



中国认可  
国际互认  
检测  
TESTING  
CNAS L4549

# Test Report

Report No.: JC-RCPC240305S1

For RoHS Directive 2011/65/EU Annex II & (EU) 2015/863

**Applicant:** FUUMY TECHNOLOGY (DONGGUAN) CO., LTD

**Manufacturer:** FUUMY TECHNOLOGY (DONGGUAN) CO., LTD

**Name of Sample:** Disposable Electronic Cigarette

**Brand:** TUGBOAT

**Model:** T12000 S63

**Date of Issuance:** Apr. 17, 2024

**Skyte Testing Services Guangdong Co., Ltd.**



# Test Report



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CNAS L4549

Report No.: JC-RCPC240305S1

Report Date: Apr. 17, 2024

Applicant Name: FUUMY TECHNOLOGY (DONGGUAN) CO., LTD  
Applicant Add.: Building 7, 224 Taian Road, Changan, Dongguan, Guangdong, China  
Manufacturer : FUUMY TECHNOLOGY (DONGGUAN) CO., LTD  
Manufacturer Add.: Building 7, 224 Taian Road, Changan, Dongguan, Guangdong, China

Test samples were submitted by the applicant, report on the submitted samples said to be:

Sample Name: Disposable Electronic Cigarette  
Brand: TUGBOAT  
Model: T12000 S63

Sample Received Date: Apr. 09, 2024  
Testing Period: Apr. 09, 2024 to Apr. 17, 2024

Tests Conducted: As requested by the applicant. See the following pages for details.

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**Test Requirement and Conclusion:**

Test Items	Standard	Conclusion
Pb, Cd, Hg, Cr <sup>6+</sup> , DBP, BBP, DEHP, DIBP, PBBs, PBDEs	EU RoHS Directive 2011/65/EU Annex II & (EU) 2015/863	See test results

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Signed for and on behalf of Skyte Testing Services Guangdong Co., Ltd.

Vanessa Huang / Technical Director  
CNAS Approved Signatory

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## Test Results

Test Items	Test Component No. & Test Results (mg/kg)			MDL (mg/kg)	Limits <sup>#1</sup> (mg/kg)
	(1+2+3)*	(4+5+11+12)*	(6+7+8+9+10)*		
Cadmium (Cd)	N.D.	N.D.	N.D.	2	100
Lead (Pb)	N.D.	N.D.	N.D.	2	1000
Mercury (Hg)	N.D.	N.D.	N.D.	2	1000
Chromium (VI) (Cr <sup>6+</sup> )	N.D.	N.D.	N.D.	1	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	50	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	50	1000
Diethyl hexyl phthalate (DEHP)	N.D.	N.D.	N.D.	50	1000
Di-iso-butyl ortho-phthalate (DIBP)	N.D.	N.D.	N.D.	50	1000
Sum of Polybrominated Biphenyls (PBBs)	N.D.	N.D.	N.D.	—	1000
Monobromobiphenyl (MonoBB)	N.D.	N.D.	N.D.	5	—
Dibromobiphenyl (DiBB)	N.D.	N.D.	N.D.	5	—
Tribromobiphenyl (TriBB)	N.D.	N.D.	N.D.	5	—
Tetrabromobiphenyl (TetraBB)	N.D.	N.D.	N.D.	5	—
Pentabromobiphenyl (PentaBB)	N.D.	N.D.	N.D.	5	—
Hexabromobiphenyl (HexaBB)	N.D.	N.D.	N.D.	5	—
Heptabromobiphenyl (HeptaBB)	N.D.	N.D.	N.D.	5	—
Octabromobiphenyl (OctaBB)	N.D.	N.D.	N.D.	5	—
Nonabromobiphenyl (NonaBB)	N.D.	N.D.	N.D.	5	—
Decabromobiphenyl (DecaBB)	N.D.	N.D.	N.D.	5	—
Sum of Polybrominated Diphenyl Ethers (PBDEs)	N.D.	N.D.	N.D.	—	1000
Monobromodiphenyl Ether (MonoBDE)	N.D.	N.D.	N.D.	5	—
Dibromodiphenyl Ether (DiBDE)	N.D.	N.D.	N.D.	5	—
Tribromodiphenyl Ether (TriBDE)	N.D.	N.D.	N.D.	5	—
Tetrabromodiphenyl Ether (TetraBDE)	N.D.	N.D.	N.D.	5	—
Pentabromodiphenyl Ether (PentaBDE)	N.D.	N.D.	N.D.	5	—
Hexabromodiphenyl Ether (HexaBDE)	N.D.	N.D.	N.D.	5	—
Heptabromodiphenyl Ether (HeptaBDE)	N.D.	N.D.	N.D.	5	—
Octabromodiphenyl Ether (OctaBDE)	N.D.	N.D.	N.D.	5	—
Nonabromodiphenyl Ether (NonaBDE)	N.D.	N.D.	N.D.	5	—
Decabromodiphenyl Ether (DecaBDE)	N.D.	N.D.	N.D.	5	—

