

From: Steve Cheng
Sent: Thursday, October 23, 2003 4:08 PM
To: 'lucy_tsai@ccsemc.com.tw'
Cc: Jonson (E-mail); Lucy (E-mail); Mike Kuo; Scott Wang
Subject: RE: ???: RE: AN03T3309 TwinHead Tablet PC with 11band BT

Hi Lucy,

Please refer to the response below in blue.

Best regards,

Steve

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

From: lucy_tsai@ccsemc.com.tw [mailto:lucy_tsai@ccsemc.com.tw]
Sent: Thursday, October 23, 2003 4:55 AM
To: Steve Cheng
Cc: Jonson (E-mail); Lucy (E-mail); Mike Kuo; Scott Wang
Subject: ???: RE: AN03T3309 TwinHead Tablet PC with 11band BT

Hi Steve,

Please refer to the below for our reply, thank you.

EMC portion

Q1, we have corrected it and please refer to the page 5 for the revised report.

[Steve Cheng] OK

Q2-4, will be forward to you later.

Q5, 0.425us is duty time, 1.25ms is cycle time.

Please refer between 1R and 1-delta on test plot table in test report.

[Steve Cheng]

Per FCC Bluetooth test procedure the proper calculation shall be

CH Low: $(425 \text{ U} \times 1600 / 79) \times 30 = 258 \text{ (ms)}$. Please correct .

Q6, 802.11b-->software controlled; Bluetooth-->software controlled.

WLAN and BT are working in same time during the test and we believe that is worst-case.

[Steve Cheng] OK.

SAR Portion

Q7, we don't understand what you actually referred to since there are head liquid confirmation data for system validation test. Because the EUT is a tablet PC that test with head is not required, then we used flat phantom with muscle liquid during the test. And the muscle liquid confirmation data has been recorded in the page 17 of SAR test report. Please check it again and advise if they are enough.

[Steve Cheng] I mean, liquid confirmation for the head liquid is missing. please supply.

Q8, we have corrected and please refer to the revised SAR test report.

[Steve Cheng] OK

Q9, please refer to the page 27-43 of attached SAR test report.

[Steve Cheng] OK

Q10, there are no page 29, please re-check it again.

[Steve Cheng] Original SAR test report is 61 pages long, please refer to p29 and p15 in attached file. I have highlighted the spots in questions for your convenient.

Q11, through double confirm that this device does has a second battery, and then we will recall the sample to test with it.

So the additional test result will be forward to you once the test finished.

Thank you and Best Regards,

Lucy

Steve Cheng <SCheng@CCSEMC.com>
2003/10/21 09:54 AM

收件人： "Lucy (E-mail)"
<lucy_tsai@cclab.com.tw>, "Jonson (E-mail)" <jonson@cclab.com.tw>
副本抄送： Mike Kuo
<MKUO@CCSEMC.com>, Scott Wang <SWang@CCSEMC.com>
主旨： RE: AN03T3309 TwinHead Tablet PC
with 11b and BT

RT for project: AN03T3309 TwinHead Tablet PC with 11b and BT

Subject:
EMC portion

Question #1: Test report P5, Do you mean 15.247 in following 15.207 instance?

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, and 15.207.

Question #2: users manual p19 function indicator does not matching the photo

- 5. RJ-11 jack ->1
 - 6. PC card slot -> 2
 - 7. Active stylus hole -> 3
 - 8. Kensington lock hole-> 4
- Please correct.

Question #3: Users manual p29 has following statement for user to follow. Please clarify that if this ferrite core is a must component to pass the unwanted radiated emission or is just a courtesy component to end user for further reducing the emission? If this is for compliance purpose, please explain how applicant can expect the end user to follow?

-Anti-electromagnetic wave clip

To eliminate electromagnetic waves, it is strongly recommended that you thread the USB cable or phone cord through the clip provided as shown below when using USB peripherals, audio-out jack or connecting to a phone line.

Question #4: users manual p48 stated that "

-IMPORTANT NOTE (CO-LOCATION)

FCC RF Radiation Exposure Statement: This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter."

This statement is not matching the test condition. Please make necessary revise to reflect the fact that this device can co-located with tested Bluetooth device if desired.

-SAR Exposure

This device has been tested for compliance with FCC RF Exposure (SAR) limits in typical flat configurations.

In order to comply with SAR limits established in the ANSI C95.1 standards, it is recommended when using a CF card that the integrated antenna is positioned more than 1.5cm from your body or nearby persons during extended periods of operation. If the antenna is

Appendix A - Statements

positioned less than 1.5cm from the user, it is recommended that the user limit the exposure time.

Please delete this whole paragraph, since only Bluetooth has been tested with this filing.

-WLAN

"To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing."

Please re-evaluate, if this statement is necessary.

Question #5: P41, Dwell time plots shown 1.25ms pulse duration, please explain the principle behind the calculation?

A period time = $0.4 * 79 = 31.6$ (s)

CH Low: $0.425 * 1600/79 * 31.6=272.00$ (ms)

CH Mid: $0.420 * 1600/79 * 31.6=268.80$ (ms)

CH High: $0.420 * 1600/79 * 31.6=268.80$ (ms)

Question #6: P76, Please explain, how both transmitters (802.11 and BT) was configured during the Power line conducted test? Does pre-investigation had been conducted to determine the worst-case?

SAR portion:

Question #7: P17, missing head liquid confirmation data with deviation to support the system validation measurement. Please supply.

Question #8: P3/4 documented that "Max. O/P Power: 15.55dBm (2462MHz)" but

highest power occurred at 2412M as recorded in the SAR test table not 2462M. Please correct.

Question #9: Please supply full version of calibration file (data shall including cal procedure and factor) for both dosimetric E-field probe and Validation dipole.

Question #10: P29 Conductivity number not consistent with data shown on P15 table. (1.795 vs. 1.85). Please clarify and make necessary revise.

Question #11: users manual p35 mentioned that second battery is available with this product but SAR test does not address this in the report. 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 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.

Best Regards

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