

倍测检测 BCTC TEST

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	lest Report	BCTC
Report No. BCTC19120	01409R Date: Dec	c. 18, 2019
Applicant	: Huizhou Wisva Optoelectronics CO., Ltd	BI
C Address	: Building 6, Zhonghai Science Park(Huizhou), Daya Huizhou City, Guangdong Provice, China	
The submitted sample and of the client	sample information was/were submitted and identifi	ed by/on the behalf
Sample name	: LED strip light	
Testing type /model	: HH-SW528F010W24-COB	BCTC
Additional type /model	: HH-SW320F008W24-COB	PCTC
Manufacturer	: Huizhou Wisva Optoelectronics CO., Ltd	BCI
Address	: Building 6, Zhonghai Science Park(Huizhou), Daya Huizhou City, Guangdong Provice, China	awan West District,
Sample received date	: Sep. 07, 2018	-75
Testing period	: Sep. 07, 2018 - Sep. 13, 2018	BCTC
Test requested	 1. As specified by client, to screen Lead(Pb), Cadr Mercury(Hg), Chromium(Cr) and Bromine(Br) in th sample(s) by XRF. 2. As specified by client, when screening results ex screening limit in IEC 62321-3-1:2013, further use methods are required to test the Lead(Pb), Cadmin 	e submitted xceed the XRF of chemical
BCTC BCTC	 Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polyte Biphenyls(PBBs), Polybrominated Diphenyl Ethers submitted samples. 3. As specified by client, to test the Di-isobutyl phth Dibutyl phthalate(DBP), Benzyl butyl phthalate(BB 	orominated s(PBDEs) in the halate(DIBP), P),
BCTC	Bis(2-ethyl(hexyl) phthalate)(DEHP) in the submitt	ed sample(s).
	ective 2011/65/EU and amendment Commission Dele	gated
*****For m	ore detailed information, please refer to the next page***	** BCTC
Tested by	BCTC APPROVED Approved by a	her Chen
Weicheng Zhar	DUIC TESTING	Hanyao Chen
Test Report Tel: 400-788-9	558 Web: https://www.bctc-lab.com BCTC/RF-CH-007 Ver	• A 0 Page 1 of 11
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Report No. BCTC1912001409R

Date: Dec. 18, 2019

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Test Method:

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A. Screening test by XRF spectroscopy

检测 TEST

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1:2013.

DID	Screening limits of IEC 62	MDL		
Element	Polymers and metals	Composite material	Polymers	Other material
Pb	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
Cd	BL≤(70-3σ) <x <(130+3σ)<br="">≤OL</x>	LOD≤(50-3σ) <x <(150+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
Hg	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
Cr	BL≤(700-3σ)< X	BL≤(500-3σ)< X	10 mg/kg	50 mg/kg
Br	BL≤(300-3σ)< X	BL≤(250-3σ)< X	10 mg/kg	50 mg/kg

Note:

-BL = Under the XRF screening limit

-OL = Further chemical test will be conducted while result is above the screening limit

-X= The symbol "X" marks the region where further investigation is necessary

 -3σ = The reproducibility of analytical instruments

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-LOD= Detection limit

-"--" = Not regulated.

B. Chemical Test

1C	Test Item(s)	Test Method	Measured Equipment(s)	MDL	Limit	
	Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg	10
	Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg	
	Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg	
	Lleverelent Chromium Cr()()	IEC 62321-7-1:2015 Ed.1.0		18	1000 mg/kg	
BCI	Hexavalent Chromium Cr(VI)	IEC 62321-7-2:2017 Ed.1.0	UV-VIS	8 mg/kg	1000 mg/kg	-
	Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg	BCI
	Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg	
	Phthalates	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg	1000 mg/kg	
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Test Report Tel: 400-788-9558 Web: https://www.bctc-lab.com BCTC/RF-CH-007 Ver.: A.0 Page 2 of 11

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BCTC Report No. BCTC1912001409R

Date: Dec. 18, 2019

Chemical Test

Unit (mg/kg)

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PBBs:N.D.