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Test Items	Test Component No. & Test Results (mg/kg)		MDL (mg/kg)	Limits <sup>#1</sup> (mg/kg)
	(13+14+15+16+17+18+19)*	(20+21)*		
Cadmium (Cd)	N.D.	N.D.	2	100
Lead (Pb)	N.D.	N.D.	2	1000
Mercury (Hg)	N.D.	N.D.	2	1000
Chromium (VI) (Cr <sup>6+</sup> )	N.D.	N.D.	1	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	50	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	50	1000
Diethyl hexyl phthalate (DEHP)	N.D.	N.D.	50	1000
Di-iso-butyl ortho-phthalate (DIBP)	N.D.	N.D.	50	1000
Sum of Polybrominated Biphenyls (PBBs)	N.D.	N.D.	—	1000
Monobromobiphenyl (MonoBB)	N.D.	N.D.	5	—
Dibromobiphenyl (DiBB)	N.D.	N.D.	5	—
Tribromobiphenyl (TriBB)	N.D.	N.D.	5	—
Tetrabromobiphenyl (TetraBB)	N.D.	N.D.	5	—
Pentabromobiphenyl (PentaBB)	N.D.	N.D.	5	—
Hexabromobiphenyl (HexaBB)	N.D.	N.D.	5	—
Heptabromobiphenyl (HeptaBB)	N.D.	N.D.	5	—
Octabromobiphenyl (OctaBB)	N.D.	N.D.	5	—
Nonabromobiphenyl (NonaBB)	N.D.	N.D.	5	—
Decabromobiphenyl (DecaBB)	N.D.	N.D.	5	—
Sum of Polybrominated Diphenyl Ethers (PBDEs)	N.D.	N.D.	—	1000
Monobromodiphenyl Ether (MonoBDE)	N.D.	N.D.	5	—
Dibromodiphenyl Ether (DiBDE)	N.D.	N.D.	5	—
Tribromodiphenyl Ether (TriBDE)	N.D.	N.D.	5	—
Tetrabromodiphenyl Ether (TetraBDE)	N.D.	N.D.	5	—
Pentabromodiphenyl Ether (PentaBDE)	N.D.	N.D.	5	—
Hexabromodiphenyl Ether (HexaBDE)	N.D.	N.D.	5	—
Heptabromodiphenyl Ether (HeptaBDE)	N.D.	N.D.	5	—
Octabromodiphenyl Ether (OctaBDE)	N.D.	N.D.	5	—
Nonabromodiphenyl Ether (NonaBDE)	N.D.	N.D.	5	—
Decabromodiphenyl Ether (DecaBDE)	N.D.	N.D.	5	—

