

## Chris Harvey

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**From:** weili@ac-lab.com  
**Sent:** Monday, July 11, 2005 12:06 PM  
**To:** Chris Harvey  
**Subject:** RE: Andrew DMAU-U AN05T4900

Chris,

The emission designators for  
CDMA: 1M25F9W  
WCDMA: 4M20F9W

The channel info:  
CDMA: Lowest 1931.25MHz, Highest:1988.75MHz  
WCDMA: Lowest 1932.4MHz, Highest: 1987.6MHz.

Regards,

Wei

> Wei, I am looking at some examples people have used for both CDMA and  
> WCDMA and I see that the Modulation type Designator used is the F9W,  
> not DXW. That would make the Emission Designators 1M25F9W and 4M20F9W.  
> Please look into this before your client formally responds.

>  
> Best regards,

>  
> Chris Harvey  
> Chris Harvey EMC Consultants, LLC  
> charvey@ieee.org  
> cell 443-622-3300

>  
>  
> -----Original Message-----  
> From: weili@ac-lab.com [mailto:weili@ac-lab.com]  
> Sent: Sunday, July 10, 2005 8:42 PM  
> To: charvey@ieee.org  
> Subject: Re: Andrew DMAU-U AN05T4900

> Chris,

> got some info from client:

> \*\*\*\*\*

> I have no idea what their terminology is. CDMA and WCDMA are complex  
> modulated waveforms which technically means we have both angle and  
> amplitude modulation. I would guess at the 'D' type since the  
> modulation we use does transmit a sequence of states(0,0; 0,1; 1,0;  
> 1,1). I don't have access to the subpart you're referring to, but if  
> you read it see if with my description in hand you confirm that 'D'  
> would be the better answer.

> \*\*\*\*\*

> So for now, the emission designators will be 1M25DXW and 4M20DXW. I  
> send those info to my client and they will confirm it first tomorrow  
> morning.

> Regards,

> Wei

>  
>  
>  
>  
>  
>> Wei, for this transmitter device the Emission Designator must be 7  
>> characters or designation. The first 4 will represent the emission  
>> bandwidth and the last 3 will represent the modulation. Please  
>> revise accordingly.  
>>  
>> Thanks,  
>> Chris  
>> -----Original Message-----  
>> From: weili@ac-lab.com  
>> Date: Sat, 9 Jul 2005 17:07:02  
>> To: "Chris Harvey" <Chrisharveyemc@comcast.net>  
>> Subject: RE: Andrew DMAU-U AN05T4900  
>>  
>> Chris,  
>>  
>> Thanks for helping me at the weekend!  
>>  
>> For CDMA/WCDMA: please use GXW and DXW for Emission Designators.  
>>  
>> Regards,  
>>  
>> Wei  
>>  
>>> Wei, I don't know what happened with your cell voicemail. I am sure  
>>> I left the messages on the right number as I heard your outgoing  
>>> message.  
>>>  
>>> The Emission Designator issue is still open, which is one of the  
>>> messages I  
>>> left you yesterday (this was never answered from the original request  
>>> #2).  
>>> Please provide the Emission Designators for this device based on the  
>>> Emission Bandwidths and the Modulation types.  
>>>  
>>> I have completed the review of the remaining items.  
>>>  
>>> In the future, please address all responses together so that all of  
>>> the questions get answered.  
>>>  
>>> Best regards,  
>>>  
>>> Chris Harvey  
>>> Chris Harvey EMC Consultants, LLC  
>>> charvey@ieee.org  
>>> cell 443-622-3300  
>>>  
>>>  
>>> -----Original Message-----  
>>> From: weili@ac-lab.com [mailto:weili@ac-lab.com]  
>>> Sent: Friday, July 08, 2005 8:26 PM  
>>> To: Chris Harvey  
>>> Subject: RE: Andrew DMAU-U AN05T4900  
>>>  
>>> Chris,  
>>>  
>>> Sorry I missed your call. I didn't get messages from my phone ( cell  
>>> # 908-392-3378).  
>>>  
>>> Will send you the revised letter on Monday.

