

William Graff

From: Daniel Lee (李春和) [Daniel@sporton.com.tw]
Sent: Wednesday, February 14, 2007 4:37 PM
To: William Graff; Ivonne Wu (吳宜芳); Roy Wu (吳瑞源); Jim Tsai (蔡志成); Sherry Lu (呂惠瑜)
Cc: marianne@atcb.com; major@atcb.com; jerry@atcb.com
Subject: RE: www.AmericanTCB.com ATCB004514 | B94HSTNH-F13C | 466Q - HHF13C | | B94HSTNH-F13C_ATCB004514

Dear Bill,

Further responses as below:

3) and 5). I understand your concern. However, this EUT will generate the same output power on all the different data rates and we find more and more RF utility will have this tendency.

6.) Actually, this EUT will submit FCC for PC II change on GSM-WLAN co-location, so we will also test head SAR for WLAN.

7). and 8). Yes, we confirm that this EUT can transmit 100% duty cycle.

Thanks a lot and please have further comments if you still have any concern.

BR
Daniel

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

From: William Graff [mailto:whgraff@atcb.com]
Sent: Wednesday, February 14, 2007 2:18 PM
To: Daniel Lee (裂瑁cm); Ivonne Wu (裂 } 裂); Roy Wu (裂风方); Jim Tsai (讲BΘ); Sherry Lu (裂礪縫)
Cc: marianne@atcb.com; major@atcb.com; jerry@atcb.com
Subject: RE: www.AmericanTCB.com ATCB004514 | B94HSTNH-F13C | 466Q - HHF13C | | B94HSTNH-F13C_ATCB004514

Dear Daniel,

Regarding your responses:

1.) OK

2.) OK

3.) and 5.) Please note that the experience of the FCC is that higher powers usually occur with lower data rates. It is not reasonable to assume that the highest data rate will produce a worst case result - or higher power. This makes sense if you consider that for a device to operate at higher power often the PA must work in a non-linear portion of its range - which is detrimental to data throughput. Most manufacturers I have seen have the internal programming for a device give lesser power to higher bandwidths.

FCC is recommending that a chart for all WiFi products be presented in all reports showing RF power across the all data rates. In cases where I have requested this data from other laboratories, the "worst case" RF power output has always occurred in 802.11b mode at the lower data rates. If you read "between the lines" of publication KBD248227 [pages 4-6] it should be obvious FCC expects higher power at lower data rates.

4.) OK

6.) OK, but warn manufacturer that if VoIP is initiated, then ear-held SAR testing may be required.

7.) and 8.) OK, but be warned that FCC has found the likelihood of a true 100% duty cycle is low. Consequently they have been asking for justification.

Bill

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

From: Daniel Lee (李春和) [mailto:Daniel@sporton.com.tw]
Sent: Tuesday, February 13, 2007 3:20 PM
To: William Graff; Ivonne Wu (吳宜芳); Roy Wu (吳瑞源); Jim Tsai (蔡志成);

Sherry Lu (呂惠瑜)

Cc: marianne@atcb.com; major@atcb.com; jerry@atcb.com

Subject: RE: www.AmericanTCB.com ATCB004514 | B94HSTNH-F13C | 466Q - HHF13C
|| B94HSTNH-F13C_ATCB004514

Dear Bill,

Please find the responses as below:

1. Yes, the addressing is correct, because there are RF utility in this EUT.
2. Yes, it is typo. We did test it under 1MHz RBW.
3. The data rates are 11Mbps for 11b and 54Mbps for 11g.
4. The report is updated.
5. The same as item 3.
6. No, WiFi does not support VoIP. There is no such plan at the present stage.
7. We did not check the linearity because this device can support 100% duty cycle.
8. The duty cycle is 100%. We did not test each data rate, but tested on different modulation. The RF utility will generate the same power even the data rate is different.

Thanks a lot.

BR
Daniel

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

From: William Graff [mailto:whgraff@atcb.com]

Sent: Friday, February 09, 2007 3:51 PM

To: Fred Yang (楊沛峰); Daniel Lee (李春和); Vanny Wang (王慧萍); Isabel

Chiu (邱嘉凌); Ivonne Wu (吳宜芳); Roy Wu (吳瑞源); Jim Tsai (蔡志成);

Sherry Lu (呂惠瑜)

Cc: marianne@atcb.com; major@atcb.com; jerry@atcb.com

Subject: www.AmericanTCB.com ATCB004514 | B94HSTNH-F13C | 466Q - HHF13C
|| B94HSTNH-F13C_ATCB004514

Regarding www.AmericanTCB.com application:

ATCB ID: ATCB004514

FCC ID: B94HSTNH-F13C

IC: 466Q - HHF13C

TCF:

Account name: sporton

Please see attached comments on this filing.

Best Regards,

Bill

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