

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



A division of Research In Motion Limited

REPORT NO.: RTS-2337-1004-32

PRODUCT MODEL NO.: RCY71UW
TYPE NAME: BlackBerry® smartphone
FCC ID: L6ARCY70UW
IC: 2503A-RCY70UW

DATE: April 07, 2010

RIM Testing Services®	EMI Test Report for the BlackBerry® smartphone Model RCY71UW	
Test Report No. RTS-2337-1004-32	Dates of Test March 17 to March 25, 2010.	Author Data Kevin Rose

Statement of Performance:

The BlackBerry® smartphone, model RCY71UW, part number CER-30957-001 Rev. 2 and accessories when configured and operated per RIM's operation instructions, and 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 Rose
Regulatory Compliance Specialist
Date: 09 April 2010

Reviewed by:



Fahd Faisal
Regulatory Compliance Associate
Date: 09 April 2010

Reviewed and Approved by:



Masud S. Attayi, P.Eng.
Manager, Regulatory Compliance
Date: 18 April 2010

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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, October 01, 2009 Class B Digital Devices, Unintentional Radiators
- IC ICES-003 Issue 4, February 2004, Class B Digital Devices, Unintentional Radiators

B. Associated Documents

None

C. Product Identification

Manufactured by Research In Motion Limited whose headquarters is 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 following locations:

RIM Testing Services EMI test facilities
305 Phillip Street
Waterloo, Ontario
Canada, N2L 3W8
Phone: 519 888 7465
Fax: 519 888 6906

440 Phillip Street
Waterloo, Ontario
Canada, N2L 5R9
Phone: 519 888 7465
Fax: 519 888 6906

The testing was performed from March 17 to March 25, 2010.

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The sample EUT included:

SAMPLE	MODEL	CER NUMBER	PIN	Software
1	RCY71UW	CER-30957-001 Rev 2	21FDF04C	V6.0.0.6 (Platform 6.0.0.10) Bundle 17
2	RCY71UW	CER-30957-001 Rev 2	21FDD041	V6.0.0.6 (Platform 6.0.0.10) Bundle 17

Radiated Emissions testing was performed on sample 1
AC conducted testing was performed on sample 2.

BlackBerry® smartphone Accessories Tested

- 1) Folding Blade Charger, part number HDW-17955-001 with an output voltage of 5.0 volts dc, 700 mA and attached USB cable with a lead length of 1.80 metres.
- 2) Captive Cable Charger, part number HDW-17957-003 with an output voltage of 5.0 volts dc, 700 mA and attached USB cable with a lead length of 1.80 metres.
- 3) Fixed Blade Charger, part number HDW-24481-001 (model number RIM-C-4ADUUS-001), with an output voltage of 5.0 volts dc.
- 4) Sync Pod, part number HDW-14396-013
- 5) Alternate Fixed Blade Charger, part number HDW-24481-001, (model number PSM04A-050QRIM-R), with an output voltage of 5.0 volts dc.
- 6) BlackBerry® Remote Stereo Gateway, part number HDW-16007-001.
- 7) USB Y-Cable, part number HDW-19137-002, lead lengths of 26 cm and 11 cm.
- 8) Alternate Stereo Headset, part number HDW-24529-001, with a lead length of 1.1 metres
- 9) Stereo Headset, part number HDW-14322-003 with a lead length of 1.3 metres.
- 10) Premium Stereo Headset, part number HDW-15766-005, 1.3 metres long.
- 11) USB Data Cable, part number HDW-06610-013, 0.30 metres long.
- 12) USB Data Cable, part number HDW-06610-009, 1.00 metre long.
- 13) USB Data Cable, part number HDW-06610-005, 1.50 metres long.
- 14) Alternate USB Cable, part number HDW-06610-009, model number AWM 2725, 1.00 metre long.
- 15) Bluetooth Headset, part number HDW-23439-001,

D. Support Equipment Used for the Testing of the EUT

- 1) IBM Thinkpad Lenovo T60p laptop, type 8742-C2U, product ID 8742C2U

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E. Summary of Results

SPECIFICATION		TEST TYPE	Meets Requirement	Test Data APPENDIX
FCC CFR 47	IC			
Part 15, Subpart B	ICES-003	Conducted AC Line Emission	Yes	1
Part 15, Subpart B	ICES-003	Radiated Unintentional Spurious Emissions	Yes	2

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a) AC 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.

BlackBerry® smartphone was in battery charging mode. The input voltage was 120 V, 60 Hz.

