

	RF Exposure Report		
Report No.:	SA181115C24A		
FCC ID:	2ARXKVHE09		
Test Model:	VHE09		
Series Model:	VHE09XXX (X=A-Z, 0-9, blank or "-")		
Received Date:	Mar. 30, 2019		
Test Date:	Mar. 30 ~ Apr. 23, 2019		
Issued Date:	Aug. 26, 2019		
Applicant:	Veea Inc		
	164 E 83rd Street, New York NY, 10028, USA		
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch		
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.		
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)		
FCC Registration / Designation Number:	788550 / TW0003		
	TAF Testing Laboratory 2021		

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specification, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.



Table of Contents

Rele	ase Control Record	3
1	Certificate of Conformity	4
2	RF Exposure	5
2.2	Limits for Maximum Permissible Exposure (MPE) MPE Calculation Formula Classification	5
3	Calculation Result of Maximum Conducted Power	6



Release Control Record					
Issue No.	Description			Date Issued	
Issue No. SA181115C24A	Description Original release.			Date Issued Aug. 26, 2019	
Report No.: SA1811150	24A	Page No. 3 / 6		Report Format Version: 6.1.1	



1 Certificate of Co	Certificate of Conformity					
Product:	veeaHub					
Brand:	veea Hub					
Test Model:	VHE09					
Series Model:	VHE09XXX (X=A-Z, 0-9, blank or "-")					
Sample Status:	Engineering sample					
Applicant:	Veea Inc					
Test Date:	Mar. 30 ~ Apr. 23, 2019					
Standards:	FCC Part 2 (Section 2.1091)					
	KDB 447498 D01 General RF Exposure Guidance v06					
	IEEE C95.3 -2002					
The above equipmer	nt has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd.,					
Taoyuan Branch, an	d found compliance with the requirement of the above standards. The test record, data					

evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :

Polly Chien / Specialist , Date: Aug. 26, 2019

Approved by :

Bruce Chen, Date: Aug. 26, 2019

Bruce Chen / Senior Project Engineer



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)			
Limits For General Population / Uncontrolled Exposure							
0.3-1.34	614	1.63	(100)*	30			
1.34-30	824/f	2.19/f	(180/f²)*	30			
30-300	27.5	0.073	0.2	30			
300-1500			f/1500	30			
1500-100,000			1.0	30			

f = Frequency in MHz; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

 $\begin{array}{l} \mathsf{Pd} = (\mathsf{Pout}^*\mathsf{G}) \ / \ (4^*\mathsf{pi}^*\mathsf{r}^2) \\ \mathsf{where} \\ \mathsf{Pd} = \mathsf{power} \ \mathsf{density} \ \mathsf{in} \ \mathsf{mW}/\mathsf{cm}^2 \\ \mathsf{Pout} = \mathsf{output} \ \mathsf{power} \ \mathsf{to} \ \mathsf{antenna} \ \mathsf{in} \ \mathsf{mW} \\ \mathsf{G} = \mathsf{gain} \ \mathsf{of} \ \mathsf{antenna} \ \mathsf{in} \ \mathsf{linear} \ \mathsf{scale} \\ \mathsf{pi} = 3.1416 \\ \mathsf{r} = \mathsf{distance} \ \mathsf{between} \ \mathsf{observation} \ \mathsf{point} \ \mathsf{and} \ \mathsf{center} \ \mathsf{of} \ \mathsf{the} \ \mathsf{radiator} \ \mathsf{in} \ \mathsf{cm} \end{array}$

2.3 Classification

The antenna of this product, under normal use condition, is at least 28cm away from the body of the user. So, this device is classified as Mobile Device.



Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN 2412~2462	27.33	6.21	28	0.229	1
WLAN 5180~5240	29.17	8.12	28	0.544	1
WLAN 5260~5320	23.73	8.12	28	0.155	1
WLAN 5500~5720	23.84	8.12	28	0.159	1
WLAN 5745~5825	29.99	8.12	28	0.657	1
Zigbee 2405~2475	17.05	3.2	28	0.011	1
BT LE 2402~2480	-4.65	6.0	28	0.000	1
BT EDR 2402~2480	3.70	6.0	28	0.001	1

3 Calculation Result of Maximum Conducted Power

For WLAN 2.4GHz Band: Directional gain = 3.2dBi + $10\log(2) = 6.21$ dBi For WLAN 5.0GHz Band: Directional gain = 2.1dBi + $10\log(4) = 8.12$ dBi

WWAN module (Model: EC25-A, FCC ID: 2ATM8EC25A)

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WCDMA Bnad II	23.5	1.5	28	0.032	1
WCDMA Bnad IV	23.5	1.5	28	0.032	0.55
WCDMA Bnad V	23.5	-1.6	28	0.016	1
LTE Band II	24	1.5	28	0.036	1
LTE Band IV	24	1.5	28	0.036	1
LTE Band XII	24	-1.6	28	0.018	0.47

Note:

- 1. The above Max Power is Tune-up Power which client declaried.
- 2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Conclusion:

The formula of calculated the MPE is: CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1 CPD = Calculation power density LPD = Limit of power density

WLAN 2.4G + WLAN 5G + Zigbee + Bluetooth + WWAN = 0.934

Therefore the maximum calculations of above situations are less than the "1" limit.

---END----