H	YG-K02-82W24H	YG-B04-248W4U
YG-J12-66.2W27.5H	YG-H12-95W55H	YG-H57-160W,53H	YG-W15-155W32HQ5	YG-K02-82W24H	YG-B05-358W2U
YG-J13-67W30H	YG-H13-96W45.5H	YG-H58-250W54H	YG-W16-168W54HQ8	YG-K03-100W26H	YG-B06-358W115H
YG-J14-69.8W23.6H	YG-H14-97W40H	YG-H59-88W30H	YG-W17A-180W1U	YG-K03-100W26H	YG-B07-358W3U
YG-J15-70W21H	YG-H15-100W25.5H	YG-H60-240W85H	YG-W17B-180W1U	YG-K04-110W30H	YG-B08-358W4U
YG-J16-74W29H	YG-H16-104.5W40H	YG-H61-202W32H	YG-W18A-180W60HQ8	YG-K04-110W30H	YG-B09-438W2U
YG-J17-75.8W24H	YG-H17-106W40H	YG-C01A-1UQ3H3	YG-W19A-180W1.5U	YG-K05-130W35	YG-B10-438W115H
YG-J18-76W36H	YG-H18-106W54H	YG-C02A-1UQ5H3	YG-W19B-180W1.5U	YG-K05-130W35	YG-B11-438W3U
YG-J19-80W23.8H	YG-H19-106W55H	YG-C03A-1.5UQ3H3	YG-W20A-180W2U	YG-K06-88W38	YG-B12-438W4U
YG-J20-80W35H	YG-H20-107W47H	YG-C04A-2UQ5H3	YG-W20B-180W2U	YG-K07-106W40	YG-E01-4823W132H450
YG-J21-80W45H	YG-H21-114W33H	YG-C04A-2UQ5H3	YG-W21A-190W60H	YG-K18-125W51	P01-133.4W55H109
YG-J22-82.8W28.8H	YG-H22-122W45H	YG-C06B-1UQ3H3	YG-W22A-190W1.5U	YG-K09-152W44	P01-208.4W71.5H189
YG-J23-82.9W23.4H	YG-H23-125W51H	YG-C07B-1.5UQ3H3	YG-W23B-226W1.5U	YG-K10-168W54	P01-248.4W81.5H209
YG-J24-84W28H	YG-H24-127W75H	YG-C08B-2UQ5H3	YG-W24-230W75H	YG-G01-235W35H155	-
YG-J25-90W35H	YG-H25-138W45H	YG-C09B-2UQ3H3	YG-W25A-250W1U	YG-G02-292W45H205	-
YG-J26-97W40.5H	YG-H26-142W53.5H	YG-C10B-3UQ3H3	YG-W25B-250W1U	YG-G03-246W55H215	-
YG-J27-104W28H	YG-H27-145W54H	YG-C11C-1UQ3H3	YG-W26A-438W1U	YG-G04-266W65H235	-
YG-J28-108W26H	YG-H28-145W68H	YG-C12C-1.5UQ3H3	YG-W26B-438W1U	YG-G05-256W75H255	-
YG-J29-116W53H	YG-H29-145W82H	YG-C13C-2UQ5H3	YG-W27A-438W2U	YG-G06-228.2W35H	-