The following test configurations were measured:

1. The BlackBerry® smartphone, in GSM850 idle mode and Audio playback mode with the Stereo Headset attached was connected to Folding Blade Charger.
2. The BlackBerry® smartphone, in PCS 1900 idle mode with the Premium Stereo Headset attached was connected to Alternate Stereo Headset Charger via 1.0m USB Cable
3. The BlackBerry® smartphone, in UMTS Band 2 idle mode with the Alternate Stereo Headset attached was connected to Fixed Blade Charger via the Alternate 1 metre USB cable.
4. The BlackBerry® smartphone, in GSM850 idle mode and Audio playback mode while communicating with the Bluetooth Headset, was connected to Fixed Blade Charger via the Alternate 1.0m USB cable.

The sample EUT's conducted emissions were compared with respect to the FCC CFR 47 Part 15, Subpart B, and IC ICES-003, Class B limit. The sample EUT had a worse case test margin of 15.43 dB below the QP limit at 0.150 MHz using the quasi-peak detector, Test Configuration 2.

Measurement Uncertainty ± 3.0 dB

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

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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 5.0 GHz. Both the horizontal and vertical polarizations of the emissions were measured.

The measurements were done in a semi-anechoic chamber. The FCC registration number is **778487** and the Industry Canada(IC) file number is **2503B-1**. The EUT was configured and operated to produce the maximum radiated emissions while still keeping within RIM's specifications.

The BlackBerry® smartphone was in battery charging mode for all configurations. The ac input voltage was 120V, 60Hz.

The following test configurations were measured:

1. The BlackBerry® smartphone, in GSM850 idle mode with the Stereo Headset attached was connected to the Folding Blade Charger.
2. The BlackBerry® smartphone, in GSM 850 idle mode with the Premium Stereo Headset attached, was connected to the Laptop in High Speed USB mode via the 1.0m USB Cable.
3. The BlackBerry® smartphone, in UMTS Band 2 idle mode and communicating with the Visor Mount, was connected to the Fixed Blade Charger via the 1.5m USB cable.
4. The BlackBerry® smartphone, in UMTS Band 5 idle mode with the Stereo Headset attached, was connected to the Fixed Blade Charger via the 1.5m USB cable.
5. The BlackBerry® smartphone, in UMTS Band 2 idle mode and communicating with the Bluetooth Headset, was placed in the Sync Pod which was connected to the Folding Blade Charger.
6. The BlackBerry® smartphone, in PCS 1900 idle mode was connected in parallel to the to the BlackBerry® Remote Stereo Gateway via the USB Y-Cable. The USB Y-Cable was connected to the Laptop via the 1.0m USB cable.
7. The BlackBerry® smartphone, in Bluetooth TX mode with the Stereo Headset attached, was connected to the Captive Cable Charger.
8. The BlackBerry® smartphone, in 802.11b TX mode with the Premium Stereo Headset attached, was connected to the Folding Blade Charger.

The system's radiated emission levels were compared with respect to the FCC CFR 47 Part 15, Subpart B, and IC ICES-003, Class B limit.

The system met the requirements with a worse case emission test margin of 7.81 dB at 50.800 MHz using Test Configuration 3.

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Sample Calculation:

Field Strength (dB μ V/m) is calculated as follows:

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

Measurement Uncertainty ± 4.6 dB

To view the test data see APPENDIX 2.

F. Compliance Test Equipment Used

<u>UNIT</u>	<u>MANUFACTURER</u>	<u>MODEL</u>	<u>SERIAL NUMBER</u>	<u>CAL DUE DATE</u> (YY MM DD)	<u>USE</u>
Preamplifier	Sonoma	310N/11909A	185831	10-11-14	Radiated Emissions
Preamplifier system	TDK RF Solutions	PA-02	080010	10-11-06	Radiated Emissions
EMC Analyzer	Rohde & Schwarz	ESIB 40	3942A00517	10-11-30	Radiated Emissions
Digital Multimeter	Hewlett Packard	34401A	US36042324	10-10-08	Conducted/Radiated Emissions
Environment Monitor	Control Company	1870	230355190	11-01-08	Radiated Emissions
Environment Monitor	Control Company	1870	80117164	11-01-08	Conducted/Radiated Emissions
L.I.S.N.	Rohde & Schwarz	ENV216	100060	10-04-21	Conducted Emissions
Hybrid Log Antenna	EMC Automation	HLP-3003C	017401	10-09-11	Radiated Emissions
Horn Antenna	EMC Automation	HRN-0118	030101	10-07-22	Radiated Emissions
Universal Radio Communication Tester	Rohde & Schwarz	CMU 200	837493/073	10-11-30	Radiated Emissions
Universal Radio Communication Tester	Rohde & Schwarz	CMU 200	112394	10-11-30	Radiated/Conducted Emissions
EMI Test Receiver	Rohde & Schwarz	ESU 40	100162	10-04-22	Radiated/Conducted Emissions
Bluetooth Tester	Rohde & Schwarz	CBT	100368	10-11-26	Radiated Emissions
Bluetooth Tester	Rohde & Schwarz	CBT	100370	10-11-30	Radiated/Conducted Emissions

APPENDIX 1 - AC CONDUCTED EMISSIONS TEST DATA

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AC Conducted Emissions Test Results

The following tests were performed by Heng Lin.

