


AN05T4777, AN07T7131(C2PC) Nihon Kohden [Inbox](#)

☆ from **Tim Dwyer** <Timothy_Dwyer@ieee.org> [hide details](#) 3:10 pm (6 hours ago)  [Reply](#)

to Michael Heckrotte <michael.heckrotte@ccsemc.com>
cc September Radecki <september.radecki@ccsemc.com>
date Aug 23, 2007 3:10 PM
subject AN05T4777, AN07T7131(C2PC) Nihon Kohden
mailed-by gmail.com

Hi Miike,

I am working on the C2PC applications for Nihon Kohden. I see no problems with the C2PC information, however for the B6BZM-940PA I notice the grant currently lists a frequency tolerance of 25000 Hz (25 kHz).

This is not the value listed in the CCS application form, but I can see that it came from the attached report.

Can you take a look at the report and offer an opinion about whether the frequency tolerance was correctly calculated and if so provide a new value in PPM?.

It appears to me that there may be an error in the calculation and that the actual frequencies of operation were 608.0250 and 613.9750, not 608.000 and 614.000 as shown in the table. This would make the frequency tolerance considerably smaller.

The issue here is that if we keep the 25Khz tolerance, then the worst case would put the lowest and highest channels right on the band-edge. With the specified 16.5 kHz EBW, half of the EBW would be outside the authorized band.


If you can confirm this, since we are doing a C2PC at this time, we can correct it now.

Thanks and best regards,

Tim Dwyer

 **B6BZM-940PA Original Report.pdf**
3005K [View as HTML](#) [Download](#)

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☆ from **Michael Heckrotte** <michael.heckrotte@ccsemc.com> [hide details](#) 4:06 pm (5 hours ago)  [Reply](#)

to Tim Dwyer - TCB <Timothy_Dwyer@ieee.org>
cc September Radecki <september.radecki@ccsemc.com>
date Aug 23, 2007 4:06 PM
subject RE: AN05T4777, AN07T7131(C2PC) Nihon Kohden

Tim,

There was no error in the original report. It does not calculate frequency tolerance, rather it shows the margin between the actual carrier frequency and the authorized band edge. The worst-case margin is 24.89 kHz. Compensating for half the EBW, the emissions will be at least 16.64 kHz from the band edge.

The requirement is

(e) *Frequency stability*. Manufacturers of wireless medical telemetry devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all of the manufacturer's specified conditions.

and the report shows that this requirement is met, albeit perhaps not as clearly as might be desired.

Regarding the frequency tolerance on the grant, 25 kHz is certainly incorrect. The actual worst-case measured tolerance is 230 Hz, or for your reference, 0.375 ppm.

Best Regards,
Mike

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☆ from **Michael Heckrotte** <michael.heckrotte@ccsemc.com> [hide details](#) 4:29 pm (5 hours ago) [Reply](#)

to Michael Heckrotte <michael.heckrotte@ccsemc.com>,
Tim Dwyer - TCB <Timothy_Dwyer@ieee.org>
cc September Radecki <september.radecki@ccsemc.com>
date Aug 23, 2007 4:29 PM
subject RE: AN05T4777, AN07T7131(C2PC) Nihon Kohden

P.S. Good eye.

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☆ from **Tim Dwyer** <Timothy_Dwyer@ieee.org> [hide details](#) 9:58 pm (0 minutes ago) [Reply](#)

to Michael Heckrotte <michael.heckrotte@ccsemc.com>
date Aug 23, 2007 9:58 PM
subject Re: AN05T4777, AN07T7131(C2PC) Nihon Kohden
mailed-by gmail.com

Mike,

This will support the change. Thanks for the help and explanation.

Tim