Contactless interface (13.56MHz Radio port)

V0.1

The Following device was evaluated against the limits for general population uncontrolled exposure specified in FCC 2.1093 according to SAR evaluation exclusion requirements specified in FCC regulations as listed KDB 447498.

Manufacturer	Payter B.V.
Identification	P68.x.xx (all models)

4.3 GENERAL SAR test exclusion guidance

Device operating below 100MHz and <= 50mm SAR Test Exclusion Threshold calculations

A) 3 for 1-g SAR 474.34 mW 7.5 for 10-g SAR 1185.85 mW

B) 474.34 mW for 1-g SAR 1185.85 mW for 10-g SAR

C) $P_{\text{max}} =$ **442,97** mW 1-g SAR @13,56 MHz $P_{\text{max}} =$ 1107,43 mW 10-g SAR

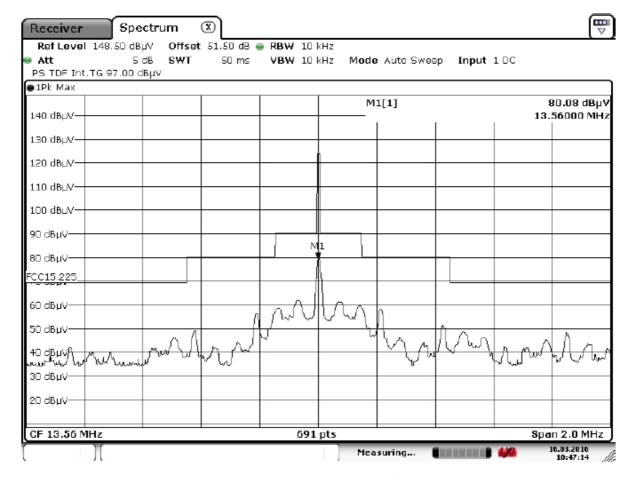
 $P_{max} = \left\{ \left[\left(\frac{NT}{\sqrt{F_{GHz}}} \right) * TSD \right] + \left[(TSD - 50) * \left(\frac{F_{MHz}}{150} \right) \right] \right\} * \left(1 + \log \left(\frac{100}{F_{MHz}} \right) \right) * \frac{1}{2}$

 P_{max} = Maximum Power of Channel(mW)

NT = Numeric Threshold (3.0 - 1-g SAR, 7.5 - 10g SAR)

TSD = Minimum Test Separation Distance, minimum value is 50(mm)

 F_{GHz} = Frequency in GHz F_{MHz} = Frequency in MHz



The Peak Field Strength(E) measured@3m distance (80.1dBµV/m)

The calculated output power $30.7\mu W(eirp)$ is less than the SAR Exclusion Threshold of 442mW, at 50mm test separation distance, for general population and uncontrolled exposure. Therefore, standalone SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.