Test Configuration 1

Date of the test: March 17, 2010

The environmental conditions were: Temperature: 23 °C
Pressure: 1019 mb
Humidity: 27 %

Frequency (MHz)	Line	Reading (QP) (dB μ V)	Correction Factor (dB)	Corrected Reading (QP) (dB)	Limit (QP) (dB μ V)	Limit (AV) (dB μ V)	Margin (QP) Limits (dB)
0.402	L1	31.39	10.01	41.40	57.81	47.81	-16.41
0.411	N	29.09	10.01	39.10	57.63	47.63	-18.53
0.528	L1	27.90	9.89	37.80	56.00	46.00	-18.20
0.533	N	28.37	9.90	38.27	56.00	46.00	-17.73
0.744	L1	27.23	9.83	37.06	56.00	46.00	-18.94
0.960	L1	27.00	9.81	36.80	56.00	46.00	-19.20
4.997	N	22.04	9.91	31.95	56.00	46.00	-24.05
8.894	N	28.20	9.99	38.18	60.00	50.00	-21.82
9.402	L1	30.37	9.97	40.34	60.00	50.00	-19.66
9.407	N	28.37	9.98	38.35	60.00	50.00	-21.65
9.902	N	28.14	9.98	38.11	60.00	50.00	-21.89
10.032	L1	29.94	9.97	39.91	60.00	50.00	-20.09
10.037	N	28.18	9.98	38.15	60.00	50.00	-21.85
10.635	L1	29.58	9.97	39.55	60.00	50.00	-20.45

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

Measurements were done with the quasi-peak detector. See figure 1-1 and figure 1-2 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

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AC Conducted Emissions Test Graphs

Test Configuration 1

Figure 1-1: L1 lines

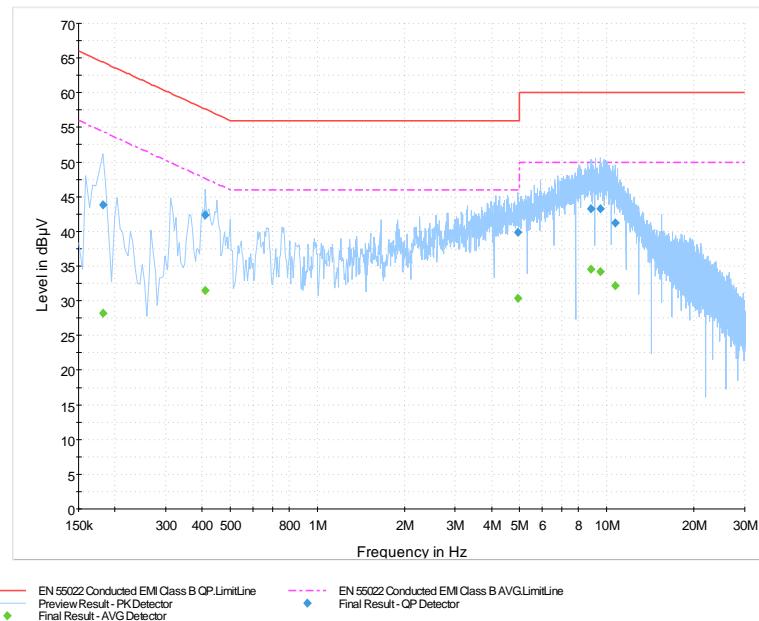
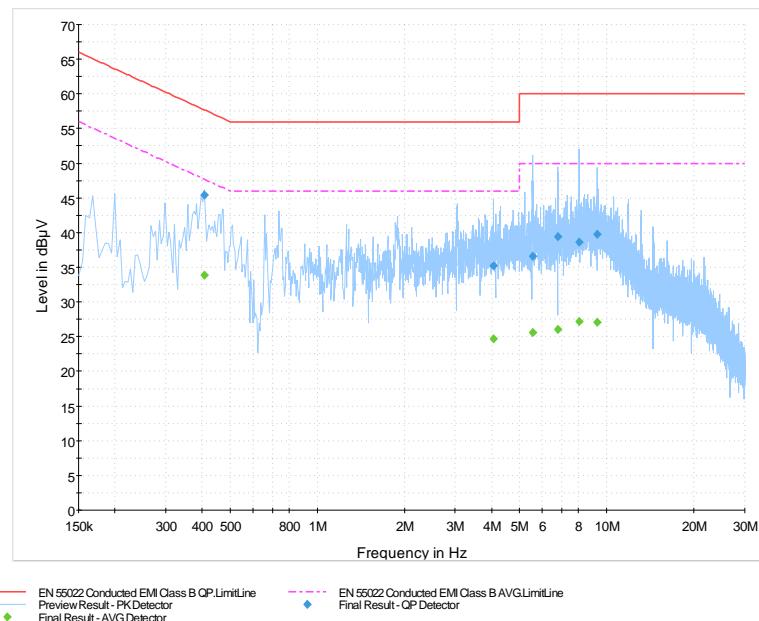


