

RF Exposure Report

Report No.: SA171129E01

FCC ID: 2AN3BVS93G001

Test Model: VS-93G001

Received Date: Nov. 29, 2017

Test Date: Dec. 08, 2017

Issued Date: Dec. 13, 2017

Applicant: CUBTEK INC.

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(R.O.C.)

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

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Release Control Record

Issue No.	Description	Date Issued
SA171129E01	Original release.	Dec. 13, 2017

1 Certificate of Conformity

Product: 77GHz Radar

Brand: CUBTEK

Test Model: VS-93G001

Sample Status: ENGINEERING SAMPLE

Applicant: CUBTEK INC.

Test Date: Dec. 08, 2017

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and 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 EMC characteristics under the conditions specified in this report.

Prepared by :

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Date:

Dec. 13, 2017

Mary Ko / Specialist

Approved by :

May Chen

Date:

Dec. 13, 2017

May Chen / Manager

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/f ²)*	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

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 25cm away from the body of the user.
So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Antenna Net Gain (dBi)	Antenna Type	Connector Type	Frequency range (GHz)
13.6	Printed Antenna	none	76 ~ 77

2.5 Calculation Result

Frequency (GHz)	Pout EIRP (dBm)	Pout EIRP (mW)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
76.47	38.90	7762.47	25	0.98835	1

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