



MOTOROLA

Date: December 8, 2009

Subject: Request for additional information regarding FCC ID: IHDT56KL2

Reference:

Correspondence Reference Number: IHD91433
Confirmation Number: 911251433-34
Date of Original Email: December 2, 2009

Prepared by:

Andrew Bachler, Principal Staff Engineer
Motorola Mobile Device Business
Libertyville, Illinois 60048

Questions and responses follow:

1. Please submit a block diagram of the RF section of the transmitter that shows all clock/oscillator values.

Response: [Please refer to the revised Block Diagram submitted online.](#)

2. Please confirm that the EUT will only be marketed to OEM installers.

Response: [This is a module to be targeted to OEM that integrates the module into their host/product. Even the User Manual is not called so, but named "Developer Guide".](#)

3. On p. 14/90 of the installation manual, the max permitted antenna gain/cable loss combinations for cellular and PCS band operation must be corrected to the values determined in the MPE report, and the value for AWS operation (also from the MPE report) must be entered. Please revise and resubmit the manual.

Response: [Please refer to the updated Installation Manual submitted online. Page 14 is corrected with same antenna gains as specified in MPE calculation document.](#)

4. Please specify if the measured conducted output power levels are peak or average.

Response: [The measured output powers are peak power levels.](#)

5. Please provide a plot demonstrating compliance with the 13 dB PAR limit for AWS operation.

Response: Please refer to the 13 dB PAR plots EX06-2 submitted online on 11/30/09.

6. Please provide RF conducted plots of the AWS emissions starting at points removed by 1 MHz from both bandedges using RBW= 1 MHz, as required by Section 27.53(h)(1).

Response: Please refer to the 1MHz plots EX06-1 submitted online on 11/30/09.

7. The MPE report assumes GPRS Class 11 transmit capability in the cellular band calculations, however, the operational description lists Class 12 capability. Please either confirm that Class 12 operation is not implemented in the EUT, or else re-calculate the cellular band MPE using the (approximate) 50% duty cycle utilized in Class 12 operation.

Response: The GSM modes utilize a conducted power cutback of 1.5 dB for each additional slot that is used in the frame. The table below shows the resulting peak and average power levels for the corresponding multi-slot classes. It is seen that Class 11 has the highest time averaged power.

Class 8	Class 10	Class 11	Class 12	Units
34.36	32.86	31.36	29.86	dBm
2728.98	1931.97	1367.73	968.28	mW
341.12	482.99	512.90	484.14	mW (time avg)