

Chris Harvey

From: Lucy Tsai [lucy.tsai@ccsemc.com]
Sent: Tuesday, February 05, 2008 2:49 AM
To: Chris Harvey
Cc: Mike Kuo
Subject: FW: Fw: KINGWAVE TECHNOLOGY CO., LTD., FCC ID: TJI-KW5405, Assessment NO.: AN07T7236, Notice#1

Attachments: peak.jpg; Avg.jpg; Exhibit-G-Schematics_rev.pdf; Q4. Explanation.doc; Exhibit-I-Auth_Letter_rev.pdf; Exhibit-C-Test_Report_rev.pdf; Exhibit-K-O_D_rev.pdf



peak.jpg (633 KB) Avg.jpg (643 KB) Exhibit-G-Schematic
s_rev.pdf (...) Q4. Explanation.doc (463 k... Exhibit-I-Auth_Lett
er_rev.pdf ... Exhibit-C-Test_Report_rev.pdf... Exhibit-K-O_D_rev.pdf (27 KB)

Hello

Chris,

Here are the response from ETC regarding Kingwave application.
Please have a check.

Best Regards,

Lucy

-----Original Message-----

From: Iris Lin [mailto:iris@etc.org.tw]
Sent: Monday, February 04, 2008 10:56 PM
To: Lucy Tsai
Cc: R00/□□□; R00/□□□
Subject: Fw: Fw: KINGWAVE TECHNOLOGY CO., LTD., FCC ID: TJI-KW5405, Assessment NO.: AN07T7236, Notice#1

Dear Lucy,

Ans#1: Frequency 5740-5860MHz is a nominal frequency and 5739.460-5866.367 MHz is a peak frequency. Due to this EUT is a wideband signal device, so the actual operation frequency will not be exactly located at central point as nominal frequency. Therefore, frequency 2739.460-5866.367 is the correct and actual peak frequency.

37.4dB to 37.6dB are the correction factor. We add an attenuator which is about 20dB during the testing of the main frequency in order to protect for our testing instrument. We are afraid our testing instrument will be broken because of the high frequency. Therefore, the factor will be higher than the normal factor because of the additional attenuator.

Ans#2: Please refer to the attached peak & average diagram.

Ans#3: Please refer to the updated schematic as attachment.

Ans#4: Please refer to the attached explanation as word file.

Ans#5: Please refer to the updated authority letter as attachment.

Ans#6: Please refer to the updated report as attachment.

Ans#7: Please refer to the updated operation description as attachment.

Ans#8: Yes, the EUT was pretested with different orientation and the worst case was final tested.

If you have any question, please let us know ASAP.

ELECTRONICS TESTING CENTER, TAIWAN
IRIS LIN (林宜仁)
TEL: 886-2-26023052 ext.10
FAX: 886-2-26010910

----- Original Message -----

From: "SS" <ssliou@etc.org.tw>
To: "R00/林宜仁" <iris@etc.org.tw>
Sent: Thursday, October 04, 2007 8:47 AM
Subject: Fw: KINGWAVE TECHNOLOGY CO., LTD., FCC ID: TJI-KW5405, Assessment
NO.: AN07T7236, Notice#1

>
> ----- Original Message -----
> From: <charvey-tcb@ccsemc.com>
> To: <ssliou@etc.org.tw>
> Cc: <charvey-tcb@ccsemc.com>
> Sent: Tuesday, October 02, 2007 8:19 PM
> Subject: KINGWAVE TECHNOLOGY CO., LTD., FCC ID: TJI-KW5405, Assessment
NO.:
> AN07T7236, Notice#1
>
>
> > Dear SS Liou,
> >
> > You are listed as the Technical Contact for the above referenced TCB
> application. The following item(s) need(s) to be resolved before the
review
> can be continued:
> >
> > 1. The specifications for this device state that it operates on 5740
> > MHz
> low channel and 5860 MHz high channel. The test data shows that this
> may actually operate at 5739.460 MHz and 5866.367 MHz. Please confirm
> that
this
> is the correct actual operating frequencies. Also, please explain the
37.4
> to 37.6 dB correction factor used on the fundamental emission
> measurements table.
> >
> > 2. The test report indicates that this device uses Frequency Modulation.
> The Average measurements are approximately 15dB lower than the Peak
> emissions, which seems to be a large difference. Please explain this
> difference for an FM signal (additional plots may help explain this
> difference).
> >
> > 3. Please provide the RF schematics of the Tx Module (shown as a
> > block
U5
> on the schematics submitted).
> >
> > 4. There seems to be a large ferrite core that was added to the
> > power
cord
> of this device. Please submit confirmation from the applicant that
> this modification will be incorporated into every unit marketed.
> Also, the external photos show a power supply with a DC plug on the
> end, but the internal photos show a hard-wired power cord with a
> strain-relief on the enclosure. Please explain the difference and

> confirm which power supply
and
> connection is used for this device.
> >
> > 5. Please submit a letter of authorization that is dated within 1
> > year
> (also please update to the current CCS address in Fremont, CA).
> >
> > 6. FCC 15.215 requires that the 20dB BW be contained within the
> > allowed
> 5725 - 5875 MHz band. Please show the 20dB Occupied Bandwidth plots
> of
low
> and high channels to ensure compliance with FCC 15.215.
> >
> > 7. Also, there is a recommendation to stay within the central 80% of
> > the
> band, which would be 5740 - 5860 MHz. While this device operates
> outside that central 80% of the band, the 20dB BW plots may show that
> compliance with this recommendation is not necessary. Please include
> information in the Operational Description exhibit about frequency
> generation and stabilization.
> >
> > 8. Was the EUT and antenna oriented in different axes to determine
> > worst
> case emissions?
> >
> > 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.
> >
> > Best regards,
> >
> > Chris Harvey
> > Charvey-tcb@ccsemc.com
> >
>