UL International EMC Services
333 Pfingsten Road
Northbrook, Illinois 60062-2096
(800) 873-8536
Fax No. (847) 272-8864
http://www.ul.com/hitech/emc/

November 21, 2006

Motorola Inc.
Attn: Mr. Doug Hammers
600 N. US HWY 45
Libertyville, IL 60048
US

UL Reference: File MC15003, Project 06CA57116

Subject: EMC Test and Measurement Report for Cell Phone 19342 -1.

Dear Mr. Hammers:

We have provided with this letter your EMC Test Report for the above referenced model. The product was determined to comply with the requirements noted in the report.

Please review the attached report and direct any questions or comments to me.

We appreciate your interest in UL's EMC Services, and encourage you to contact us in the future should you need EMC test services. This closes Project 06CA57116.

Best regards,

Lou Madjarov (Ext 43957)
EMC Sr. Project Engineer
International EMC Services

Reviewed by:

Jack Steiner
Section Manager
International EMC Services

EMC – TEST REPORT

Issue Date: November 21, 2006

Ö **EMISSIONS**

IMMUNITY

Test Report File No.	:	MC15003
Project No.	:	06CA57116
Kind of Product	:	Bluetooth Cell Phone
Applicant	:	Motorola Inc.
License Holder	:	Motorola Inc.
Address	:	600 N. US HWY 45
	:	Libertyville, IL 60048
	:	US
Manufacturer	:	Same as Applicant
	:	
	:	
	:	
Test Result	:	**COMPLIANT**

This report without appendices consists of 10 pages. Appendix A contains test photos, Appendix B contains original test data and Appendix C contains operating instructions provided by the manufacturer. The data contained in this report reflects only the items tested in the configurations and mode of operations described. An attempt has been made to arrange the EUT, with the equipment provided, into a test configuration which maximizes the observed emissions of the EUT while simulating, as close as practical, a typical end-use installation.

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this report provided it is reproduced in its entirety.

Underwriters Laboratories Inc. 333 Pfingsten Rd. Northbrook, IL 60062
Fax: (847) 272-8864

REPORT DIRECTORY

SECTION	TITLE
GENERAL	
1.0	General Product Description
1.1	Model Differences
1.2	Environmental Conditions in Test Lab
1.3	Calibration Details of Equipment Used for Measurement
1.4	EUT (Equipment Under Test) Configuration
1.5	EUT Operating Mode
1.6	Device Modifications
EMISSIONS	
2.0	Emissions Test Regulations
	Radiated Electric Field Emissions
IMMUNITY	
3.0	Immunity Test Regulations
CONCLUSION	
4.0	General Remarks
4.1	Summary
APPENDICIES	
A	Test Setups (Photos, Diagrams and Drawings)
B	Test Data
C	Operating instructions provided by the manufacturer

1.0 GENERAL PRODUCT DESCRIPTION

The equipment under test (EUT) is a BlueTooth cell phone 19342 -1.

1.0.1 Equipment Mobility:

Hand-held

1.0.2 Test Voltage and Frequency:

Voltage (V)	Frequency (Hz)
Cell phone battery	DC

1.1 MODEL DIFFERENCES

Any other model(s) represented by the models tested in this investigation will be documented by the manufacturer.

1.2 ENVIRONMENTAL CONDITIONS IN TEST LAB

Temperature:	**20-25 °C**
Relative Humidity:	**30-60% RH**
Atmospheric Pressure:	**860-1060 mbar**

1.3 CALIBRATION OF EQUIPMENT USED FOR MEASUREMENT

All test equipment and test accessories are calibrated on a regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less.

All test equipment calibrations are traceable to the National Institute of Standards and Technology (NIST), therefore, all test data recorded in this report is traceable to NIST.

Equipment Calibration Data

Manufacturer Name	Item Name Description	Model #	Serial Number	Calibration Date	Calibration Due Date
Hewlett Packard	QP Adapter	85650A	2811A01069	1/06/06	1/06/07
Hewlett Packard	S/A Display	8566B	2542A12974	1/06/06	1/06/07
Hewlett Packard	S/A	8566B	2637A03376	1/06/06	1/06/07
Rohde & Schwartz	S/A	FSEK20	DE2525315	3/15/06	3/15/07
Chase	Bi-Con Antenna 30-300MHz	VBA6106A	1246	08/15/06	08/15/07
Chase	Log-Periodic Antenna	UPA6109	1060	3/17/06	3/17/07
EMCO	Horn Antenna 1-18GHz	3115	2638	8/09/06	8/09/07
EMCO	Horn Antenna 2-4GHz	3161-02	9906-1052	N/A	N/A
EMCO	Horn Antenna 4-8GHz	3161-03	9905-1041	N/A	N/A
EMCO	Horn Antenna 8-12GHz	3160-07	9902-1114	N/A	N/A
EMCO	Horn Antenna 12-18GHz	3160-08	9904-1100	N/A	N/A
EMCO	Horn Antenna 18-26.5GHz	3160-09	990345-003	N/A	N/A
UL	40 GHz BOMS Signal Path	ULBOMS	-	2/2005	2/2007

1.4 EUT CONFIGURATION(s)

See Appendix A for individual set-up configuration(s). In addition to the EUT, the following peripheral devices and/or cables were connected during the measurement:

Phone was tested in battery mode only. No external cables (USB, Headphone or Charger) were attached per manufacturer's request.

Device	Manufacturer	Submission #	Serial #	FCC ID
EUT	Motorola Corp	19342 -1	-	Not Available

1.5 EUT OPERATING MODE(s)

The equipment under test was operated during the measurements under the following conditions:

- Per manufacturer's request tests were performed in the Bluetooth mode only. See Appendix C for manufacturer's provided instructions for configuring the phone to operate in this mode.
- Tests were performed at low, mid and high channels.
- Tests were performed with EUT orientated along X, Y and Z orthogonal axis.

1.6 DEVICE MODIFICATIONS

The following modifications were necessary for compliance:

None

2.0 EMISSIONS TEST REGULATIONS

The following test were performed according to the following regulations:

- The **spurious radiated emission** requirements of paragraph **15.247(d) of CFR47 Part 15 2006**, specifically ”radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

- Under this project only 30 to 1000MHz, 1 to 25GHz and band-edge measurements were performed.

- Additional guidance was obtained from FCC Document, DA 00-705, Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems Released March 30, 2000

RADIATED ELECTRIC FIELD EMISSIONS, 30 TO 1000MHz

Test Location

10 Meter Semi-Anechoic Chamber

UL Procedure
Northbrook Work Instruction for Measurement of Radiated Emissions (EMC)
08-CA-W0030

Test Instruments

Spectrum Analyzer / Quasi-peak Adapter / Preamplifier

Hewlett Packard Model 8566B Spectrum Analyzer	EMC4085
Model 85650A Quasi-peak Adapter	EMC4016
Miteq AM-3A-000110-N Preamp	EMC4151

Antennas

Chase EMC Ltd., Biconical Antenna Model VBA6106A	S/N 1246	EMC4078
Chase EMC Ltd., Log Periodic Antenna Model UPA6109	S/N 1060	EMC4258

Frequency Range of Measurement
30MHz-1000MHz

Measurement Distance

10 meters

Test Results

The requirements are:
MET

Remarks

See App. B for complete test results.

RADIATED ELECTRIC FIELD EMISSIONS, 1 TO 25 GHz
BAND-EDGE MEASUREMENTS

Test Location

10 Meter Semi-Anechoic Chamber

UL Procedure

Northbrook Work Instruction for Measurement of Radiated Emissions (EMC)
08-CA-W0030

Test Instruments

Spectrum Analyzer

Rhode & Schwarz, Spectrum Analyzer, 9kHz-40GHz, EMC 4182
UL BOMS Signal Path

Antennas

Emco	Double-Ridge Guide Horn	3115	2638
Emco	Horn Antenna 2-4GHz	3161-02	9906-1052
Emco	Horn Antenna 4-8GHz	3161-03	9905-1041
Emco	Horn Antenna 8-12GHz	3160-07	9902-1114
Emco	Horn Antenna 12-18GHz	3160-08	9904-1100
Emco	Horn Antenna 18-26.5GHz	3160-09	990345-003

Frequency Range of Measurement
1 to 25 GHz

Measurement Distance
3 meters

Test Results

The requirements are:
MET

Remarks
See App. B for complete test results.

Preliminary peak scans were performed in low, mid and high channels as well as with EUT configured along X, Y and Z orthogonal axis. Final maximized (azimuth and height) measurements were then performed under worst-case configuration as determined during preliminary measurement.

3.0 IMMUNITY TEST REGULATIONS

Immunity testing was not performed per the request of the manufacturer nor required by CFR 47, Part 15.

4.0 GENERAL REMARKS

Sample Receipt Date : November 4, 2006

Test Dates

Start : November 5, 2006
End : November 12, 2006

4.1 SUMMARY

The requirements according to the technical regulations are:

MET

Underwriters Laboratories Inc.
333 Pfingsten Road
Northbrook, IL 60062 USA

Test Engineer:

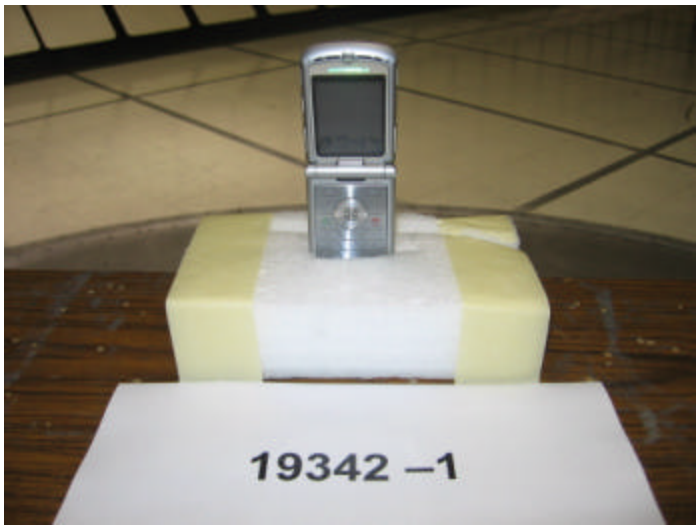
Lou Madjarov (Ext 43957)
EMC Sr. Project Engineer
International EMC Services

Reviewed by:

Jack Steiner
Section Manager
International EMC Services

APPENDIX A

PHOTOS



Radiated Emissions
X-Axis

.

Radiated Emissions
Y-Axis

Radiated Emissions
Z-Axis

APPENDIX B

TEST DATA

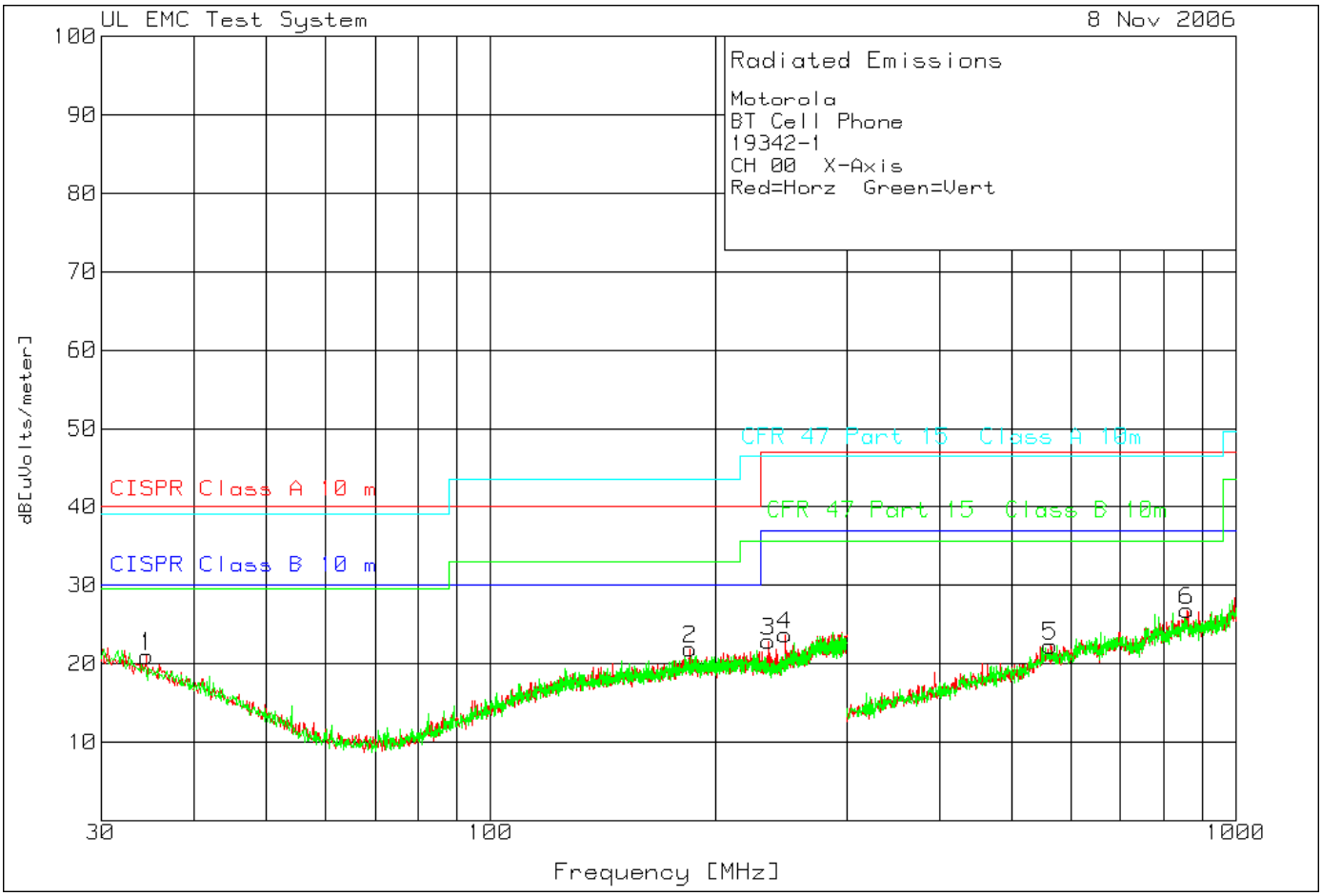
EMISSIONS

Radiated Electric Field Emissions

UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-8-2006

Manufacturer	:	**Motorola Inc.**
Equipment Under Test	:	**19342 -1 Cell Phone**
Requirement	:	**CFR 47 Part 15 Class B**
Detection Mode	:	Peak (pk)
Bandwidth	:	120 kHz
Measurement Distance	:	10 meter
Antenna Type	:	**30 - 300 MHz, Biconical**
		300 - 1000 MHz, Log-Periodic



UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-8-2006

Manufacturer	:	**Motorola Inc.**
Equipment Under Test	:	**19342 -1 Cell Phone**
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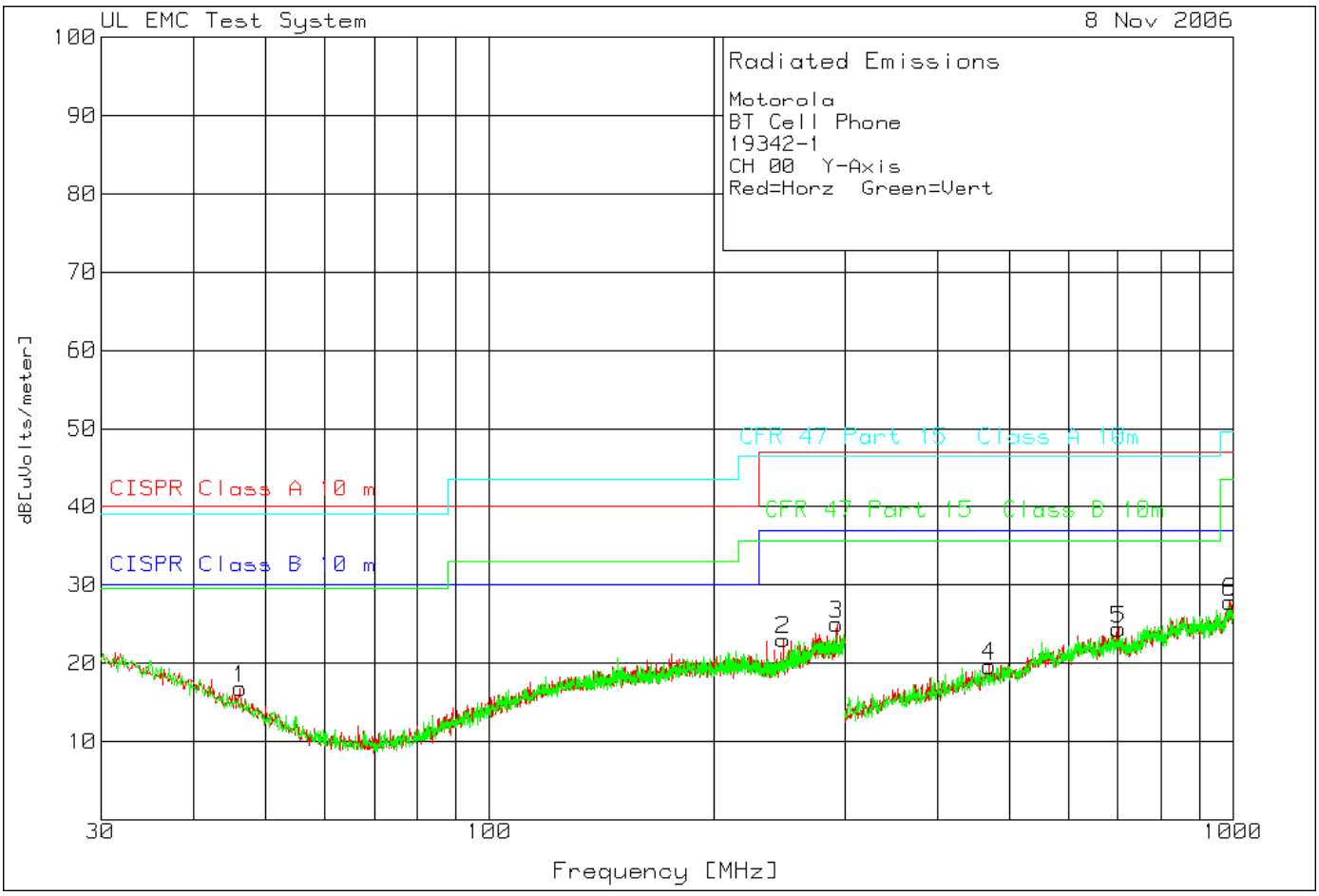

UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-8-2006

Manufacturer	:	**Motorola Inc.**
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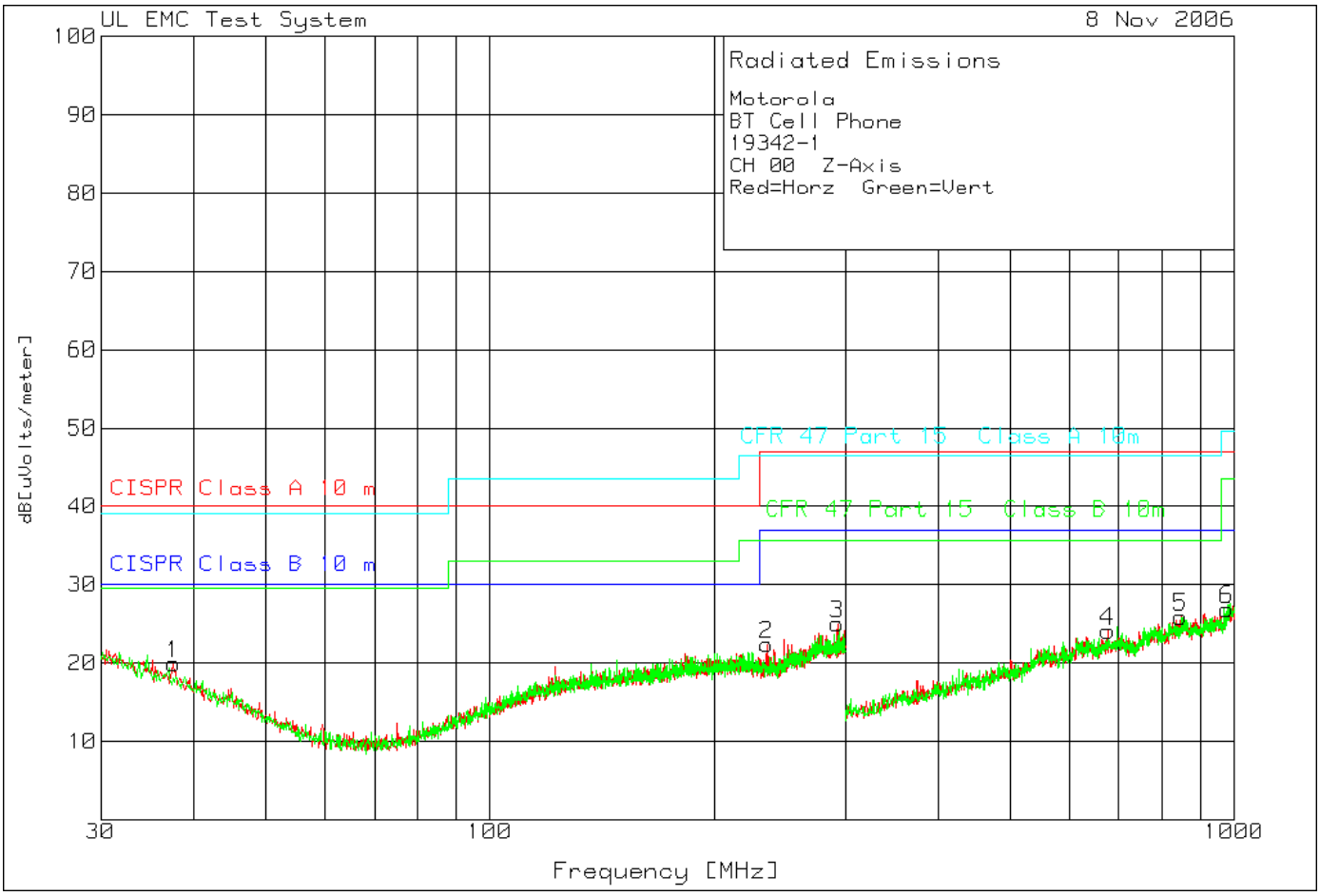

UNDERWRITERS LABORATORIES INC.
Radiated Emissions

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Equipment Under Test	:	**19342 -1 Cell Phone**
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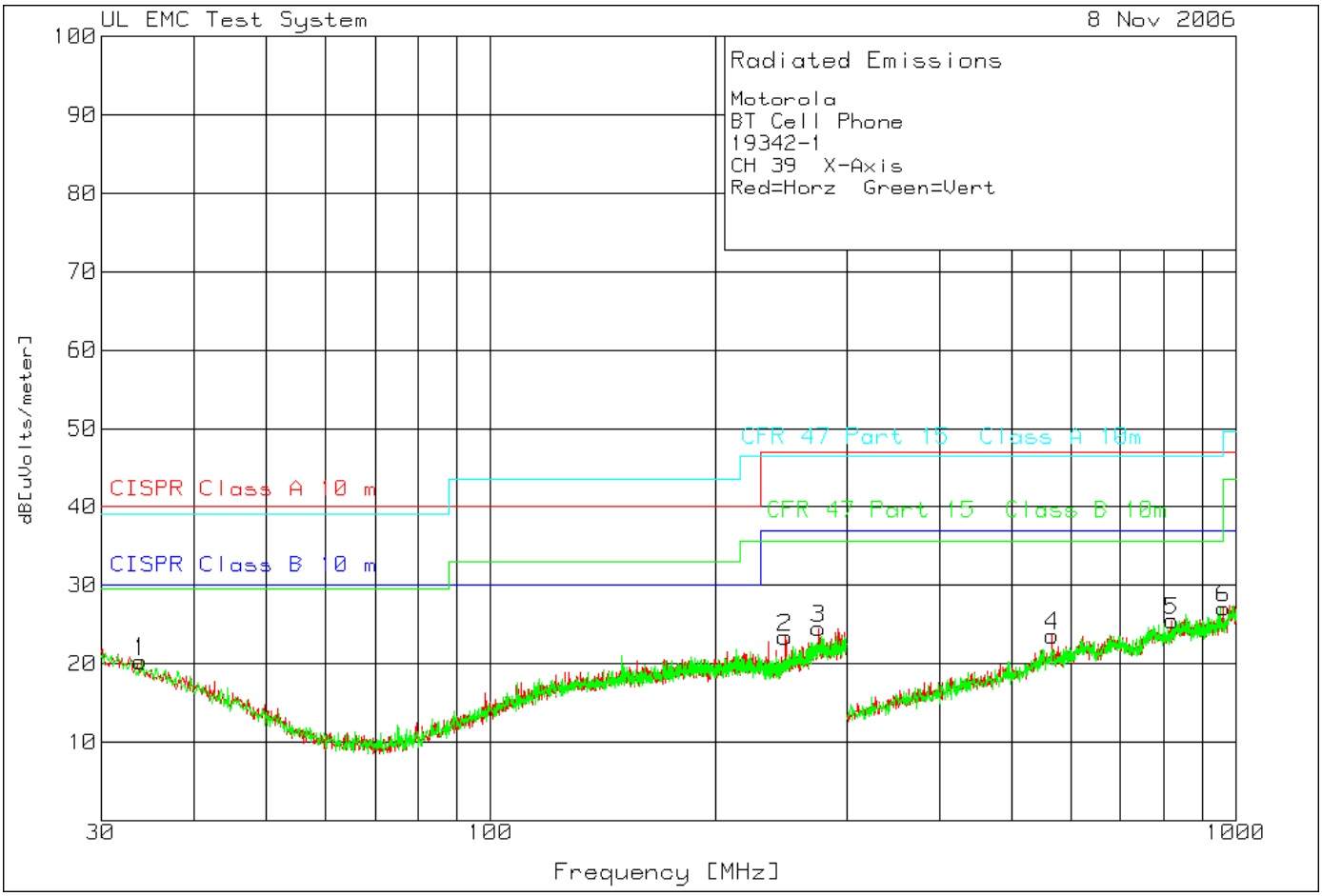

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Radiated Emissions

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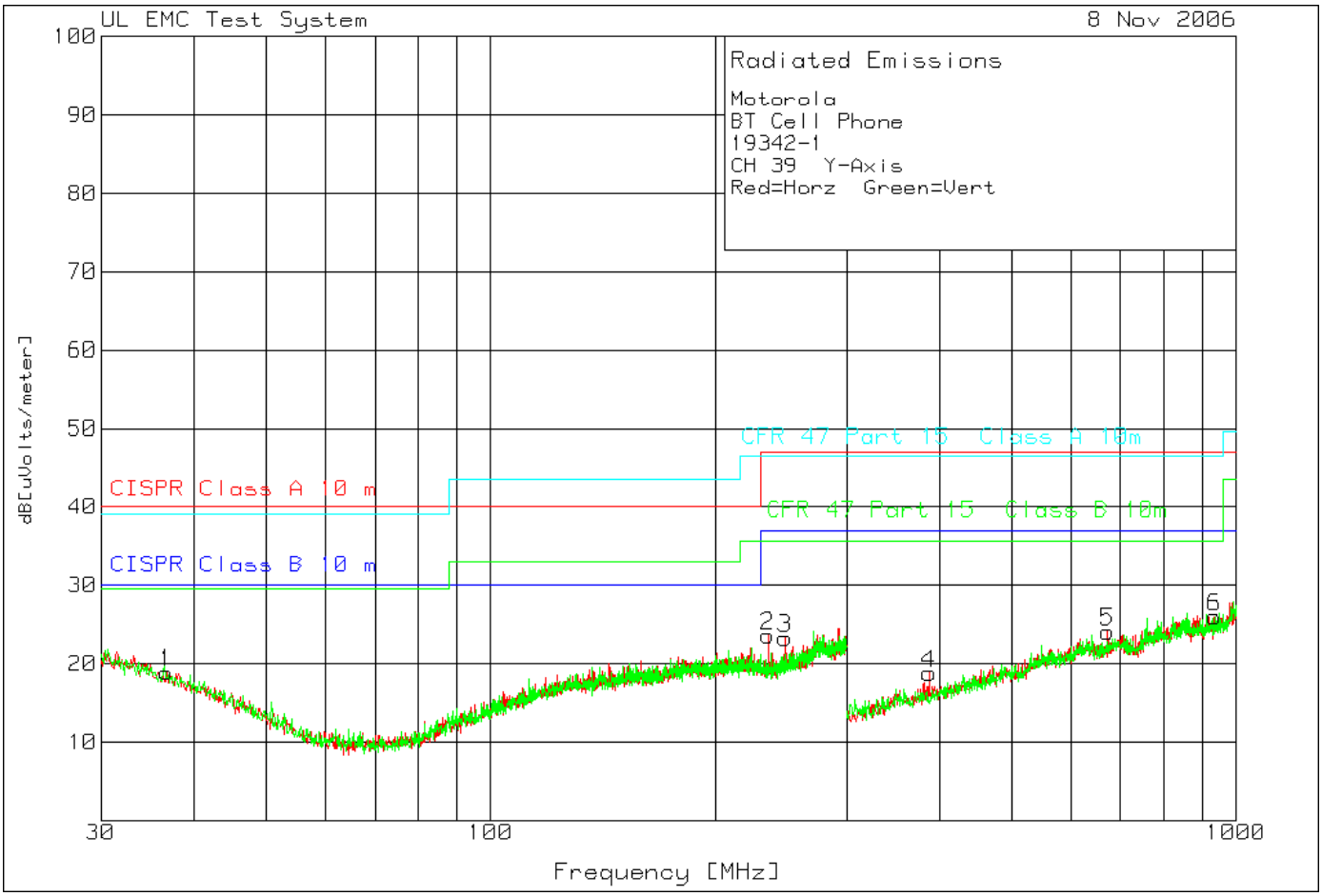

