From: Mike Kuo
Sent: Friday, January 16, 2009 6:28 PM
To: 'Joe Hsieh'
Cc: Lucy Tsai
Subject: RE: LIGHTSPEED INTERNATIONAL CO., FCC ID: NGJGPRS-100S, Assessment NO.: AN09T8758, Notice#1

Hi Joe:

I have no more question. However, I need to verify the modification implementation on the production sample. I will issue the grant tonight with post-market surveillance Request. Once you received the letter, please provide the production sample within 30 days.

Best Regards

Mike Kuo
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-----Original Message-----
From: Joe Hsieh [mailto:hsieh@etc.org.tw]
Sent: Wednesday, January 14, 2009 1:18 AM
To: Mike Kuo
Cc: Mike Kuo; Lucy Tsai
Subject: Re: LIGHTSPEED INTERNATIONAL CO., FCC ID: NGJGPRS-100S, Assessment NO.: AN09T8758, Notice#1

Dear Mike,

I re-check following question:

Re-Q#1: Attached please find the schematics of the radio module portion.
Re-Q#2: Attached please find the declaration letter that mentions the modification will be implemented into the production line.
Re-Q#3: Attached please find the declaration letter that mentions the screw will not be accessible and rotated by the end user.
Re-Q#4: Attached please find the revised FCC ID label format.
Re-Q#5: The engineer has confirm again the test and result of the output power. The result is the same.
Re-Q#6: The ERP/EIRP result is basic on the device (include the modification). The modification has confirmed by the applicant.
Re-Q#7: The "hyper terminal program" is used to operate the device only. We use "R&S CMU200" equipment to control the test sample at max. power.
Re-Q#8: The output power is setting to the highest output power at SAR testing. The low result is according to the modification of the device.
Re-Q#9: Attached please find the new SAR report. The crest factor has revised.
Re-Q#10: The modification has changed the radiated emission of the device.

Any questions please feel free to contact with me. Thanks.

Best regards,
Joe

----- Original Message -----
From: <mike.kuo@ccsemc.com>
To: <Hsieh@etc.org.tw>
Cc: <mike.kuo@ccsemc.com>; <lucy.tsai@ccsemc.com>
Sent: Thursday, January 08, 2009 7:40 AM
Subject: LIGHTSPEED INTERNATIONAL CO., FCC ID: NGJGPRS-100S, Assessment NO.: AN09T8758, Notice#1

> Hi Joe:
>
> Administrative Portion:
>
> Question #1: Schematic Diagram provided only covers digital portion of
> PCMCIA card. Please provide radio module portion of schematic diagram.
>
> Question #2: As indicated in the internal photos, copper tape /
> modification has been made at the antenna portion. By looking at the
> copper tape placement, it is questionable how such modification is
> capable of implementing on the product unit and maintain the radio
> performance as tested on the pre-production sample. Please provide a
> modification report signed by the applicant to state that
> modifications as documented in this filing will be implemented in the
> final production units under this FCC ID number.
>
> Question #3: As indicated in the internal photos, a screw is used to
> fix the antenna orientation so the antenna is capable of various orientation.
> Please submit a statement signed by the applicant that the screw will
> not be accessible by the end user and the antenna will not be able
> rotate during normal operation.
>
> Question #4: Based upon proposed FCC ID label format, only FCC ID
> number is listed on the label. However, PCMCIA card is also
> classified as PC peripheral which subject to either FCC DoC procedure
> or certification by TCB. If FCC DoC procedure is desired, then FCC
> DoC logo , Trade name and model name must be included in the FCC label
> format. If TCB certification is desired, then please file a
> separation TCB application for JBP (PC
> peripheral) device category.
>
> EMC portion:
>
> Question #5: This PCMICA card is capable of GSM/GPRS Class 10. By
> comparing the peak and average output power on page 10, there are 8-
> 10 dB differences between peak and average output power which are not
> consistence with GSM specification. Please verify the peak and output
> power measurement again.
>
> Question #6: Section 4.4 ERP/EIRP measurement: Please explain the low
> EIRP power for 1900 MHz band. Based upon the RF conducted output
> power, the EIRP output power is not reasonable. Please note: ERP/EIRP
> output power will be listed on the FCC grant for this PCMCIA card with
> integral antenna.
>

> Question #7: As indicated in the test report, a hyper terminal program
> is loaded in the laptop computer. Please provide detail information
> on the capabilities and features of this program. For example, how
> GSM/GPRS modulation and power class are controlled by the program.
>
> SAR Portion:
>
> Question #8: By reviewing the SAR plots, the reference value for 850 /
> 1900 MHz is too low which means the output power is not set to the
> highest output power.
>
> Question #9: Based upon the EMC test report, GRPS Class 10 has higher
> average output power thus GPRS Class 10 mode of operation shall be
> used for SAR measurement. Crest factor of 1:4 shall be used.
>
> Question #10: The SAR measurement as documented in the SAR report is
> too low. Typically, PCS band will have higher SAR value than cellular band.
> Please review your SAR measurement procedure and device mode of
> operation in term of generating the max. output power and redo the SAR measurement.
>
> Best Regards
>
> Mike Kuo
>
> The items indicated above must be submitted before processing can
> continue on the above referenced application. Failure to provide the
> requested information within 30 days of the original e-mail date may
> result in application dismissal and forfeiture of the filing fee.
> Also, please note that partial responses increase processing time and
> should not be submitted. Any questions about the content of this
> correspondence should be directed to the e-mail address listed below the name of the sender.
>

Tracking:

Recipient	Delivery
'Joe Hsieh'	
Lucy Tsai	Delivered: 1/16/2009 6:28 PM