**BUREAU
VERITAS**

LAB NO. : (9320)204-0888
DATE : Jul 29, 2020
PAGE : 3 OF 8

YG-J30-129W29H	YG-H30-147W41H	YG-C14C-2UQ3H3	YG-W27B-438W2U	YG-G07-215W52HF	-
YG-J31-143W31H	YG-H31-147W55H	YG-C15C-3UQ3H3	YG-W28-120W40H	YG-G08-215W52HY	-
YG-J32-155W32H	YG-H32-152W44H	YG-C16C-4UQ3.5H3.5	YG-W29-143W40.4H	YG-G09-269.3W56H	-
YG-J33-196W91H	YG-H33-160W94H	YG-C17A-1UQ3H3	YG-W30-185W55H	YG-G10-437W44H	-
YG-J34-240W45H	YG-H34-168W54H	YG-C18A-2UQ5H5	YG-M01-60W60H	YG-G11-437W2U	-
YG-J35-252W38H	YG-H35-194W61.5H	YG-C19A-3UQ5H5	YG-M02-80W80H	YG-G12-229W2U	-
YG-J36-120W46H	YG-H36-202W52H	YG-C20A-4UQ5H5	YG-M03-100W50H	YG-G13-337W2U	-
YG-J37-44W38H	YG-H37-204W48H	YG-C21B-1UQ3H3	YG-M04-150W75H	YG-G14-445W2U	-
YG-J38-63W17.5H	YG-H38-234W80.6H	YG-C22B-2UQ5H5	YG-M05-200W75H	YG-G15-229W3U	-
YG-J39-68W16H	YG-H39-246W64H	YG-C23B-3UQ5H5	YG-M06-75W40H	YG-G16-337W3U	-
YG-J40-130W58H	YG-H40-250W73.5H	YG-C24B-4UQ5H5	YG-M07-90W45H	YG-G17-445W3U	-
YG-J41-136W68H	YG-H41-256W70.2H	YG-C25-1U	YG-M08-110W55H	YG-A01-260W2U	-
YG-J42-161W49.5H	YG-H42-19W33.5H	YG-C26-2U	YG-M09-125W60H	YG-A02-260W115H	-
YG-J43-187W48H	YG-H43-38.1W15H	YG-W01-64W23.5H	YG-M10-130W65H	YG-A03-260W3U	-
YG-J44-99W20H	YG-H44-48W30H	YG-W02-64W25.5H	YG-M11-180W70H	YG-A04-260W4U	-
YG-J45-116W53H	YG-H45-55W24H	YG-W03-66.2W27.5H	YG-D01-269W2U	YG-A05-370W2U	-



LAB NO. : (9320)204-0888
DATE : Jul 29, 2020
PAGE : 4 OF 8

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (GUANGZHOU) CO., LTD

NINA REN
SENIOR MANAGER



REMARK

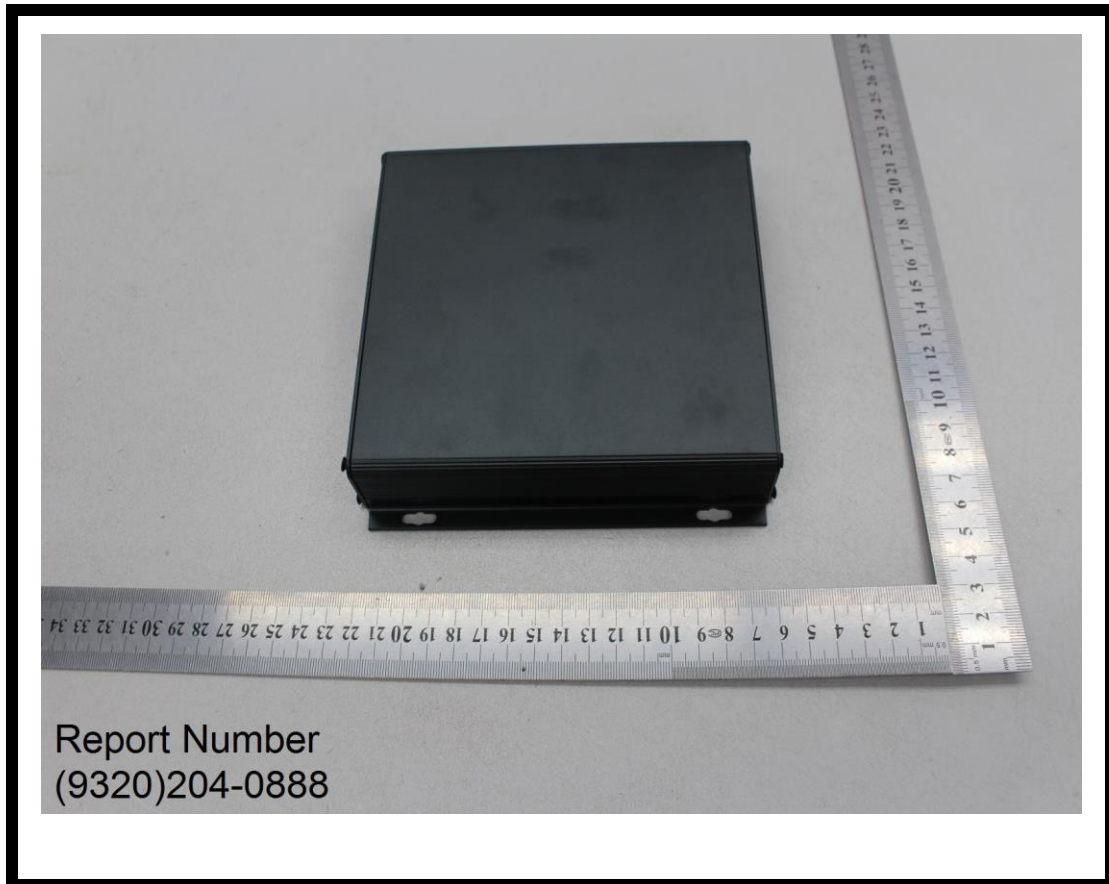
If there are questions or concerns on this report, please contact the following persons:

