EMC Test Report

Tested in accordance with
Federal Communications Commission (FCC)
Personal Communications Services
CFR 47, Parts 15.107, 15.109
&
Industry Canada (IC), ICES-003

**** BlackBerry

REPORT NO.: RTS-6066-1509-05C

PRODUCT MODEL NO.: RHK211LW (STV100-1), RHT181LW (STV100-2)

TYPE NAME: BlackBerry® smartphone

FCC ID: L6ARHK210LW, L6ARHT180LW

IC: 2503A-RHK210LW

DATE: November 6, 2015

RTS is accredited according to EN ISO/IEC 17025 by:



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≅ BlackBerry.	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHT181LW (STV100-2)	
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW

Statement of Performance:

The BlackBerry® smartphone, model RHK211LW (STV100-1), part number CER-62541-001 Rev4-x06-01 and accessories when configured and operated per BlackBerry's operation instructions, performs within the requirements of the test standards.

The BlackBerry® smartphone, model RHT181LW (STV100-2), part number CER-62544-001 Rev2-x08-01 and accessories when configured and operated per BlackBerry's operation instructions, performs within the requirements of the test standards

Declaration:

We hereby certify that:

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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.

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Documented by:	Reviewed by:
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Reviewed and Approved by:	
Masud S. Attayi, P.Eng.	
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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, 2014 Class B Digital Devices, Unintentional Radiators
- IC ICES-003 Issue 5, August 2012, Information Technology Equipment (ITE) Limits and methods of measurement

B. Associated Documents

- 1) RHK211LW-R149-HW_CER-62541-001 Rev3-x06-02
- 2) RHK211LW-R149-HW CER-62541-001 Rev4-x06-01
- RHT181LW-R162-HW_CER-62544-001 Rev2-x08-01
- 4) MultiSourceDeclaration_R149_AAC056_upto_AAC273
- 5) MultiSourceDeclaration_R149_AAC273_upto_AAC380
- 6) MultiSourceDeclaration_R149_AAC380_upto_AAC396
- 7) Test Report RTS-6066-1509-05
- 8) BlackBerrySystemSimilarity_RHK211LW_RHT181LW

C. Product Identification

Manufactured by BlackBerry Limited whose headquarter is located at:

2200 University Ave. East Waterloo, Ontario Canada, N2K 0A7

Phone: 519 888 7465 Fax: 519 888 6906

The equipment under test (EUT) was tested at the following locations:

BlackBerry RTS EMC test facilities:

 305 Phillip Street
 440 Phillip Street

 Waterloo, Ontario
 Waterloo, Ontario

 Canada, N2L 3W8
 Canada, N2L 5R9

 Phone:
 519 888 7465

 Fax:
 519 888 6906

 Fax:
 519 888 6906

The testing was performed from July 22 to October 27 and November 06, 2015.

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The sample EUT included:

SAMPLE	MODEL	HARDWARE	IMEI	Software
1	RHK211LW (STV100-1)	CER-62541-001 Rev3-x06-01	004402243071358	Software Build: AAC056
2	RHK211LW (STV100-1)	CER-62541-001 Rev3-x06-01	004402243071390	Software Build: AAC056
3	RHK211LW (STV100-1)	CER-62541-001 Rev3-x06-01	004402243070640	Software Build: AAC056
4	RHK211LW (STV100-1)	CER-62541-001 Rev4-x06-01	004402243079534	Software Build: AAC273
5	RHK211LW (STV100-1)	CER-62541-001 Rev4-x06-01	004402243079500	Software Build: AAC346
6	RHK211LW (STV100-1)	CER-62541-001 Rev4-x06-01	004402243079518	Software Build: AAC396
7	RHT181LW (STV100-2)	CER-62544-001 Rev1-x08-00	990004319918581	Software Build: AAC684
8	RHT181LW (STV100-2)	CER-62544-001 Rev1-x08-00	990004319918599	Software Build: AAC684
9	RHT181LW (STV100-2)	CER-62544-001 Rev1-x08-00	990004319918755	Software Build: AAC684
10	RHT181LW (STV100-2)	CER-62544-001 Rev2-x08-01	990004319918961	Software Build: AAC684

AC Powerline conducted testing was performed on samples 4, 6, 7 and 8. Radiated Emissions testing was performed on samples 1, 2, 3, 5, 6, 7, 8, 9 and 10.

The characteristics that may have been affected by the changes from Rev3-x06-01 to Rev4-x06-01 for RHK211LW were verified/re-tested when necessary. For more details, refer to RHK211LW-R149-HW CER-62541-001 - Rev3-x06-02, and RHK211LW-R149-HW CER-62541-001 - Rev4-x06-01.

To view the differences between software builds AAC056 to AAC396 for RHK211LW, see document MultiSourceDeclaration R149 AAC056 upto AAC273, MultiSourceDeclaration_R149_AAC273_upto_AAC380, and MultiSourceDeclaration_R149_AAC380_upto_AAC396.

The characteristics that may have been affected by the changes from RHK211LW to RHT181LW were verified/re-tested when necessary. For more details, refer to BlackBerrySystemSimilarity RHK211LW RHT181LW

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The characteristics that may have been affected by the changes from Rev1-x08-00 to Rev2-x09-00 for RHT181LW were verified/re-tested when necessary.

For more details, refer to RHT181LW-R162-HW_CER-62544-001 – Rev2-x08-01.

BlackBerry® smartphone Accessories Tested

- 1) Fixed Blade Charger, part number HDW-58920-001 with an output voltage of 5.0 volts dc, 1300mA
- 2) Alt.1 Fixed Blade Charger, Energy Efficient, part number HDW-58920-001 Rev4 with an output voltage of 5.0 volts dc, 1300mA
- Headset, part number HDW-49299-001, with a lead length of 1.1 metres
- 4) Alt.1 Headset, part number HDW-61938-001, revB with a lead length of 1.1 metres
- 5) Alt.2 Headset, part number 1060399, with a lead length of 1.1 metres
- 6) Alt.3 Headset, part number 1014826, with a lead length of 1.1 metres
- 7) Alt.4 Headset, part number HDW-61938-001, revB3 with a lead length of 1.1 metres
- 8) Alt.5 Headset, part number HDW-61938-001, revD with a lead length of 1.1 metres
- 9) USB Data Cable, part number HDW-50071-001, 0.9 metres long
- 10) Alt.1 USB Data Cable, part number HDW-51800-001, 0.9 metres long
- 11) Alt.2 USB Data Cable, part number HDW-50071-002, 1.2 metres long
- 12) Alt.3 USB Data Cable, part number HDW-51800-002, 1.2 metres long
- 13) Alt.4 USB Data Cable, part number HDW-62449-002, 1.2 metres long

D. Support Equipment Used for the Testing of the EUT

- 1) Lenovo Thinkpad laptop, type 4236-D84, S/N PB-HX502 12/02, product ID 4236D84
- 2) Phillips Monitor, Model MWE12244T, Product ID 2444E1SB/27
- 3) HDMI Cable, Model CTI AWM with a length of 1 metre
- 4) HDMI-to-USB Adapter, HDW-29572-001
- 5) Wireless Charger, Energizer, Model Number IC2B

