Dear Steve,

For Q1, please find attached for the revised user manual.

For Q2, we have verified 99%bandwidth and the value is quite close to the -26dBc, only 0.1dBm deviation.

For Q3, we have verified both and report recorded is the one with highest conducted port.

Thanks for your help.

Best Regards,

Lucy

Hi Lucy,

See response below.

Best regards, Steve

----Original Message-----

From: lucy_tsai@ccsemc.com.tw [mailto:lucy_tsai@ccsemc.com.tw]

Sent: Wednesday, September 10, 2003 1:19 AM

To: Steve Cheng

Cc: Jonson (E-mail); Lucy (E-mail); Mike Kuo; james_lee@ccsemc.com.tw

Subject: ??: Re: AN03T3190, D-Link KA22003070026-1

Dear Steve.

Please refer to the below for the reply of Q2-Q10, as for the Q1, it's till under checking.

Q2, we have changed the peak power measurement description and confirmed the bandwidth for this test.

Yet we're confused why needs to justify the bandwidth in the report.

<Steve> Since measurement value by channel integration method will depend on integration bandwidth. If integration bandwidth is not wide enough (FCC defined EBW = -26dBc bandwidth) the measurement result may not valid.

Q3, the antenna of TX and RX are the same type and their antenna gain are the same, and that's why only one antenna was tested. Attached please fine the EUT internal photos and antenna spec. for reference.

<Steve> Although antenna and gain are same, but due to the different RF signal trace and antenna selection switch loss, the final RF strength at each antenna port may vary and need to be confirmed.

Q4, the cable loss have been offset in the spectrum(Please see the EMC report P.14 note), and we have changed the report data(see the EMC report p.14) <Steve> OK

Q5, the limit is referring to the fundametal power level 20dB down, as stated in 15.247-4(c) as below.

<Steve> OK

15.247-4(c) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

But we have changed and used the value of every polarization's fundametal power level 20dB down as the limit, and hope it may be clear for your reviewing.

Q6, we have revised it and please see the EMC report. <Steve> OK

Q7, "senser-surface:0mm" here is refer to the configuration 1: touch mode, setting EUT directly connect to the phantom. Besides, we have renamed each test plot which may be easy understood and compared with the SAR test report.

<Steve> OK, but please use EUT Touch position instead of "sensor-surface:0mm" to avoid confusion. As for the missing photo and user manual both have been revised as attached.

Besides, we have a question about 802.11G mode need your clarify.

Why needs the sample detection when we test peak power? The sample detection is not use at peak power measurement. We think the power is not the real peak power. Please provide your comments.

<Steve> You are correct, for 15.247 DTS output power measurement, you shall use peak detector to obtain peak power output.

Thank you and Best Regards,

Lucy

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----Original Message-----
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From: lucy_tsai@ccsemc.com.tw [mailto:lucy_tsai@ccsemc.com.tw]

Sent: Friday, September 12, 2003 4:02 AM

To: Steve Cheng

Cc: Mike Kuo; jonson@ccsemc.com.tw; james_lee@ccsemc.com.tw

Subject: ??: Re: AN03T3190, D-Link KA22003070026-1

Dear Steve.

Please help to check and issue the grant asap if there has no other problem.

Thank you.

Best Regards,

Lucy

Dear Steve,

Please refer to the below for the reply of Q2-Q10, as for the Q1, it's till under checking.

Q2, we have changed the peak power measurement description and confirmed the bandwidth for this test.

Yet we're confused why needs to justify the bandwidth in the report.

Q3, the antenna of TX and RX are the same type and their antenna gain are the same, and that's why only one antenna was tested. Attached please fine the EUT internal photos and antenna spec. for reference.

Q4, the cable loss have been offset in the spectrum(Please see the EMC report P.14 note), and we have changed the report data(see the EMC report p.14)

Q5, the limit is referring to the fundametal power level 20dB down, as stated in 15.247-4(c) as below.

15.247-4(c) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a

radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

But we have changed and used the value of every polarization's fundametal power level 20dB down as the limit, and hope it may be clear for your reviewing.

Q6, we have revised it and please see the EMC report.

Q7, "senser-surface:0mm" here is refer to the configuration 1: touch mode, setting EUT directly connect to the phantom. Besides, we have renamed each test plot which may be easy understood and compared with the SAR test report.

As for the missing photo and user manual both have been revised as attached.

Besides, we have a question about 802.11G mode need your clarify.

Why needs the sample detection when we test peak power? The sample detection is not use at peak power measurement. We think the power is not the real peak power. Please provide your comments.

Thank you and Best Regards,

Lucy

used in substantially similar" laptop computers with side mounted PCMCIA

slots. This device cannot be used with handheld PDAs (personal digital assistants) or other portable host devices. This device and its antenna must not be co-located or operated in conjunction with any other antenna or transmitter."

Question #2: EMC p15. It is not clear that how peak power was measured? Please revise test report to clearly indicate test methodologies and please justify why indicated bandwidth is enough for get equivalent peak power reading.

Question #3: EMC P4 stated that both Tx and Rx diversity-algorithm has been applied to two built-in antennas. But only one antenna was tested in the EMC/SAR reports. Please confirm that tested antenna is the worst-case antenna.

Question #4: EMC P14, please explain how cable-loss of 0 dB was achieved at 2.4 G measurement?

Question #5: EMC P32, please explain how limit 87.1 and 78.89 were obtained?

Question #6: EMC P4 stated transmit power of 19 dBm, but P14 measured 19.29dBm. Please correct.

-SAR portion-

Question #7: Please explain the setup purpose of "Sensor-Surface: 0mm (Fix Surface)" on each test plot.

-For your info-

Note #1: One photo missing on P8 SAR report. Note #2: User manual P37 DBSK typo shall be DBPSK

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 60 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

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