



## SAR exemption evaluation

**Applicant** ID TECH  
**FCC ID** WQJ-KIISREDB  
**Product** ViVOpay Kiosk III SRED  
**Brand** ViVOpay  
**Model** ViVOpay Kiosk III SRED  
**Report No.** R1811A0498-S1  
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**Conducted Power**

| Carrier frequency<br>(MHz) | worst-case peak radiated emission<br>(dB $\mu$ V/m) |
|----------------------------|---|
| 13.558                     | 80.318  |

The worst-case peak radiated emission for the EUT is 80.318 dB $\mu$ V/m at 3m in the frequency 13.558MHz

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = -14.882 \text{ dBm}$$

$$\text{ERP} = \text{EIRP} - 2.15 = -17.032 \text{ dBm, Gain}=0\text{dBi}$$

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  $\leq 50$  mm are determined by:

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

where

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

| Frequency (MHz) | Distance (mm) | MAX Power (dBm) | Ratio    | Evaluation |
|-----------------|---------------|-----------------|----------|------------|
| 13.558          | 50            | -17.032         | 0.000063 | No         |