PBDEs:114

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Conclusion

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Test Result(s): Sample **XRF Screening Test** Sample **Tested Items** No. Description Unit (mg/kg) Pb Cd Hg 1 Black plastic Cr(Cr(VI)) BCTC Br(PBBs&PBDEs) Pb BCTC Cd 2 Red wire jacket Hg

Cr(Cr(VI)) Br(PBBs&PBDEs)

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R	dic		Pb
~			Cd
	3	Black wire jacket	Hg
			Cr(Cr(VI))
Ċ.			Br(PBBs&PBDEs)
			Pb

White heat

shrink tube

BCI 4

Copper wire 5 80 core Cr(Cr(VI)) Br(PBBs&PBDEs) BCTC White FPC Cr(Cr(VI))

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Cd

Hg

Cr(Cr(VI))

Br(PBBs&PBDEs)

Pb Cd

Hg

Pb

Cd

Hg

Br(PBBs&PBDEs)

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Test Report Tel: 400-788-9558 Web: https://www.bctc-lab.com BCTC/RF-CH-007 Ver.: A.0 Page 3 of 11 BCTC

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	BCTC		Test I	Report		BCTC	
	Report	No. BCTC1912	001409R	BCTE	0ate: Dec. 18, 20)19	В
		DO.	Pb	BL	1		
D7			Cd	BL	BCIC	1	
-	7	SMD LED	Hg	BL	1	PASS	C.
	201	C	Cr(Cr(VI))	BCTC BL	/	BL	
	BL		Br(PBBs&PBDEs)	BL	1		
		-536	Pb	BL B			
		BCIT	Cd	BL	1		
20	8	SMD resistor	HggCTC	BL	/ BC	PASS	
BCTC			Cr(Cr(VI))	BL	/]	- il
		155	Br(PBBs&PBDEs)	BCBLC	/		BCIC
		BCIS	Pb	BL	1		
			Cd	BL	BCIL		
	9	Tin solder 🛛 🐻	Hg	BL	1	PASS	
			Cr(Cr(VI))	BL	/	BCTC	
BC	TC		Br(PBBs&PBDEs)	1	1		

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	Tested Item(s)	BCTC	ι	Result Jnit (mg/kg		BCTC	
		1	2	3	4	5	Unit (mg/kg)
	Di-isobutyl phthalate(DIBP) CAS #:84-69-5	N.D.	N.D.	N.D.	N.D.		1000
	Dibutyl phthalate(DBP) CAS #:84-74-2	N.D.	N.D.	N.D.	N.D.	1	1000
CTC	Benzylbutyl phthalate(BBP) CAS #:85-68-7	N.D.	N.D.	N.D.	N.D.	1	1000
	Di-2-ethylhexyl phthalate(DEHP) CAS #:117-81-7	N.D.	N.D.	N.D.	102	1	1000

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Test Report Tel: 400-788-9558 Web: https://www.bctc-lab.com BCTC/RF-CH-007 Ver.: A.0 Page 4 of 11 BCTC

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Test Report

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Report No. BCTC1912001409R

Date: Dec. 18, 2019

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Tested Item(s)	BCTC	Re Unit (i	BCTCLimit		
	6	7	8	9	Unit (mg/kg)
Di-isobutyl phthalate(DIBP) CAS #:84-69-5	N.D.	N.D.	N.D.	1	1000
Dibutyl phthalate(DBP) CAS #:84-74-2	N.D.	N.D.	N.D.	1	1000
Benzylbutyl phthalate(BBP) CAS #:85-68-7	N.D.	N.D.	N.D.	1	1000
Di-2-ethylhexyl phthalate(DEHP) CAS #:117-81-7	N.D.	N.D.	N.D.	1	1000
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Note:

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-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-" / "= Not conducted.

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than $0.1\mu g/cm^2$ with $50cm^2$ sample surface area used.

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-Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than $0.13\mu g/cm^2$ with $50cm^2$ sample surface area used.

-The data in this report are the copy of this report: BCTC-FYC180094025R.

Remark:

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- The screening results are only used for reference.

