



SAR exemption evaluation

Applicant	ID TECH
FCC ID	WQJ-KIOSKIIIB
Product	ViVOpay Kiosk III
Brand	ViVOpay
Model	ViVOpay Kiosk III
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Approved by: Jiangpeng Lan

Reviewed by: Kai Xu

TA Technology (Shanghai) Co., Ltd.

No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000

Conducted Power

Carrier frequency (MHz)	worst-case peak radiated emission (dB μ V/m)
13.558	81.10

The worst-case peak radiated emission for the EUT is 81.10 dB μ V/m at 3m in the frequency 13.558MHz

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = -14.1 \text{ dBm}$$

$$\text{ERP} = \text{EIRP} - 2.15 = -16.25 \text{ dBm, Gain}=0\text{dBi}$$

So

$$\text{Maximum Output Power}=-16.25 \text{ dBm}$$

Test result

Per KDB 447498 D01, the 1-g SAR test exclusion thresholds for frequencies below 100 MHz and test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \cdot 0.5 \leq 3.0 \text{ for 1-g SAR}$$

where

- The test separation distance at 50mm
- The test frequency at 100 MHz

Frequency (MHz)	Distance (mm)	Maximum Output Power (dBm)	Frequency (MHz)	Ratio	Evaluation
13.558	50	-16.25	13.558	0.000075	No