>>>  
>>> Not quite sure your first question: Yes. We used the actually  
>>> generated signal from Digital input.  
>>>  
>>> Regards,  
>>>  
>>> Wei  
>>>  
>>>> Wei, I have left a couple messages with you today but have not  
>>>> heard back from you. I have asked you for confirmation that the  
>>>> signals measured are  
>>>> actually generated from the digital input through the DAC board and  
>>>> not  
>>>> just  
>>>> a signal generator into the amplifier section of the unit.  
>>>>  
>>>> Also, as I mentioned on the phone we can complete the processing of  
>>>> the application with the current confidentiality letter but must  
>>>> have a revised  
>>>> Confidentiality letter better describing the justification for keeping  
>>>> the  
>>>> Internal Photos confidential within a couple days.  
>>>>  
>>>> Please contact me to discuss.  
>>>>  
>>>> Best regards,  
>>>>  
>>>> Chris Harvey  
>>>> Chris Harvey EMC Consultants, LLC  
>>>> charvey@ieee.org  
>>>> cell 443-622-3300  
>>>>  
>>>> -----Original Message-----  
>>>> From: weili@ac-lab.com [mailto:weili@ac-lab.com]  
>>>> Sent: Friday, July 08, 2005 8:59 AM  
>>>> To: Chris Harvey  
>>>> Subject: RE: Andrew DMAU-U AN05T4900  
>>>>  
>>>> Chris,  
>>>>  
>>>> Wondering if you got my emails I sent out last night.  
>>>>  
>>>> For the confidentiality letter, I appreciate if you could accept  
>>>> this current version considering the urgency since it's used for  
>>>> previous applications. We'll add the info to the following  
>>>> projects.  
>>>>  
>>>> Can we have the process done today? Sorry to bother you again and  
>>>> again.  
>>>>  
>>>> Best,  
>>>>  
>>>> Wei  
>>>>  
>>>>> Wei, when you revise the test report please correct those typos of  
>>>>> the margin (recalculate the actual margin). It does appear as  
>>>>> though this  
>>>>> should not need to have further Substitution testing.  
>>>>>  
>>>>> One additional item that I neglected to mention in the original  
>>>>> request:  
>>>>> Please revise your confidentiality letter to include more  
>>>>> justification for

>>>> holding the internal photos confidential. The FCC is very particular  
>>>> about  
>>>> allowing these to be confidential. I think you will need to include  
>>>> information about this device having very proprietary designs that  
>>>> could  
>>>> be  
>>>> visible in the internal photos. Additionally this device is likely  
>>>> to  
>>>> be  
>>>> inside a locked cabinet and requires special permission and tools to  
>>>> access.  
>>>> This device is not available to the general public.

>>>> Thanks,

>>>> Chris Harvey  
>>>> Chris Harvey EMC Consultants, LLC  
>>>> charvey@ieee.org  
>>>> cell 443-622-3300

>>>> -----Original Message-----

>>>> From: weili@ac-lab.com [mailto:weili@ac-lab.com]  
>>>> Sent: Thursday, July 07, 2005 12:15 AM  
>>>> To: Chris Harvey  
>>>> Subject: RE: Andrew DMAU-U AN05T4900

>>>> Hi, Chris.

>>>> Just check the report for the Field Strength measurement data.  
>>>> There's typo for the margin (-15). It should be -50.

>>>> I think this will answer Q5.

>>>> Regards,

>>>> Wei

>>>>> Wei, please confirm that you received the e-mail sent last night  
>>>>> requesting additional information.

>>>>> Best regards,

>>>>> Chris Harvey  
>>>>> Chris Harvey EMC Consultants, LLC  
>>>>> charvey@ieee.org  
>>>>> cell 443-622-3300

>>>>> -----Original Message-----

>>>>> From: weili@ac-lab.com [mailto:weili@ac-lab.com]  
>>>>> Sent: Tuesday, July 05, 2005 8:38 PM  
>>>>> To: charvey@ieee.org  
>>>>> Subject: Re: Andrew DMAU-U AN05T4900

>>>>> Hi, Chris.

>>>>> Thanks a lot for your help.

>>>>> Regards,

>>>>> Wei

>>>>>> Wei Li, I have been reviewing the application and need to access  
>>>>>> some information on the remote computer. I will not have the  
>>>>>> chance to complete this until tomorrow.  
>>>>>> -----Original Message-----  
>>>>>> From: weili@ac-lab.com  
>>>>>> Date: Tue, 5 Jul 2005 08:33:50  
>>>>>> To:"Chris Harvey" <Chrisharveyemc@comcast.net>  
>>>>>> Subject: Re: Andrew DMAU-U AN05T4900  
>>>>>>  
>>>>>> Chris,  
>>>>>>  
>>>>>> How's the Holiday weekend?  
>>>>>>  
>>>>>> Sorry to bother you. ( I was chased by the client day by day  
>>>>>> since it passed their deadline).It'd be great if we can have  
>>>>>> some good news today.  
>>>>>>  
>>>>>> You can call me anytime 908-392-3378.  
>>>>>>  
>>>>>> Regards,  
>>>>>>  
>>>>>> Wei  
>>>>>>  
>>>>>>> Wei Li, I will assign this application to myself. I am headed  
>>>>>>> out of town  
>>>>>>> this afternoon for the holiday weekend, but will try to work on it  
>>>>>>> as  
>>>>>>> I  
>>>>>>> can  
>>>>>>> (ASAP).  
>>>>>>>  
>>>>>>> Have a great holiday weekend!  
>>>>>>>  
>>>>>>> Chris  
>>>>>>>  
>>>>>>>> Chris Harvey  
>>>>>>>> Chris Harvey EMC Consultants, LLC  
>>>>>>>> charvey@ieee.org  
>>>>>>>> cell 443-622-3300  
>>>>>>>>  
>>>>>>>>  
>>> -----Original Message-----  
>>> From: weili@ac-lab.com [mailto:weili@ac-lab.com]  
>>> Sent: Wednesday, July 06, 2005 8:36 AM  
>>> To: Compliance Certification Services  
>>> Subject: Re: Andrew Corporation, FCC ID: S8L-100154DMAU-U,  
>>> Assessment  
>>> NO.:  
>>> AN05T4900, Notice#1  
>>>  
>>> Hi, Chris.  
>>>  
>>> Thanks. wow, lot of homework! I'll work with my client today. Just  
>>> don't want to sacre them away:-)  
>>>  
>>> See some responses for your questions.  
>>> I may find some sample reports for your reference today.  
>>>  
>>> Regards,  
>>>  
>>> Wei  
>>> 9083923378  
>>>