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E. Summary of Results

SPECIFICATION		TEST TYPE	Meets	Test Data
FCC CFR 47	IC	IESTITE	Requirement	APPENDIX
Part 15.107	ICES-003,6.1	AC Powerline Conducted Emission	Yes	1
Part 15.109	ICES-003,6.1	Radiated Unintentional Spurious Emissions	Yes	2

a) AC POWERLINE CONDUCTED EMISSIONS

The AC Powerline conducted emissions were measured using the test procedure outlined in CISPR Recommendation 32 through a 50 Ohm Line Impedance Stabilization Network (LISN), which was inserted in the powerline 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/Analyzer 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 on model RHK211LW (STV100-1):

Test Configuration	Operating Mode(s)	Charger + Accessories
1	PCS 1900, Idle, Charging and Video Playback, Slider Open	Fixed Blade Charger + Headset + USB Cable
2	LTE FDD 2, Idle, Charging and Alt.1 Headset + Alt.1 USB Cable + Laptop	
3	WCDMA FDD II HSDPA+, Idle, Charging and Audio Playback, Slider Close	Fixed Blade Charger + Alt.1 Headset + Alt.1 USB Cable + Monitor + HDMI Cable + HDMI-to-USB Adapter
4	WCDMA FDD IV DC HSDPA, Idle, Charging and Video Playback, Slider Close	Wireless Charger + Headset
5	LTE FDD 4+29 (CA), Idle, Charging and Audio Playback, Slider Close	Fixed Blade Charger + Headset + Alt.2 USB Cable

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6	FM Radio, Idle, Charging and	***
	Audio Playback, Slider Close	

^{***} Test results are leveraged from model RHL211LW (STV100-3) based on FM Radio similarity

The sample EUT's AC Powerline conducted emissions were compared with respect to the FCC CFR 47 Part 15.107, Class B Limit, and IC ICES-003, 6.1.

The sample EUT had a worst case test margin of 11.13 dB below the QP limit at 3.975 MHz using the QP detector in Test Configuration 4.

The following test configurations were measured on model RHT181LW (STV100-2):

Test Configuration	Operating Mode(s)	Charger + Accessories
7	GSM 850, Idle, Charging and Video Playback, Slider Open	Fixed Blade Charger + Headset + USB Cable
8	CDMA CELL, Idle, Charging and Audio Playback, Slider Close	Fixed Blade Charger + Alt.5 Headset + Alt.1 USB Cable
9	CDMA PCS, Idle, Charging and Video Playback, Slider Open	Fixed Blade Charger + Headset + Alt.2 USB Cable
10	WCDMA FDD V, Idle, Charging and Audio Playback, Slider Close	Fixed Blade Charger + Alt.5 Headset + Alt.3 USB Cable
11	LTE FDD 5, Idle, Charging and Video Playback, Slider Close	Wireless Charger + Headset
12	LTE FDD 4+13 (CA), Idle, Charging and Video Playback, Slider Close	Fixed Blade Charger + Alt.5 Headset + Alt.3 USB Cable
13	GSM 850, Idle, Charging and Video Playback, Slider Close	Alt.1 Fixed Blade Charger + Alt.5 Headset + Alt.4 USB Cable

The sample EUT's AC Powerline conducted emissions were compared with respect to the FCC CFR 47 Part 15.107, Class B Limit, and IC ICES-003, 6.1.

The sample EUT had a worst case test margin of 6.98 dB below the QP limit at 0.159 MHz using the QP detector and 17.67 dB below the AV limit at 0.483 MHz using the AV detector in Test Configuration 8.

Measurement Uncertainty ±3.2 dB

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

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b) RADIATED UNINTENTIONAL SPURIOUS EMISSIONS

The radiated unintentional spurious emissions from the EUT were measured using the methods outlined in CISPR Recommendation 32. 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. The emissions were then maximized by elevating the antenna in the range of 1 to 4 metres. The maximum emission level was recorded. The radiated emissions were measured up to the fifth harmonic of the highest frequency of the band tested. Both the horizontal and vertical polarizations of the emissions were measured.

The measurements were done in a semi-anechoic chamber (SAC) below 1 GHz and a CISPR compliant modified semi-anechoic chamber (modified SAC) with floor absorbers above 1 GHz. The SAC's FCC registration number is **778487** and the Industry Canada (IC) file number is **2503B-1**. The modified SAC's FCC registration number is **959115** and the IC file number is **2503C-1**.

The EUT was configured and operated to produce the maximum radiated emissions while still keeping within BlackBerry'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 on model RHK211LW (STV100-1):

Test Configuration	Operating Mode(s)	Charger + Accessories
1	PCS 1900, Idle, Charging and Video Playback, Slider Open	Fixed Blade Charger + Headset + USB Cable
2	LTE FDD 2, Idle, Charging and Audio Playback, Slider Close	Alt.1 Headset + Alt.1 USB Cable + Laptop
3	NFC, Tx, Charging and Video Playback, Slider Close	Fixed Blade Charger + Headset + Alt.2 USB Cable
4	WCDMA FDD II HSDPA+, Idle, Charging and Audio Playback, Slider Close	Fixed Blade Charger + Alt.1 Headset + Alt.1 USB Cable + Monitor + HDMI Cable + HDMI-to-USB Adapter

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5	WCDMA FDD IV DC HSDPA, Idle, Charging and Video Playback, Slider Close	Wireless Charger + Headset
6	Bluetooth, Tx, Charging and Video Playback, Slider Open	Fixed Blade Charger + Alt.2 Headset + Alt.3 USB Cable
7	802.11b, Tx, Charging and Audio Playback, Slider Close	Fixed Blade Charger + Alt.3 Headset + Alt.1 USB Cable
8	802.11ac, Tx, Charging and Video Playback, Slider Open	Fixed Blade Charger + Alt.1 Headset + Alt.3 USB Cable
9	LTE FDD 4+29 (CA), Idle, Charging and Audio Playback, Slider Close	Fixed Blade Charger + Headset + Alt.2 USB Cable
10	FM Radio, Idle, Charging and Audio Playback, Slider Close	***

^{***} Test results are leveraged from model RHL211LW (STV100-3) based on FM Radio similarity

The system's radiated emission levels were compared with respect to the FCC CFR 47 Part 15.109, Class B limit and IC ICES-003, 6.2.

The system met the requirements with a worst case emission test margin of 1.67 dB below the QP limit at 39.95 MHz using QP detector in Test Configuration 2.

The following test configurations were measured on model RHT181LW (STV100-2):

Test Configuration	Operating Mode(s)	Charger + Accessories	
11	GSM 850, Idle, Charging and Video Playback, Slider Open	Fixed Blade Charger + Headset + USB Cable	
12	CDMA CELL, Idle, Charging and Audio Playback, Slider Close	Fixed Blade Charger + Alt.5 Headset + Alt.1 USB Cable	
13	CDMA PCS, Idle, Charging and Video Playback, Slider Open	Fixed Blade Charger + Headset + Alt.2 USB Cable	
14	WCDMA FDD V, Idle, Charging and Audio Playback, Slider Close	Fixed Blade Charger + Alt.5 Headset + Alt.3 USB Cable	
15	LTE FDD 5, Idle, Charging and Video Playback, Slider Close	Wireless Charger + Headset	

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	LTE FDD 4+13 (CA), Idle,	Fixed Blade Charger +	
16	Charging and Video Playback,	Alt.5 Headset +	
	Slider Close	Alt.3 USB Cable	
	GSM 850, Idle, Charging and Video Playback, Slider Close	Alt.1 Fixed Blade Charger +	
17		Alt.5 Headset +	
		Alt.4 USB Cable	
	LTE EDD 4 Idla Charging and	Alt.1 Fixed Blade Charger +	
18	LTE FDD 4, Idle, Charging and Video Playback, Slider Close	Alt.5 Headset +	
	Video Flayback, Silder Close	Alt.4 USB Cable	

The system's radiated emission levels were compared with respect to the FCC CFR 47 Part 15.109, Class B limit and IC ICES-003, 6.2.

