

RF Exposure Report

Report No.: SABHLU-WTW-P22010749

FCC ID: WQJ-VP3300BT

Test Model: IDMR-BT93133PV2D

Series Model: IDMR-BT93133XXXXXX (refer to item 3.1 for more details)

Received Date: Jan. 21, 2022

Date of Evaluation: Mar. 14, 2022

Issued Date: Mar. 25, 2022

Applicant: ID TECH

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
SABHLU-WTW-P22010749	Original Release	Mar. 25, 2022

1 Certificate of Conformity

Product: ViVOpay VP3300BT

Brand: ID TECH

Test Model: IDMR-BT93133PV2D

Series Model: IDMR-BT93133XXXXXX (refer to item 3.1 for more details)

Sample Status: Engineering Sample

Applicant: ID TECH

Date of Evaluation: Mar. 14, 2022

Standards: FCC Part 2 (Section 2.1091)

References Test Guidance : KDB 447498 D01 General RF Exposure Guidance v06

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 RF characteristics under the conditions specified in this report.

Prepared by : Lena Wang, **Date:** Mar. 25, 2022
Lena Wang / Specialist

Approved by : Jeremy Lin, **Date:** Mar. 25, 2022
Jeremy Lin / 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/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 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Calculation Result of Maximum Conducted Power

Frequency (MHz)	Max. Field Strength (dBuV/m)@3m	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE)	1-g SAR test exclusion thresholds
13.56	75.67	0.01107	5	0.01107	1107.433774

Note:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- Calculate SAR test exclusion thresholds from condition "3" formulas.
- Field Strength (dBuV/m@3m) = Field Strength (dBuV/m@30m) + 40*log(30/3).
- Max Power (dBm) = Field Strength of Fundamental (dBuV/m@3m) – 95.23,
Max Power (mW) = $10^{(\text{Max power (dBm)}/10)}$
- The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible
- EUT model definition list.

Model definition		Character	Description
1st X	MSR Encryption	blank	TDES
	Method	A	AES
2nd X	MSR Data format	blank	Enhanced
		O	Original
3rd X	Encryption	blank	N/A
		P	Encrypts all transaction methods (MSR, EMV, Ctls)
4th X	Enclosure color	blank	Black
		W	White
		C	Custom Color other than Black and White
5th X	BT CHIP	V	Avnet Chip set
6th X	Firmware version on the AS3911 Rev A Chip	blank	NEO 1.01
		2	NEO 1.10
7th X	Demo Key	blank	N/A
		D	Demo Key injected

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