

Chris Harvey

From: Kyung-Taek LEE [leekt@digitalemc.com]
Sent: Tuesday, March 16, 2004 11:43 PM
To: Chris Harvey
Cc: MET Lab (Mrs. Marianne Bosley); ??? (???)
Subject: RE: Samsung DVD and Wireless Speaker MT#15209

Dear Mr. Chris Harvey,

I attached the letter for the 15.203 antenna requierment.

Best regards,
K.T LEE

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

From: Chris Harvey [mailto:Chrisharveyemc@comcast.net]
Sent: Wednesday, March 17, 2004 10:13 AM
To: 'Kyung-Taek LEE'
Cc: 'Marianne Bosley'
Subject: RE: Samsung DVD and Wireless Speaker MT#15209

Thank you KT. I will accept this and have the Grant issued with the condition of using this Loctite 271 adhesive.

Best regards,

Chris Harvey

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

From: Kyung-Taek LEE [mailto:leekt@digitalemc.com]
Sent: Tuesday, March 16, 2004 8:00 PM
To: Chris Harvey
Subject: RE: Samsung DVD and Wireless Speaker MT#15209

Dear Mr. Chris Harvey,

I am sorry, I attached the spec for adhesive.

Best regards,
K.T LEE

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

From: Chris Harvey [mailto:Chrisharveyemc@comcast.net]
Sent: Wednesday, March 17, 2004 5:46 AM
To: 'Al'æAA'
Subject: RE: Samsung DVD and Wireless Speaker MT#15209

KT, there was no additional attachment to your e-mail. Please send the additional document that indicates permanent bond. If it is permanent, then it will be acceptable. The FCC wants to know that it will destroy the connector if someone wants to remove the antenna.

Best regards,

Chris Harvey

3/17/2004

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

From: Àì°æÃÃ [mailto:leekt@digitalemc.com]
Sent: Tuesday, March 16, 2004 10:02 AM
To: Chris Harvey
Cc: Owon8253 Seo
Subject: RE: Samsung DVD and Wireless Speaker MT#15209
Importance: Low

Dear Mr. Chris Harvey,

Thank you for your reply.

I received another adhesive from customer. and I attached a specification of adhesive. I think that this adhesive is permanent.
please let me know as soon as possible whether our customer use it or not.

Best regards,
K.T. LEE

If our customer use it,

[Attached please find documents for Samsung DVD and Wireless Speaker.](#)

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

From: Chris Harvey [Chrisharveyemc@comcast.net]
Sent: 2004? 3? 15? [? ? ?] ? ? 10:31
To: 'Kyung-Taek LEE' [leekt@digitalemc.com]
Subject: RE: Samsung DVD and Wireless Speaker MT#15209

KT, I'm sorry for not responding right away. I have researched on the Three Bond Web Site and see that the 1400 series adhesives only increase the 'hold' by 10-20%, which does not sound permanent. The following words are from the FCC Interpretation portion of their web site:

Permanent attachment may be achieved by various means. For instance, the factory-application of a permanent cement or epoxy to a standard antenna connector is acceptable. With this approach, the applicant of the IR must specify in the certification application the type of adhesive to be used, and must confirm that the adhesive will be applied at the factory (prior to shipment). If this technique is employed, the certification grant will be conditioned accordingly.

Please explain how this ThreeBond 1401B is to be considered permanent. The Grant will have a condition about the type of adhesive to be used.

Thanks you,

Chris Harvey

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

From: Kyung-Taek LEE [mailto:leekt@digitalemc.com]
Sent: Monday, March 15, 2004 8:52 PM
To: Chris Harvey EMC
Subject: FW: Samsung DVD and Wireless Speaker MT#15209

[Dear Mr. Chris Harvey,](#)

[Hello,](#)

I send the mail as below, but I don't received your response for antenna requirement.
please let me know whether it is good or bad as soon as posible.

Best regards,
K.T. LEE

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

From: Kyung-Taek LEE [mailto:leekt@digitalemc.com]
Sent: Sunday, March 14, 2004 12:43 PM
To: Chris Harvey
Cc: ¼¿À¿ø (°í·çÅø); MET Lab (Mrs. Marianne Bosley)
Subject: RE: Samsung DVD and Wireless Speaker MT#15209

Dear Mr. Chris Harvey,

Thank you for your help.

1. For 15.203 antenna requirements,
--> please refer to the 15.203 letter and the 1400list.
2. RF Exposure warnings,
--> please refer to the Regulatory Information.
3. For 15.247 requirements,
--> I requested it to the manufacturer of the RF Transceiver unit.
and I will send it to you as soon as I take.

please deal with it as soon as possible.

Best regards,
K.T. LEE

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

From: Chris Harvey [mailto:Chrisarveyemc@comcast.net]
Sent: Saturday, March 13, 2004 6:03 AM
To: 'Kyung-Taek LEE'
Cc: 'Marianne Bosley'
Subject: RE: Samsung DVD and Wireless Speaker MT#15209

KT, based on the response the following items are still open (the FHSS 15.247 items below were not answered in the attachment submitted):

application for the **DVD Receiver (FCC ID: A3LHTDB390)** and found the following items that need to be addressed:

1. The Block Diagram and Parts List state that a standard SMA connector is used for the antenna connection. This is not acceptable for FCC compliance with 15.203. Please explain how this device and antenna comply with the 15.203 antenna requirements.
2. This EUT is a desktop device and is considered

Mobile for RF Exposure. This device is a 52mW Mobile Tx and thus needs RF Exposure warnings in the manual. Please submit the Users Manual RF Exposure Warning indicating that a 20cm separation is needed and that it is not to be co-located with another transmitter. Here is an example of the appropriate Users Manual RF Exposure statements for this type of device.

