EMI Test Report

Tested in accordance with
Federal Communications Commission (FCC)
Personal Communications Services
CFR 47, Parts 15, Subpart B
&
Industry Canada (IC), ICES-003

RIM Testing Services (RTS)

A division of Research In Motion Limited

REPORT NO.: RTS-0628-0702-11

PRODUCT MODEL NO.: RBP41GW **TYPE NAME**: BlackBerry

FCC ID: L6ARBP40GW

IC: 2503A-RBP40GW

DATE: 08 March 2007

Copyright 2005-2007 Page 1 of 21

RTS RIM Testing Services	EMI Test Report for the BlackBerry Handheld Model RBP41GW		
Test Report No.	Dates of Test	Author Data	
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow	

Statement of Performance:

The BlackBerry Handheld, model RBP41GW, part number CER-14402-001 Rev 3, and accessories when configured and operated per RIM's operation instructions, performs within the requirements of the test standards.

Declaration:

We hereby certify that:

The test data reported herein is an accurate record of the performance of the sample(s) tested.

The test results are valid for the tested unit (s) only.

The test equipment used was suitable for the tests performed and within manufacturer's published specifications and operating parameters.

The test methods were consistent with the methods described in the relevant standards.

Documented by:

Kevin Chow

Compliance Specialist

Date: 08 Mar 2007

Tested and reviewed by:

Masud S. Attayi, P.Eng.

Team Lead, Regulatory Compliance

Date: 08 Mar 2007

Reviewed by:

Maurice Battler

Compliance Specialist

Maurice Buttley

Date: 08 Mar 2007

Approved by:

Paul G. Cardinal, Ph.D.

Director

Date: 12 Mar 2007

A division of Research in Motion Limited

Copyright 2005-2007 Page 2 of 21

RTS RIM Testing Services	EMI Test Report for the BlackBerry Handheld Model RBP41GW	
Test Report No.	Dates of Test	Author Data
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow

Table of Contents

A.	Scope	1
В.	Associated Document	1
C.	Product Identification4	4
D.	Support Equipment Used for the Testing of the EUT	5
E.	Test Voltage	5
F.	Test Results Chart	5
G.	Modifications to EUT	3
Н.	Summary of Results	3
l.	Compliance Test Equipment Used	3
APF	PENDIX 1 - AC LINE CONDUCTED EMISSIONS TEST DATA	9
APF	PENDIX 2 - RADIATED EMMISIONS TEST DATA16	3

- A division of Research in Motion Limited. Copyright 2005-2007 Page 3 of 21

RTS RIM Testing Services	EMI Test Report for the BlackBerry Handheld Model RBP4	11GW
Test Report No.	Dates of Test	Author Data
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow

A. Scope

This report details the results of compliance tests that were performed in accordance with the requirements of:

- FCC CFR 47 Part 15, Subpart B, August 14 2006, Class B Digital Devices, Unintentional Radiators
- IC ICES-003 Issue 4, February 2004, Class B Digital Devices, Unintentional Radiators
- EN55022: 1998 A1:2000/A2:2003 Conducted/Radiated Emissions Class B

B. Associated Document

Document number RTS-0628-RBP41GW-01

C. Product Identification

Manufactured by Research In Motion Limited located at:

295 Phillip Street Waterloo, Ontario Canada, N2L 3W8

Phone: 519 888 7465 Fax: 519 888 6906

The equipment under test (EUT) was tested at the RIM Testing Services (RTS) EMI test facility, located at:

305 Phillip Street Waterloo, Ontario Canada, N2L 3W8 Phone: 519 888 7465

Fax: 519 888 6906

The testing was performed on February 08 to 14, 2007.

The sample EUT included:

1. BlackBerry model RBP41GW, part number CER-14402-001 Rev 2, PIN 20583A5A

To view the differences between CER-14402-001 Rev 2 and CER-14402-001 Rev 3, see document number RTS-0628-RBP41GW-01.

This report shall <u>NOT</u> be reproduced except in full without the written consent of RIM Testing Services (RTS) - A division of Research in Motion Limited.

A division of Research in Motion Limited.

