

Applicant name:	Shenzhen TwoTrees Technology Co., Ltd.
Applicant address	Room 402, Building 11, No.9 Qilin Road, Nankeng Community Bantian Street,
Applicant address:	Longgang District, Shenzhen, Guangdong, China, 518000

#### Sample information:

Sample Name:	LASER ENGRAVER
Sample Model:	TTS, TT, TTS-25, TTS-35, TTS-50, TTS-55
Trade mark:	N/A
Manufacturer:	Shenzhen TwoTrees Technology Co., Ltd. Room 402, Building 11, No.9 Qilin Road, Nankeng Community Bantian Street, Longgang District, Shenzhen, Guangdong, China, 518000
Sample Received Date:	Oct.27,2021
<b>Testing Period:</b>	Oct.27,2021~Nov.02,2021

**Test Requested** As specified by client, to determine the Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DEHP, BBP, DBP & DIBP content in the submitted sample compliance with RoHS directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102.

#### **Test Method:**

Tested Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	IEC 62321-5:2013	ICP-OES	2mg/kg
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	2mg/kg
Mercury(Hg)	IEC 62321-4:2013+A1:2017	ICP-OES	2mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015 IEC 62321-7-2:2017	UV-VIS	2mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	5mg/kg
Polybrominated Dipheny1 Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	5mg/kg
Di-(2-ethylhexyl) phthalate(DEHP)	IEC 62321-8:2017	GC-MS	50mg/kg
Benzylbutyl phthalate(BBP)	IEC 62321-8:2017	GC-MS	50mg/kg
Dibutyl phthalate (DBP)	IEC 62321-8:2017	GC-MS	50mg/kg
Diisobutyl phthalate(DIBP)	IEC 62321-8:2017	GC-MS	50mg/kg

Please refer to the following page(s). Test Result(s)

Technical Manag

Test by: Heber He

Approved by: Kein Young Inspected by: Man

Date: Nov.02,2021

Report No. HTT202110369CH

Page 1 of 16



#### **Test Result:**

No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
	Engraving	Cr <sup>6+</sup>	1000	N.D.
01	machine laser	PBBs	1000	N.D.
01		PBDEs	1000	N.D.
	module	DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
02	42 stepper motor	PBBs	1000	N.D.
02	42 stepper motor	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
03	Main board	PBBs	1000	N.D.
03	Walli board	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
04	USB extension	PBBs	1000	N.D.
04		PBDEs	1000	N.D.
	cable	DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.

Report No. HTT202110369CH Hotline: 400-6655-351

Page 2 of 16 Tel: 0755-23595200 Fax: 0755-23595201 http://www.httprc.com



No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		$\mathrm{Cr}^{6+}$	1000	N.D.
05	TF Card 4GB	PBBs	1000	N.D.
03	17 Card 40b	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
06	TF card reader	PBBs	1000	N.D.
06	1F card reader	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
07	I assument actives	PBBs	1000	N.D.
07	Laser protective	PBDEs	1000	N.D.
	glasses	DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
00	Matau II	PBBs	1000	N.D.
08	Motor line	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.

Report No. HTT202110369CH Hotline: 400-6655-351



No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		$\mathrm{Cr}^{6+}$	1000	N.D.
09	Black cable	PBBs	1000	N.D.
09	Diack cable	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
10	Motherboard shell	PBBs	1000	N.D.
10	Motherboard shell	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
11	7 avia avida mil	PBBs	1000	N.D.
11	Z-axis guide rail	PBDEs	1000	N.D.
	seat	DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
12	Cliding granger	PBBs	1000	N.D.
12	Sliding support	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.

Report No. HTT202110369CH Hotline: 400-6655-351 Tel: 0755-2

Page 4 of 16
Tel: 0755-23595200 Fax: 0755-23595201 http://www.httprc.com



No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
			1000	N.D.
	-	Pb	1000	N.D.
	_	Cd	100	N.D.
	-	<u>Hg</u>	1000	N.D.
	_	Cr <sup>6+</sup>	1000	N.D.
13	Laser head support	PBBs	1000	N.D.
		PBDEs	1000	N.D.
	_	DEHP	1000	N.D.
	_	BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
	_	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
14	Bellows X-axis	PBBs	1000	N.D.
1		PBDEs	1000	N.D.
	fixing seat	DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
15	Bellows holder	PBBs	1000	N.D.
13	Dellows floider	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
16	Varia france	PBBs	1000	-
16	Y-axis frame	PBDEs	1000	-
	profile	DEHP	1000	-
		BBP	1000	-
		DBP	1000	-
		DIBP	1000	-