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Test Items	Test Component No. & Test Results (mg/kg)			MDL (mg/kg)	Limits (mg/kg)
	29	30	31		
Cadmium (Cd)	N.D.	N.D.	N.D.	2	100
Lead (Pb)	15	27	N.D.	2	1000
Mercury (Hg)	N.D.	N.D.	N.D.	2	1000
Chromium (VI) (Cr <sup>6+</sup> )	N.D.	N.D.	N.D.	1	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	50	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	50	1000
Diethyl hexyl phthalate (DEHP)	N.D.	N.D.	N.D.	50	1000
Di-iso-butyl ortho-phthalate (DIBP)	N.D.	N.D.	N.D.	50	1000
Sum of Polybrominated Biphenyls (PBBs)	N.D.	N.D.	N.D.	—	1000
Monobromobiphenyl (MonoBB)	N.D.	N.D.	N.D.	5	—
Dibromobiphenyl (DiBB)	N.D.	N.D.	N.D.	5	—
Tribromobiphenyl (TriBB)	N.D.	N.D.	N.D.	5	—
Tetrabromobiphenyl (TetraBB)	N.D.	N.D.	N.D.	5	—
Pentabromobiphenyl (PentaBB)	N.D.	N.D.	N.D.	5	—
Hexabromobiphenyl (HexaBB)	N.D.	N.D.	N.D.	5	—
Heptabromobiphenyl (HeptaBB)	N.D.	N.D.	N.D.	5	—
Octabromobiphenyl (OctaBB)	N.D.	N.D.	N.D.	5	—
Nonabromobiphenyl (NonaBB)	N.D.	N.D.	N.D.	5	—
Decabromobiphenyl (DecaBB)	N.D.	N.D.	N.D.	5	—
Sum of Polybrominated Diphenyl Ethers (PBDEs)	N.D.	N.D.	N.D.	—	1000
Monobromodiphenyl Ether (MonoBDE)	N.D.	N.D.	N.D.	5	—
Dibromodiphenyl Ether (DiBDE)	N.D.	N.D.	N.D.	5	—
Tribromodiphenyl Ether (TriBDE)	N.D.	N.D.	N.D.	5	—
Tetrabromodiphenyl Ether (TetraBDE)	N.D.	N.D.	N.D.	5	—
Pentabromodiphenyl Ether (PentaBDE)	N.D.	N.D.	N.D.	5	—
Hexabromodiphenyl Ether (HexaBDE)	N.D.	N.D.	N.D.	5	—
Heptabromodiphenyl Ether (HeptaBDE)	N.D.	N.D.	N.D.	5	—
Octabromodiphenyl Ether (OctaBDE)	N.D.	N.D.	N.D.	5	—
Nonabromodiphenyl Ether (NonaBDE)	N.D.	N.D.	N.D.	5	—
Decabromodiphenyl Ether (DecaBDE)	N.D.	N.D.	N.D.	5	—

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Test Items	Test Component No. & Test Results				MDL	Limits	Unit
	22	23	24	25			
Cadmium (Cd)	N.D.	15	N.D.	N.D.	2	100	mg/kg
Lead (Pb)	48	338	113	64	2	1000	mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	2	1000	mg/kg
Chromium (VI) (Cr <sup>6+</sup> )	Negative <sup>#2</sup>	Negative <sup>#2</sup>	Negative <sup>#2</sup>	Negative <sup>#2</sup>	0.10	1000	µg/cm <sup>2</sup>

Test Items	Test Component No. & Test Results				MDL	Limits	Unit
	26	27	28	32			
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	2	100	mg/kg
Lead (Pb)	83	81	145	63	2	1000	mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	2	1000	mg/kg
Chromium (VI) (Cr <sup>6+</sup> )	Negative <sup>#2</sup>	Negative <sup>#2</sup>	Negative <sup>#2</sup>	Negative <sup>#2</sup>	0.10	1000	µg/cm <sup>2</sup>