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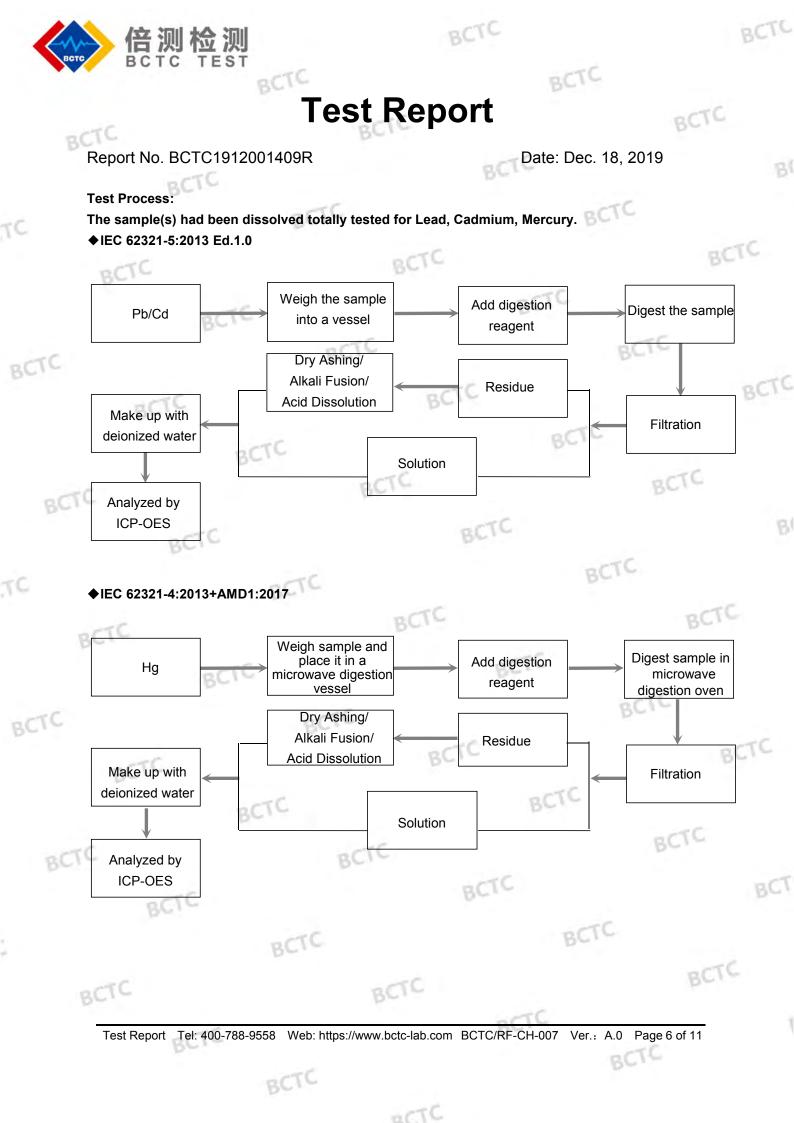
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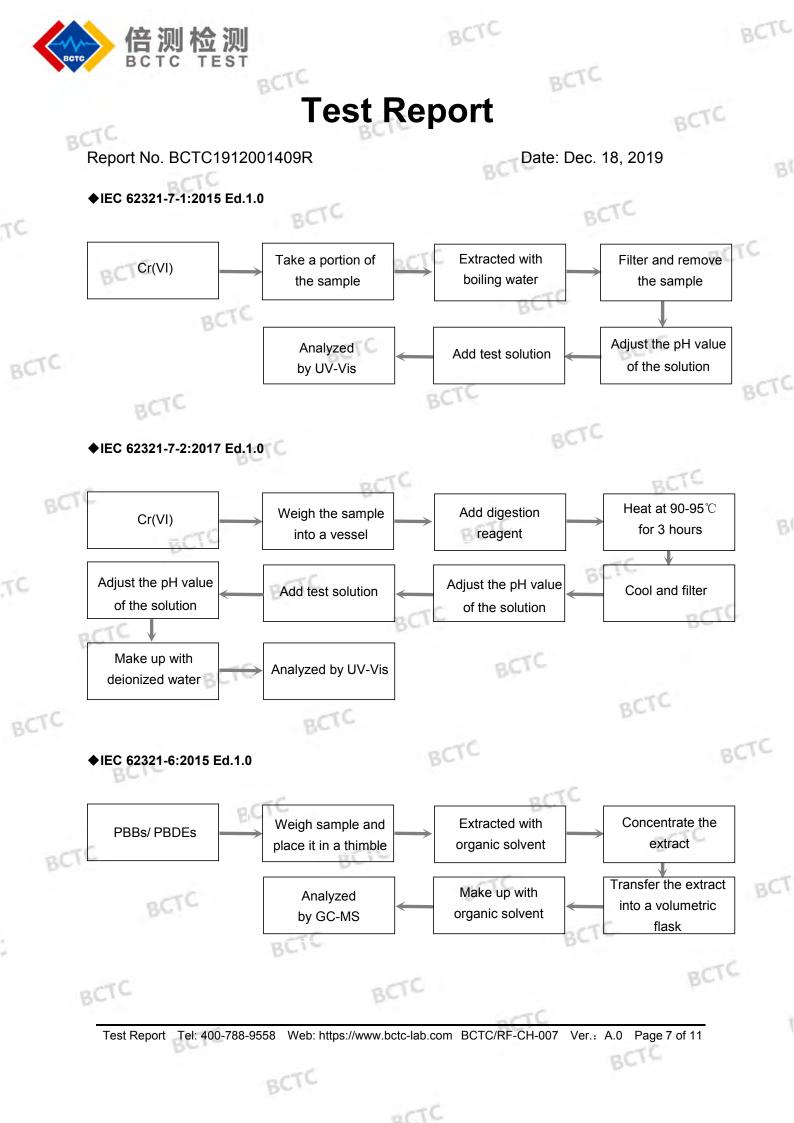
- When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.