Copyright 2005-2007 Page 4 of 21

RTS RIM Testing Services	EMI Test Report for the BlackBerry Handheld Model RBP41GW		
Test Report No.	Dates of Test	Author Data	
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow	

BlackBerry Wireless Handheld Accessories Tested

- 1) Folding Blade Charger, part number ASY-07040-001 with an output voltage of 5.0 volts dc, 0.75 amps and attached USB cable with a lead length of 1.80 metres.
- 2) Captive Cable Charger, part number ASY-07559-001 with an output voltage of 5.0 volts dc, 0.5 amps and attached USB cable with a lead length of 1.80 metres.
- 3) Alternative Folding Blade Charger, part number ASY-12709-001 with an output voltage of 5.0 volts dc, 0.75 amps with an attached USB cable with a length of 1.80 metres.
- 4) USB data cable, part number HDW-06610-001, 1.45 metres long.
- 5) Stereo Headset, part number HDW-14322-001, 1.3 metres long.

D. Support Equipment Used for the Testing of the EUT

- 1) PC System, Myraid, model EN-P3B-7, serial number CCC0004078
- 2) Monitor, ViewSonic, model number VCDTS23103-2M, serial number 4B022952648
- 3) Printer, H/P, model number C5884A, serial number US8251W0VQ

E. Test Voltage

The ac input voltage was 120/230 volts, 60/50 Hz where applicable. This configuration was per RIM's specifications.

F. Test Results Chart

SPECIFICATION	Test Type	MEETS REQUIREMENTS	Performed By
FCC CFR 47 Part 15, Subpart B IC ICES-003 Radiated Unintentional Spurious Emissions	Class B	Yes	Masud Attayi
FCC CFR 47 Part 15, Subpart B IC ICES-003 Conducted AC Line Emission	Class B	Yes	Masud Attayi

Copyright 2005-2007 Page 5 of 21

This report shall <u>NOT</u> be reproduced except in full without the written consent of RIM Testing Services (RTS) - A division of Research in Motion Limited.

RTS RIM Testing Services	EMI Test Report for the BlackBerry Handheld Model RBP4	11GW
Test Report No.	Dates of Test	Author Data
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow

G. Modifications to EUT

No modifications were required on the EUT.

H. Summary of Results

SPECIFICATION		TEST TYPE	RESULT	TEST DATA
FCC CFR 47	IC	TESTTIFE	RESULI	APPENDIX
Part 15, Subpart B	ICES-003	Conducted AC Line Emission	Pass	1
Part 15, Subpart B	ICES-003	Radiated Unintentional Spurious Emissions	Pass	2

a) AC LINE CONDUCTED EMISSIONS

The conducted emissions were measured using the test procedure outlined in CISPR Recommendation 22 through a 50 Ohm Line Impedance Stabilization Network (LISN), which was inserted in the power line to the equipment to provide the specified impedance for measurements. The EUT was placed on a nonconductive wooden table, 80 cm high that was positioned 40 cm from a vertical ground plane. The RF output of the network was connected to an EMI receiver system with characteristics that duplicate those of the receiver specified in CISPR Publication 16.

The following test configurations were measured. The Handheld was in idle and battery charging mode. The ac input voltage was 120/230 volts, 60/50 Hz where applicable for the below:

- 1. The Handheld was connected to the Folding Blade Charger and to the Stereo Headset.
- 2. The Handheld was connected to the Alternative Folding Blade Charger.
- 3. The Handheld was connected to the Captive Cable Charger and to the Stereo Headset.

The sample EUT's conducted emissions were compared with respect to the FCC CFR 47 Part 15, Subpart B, IC ICES-003, and EN55022 Class B limit. The sample EUT had a worse case test margin of 1.42 dB below the average limit and 11.42 dB below the Quasi-Peak limit at 0.489 MHz using the QP detector for the Folding Blade Charger, test configuration 1.

Measurement Uncertainty ±2.0 dB

To view the test data/plots, see APPENDIX 1.

A division of Research in Motion Limited.

Copyright 2005-2007 Page 6 of 21

This report shall <u>NOT</u> be reproduced except in full without the written consent of RIM Testing Services (RTS) - A division of Research in Motion Limited.