Tested by: Xu Guichun, Chen Junlong

Checked by: Zheng Caiju, Huang Xiangwei

**Remarks:**

- (1) mg/kg = milligram per kilogram
- (2) µg/cm<sup>2</sup> = micrograms per square centimeter
- (3) MDL = method detection limit
- (4) N.D. = not detected, less than MDL
- (5) \* = As per the applicant's request, the mixed test was conducted.
- (6) #1 = The limit for the test result is 1/n of the value in column (where "n" is the number of mixed samples).
- (7) #2 = A Negative result indicates no Cr<sup>6+</sup> detected, a Positive result indicates the presence of Cr<sup>6+</sup>.
- (8) According to the applicant's requirement, this test report is a replacement of the original test report JC-RCPC240305 issued on Apr. 17, 2024. It is hereby declared that the original test report JC-RCPC240305 is invalid.

**Test Component Descriptions:**

1. Blue plastic with printing (shell)
2. Blue plastic (mouthpiece)
3. Blue soft plastic with printing (decorative ring)
4. Black plastic (inner shell)
5. Transparent colorless plastic (e-liquid storage tube)
6. White soft plastic (e-cigarette controller sealing ring)
7. White soft silicone (upper rubber stopper)
8. White soft silicone (bottom rubber stopper)
9. Orange soft plastic (mouthpiece sealing plug)

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10. Blue soft plastic (key)
11. Black plastic with viscose (display)
12. White plastic with black plastic (heating core base)
13. White plastic (fiberglass tube)
14. White foam (e-liquid storage cotton)
15. White sponge (e-liquid absorption cotton)
16. White sponge (e-liquid guide cotton)
17. White sponge (e-liquid separate cotton)
18. Black foam with viscose (battery EVA pad)
19. Green viscose paper with viscose (battery gasket)
20. Black plastic (wire sheath)
21. Red plastic (wire sheath)
22. Silvery metal (electric wire)
23. Silvery metal (heating coil)
24. Silvery metal (USB)
25. Silvery metal (e-cigarette controller)
26. Silvery metal (heating coil bracket)
27. Black metal (screw)
28. Silvery metal (battery contact)
29. Grey plastic with silvery metal (USB)
30. Circuit board with various components (PCB)
31. Black plastic with white font (display)
32. Golden and silvery metal (key)

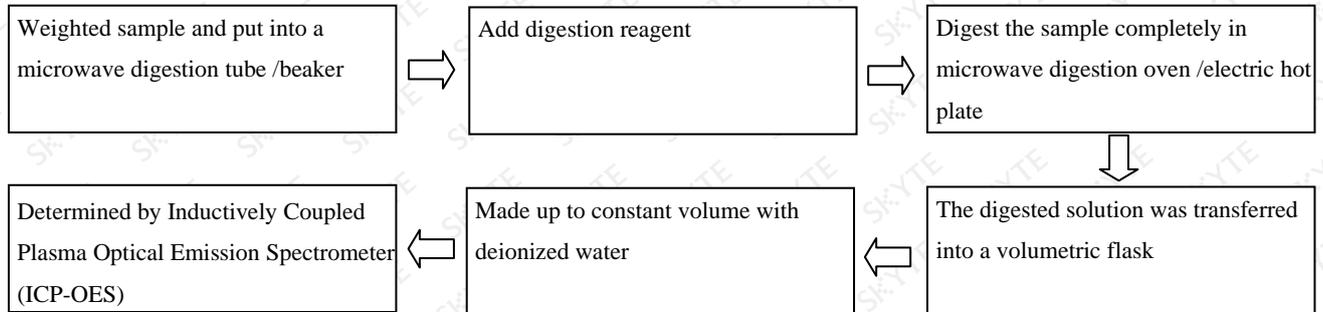
## Test Methods

Test Items	Test Methods	Test Instruments
Cd, Pb	IEC 62321-5:2013	ICP-OES
Hg	IEC 62321-4:2013+AMD 1:2017 CSV	ICP-OES
Cr <sup>6+</sup>	IEC 62321-7-1:2015 / IEC 62321-7-2:2017	UV-Vis
PBBs, PBDEs	IEC 62321-6:2015	GC-MS
DBP, BBP, DEHP, DIBP	IEC 62321-8:2017	GC-MS