Figure 1-2: N Lines



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AC Conducted Emissions Test Results cont'd

Test Configuration 2

Date of the test: March 17, 2010

The environmental conditions were: Temperature: 23 °C
Pressure: 1019 mb
Humidity: 27%

Frequency (MHz)	Line	Reading (QP) (dB μ V)	Correction Factor (dB)	Corrected Reading (QP) (dB)	Limit (QP) (dB μ V)	Limit (AV) (dB μ V)	Margin (QP) Limits (dB)
0.150	L1	39.37	11.20	50.57	66.00	56.00	-15.43
0.177	N	29.15	11.05	40.20	64.63	54.63	-24.43
0.254	L1	27.59	10.48	38.07	61.64	51.64	-23.57
0.596	L1	26.42	9.86	36.28	56.00	46.00	-19.72
0.830	L1	23.59	9.82	33.40	56.00	46.00	-22.60
1.356	L1	23.31	9.80	33.12	56.00	46.00	-22.89

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

Measurements were done with the quasi-peak detector.

See figure 1-3 and figure 1-4 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

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AC Conducted Emissions Test Graphs

Test Configuration 2

Figure 1-3: L1 lines

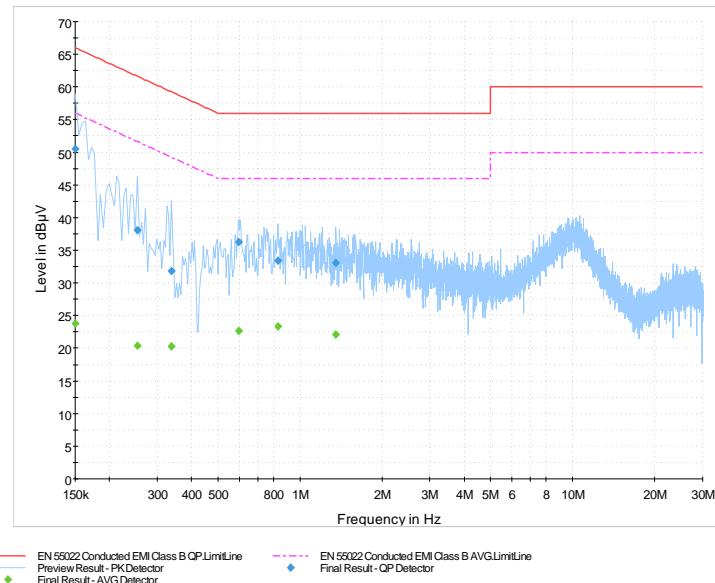
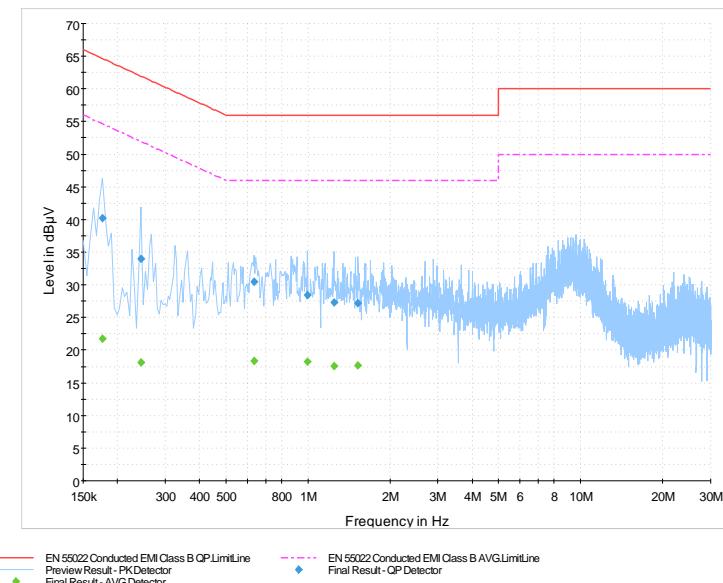


Figure 1-4: N Lines



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AC Conducted Emissions Test Results cont'd

Test Configuration 3

Date of the test: March 17, 2010

The environmental conditions were: Temperature: 23 °C
Pressure: 1019 mb
Humidity: 27 %