The system met the requirements with a worst case emission test margin of 4.43 dB below the QP limit at 56.70 MHz using QP detector in Test Configuration 15.

To view the test data see APPENDIX 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 ±4.2 dB

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F. Compliance Test Equipment Used

<u>UNIT</u>	MANUFACTUR ER	MODEL	<u>SERIAL</u> <u>NUMBER</u>	CAL DUE DATE (YY MM DD)	<u>USE</u>
Preamplifier	Sonoma	310N/11909A	185831	16-10-05	Radiated Emissions
Preamplifier system	TDK RF Solutions	PA-02	080010	16-10-05	Radiated Emissions
EMI Receiver	Rohde & Schwarz	ESIB 40	100255	15-12-05	Radiated Emissions
Environment Monitor	OMEGA	iTHX-SD	0380561	16-11-15	Radiated Emission
Environment Monitor	OMEGA	iTHX-SD	0380567	16-11-15	Radiated Emission
L.I.S.N.	Rohde & Schwarz	ENV216	100060	15-11-30	AC Powerline Conducted Emissions
Hybrid Log Antenna	EMC Automation	HLP-3003C	017401	16-02-03	Radiated Emissions
Horn Antenna	EMC Automation	HRN-0118	030101	16-08-14	Radiated Emissions
Preamplifier	Rohde & Schwarz	TS-ANA-SP	001	16-09-10	Radiated Emissions
Universal Radio Communication Tester	Rohde & Schwarz	CMU 200	837493/073	15-12-09	Radiated Emissions
Universal Radio Communication Tester	Rohde & Schwarz	CMU 200	112394	15-12-05	Radiated/AC Powerline Conducted Emission
Universal Radio Communication Tester	Rohde & Schwarz	CMW500	101469	16-11-27	Radiated Emissions
Universal Radio Communication Tester	Rohde & Schwarz	CMW500	109949	16-11-27	Radiated /RF Conducted Emission
EMI Test Receiver	Rohde & Schwarz	ESU 40	100162	15-12-10	Radiated/AC Powerline Conducted Emission
Bluetooth Tester	Rohde & Schwarz	СВТ	100368	15-11-25	Radiated Emissions
Bluetooth Tester	Rohde & Schwarz	CBT	100737	15-11-25	Radiated/AC Powerline Conducted Emission

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G. Test Software Used

<u>SOFTWARE</u>	COMPANY	VERSION	<u>USE</u>
EMC32	Rohde & Schwarz	8.52.0	Radiated Emissions
TDK Standard Emission Test	TDK RF Solutions	8.53.1.62	Radiated Emissions

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APPENDIX 1 - AC POWERLINE CONDUCTED EMISSIONS TEST DATA

	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4) Appendix 1			
-				
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The following tests were performed by Xing Fang.

The following test configurations were measured on model RHK211LW (STV100-1):

Test Configuration 1

Date of the test: August 14, 2015

The environmental conditions were: Temperature: 25.4 °C

Humidity: 43.4 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dBµV)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.492	N	30.54	9.92	40.46	56.10	46.10	-15.64
0.537	L1	27.74	9.89	37.63	56.00	46.00	-18.37
1.091	N	28.21	9.81	38.01	56.00	46.00	-17.99
1.113	L1	27.74	9.80	37.54	56.00	46.00	-18.46
2.072	N	24.01	9.83	33.84	56.00	46.00	-22.16
3.903	L1	22.87	9.90	32.77	56.00	46.00	-23.23
16.152	L1	29.80	10.13	39.93	60.00	50.00	-20.07

All other emissions are at least 25 dB below the limit.

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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Figure 1-1: L1 lines

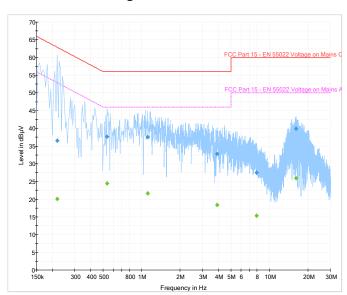
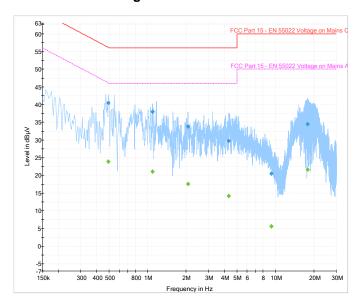


Figure 1-2: N Lines



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Test Configuration 2

Date of the test: August 14, 2015

The environmental conditions were: Temperature: 25.4 °C

> Humidity: 43.4 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dBµV)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.245	N	32.57	10.57	43.14	61.90	51.90	-18.76
0.515	L1	30.57	9.90	40.47	56.00	46.00	-15.53
0.798	N	28.32	9.82	38.14	56.00	46.00	-17.86
0.879	L1	22.98	9.81	32.79	56.00	46.00	-23.21
1.986	L1	24.37	9.82	34.20	56.00	46.00	-21.80
14.618	N	26.94	10.09	37.03	60.00	50.00	-22.98
15.810	L1	27.24	10.08	37.32	60.00	50.00	-22.68

All other emissions are at least 25 dB below the limit.

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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	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4) Appendix 1			
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW		

Figure 1-3: L1 lines

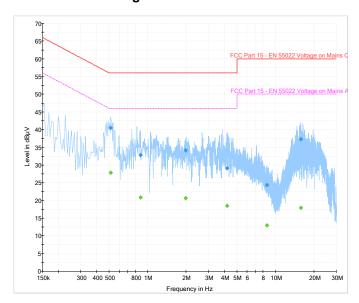
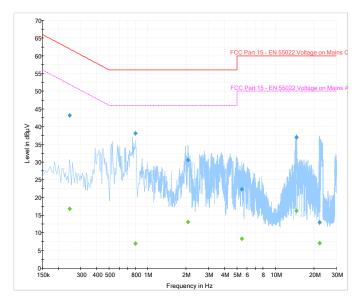


Figure 1-4: N Lines



	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4) Appendix 1			
-				
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW		

Test Configuration 3

Date of the test: August 14, 2015

25.4 °C The environmental conditions were: Temperature:

Humidity: 43.4 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dBµV)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.222	L1	33.23	10.70	43.93	62.70	52.70	-18.77
0.479	L1	33.81	9.92	43.73	56.40	46.40	-12.67
0.488	N	32.18	9.92	42.11	56.20	46.20	-14.09
1.104	L1	29.51	9.80	39.32	56.00	46.00	-16.69
1.163	N	28.88	9.80	38.68	56.00	46.00	-17.32
2.382	L1	21.78	9.84	31.62	56.00	46.00	-24.38
2.774	Ν	23.91	9.87	33.78	56.00	46.00	-22.22
16.512	L1	27.79	10.14	37.93	60.00	50.00	-22.07
18.186	N	25.42	10.23	35.66	60.00	50.00	-24.34

All other emissions are at least 25 dB below the limit.

