





Report No.: JC-RCPC240305S1

For RoHS *Directive 2011/65/EU Annex [[&(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.









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.

Test Requirement and Conclusion:

Standard	Conclusion
EU RoHS Directive 2011/65/EU Annex II &	See test results

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

Vanessa Huang / Technical Director

CNAS Approved Signatory

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Test Results

	Test Compo	MDL	Limits#1			
Test Items	(1+2+3)*	(4+5+11+12)*	(6+7+8+9+10)*	(mg/kg)	(mg/kg)	
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 ⁶⁺)	N.D.	N.D.	N.D.	1 9	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.	(<u>*</u> -	1000	
Monobromobiphenyl (MonoBB)	N.D.	S N.D.	N.D.	5	_5	
Dibromobiphenyl (DiBB)	N.D.	N.D.	N.D.	5	Y	
Tribromobiphenyl (TriBB)	N.D.	S N.D. S	N.D.	5	, =	
Tetrabromobiphenyl (TetraBB)	N.D.	N.D.	N.D.	5		
Pentabromobiphenyl (PentaBB)	N.D.	S. N.D.	N.D.	5	, —	
Hexabromobiphenyl (HexaBB)	N.D.	N.D.	N.D.	5	- Si-1	
Heptabromobiphenyl (HeptaBB)	N.D.	N.D.	N.D.	5		
Octabromobiphenyl (OctaBB)	N.D.	N.D.	N.D.	5	517	
Nonabromobiphenyl (NonaBB)	N.D.	N.D.	N.D.	5	, —,	
Decabromobiphenyl (DecaBB)	N.D.	N.D.	N.D.	5	5	
Sum of Polybrominated Diphenyl Ethers (PBDEs)	N.D.	N.D.	N.D.	. — . (1000	
Monobromodiphenyl Ether (MonoBDE)	N.D.	N.D.	N.D.	-5	3	
Dibromodiphenyl Ether (DiBDE)	N.D.	N.D.	N.D.	5		
Tribromodiphenyl Ether (TriBDE)	N.D.	N.D.	N.D.	5	Zi	
Tetrabromodiphenyl Ether (TetraBDE)	N.D.	N.D.	N.D.	5	.	
Pentabromodiphenyl Ether (PentaBDE)	N.D.	N.D.	N.D.	95	2	
Hexabromodiphenyl Ether (HexaBDE)	N.D.	N.D.	N.D.	5	-4	
Heptabromodiphenyl Ether (HeptaBDE)	N.D.	N.D.	N.D.	5 5	2	
Octabromodiphenyl Ether (OctaBDE)	N.D.	N.D.	N.D.	5	11/1	
Nonabromodiphenyl Ether (NonaBDE)	S N.D.	N.D.	N.D.	5	2,	
Decabromodiphenyl Ether (DecaBDE)	N.D.	N.D.	N.D.	- 5	177	

