

To: (UL A-Pex.) Kanako Sanda, (UL A-Pex) Naoki Sakamoto
From: "Timothy R. Johnson" <tjohnson@AmericanTCB.com>
Subject: Review of Honda Lock Mfg. Co. Ltd., FCC ID: MLBHLIK-1T after recent uploads
Cc: (ATCB) David Waitt

Kanako/Naoki,

While trying to finalize after sending my last email a few minutes ago, I did notice the duty cycle shown in the new report was 41% but does not appear to utilize worse case factors given in the theory. Please note that the operational description cites "33%-67% (depend on transmit code)"

Please note that the different between these two factors are

$20 \log 0.41 = -7.7 \text{ dB}$

$20 \log 0.67 = -3.5 \text{ dB}$

Given the delta between these is about 4.2 dB, there would appear to be a concern with 2510 & 3138 assuming a worse case factor.

Data at 2824 MHz would meet using 3.5 dB correction so this frequency appears ok.

Is the information in the operational description correct? If so, then the data provided would be non-compliant using worse case factors. If not, then we need to correct the operational description. Please review and let me know if you have any further questions.

Sorry for the inconvenience, but my comments earlier assumed the duty factor provided in the report was worse case.

Tim

Kanako/Naoki,

Please see attached...I am finalizing review, however please take the attached into consideration.

Thanks,

Tim

Kanako/Naoki,

Attached are comments regarding review of this application. Please provide information as soon as possible.

Thank You,

Timothy R. Johnson
NARTE Certified EMC Engineer
No. EMC-002205-NE

email: tjohnson@AmericanTCB.com
alternate email: TRJ@adelphia.net