RTS RIM Testing Services	EMI Test Report for the BlackBerry Handheld Model RBP41GW		
Test Report No.	Dates of Test	Author Data	
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow	

b) RADIATED EMISSIONS

The radiated emissions from the EUT were measured using the methods outlined in CISPR Recommendation 22. The EUT was placed on a nonconductive styrofoam table, 80 cm high that was positioned on a remote controlled turntable. The test distance used between the EUT and the receiving antenna was three metres. The turntable was rotated to determine the azimuth of the peak emissions. Then the emissions were maximized by elevating the antenna in the range of 1 to 4 metres. The maximum emission level was recorded. The frequency range measured was from 30 MHz to 1.0 GHz. Both the horizontal and vertical polarisations of the emissions were measured.

The measurements were done in a semi-anechoic chamber. The semi-anechoic chamber FCC registration number is **778487** and the Industry Canada file number is **IC4240**.

The EUT was configured and operated to produce the maximum radiated emissions while still keeping within RIM's specifications.

The Handheld was in idle and battery charging mode. The ac input voltage was 120 volts, 60 Hz where applicable for the below. The following test configurations were measured:

- 1. The Handheld was connected to the Folding Blade Charger.
- 2. The Handheld was connected to the Captive Cable Charger and to the Stereo Headset.
- 3. The Handheld was connected to the Captive Cable Charger.
- 4. The Handheld was connected to the PC and its support equipment.
- 5. The Handheld was connected to the Alternative Folding Blade Charger.

The system's radiated emission levels in idle mode were compared with respect to the FCC CFR 47 Part 15, Subpart B, IC ICES-003, and EN55022 Class B limit. The system met the requirements with a worse case emission test margin of 5.24 dB at 58.66 MHz using test configuration 2.

Sample Calculation:

Field Strength (dBµV/m) is calculated as follows:

 $FS = Measured Level (dB\mu V) + A.F. (dB/m) + Cable Loss (dB) - Preamp (dB) + Filter Loss (dB)$

Measurement Uncertainty ±4.0 dB

To view the test data see APPENDIX 2.

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services (RTS)

Copyright 2005-2007 Page 7 of 21

⁻ A division of Research in Motion Limited.

RTS RIM Testing Services	EMI Test Report for the BlackBerry Handheld Model RBP41GW		
Test Report No.	Dates of Test	Author Data	
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow	

I. Compliance Test Equipment Used

<u>UNIT</u>	<u>MANUFACTURER</u>	MODEL	<u>SERIAL</u> <u>NUMBER</u>	CAL DUE DATE (YY MM DD)	<u>USE</u>
Preamplifier	Sonoma	310N/11909A	185831	07-11-23	Radiated Emissions
Preamplifier system	TDK RF Solutions	PA-02	080010	07-11-22	Radiated Emissions
EMI Receiver	Agilent	8546A	3942A00517	07-09-21	Conducted/Radiated Emissions
RF Filter Section	Agilent	85460A	3704A00481	07-09-21	Conducted/Radiated Emissions
Digital Multimeter	Hewlett Packard	34401A	US36042324	07-09-19	Conducted/Radiated Emissions
Environment Monitor	Control Company	1870	230355190	07-12-28	Conducted/Radiated Emissions
L.I.S.N.	Emco	3816/2	1120	08-08-28	Conducted Emissions
Impulse Limiter	Rohde & Schwarz	ESHS-Z2	836248/052	07-11-20	Conducted Emissions
Hybrid Log Antenna	TDK	HLP-3003C	17401	08-08-04	Radiated Emissions
Universal Radio Communication Tester	R&S	CMU 200	837493/073	07-12-01	Radiated/Conducted Emission
EMI Test Receiver	R&S	ESIB 40	100255	07-05-11	Radiated Emission

- A division of Research in Motion Limited. Copyright 2005-2007 Page 8 of 21

RTS RIM Testing Services	EMI Test Report for the BlackBerry Handheld Model RBP4	41GW
Test Report No.	Dates of Test	Author Data
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow

APPENDIX 1 - AC LINE CONDUCTED EMISSIONS TEST DATA

Copyright 2005-2007 Page 9 of 21

RTS RIM Testing Services	EMI Test Report for the BlackBerry Handheld Model RBP41GW					
Test Report No.	Dates of Test	Author Data				
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow				