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the the strength of	Test Component No. & Test I	MDL	Limits#1		
Test Items	(13+14+15+16+17+18+19)*	(20+21)*	(mg/kg)	(mg/kg)	
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 ⁶⁺)	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.S	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.	7	1000	
Monobromobiphenyl (MonoBB)	N.D.	N.D.	5 5		
Dibromobiphenyl (DiBB)	N.D.	N.D.	5	<	
Tribromobiphenyl (TriBB)	N.D.	N.D.	55	-5	
Tetrabromobiphenyl (TetraBB)	N.D.	N.D.	5	(×	
Pentabromobiphenyl (PentaBB)	N.D.	S N.D.	5	<u>-Si</u>	
Hexabromobiphenyl (HexaBB)	N.D.	N.D.	5 5		
Heptabromobiphenyl (HeptaBB)	N.D.	N.D.	5	5	
Octabromobiphenyl (OctaBB)	N.D.	N.D.	5		
Nonabromobiphenyl (NonaBB)	N.D.	N.D.	5		
Decabromobiphenyl (DecaBB)	N.D.	N.D.	5	3:3	
Sum of Polybrominated Diphenyl Ethers (PBDEs)	N.D.	N.D.	. — <	1000	
Monobromodiphenyl Ether (MonoBDE)	N.D.	N.D.	5	5	
Dibromodiphenyl Ether (DiBDE)	N.D.	N.D.	. 5		
Tribromodiphenyl Ether (TriBDE)	N.D.	N.D.	5	3	
Tetrabromodiphenyl Ether (TetraBDE)	N.D.	N.D.	5	7	
Pentabromodiphenyl Ether (PentaBDE)	N.D.	N.D.	95	2	
Hexabromodiphenyl Ether (HexaBDE)	N.D.	N.D.	5	A.E.	
Heptabromodiphenyl Ether (HeptaBDE)	N.D.	N.D.	5 5	5	
Octabromodiphenyl Ether (OctaBDE)	N.D.	N.D.	-5		
Nonabromodiphenyl Ether (NonaBDE)	SN.D.	N.D.	5	7.	
Decabromodiphenyl Ether (DecaBDE)	N.D.	N.D.	5	11.1	

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Report No.: JC-RCPC240305S1

The standards standards	Test Component No. & Test Results (mg/kg)				Limits	
Test Items	29	30	31	MDL (mg/kg)	(mg/kg)	
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 9	1000	
Chromium (VI) (Cr ⁶⁺)	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.	9 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.	Sw. N.D.	N.D.		1000	
Monobromobiphenyl (MonoBB)	N.D.	N.D.	N.D.	5	-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.	5 N.D. 5	5	-9;	
Hexabromobiphenyl (HexaBB)	N.D.	N.D.	N.D.	5 5	F	
Heptabromobiphenyl (HeptaBB)	N.D.	N.D.	9 N.D.	5	24.	
Octabromobiphenyl (OctaBB)	N.D.	N.D.	N.D.	5		
Nonabromobiphenyl (NonaBB)	N.D.	N.D.	S ^N .D.	5	5	
Decabromobiphenyl (DecaBB)	N.D.	N.D.	N.D.	5	4	
Sum of Polybrominated Diphenyl Ethers (PBDEs)	N.D.	N.D.	N.D.		1000	
Monobromodiphenyl Ether (MonoBDE)	N.D.	N.D.	N.D.	5	3:1	
Dibromodiphenyl Ether (DiBDE)	N.D.	N.D.	N.D.	5	(1)	
Tribromodiphenyl Ether (TriBDE)	N.D.	N.D.	N.D.	55	4:	
Tetrabromodiphenyl Ether (TetraBDE)	N.D.	N.D.	N.D.	5	4	
Pentabromodiphenyl Ether (PentaBDE)	N.D.	N.D.	N.D.	95	<u> </u>	
Hexabromodiphenyl Ether (HexaBDE)	N.D.	N.D.	N.D.	5	± E	
Heptabromodiphenyl Ether (HeptaBDE)	S N.D. S	N.D.	N.D.	95	5	
Octabromodiphenyl Ether (OctaBDE)	N.D.	N.D.	N.D.	5	1.47	
Nonabromodiphenyl Ether (NonaBDE)	S N.D. S	N.D.	N.D.	5	5	
Decabromodiphenyl Ether (DecaBDE)	N.D.	N.D.	N.D.	5		

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Tr. 4 14	Test Component No. & Test Results			MDI		Sitt.	
Test Items	22	S 23	24	25	MDL	Limits	Unit
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 ⁶⁺)	Negative ^{#2}	Negative ^{#2}	Negative ^{#2}	Negative ^{#2}	0.10	1000	μg/cm ²

of all of	Test	Test Component No. & Test Results			51:	5	\$\frac{1}{2} \tag{5}
Test Items	26	27	28	32	MDL	Limits	Unit
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 ⁶⁺)	Negative ^{#2}	Negative ^{#2}	Negative ^{#2}	Negative ^{#2}	0.10	1000	μg/cm ²