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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	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4) Appendix 1			
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW		

Figure 1-5: L1 lines

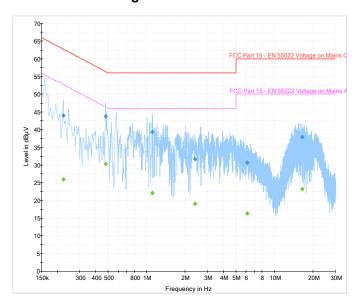
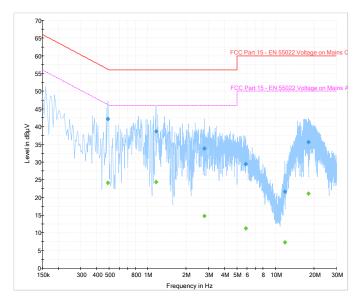


Figure 1-6: N Lines



	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)			
	Appendix 1			
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW		

Test Configuration 4

Date of the test: August 27, 2015

The environmental conditions were: Temperature: 27.1 °C

Humidity: 37.3 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dBµV)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.182	N	38.12	11.01	49.13	64.40	54.40	-15.27
0.195	L1	39.87	10.89	50.76	63.80	53.80	-13.04
0.357	L1	27.61	10.08	37.69	58.80	48.80	-21.11
0.600	Ν	30.00	9.86	39.86	56.00	46.00	-16.14
1.401	L1	23.77	9.80	33.57	56.00	46.00	-22.43
1.829	N	30.80	9.82	40.62	56.00	46.00	-15.38
3.975	N	34.96	9.90	44.87	56.00	46.00	-11.13
5.478	N	35.08	9.91	45.00	60.00	50.00	-15.00

All other emissions are at least 25 dB below the limit.

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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	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)			
_	Append	Appendix 1		
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW		

Figure 1-7: L1 lines

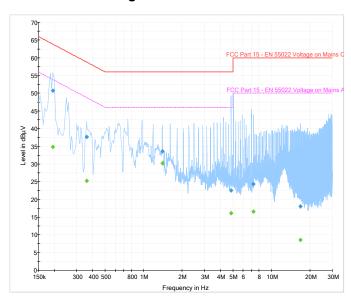
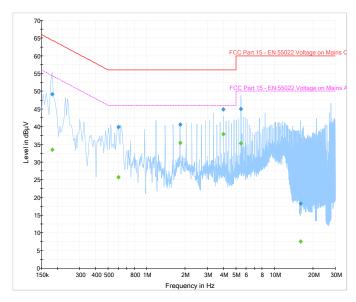


Figure 1-8: N Lines



≅ BlackBerry.	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)				
Appendix 1					
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW			

Test Configuration 5

Date of the test: August 28, 2015

The environmental conditions were: Temperature: 23.1 °C

> Humidity: 43.4 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dBµV)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.195	L1	38.63	10.89	49.52	63.80	53.80	-14.28
0.276	N	30.99	10.34	41.33	60.90	50.90	-19.57
0.488	L1	28.14	9.92	38.05	56.20	46.20	-18.15
1.041	N	28.99	9.81	38.80	56.00	46.00	-17.20
1.109	L1	28.53	9.80	38.33	56.00	46.00	-17.67
2.004	N	24.88	9.83	34.71	56.00	46.00	-21.29
2.405	L1	23.16	9.84	33.00	56.00	46.00	-23.00
4.079	N	22.36	9.90	32.26	56.00	46.00	-23.74
14.946	L1	26.72	10.07	36.78	60.00	50.00	-23.22
17.214	N	29.53	10.20	39.73	60.00	50.00	-20.27

All other emissions are at least 25 dB below the limit.

Measurements were done with the quasi-peak detector.

See figure 1-9 and figure 1-10 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

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	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)			
	Appendix 1			
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW		

Figure 1-9: L1 lines

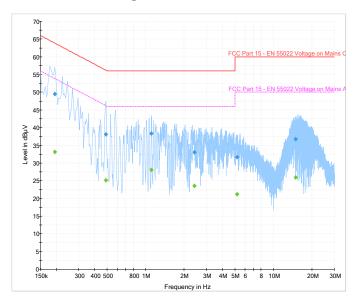
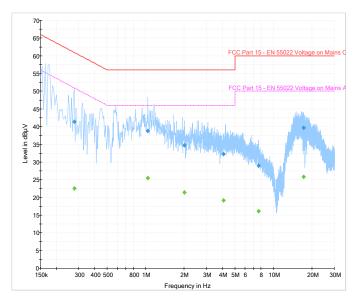


Figure 1-10: N Lines



	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)					
Appendix 1						
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW				

The following test configurations were measured on model RHT181LW (STV100-2):

Test Configuration 7

Date of the test: October 09, 2015

The environmental conditions were: Temperature: 23.9 °C Humidity: 44.3 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dBµV)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.222	N	29.97	10.73	40.70	62.70	52.70	-22.00
0.231	L1	30.47	10.64	41.11	62.40	52.40	-21.29
0.501	N	27.80	9.92	37.72	56.00	46.00	-18.28
0.528	L1	31.23	9.89	41.12	56.00	46.00	-14.88
1.082	Ν	23.20	9.81	33.01	56.00	46.00	-23.00
1.154	L1	26.34	9.80	36.14	56.00	46.00	-19.86
2.310	N	21.76	9.84	31.61	56.00	46.00	-24.39
2.391	L1	23.39	9.84	33.23	56.00	46.00	-22.77
4.979	L1	21.42	9.91	31.32	56.00	46.00	-24.68
16.620	N	26.57	10.16	36.73	60.00	50.00	-23.27

All other emissions are at least 25 dB below the limit.

Measurements were done with the quasi-peak detector.

See figure 1-13 and figure 1-14 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

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	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)			
	Appendix 1			
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW		

Figure 1-13: L1 lines

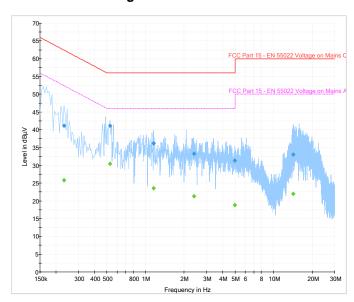
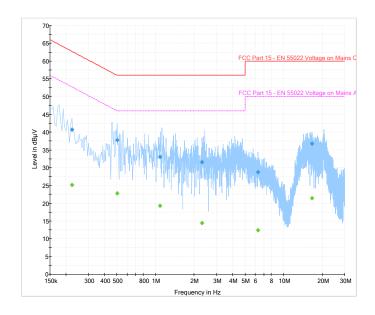


Figure 1-14: N Lines



	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)			
	Appendix 1			
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW		

Test Configuration 8

Date of the test: October 14, 2015

The environmental conditions were: Temperature: 22.2 °C

Humidity: 43.5 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dBµV)	Limit (QP) (dBµV)	Margin (QP) Limits (dB)
0.159	N	47.35	11.17	58.52	65.50	-6.98
0.173	L1	46.43	11.05	57.48	64.80	-7.32
0.209	N	43.32	10.82	54.14	63.30	-9.16
0.231	L1	41.78	10.64	52.42	62.40	-9.98
0.294	N	36.78	10.22	47.00	60.40	-13.40
0.483	L1	31.09	9.92	41.01	56.30	-15.29
1.041	L1	29.51	9.80	39.31	56.00	-16.69
1.316	N	28.75	9.80	38.55	56.00	-17.45
2.688	L1	24.61	9.86	34.47	56.00	-21.53
2.724	N	23.73	9.87	33.60	56.00	-22.40
16.085	N	25.32	10.13	35.45	60.00	-24.55

