

Helen Zhao

Subject: FW: Hitachi America Ltd, FCC ID: ES8-HSS-MUR-300, Assessment NO.: AN06T5788, Notice#1



Test Setup Pix.pdf



HITACHFCCRev1
1.doc



ConfidentialREV1.d
oc



ATT833823.txt

From: Thomas Cokenias

Sent: Monday, May 22, 2006 5:18 PM

To: Helen Zhao

Subject: Re: Hitachi America Ltd, FCC ID: ES8-HSS-MUR-300, Assessment NO.: AN06T5788, Notice#1

Hi Helen,

Answers follow questions.

best regards

Tom

>

> -----Original Message-----

> Sent: Friday, May 19, 2006 3:44 PM

> Subject: Hitachi America Ltd, FCC ID: ES8-HSS-MUR-300, Assessment NO.: AN06T5788, Notice#1

>

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> Question #1: Page 20 of the user manual indicates the max. transmit power is 28.4dBm while max antenna gain is 8dBi, but based on antenna gain 8dBm and FCC15.247 power limit, the max. output power can not exceed 28dBm, please update user manual.

ANS1 Corrections made which include additional wording to Note 1 about 0.6 dB loss in cable supplied and correct maximum output power of 28.03 dBm, I rounded it to 28 dBm in the user manual. Maximum eirp = 28.03dBm + 8.5 dBi - 0.6dB CL = 35.93 dBm eirp, just below 36 dBm eirp limit. Revised user manual attached with changes in red type.

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> Question #2: Though page 31 mentions "20 cm (8 inches) from any Stationary portal reader antenna for prolonged periods of time." Please add the following statement under section 9.1.1 RF Radiation Exposure Statement:

>

> To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

ANS 2 The desired wording has been added to user manual, in red type.

>

> Question #3: The confidentiality letter requests block diagram and operational description to be held confidential, however the same content can be found in user manual, which will be viewed by public. Please either modify confidentiality letter, or modify the user manual.

>

ANS3 Revised letter attached with reference to block diagram removed.

- > Question #4: Please update the test report in the following areas:
- >
- > a) Page 5: MaxRad antenna gain and Hyperlink antenna gain do not agree with antenna spec provided in the filling. Please swap.

Ans4a Done. Revised report attached

- > b) Page 14: there should be 81 channels, based on 2460-2420 = 40MHz, channel separation: 0.5MHz.

Ans4b Revised report has correction.

- > c) Page 16: though it does not affect pass/fail, the correct duration should be $0.4 \times 81 = 32.4$ s, not 30s. You may need to calculate total ON time within 32.4s.

ANS4c Corrected in revised report

- > d) Section 5.2.2. Please explain the meaning of the cells in grey.
- > Does it mean too low to detect signal?

ANS4d Cells in gray indicate no signal detected above noise floor. Report data sheet headers revised to explain this.

- > Question #5: Please submit test setup photos. Please show both MaxRad antenna and Hyperlink antenna.

ANS 5 Test setup photos attached, including radiated emissions test for each antenna