Report No. HTT202110369CH Hotline: 400-6655-351

Tel: 0755-23595200

Fax: 0755-23595201

Page 5 of 16



No.	Part Name	Restricted	Limit (mg/kg)	Test Results
		Substances		
		Pb	1000	N.D.
	_	Cd	100	N.D.
	_	Hg	1000	N.D.
	_	Cr <sup>6+</sup>	1000	N.D.
17	Y-axis frame	PBBs	1000	N.D.
		PBDEs	1000	N.D.
	profile side	DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
18	X-guide common	PBBs	1000	N.D.
10		PBDEs	1000	N.D.
	rail profile	DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
19	Front baffle	PBBs	1000	N.D.
19	Front barrie	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
20	D 1 00	PBBs	1000	N.D.
20	Rear baffle	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.

Report No. HTT202110369CH Hotline: 400-6655-351

Hotline: 400-6655-351 Tel: 0755-23595200

Fax: 0755-23595201

Page 6 of 16



No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
21	T.41	PBBs	1000	N.D.
21	Idler gear holder	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
22	DOM: 1 1	PBBs	1000	N.D.
22	POM wheel	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
	20 tooth	Cr <sup>6+</sup>	1000	N.D.
22		PBBs	1000	N.D.
23	synchronous wheel	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
24	20 tooth idler	PBBs	1000	N.D.
24	20 tooth idler	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
	<u> </u>	DIBP	1000	N.D.

Report No. HTT202110369CH Hotline: 400-6655-351

Tel: 0755-23595200

Fax: 0755-23595201 htt

Page 7 of 16



No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		$\mathrm{Cr}^{6+}$	1000	N.D.
25	Lincon avide mil	PBBs	1000	N.D.
23	Linear guide rail	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
26	Stainless steel	PBBs	1000	_
26		PBDEs	1000	_
	screw rod	DEHP	1000	-
		BBP	1000	-
		DBP	1000	_
		DIBP	1000	_
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
27	Hand tichton	PBBs	1000	N.D.
21	Hand tighten	PBDEs	1000	N.D.
	knurled nut	DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
20	Ontigal and the b	PBBs	1000	N.D.
28	Optical axis limit	PBDEs	1000	N.D.
	ring	DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.

Report No. HTT202110369CH Hotline: 400-6655-351

Tel: 0755-23595200 Fax: 0755-23595201 http://www.httprc.com

Page 8 of 16



No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
29	N-1 :1-4:	PBBs	1000	N.D.
29	Nylon isolation	PBDEs	1000	N.D.
	column	DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
30	DOM -411	PBBs	1000	N.D.
30	POM steel washer	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
31	Duaggad single hale	PBBs	1000	N.D.
31	Pressed single hole	PBDEs	1000	N.D.
	nut	DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		$\mathrm{Cr}^{6^+}$	1000	N.D.
32	Rubber head screw	PBBs	1000	N.D.
32	Rubbel Head Sciew	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.

Report No. HTT202110369CH Hotline: 400-6655-351 Tel: 0755-2



No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
33	Eccentric nut	PBBs	1000	-
33	Eccentric nut	PBDEs	1000	-
		DEHP	1000	-
		BBP	1000	-
		DBP	1000	-
		DIBP	1000	-
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
34	I - 1 - 4 : 1	PBBs	1000	N.D.
34	Isolation column	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
35	Dunga contrat	PBBs	1000	-
33	Brass gasket	PBDEs	1000	-
		DEHP	1000	-
		BBP	1000	-
		DBP	1000	-
		DIBP	1000	-
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
36	Salf looking mut	PBBs	1000	N.D.
30	Self locking nut	PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.

Report No. HTT202110369CH Hotline: 400-6655-351

Tel: 0755-23595200

Fax: 0755-23595201

Page 10 of 16 http://www.httprc.com



No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
37		Pb	1000	N.D.
		Cd	100	N.D.
	T-nut	Hg	1000	N.D.
		$\mathrm{Cr}^{6+}$	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
		Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
20		PBBs	1000	N.D.
38	Socket head cap	PBDEs	1000	N.D.
	screw	DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
39	Extension wrench	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
40	Nylon gasket	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.

Report No. HTT202110369CH Hotline: 400-6655-351

HTT202110369CH Page 11 of 16 Hotline: 400-6655-351 Tel: 0755-23595200 Fax: 0755-23595201 http://www.httprc.com



No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
41	Closed synchronous belt	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
42	Rubber timing belt	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
43	T- rubber foot pad	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr <sup>6+</sup>	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.