	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)					
Appendix 1						
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW				

Frequency (MHz)	Line	Reading (AV) (dBµV)	Correction Factor (dB)	Corrected Reading (AV) (dBµV)	Limit (AV) (dBµV)	Margin (AV) Limits (dB)
0.159	N	22.38	11.17	33.55	55.50	-21.95
0.173	L1	25.85	11.05	36.90	54.80	-17.91
0.209	N	19.32	10.82	30.15	53.30	-23.15
0.231	L1	18.80	10.64	29.44	52.40	-22.97
0.294	N	18.86	10.22	29.08	50.40	-21.32
0.483	L1	18.71	9.92	28.63	46.30	-17.67
1.041	L1	17.76	9.80	27.56	46.00	-18.44
1.316	N	17.36	9.80	27.17	46.00	-18.83
2.688	L1	13.85	9.86	23.71	46.00	-22.29
2.724	N	11.61	9.87	21.47	46.00	-24.53

All other emissions are at least 25 dB below the limit.

Measurements were done with the quasi-peak and average detectors.

See figure 1-15 and figure 1-16 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

	EMC Test Report for the BlackBerry® smartphone Model RHK211L\ RHM181LW (STV100-4)				
	Appendix 1				
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW			

Figure 1-15: L1 lines

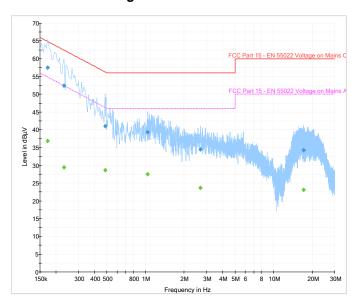
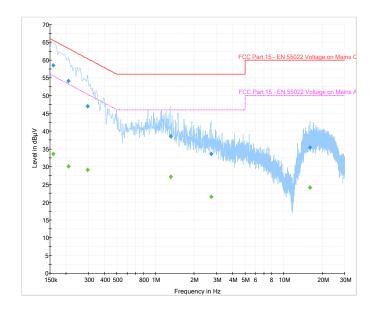


Figure 1-16: N Lines



	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)			
-	Appendix 1			
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW		

Test Configuration 9

Date of the test: October 26, 2015

The environmental conditions were: Temperature: 22.2 °C

Humidity: 43.5 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dBµV)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.155	L1	34.91	11.17	46.08	65.80	55.80	-19.72
0.528	L1	30.80	9.89	40.69	56.00	46.00	-15.31

All other emissions are at least 25 dB below the limit.

Measurements were done with the quasi-peak detector.

See figure 1-17 and figure 1-18 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

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	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)				
	Appendix 1				
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW			

Figure 1-17: L1 lines

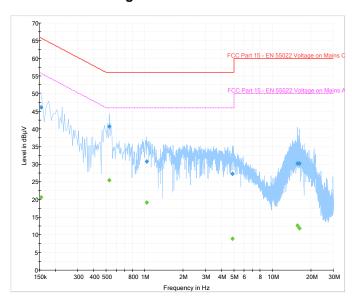
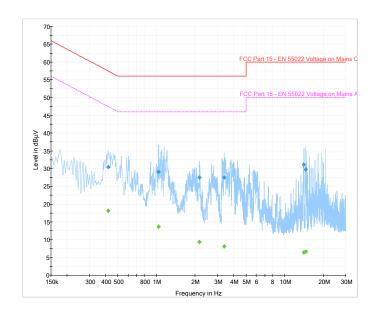


Figure 1-18: N Lines



≅ BlackBerry.	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)			
	Appendix 1			
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW		

Test Configuration 10

Date of the test: October 09, 2015

Temperature: The environmental conditions were: 24.4 °C

Humidity: 45.3 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dBµV)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.488	L1	31.36	9.92	41.27	56.20	46.20	-14.93
0.497	N	31.00	9.92	40.92	56.10	46.10	-15.18
0.753	L1	25.59	9.82	35.42	56.00	46.00	-20.58
0.843	N	26.45	9.82	36.27	56.00	46.00	-19.74
1.325	L1	24.83	9.80	34.63	56.00	46.00	-21.37
1.748	N	21.92	9.82	31.73	56.00	46.00	-24.27
2.117	L1	25.37	9.83	35.20	56.00	46.00	-20.80
16.629	L1	24.99	10.15	35.14	60.00	50.00	-24.86

All other emissions are at least 25 dB below the limit.

Measurements were done with the quasi-peak detector.

See figure 1-19 and figure 1-20 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

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		MC Test Report for the BlackBerry $^{\otimes}$ smartphone Model RHK211LW (STV100-1), HM181LW (STV100-4)		
Appendix 1			dix 1	
	Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW	

Figure 1-19: L1 lines

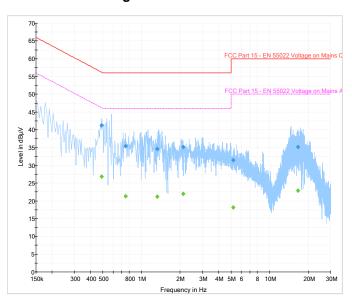
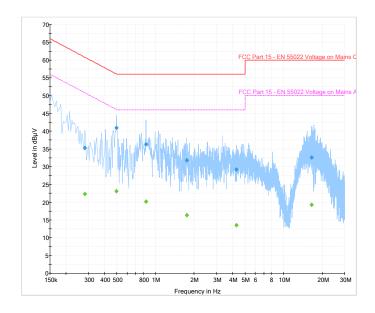


Figure 1-20: N Lines



≅ BlackBerry.	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)			
_	Appendix 1			
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW		

Test Configuration 11

Date of the test: October 14, 2015

Temperature: The environmental conditions were: 22.4 °C

Humidity: 43.3 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dBµV)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.177	N	41.57	11.05	52.61	64.60	54.60	-11.99
0.186	L1	41.52	10.95	52.47	64.20	54.20	-11.73
0.236	L1	37.66	10.61	48.27	62.30	52.30	-14.03
0.537	N	31.56	9.90	41.46	56.00	46.00	-14.54
0.758	L1	28.23	9.82	38.06	56.00	46.00	-17.94
4.853	N	35.50	9.91	45.41	56.00	46.00	-10.59
5.073	L1	33.15	9.91	43.06	60.00	50.00	-16.94
6.797	N	32.94	9.95	42.89	60.00	50.00	-17.11
13.911	N	28.20	10.08	38.28	60.00	50.00	-21.72
29.004	N	37.15	10.40	47.55	60.00	50.00	-12.45
29.891	L1	36.08	10.37	46.45	60.00	50.00	-13.55

All other emissions are at least 25 dB below the limit.

Measurements were done with the quasi-peak detector.

