



Date: April 11, 2006

To: Gregory Czumak / PC Test TCB
From: Mr. Andrew Bachler / Motorola Inc.

Subject: Request for additional information regarding FCC ID: IHDT56FB1 (Portable GSM transceiver)

Reference:

Application Received: 12/05/2005
 Correspondence Reference Number: 151205.IHD
 Confirmation Number: 1512050573 / 0574
 Date of Original Email: 04/07/2006

Questions and responses follow:

1. Page 4 of the BT test report states that the phone has a GSM 850 MHz transmitter. Please clarify.

Response:

The EUT does not contain an 850 MHz transmitter. Reference to 850MHz on page 4 of the BT test report is an error.

2. Page 45-50 of the BT test report seems to have positive margins listed. This is due to incorrect limits listed for the restricted band. Please clarify.

Response:

The plots on pages 45-50 indicate the correct values, however, the tabulated data for the results you specified above were not entered correctly. The results were corrected and are shown below.

Page 45:

Authorized Band Emissions Mid Channel Dual Polarization X

Motorola
 ROKR E2
 CH 39
 X-axis
 Red: Hoz Green: Vert

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts]	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Height [cm]	Polarity
2 - 4GHz 2360 - 2520MHz												
1	2440.802	63.04	pk	4.2	21.9	89.14	999	-909.86	999	-909.86	100	Horz
2	2379.559	19.65	pk	4.4	21.8	45.85	54	-8.15	54	-8.15	100	Horz
3	2503.327	18.81	pk	4.1	22.1	45.01	54	-8.99	54	-8.99	100	Horz
2 - 4GHz 2360 - 2520MHz												
4	2441.122	55.56	pk	4.2	21.9	81.66	999	-917.34	999	-917.34	100	Vert
5	2388.216	19.93	pk	4.4	21.8	46.13	54	-7.87	54	-7.87	100	Vert
6	2488.577	18.93	pk	4.1	22.1	45.13	54	-8.87	54	-8.87	100	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m
 LIMIT 2: Restricted Band

Page 46:

Authorized Band Emissions Mid Channel Dual Polarization Y

Motorola
ROKR E2
CH 39
Y-axis

Red: Hoz Green: Vert

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts]	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Height [cm]	Polarity
2 - 4GHz 2360 - 2520MHz												
1	2441.122	51.69 pk		4.2	21.9	77.79	999	-921.21	999	-921.21	100	Horz
2	2387.575	19.45 pk		4.4	21.8	45.65	54	-8.35	54	-8.35	100	Horz
3	2502.044	19.51 pk		4.1	22.1	45.71	54	-8.29	54	-8.29	100	Horz
2 - 4GHz 2360 - 2520MHz												
4	2441.122	63.64 pk		4.2	21.9	89.74	999	-909.26	999	-909.26	100	Vert
5	2381.804	19.33 pk		4.4	21.8	45.53	54	-8.47	54	-8.47	100	Vert
6	2493.066	18.95 pk		4.1	22.1	45.15	54	-8.85	54	-8.85	100	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m
LIMIT 2: Restricted Band

Page 47:

Authorized Band Emissions Mid Channel Dual Polarization Z

Motorola
ROKR E2
CH 39
Z-axis

Red: Hoz Green: Vert

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts]	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Height [cm]	Polarity
2 - 4GHz 2360 - 2520MHz												
1	2441.122	55.99 pk		4.2	21.9	82.09	999	-916.91	999	-916.91	100	Horz
2	2385.331	19.43 pk		4.4	21.8	45.63	54	-8.37	54	-8.37	100	Horz
3	2497.555	19.06 pk		4.1	22.1	45.26	54	-8.74	54	-8.74	100	Horz
2 - 4GHz 2360 - 2520MHz												
4	2441.122	58.61 pk		4.2	21.9	84.71	999	-914.29	999	-914.29	100	Vert
5	2376.994	18.97 pk		4.4	21.8	45.17	54	-8.83	54	-8.83	100	Vert
6	2488.898	19.03 pk		4.1	22.1	45.23	54	-8.77	54	-8.77	100	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m
LIMIT 2: Restricted Band
LIMIT 3: NONE

Page 48:

No changes are necessary. Use same table as original.

Authorized Band Emissions High Channel Dual Polarization Y

Motorola
ROKR E2
CH 78
Y-axis

Red: Hoz Green: Vert

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts]	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Height [cm]	Polarity
2 - 4GHz 2360 - 2520MHz												
1	2480.24	50.92	pk	4.1	22	77.02	999	-921.98	999	-921.98	100	Horz
2	2494.349	19.62	pk	4.1	22.1	45.82	54	-8.18	54	-8.18	100	Horz
3	2512.946	19.15	pk	4.1	22.1	45.35	54	-8.65	54	-8.65	100	Horz
2 - 4GHz 2360 - 2520MHz												
4	2480.24	62.76	pk	4.1	22	88.86	999	-910.14	999	-910.14	100	Vert
5	2499.158	19.49	pk	4.1	22.1	45.69	54	-8.31	54	-8.31	100	Vert
6	2510.701	19.11	pk	4.1	22.1	45.31	54	-8.69	54	-8.69	100	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m

LIMIT 2: Restricted Band

Authorized Band Emissions High Channel Dual Polarization Z

Motorola
ROKR E2
CH 78
Z-axis

Red: Hoz Green: Vert

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts]	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Height [cm]	Polarity
2 - 4GHz 2360 - 2520MHz												
1	2480.24	52.49	pk	4.1	22	78.59	999	-920.41	999	-920.41	100	Horz
2	2495.952	19.71	pk	4.1	22.1	45.91	54	-8.09	54	-8.09	100	Horz
3	2506.854	19.02	pk	4.1	22.1	45.22	54	-8.78	54	-8.78	100	Horz
2 - 4GHz 2360 - 2520MHz												
4	2480.24	57.96	pk	4.1	22	84.06	999	-914.94	999	-914.94	100	Vert
5	2500.12	19.8	pk	4.1	22.1	46	54	-8	54	-8	100	Vert
6	2517.756	19.46	pk	4.1	22.1	45.66	54	-8.34	54	-8.34	100	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m

LIMIT 2: Restricted Band

3. FYI: There is a typo on page 7 of exhibit #6 in the GSM EMC test report. The high channel power is indicated at 30.37 dBmi.

Response:

Agreed, the "i" should be removed from "dBmi".

Prepared by:

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