AC Conducted Emissions Test Results

The environmental test conditions were: Temperature 23°C

Pressure 1019mb Relative Humidity 22%

Test Configuration 1

Date of test: February 13, 2007

FCC CFR 47 Part 15, Subpart B, IC ICES-003 and EN 55022, Class B

Frequency	Line	Reading (QP)	Correction Factor	Corrected Reading (QP)	Limit (QP)	Limit (AV)	Margin (QP) Limits	Margin (AV) Limits
(MHz)		(dBµV)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)	(dB)
0.489	L1	34.81	9.85	44.66	56.08	46.08	-11.42	-1.42
0.522	N	28.58	9.85	38.43	56.00	46.00	-17.57	-7.57
0.838	N	29.87	9.87	39.74	56.00	46.00	-16.26	-6.26
0.924	N	28.40	9.87	38.27	56.00	46.00	-17.73	-7.73
1.020	L1	31.80	9.87	41.67	56.00	46.00	-14.33	-4.33
1.050	N	30.13	9.87	40.00	56.00	46.00	-16.00	-6.00
1.144	N	32.53	9.88	42.41	56.00	46.00	-13.59	-3.59
1.174	L1	29.94	9.88	39.82	56.00	46.00	-16.18	-6.18
1.364	L1	30.49	9.88	40.37	56.00	46.00	-15.63	-5.63
1.367	N	29.82	9.88	39.70	56.00	46.00	-16.30	-6.30
1.464	L1	34.09	9.89	43.98	56.00	46.00	-12.02	-2.02
1.506	L1	26.13	9.89	36.02	56.00	46.00	-19.98	-9.98

All other emission levels had a test margin of greater than 25 dB.

See graph 1 for the measurement plot.

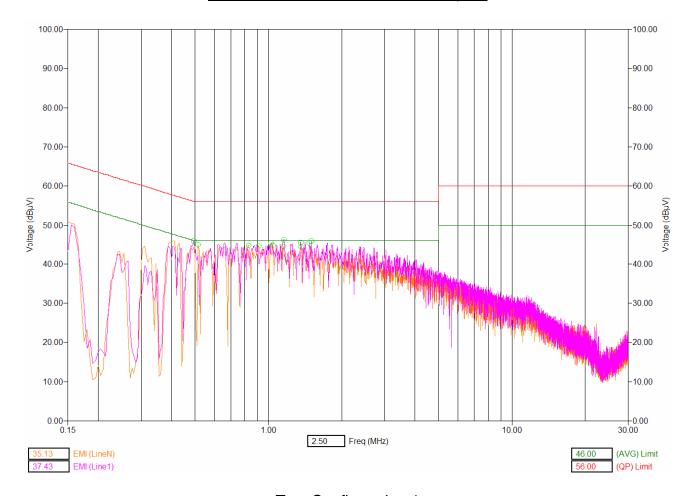
Copyright 2005-2007 Page 10 of 21

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services (RTS)

⁻ A division of Research in Motion Limited.

RTS RIM Testing Services	MI Test Report for the BlackBerry Handheld Model RBP41GW					
Test Report No.	Dates of Test	Author Data				
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow				

AC Conducted Emissions Test Graph 1



Test Configuration 1

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services (RTS)

- A division of Research in Motion Limited.

Copyright 2005-2007 Page 11 of 21

RTS RIM Testing Services	EMI Test Report for the BlackBerry Handheld Model RBP41GW					
Test Report No.	Dates of Test	Author Data				
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow				

AC Conducted Emissions Test Results

The environmental test conditions were: Temperature 23°C

Pressure 1019mb Relative Humidity 22%

Test Configuration 2

FCC CFR 47 Part 15, Subpart B (CISPR 22), IC ICES-003, Class B

Date of test: February 13, 2007

Frequency	Line	Reading (QP)	Correction Factor	Corrected Reading (QP)	Limit (QP)	Limit (AV)	Margin (QP) Limits	Margin (AV) Limits
(MHz)		(dBµV)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)	(dB)
0.153	N	33.70	9.82	43.52	66.00	56.00	-22.48	-12.48
0.353	N	25.98	9.85	35.83	58.84	48.84	-23.02	-13.02
0.429	L1	22.68	9.83	32.51	57.16	47.16	-24.64	-14.64
0.465	L1	27.67	9.85	37.52	56.34	46.34	-18.82	-8.82
0.493	N	27.27	9.85	37.12	56.08	46.08	-18.96	-8.96
0.517	N	25.27	9.84	35.11	56.00	46.00	-20.89	-10.89
0.582	N	26.57	9.84	36.41	56.00	46.00	-19.59	-9.59
0.630	L1	25.26	9.86	35.12	56.00	46.00	-20.88	-10.88
0.672	N	23.43	9.86	33.29	56.00	46.00	-22.71	-12.71
0.796	L1	22.20	9.87	32.07	56.00	46.00	-23.93	-13.93
0.913	L1	18.13	9.87	28.00	56.00	46.00	-28.00	-18.00
1.610	L1	16.76	9.89	26.65	56.00	46.00	-29.35	-19.35