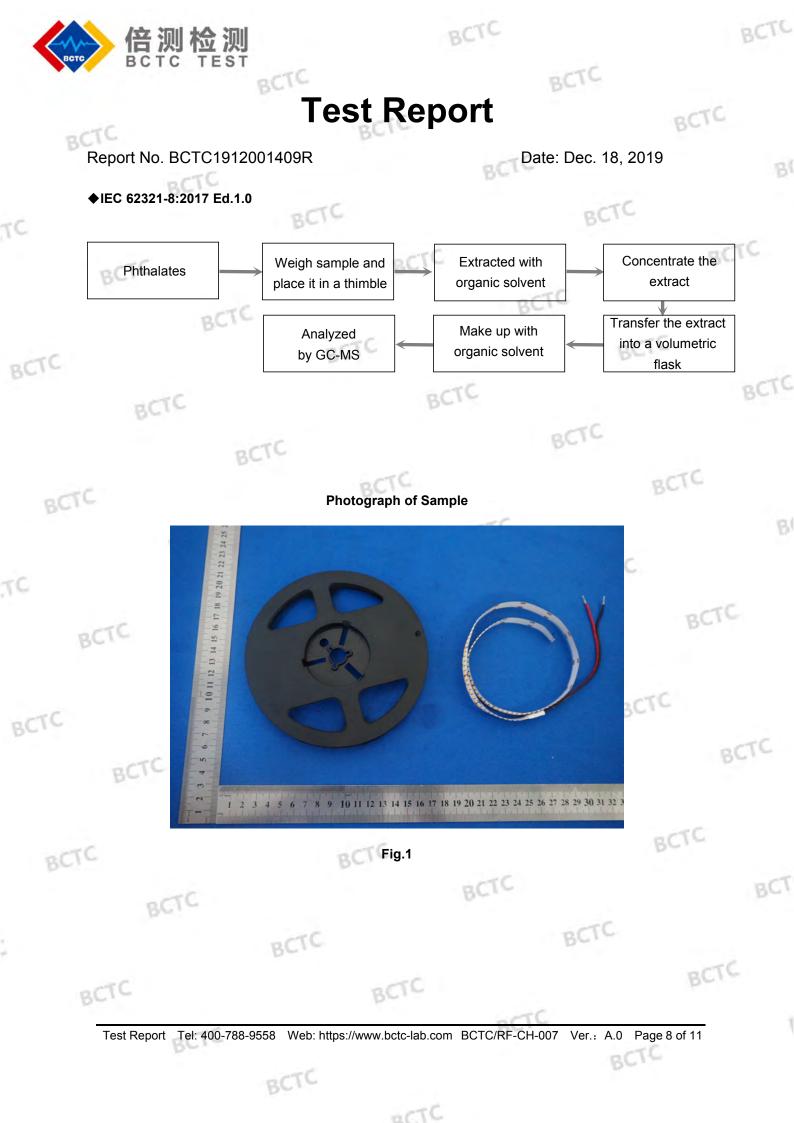
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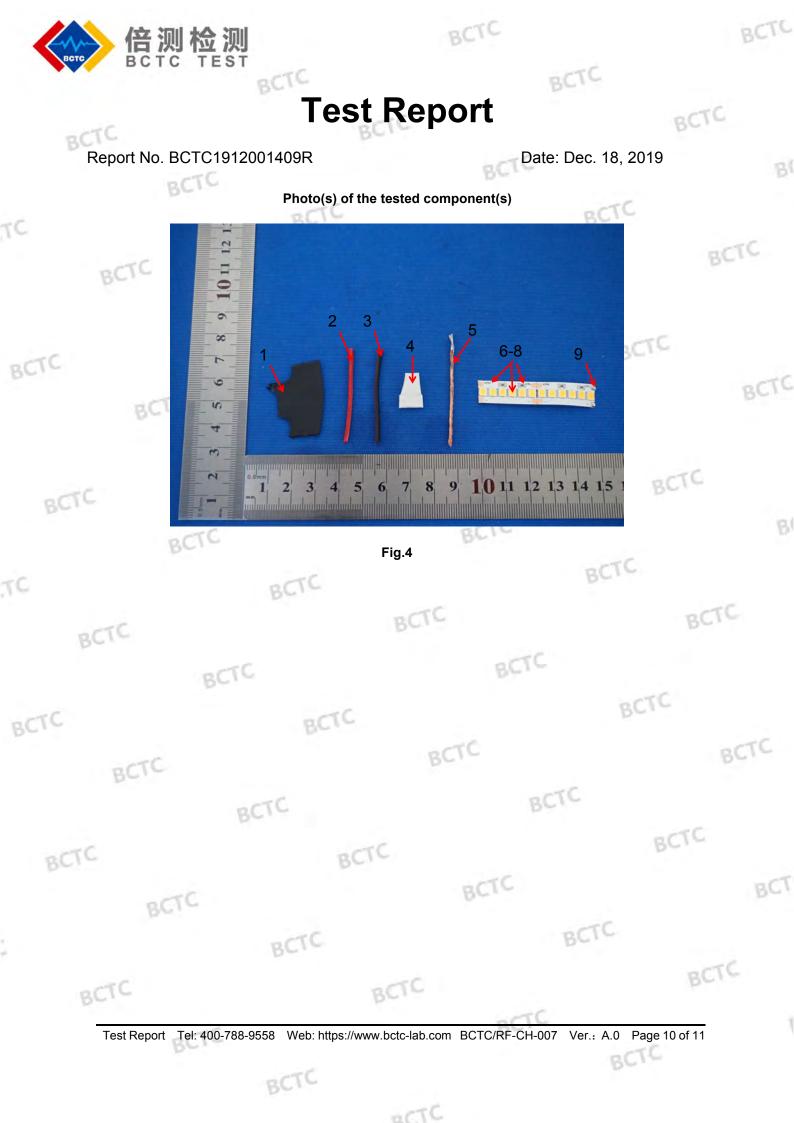
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BCTC **Test Report**

Report No. BCTC1912001409R

BCTC

Date: Dec. 18, 2019

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STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is

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issued from our lab.

3. The test report is invalid without stamp of laboratory.

4. The test report is invalid without signature of person(s) testing and

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authorizing.

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BCTC 5. The test process and test result is only related to the Unit Under Test. BCTC

6. The quality system of our laboratory is in accordance with ISO/IEC17025.

7. If there is any objection to report, the client should inform issuing laboratory

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within 15 days from the date of receiving test report.

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******** END OF REPORT *******

Test Report Tel: 400-788-9558 Web: https://www.bctc-lab.com BCTC/RF-CH-007 Ver.: A.0 Page 11 of 11

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