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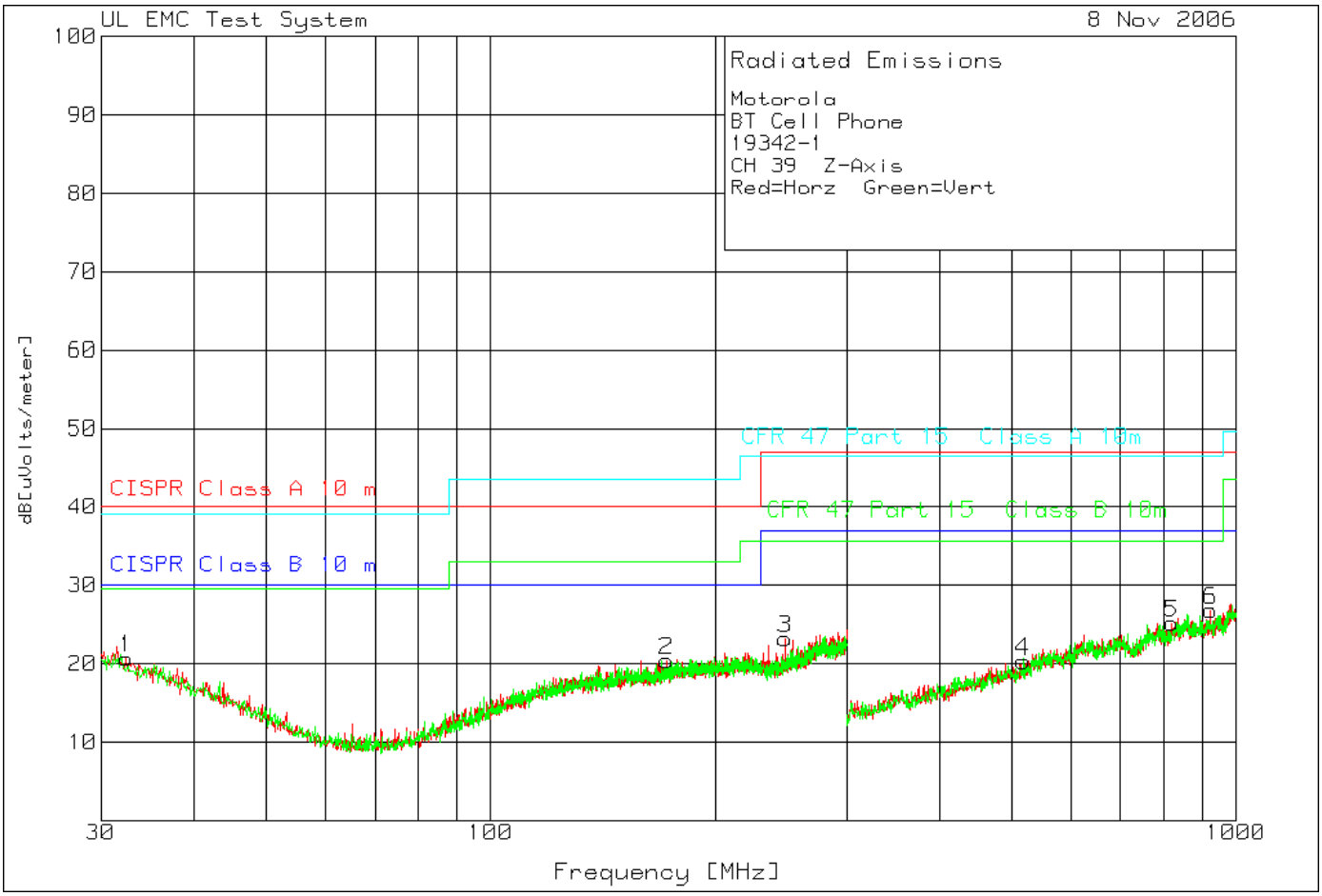

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Radiated Emissions

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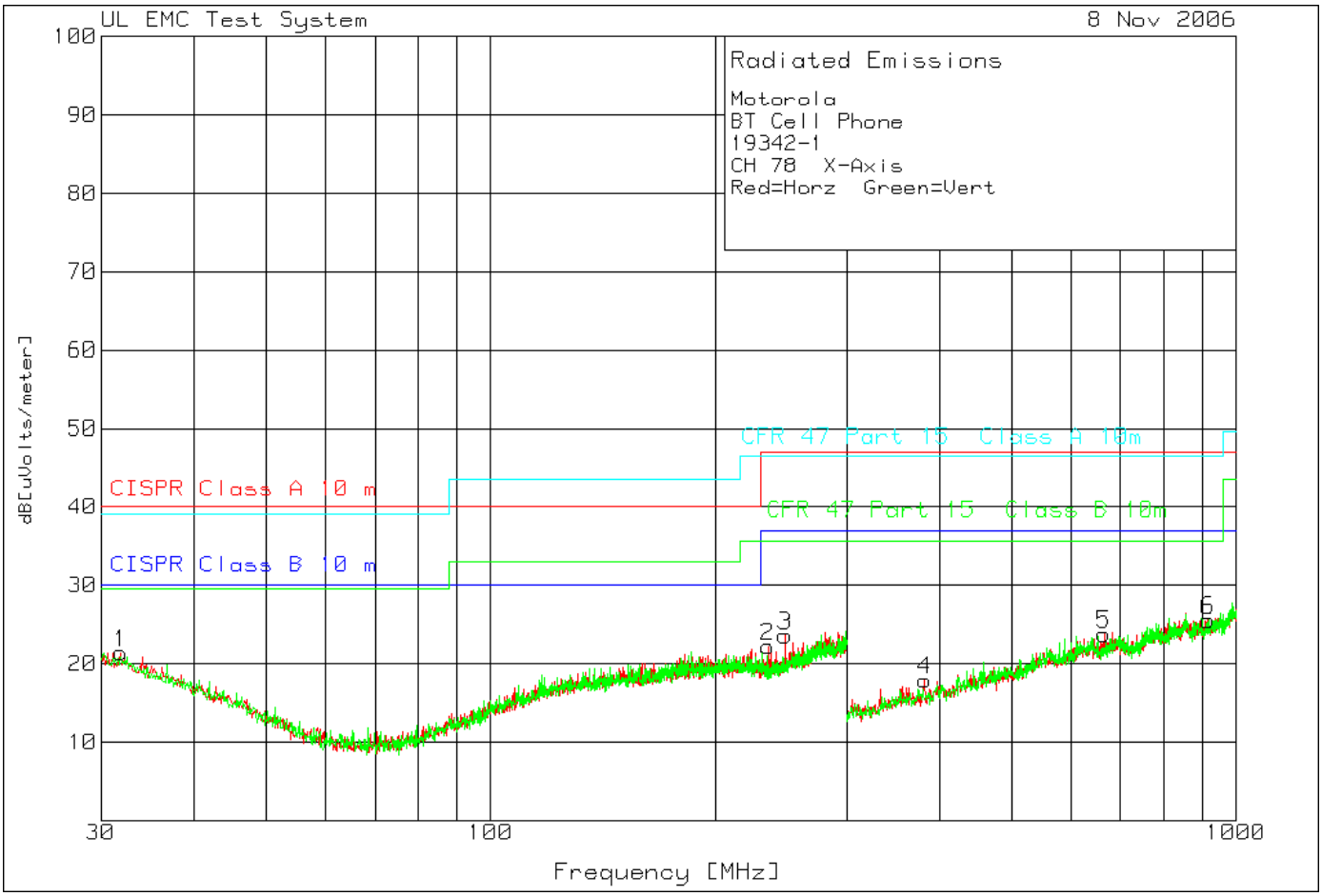

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Radiated Emissions

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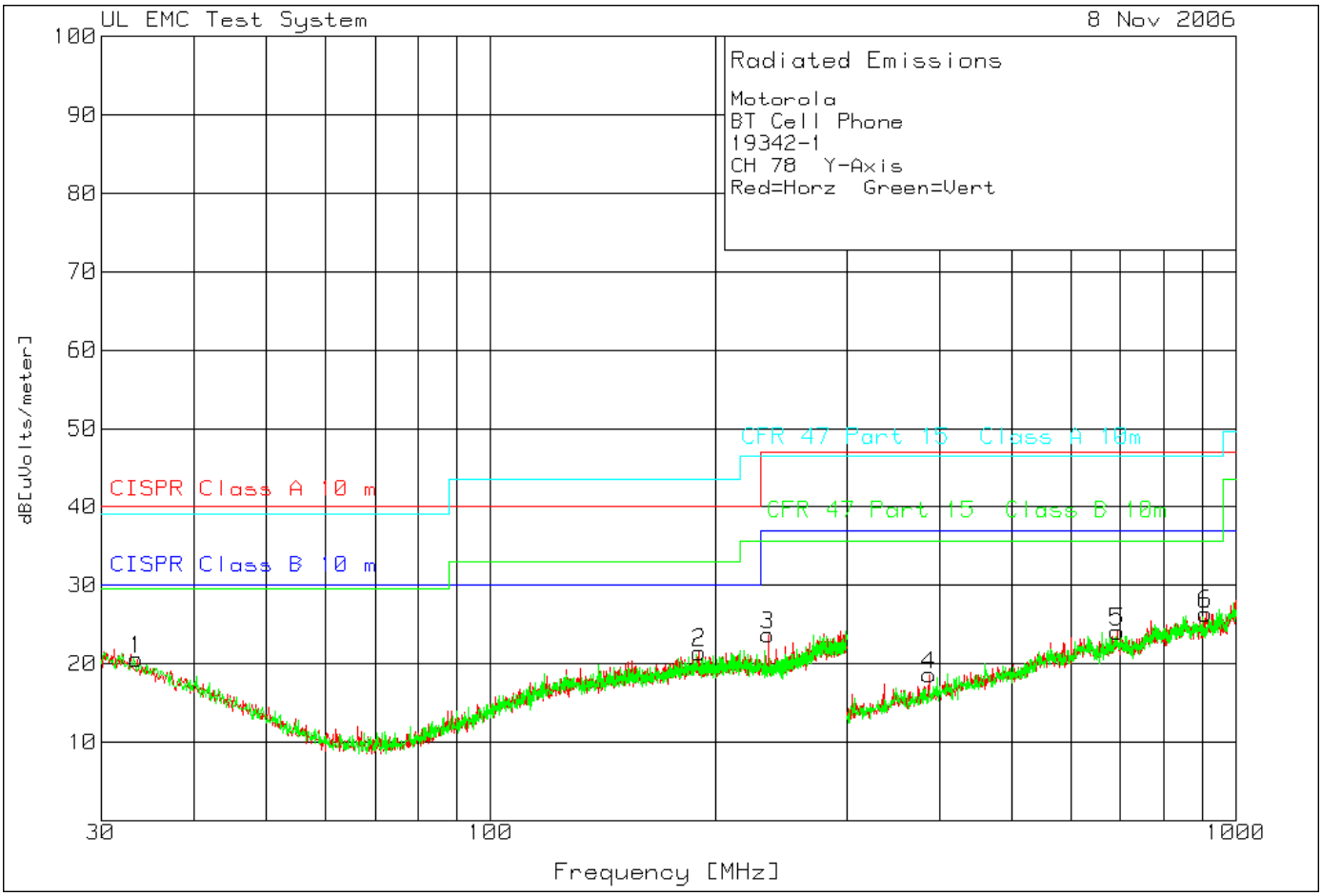

