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RF Exposure Evaluation Report

Report No.: CQASZ20201101312E-02

Shenzhen VanTop Technology & Innovation Co., Ltd. Applicant:

502, 5th Flr. BLDG 4, MinQi Technology Park, No. 65 Lishan Road, Taoyuan **Address of Applicant:**

Street, Nanshan District, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: Smart Watch

VG3, VG3 Lite, VG3 Pro, VG3 GT, VG3 GS, VG4, VG5, DG3, DG4, DG5, DG6 Model No.:

VG3 Test Model No.:

VIRMEE Brand Name:

FCC ID: 2AQ3A-VG3

Standards: 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2020-11-03

Date of Test: 2020-11-03 to 2020-11-13

Date of Issue: 2020-11-13

Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above

Martin Lee) Tested By:

Reviewed By:

Sheek Luo)

Approved By:

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



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1 Version

Revision History Of Report

Report No.	Version Description		Issue Date
CQASZ20201101312E-02	Rev.01	Initial report	2020-11-13



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3 General Information

3.1 Client Information

Applicant:	Shenzhen VanTop Technology & Innovation Co., Ltd.		
Address of Applicant:	502, 5th Flr. BLDG 4, MinQi Technology Park, No. 65 Lishan Road, Taoyuan Street, Nanshan District, Shenzhen, China		
Manufacturer:	Shenzhen VanTop Technology & Innovation Co., Ltd.		
Address of Manufacturer:	502, 5th Flr. BLDG 4, MinQi Technology Park, No. 65 Lishan Road, Taoyuan Street, Nanshan District, Shenzhen, China		
Factory:	Shenzhen IWOWN Technology Co., Ltd. Guangming Branch		
Address of Factory:	6A, Building H, Innovative Yungu Plant,No. 48 Paotai Road, Lisonglang Community First Industrial Zone, Gongming Street, Guangming District, Shenzhen City		

3.2 General Description of EUT

Product Name:	Smart Watch
Model No.:	VG3, VG3 Lite, VG3 Pro, VG3 GT, VG3 GS, VG4, VG5, DG3, DG4, DG5, DG6
Test Model No.:	VG3
Trade Mark:	VIRMEE
Hardware Version:	V1.1
Software Version:	17.0.12.12
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.0
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Test Software of EUT:	WCN Combo Tool #1 (manufacturer declare)
Antenna Type:	Ceramic antenna
Antenna Gain:	2.0dBi
EUT Power Supply:	lithium battery: DC3.8V, 250mAh, Charge by DC5V

Note:

Model No.: VG3, VG3 Lite, VG3 Pro, VG3 GT, VG3 GS, VG4, VG5, DG3, DG4, DG5, DG6

Only the model VG3 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being appearance design.



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4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion



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4.1.3 EUT RF Exposure

1) For BLE

Measurement Data

GFSK mode					
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	-0.68	-1.5±1	-0.5	0.891	
Middle(2440MHz)	-0.47	-1.0±1	0	1.000	
Highest(2480MHz)	-0.48	-1.0±1	0	1.000	

Worst case: GFSK						
Channel	Maximum Peak Conducted	d Tune up tolerance	Maximum tune- up Power		Calculated	Exclusion
	Output Power (dBm)		(dBm)	(mW)	value	threshold
Lowest (2402MHz)	-0.68	-1.5±1	-0.5	0.891	0.276	
Middle (2440MHz)	-0.47	-1.0±1	0	1.000	0.312	3.0
Highest (2480MHz)	-0.48	-1.0±1	0	1.000	0.315	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20201101312E-01