

From: Bryan Taylor ES-Lex
Sent: Wednesday, March 31, 2004 1:47 PM
To: Roland Gubisch ES-Box
Cc: David Chernomordik ES-Mpk
Subject: SAR issues with H9PMC9063A
Roland,

- 1) The belt clip has a metallic spring. The headset has a metallic spring fixture to attach the headset to the head. The case itself has no metallic elements.
- 2) The separation distance provided from the phantom to the EUT is 35 mm. 23mm are due to the belt clip and 12mm are due to the thickness of the case.
- 3) Radiated power measurements were performed and are listed on page 10 of the report (maximum measured ERP/EIRP). During the measurement the output power was monitored using a spectrum analyzer and a small probe antenna to ensure that the power did not change too much.
- 4) Noted.
- 5) Noted.
- 6) It looks as if the 900 MHz dipole validation plot was taken without the dipole in the exact spot it normally is at. This would cause the offset SAR distribution if the software was not informed that the dipole was not in the center of the phantom. The maximum SAR value is still valid, it just looks a bit off.

Let me know if there is anything else needed.

Best regards,

Bryan

TO: David Chernomordik
Bryan Taylor

FROM: R. W. Gubisch

DATE: March 30, 2004

RE: TCB Review of Symbol FCC ID: H9PMC9063A

Review of this application is complete and the following points are noted:

Administrative

Confidentiality request lists "Integration Guide," I cannot identify one. Please explain or provide.

15C EMC Report

1. Test report is unsigned. Please furnish version with signatures.
2. Please provide AC line conducted data and setup photos.

22H and 24E EMC Report

No questions.

SAR Report and Plots

1. Please indicate if the belt clip, headset or carrying case has metallic elements.
2. What is the actual separation distance provided by the belt clip?
3. Please identify what RF power measurements were performed during SAR testing to assure that SAR data is comparable to 15C/22H/24E data.
4. Comment: SAR profile in Exhibit 18 is truncated and should have been repeated, although expected SAR is very low. Please re-do truncated SAR plots in future submissions.
5. Comment: Page 8 section header "Measurement Tractability" should be "Measurement Traceability."

Certification can proceed when these issues are resolved.

Thank you,
Roland Gubisch

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

From: Marco Belli [mailto:Marco.Belli@uk.symbol.com]
Sent: Monday, March 29, 2004 9:15 AM
To: David Chernomordik ES-Mpk
Subject: RE: Internal photos

When we go to production - the terminal sample will use 'professional' copper tape - it is sandwiched between insulating tape, this is to prevent shorting out components.

With regards the effect of this tape it will be IDENTICAL as what has been submitted for testing.

If you need the brand name I will get it for you.

Rgds
Marco

>>> "David Chernomordik ES-Mpk" <david.chernomordik@intertek.com>
29/03/04 17:05:06 >>>
Hi Marco,

I understand that the question is not what is the reason for this copper tape. The question is that the device is a prototype which will not be identical to the production device, as I don't think the copper will be on the production devices, unless you declare different.

David

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

From: Marco Belli [mailto:Marco.Belli@uk.symbol.com]
Sent: Sunday, March 28, 2004 11:45 PM
To: David Chernomordik ES-Mpk
Subject: Re: Internal photos

Hi David

I received confirmation from our engineering team with regards to the copper tape.

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Both items were incorporated to address RF desensitization of the CDMA radio receiver by local (near-field) EMI within the terminal.

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Rgds
Marco

>>> "David Chernomordik ES-Mpk" <david.chernomordik@intertek.com>
26/03/04 22:27:58 >>>
Hi Marco

When we open the Brick for photographs, we recognized that there are some parts covered with a copper tape. What is it?
The TCB reviewer asked for explanation.

David