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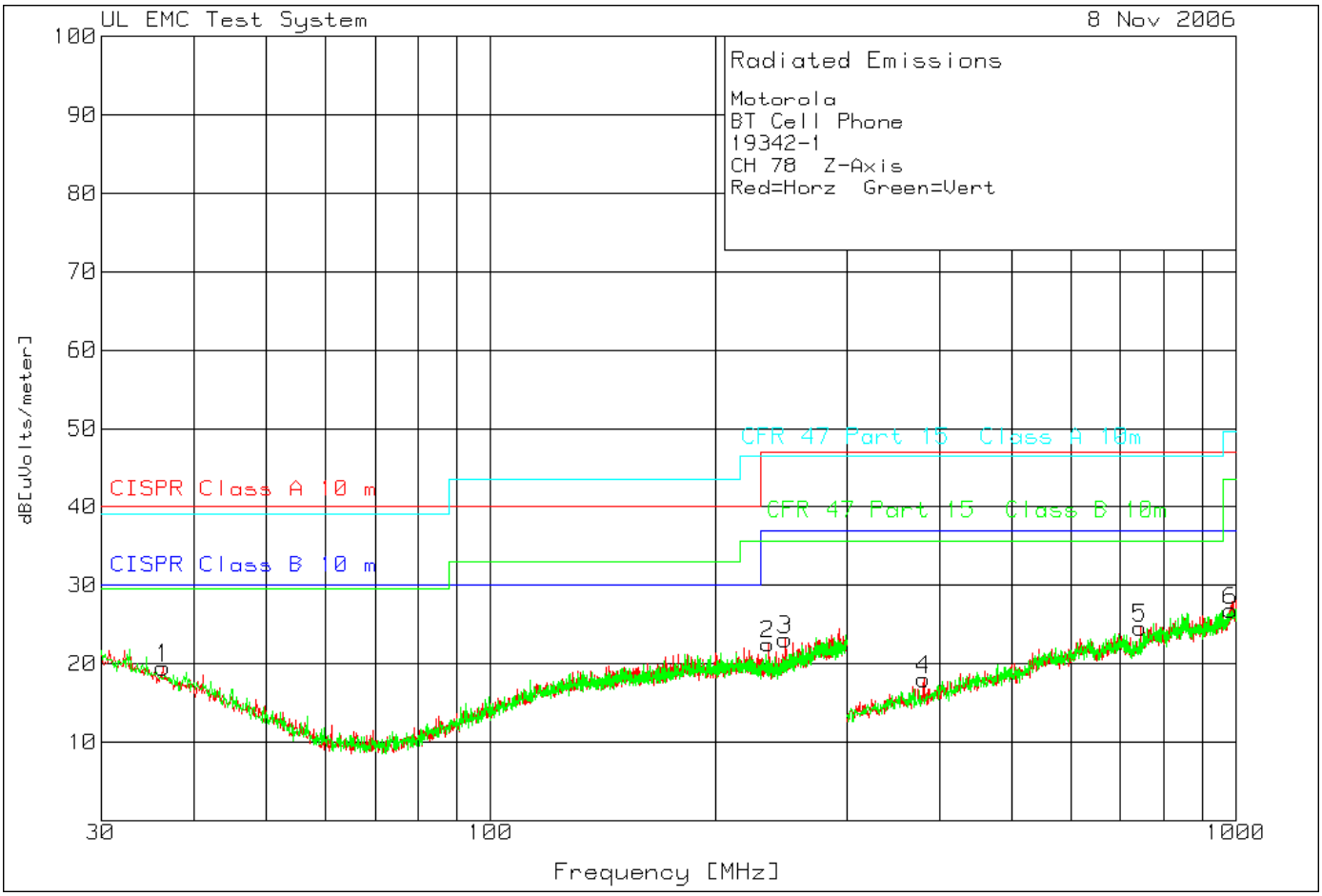
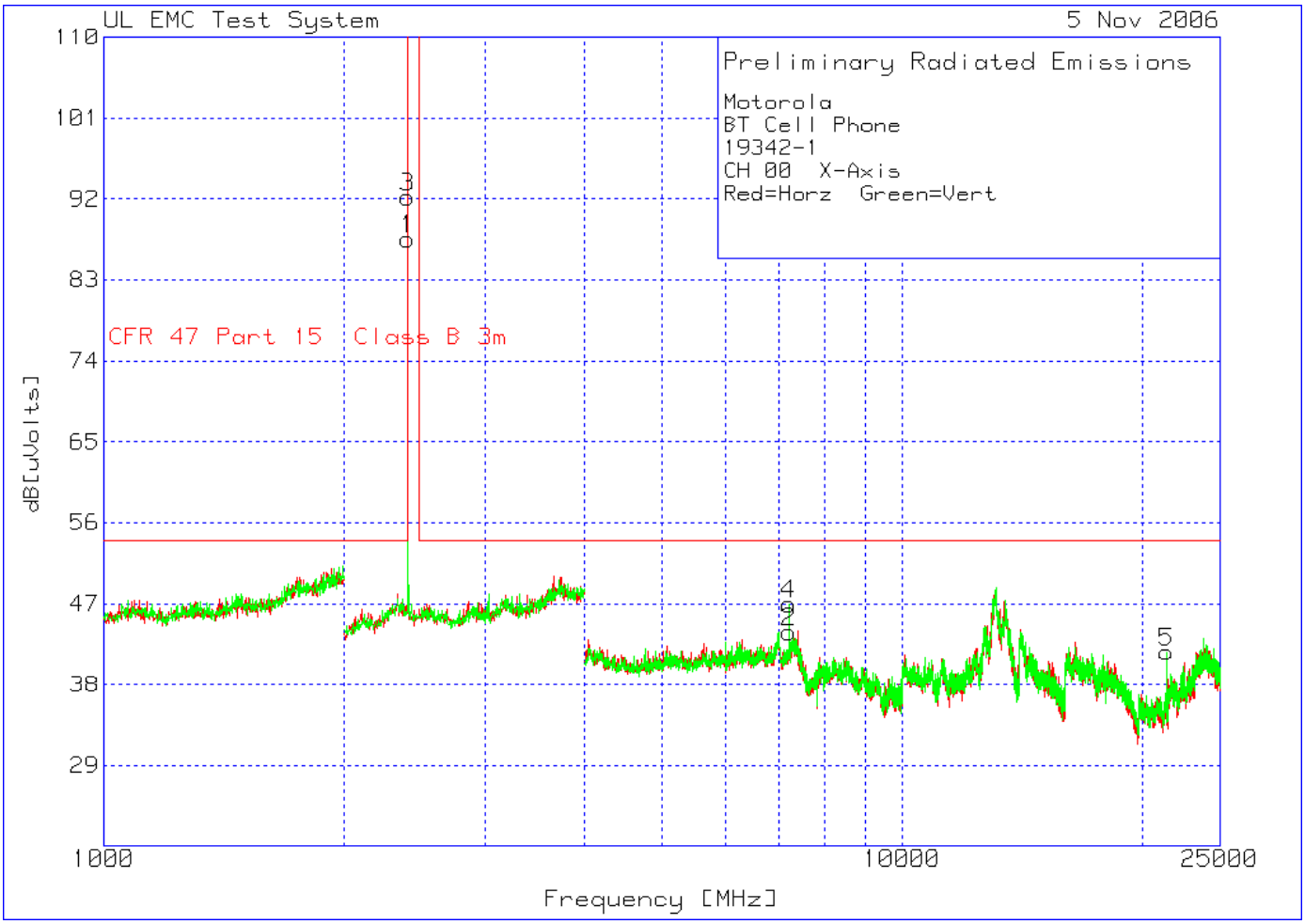


UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-5-2006

Manufacturer	:	**Motorola Inc.**
Equipment Under Test	:	**19342 -1 Cell Phone**
Requirement	:	**CFR 47 Part 15 Class B**
Detection Mode	:	Peak (pk)
Bandwidth	:	1 MHz
Measurement Distance	:	3 meter
Antenna Type	:	1-25GHz Horn Antenna Array



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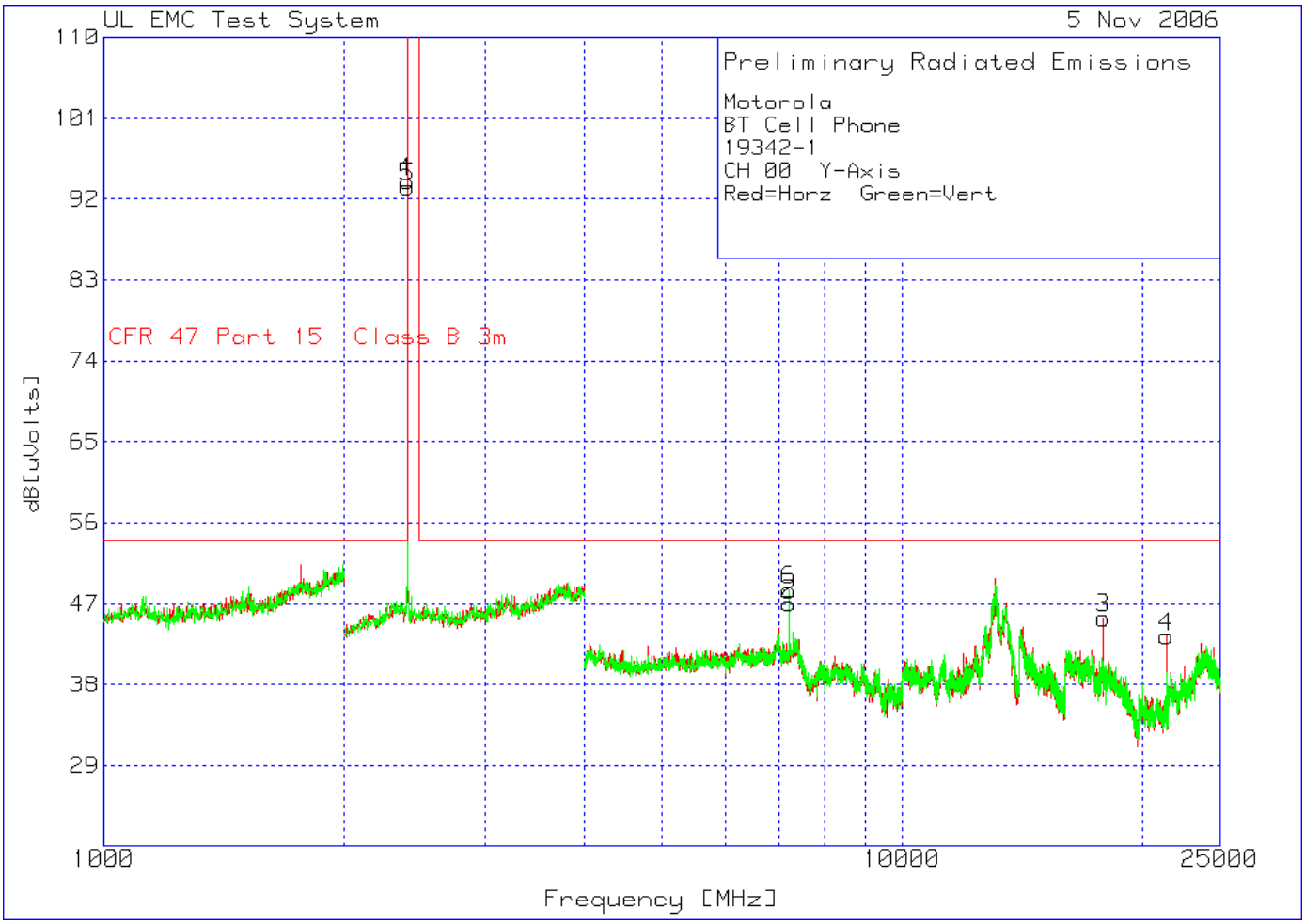

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Radiated Emissions

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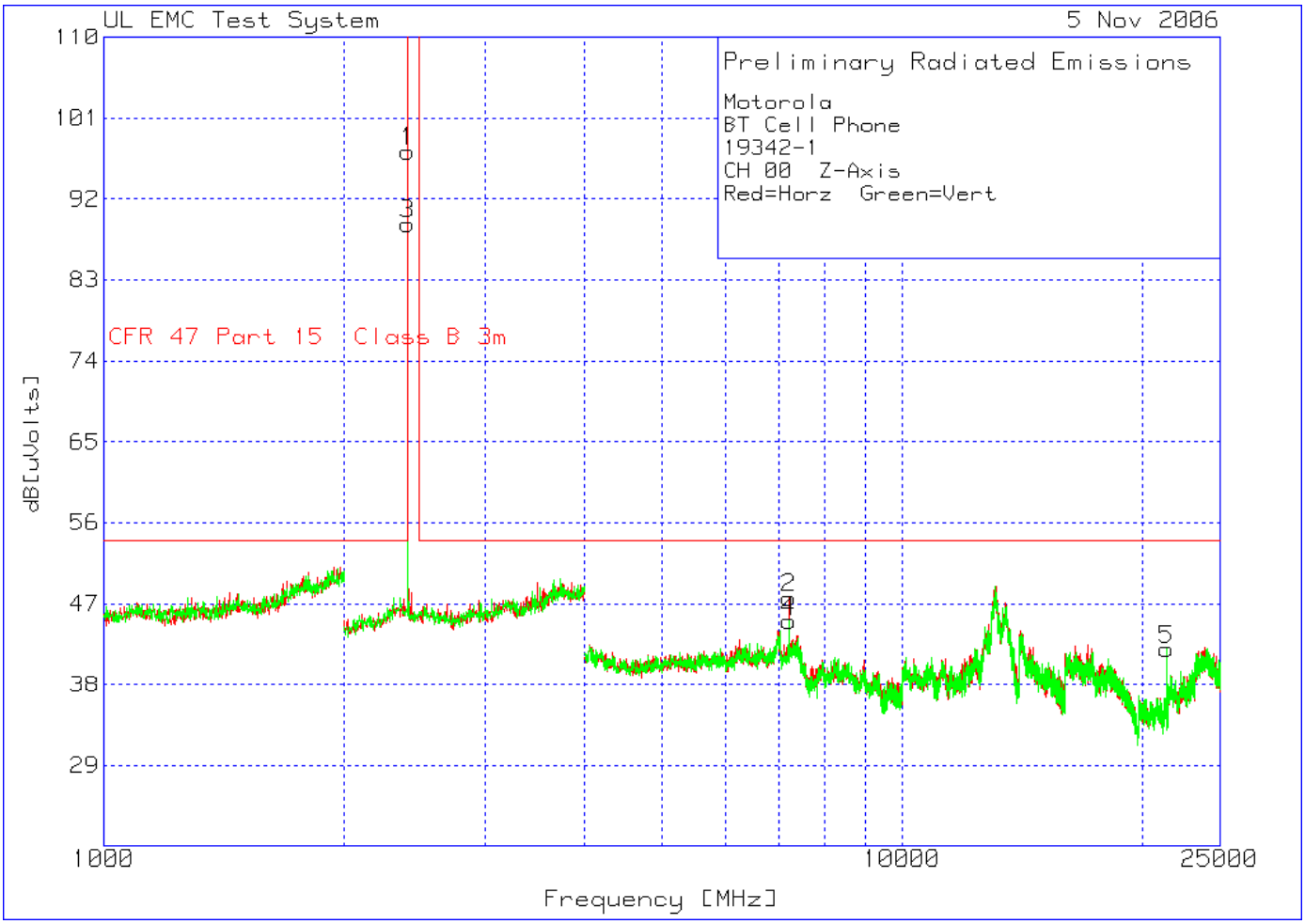

