TÜVRheinland®

Produkte
Products

RF Exposure Statement: JP24PHIU 001A

Client:	**Kyocera Mita Corporation** 2-28, 1-Chome, Tamatsukuri, Chuo-ku, Osaka 540-5858 Japan
Test item:	**RFID Module**
Identification:	**C2GA1485**

FCC Requirement

According to FCC 2.1091, mobile equipment must comply with the following applicable limit for maximum permissible exposure (MPE) specified in FCC 1.1310:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density S (mW/cm^2)	Averaging time (minutes)
(ii) Limits for General Population/Uncontrolled Exposure				
1.34-30	824/f	2.19/f	*($180/f^2$)	<30

ISED Requirement

According to RSS-102 (Issue 6), clause 6.6, no routine RF exposure evaluation is required if the transmitter has a minimum separation distance to the user greater than 20cm and has an output power (e.i.r.p.) below the following threshold:

Transmitter Frequency Range	RF Exp. Evaluation Threshold [W]
Below 20MHz	1W

Measurement Result

The maximum measured transmitter power is given in the following table:

Frequency [MHz]	E-Field [dBuV/m]	Distance from Human body R [cm]	S [mW/cm^2]	S Limit [mW/cm^2]
13.56	38.1	20	4.E-10	0.98

Note:

The power density S in mW/cm^2 is calculated according to the Friis formula: $S = (P_{out} \cdot G) / (4\pi \cdot D^2)$, where
P_{out} = antenna conducted output power in mW,
G = antenna gain in linear scale,
D = distance between observation point and radiating structure in cm (here: 20cm).

Conclusion

The device complies with the FCC and ISED RF exposure requirements since the maximum transmitter power density is below the FCC limit and the e.i.r.p. output power is below the ISED RF exposure evaluation exemption threshold.

Refer to test report JP24PHIU 001 for more details.