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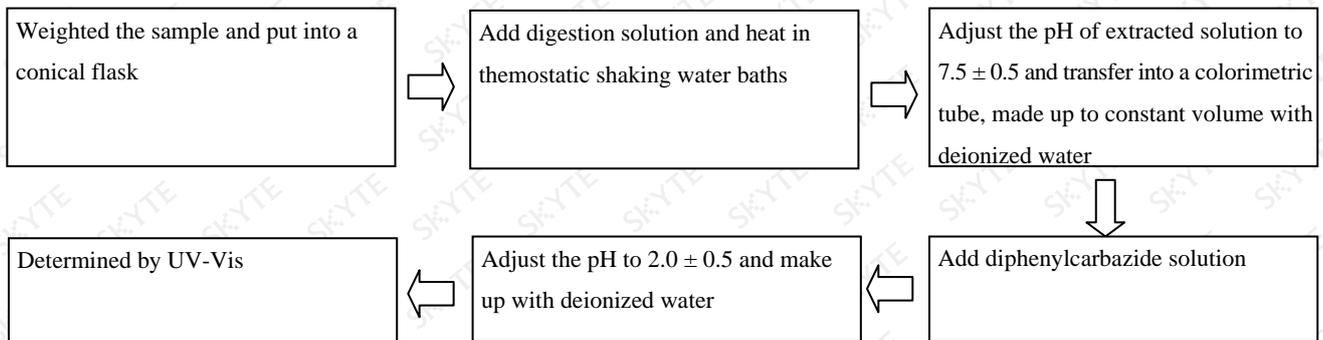
## Test Flowchart

### 1. Test for Cd / Pb /Hg contents

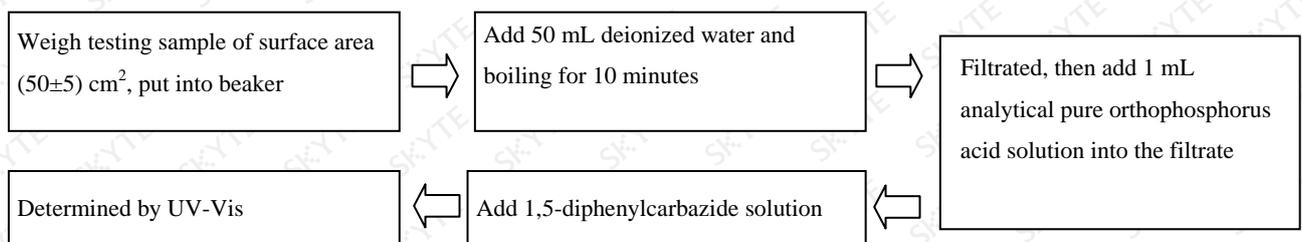


### 2. Test for Cr<sup>6+</sup> content

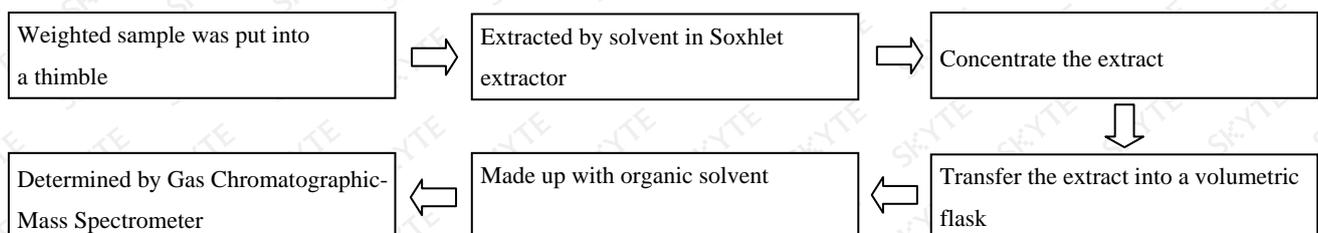
#### 2.1 Determination of Cr<sup>6+</sup> in polymers and electronics by the colorimetric method