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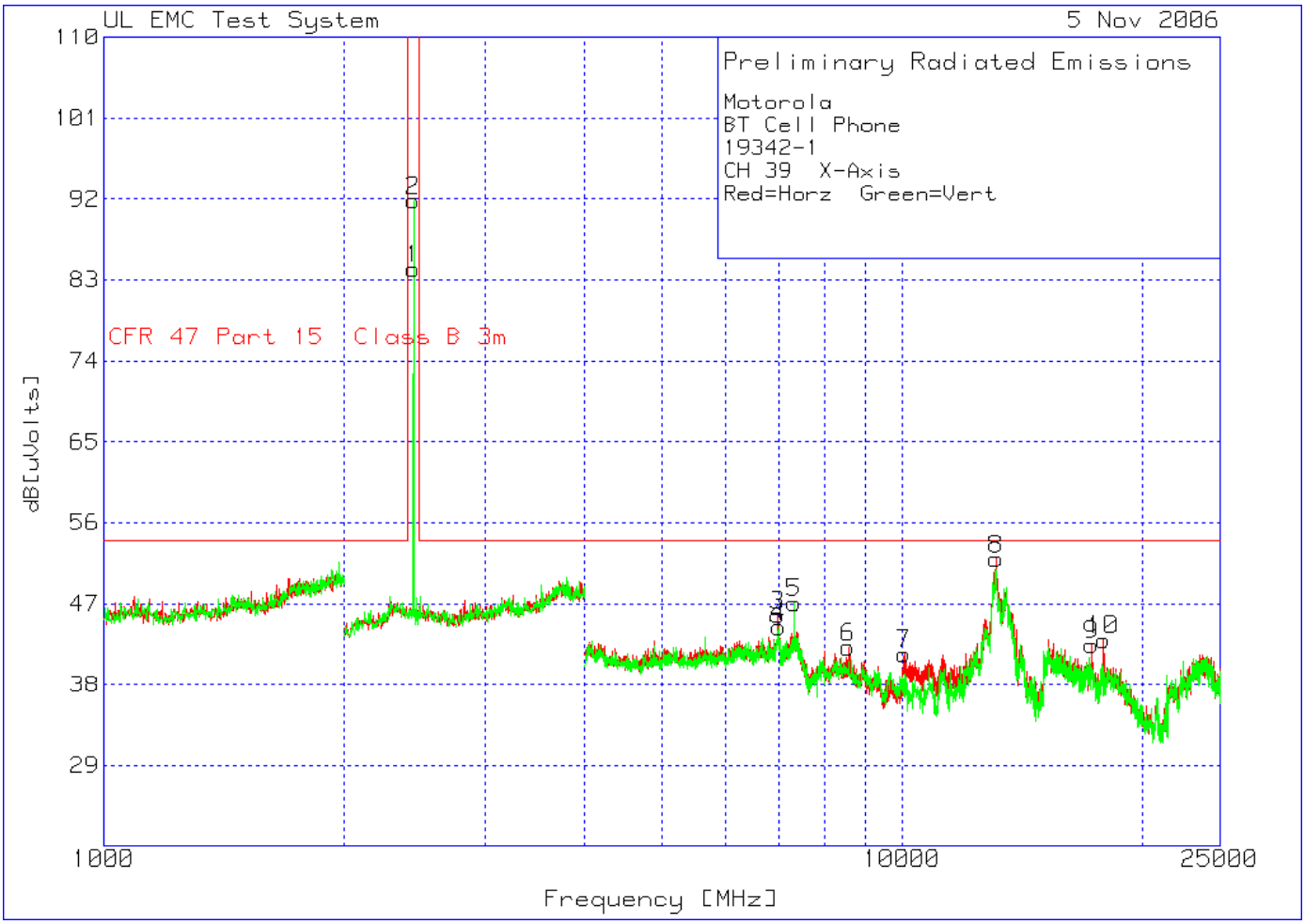

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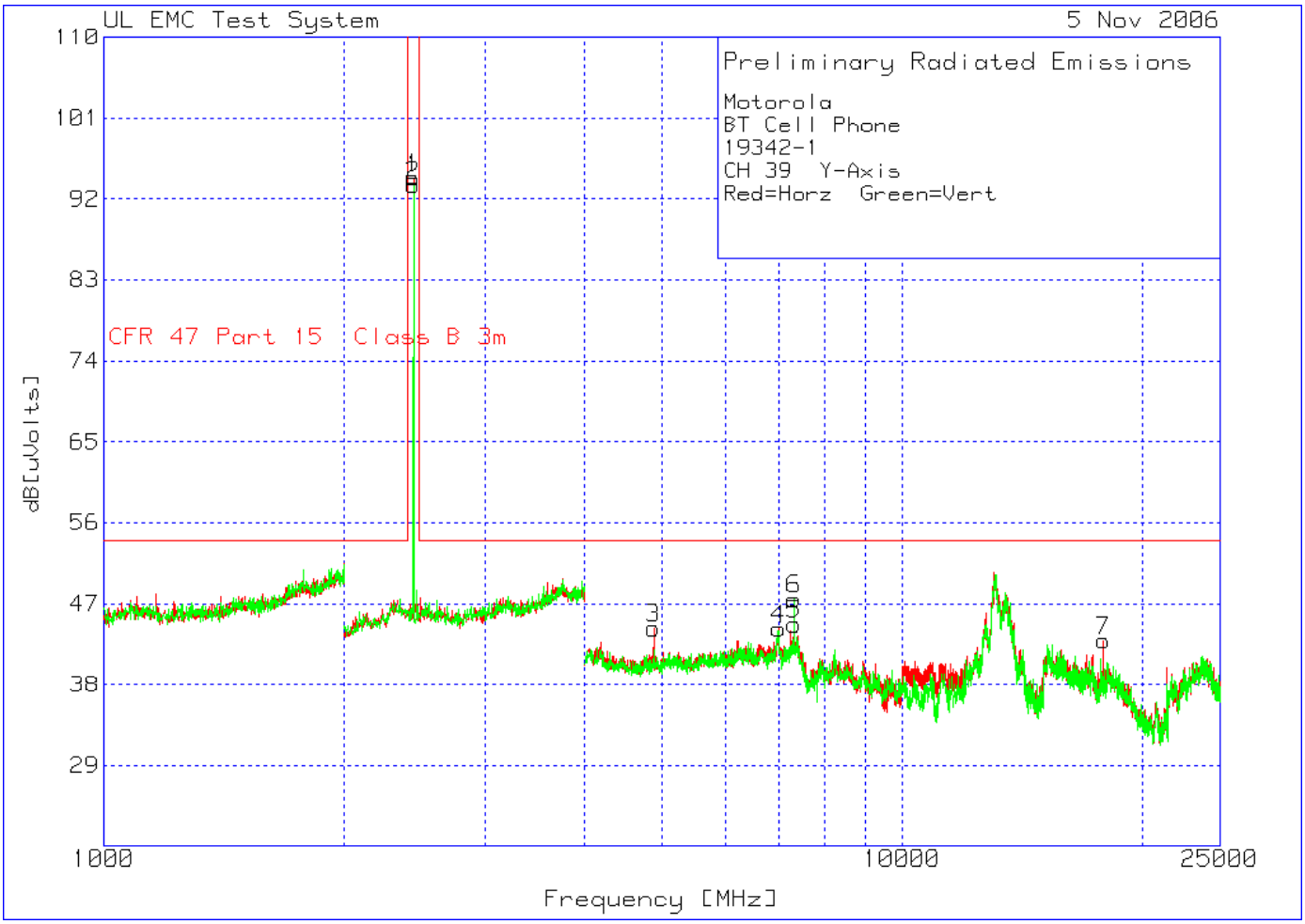

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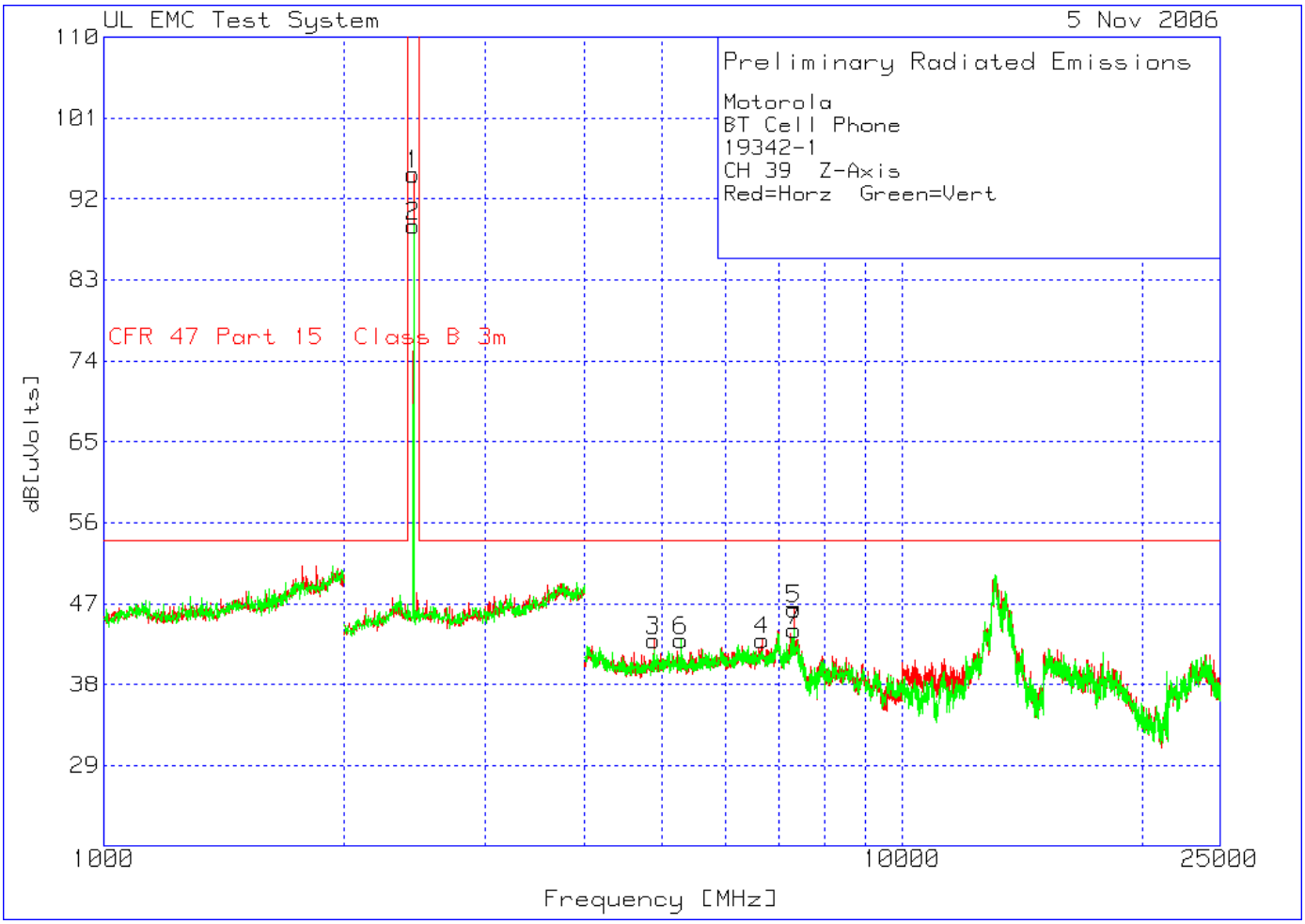

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Radiated Emissions

Date Tested: 11-5-2006

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Requirement	:	**CFR 47 Part 15 Class B**
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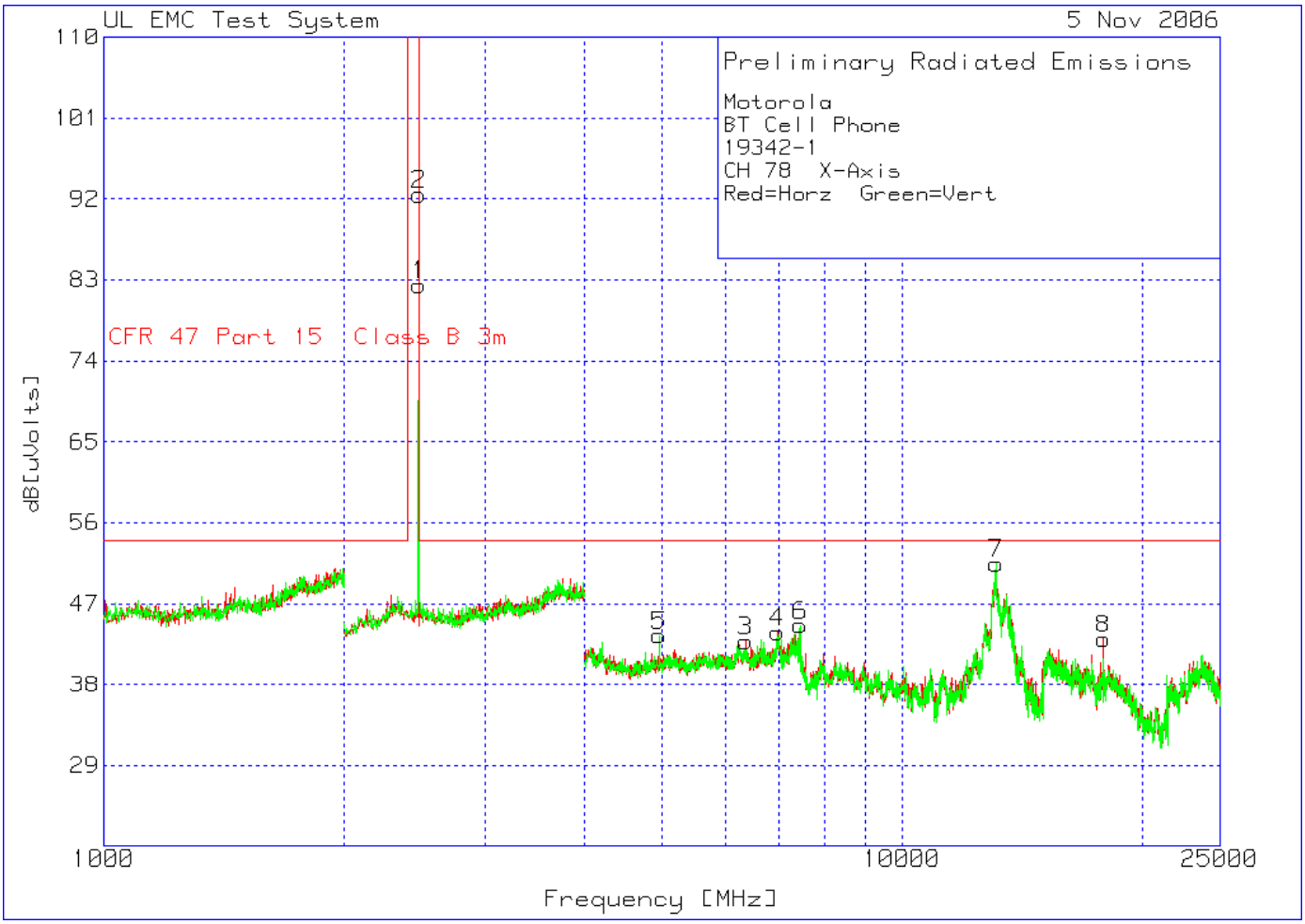

