MET Laboratories, Inc. *Safety Certification - EMI - Telecom Environmental Simulation*
3162 BELICK STREET • SANTA CLARA, CA 95054 • PHONE (408) 748-3585 • FAX (510) 489-6372

June 27, 2008

MET Laboratories, Inc.
TCB Reviewer
914 West Patapsco Ave,
Baltimore, MD 21230

RE: RT Response 80848 CyberData, FCC ID: WBA-010835-010914

Dear Chris,

Please see our response below:

- Please confirm which antenna was used with this transmitter (response mentions both integral and external antennas).

Yes, CyberData is only using the internal antenna which was the configuration for all testing that was performed. The jumper connecting the internal antenna is clearly visible on the Front_Internal picture previously supplied with internal/external photos.

- Also, while you have supplied a Class A Digital Device report, the application does not show compliance with FCC 15.207 AC Conducted Emissions for Intentional Radiators.

Please see revised report for 15.207 data.

- The revised report documents the use of the 10kHz RBW, but still mentions the use of a 3kHz VBW (smaller than the VBW). Did you use a larger VBW?

This was a typo. Please see revised report.

If you need any additional information, please let us know.

Thanks!

Anderson Soungpanya
Wireless Engineer
MET Laboratories, Inc.
408-207-4780
asoungpanya@metlabs.com

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RE: RT Response 80848 CyberData, FCC ID: WBA-010835-010914

Dear Chris,

Please see our response below:

1. The test report states that a 1kHz RBW is used in measuring the fundamental emissions in the 13.553 – 13.567 MHz band (see report section 3.2). ANSI C63.4:2003 requires a minimum BW of 10 kHz. Please provide measurement data of the fundamental field-strength using a minimum 10kHz RBW.

The fundamental field-strength measurement used a minimum of 10kHz. The report section was a typo and has been corrected, please see revised report.

2. The Frequency Stability section of the report states a limit of 1.356 MHz (which is 10% of fundamental), where the requirement is 0.01% of the fundamental, or 0.01356MHz. The data appears to be compliant with the correct limit, but please update the report and confirm compliance with the correct limit.

Report has been updated and is compliant. Please see revised report.

3. Please confirm that the loop antenna was rotated about its vertical and horizontal axes during the radiated emissions test below 30MHz.

Confirmed. Please see revised report with additional photographs showing the loop antenna.

4. The FCC Rules require that devices that are powered either directly or indirectly from the AC Mains shall be tested for AC Conducted Emissions. This device can be powered indirectly from either a computer of the -48VDC power brick. Please submit AC Conducted emissions measurement data.

Please see report number EMCS80848-FCC Rev1.pdf for Unintentional data.

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5. The schematic diagram is incomplete. Please ensure that the entire RF Schematic is provided, including the integral antenna.

See file Antenna Compliance Statement.pdf & attached response from customer.

If you need any additional information, please let us know.

Regards,

Anderson Soungpanya
Wireless Engineer
MET Laboratories, Inc.
408-207-4780
asoungpanya@metlabs.com

Jennifer Sanchez

From: Bibek Regmi [Bibek.Regmi@skyetek.com]
Sent: Thursday, June 26, 2008 2:00 PM
To: Jennifer Sanchez
Cc: Angela Kekovski; Jenn Warnell
Subject: RE: 80848 Cyberdata - FCC TCB Request for Confidential Documents
Attachments: Antenna Compliance Statement.pdf

Hi Jennifer,

Attached is the SkyeTek antenna compliance statement and below is a detailed image of the M1 antenna. The picture shows the outer trace along the bottom side which is the loop part of the antenna. The components are detailed in the schematic I've already provided.

If you need more clarification please let me know and I can provide that.

I'm not sure if Cyber Data are using the internal antenna or if they have designed an external antenna.

You can easily tell by looking at the antenna pins of the M1. If INT and ANT are shorted, they are using the internal antenna.

If they are using an external antenna then you'll need to ask them to provide any information you may need.

Please let us know if you have further questions.

Best regards,
Bibek
SkyeTek, Inc.