Frequency (MHz)	Line	Reading (QP) (dB μ V)	Correction Factor (dB)	Corrected Reading (QP) (dB)	Limit (QP) (dB μ V)	Limit (AV) (dB μ V)	Margin (QP) Limits (dB)
0.150	N	34.39	11.23	45.63	66.00	56.00	-20.37
0.155	L1	30.75	11.17	41.93	65.75	55.75	-23.83
0.587	L1	27.17	9.86	37.03	56.00	46.00	-18.97
0.753	L1	27.39	9.82	37.21	56.00	46.00	-18.79
0.929	L1	25.23	9.81	35.04	56.00	46.00	-20.97
1.140	L1	22.60	9.80	32.41	56.00	46.00	-23.60

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

Measurements were done with the quasi-peak detector.

See figure 1-5 and figure 1-6 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

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AC Conducted Emissions Test Graphs

Test Configuration 3

Figure 1-5: L1 lines

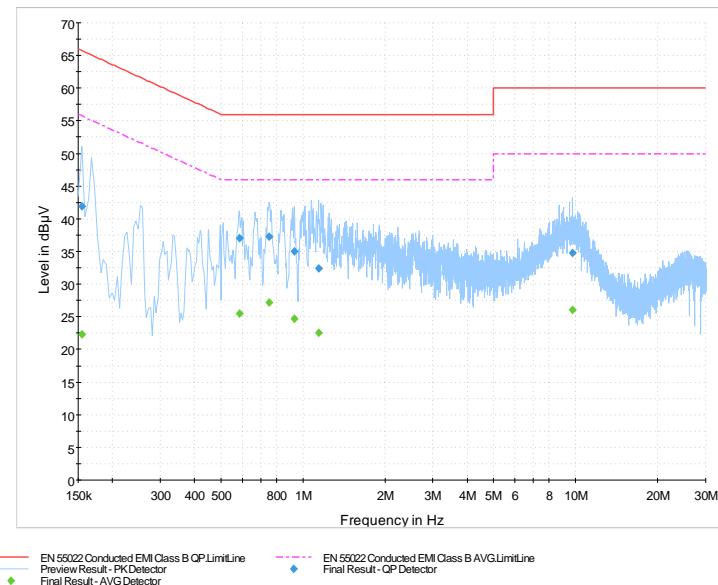
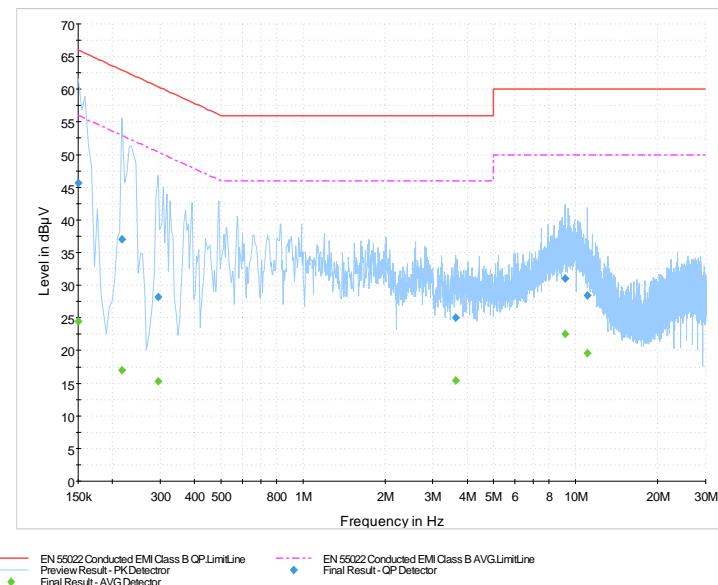


Figure 1-6: N Lines



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AC Conducted Emissions Test Results cont'd

Test Configuration 4

Date of the test: March 25, 2010

The environmental conditions were: Temperature: 26 °C
Pressure: 1017 mb
Humidity: 24 %

Frequency (MHz)	Line	Reading (QP) (dB μ V)	Correction Factor (dB)	Corrected Reading (QP) (dB)	Limit (QP) (dB μ V)	Limit (AV) (dB μ V)	Margin (QP) Limits (dB)
0.159	N	30.09	11.17	41.26	65.52	55.52	-24.25
0.182	L1	30.41	10.99	41.40	64.42	54.42	-23.02
2.463	L1	22.58	9.85	32.43	56.00	46.00	-23.57
3.453	L1	23.44	9.89	33.33	56.00	46.00	-22.67
3.674	L1	24.32	9.89	34.21	56.00	46.00	-21.79
4.043	L1	24.51	9.90	34.41	56.00	46.00	-21.59
4.533	N	23.03	9.91	32.94	56.00	46.00	-23.06

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

Measurements were done with the quasi-peak detector.

