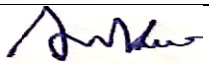
MPE Report

Report Reference No.....	AAEMT/RF/250131-01-06
***Applicant's name**.....:	Arista Networks, Inc
*Address.....	5453 Great America Parkway, Santa Clara, CA 95054 USA
***Manufacture's Name**.....	VVDN Technologies Private Limited
*Address.....	GIP, Plot No: CP07, Sector 8 IMT Manesar, Gurugram, Haryana 122050
Test item description:	
Sampling Details……...:	The below Test Item provided by applicant
*Product name.....:	Wireless Access Point
*Trademark .....:	**ARISTA**
*Model and/or type reference.....:	C-400
*Derivative Model No……:	N/A
Standards .....:	FCC 47CFR §2.1091
Testing Laboratory information:	
Testing Laboratory Name .....:	AA Electro Magnetic Test Laboratory Private Limited
Address .....:	Plot No 174, Udyog Vihar - Phase 4, Sector 18, Gurgaon, Haryana, India

Disclaimer: The * Information are provided by Manufacturer and it is verified through the Request form and Marking Label, AA Electro Magnetic Test Laboratory is not responsible for the above information accuracy. This device described above has been tested by AA Electro Magnetic Test Laboratory Private Limited, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of AA Electro Magnetic Test Laboratory Private Limited, this document can be altered or revised by AA Electro Magnetic Test Laboratory Private Limited, personal only, and shall be noted in the revision of the document.

Testing.....:	
Date of receipt of test item .....:	Jan. 31, 2025
Date (s) of performance of tests.....:	Jan. 31, 2025~ Apr. 03, 2025
Date of Issue .....:	Apr. 30, 2025
Test Result.....:	**Pass**
Declaration of Conformity:	**Declaration of conformity of the results is based as per the standard limits**
Prepared By (+ signature) Ankur Kumar:	
Reviewed & Approved by: (+ signature) Dr. Lenin Raja (Authorized Representative) (/ lenin83/)	

Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India
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Contents

1. General Information

1.1 General Description Of EUT

Manufacturer:	VVDN Technologies Private Limited
Manufacturer Address:	GIP, Plot No: CP07, Sector 8 IMT Manesar, Gurugram, Haryana 122050
EUT Name:	Wireless Access Point
Model No:	C-400
Serial Number:	E4D124F022BF
Derivative Model No:	N/A
Brand Name:	**ARISTA**
H/W No.:	Rev B1
S/W No.:	1.0.0.4
Power Supply Range:	EUT Input:12.0V DC,2.0A (Powered through Adapter) Input of Adapter :100~240VAC, 50-60 Hz, 0.7Amax, Output of Adapter:12.0VDC, 2.0A,24.0W
Battery:	N/A
Condition of Sample on receipt	Good / ~~Satisfactory / Fit for Testing~~
Opinions and Interpretations:	~~See the specific Note / Annexure if any in the whole /full report~~/NA

2. Equipment's List for All Test Items

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	Spectrum Analyser	R&S	FSP	-	2024/01/10	2026/01/10
2	Loop antenna	DA ZE Beijing	ZN30900C	18052	2023/09/15	202s6/09/15
3	Hi power horn antenna	DAZE Beijing	ZN30700	18012	2023/09/11	2026/09/10
4	MXA Signal Analyzer	KEYSIGHT	N9020A	MY53290443	2023/07/27	2025/07/27
5	Horn antenna	DAZE Beijing	ZN30703	18005	2023/09/11	2026/09/10
6	Pre-Amplifier	KELIANDA	LNA-0009295	-	2024/01/10	2026/01/10
7	Pre-Amplifier	HP	8447FOPTH64	-	2024/01/10	2026/01/10
8	Biconical Antenna	DAZE Beijing	ZN30505C	17038	2023/09/11	2026/09/10
9	EMI- Test RECEIVER	Rohde and Schwarz	ESIB26	509371	2023/06/11	2025/06/10
10	LISN	Kyoritsu	KNW-407	8-1789-5	2024/01/10	2026/01/10
11	Network – LISN	Schwarzbeck	NNBM8125	81251314	2024/01/10	2026/01/10
12	Network – LISN	Schwarzbeck	NNBM8125	81251315	2024/01/10	2026/01/10
13	PULSE LIMITER	Rohde and Schwarz	ESH3-Z2	100681	-	-
14	50Ω Coaxial Switch	DAIWA	1565157	-	-	-
15	50Ω Coaxial Switch	-	-	-	-	-
16	USB RF Power Sensor	DARE!!	RPR3006W	18I00043SNO02	2025/01/13	2026/01/12
17	USB RF Power Sensor	DARE!!	RPR3006W	18I00043SNO04	2025/01/13	2026/01/12
18	Signal Generator	KEYSIGHT	N5181A	512071	2024/01/10	2026/01/10
19	RF Vector Signal Generator	KEYSIGHT	N5182B	512094	2024/01/10	2026/01/10

