



RF Exposure Compliance Report

Model : 51381CR

FCC ID : 2AEBL-51381CR

Product Type : Display module with ID card reader

Applicant : ABB Genway Xiamen Electrical Equipment Co.,Ltd

Production Facility : ABB Genway Xiamen Electrical Equipment Co.,Ltd

Address : NO.7 Fangshan South Road,Torch High Technology Development Zone (Xiang An) Industrial Zone,Xiamen S.E.Z,Fujian Province,P.R.China

RF Exposure Compliance Requirement

According to ANSI C63.10:2013 clause 12.7.3 d):

$$\text{EIRP} = (E \times d)^2 / 30$$

EIRP is power in W
E is the electric field strength in V/m
d is the measurement distance in meters (m)
when d is 3m, $\text{EIRP}[\text{dBm}] = \text{E}[\text{dB}\mu\text{V/m}] - 95.2$

maximum field strength of 125KHz is 55.11dB μ V/m at 3m,
 $\text{EIRP}[\text{dBm}] = 55.11[\text{dB}\mu\text{V/m}] - 95.2 = -40.09\text{dBm}$
 $\text{EIRP} = 0.0001\text{mW}$

SAR exclusion justification in accordance to KDB 447498 D01 Section 4.3.1:

$$\begin{aligned} & [(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f}(\text{GHz})] \leq 3.0 \\ & [(0.0001, \text{mW}) / (5, \text{mm})] \cdot [\sqrt{0.000125}(\text{GHz})] \leq 3.0 \\ & 0.0000001 \leq 3.0 \end{aligned}$$

Therefore the device meets the FCC SAR exemption requirements

--TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch--

Reviewed by:

Tony Liu / Project Reviewer
Date: 2019-01-12

Prepared by:

Kevin Ouyang / Project Handler
Date: 2019-01-12