All other emission levels had a test margin of greater than 25 dB.

See graph 2 for the measurement plot.

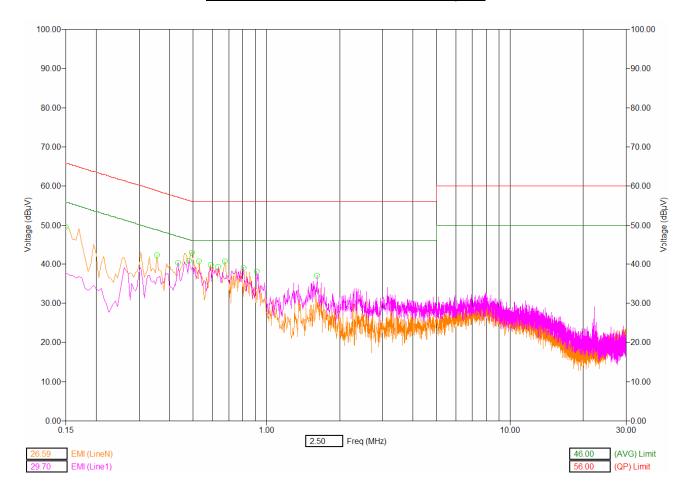
- A division of Research in Motion Limited.

Copyright 2005-2007 Page 12 of 21

This report shall <u>NOT</u> be reproduced except in full without the written consent of RIM Testing Services (RTS)

RTS RIM Testing Services	MI Test Report for the BlackBerry Handheld Model RBP41GW					
Test Report No.	Dates of Test	Author Data				
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow				

AC Conducted Emissions Test Graph 2



Test Configuration 2

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services (RTS)

Copyright 2005-2007 Page 13 of 21

⁻ A division of Research in Motion Limited.

RTS RIM Testing Services	EMI Test Report for the BlackBerry Handheld Model RBP41GW					
Test Report No.	Dates of Test	Author Data				
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow				

AC Conducted Emissions Test Results

The environmental test conditions were: Temperature 23°C

Pressure 1019mb Relative Humidity 22%

Test Configuration 3

FCC CFR 47 Part 15, Subpart B (CISPR 22), IC ICES-003, Class B

Date of test: February 13, 2007

Frequency	Line	Reading (QP)	Correction Factor	Corrected Reading (QP)	Limit (QP)	Limit (AV)	Margin (QP) Limits	Margin (AV) Limits
(MHz)		(dBµV)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)	(dB)
0.151	N	38.69	9.82	48.51	66.00	56.00	-17.49	-7.49
0.151	L1	41.40	9.82	51.22	66.00	56.00	-14.78	-4.78
0.272	L1	33.53	9.86	43.39	61.12	51.12	-17.73	-7.73
0.270	N	31.08	9.85	40.93	60.97	50.97	-20.03	-10.03
0.406	L1	24.86	9.82	34.68	57.65	47.65	-22.96	-12.96
0.408	N	24.51	9.83	34.34	57.55	47.55	-23.21	-13.21
0.558	L1	23.25	9.84	33.09	56.00	46.00	-22.91	-12.91
0.819	L1	18.33	9.87	28.20	56.00	46.00	-27.80	-17.80
2.360	L1	18.00	9.83	27.83	56.00	46.00	-28.17	-18.17
2.400	N	20.98	9.83	30.81	56.00	46.00	-25.19	-15.19
2.472	N	19.25	9.84	29.09	56.00	46.00	-26.91	-16.91
2.653	N	18.48	9.85	28.33	56.00	46.00	-27.67	-17.67

All other emission levels had a test margin of greater than 25 dB.

See graph 3 for the measurement plot.