>>>> Dear Wei Li,  
>>>>  
>>>> I have reviewed the above referenced application and finds that the  
>>>> following items need to be addressed in order to complete the  
>>>> review:  
>>>>  
>>>> 1. This device has been submitted as an amplifier device; however  
>>>> this device accepts a digital signal input, creates an RF signal,  
>>>> upconverts it  
>>>> to the desired RF signal and then amplifies it. This description of  
>>>> the  
>>>> device does not fit the definition of an Amplifier (per FCC needs RF  
>>>> in,  
>>>> amplification and RF out). Since this device is classified as a  
>>>> transmitter (Equipment Class TNB) (not amplifier which is equipment  
>>>> class  
>>>> AMP) the frequency stability test is required. Please submit data  
>>>> that  
>>>> shows that the RF signal is stable (compared to the intended signal)  
>>>> over  
>>>> voltage and temperature variations as required by FCC 2.1055. Please  
>>>> also  
>>>> specify the Frequency Tolerance value for this device.  
>>>>  
>>>  
>>> WILL GET BACK TO YOU ASAP. MAY REVISE THE REPORT.  
>>>  
>>>> 2. Please specify the Emission Designators for the CDMA2000 and  
>>>> WCDMA signals of this device.  
>>>  
>>> CAN YOU HELP ME ON THESE INFO SINCE MIEK DID THIS FOR ME ON PREVIOUS  
>>> PROJECTS?  
>>>  
>>>>  
>>>> 3. The test report shows power measurements of 71Watts as compared  
>>>> to the stated/rated 60Watts.  
>>>  
>>> 71W IS OVERDIVE CONDITION, NOT NORMINAL/ RATED POWER. IT'S STILL  
>>> WITHIN THE POWER TOLERANCE VALUE.  
>>>  
>>>>  
>>>> 4. The requirements of FCC 24.238 is that the out of band emissions  
>>>> must be attenuated below -13dBm. The plots contained in the test  
>>>> report seem  
>>>> to show signals in the 1MHz immediately out of the 1930 - 1990 MHz  
>>>> band  
>>>> that do not comply with this requirement. Please submit compliance  
>>>> data  
>>>> for the requirement of 24.238(b).  
>>>>  
>>>  
>>> I HAVE THOSE DATA AND WILL REVISE THE REPORT.  
>>>  
>>>> 5. The Field Strength of Radiated Measurements requires a  
>>>> substitution method. The measurements provided are not performed  
>>>> with substitution method, even though there are signals within 30dB  
>>>> of the expected limit when absolute measurements are performed.  
>>>> Please provide substitution measurements for these significant  
>>>> signals.  
>>>  
>>> MIKE TOLD ME FCC HAS THE NOTICE REGARDING NOT USING SUBSTITUTION  
>>> MEASUREMENTS. MOST LUCENT APPLICATIONS USED ABSOLUTE MEASUREMENTS.  
>>>  
>>>>

>>>> 6. Please note, although this is not required for the  
>>>> Certification of this application (not Pt. 24 related), the Digital  
>>>> Device label required  
>>>> of FCC 15.19 is required to be placed on this device as the device is  
>>>> too  
>>>> large to justify placing the required wording just in the manual. The  
>>>> label placement exhibit implies that it would be OK to have this  
>>>> information contained in the manual.

>>>>  
>>> WILL INFORM THIS ISSUE TO CLIENT.

>>>>  
>>>> 7. Please note that the following note is likely to be placed on  
>>>> the  
>>>> Grant:  
>>>> The power listed is conducted. The antenna used for this transmitter  
>>>> must  
>>>> be fixed mounted on outdoor permanent structures. RF exposure  
>>>> compliance  
>>>> is addressed at the time of licensing, as required by the responsible  
>>>> FCC  
>>>> Bureau(s), including antenna co-location requirements of 1.1307(b)(3).

>>>>  
>>> IS THIS A NORMAL STANDARD STATEMENT? ALSO WILL INFORM THE CLIENT ON  
>>> THIS ISSUE.

>>>>  
>>>> Best regards,  
>>>> Chris Harvey  
>>>> charvey-tcb@ccsemc.com  
>>>> 443-622-3300

>>>>  
>>>>  
>>>> 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.

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>>>>  
>>>> Best Regards,  
>>>>  
>>>> Chris Harvey  
>>>> charvey@ieee.org

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