See figure 1-7 and figure 1-8 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

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AC Conducted Emissions Test Graphs

Test Configuration 4

Figure 1-7: L1 lines

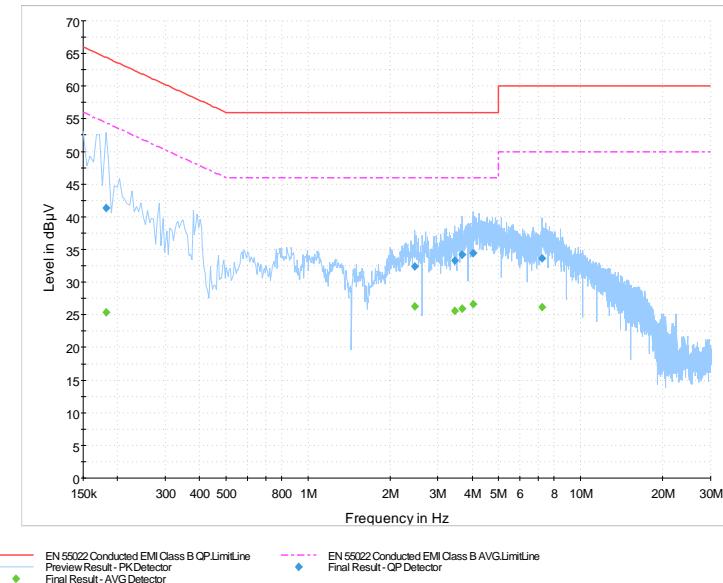
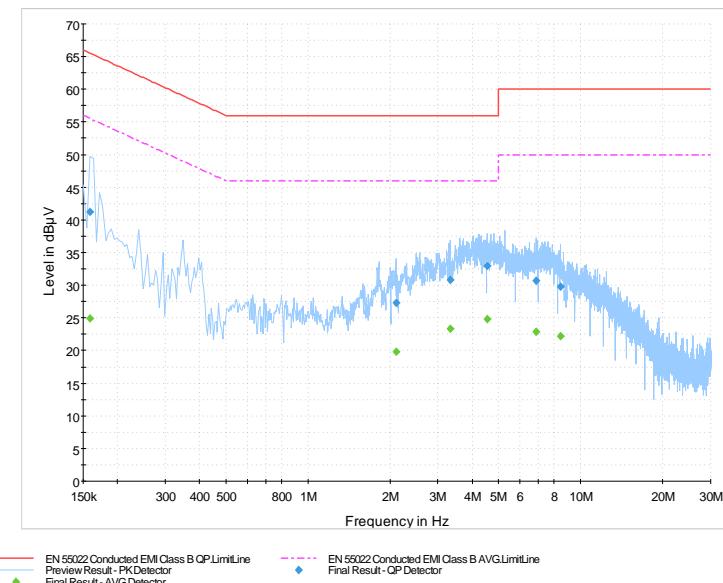


Figure 1-8: N Lines



APPENDIX 2 - RADIATED EMISSIONS TEST DATA

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Radiated Emissions Test Results

The following tests were performed by Fahd Faisal

Test Configuration 1

Date of the test: March 19, 2010

The environmental conditions were: Temperature: 21 °C
Pressure: 1003 mb
Humidity: 24 %

Frequency (MHz)	Antenna		Test Angle (Deg.)	Detector (Q.P. or Peak)	Measured Level (dB μ V)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading +corr) (dB μ V/m)	Limit @ 3.0 m (dB μ V/m)	Test Margin (dB)
	Pol. (V/H)	Height (metres)							
52.300	V	1.4	152	Q.P.	48.55	-22.98	25.57	40.00	-14.43
65.800	V	1.4	354	Q.P.	45.97	-22.57	23.4	40.00	-16.60
120.400	H	3.26	354	Q.P.	37.31	-18.54	18.77	43.00	-24.73
159.100	V	1.4	74	Q.P.	42.22	-19.26	22.96	43.50	-20.54
256.800	V	1.4	341	Q.P.	39.22	-16.15	23.07	46.00	-22.93
359.050	H	2.68	160	Q.P.	39.93	-12.65	27.28	46.00	-18.72
372.600	H	2.3	162	Q.P.	37.5	-12.74	24.76	46.00	-21.24

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

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Radiated Emissions Test Results cont'd

Test Configuration 2

Date of the test: March 23, 2010

The environmental conditions were: Temperature: 23 °C
Pressure: 1001 mb
Humidity: 23 %