Tested by: Xu Guichun, Chen Junlong

Checked by: Zheng Caiju, Huang Xiangwei

Remarks:

- (1) mg/kg = milligram per kilogram
- (2) $\mu g/cm^2$ = 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^{6+} detected, a Positive result indicates the presence of Cr^{6+} .
- (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 ⁶⁺	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				
Weighted sample and put into a microwave digestion tube /beaker	\Rightarrow	Add digestion reagent		Digest the sample completely in microwave digestion oven /electric hot plate
Si., Si., Si., Si.,			- - -	
Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)		Made up to constant volume with deionized water		The digested solution was transferred into a volumetric flask
2. Test for Cr ⁶⁺ content 2.1 Determination of Cr ⁶⁺ in polymers	s and	electronics by the colorimetric met	hod	
Weighted the sample and put into a conical flask		Add digestion solution and heat in themostatic shaking water baths		Adjust the pH of extracted solution to 7.5 ± 0.5 and transfer into a colorimetric tube, made up to constant volume with deionized water
		E STE STEEL STEEL		
Determined by UV-Vis		Adjust the pH to 2.0 ± 0.5 and make up with deionized water		Add diphenylcarbazide solution
2.2 Determination of Cr ⁶⁺ in colourles	s and	coloured corrosion-protected coati	ings on	metals by the colorimetric method
Weigh testing sample of surface area (50±5) cm ² , put into beaker	ightharpoons	Add 50 mL deionized water and boiling for 10 minutes		Filtrated, then add 1 mL analytical pure orthophosphorus acid solution into the filtrate
Determined by UV-Vis	<u> </u>	Add 1,5-diphenylcarbazide solution		acid solution into the intrate
3. Test for PBBs / PBDEs, DBP, BE	3P, D			ALL SEALE SEALE SEALE
Weighted sample was put into a thimble	\Rightarrow	Extracted by solvent in Soxhlet extractor	$] \Leftrightarrow$	Concentrate the extract
Determined by Gas Chromatographic- Mass Spectrometer		Made up with organic solvent		Transfer the extract into a volumetric flask

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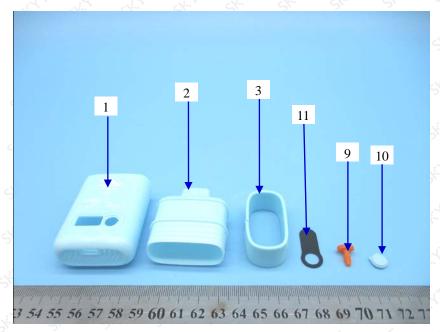
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Sample Photos



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)

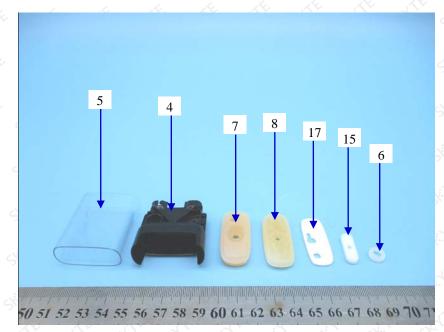
Test Component No.10: Blue soft plastic (key)

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









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)

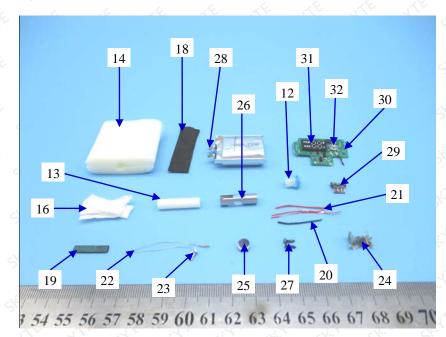
Test Component No.15: White sponge (e-liquid absorption cotton)

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









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)









Finished Product

(End of report)