'→'× The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

3. FHSS devices in accordance with 15.247 must comply with the following requirements. These items were not included in the application. These items are typically available from the manufacturer of the RF Transceiver unit.

'→'× Is the hopping sequence pseudorandom, based on the technical description?

'→'× Is each channel used equally on average, based on the technical description?

'→'× Does the associated system receiver have a compliant input bandwidth, based on the measured 20 dB emission bandwidth?

'→'× Does the associated system receiver have the ability to hop in synchronization with the transmitter, based on the technical description?

'→'× Does the frequency hopping system comply with the non-coordination requirement of 15.247(h)?

I have reviewed the application for the **Wireless Speaker (FCC ID: A3LSWA1000)** and found the following items that need to be addressed:

1. This EUT is a desktop device and is considered Mobile for RF Exposure. This device is a 52mW Mobile Tx and thus needs RF Exposure warnings in the manual. Please submit the Users Manual RF Exposure Warning indicating that a 20cm separation is needed and that it is not to be co-located with another transmitter. Here is an example of the appropriate Users Manual RF Exposure

statements for this type of device.

'→'× The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

2. FHSS devices in accordance with 15.247 must comply with the following requirements. These items were not included in the application. These items are typically available from the manufacturer of the RF Transceiver (BT) unit.

'→'× Is the hopping sequence pseudorandom, based on the technical description?

'→'× Is each channel used equally on average, based on the technical description?

'→'× Does the associated system receiver have a compliant input bandwidth, based on the measured 20 dB emission bandwidth?

'→'× Does the associated system receiver have the ability to hop in synchronization with the transmitter, based on the technical description?

'→'× Does the frequency hopping system comply with the non-coordination requirement of 15.247(h)?

Best regards,

Chris Harvey

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

From: Kyung-Taek LEE [mailto:leekt@digitalemc.com]

Sent: Friday, March 12, 2004 2:05 AM

To: Chris Harvey

Subject: RE: Samsung DVD and Wireless Speaker
MT#15209

Dear Mr.Chris Harvey,

Hello,

Attached please find documents for Samsung DVD and Wireless Speaker.

Best regards,
K.T. LEE

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

From: Chris Harvey

[mailto:Chrisharveyemc@comcast.net]

Sent: Friday, March 12, 2004 3:38 AM

To: 'Kyung-Taek LEE'

Cc: 'Marianne Bosley'; charvey@ieee.org

Subject: Samsung DVD and Wireless Speaker
MT#15209

KT, I have reviewed the application for the

DVD Receiver (FCC ID:

A3LHTDB390) and found the following items that need to be addressed:

1. The Block Diagram and Parts List state that a standard SMA connector is used for the antenna connection. This is not acceptable for FCC compliance with 15.203. Please explain how this device and antenna comply with the 15.203 antenna requirements.
2. This EUT is a desktop device and is considered Mobile for RF Exposure. This device is a 52mW Mobile Tx and thus needs RF Exposure warnings in the manual and MPE calculation. Please submit these items.
3. FHSS devices in accordance with 15.247 must comply with the following requirements. These items were not included in the application. These items are typically available from the manufacturer of the RF Transceiver unit.
 - '→'× Is the hopping sequence pseudorandom, based on the technical description?
 - '→'× Is each channel used equally on average, based on the technical description?
 - '→'× Does the associated system receiver have a compliant input bandwidth, based on the measured 20 dB emission bandwidth?
 - '→'× Does the associated system receiver have the ability to hop in synchronization with the transmitter, based on the technical description?
 - '→'× Does the frequency hopping system comply with the non-coordination requirement of 15.247(h)?

I have reviewed the application for the

Wireless Speaker (FCC ID:

A3LSWA1000) and found the following items that need to be addressed:

1. This EUT is a desktop device and is considered Mobile for RF Exposure. This device is a 34mW Mobile Tx and thus needs RF Exposure warnings in the manual and MPE calculation. Please submit these items.
2. FHSS devices in accordance with 15.247 must comply with the following requirements. These items were not included in the application. These items are typically available from the manufacturer of the RF Transceiver (BT) unit.
 - '→'× Is the hopping sequence pseudorandom, based on the technical description?
 - '→'× Is each channel used equally on average, based on the technical description?
 - '→'× Does the associated system receiver have a compliant input bandwidth, based on the measured 20 dB emission bandwidth?
 - '→'× Does the associated system receiver have the ability to hop in synchronization with the transmitter, based on the technical description?
 - '→'× Does the frequency hopping system comply with the non-coordination requirement of 15.247(h)?

Please note that this device appears to use Bluetooth technology and thus is required to be licensed under the Bluetooth Certification program.

Please forward the information requested above directly to me so that these applications can be completed.

Best regards.

Chris Harvey