See figure 1-21 and figure 1-22 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

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=== BlackBerry.	hone Model RHK211LW (STV100-1),			
-	Appendix 1			
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW		

Figure 1-21: L1 lines

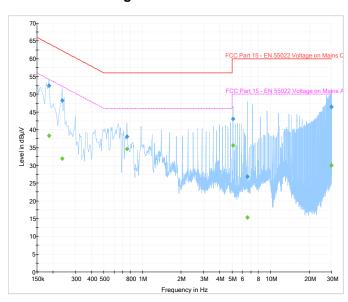
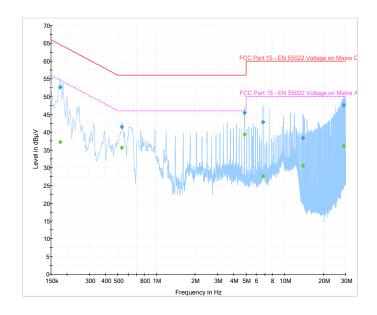


Figure 1-22: N Lines



	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)			
	Appen	dix 1		
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW		

Test Configuration 12

Date of the test: October 14, 2015

The environmental conditions were: Temperature: 22.4 °C

Humidity: 43.3 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dBµV)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.168	N	29.60	11.11	40.71	65.10	55.10	-24.39
0.546	L1	24.87	9.88	34.75	56.00	46.00	-21.25

All other emissions are at least 25 dB below the limit.

Measurements were done with the quasi-peak detector.

See figure 1-23 and figure 1-24 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

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	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)					
	Appendix 1					
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW				

AC Powerline Conducted Emissions Test Graphs

Test Configuration 12

Figure 1-23: L1 lines

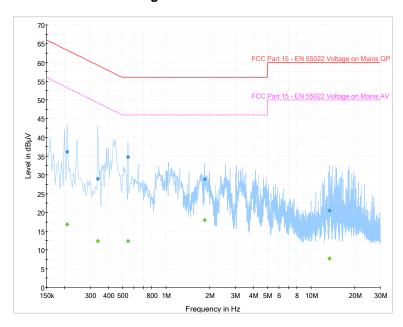
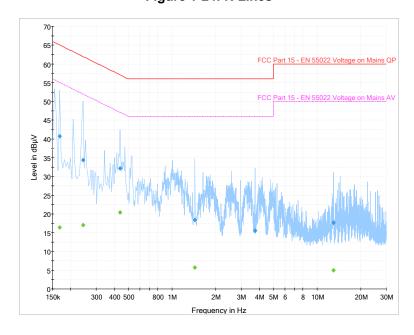


Figure 1-24: N Lines



	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)				
	Appendix 1				
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW			

AC Powerline Conducted Emissions Test Results cont'd

Test Configuration 13

Date of the test: October 26, 2015

The environmental conditions were: Temperature: 22.4 °C

Humidity: 43.3 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dBµV)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.555	L1	35.06	9.88	44.94	56.00	46.00	-11.06
0.578	N	27.44	9.88	37.32	56.00	46.00	-18.68
1.190	L1	28.87	9.80	38.67	56.00	46.00	-17.33
2.369	L1	22.20	9.84	32.04	56.00	46.00	-23.96

All other emissions are at least 25 dB below the limit.

Measurements were done with the quasi-peak detector.

See figure 1-25 and figure 1-26 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

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	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)				
_	Appendix 1				
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW			

AC Powerline Conducted Emissions Test Graphs

Test Configuration 13

Figure 1-25: L1 lines

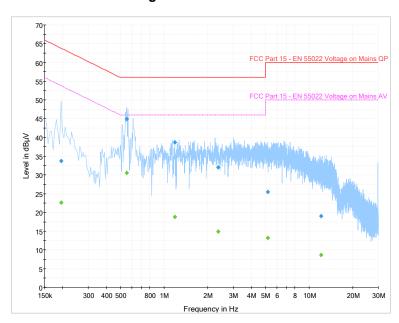
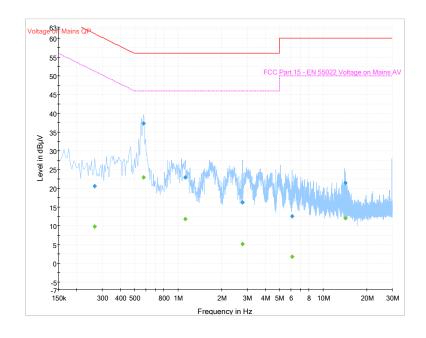


Figure 1-26: N Lines



EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-RHM181LW (STV100-4) Appendix 2					

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EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1 RHM181LW (STV100-4)						
Appendix 2						
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW				

The following tests were performed by Imran Kanji and Kevin Guo.

The following test configurations were measured on model RHK211LW (STV100-1):

Test Configuration 1

Date of the test: July 22 and 24, 2015

The environmental conditions were: Temperature: 24.9 °C

> Humidity: 34.7 %

F	Antenna		Test	Detector	Measured	Correction Factor for	Field Strength	Limit @	Test
Frequency	Pol.	Height	Angle	(Q.P. or	Level (dBµV)	preamp/antenna / cables/ filter (dB/m)	Level (reading +corr)	3.0 m	Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	(42)	(62/11)	(dBµV/m)	(dBµV/m)	(dB)
41.250	V	2.36	201.00	Q.P.	31.89	-13.97	17.92	40.00	-22.08
65.150	V	1.66	58.00	Q.P.	33.94	-15.12	18.82	40.00	-21.18
67.750	V	1.46	84.00	Q.P.	33.89	-14.79	19.10	40.00	-20.90
86.500	V	2.46	67.00	Q.P.	34.16	-13.15	21.01	40.00	-18.99
191.800	V	1.72	354.00	Q.P.	32.33	-9.00	23.33	43.50	-20.17

All other emissions are at least 25 dB below the limit.

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	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)				
	Appendix 2				
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW			

Test Configuration 2

Date of the test: July 24 and August 07, 2015

The environmental conditions were: Temperature: 25.9 °C

Humidity: 31.2 %

Frequency		enna	Test Angle	Detector	Measured Level	Correction Factor for preamp/antenna /	Field Strength Level	Limit @ 3.0 m	Test Margin
(a.u.)	Pol.	Height	J	(Q.P. or Peak)	(dBµV)	cables/ filter (dB/m)	(reading +corr)		ű
(MHz)	(V/H)	(metres)	(Deg.)	,			(dBµV/m)	(dBµV/m)	(dB)
33.800	V	1.88	229.00	Q.P.	44.65	-12.09	32.56	40.00	-7.44
39.950	V	1.40	191.00	Q.P.	52.19	-13.86	38.33	40.00	-1.67
58.350	V	2.46	69.00	Q.P.	46.08	-15.38	30.70	40.00	-9.30
76.850	Н	1.84	173.00	Q.P.	42.07	-13.81	28.26	40.00	-11.74
119.850	V	1.47	68.00	Q.P.	39.71	-10.98	28.73	43.50	-14.77
236.550	Н	1.59	287.00	Q.P.	32.87	-8.61	24.26	46.00	-21.74
999.950	Н	1.38	7.00	Q.P.	22.70	9.80	32.50	54.00	-21.50

■ BlackBerry.	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)				
Appendix 2					
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW			