Frequency (MHz)	Antenna		Test Angle (Deg.)	Detector (Q.P. or Peak)	Measured Level (dB μ V)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading +corr) (dB μ V/m)	Limit @ 3.0 m (dB μ V/m)	Test Margin (dB)
	Pol. (V/H)	Height (metres)							
49.200	V	1.4	28	Q.P.	53.37	-22.74	30.63	40.00	-9.37
216.000	H	1	266	Q.P.	50.49	-16.17	34.32	43.50	-9.18
240.000	H	1	354	Q.P.	54.8	-17.11	37.69	46.00	-8.31
307.100	H	1.02	98	Q.P.	37.83	-13.96	23.87	46.00	-22.13
366.500	H	1	296	Q.P.	38.26	-12.82	25.44	46.00	-20.56
720.000	H	1	354	Q.P.	37.48	-3.94	33.54	46.00	-12.46

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

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Radiated Emissions Test Results cont'd

Test Configuration 3

Date of the test: March 23, 2010

The environmental conditions were: Temperature: 24 °C
Pressure: 1006 mb
Humidity: 21 %

Frequency (MHz)	Antenna		Test Angle (Deg.)	Detector (Q.P. or Peak)	Measured Level (dB μ V)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading+c orr) (dB μ V/m)	Limit @ 3.0 m (dB μ V/m)	Test Margin (dB)
	Pol. (V/H)	Height (metres)							
50.800	V	3.74	81	Q.P.	48.12	-22.89	25.23	40.00	-7.81
52.800	V	1.4	177	Q.P.	55.09	-22.9	32.19	40.00	-14.77
143.000	H	2.21	207	Q.P.	42.67	-19.16	23.51	43.50	-19.99
143.000	V	2.14	236	Q.P.	38.55	-19.16	19.39	43.50	-24.11
199.850	H	2.34	209	Q.P.	39.13	-15.87	23.26	43.50	-20.24
259.050	H	1	87	Q.P.	41.93	-15.92	26.01	46.00	-19.99

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

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Radiated Emissions Test Results cont'd

Test Configuration 4

Date of test: March 23, 2010

The environmental conditions were: Temperature: 24 °C
Pressure: 1006 mb
Humidity: 21 %

Frequency (MHz)	Antenna		Test Angle (Deg.)	Detector (Q.P. or Peak)	Measured Level (dB μ V)	Correction Factor for preampl/antenna / cables/ filter (dB/m)	Field Strength Level (reading+c orr) (dB μ V/m)	Limit @ 3.0 m (dB μ V/m)	Test Margin (dB)
	Pol. (V/H)	Height (metres)							
36.350	V	1.49	40.00	Q.P.	49.15	-20.31	28.84	40.00	-11.16
51.900	H	1.63	221.00	Q.P.	41.97	-23.04	18.93	40.00	-21.07
54.450	V	1.42	88.00	Q.P.	48.85	-23.06	25.79	40.00	-14.21
127.300	H	1.76	354.00	Q.P.	43.65	-18.84	24.81	43.50	-18.69
145.450	H	1.78	182.00	Q.P.	40.92	-19.11	21.81	43.50	-21.69
213.450	H	1.49	325.00	Q.P.	43.85	-16.01	27.84	43.50	-15.66
215.700	H	1.57	326.00	Q.P.	41.24	-16.20	25.04	43.50	-18.46
295.300	V	1.79	22.00	Q.P.	40.23	-15.44	24.79	46.00	-21.21

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

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Radiated Emissions Test Results cont'd

Test Configuration 5

Date of the test: March 23, 2010

The environmental conditions were: Temperature: 26 °C
Pressure: 1017 mb
Humidity: 20 %

Frequency (MHz)	Antenna		Test Angle (Deg.)	Detector (Q.P. or Peak)	Measured Level (dB μ V)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading+c orr) (dB μ V/m)	Limit @ 3.0 m (dB μ V/m)	Test Margin (dB)
	Pol. (V/H)	Height (metres)							
54.150	V	1.76	159.00	Q.P.	38.84	-23.13	15.71	40.00	-24.29
204.600	V	1.43	12.00	Q.P.	38.04	-15.40	22.64	43.50	-20.86
218.050	V	1.46	296.00	Q.P.	44.84	-16.40	28.44	46.00	-17.56
345.050	V	1.41	252.00	Q.P.	40.11	-10.25	29.86	46.00	-16.14
347.350	H	1.05	168.00	Q.P.	41.35	-10.53	30.82	46.00	-15.18
349.050	H	1.11	187.00	Q.P.	37.34	-10.72	26.62	46.00	-19.38

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

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Radiated Emissions Test Results cont'd

Test Configuration 6

Date of the test: March 25, 2010

The environmental conditions were: Temperature: 23 °C
Pressure: 1010 mb
Humidity: 23 %

