

RF Exposure Compliance Report

Model : M2700TP-
FCC ID : 2AEBL-M2700TP
Product Type : Standalone Transponder module
Applicant : ABB Xiamen Smart Technology Co., Ltd.
Production Facility : ABB Xiamen Smart Technology 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):
 $EIRP = (E \times d)^2 / 30$

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, $EIRP[dBm] = E[dB\mu V/m] - 95.2$

maximum field strength of 13.56MHz is 49.3dB μ V/m at 3m,
 $EIRP[dBm] = 49.3[dB\mu V/m] - 95.2 = -45.9dBm$
 $EIRP = 2.57 \times 10^{-5}mW$

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

$EIRP \text{ power} = 0.0000257mW$
 $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(GHz)}] \leq 3.0$
 $[(0.0000257, mW) / (5, mm)] \cdot [\sqrt{0.01356(GHz)}] \leq 3.0$
 $5.96 \times 10^{-7} \leq 3.0$

Therefore the device meets the FCC SAR exemption requirements

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

Reviewed by:



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Date: 2020-05-21

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Date: 2020-05-21