Note:

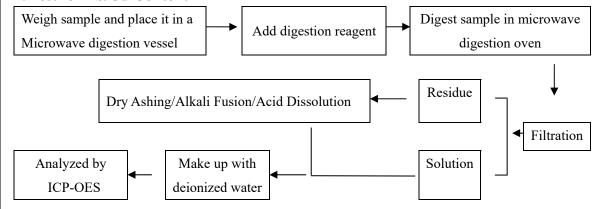
N.D. =Not Detected(<MDL)
mg/kg = ppm =parts per million
"- "=Not specified</pre>

Report No. HTT202110369CH
Hotline: 400-6655-351
Tel: 0755-23595200
Fax: 0755-23595201
http://www.httprc.com

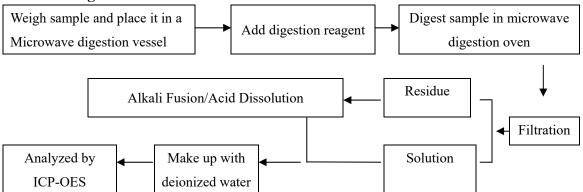


#### **Test process**

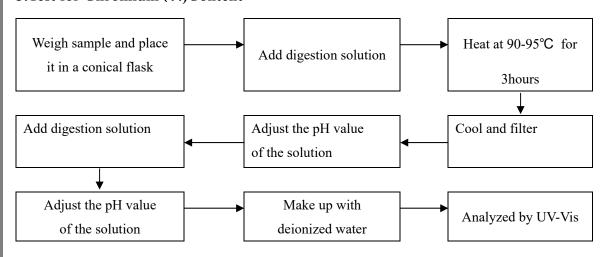
#### 1. Test for Pb/Cd Content



#### 2. Test for Hg Content



#### 3. Test for Chromium (VI) Content



Report No. HTT202110369CH

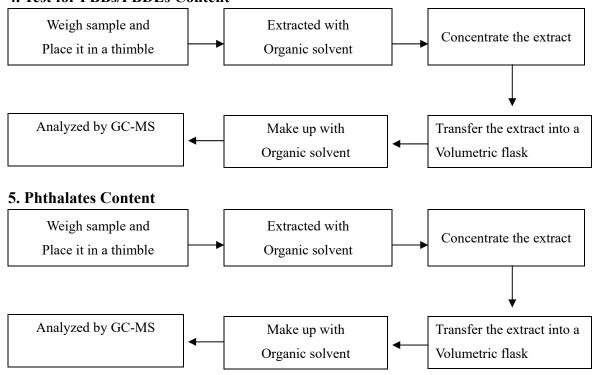
Hotline: 400-6655-351 Tel: 0755-23595200

Fax: 0755-23595201

Page 13 of 16



#### 4. Test for PBBs/PBDEs Content

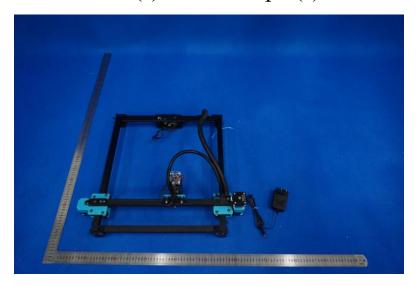


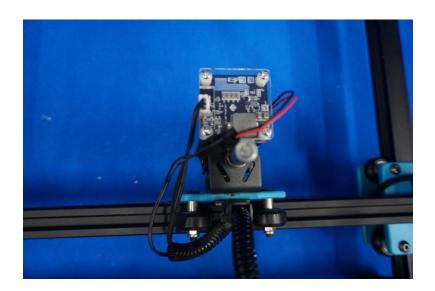
Report No. HTT202110369CH

Hotline: 400-6655-351 Tel: 0755-23595200 Fax: 0755-23595201 http://www.httprc.com



Photo(s) of the sample(s)



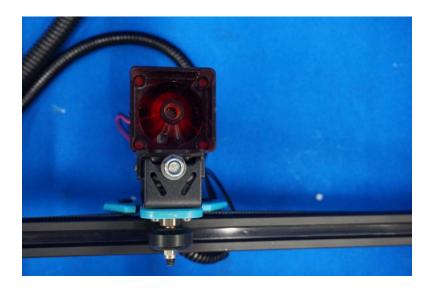


Report No. HTT202110369CH Hotline: 400-6655-351

Page 15 of 16 Tel: 0755-23595200 Fax: 0755-23595201 http://www.httprc.com







\*\*\* End of report \*\*\*

This report is considered invalidated without the Special Seal for Inspection of the HTT. This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of HTT, this test report shall not be copied except in full and published as advertisement.

Report No. HTT202110369CH

Hotline: 400-6655-351 Tel: 0755-23595200 Fax: 0755-23595201 http://www.httprc.com

Page 16 of 16