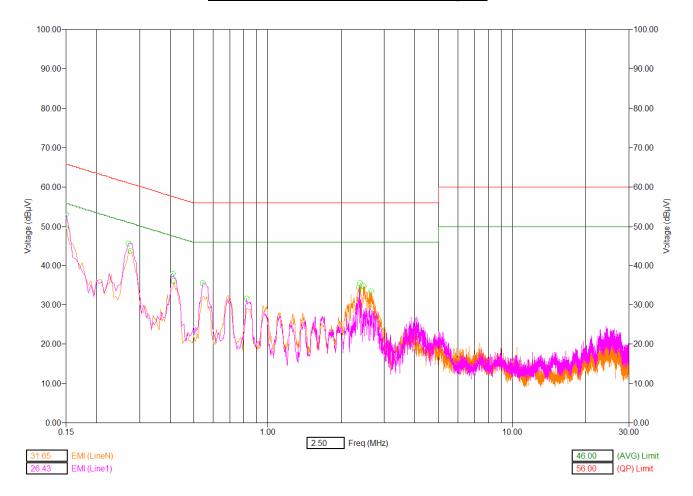
- A division of Research in Motion Limited.

Copyright 2005-2007 Page 14 of 21

This report shall <u>NOT</u> be reproduced except in full without the written consent of RIM Testing Services (RTS)

RTS RIM Testing Services	EMI Test Report for the BlackBerry Handheld Model RBP41GW				
Test Report No.	Dates of Test	Author Data			
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow			

AC Conducted Emissions Test Graph 3



Test Configuration 3

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services (RTS)

- A division of Research in Motion Limited.

Copyright 2005-2007 Page 15 of 21

RTS RIM Testing Services	MI Test Report for the BlackBerry Handheld Model RBP41GW					
Test Report No.	Dates of Test	Author Data				
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow				

APPENDIX 2 - RADIATED EMMISIONS TEST DATA

- A division of Research in Motion Limited. Copyright 2005-2007 Page 16 of 21

RTS RIM Testing Services	MI Test Report for the BlackBerry Handheld Model RBP41GW					
Test Report No.	Dates of Test	Author Data				
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow				

Radiated Emissions Test Results

The environmental test conditions were: Temperature 23°C

Pressure 1011 mb Relative Humidity 22%

Test Configuration 1

FCC CFR 47 Part 15 Subpart B, IC ICES-003 and EN 55022, Class B

Date of test: February 9, 2007

Test Distance was 3.0 metres.

Frequency	An	tenna	Test	Detector	Measured	Correction Factor for	Field Strength Level	Limit @	Test
	Pol.	Height	Angle	(Q.P. or	Level	preamp/antenna / cables/ filter	(reading+corr)	3.0 m	Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
-	-	-	-	-	-	-	-	-	-

All emission levels had a test margin of greater than 25 dB.

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services (RTS)

Copyright 2005-2007 Page 17 of 21

⁻ A division of Research in Motion Limited.

RTS RIM Testing Services	MI Test Report for the BlackBerry Handheld Model RBP41GW				
Test Report No.	Dates of Test	Author Data			
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow			

The environmental test conditions were: Temperature 23°C

Pressure 1008 mb Relative Humidity 22%

Test Configuration 2

FCC CFR 47 Part 15, Subpart B, Class B

Date of test: February 14, 2007

Test Distance was 3.0 metres.

Frequency	An Pol.	tenna Height	Test Angle	Detector	Measured Level	Correction Factor for preamp/antenna / cables/ filter	Field Strength Level (reading+corr)	Limit @ 3.0 m	Test Margin
(MHz)	(V/H)	(metres)	(Deg.)	(Q.P. or Peak)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
40.65	V	2.28	140	QP	48.69	-21.06	27.63	40.00	-12.37
55.75	V	1.42	46	QP	54.99	-22.76	32.23	40.00	-7.77
58.05	V	1.75	352	QP	56.23	-22.79	33.44	40.00	-6.56
58.24	V	1.40	352	QP	57.09	-22.70	34.39	40.00	-5.61
58.66	V	1.44	352	QP	57.38	-22.62	34.76	40.00	-5.24
58.56	V	2.27	352	QP	54.02	-22.57	31.45	40.00	-8.55
59.00	Ι	3.75	284	QP	45.23	-22.49	22.74	40.00	-17.26
109.91	Ι	2.47	273	QP	44.14	-18.45	25.69	43.50	-17.81
110.33	Н	2.93	263	QP	44.57	-18.42	26.15	43.50	-17.35
114.59	Η	2.84	256	QP	46.57	-18.22	28.35	43.50	-15.15
115.09	Н	2.79	276	QP	47.01	-18.20	28.81	43.50	-14.69
121.20	Η	2.95	104	QP	47.10	-18.18	28.92	43.50	-14.58

