

E-Cigarette Aerosol Analysis Report

Report No. : TCT221021C001

Date :Oct. 26, 2022

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Applicant: Damn Vape Co., Limited**Address:** Room 201, No.1 & A building, 1st road Qianwan, Shengang Cooperation Zone, QianHai, Shenzhen**The following sample was submitted and identified by/on behalf of the client as:**

Sample Name: TMF RDA V2
Model No.: TMF
Power level in testing: 30W
Adjustable air inlet or not: Yes
Trade Mark: DAMN VAPE
Sample Received Date: 2022.10.21
Testing Period: 2022.10.21—2022.10.26
Test Method: Please refer to the following page(s).
Test Result(s): Please refer to the following page(s).

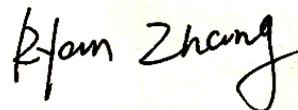
Test Items	Test Requested
1 Carbonyl Compounds: Formaldehyde, Acetaldehyde, Acrolein, Crotonaldehyde	Emission testing according to Article 20 of Tobacco Product Directive (2014/40/EU)
2 Metals: Aluminum, Chromium, Iron, Nickel, Tin, Lead, Cadmium, Arsenic, Antimony	
3 Nicotine consistency	

Checked by



Justin

Approved by

Ryan Zhang
Technical Manager

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Test Results:

Test Condition for test items except Nicotine consistency test:

With reference to the CORESTA RECOMMENDED METHOD N° 81 method parameter, Afnor standardization XP D90-300-3, International Standard ISO 20768:2018 and PD CEN/TR 17236:2018, a vaping machine was used to collect the aerosol.

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 were kept within the following limits: temperature ±2°C, relative humidity ±5%

Specimen Description:

No.1 TMF RDA V2

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1. Carbonyl Compounds Content(s)

Test method: According to XP D90-300-3:2016, the aerosol generated by the e-cigarette is absorbed by the impactor containing 40mL acidified solution of 2,4-dinitrophenylhydrazine (DNPH) in acetonitrile. The solution was filtered and analyzed by reverse phase high - performance liquid chromatography and determined using a UV detector.

Test Item	CAS No.	Unit	LOD	LOQ	Content(s)
					No.1
Formaldehyde	50-00-0	µg/100puffs	1.68	5.34	2.06
Acetaldehyde	75-07-0	µg/100puffs	1.06	3.36	1.60
Acrolein	107-02-8	µg/100puffs	1.14	3.63	ND
Crotonaldehyde	4170-30-3	µg/100puffs	1.43	4.54	ND

- Note:
- µg = Microgram
 - ND = Not Detected (less than LOD)
 - LOD = Limit of Detection
 - LOQ = Limit of Quantification
 - E-Liquid Used: E-liquid B (AFNOR XP D90-300-3)

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2. Metals Content(s)

Test method: According to Afnor XP D90-300-3:2016 Annex A.6, wipe the clamp with isopropyl alcohol. Let stand for a minute. 20 ml of nitric acid was added to the impactor, and placed in series with the Cambridge filter to absorb the aerosol. The Cambridge filter was removed and placed in nitric acid, shaken at 210 rpm for 30 min, and the solution was filtered and analyzed by ICP-MS.

Test Item	CAS No.	Unit	LOD	LOQ	Content(s)
					No.1
Aluminum(Al)	7429-90-5	µg/100puffs	0.025	0.080	ND
Chromium(Cr)	7440-47-3	µg/100puffs	0.0088	0.028	ND
Iron(Fe)	7439-89-6	µg/100puffs	0.017	0.055	ND
Nickel(Ni)	7440-02-0	µg/100puffs	0.0053	0.017	ND
Tin(Sn)	7440-31-5	µg/100puffs	0.028	0.090	ND
Lead(Pb)	7439-92-1	µg/100puffs	0.0063	0.020	ND
Cadmium(Cd)	7440-43-9	µg/100puffs	0.0095	0.030	ND
Arsenic(As)	7440-38-2	µg/100puffs	0.010	0.032	ND
Antimony(Sb)	7440-36-0	µg/100puffs	0.0079	0.025	ND

- Note:
- µg = Microgram
 - ND = Not Detected (less than LOD)
 - LOD = Limit of Detection
 - LOQ = Limit of Quantification
 - E-Liquid Used: E-liquid B (AFNOR XP D90-300-3)

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3. Nicotine Consistency Test

Test Condition: With reference to the CORESTA RECOMMENDED METHOD N° 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 were kept within the following limits: temperature ±2°C, relative humidity ±5%

Test method: According to Afnor XP D90-300-3:2016 Annex A.3, wipe the clamp with isopropyl alcohol. Let stand for a minute. The aerosol generated by the e-cigarette is absorbed by the Cambridge filter. Remove the Cambridge filter and place it into a centrifuge tube, add 20 mL of Isopropyl alcohol and 0.2ml Internal standard stock solution. Shaken at 210 rpm for 30 min, and the solution was filtered and analyzed by GC-FID.

Sample No.	Nicotine(CAS No.:54-11-5) Contents(mg/20Puffs)						Total (mg/100puffs)
	Group 1*	Group 2	Group 3*	Group 4	Group 5*	AVG	
No.1	1.35	1.32	1.30	1.27	1.25	1.30	6.50
Deviation (%)	3.8	-	0.0	-	3.8	-	-

- Note:
- mg = milligram
 - ND = Not Detected (less than LOD)
 - LOD = Limit of Detection = 0.050 mg/20Puffs
 - LOQ = Limit of Quantification =0.15 mg/20Puffs
 - 1group = 20puffs
 - * 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.

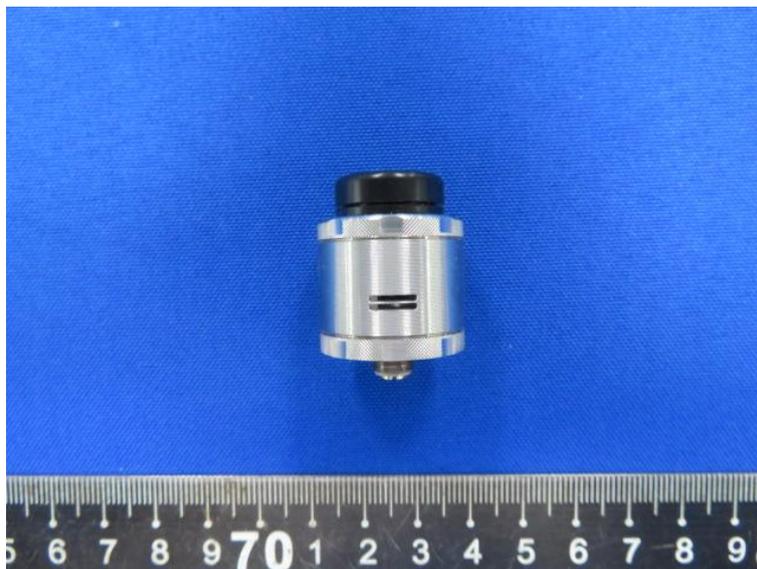
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Photo(s) of the sample(s)



***** End of Report *****

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