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20	Spectrum analyzer	ROHDE & SCHWARZ	FSV40-N	101385	2023/04/28	2025/04/28
21	Radio Communication Tester	ROHDE & SCHWARZ	CMW 500	124589	2023/09/08	2025/09/08
22	Signal Generator	R&S	SMP 02	837017/004	2023/09/08	2025/09/07
23	DC Regulated Power Supply	Metravi	RPS-3005	669076	2023/12/12	2025/12/11
24	Climatic Chamber (Environmental Chamber)	SUNRISE SCIENTIFIC INSTRUMENTS	-	-	2024/11/06	2025/11/05
25	Attenuators	HP	8494B	1510A04625	2024/03/21	2026/03/21
26	Attenuators	AGILENT	8495B	MY42140429	2024/03/21	2026/03/21

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3. . FCC 47CFR §2.1091 REQUIREMENT

3.1 GENERALINFORMATION

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached. Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

3.2 LIMIT

The FCC MPE limits from 47 CFR §1.1310 are shown in the table below

Frequency Range [MHz]	Electric Field Strength [V/m]	Magnetic Field Strength [A/m]	Power Density [mW/cm^2]	Average Time [minutes]
(A) Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	*100	6
3.0 – 30	1842/f	4.89/f	*900/f^2	6
30 – 300	61.4	0.163	1.0	6
300 – 1500			f/300	6
1500 – 100000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 – 1.34	614	1.63	*100	30
1.34 – 30	824/f	2.19/f	*180/f^2	30
30 – 300	27.5	0.073	0.2	30
300 – 1500			f/1500	30
1500 – 100000			1.0	30

NOTE –

(1) f is the frequency in MHz.

(2) Provided that basic restrictions are met and adverse indirect effects can be excluded, field strength values can be exceeded. For the specific case of occupational exposures at frequencies up to 100 kHz, the derived electric fields can be increased by a factor of 2 under conditions in which adverse indirect effects from contact with electrically charged conductors can be excluded.

(3) For frequencies between 100 kHz and 10 GHz, the quantities Seq, E2 and H2 are averages over any 6 minutes.

(4) For frequencies exceeding 10 GHz, Seq, the quantities E2 and H2 are averages over any 68/f 1.05 minutes (f in GHz).

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4. Result

Protocol	Frequency (MHz)	Output power (dBm)	Output power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density(S) (mW/cm^2)	Result
2.4G WLAN	2452	27.16	519.9959	0.5833	1	Pass
5G WLAN	5580	20.05	101.1579	0.1428	1	Pass
WLAN 6E	6715	20.70	117.4897	0.1659	1	Pass
Note: C-400 is a tri band device, simultaneous transmission ,therefore PD summed less than the limit						

Gain (5GHz & 6GHz) = 8.51dBi (Numeric = 7.096), 2.4GHz Wi-Fi=7.51dBi (Numeric = 5.636)

& rr = 3.14

1. Minimum separation distance d= 20cm
2. P=Maximum RF Output Power
3. G=Product Gain
4. Power Density (PD) = (P*G)/ (4∏*sqr (d))

Note:- The device complies with the RF exposure requirements with minimum RF safety distance of 20cm for General Population / Uncontrolled Exposure

****End of Report****

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