Frequency (MHz)	Antenna		Test Angle (Deg.)	Detector (Q.P. or Peak)	Measured Level (dB μ V)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading+c orr) (dB μ V/m)	Limit @ 3.0 m (dB μ V/m)	Test Margin (dB)
	Pol. (V/H)	Height (metres)							
42.600	V	3.48	244	Q.P.	38.16	-21.74	16.42	40.00	-23.58
61.300	V	3.55	115	Q.P.	39.4	-22.82	16.58	40.00	-23.42
73.450	V	3.39	64	Q.P.	40.25	-21.85	18.4	40.00	-21.60
122.050	H	3.49	221	Q.P.	42.61	-18.6	24.01	43.50	-19.49
166.600	H	1.13	152	Q.P.	39.34	-18.92	20.42	43.50	-23.08
205.850	H	2.25	312	Q.P.	43.87	-15.39	28.48	43.50	-15.02
210.550	V	2.69	289	Q.P.	39.86	-15.72	24.14	43.50	-19.36
243.800	H	1.21	274	Q.P.	41.85	-17.05	24.8	46.00	-21.20
298.700	H	1.23	69	Q.P.	38.4	-14.82	23.58	46.00	-22.42
366.400	H	1	282	Q.P.	40.05	-12.81	27.24	46.00	-18.76
425.800	V	2.07	55	Q.P.	38.09	-10.58	27.51	46.00	-18.49
426.150	H	2.21	321	Q.P.	36.43	-10.6	25.83	46.00	-20.17
428.700	V	3.26	55	Q.P.	33.92	-10.73	23.19	46.00	-22.81
428.750	H	2.2	331	Q.P.	36.56	-10.73	25.83	46.00	-20.17
499.850	H	1.56	200	Q.P.	32.15	-9.12	23.03	46.00	-22.97
864.000	H	2.22	133	Q.P.	33.22	-1.23	31.99	46.00	-14.01
864.050	V	2.04	39	Q.P.	36.37	-1.23	35.14	46.00	-10.86
951.600	V	3.21	185	Q.P.	25.11	-1.18	23.93	46.00	-22.07
995.850	V	1.97	354	Q.P.	31.28	-0.70	30.58	54.00	-23.42

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

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Radiated Emissions Test Results cont'd

Test Configuration 7

Date of the test: March 25, 2010

The environmental conditions were: Temperature: 24 °C
Pressure: 1006 mb
Humidity: 21 %

Frequency (MHz)	Antenna		Test Angle (Deg.)	Detector (Q.P. or Peak)	Measured Level (dB μ V)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading+c orr) (dB μ V/m)	Limit @ 3.0 m (dB μ V/m)	Test Margin (dB)
	Pol. (V/H)	Height (metres)							
208.250	V	1.4	11	Q.P.	47.32	-15.59	31.73	43.50	-11.77
262.950	H	1.2	37	Q.P.	49.94	-15.96	33.98	46.00	-12.02
382.000	H	1.01	40	Q.P.	43.93	-12.31	31.62	46.00	-14.38
253.950	H	1.12	210	Q.P.	47.04	-16.5	30.54	46.00	-15.46
258.350	V	1.8	297	Q.P.	46.36	-16.02	30.34	46.00	-15.66
210.600	H	1.13	146	Q.P.	41.69	-15.78	25.91	43.50	-17.59
169.200	H	1.85	175	Q.P.	44.46	-18.98	25.48	43.50	-18.02
370.550	H	1.12	12	Q.P.	39.02	-12.9	26.12	46.00	-19.88
51.700	V	1.8	294	Q.P.	40.2	-23.01	17.19	40.00	-22.81

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

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Radiated Emissions Test Results cont'd

Test Configuration: 8

Date of the test: March 25, 2010

The environmental conditions were: Temperature: 24 C

Pressure: 1006mb

Humidity: 21%

Frequency (MHz)	Antenna		Test Angle (Deg.)	Detector (Q.P. or Peak)	Measured Level (dB μ V)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading+c orr) (dB μ V/m)	Limit @ 3.0 m (dB μ V/m)	Test Margin (dB)
	Pol. (V/H)	Height (metres)							
50.150	V	1.49	120.00	Q.P.	49.46	-21.25	28.21	40.00	-11.79
347.950	V	1.47	238.00	Q.P.	40.04	-8.81	31.23	46.00	-14.77
202.250	V	1.40	233.00	Q.P.	41.79	-13.85	27.94	43.50	-15.56
347.600	H	1.00	188.00	Q.P.	38.91	-8.76	30.15	46.00	-15.85
218.250	V	1.42	352.00	Q.P.	44.31	-14.62	29.69	46.00	-16.31
243.200	H	1.15	225.00	Q.P.	41.04	-15.31	25.73	46.00	-20.27
429.750	H	1.56	49.00	Q.P.	27.78	-8.93	18.85	46.00	-27.15

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