



9/5/2000

Dear Jon Curtis,

Below I have answered each of your questions in bold below and attached also please find exhibits where appropriate.

Thanks and Best Regards,

Clifton P. Brick

FCC ID# O5UKS110B

1. For your information only: The DCD code on the 731 form item 6(a) is only for transmitters below 1705 kHz, not 1705 MHz as you have indicated. I am considering this device to be a DXX Low Power Communications Device Transmitter. No response is needed to this item.

Thank You.

2. A shielded cable was used during test on the audio port of the device. 15.27(c) requires that either such a cable be shipped with the device or that the user's manual inform the user of the requirement to use shielded cables on the audio input port. Please add a suitable statement to the user's manual or tell us that an shielded audio cable is shipped with the unit.

An appropriate statement was added, please see the attached revised instruction.

3. You state on page 13 of the test report that a video bandwidth of 300KHz was used. Did you use this VBW with above 1GHz where a Resolution Bandwidth of 1MHz is required or did you use a different VBW above 1GHz?

The bandwidth of 1MHz was used above 1GHz.

4. Your tabular data for radiated emissions says the units are dBuV. Shouldn't these be reported in units of dBuV/m? How do you account for antenna factor? If your instrument automatically adds in the antenna factor, do you also include a cable loss factor? What about the preamp?

You are correct, the data is actually in dBuV/m .

Antenna factors are added automatically via an amplitude correction file.

Cable loss is compensated automatically via an amplitude correction file.

The preamp is internal to the instrument and is compensated automatically.

5. Please confirm that the antenna is directly soldered to the PC board and that there is no connector in line with the antenna. If there is a connector describe how it meets the unique connector requirements of 15.203.

Yes, the antenna is soldered directly to the PCB.

6. I think there is another PCB within the chassis. If there is, please submit photos of both sides of any circuit boards not already submitted in the test report. The schematic diagrams list an "LED_PCB".

This was an oversight, please find the photos attached.

7. Please confirm that the label is "permanently attached" and tell us the method. Please confirm that the point size of the typeface used is larger than 8pt.

The Label will be molded into the rear housing and the font will meet the required minimum. See photo attached.

8. 15.31(e) requires that the power input to the device be varied from 85% to 115% of nominal while the effect on fundamental radiated emissions field strength. Please tell me where this is covered in your test report or submit data showing that the effect of power variations on the unit's fundamental emission.

The units operate on 3V regulated DC at the board level.

The input voltage was varied +/- 15% and no output power change was noted.



9. I see no data for the harmonics of the fundamental. I would have expected data for at least the second and third. Please confirm that there is no data and if that is the case, please submit your noise floor reading in field strength at the measurement distance to confirm that you can observe to the limit level.

Please find attached a plot of my OATS ambient in the range requested.

10. In future submissions please send the equipment photos as two separate exhibits labeled exterior and interior photos. I will extract them from this application and submit them separately this time. The FCC wants me to submit them as separate files.

No Problem.

Attachments:

FCC label location photo
Revised Instructions
Ambient 1-4.6GHz