Test Configuration 3

Date of the test: August 20, 2015

The environmental conditions were: Temperature: 26.1 °C

Humidity: 37.7 %

Frequency	Ar Pol.	itenna Height	Test Angle	Detect or (Q.P.	Level	Correction Factor for preamp/antenna / cables/ filter	Field Strength Level (reading +corr)	Limit @ 3.0 m	Test Margin
(MHz)	(V/H)	(metres)	(Deg.)	or Peak)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
30.250	V	1.39	30.00	Q.P.	35.44	-11.14	24.30	40.00	-15.70
90.650	V	1.55	48.00	Q.P.	35.75	-12.68	23.07	43.50	-20.43
186.600	V	1.40	317.00	Q.P.	34.61	-9.70	24.91	43.50	-18.59

	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4) Appendix 2						
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW					

Test Configuration 4

Date of the test: July 24 and August 07, 2015

The environmental conditions were: Temperature: 26.7 °C Humidity: 30.0 %

	Ar	tenna	Test	Detect	Measured	Correction Factor for	Field Strength	Limit @	Test
Frequency	Pol.	Height	Angle	or (Q.P.	Level	preamp/antenna / cables/ filter	Level (reading+c orr)	3 0 m	Margin
(MHz)	(V/H)	(metres)	(Deg.)	or Peak)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
31.100	V	1.48	185.00	Q.P.	28.19	-11.37	16.82	40.00	-23.18
75.450	V	1.92	125.00	Q.P.	43.03	-13.99	29.04	40.00	-10.96
100.050	Н	2.54	187.00	Q.P.	36.14	-11.96	24.18	43.50	-19.32
126.000	V	1.50	14.00	Q.P.	46.45	-10.93	35.52	43.50	-7.98
146.150	V	1.43	187.00	Q.P.	33.86	-10.84	23.02	43.50	-20.48
253.600	Н	1.87	334.00	Q.P.	46.05	-8.31	37.74	46.00	-8.26
364.200	Н	1.72	334.00	Q.P.	42.01	-3.76	38.25	46.00	-7.75
378.000	V	1.48	354.00	Q.P.	44.16	-3.62	40.54	46.00	-5.46

₽₽ BlackBerry.	phone Model RHK211LW (STV100-1),					
	Appendix 2					
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW				

Test Configuration 5

Date of the test: July 24 and August 21, 2015

The environmental conditions were: Temperature: 26.1 °C Humidity: 37.7 %

	Ar	itenna	Test	Detector	Measured	Correction Factor for	Field Strength	Limit @	Test
Frequency	Pol.	Height	Angle	Detector (Q.P. or	Level	preamp/antenna / cables/ filter (dB/m)	Level (reading+c orr)	3 0 m	Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	(dBµV)	(UD/III)	(dBµV/m)	(dBµV/m)	(dB)
40.800	V	1.67	249.00	Q.P.	39.87	-13.94	25.93	40.00	-14.07
58.800	V	1.88	266.00	Q.P.	52.49	-15.41	37.08	40.00	-2.92
77.100	V	1.49	198.00	Q.P.	50.96	-13.81	37.15	40.00	-2.85
85.300	V	1.78	55.00	Q.P.	42.41	-13.35	29.06	40.00	-10.94
167.150	V	1.78	327.00	Q.P.	41.06	-10.76	30.30	43.50	-13.20
223.200	V	1.54	345.00	Q.P.	38.78	-7.99	30.79	46.00	-15.21

₽₽ BlackBerry.	phone Model RHK211LW (STV100-1),					
	Appendix 2					
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW				

Test Configuration 6

Date of the test: July 24 and 27, 2015

The environmental conditions were: Temperature: 26.6 °C

Humidity: 36.7 %

	An	itenna	Test	D	Measured	Correction Factor for	Field Strength	Limit @	Test
Frequency	Pol.	Height	Angle	Detector (Q.P. or	Level (dBµV)	preamp/antenna / cables/ filter (dB/m)	Level (reading+c orr)	3 N m	Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	(ивру)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
35.600	V	1.77	291.00	Q.P.	31.21	-12.70	18.51	40.00	-21.49
45.900	V	1.50	107.00	Q.P.	33.89	-14.57	19.32	40.00	-20.68
87.000	V	1.49	263.00	Q.P.	41.91	-13.01	28.90	40.00	-11.10
158.150	Н	2.26	196.00	Q.P.	31.76	-10.99	20.77	43.50	-22.73
188.600	V	1.48	141.00	Q.P.	29.39	-9.53	19.86	43.50	-23.64
283.900	Н	1.33	185.00	Q.P.	28.62	-7.52	21.10	46.00	-24.90
415.000	Н	2.61	21.00	Q.P.	30.84	-1.97	28.87	46.00	-17.13

	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4) Appendix 2						
_							
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW					

Test Configuration 7

Date of the test: August 06, 2015

The environmental conditions were: Temperature: 25.8 °C Humidity: 35.7 %

F	An	tenna	Test	Detector	Measured	Correction Factor for	Field Strength	Limit @	Test
Frequency	Pol.	Height	Angle	(Q.P. or	Level (dBµV)	preamp/antenna / cables/ filter (dB/m)	Level (reading+c orr)	3.0 m	Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	(ивру)	(dD/III)	(dBµV/m)	(dBµV/m)	(dB)
48.750	V	1.76	354.00	Q.P.	32.71	-15.01	17.70	40.00	-22.30
58.200	V	1.40	83.00	Q.P.	36.11	-15.37	20.74	40.00	-19.26
90.300	V	1.52	114.00	Q.P.	38.17	-12.72	25.45	43.50	-18.05
187.950	Н	1.71	11.00	Q.P.	34.83	-9.62	25.21	43.50	-18.29

	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4) Appendix 2						
_							
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW					

Test Configuration 8

Date of the test: August 06, 2015

The environmental conditions were: Temperature: 25.9 °C Humidity: 36.4 %

Field Antenna Strength Measured Correction Factor for Test Limit @ Test Detector Frequency Level Level preamp/antenna / 3.0 m Margin Angle Pol. Height (reading+c cables/ filter (Q.P. or orr) (dB/m) (dBµV) Peak) $(dB\mu V/m)$ (MHz) (V/H) (metres) (Deg.) (dBµV/m) (dB) 47.500 Q.P. V 1.40 10.00 35.81 -14.91 20.90 40.00 -19.10 ٧ 18.11 58.250 71.00 Q.P. 33.48 -15.37 40.00 -21.89 1.50 92.100 ٧ 1.40 50.00 Q.P. 40.41 -12.54 27.87 43.50 -15.63 172.400 ٧ 1.45 305.00 Q.P. 36.35 -10.50 25.85 43.50 -17.65187.300 Н Q.P. 34.29 -9.66 24.63 -18.87 2.06 354.00 43.50

	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4) Appendix 2						
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW					

Test Configuration 9

Date of the test: August 25 and 26, 2015

The environmental conditions were: Temperature: 26.2 °C

Humidity: 33.3 %

	An	itenna	Test	Datastan	Measured	Correction Factor for	Field Strength	Limit @	Test
Frequency	Pol.	Height	Angle	Detector (Q.P. or	Level (dBµV)	preamp/antenna / cables/ filter (dB/m)	Level (reading+c orr)	3 0 m	Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	(/	(021111)	(dBµV/m)	(dBµV/m)	(dB)
31.200	V	1.48	202.00	Q.P.	31.29	-11.41	19.88	40.00	-20.12
36.850	V	1.54	153.00	Q.P.	27.96	-12.96	15.00	40.00	-25.00
56.550	V	1.42	173.00	Q.P.	37.62	-15.33	22.29	40.00	-17.71
186.800	V	1.42	325.00	Q.P.	35.75	-9.69	26.06	43.50	-17.44

