

From: CERTADM  
Sent: Wednesday, October 30, 2002 11:39 AM  
To: 'mkuo@ccsemc.com'  
Subject: PHILIPS COMPONENTS, FCC ID:PUBWCM1008, AN02T2358 ( Composite Device- DTS portion

Notice\_content  
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Question #1: The antenna specification provided with this submission contains with two type of antenna ( installed in 15 inches LCD panel and installed in 13/14 inches LCD panel ). Based upon the antenna gain specification, in 2400-2500MHz and 5150-5350MHz band, 15 inches LCD antenna has the highest gain; in 5470-5725MHz and 5725-5850MHz band, 13/14 LCD antenna has the highest gain.

Reply: (WE HAVE REQUESTED ONLY 15 INCHES TYPE OF ANTENNA TO BE TESTED. ANTENNA FOR 13/14, WE DO NOT REQUIRE APPROVAL AS WELL AS TESTING. KINDLY GRANT APPROVAL BASED ON ONLY 15 INCH ANTENNA)

It appears that only 15 inches LCD type of antenna was tested during Radiated Spurious emission tests on 2400-2500 MHz and 5725-5825MHz bands. Please provide additional radiated spurious emission tested with 13/14 LCD type of antenna.

Question #2: As indicated in the theory of operation, this device is capable of operating with 802.11 a/b/g mode. The antenna terminal test report has the test data with 802.11 b/g mode but the Radiated emission portion of test report did not have any indication that 802.11g mode was investigated. Please explain or provide additional data.

Reply: (KINDLY IGNORE 802.11g)

Question #3: Page 7 of antenna terminal test report indicates that this device is operating with 13 channel on 802.11b mode. However, the radiated test report and antenna terminal tests report only have data to support 11 channel operation ( 2412- 2462MHz). In addition, antenna terminal report also indicates that this device is operating from 5725-5850MHz but the upper frequency investigated only up to 5825MHz. Please explain.

Reply: First, the manufacturer is declaring that the highest channel center frequency is this channel 5825 MHz.

But since the channel has a span of 20MHz wide this means that there is data content beyond 5825 MHz.

Question #4: Per FCC measurement guideline for direct sequence spread spectrum, 6dB bandwidth shall be measured with RBW = 100kHz. However, the antenna terminal portion of test report indicates that 6dB bandwidth was measured with RBW=1MHz. Please redo the 6dB bandwidth tests by following FCC measurement guideline and provide the test data.

Reply: Attached please find 6dB bandwidth measured with RBW=VBW=100kHz.

Question #5: All radiated emission tests were performed with stand alone configuration. If this device is seeking full transmitter module approval, please provide a request for transmitter module approval letter and address all module approval requirements stated in Public Notice DA 001407.

Reply: Attached please find Modular approval cover letter.

Question #6: If this application is intended to have full module approval, please provide installation procedures which will be provided to the OEM system integrator.

Reply : Attached please find Antenna location and module installation guideline.

Question #7: Since the antennas that were tested are LCD panel type of antenna, this transmitter module approval will be limited to be used in Notebook computer with similar size and design to the LCD type of antenna described in the filing. Please confirm.

Reply: (YES, WE CONFIRM)

Question #8: Please provide a photo or drawing to show the exact antenna location on the LCD panel.

Reply: Attached please find antenna location information.

Question #9: One of unique labeling requirement per FCC public notice DA001407 is the label requirement on the host device. Please provide a label format to show how the device will be labeled on the host device.

Reply: Attached please find labeling instruction

Question #10 : The user manual provided does not include RF exposure warning statement. Please provide revised user manual to comply this requirement.

Reply: Attached please find revised user manual.

Best Regards

Mike Kuo / TCB Certifier

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 60 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.