

Report No.: TCT180116C011 Date: Jan. 24, 2018 Page No.: 1 of 6

Applicant: Shenzhen Wotofo Technology Co., LTD

Address: Room 408, F4, Block A, MingYou Business Center, Baoyuan Rd, Bao'an

District. Shenzhen China

The following sample was submitted and identified by/on behalf of the client as:

Sample Name: Recurve RDA

Model No.: RDA

Power level in testing: Voltage/Wattage of tested sample is un-adjustable

Adjustable air inlet or not: Yes

Trade Mark: WOTOFO

Sample Received Date: 2018.01.16
Testing Period: 2018.01.16-2018.01.24

Test Requested:

1. As specified by client, to determine the Carbonyl Compounds content(s)

in aerosol generated by the submitted sample.

2. As specified by client, to determine the Metals content(s) in aerosol

generated by the submitted sample.

3. As specified by client, to determine Nicotine consistency in aerosol

generated by the submitted sample.

Test Method: Please refer to the following page(s).

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

Checked by

Noel Yin

Signed for and on behalf of TCT

Kim Zhang

Technical Manager



Report No.: TCT180116C011 Date: Jan. 24, 2018 Page No.: 2 of 6

Test Results:

Test Condition for test items except Nicotine consistency test:

With reference to the CORESTA RECOMMENDED METHOD Nº 81 method parameter and Afnor standardization XP D90-300-3, a smoke machine was used to collect the vapor.

Puff Duration	3.0s±0.1s			
Puff Volume	55mL±0.3mL			
Puff Frequency	30s±0.5s			
Puff of Each Group	20			
Group Interval Time	300s±120s			
Maximum Flow	18.5mL/s±1.0mL/s			
Pressure Drop	< 50hPa			
Group	5			
Total Number of Puff	100			
Total Duration of Vaporization	300s			

The temperature and relative humidity of the test atmosphere during machine preparation and testing shall be kept within the following limits: temperature ±2°C, relative humidity ±5%

Sample I 1. Recu	Description: rve RDA				



Report No.: TCT180116C011 Date: Jan. 24, 2018 Page No.: 3 of 6

1. Carbonyl Compounds Content(s)

Method: Using volumes based on the desired dilution, a measured volume of sample was combined with a volume of DNPH solution and vortexed. After sitting for 20 minutes at ambient temperature, the sample was then quenched with a sufficient amount of pyridine. An aliquot was then analyzed using the Agilent Model 1200, High Performance Liquid Chromatograph equipped with an Ultraviolet (UV) Detector operating at 365 nm.

Test Item CA	CAS No. Unit	Linit	MDL	LOQ	Content(s)		
		IVIDL	LOQ	1	(C_{i})		
Formaldehyde	50-00-0	ug/100puffs	0.667	2	73.0		
Acetaldehyde	75-07-0	ug/100puffs	0.667	2	12.2		
Acrolein	107-02-8	ug/100puffs	0.667	2	ND		

Note: - ug = Microgram

- ND = Not Detected (lower than MDL)

- MDL = Method Detection Limit

- LOQ = Limit of Quantitation

- E-Liquid Used: E-liquid B (AFNOR XP D90-300-3)





Report No.: TCT180116C011 Date: Jan. 24, 2018 Page No.: 4 of 6

2. Metals Content(s)

Method: The vapor was passed through a dry-ice cooled impinger containing glass packing beads and quartz wool. After smoking the impinger was extracted with 5% nitric acid and filtered through quartz wool. An aliquot of the resulting solution was submitted for analysis by ICP-OES.

Toot Itom	CAS No.	Hnit	MDL	LOQ	Content(s)
Test Item CAS N	CAS NO.	Unit	IVIDL	LOQ	1
Aluminium(Al)	7429-90-5	ug/100puffs	0.025	0.25	ND (4)
Chromium(Cr)	7440-47-3	ug/100puffs	0.005	0.05	ND ND
Iron(Fe)	7439-89-6	ug/100puffs	0.005	0.05	ND
Nickel(Ni)	7440-02-0	ug/100puffs	0.025	0.25	ND-
Tin(Sn)	7440-31-5	ug/100puffs	0.25	2.5	ND

Note: - ug = Microgram

- ND = Not Detected (lower than MDL)

- MDL = Method Detection Limit

- LOQ = Limit of Quantitation

- E-Liquid Used: E-liquid B (AFNOR XP D90-300-3)





Report No.: TCT180116C011 Date: Jan. 24, 2018 Page No.: 5 of 6

3. Nicotine Consistency Test

Test Condition: With reference to the CORESTA RECOMMENDED METHOD N^o 81 method parameter and Afnor standardization XP D90-300-3, a smoke machine was used to collect the vapor.

Puff Duration	3.0s±0.1s
Puff Volume	55mL±0.3mL
Puff of Each Group	20
Maximum Flow	18.5mL/s±1.0mL/s
Pressure Drop	< 50hPa

The temperature and relative humidity of the test atmosphere during machine preparation and testing shall be kept within the following limits: temperature $\pm 2^{\circ}$ C, relative humidity $\pm 5\%$

Method: A reference liquid was prepared. A pharmaceutical nicotine inhaler was used as a comparator. Products were attached to a smoke machine, and the aerosol was collected in Cambridge filter pads. After trapping and solvent extraction, solution was analyzed by GC-MS and nicotine was dosed by comparing the areas obtained on the MS detector with those of standard solutions prepared in the laboratory under concentration conditions surrounding those of the samples.

Sample	Sample Nicotine(CAS No.:54-11-5) Contents(mg / 20 Puffs)						Total(mg/
Description	Group 1*	Group 2	Group 3*	Group 4	Group 5*	AVG	100puffs)
Recurve RDA	1.28	1.28	1.28	1.26	1.31	1.28	6.40
Deviation(%)	0.5	-	0	-	1.9	-	

Note: - mg = milligram

- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit = 0.01 mg / 20 Puffs
- LOQ = Limit of Quantitation = 0.1 mg / 20 Puffs
- 1group = 20 puffs
- * Values used for determination of consistency of nicotine emission
- E-Liquid Used: E-liquid A (AFNOR XP D90-300-3)
- Under the conditions of the test and with reference to AFNOR XP D90-300-3, the electronic cigarette delivers a dose of nicotine at consistent levels.



Report No.: TCT180116C011 Date: Jan. 24, 2018 Page No.: 6 of 6

Photo(s) of the sample(s)



Recurve RDA



Remark: This report is considered invalidated without the Special Seal for Inspection of the TCT. 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 TCT, this test report shall not be copied except in full and published as advertisement.

