

Dward ATCB

From: Dward ATCB [dward@atcb.com]
Sent: 05/19/2006 12:36 PM
To: 'Martin Perrine'
Cc: 'kare.oksanen@nokia.com'; 'William Graff'
Subject: RE: Response to Inquiry to FCC (Tracking Number 928319)

Hi Martin

The email from the KDB was a forward to you as received. I double checked and the comment is not at the bottom of the email I received. Perhaps the email server on one end or the other nixed that last line.

I will take your email as an OK and proceed.

Thanks for your efforts and consideration in this matter it is very greatly appreciated.

Dennis Ward

Evaluation Engineer

American TCB

Certification Resource for the Wireless Industry www.atcb.com

703-847-4700 fax 703-847-6888

direct - 703-880-4841

cell - 209-769-8316

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From: Martin Perrine [mailto:Martin.Perrine@fcc.gov]
Sent: 05/19/2006 12:30 PM
To: Dward ATCB
Cc: kare.oksanen@nokia.com; William Graff
Subject: RE: Response to Inquiry to FCC (Tracking Number 928319)

Dennis Please double check your email. The end should have the following. Please send me the email if it does not and I'll forward it to our KDB folks.

Response to Inquiry on May 19 2006 2:49PM:

Answer: For this specific case of handover operation the TCB can authorize the grant. It should be handled as if there were no simultaneous transmission for RF exposure purposes. This KDB correspondence or similar information should be included in the exhibit. There should be no simultaneous transmission evaluation in the SAR report.

Best Regards

Martin Perrine

*** Non-Public: For Internal Use Only ***

05/19/06

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

From: Dward ATCB [mailto:dward@atcb.com]

Sent: Friday, May 19, 2006 3:14 PM

To: Martin Perrine

Cc: kare.oksanen@nokia.com; 'William Graff'

Subject: FW: Response to Inquiry to FCC (Tracking Number 928319)

Hi Martin

I got the email below from the FCC.

Is this an auto response, or is there more the FCC wants.

If more is needed, I quite frankly do not know what it is you are asking for as the operational description and Nokia has responded with the information we think you have requested.

I understand that the FCC does not want to make precedence on WLAN and Cellphone co-transmission for TCBs, but according to Nokia, this configuration was something that was already previously discussed with the FCC.

If there is more information the FCC desires, can you please be more specific.

Thanks

Dennis Ward

Evaluation Engineer

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From: Generic Office of Engineering Technology [mailto:oetech@fccsun27w.fcc.gov]

Sent: 05/19/2006 11:50 AM

To: dward@atcb.com

Subject: Response to Inquiry to FCC (Tracking Number 928319)

Inquiry:

As per request of Martin Perrine this question is being resubmitted through the KDB. The original question is only changed in the exclusion of manufacturer information. information on device A GSM phone also contains a WLAN device. The GSM and WLAN do cotransmit but only for a very short time and only in a hand over situation. The manufacturer has been in contact with the FCC on this device and has received information that ATCB can certify the product. The FCC has responded with a request for information about the cotransmission time of the device. Question: Based on the information being provided can the TCB certify this device as presented?

---Reply from Customer on 05/16/2006---

WLAN is divided to WLAN module and radio front-end module/parts. WLAN module is a three-die module, partitioned to radio, baseband and energy management die. Module conforms to the IEEE 802.11b/g protocols operating in 2.4 GHz band supporting OFDM data rates of 54, 48, 36, 24, 18, 12, 9 and 6 Mbps as well as CCK data rates of 11 and 5.5Mbps and legacy data rates of 2 and 1Mbps.. In USA channels 1-11 are used (2412-2462MHz). Conducted power output is

approximately 23dBm (200mW). GSM is capable for 850 and 1900 functions (824.2-848.8 and 1850.2-1909.8MHz). Conducted power output is 33dBm (2W) in GSM850 and 30dBm (1W) in GSM1900 in voice mode with 1/8 duty cycle (only mode available for handovers between GSM and WLAN). WLAN is not used for data transmission but only for VoIP calls. Therefore simultaneous transmission can occur only in handover case, in which new channel is prepared at the same time while still connected to the previous channel. In call maintenance mode only the transmitter in use is active, while the other transceiver is in receive mode to seek for access points or base stations. In case handover is triggered either because of preferences or weakening signal strength, simultaneous transmission takes typically less than 80ms in 8-10 seconds time frame (GSM duty cycle is not accounted for in this calculation, but GSM transmission is considered to be continuous signal).

---Reply from Customer on 05/16/2006---

Further information on cotransmission is attached.

Response:

We handle these on a case by case basis. We would need full details to answer the question at hand. Please include more details on both transmitters. Also, include all possible conditions of cotransmission including "maintenance"

Do not reply to this message. Please select the [Reply to an Inquiry Response](#) link from the OET Inquiry System to add any additional information pertaining to this inquiry.