

Chris Harvey

From: Claire Hoque
Sent: Friday, April 30, 2004 8:50 PM
To: Chris Harvey
Cc: Michael Heckrotte; Kathy Yao
Subject: FW: Additional Information needed AN04T3878 FCC ID: RPARFMHL00

Hi Chris,

Here is the answer :

The measurements on page 27 of the test report were made using the nominal center frequency of 13.56 as the reference. The actual reference for FCC purposes is the actual center frequency at 120 VAC, 20 deg C. With this proper reference point, the measurements demonstrate compliance with the frequency stability specification.

[This is an original submitted data:](#)

Ambient Temperature	Frequency with time elapse(MHz)			
(°C)	0 minute	2 minutes	5 minutes	10 minutes
-20	0.00675	0.00679	0.00680	0.00681
50	0.00645	0.00644	0.00643	0.00642
Primary Supply Voltage	Frequency with time elapse(MHz)			
at 20 °C (V)	0 minute	2 minutes	5 minutes	10 minutes
102	0.00694	0.00692	0.00692	0.00692
120	0.00688	0.00687	0.00690	0.00690
138	0.00692	0.00691	0.00690	0.00692

Here is an updated data with **20 °C @ 120Vac** as referent point (0):

Ambient Temperature	Frequency with time elapse(MHz)			
(°C)	0 minute	2 minutes	5 minutes	10 minutes
-20	-0.00013	-0.00008	-0.00010	-0.00009
50	-0.00043	-0.00043	-0.00047	-0.00048
Primary Supply Voltage	Frequency with time elapse(MHz)			
at 20 °C (V)	0 minute	2 minutes	5 minutes	10 minutes
102	0.00006	0.00005	0.00002	0.00002
120 (Reference Point)	0.00688 = (0)	0.00687 = (0)	0.0069 = (0)	0.0069 = (0)
138	0.00004	0.00004	0.00000	0.00002

Specified Limit $\pm 0.01\% = \pm 1.356\text{KHz} = \pm 0.001356\text{MHz}$

Thanks,

Claire

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

5/1/2004

From: Chris Harvey
Sent: Friday, April 30, 2004 3:09 AM
To: Michael Heckrotte
Cc: Mike Kuo; Chris Harvey
Subject: Additional Information needed AN04T3878 FCC ID: RPARFMHL00

Michael, The review of the above referenced application has been performed and the following item needs to be cleared before processing can continue:

The frequency Tolerance is required to be maintained within 0.01% of the operating frequency. For an operating frequency of 13.56MHz, the frequency tolerance limit is 1.36kHz. According to the data on page 27 of 31 of the test report, there was frequency drift of 6.9kHz. Please explain.

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.

Please reply directly to me at charvey-tcb@ccsemc.com.

Best regards,

Chris Harvey