- a) GENERAL TEL: (86)755 83437287
FAX: (86)755 83439100
b) BUSINESS SZ TEL: (86)755 21534695
FAX: (86)755 83439100
BUSINESS GZ TEL: (86) 20 87148525
FAX: (86) 20 87148528
- EMAIL: eechemical.sc@bureauveritas.com
WEBSITE: cps.bureauveritas.cn



LAB NO. : (9320)204-0888
DATE : Jul 29, 2020
PAGE : 5 OF 8

Photo of the Submitted Sample



Photograph of test item(s)





LAB NO. : (9320)204-0888
 DATE : Jul 29, 2020
 PAGE : 7 OF 8

TEST RESULT

Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments (EU) 2015/863

Test Method : See Appendix.

Test Item(s)	Item / Component Description(s) + Location(s)	Style(s)
1	Black coating (case)	-
2	Silvery metal with black coating (case)	-
3	Black printed silvery metal (screw)	-

See Analytes and their corresponding Maximum Allowable Limit in Appendix

Parameter	Result									Conclusion
	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	DBP	BBP	DEHP	DIBP	
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	-	-	-	-	-	-	-	-	-	-
1	BL	BL	BL	BL	BL	ND*	ND*	ND*	ND*	PASS
2	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
3	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS

Note / Key :

ND = Not detected
 BL = Below Limit
 NR = Not requested
 Detection Limit: See Appendix.
 ">" = Greater than
 NA = Not applicable
 mg/kg = milligram(s) per kilogram = ppm = part(s) per million
 "<" = Less than
 EX = Exempted

Remark :

- The testing approach is listed in table of Appendix.
- * denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.
- According to European Parliament and Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.



LAB NO. : (9320)204-0888
 DATE : Jul 29, 2020
 PAGE : 8 OF 8

APPENDIX

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [Compliance Test for European Parliament and Council Directive 2011/65/EU with its Amendments (EU) 2015/863] :

No.	Name of Analyte(s)	Detection Limit (mg/kg)				Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF) ^[a]			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10 ^[b]	1000
2	Cadmium (Cd)	50	50	50	10 ^[b]	100
3	Mercury (Hg)	100	200	200	10 ^[c]	1000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	3 ^[g, h] / 10 ^[d] / See ^[e, i]	1000 / Negative ^[j]
6	Bromine (Br)	200	NA	200	NA	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Each 50 ^[f]	Sum 1000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Each 50 ^[f]	Sum 1000
9	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Diisobutyl phthalate (DIBP)	NA	NA	NA	Each 500 ^[i]	Each 1000

NA = Not applicable IEC = International Electrotechnical Commission
^[a] Test method with reference to International Standard IEC 62321-3-1: 2013.
^[b] Test method with reference to International Standard IEC 62321-5: 2013.
^[c] Test method with reference to International Standard IEC 62321-4: 2013+AMD1: 2017 CSV.
^[d] Polymers and Electronics - Test method with reference to International Standard IEC 62321-7-2: 2017.
^[e] Metal - Test method with reference to International Standard IEC 62321-7-1: 2015.
^[f] Test method with reference to International Standard IEC 62321-6: 2015.
^[g] Leather - Test method International Standard ISO 17075: 2017.
^[h] Other Than Metal, Leather, Polymers and Electronics - Test method with reference to International Standard ISO 17075: 2007.
^[i] Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).
^[j] Test method with reference International Standard IEC 62321-8: 2017.

Testing Approach [Compliance Test for European Parliament and Council Directive 2011/65/EU] :

The testing approach was with reference to the following document(s).

1	International Standards IEC 62321-1: 2013 and IEC 62321-2: 2013
2	"RoHS Enforcement Guidance Document Version 1" by EU RoHS Enforcement Authorities Informal Network. (May 2006)
3	"RoHS Regulations - Government Guidance Notes" by United Kingdom Department for Business Innovation & Skills. (February 2011)
4	"Final Report to RoHS substances (Hg, Pb, Cr(VI), Cd, PBB and PBDE) in electrical and electronic equipment in Belgium" by Belgium Federal Public Service Health, Food Chain Safety and Environment. (November 2005)

END