

Helen Zhao

Subject: FW: Hitachi Keiyo Engineering and Systems, Ltd, FCC ID: Q9Z-PC5NR3-J2, Assessment NO.: AN04T4237, Notice#1

From: Claire Hoque
Sent: Friday, October 08, 2004 9:41 AM
To: Helen Zhao
Subject: RE: Hitachi Keiyo Engineering and Systems, Ltd, FCC ID: Q9Z-PC5NR3-J2, Assessment NO.: AN04T4237, Notice#1

Hi Helen,

Here are the answers.

Question #1: The Theory of Operation indicated that the mini-PCI card has 802.11a/b/g capability. But either EMC test report or SAR report does not include 802.11a testing data. Please explain. If 802.11a portion of radio is not disabled via firmware but by removing 802.11a related components, then all EMC / SAR tests have to be redone. If it is firmware disabled by the applicant at the factory, then they have to ensure the end user has no access to enable / disable 802.11a function.

<answer>Client Uses the Firmware/Utility to disable the 802.11a portion.

Client also indicates existing antenna does not support 802.11a.

Question #2: Please provide Functional Block Diagram for entire Tablet PC since the EUT is Tablet PC with 802.11 b/g mini-PCI card, as shown on the test report.

<answer>Here is the Functional Block Diagram.



Functional Block
Diagram .pdf

Question #3: The Specification on the user manual indicated the device has an interface of an IEEE 802.11b compliant wireless LAN card, which is not the case, please explain.

<answer>User manual has been revised from 802.11b to 802.11g.



Revised_User
Manual.pdf

Question #4: There are two sets of antenna specification in the filing. One is for Hitachi SAM-F24016A1TL with max. gain 1.6 dBi, the other is for NR3_Horizontal with max. gain -0.03dBi. But page 30 of EMC test report indicated that the max. antenna gain is 0.9 dBi, page 5 of SAR report indicated that the max. antenna gain is -0.4 dBi. Please explain.

<answer>Both reports have been revised.



04U2959 FCC 04U2959-2 SAR
EPORT(revised).pd. Report(revised)....

Question #5: The test plot on page 51 of EMC test report is not a Low CH Bandedge, as suggested. Actually this is a High CH bandedge plot. Please correct.

<answer>pls see revised report, same as Q4.

Question #6: Please remove MPE estimate in EMC test report, this device is classified as portable device and MPE estimate does not apply.

<answer>pls see revised report, same as Q4.

Question #7: Page 7 of SAR plots does not show the hot spot, please submit revised SAR plots.

<answer>Page 7 only shows z-scanned location for this measurement and the hot spot show in page 6.

Question #8: The max SAR value listed on page 3 of the SAR report is incorrect. Please correct.

<answer>It's a typo, SAR Report is revised.

Question #9: The SAR report indicated the EUT is the 802.11b/g mini-PCI card, not the tablet PC, which contradicts to the rest of documents in the filing.

<answer>EUT description is changed, pls see revised SAR Report.

Thanks,

Claire