	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)						
_	Appendix 2						
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW					

The following test configurations were measured on model RHT181LW (STV100-2):

Test Configuration 11

Date of the test: October 09 and 13, 2015

The environmental conditions were: Temperature: 24.4 °C

Humidity: 30.1 %

Frequency	Ant Pol.	enna Height	Test Angle	Detector (Q.P. or	Measured Level (dBµV)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading +corr)	Limit @ 3.0 m	Test Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	(* ř)	,	(dBµV/m)	(dBµV/m)	(dB)
33.550	V	1.44	42.00	Q.P.	30.64	-12.05	18.59	40.00	-21.41
44.950	V	1.55	15.00	Q.P.	33.03	-14.56	18.47	40.00	-21.53
56.000	V	1.97	224.00	Q.P.	31.28	-15.28	16.00	40.00	-24.00
190.000	Н	2.14	235.00	Q.P.	31.44	-9.43	22.01	43.50	-21.49

≅ BlackBerry.	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)					
	Appendix 2					
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW				

Test Configuration 12

Date of the test: October 13 and 14, 2015

The environmental conditions were: Temperature: 28.0 °C

Humidity: 30.0 %

	Ant	enna	Test	Datastas	Measured	Correction Factor for	Field Strength	Limit @	Test
Frequency	Pol.	Height	Angle	Detector (Q.P. or	Level (dBµV)	preamp/antenna / cables/ filter (dB/m)	Level (reading +corr)	3.0 m	Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	(авру)	(dD/III)	(dBµV/m)	(dBµV/m)	(dB)
33.700	V	1.42	7.00	Q.P.	29.83	-12.08	17.75	40.00	-22.25
45.150	V	1.76	23.00	Q.P.	32.90	-14.56	18.34	40.00	-21.66
54.100	V	1.90	33.00	Q.P.	33.65	-15.43	18.22	40.00	-21.78
186.500	Η	1.85	224.00	Q.P.	29.53	-9.70	19.83	43.50	-23.67

All other emissions are at least 25 dB below the limit.

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	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)					
	Appendix 2					
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW				

Test Configuration 13

Date of the test: October 13 and 23, 2015

The environmental conditions were: Temperature: 27.4 °C

Humidity: 29.9 %

Frequency		Height	- Test Angle	Detector (Q.P. or	Measured Level (dBµV)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading +corr)	Limit @ 3.0 m	Test Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	(ивру)	(dD/III)	(dBµV/m)	(dBµV/m)	(dB)
33.600	V	3.99	125.00	Q.P.	27.11	-12.05	15.06	40.00	-24.94
44.850	V	1.56	214.00	Q.P.	32.53	-14.55	17.98	40.00	-22.02

	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)					
	Appendix 2					
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW				

Test Configuration 14

Date of the test: October 09 and 13, 2015

The environmental conditions were: Temperature: 28.0 °C

Humidity: 29.4 %

Frequency	Ant Pol.	enna Height	Test Angle	Detector (Q.P. or	Measured Level (dBµV)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading +corr)	Limit @ 3.0 m	Test Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)		` ,	(dBµV/m)	(dBµV/m)	(dB)
33.500	V	1.44	58.00	Q.P.	30.72	-12.03	18.69	40.00	-21.31
39.800	V	1.57	86.00	Q.P.	29.20	-13.82	15.38	40.00	-24.62
55.100	V	1.43	5.00	Q.P.	30.96	-15.35	15.61	40.00	-24.39

≅ BlackBerry.	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)					
	Appendix 2					
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW				

Test Configuration 15

Date of the test: October 09 and 20, 2015

The environmental conditions were: Temperature: 24.6 °C

Humidity: 25.1 %

Frequency	Ant Pol.	enna Height	Test Angle	Detector (Q.P. or	Measured Level (dBµV)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading +corr)	Limit @ 3.0 m	Test Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	(° ')	(* * /	(dBµV/m)	(dBµV/m)	(dB)
40.300	V	1.45	105.00	Q.P.	43.09	-13.90	29.19	40.00	-10.81
55.650	V	1.49	77.00	Q.P.	50.84	-15.30	35.54	40.00	-4.46
56.700	V	1.80	58.00	Q.P.	50.91	-15.34	35.57	40.00	-4.43
82.500	V	1.49	344.00	Q.P.	43.62	-13.52	30.10	40.00	-9.90
167.650	V	1.43	65.00	Q.P.	38.37	-10.73	27.64	43.50	-15.86
224.300	V	1.50	339.00	Q.P.	33.25	-7.95	25.30	46.00	-20.70

	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)					
	Appendix 2					
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW				

Test Configuration 16

Date of the test: October 09 and 21, 2015

The environmental conditions were: Temperature: 25.6 °C

Humidity: 33.0 %

Froguency	Ant	enna	Test	Detector	Measured	Correction Factor for	Field Strength Level	Limit @	Test
Frequency	Pol.	Height	Angle	(Q.P. or	Level (dBµV)	preamp/antenna / cables/ filter (dB/m)	(reading +corr)	3.0 m	Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)	· ,	,	(dBµV/m)	(dBµV/m)	(dB)
34.400	V	1.42	315.00	Q.P.	30.96	-12.29	18.67	40.00	-21.33
190.250	Η	1.97	20.00	Q.P.	29.68	-9.37	20.31	43.50	-23.19

All other emissions are at least 25 dB below the limit.

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••	EMC Test Report for the BlackBerry [®] smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)					
	Appendix 2					
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW				

Test Configuration 17

Date of the test: October 26 and 27, 2015

The environmental conditions were: Temperature: 25.6 °C

Humidity: 33.0 %

Frequency	Ant Pol.	enna Height	Test Angle	Detector (Q.P. or	Measured Level (dBµV)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading +corr)	Limit @ 3.0 m	Test Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)		` ,	(dBµV/m)	(dBµV/m)	(dB)
45.250	V	1.40	298.00	Q.P.	31.36	-14.56	16.80	40.00	-23.20
59.300	V	2.90	49.00	Q.P.	43.57	-15.42	28.15	40.00	-11.85
204.000	V	1.47	354.00	Q.P.	27.35	-7.65	19.70	43.50	-23.80

	EMC Test Report for the BlackBerry® smartphone Model RHK211LW (STV100-1), RHM181LW (STV100-4)					
	Appendix 2					
Test Report No. RTS-6066-1509-05C	Date of Test July 22 to October 27 and November 06, 2015	FCC ID: L6ARHK210LW, L6ARHT180LW IC: 2503A-RHK210LW				

Test Configuration 18

Date of the test: November 06, 2015

The environmental conditions were: Temperature: 26.7 °C

Humidity: 38.9 %

Frequency	Ant Pol.	enna Height	Test Angle	Detector (Q.P. or	Measured Level (dBµV)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading +corr)	Limit @ 3.0 m	Test Margin
(MHz)	(V/H)	(metres)	(Deg.)	Peak)		, ,	(dBµV/m)	(dBµV/m)	(dB)
45.250	V	1.40	298.00	Q.P.	31.36	-14.56	16.80	40.00	-23.20
59.300	V	2.90	49.00	Q.P.	43.57	-15.42	28.15	40.00	-11.85
204.000	V	1.47	354.00	Q.P.	27.35	-7.65	19.70	43.50	-23.80