#### 2.2 Determination of Cr<sup>6+</sup> in colourless and coloured corrosion-protected coatings on metals by the colorimetric method

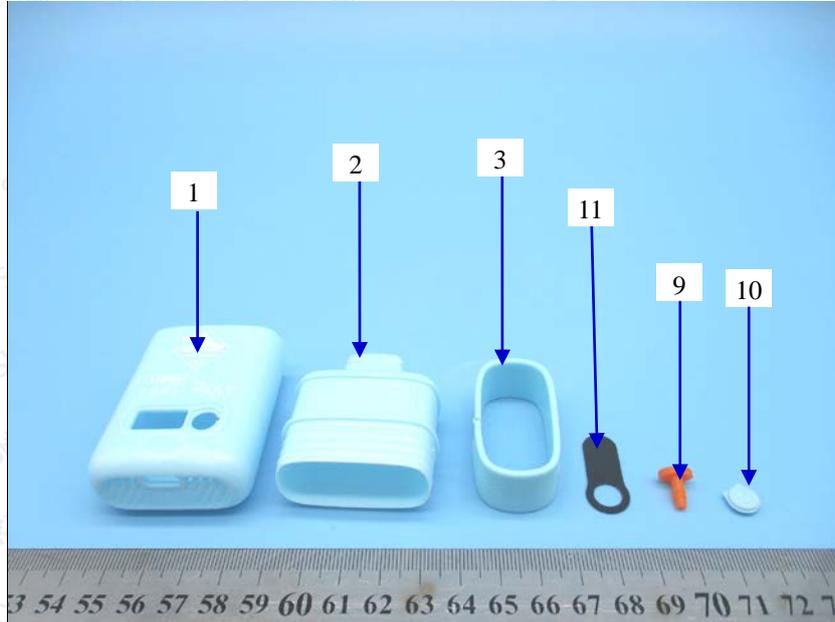


### 3. Test for PBBs / PBDEs, DBP, BBP, DEHP, DIBP contents



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## Sample Photos



Test Component No.1: Blue plastic with printing (shell)

Test Component No.2: Blue plastic (mouthpiece)

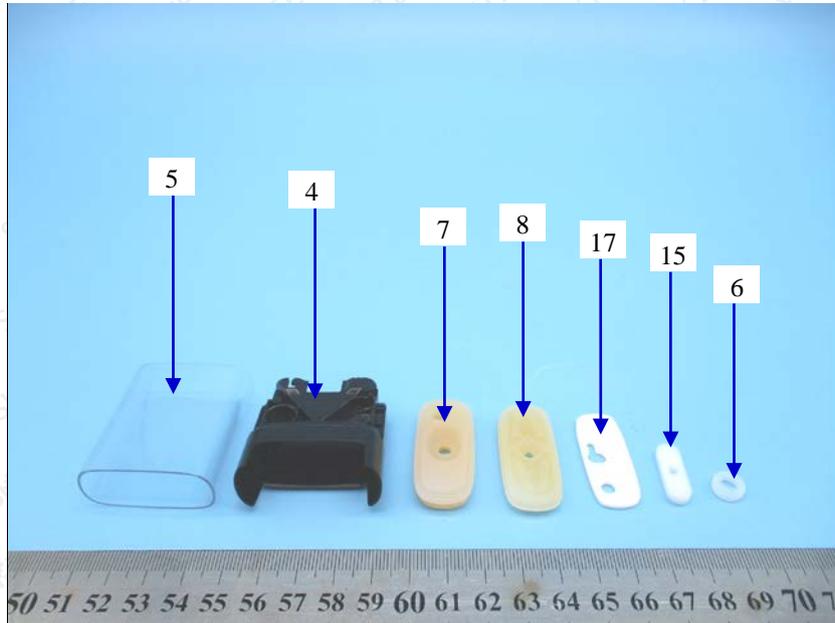
Test Component No.3: Blue soft plastic with printing (decorative ring)

