



MOTOROLA

Date: August 31, 2006

Subject: Request for additional information regarding FCC ID: IHDT56GJ1 (Portable PCS GSM transceiver)

Reference:

Correspondence Reference Number:	IHD0433
Confirmation Number:	1607260443/44/45
Date of Original Email:	August 24, 2006

Prepared by:

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

Questions and responses follow:

1. Please submit a list of the pc and peripherals used for the Part 15B tests (make/model/FCC ID or DoC).

Response: Please refer to the equipment list in exhibit 6.

2. What analyzer settings and detector functions were used to perform the Part 15B tests? If an Average detector was used for radiated emissions above 1 GHz, please confirm that the peak levels were also measured, to ensure that they do not exceed the average limit by more than 20dB.

Response: All preliminary sweeps were done with a Peak Detector. All measured peak levels were less than the average limit.

Preliminary Scan Detector – Peak Detector

Final Scan – Quasi Peak Detector (Frequencies less than 1GHz)

Average Detector (Frequencies above 1 GHz)

3. Please submit test set up photos for the Part 15B tests (Radiated and AC Line Conducted).

Response: Please refer to the attached photo:

4. What detector function was used to perform the Part 22/24 spurious radiated and conducted emission tests?

Response: Peak Detector

5. Please confirm that the FCC's "Preliminary Guidance for Reviewing Applications for Certifications of 3G Devices" released on May 9, 2006, was used to perform the Part 22/24 EMC tests.

Response: Please refer to the following conducted power attached chart.

Per the “Preliminary Guidance for Reviewing Applications for Certifications of 3G Devices” released on May 9, 2006, both RC1 and RC3 CDMA modes are considered. The conducted power measurements (steps 3 & 4 of section 4.4.5.2 of 3GPP2 C.5.011 / TIA -98-E) show that the portable cellular phone FCC ID IHDT56GJ1 has the same output conducted power for both CDMA modes.

		Conducted power (dBm) for CDMA modes	
		RC1	RC3
CDMA 800	Ch 1013	25.15	25.12
	Ch 384	25.15	25.12
	Ch 777	24.91	24.90
CDMA 1900	Ch 25	25.18	25.05
	Ch 600	25.06	24.98
	Ch 1175	25.00	25.05

6. In the SAR report, the dipole validation kit is listed as being past its cal due date. Please address.

Response: Please refer to the revised SAR report and supplemental SAR report..

7. The statements required by Sections 15.21 and 15.105 cannot be located in the user’s manual. Please confirm that they will be included there prior to shipment of the EUT.

Response: Confirmed, the part 15 statements (sections 15.21 and 15.105) will be included in the final version of the user’s manual.

T-coil

8. Appendix 3-6 (Page 26) states a CMU200 manual reference value was used for the calculation of the 0dBm0 reference whereas Exhibit 6B-2 (Page 7) states that an internal calibration procedure should be implemented. Please show that the vocoder calibration was performed and was correctly implemented for the testings.

9. Demonstration that ABM2 noise is not affected by RF frequency shows a discrepancy between Table 4 and Table 5 regarding Channel 25 ABM2 data.

10. Please indicate whether backlight was on or off during test conditions in Table 4. If off, then HAC compliance operation should be advised to users within the Users Manual.

11. ABM2 figure reference in Appendix 3-1 (Page 21) was not found. Please supply. Please show that significant audio band noise components beyond 10kHz were addressed.

12. Please provide details of the measurement from device reference plane to probe for the Clause 6 tests.

13. Please show that the vocoder can pass the 1kHz 1/3 octave banded signal.

14. Please fully address the FCC 3G policy recently issued in June 2006. Please provide details of device capability, RF modes and vocoder modes/options used. Please also provide SO2 and SO55 conducted powers as required in the 3G guidance in RF emissions report.

15. Please discuss uncertainty table items. Which are lab specific? Please be sure to include Noise Contribution, RF interference and DUT positioning in your response.
RF emissions

16. Please provide validation for use of 30 kHz VBW

Response: For questions 8-16, please refer to the supplemental HAC test report.