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Applicant:	ShenZhen Jieshibo	Technology CO.,Ltd		
Address:	3Building, Xianyux	ing Industrial Park, Fuhe	Road Gonghe Comm	nunity,
	Shajing Street, Bac	an District, Shenzhen Ci	ty, China	
The following sample w	as submitted and id	entified by/on behalf of t	he client as:	
Sample Name:	VPEN Disposable	Vape Pen		
Model No.:	JY1305			
Flavour:	Blue Razz			
Power level in testing:	Voltage/Wattage c	f tested sample is un-adju	stable	
Adjustable air inlet or not	: No			
Trade Mark:		R		
Sample Received Date:	2022.02.16			
Testing Period:	2022.02.16—2022	2.02.21		
Test Method:	Please refer to the	e following page(s).		
Test Result(s):	Please refer to the	e following page(s).		

Test Requested	Test Items
aldehyde, Acrolein, Crotonaldehyde	1 Carbonyl Co
Tin, Lead, Cadmium, Arsenic, Antimony Emission testing	2 Metals: Alum
according to	3 Nicotine con
Article 20 of	4 Diacetyl and
Tobacco Product	5 Ethylene Gly
(NNN), Directive	Specific Nitro
anone(NNK) (2014/40/EU)	4-(N-methyln
utadiene, Isoprene	7 VOC substar
utadiene, Isoprene	7 VOC substar





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Test Results:

Test Condition for test items except Nicotine consistency test:

With reference to the CORESTA RECOMMENDED METHOD Nº 81 method parameter, Afnor standardization XP D90-300-3, International Standard ISO 20768:2018 and PD CEN/TR 17236:2018, 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	$\langle \rangle$		
Puff of Each Group		20	J	
Group Interval Time		300s±120s		
Maximum Flow		18.5mL/s±1.0mL/s		
Pressure Drop		< 50hPa		
Group		5		
Total Number of Puff		100	3	
Total Duration of Vaporization	S)	300s	Ĵ	
	Puff Volume Puff Frequency Puff of Each Group Group Interval Time Maximum Flow Pressure Drop Group Total Number of Puff	Puff Volume Puff Frequency Puff of Each Group Group Interval Time Maximum Flow Pressure Drop Group Total Number of Puff	Puff Volume55mL±0.3mLPuff Frequency30s±0.5sPuff of Each Group20Group Interval Time300s±120sMaximum Flow18.5mL/s±1.0mL/sPressure Drop< 50hPa	

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

Specimen Description:





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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	MDL	Content(s)	
iest item	CAS NO.	Unit	NDL	No.1	
Formaldehyde	50-00-0	µg/100puffs	0.5	ND	
Acetaldehyde	75-07-0	µg/100puffs	0.5	1.77	S.
Acrolein	107-02-8	µg/100puffs	0.5	ND	
Crotonaldehyde	4170-30-3	µg/100puffs	0.5	ND	

- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit



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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.

Toot Itom			MDI	Content(s)
Test Item	CAS No.	Unit	MDL	No.1
Aluminum(Al)	7429-90-5	µg/100puffs	0.01	ND
Chromium(Cr)	7440-47-3	µg/100puffs	0.01	ND
Iron(Fe)	7439-89-6	µg/100puffs	0.01	ND
Nickel(Ni)	7440-02-0	µg/100puffs	0.01	ND
Tin(Sn)	7440-31-5	µg/100puffs	0.01	ND
Lead(Pb)	7439-92-1	µg/100puffs	0.01	ND
Cadmium(Cd)	7440-43-9	µg/100puffs	0.01	ND
Arsenic(As)	7440-38-2	µg/100puffs	0.01	ND
Antimony(Sb)	7440-36-0	µg/100puffs	0.01	ND
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- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit



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3. Nicotine Consistency Test

Test Condition: 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 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 $\pm 2^{\circ}$, relative humidity $\pm 5\%$

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.	Total						
Sample No.	Group 1*	Group 1* Group 2 Group 3* Group 4 Group 5* AVG					
No.1	1.92	1.95	1.91	1.90	1.87	1.91	9.55
Deviation (%)	0.5	-	0.1	-	1.9	-	-

Note: - mg = milligram

- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit = 0.05mg/20Puffs
- 1group = 20puffs
- * Values used for determination of consistency of nicotine emission
- 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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4. Diacetyl and Pentane 2,3 dione Content(s)

Test method: According to Afnor XP D90-300-3:2016 Annex A.4, the aerosol generated by the e-cigarette is absorbed by the impactor containing 20mL methanol. The solution was filtered and analyzed by GC-MS.

Toot Itom			MDI	Content(s)
Test Item	CAS No.	Unit	MDL	No.1
Diacetyl	431-03-8	µg/100puffs	5.0	ND
Pentane 2,3 dione	600-14-6	µg/100puffs	5.0	ND ND

Note: - $\mu g = Microgram$

- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit

5. Ethylene Glycol and Diethylene Glycol Content(s)

Test method: According to SOP-CL-090, wipe the clamp with isopropyl alcohol. Let stand for a minute. 20 ml of methanol 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 methanol, shaken at 210 rpm for 30 min, and the solution was filtered and analyzed by GC-FID.

		AS No. Unit		Content(s)		
Test Item	CAS No.	Unit	MDL	No.1		
Ethylene Glycol	107-21-1	µg/100puffs	1.0	ND		
Diethylene Glycol	111-46-6	µg/100puffs	1.0	ND G		

- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit



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6. Specific Nitrosamines Content(s)

Test method: According to CORESTA Recommended Method No. 75(2019), wipe the clamp with isopropyl alcohol. Let stand for a minute. The aerosol generated by the e-cigarette is absorbed by Cambridge filter, and the Cambridge filter was removed and placed in an Erlenmeyer flask, added to 20 mL of 100 mM ammonium acetate solution, shaken at 210 rpm for 60 min, filtered and analyzed by LC-MS/MS.

Test Item	CAS No.	Unit	MDL	Content(s)		
iest item	CAS NO.	Offic	MDL		No.1	
N-nitrosonornicotine(NNN)	80508-23-2	µg/100puffs	0.2		ND	
4-(N-methylnitrosamino)-1-(64001 01 4	ug/100puffa	0.0			S
3-pyridyl)-1-butanone(NNK)	64091-91-4	µg/100puffs	0.2		ND	

Note: - $\mu g = Microgram$

- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit

7. VOC substances content(s)

Test method: According to CORESTA Recommended Method No.70 (2019), wipe the clamp with isopropyl alcohol. Let stand for a minute. 20 ml of methanol 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 methanol, shaken at 210 rpm for 30 min, and the solution was filtered and analyzed by GC-MS.

Test Item CAS No.		Unit	MDL -	Content(s)	
Test Item	CAS NO.	Unit	NDL	No.1	
Toluene	108-88-3	µg/100puffs	2.0	ND	
Benzene	71-43-2	µg/100puffs	2.0	ND	
1,3-Butadiene	106-99-0	µg/100puffs	2.0	ND	
Isoprene	78-79-5	µg/100puffs	2.0	ND	

- ND = Not Detected (less than MDL)
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