Copyright 2005-2007 Page 18 of 21

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services (RTS)

⁻ A division of Research in Motion Limited.

RTS RIM Testing Services	EMI Test Report for the BlackBerry Handheld Model RBP4	41GW
Test Report No.	Dates of Test	Author Data
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow

The environmental test conditions were: Temperature 23°C

Pressure 1008 mb Relative Humidity 22%

Test Configuration 3

FCC CFR 47 Part 15, Subpart B, Class B

Date of test: February 8, 2007

Frequency	An Pol.	tenna Height	Test Angle	Detector (Q.P. or	Measured Level	Correction Factor for preamp/antenna / cables/ filter	Field Strength Level (reading+corr)	Limit @ 3.0 m	Test Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
46.79	V	1.43	51	QP	42.65	-22.14	20.51	40.00	-19.49
50.27	V	1.49	340	QP	52.28	-22.58	29.70	40.00	-10.30
50.49	Η	3.17	260	QP	47.58	-22.58	25.00	40.00	-15.00
54.17	Н	3.24	282	QP	46.76	-22.76	24.00	40.00	-16.00
125.49	Н	2.92	95	QP	48.16	-18.18	29.98	43.50	-13.52

All other emission levels had a test margin of greater than 25 dB.

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services (RTS)

Copyright 2005-2007 Page 19 of 21

⁻ A division of Research in Motion Limited.

RTS RIM Testing Services	MI Test Report for the BlackBerry Handheld Model RBP41GW				
Test Report No.	Dates of Test	Author Data			
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow			

The environmental test conditions were: Temperature 23°C

Pressure 1008 mb Relative Humidity 22%

Test Configuration 4

FCC CFR 47 Part 15, Subpart B, Class B

Date of test: February 09, 2007

Frequency	An Pol.	tenna Height	Test Angle	Detector (Q.P. or	Measured Level	Correction Factor for preamp/antenna / cables/ filter	Field Strength Level (reading+corr)	Limit @ 3.0 m	Test Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
38.90	V	1.40	231	QP	54.07	-20.55	33.52	40.00	-6.48
49.90	>	2.72	103	QP	46.06	-22.57	23.49	40.00	-16.51
50.24	Η	3.94	181	QP	56.38	-22.58	33.80	40.00	-6.20
106.74	Ι	1.86	105	QP	38.44	-18.85	19.59	43.50	-23.91
604.11	٧	1.83	79	QP	39.88	-4.73	35.15	46.00	-10.85
704.27	Ι	1.22	99	QP	41.43	-3.30	38.13	46.00	-7.87
704.23	V	1.40	353	QP	41.92	-3.30	38.62	46.00	-7.38

All other emission levels had a test margin of greater than 25 dB.

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services (RTS)

Copyright 2005-2007 Page 20 of 21

⁻ A division of Research in Motion Limited.

RTS	EMI Test Report for the BlackBerry Handheld Model RBP41GW						
RIM Testing Services							
Test Report No.	Dates of Test	Author Data					
RTS-0628-0702-11	February 8 to 14, 2007	K. Chow					

The environmental test conditions were: Temperature 23°C

Pressure 1008 mb Relative Humidity 22%

Test Configuration 5

FCC CFR 47 Part 15, Subpart B, Class B

Date of test: February 09, 2007

Frequency	Frequency Antenna	Test	Detector Measure			Field Strength Level	Limit @	Test	
squssj	Pol.	Height	Angle	(Q.P. or	Level	preamp/antenna / cables/ filter	(reading+corr)	3.0 m	Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
-	-	-	ı	ı	-	-	-	-	-

All other emission levels had a test margin of greater than 25 dB.

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services (RTS)

Copyright 2005-2007 Page 21 of 21

⁻ A division of Research in Motion Limited.