Test Component No.9: Orange soft plastic (mouthpiece sealing plug)

Test Component No.10: Blue soft plastic (key)

Test Component No.11: Black plastic with viscose (display)

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Test Component No.4: Black plastic (inner shell)

Test Component No.5: Transparent colorless plastic (e-liquid storage tube)

Test Component No.6: White soft plastic (e-cigarette controller sealing ring)

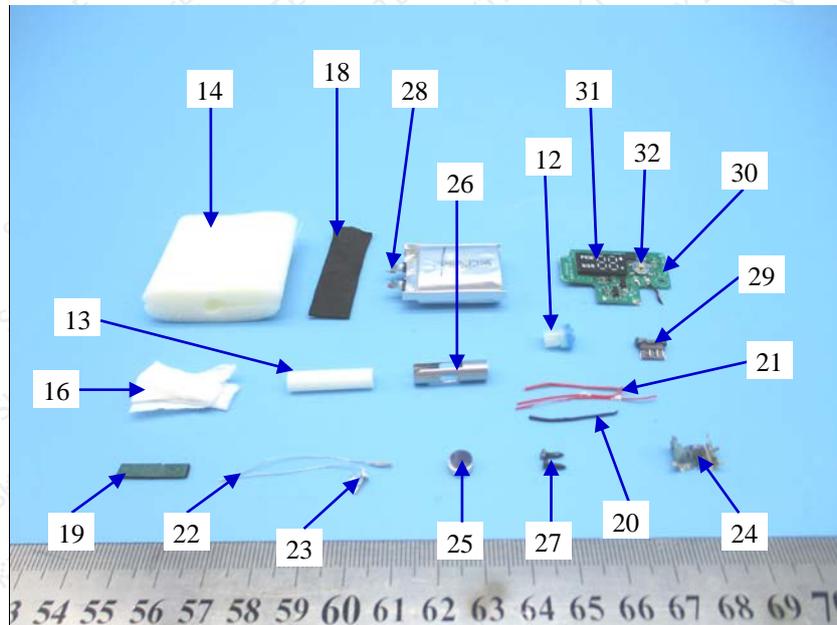
Test Component No.7: White soft silicone (upper rubber stopper)

Test Component No.8: White soft silicone (bottom rubber stopper)

Test Component No.15: White sponge (e-liquid absorption cotton)

Test Component No.17: White sponge (e-liquid separate cotton)

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Test Component No.12: White plastic with black plastic (heating core base)

Test Component No.13: White plastic (fiberglass tube)

Test Component No.14: White foam (e-liquid storage cotton)

Test Component No.16: White sponge (e-liquid guide cotton)

Test Component No.18: Black foam with viscose (battery EVA pad)

Test Component No.19: Green viscose paper with viscose (battery gasket)

Test Component No.20: Black plastic (wire sheath)

Test Component No.21: Red plastic (wire sheath)

Test Component No.22: Silvery metal (electric wire)

Test Component No.23: Silvery metal (heating coil)

Test Component No.24: Silvery metal (USB)

Test Component No.25: Silvery metal (e-cigarette controller)

Test Component No.26: Silvery metal (heating coil bracket)

Test Component No.27: Black metal (screw)

Test Component No.28: Silvery metal (battery contact)

Test Component No.29: Grey plastic with silvery metal (USB)

Test Component No.30: Circuit board with various components (PCB)

Test Component No.31: Black plastic with white font (display)

Test Component No.32: Golden and silvery metal (key)

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**Finished Product**

(End of report)

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