UNDERWRITERS LABORATORIES INC.
Radiated Emissions

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Bandwidth	:	1 MHz
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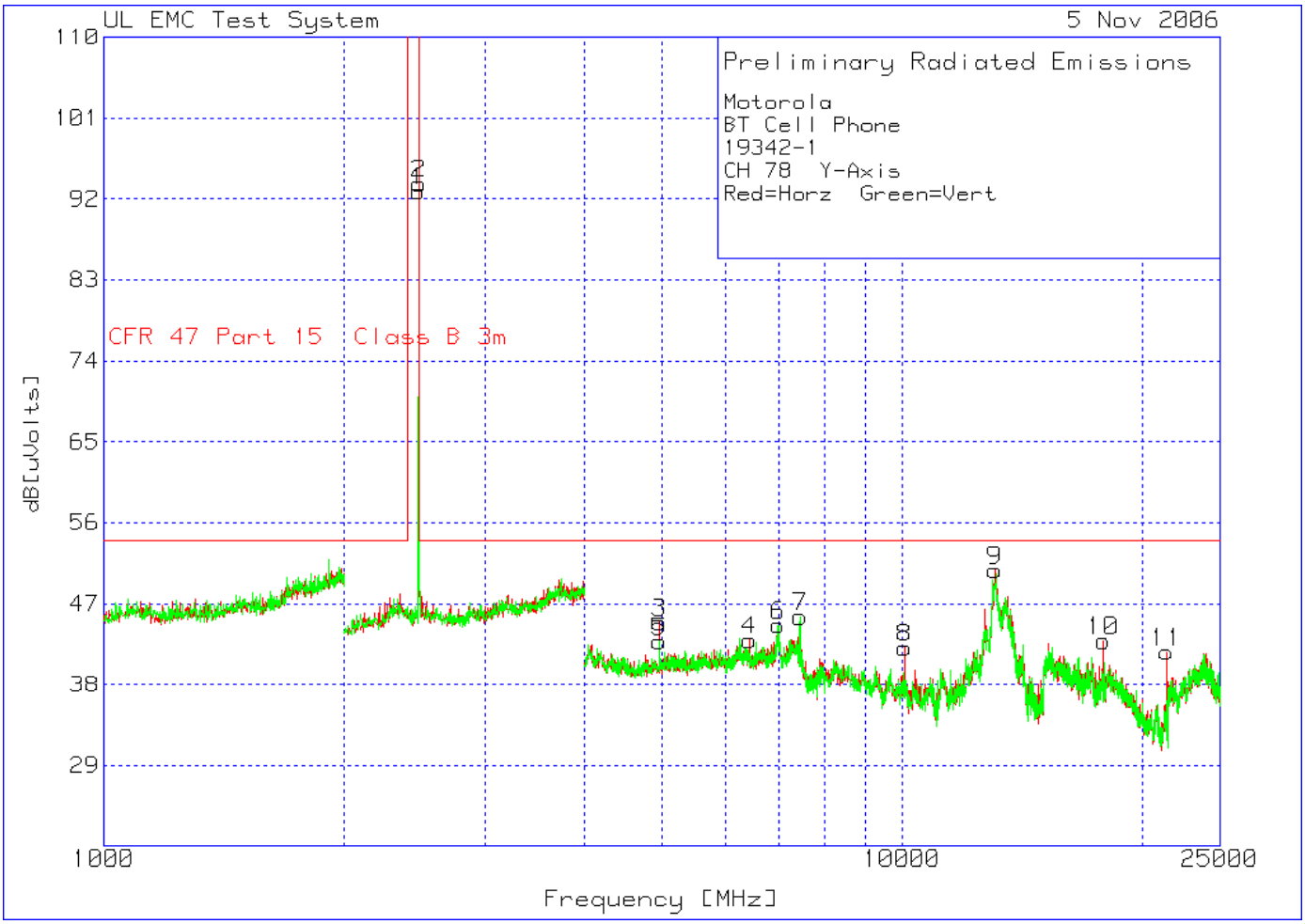

UNDERWRITERS LABORATORIES INC.
Radiated Emissions

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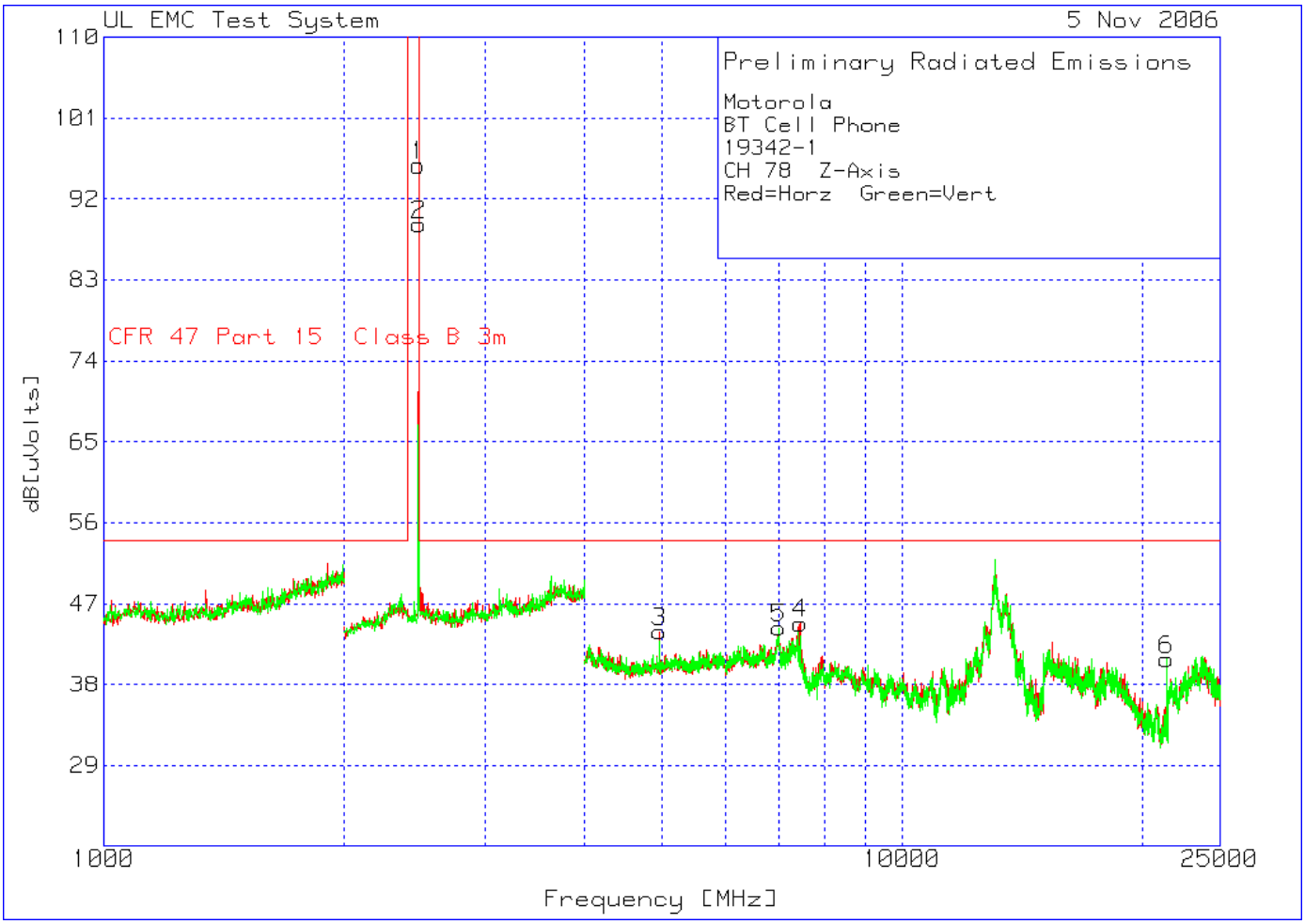


UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-5-2006

Manufacturer : **Motorola Inc.**
Equipment Under Test : **19342 -1 Cell Phone**
Requirement : **CFR 47 Part 15 Class B**
Detection Mode : Average (VBW=10Hz)
Bandwidth : 1 MHz
Measurement Distance : 3 meter
Antenna Type : 1-25GHz Horn

FINAL AVERAGE DATA

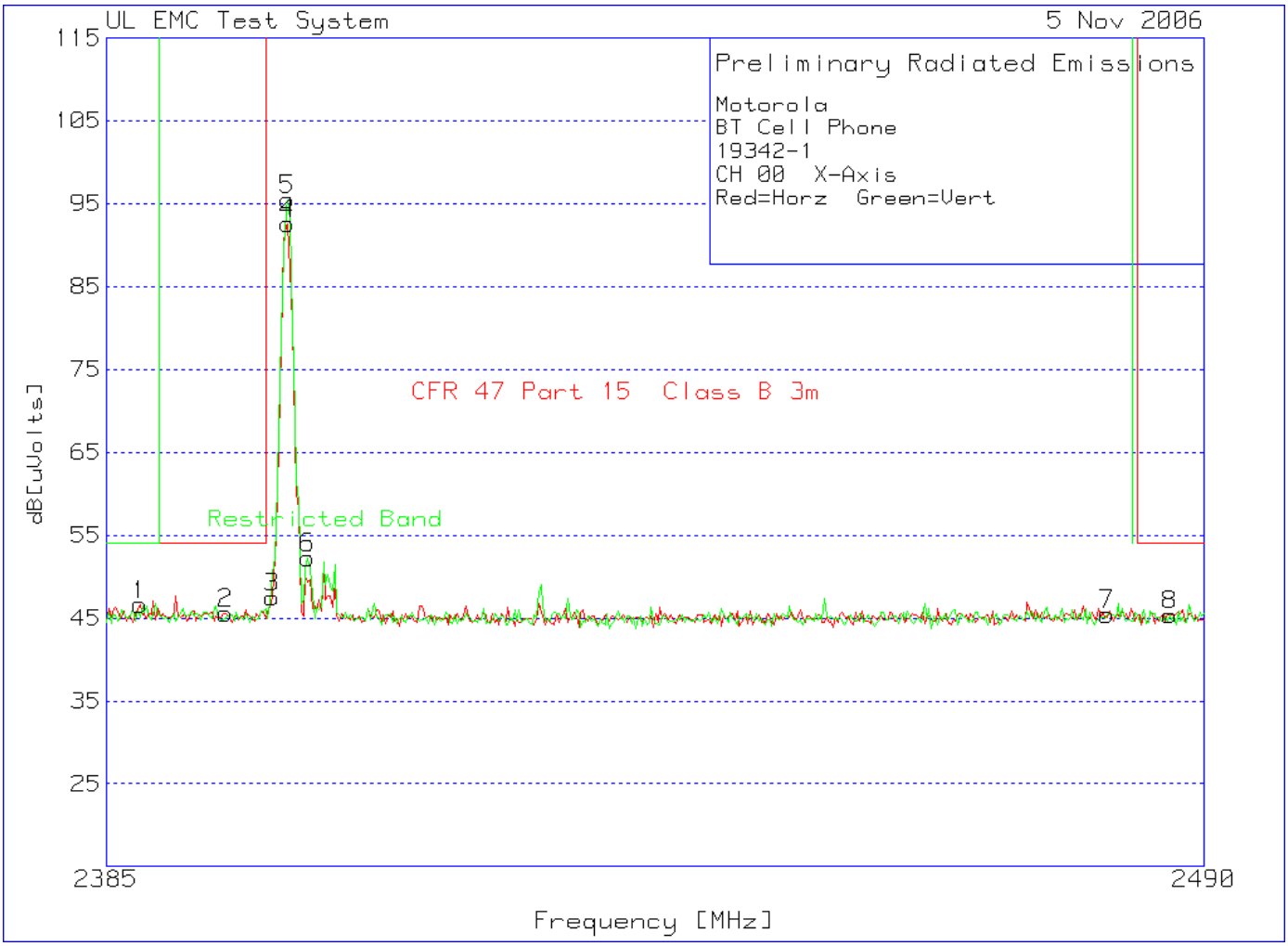
Channel	Axis	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uV]	Limit	Margin 1[dB]	Azimuth [degs]	Height [cm]	Polarity
39	X	13093.09	46.79	av	-33.7	39.8	52.89	54	-1.11	56	108	Horz
78	X	13036.866	47.23	av	-34.8	39.8	52.23	54	-1.77	60	100	Vert
78	Y	13056.293	47.12	av	-34.2	39.8	52.72	54	-1.28	4	100	Horz

Preliminary peak scans were performed in low, mid and high channels as well as with EUT configured along X, Y and Z orthogonal axis. Final maximized (azimuth and height) measurements were then performed under worst-case configuration as determined during preliminary measurement.

UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-5-2006

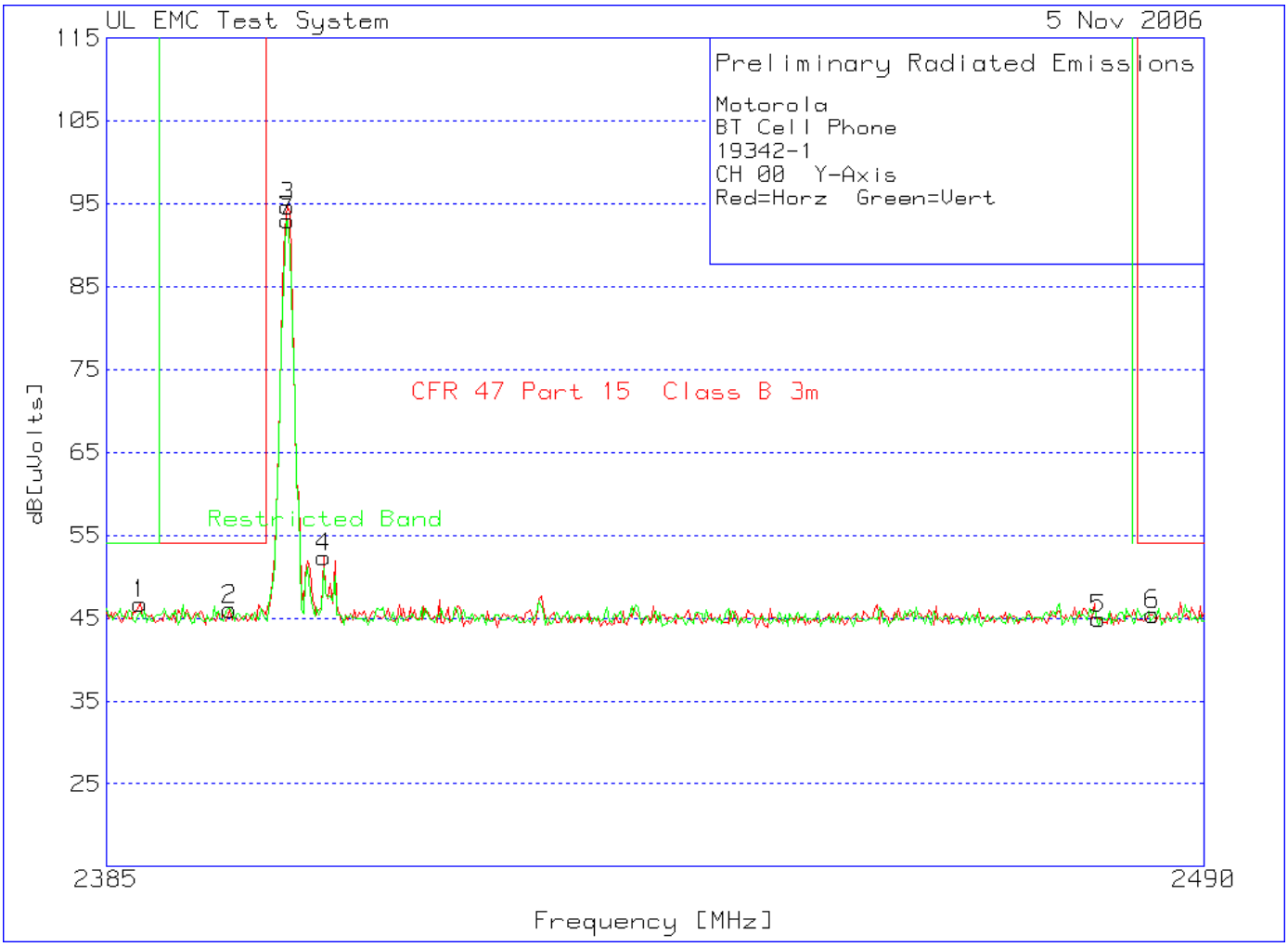
Manufacturer	:	**Motorola Inc.**
Equipment Under Test	:	**19342 -1 Cell Phone (Inband)**
Requirement	:	**CFR 47 Part 15 Class B**
Detection Mode	:	Peak (pk)
Bandwidth	:	1 MHz
Measurement Distance	:	3 meter
Antenna Type	:	2-4GHz Horn



UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-5-2006

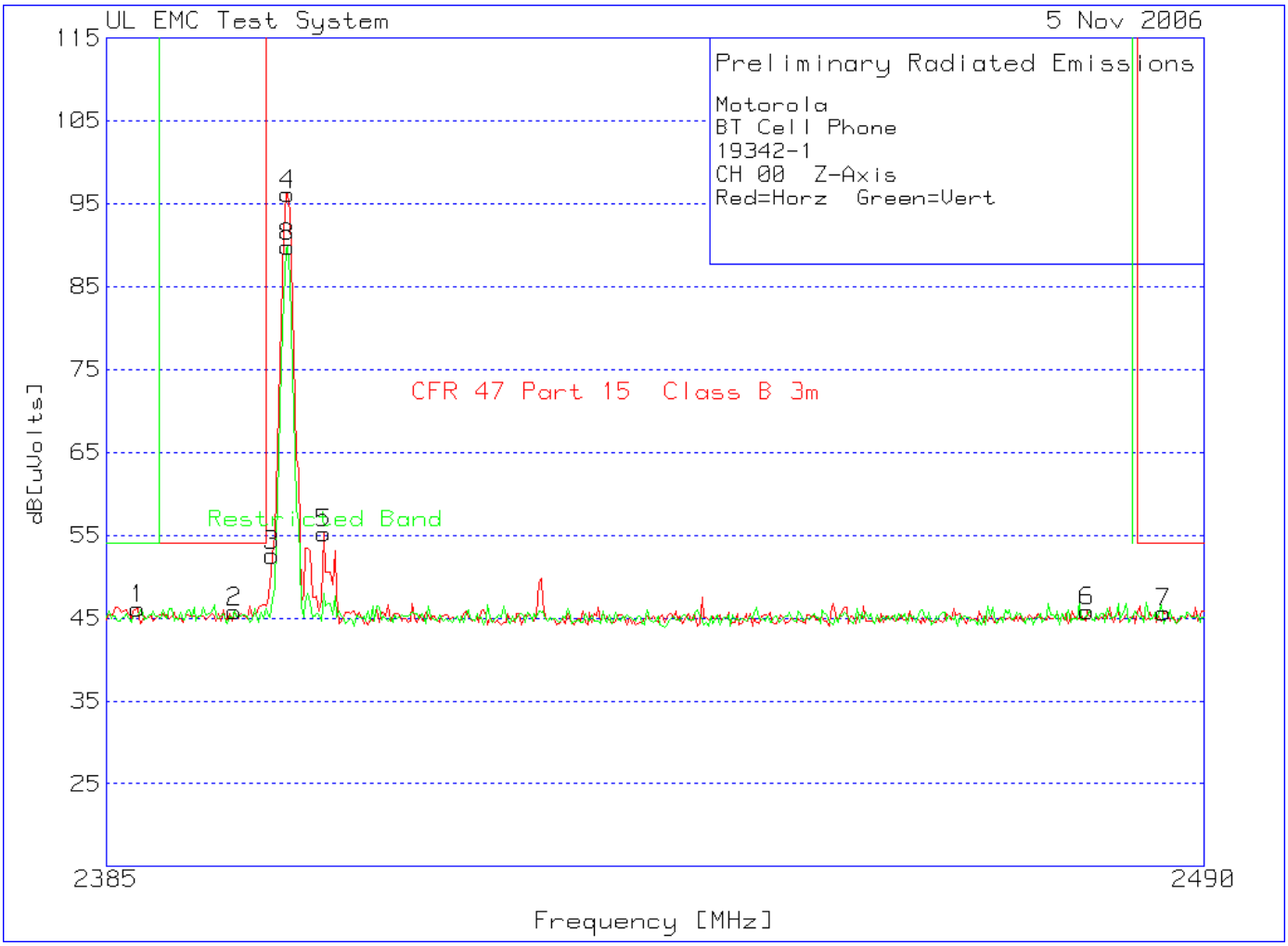
Manufacturer	:	**Motorola Inc.**
Equipment Under Test	:	**19342 -1 Cell Phone (Inband)**
Requirement	:	**CFR 47 Part 15 Class B**
Detection Mode	:	Peak (pk)
Bandwidth	:	1 MHz
Measurement Distance	:	3 meter
Antenna Type	:	2-4GHz Horn



UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-5-2006

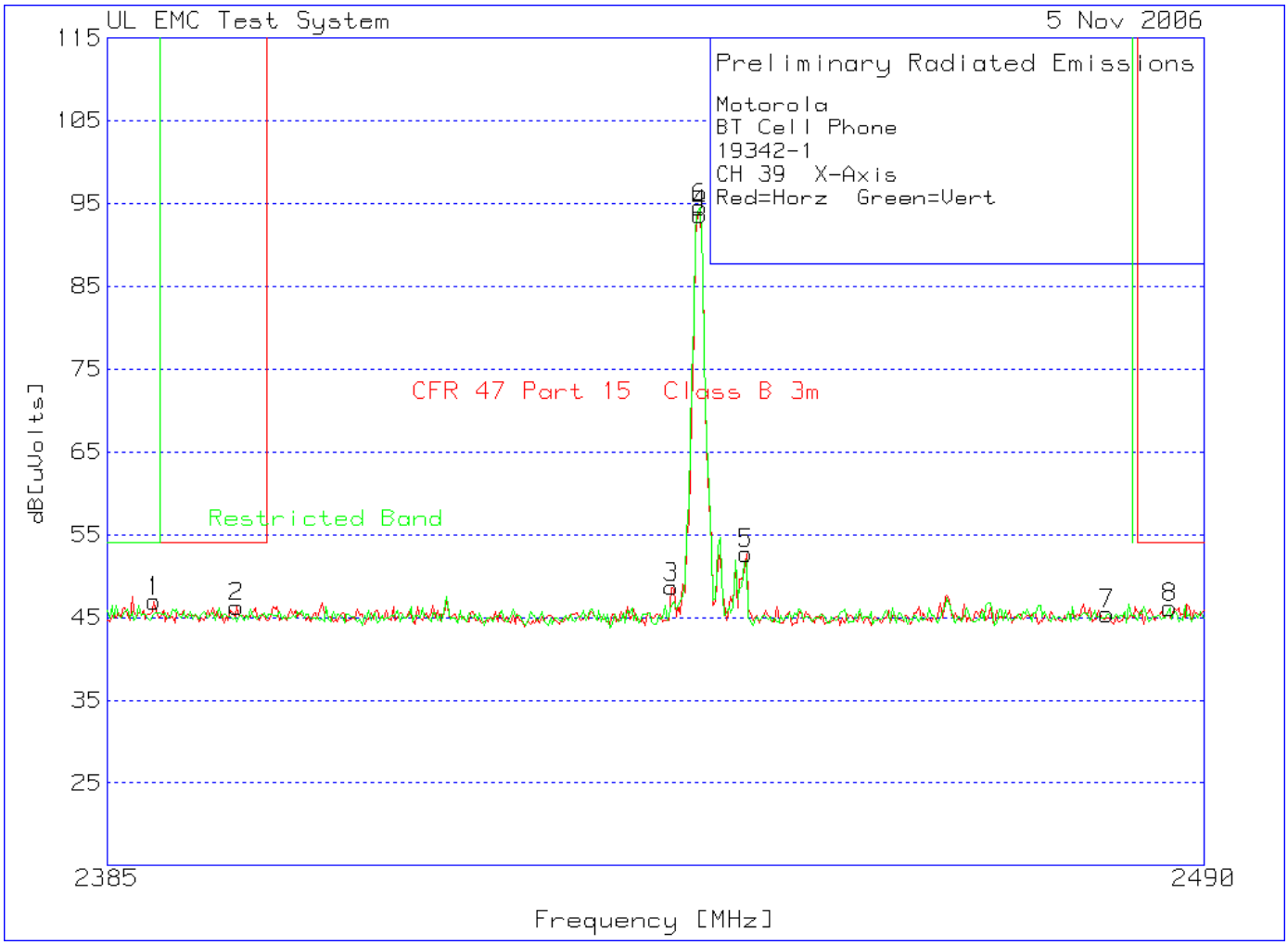
Manufacturer	:	**Motorola Inc.**
Equipment Under Test	:	**19342 -1 Cell Phone (Inband)**
Requirement	:	**CFR 47 Part 15 Class B**
Detection Mode	:	Peak (pk)
Bandwidth	:	1 MHz
Measurement Distance	:	3 meter
Antenna Type	:	2-4GHz Horn



UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-5-2006

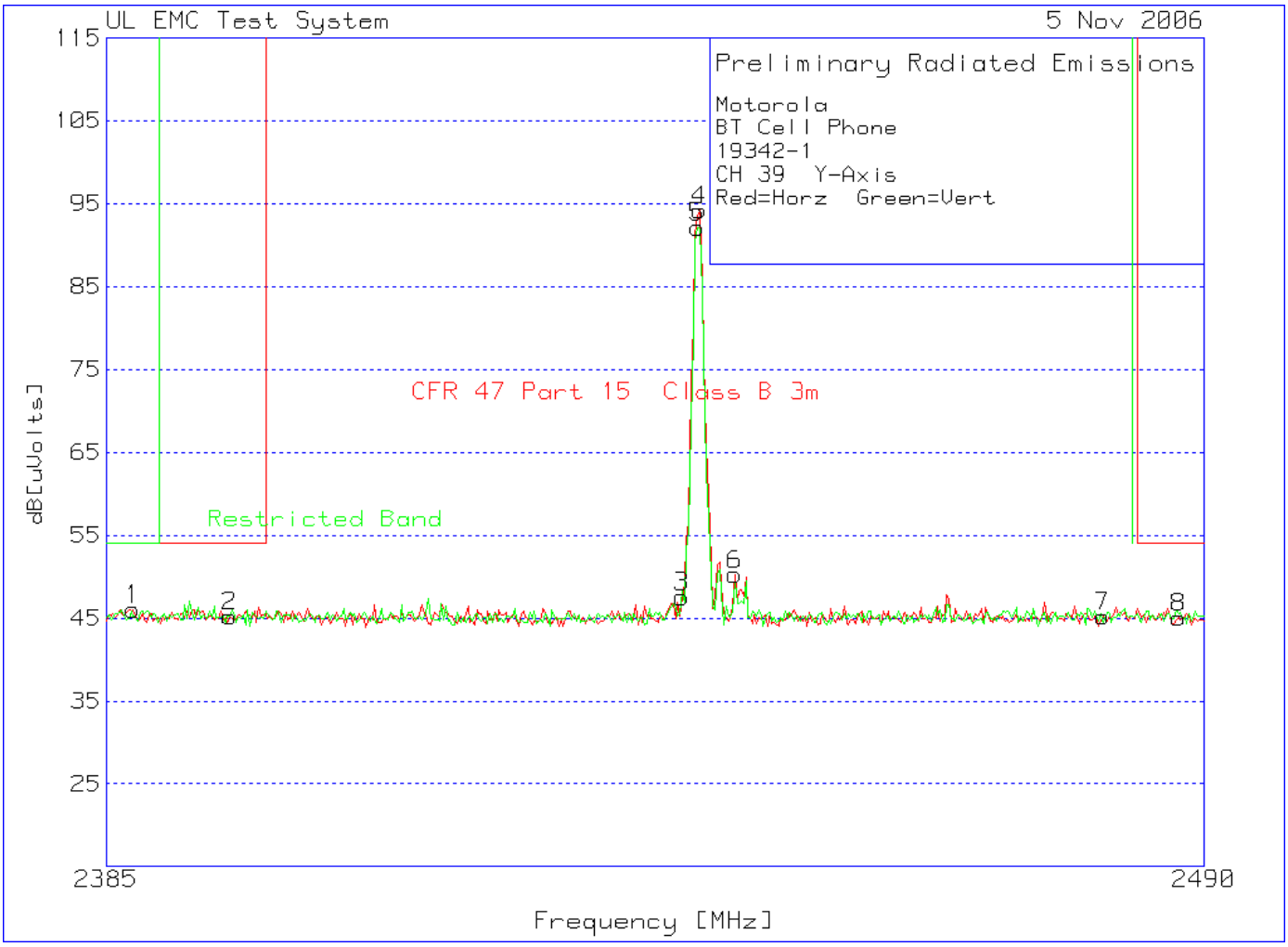
Manufacturer	:	**Motorola Inc.**
Equipment Under Test	:	**19342 -1 Cell Phone (Inband)**
Requirement	:	**CFR 47 Part 15 Class B**
Detection Mode	:	Peak (pk)
Bandwidth	:	1 MHz
Measurement Distance	:	3 meter
Antenna Type	:	2-4GHz Horn



UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-5-2006

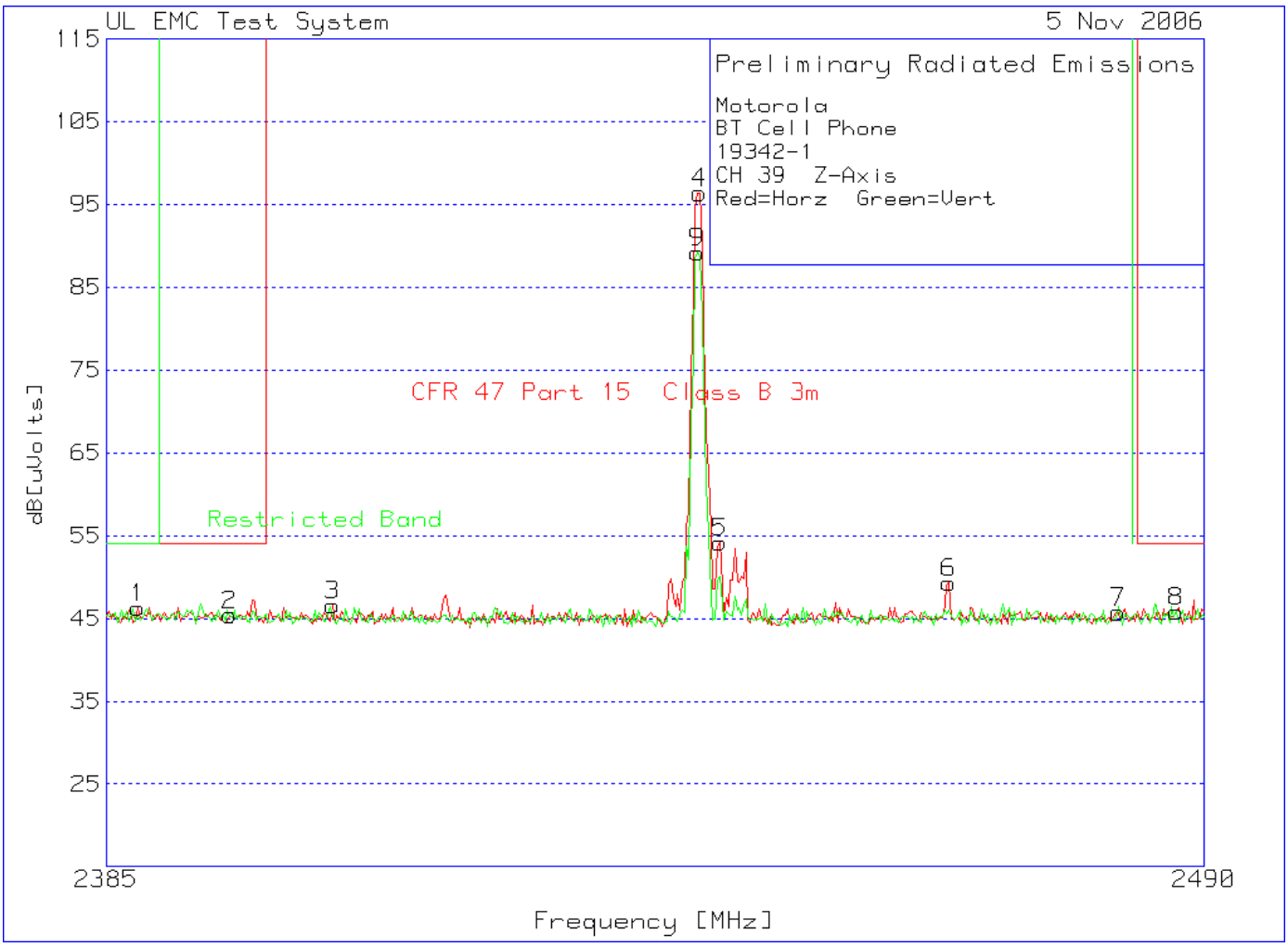
Manufacturer	:	**Motorola Inc.**
Equipment Under Test	:	**19342 -1 Cell Phone (Inband)**
Requirement	:	**CFR 47 Part 15 Class B**
Detection Mode	:	Peak (pk)
Bandwidth	:	1 MHz
Measurement Distance	:	3 meter
Antenna Type	:	2-4GHz Horn



UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-5-2006

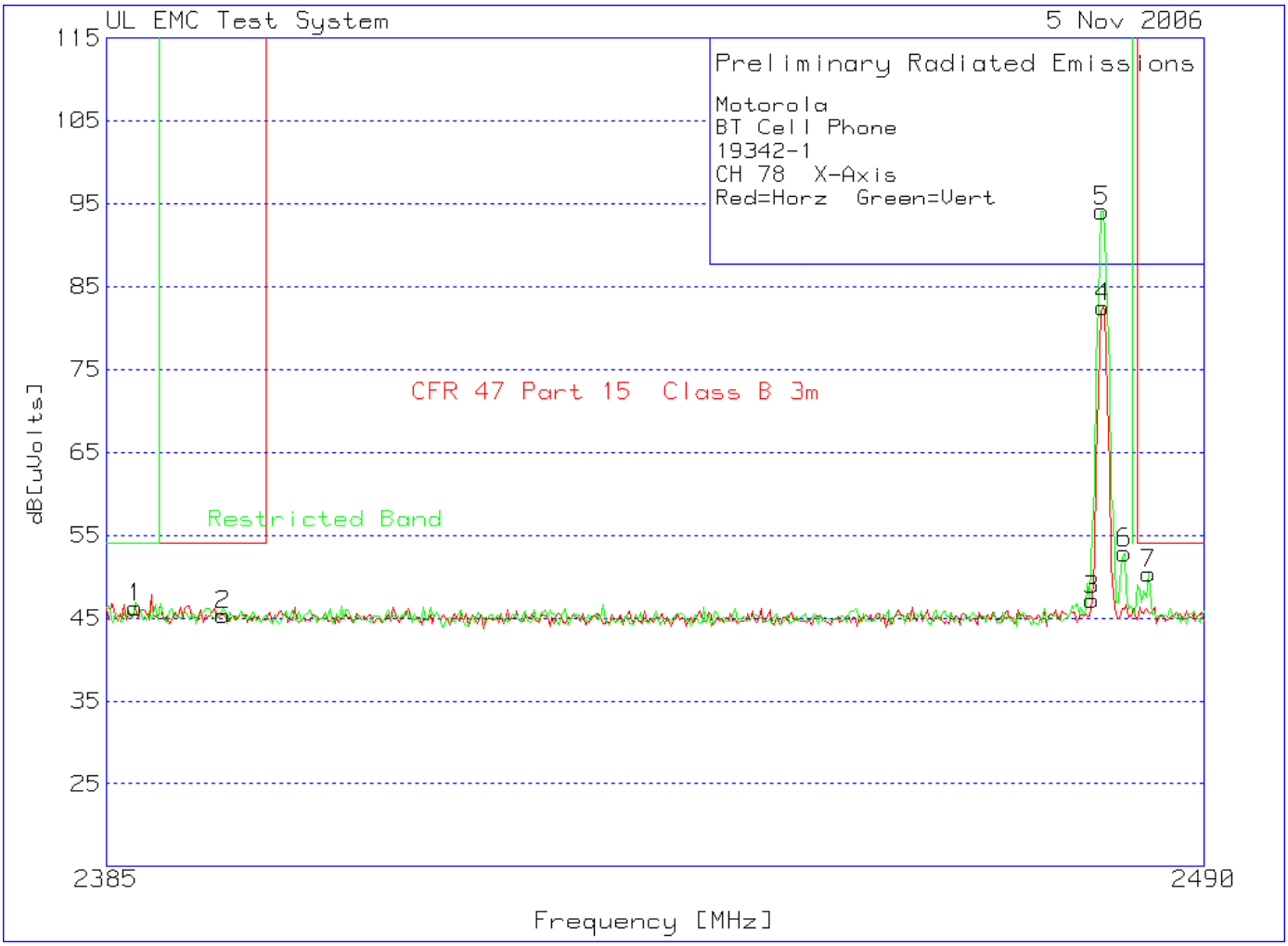
Manufacturer	:	**Motorola Inc.**
Equipment Under Test	:	**19342 -1 Cell Phone (Inband)**
Requirement	:	**CFR 47 Part 15 Class B**
Detection Mode	:	Peak (pk)
Bandwidth	:	1 MHz
Measurement Distance	:	3 meter
Antenna Type	:	2-4GHz Horn



UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-5-2006

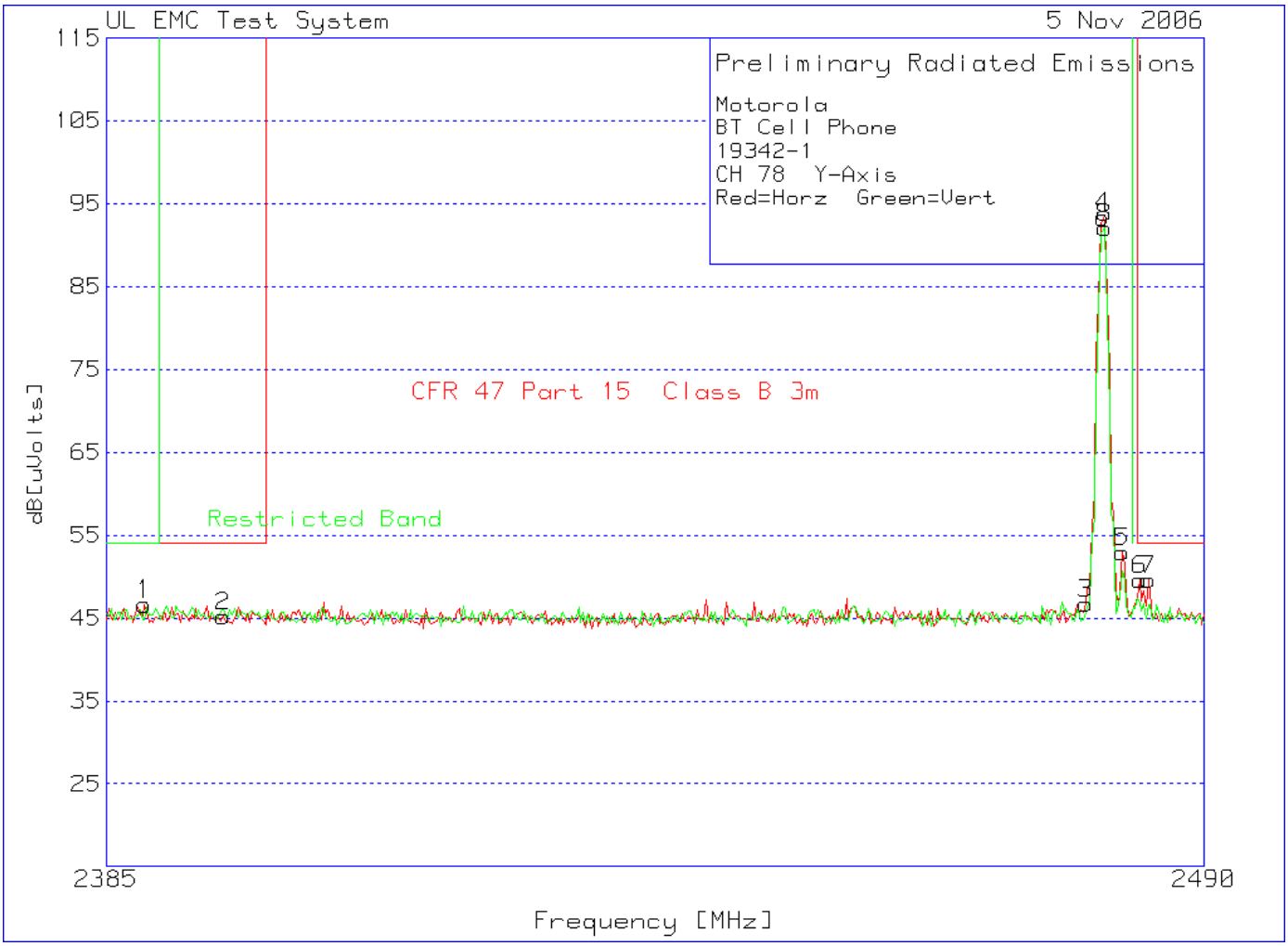
Manufacturer	:	**Motorola Inc.**
Equipment Under Test	:	**19342 -1 Cell Phone (Inband)**
Requirement	:	**CFR 47 Part 15 Class B**
Detection Mode	:	Peak (pk)
Bandwidth	:	1 MHz
Measurement Distance	:	3 meter
Antenna Type	:	2-4GHz Horn



UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-5-2006

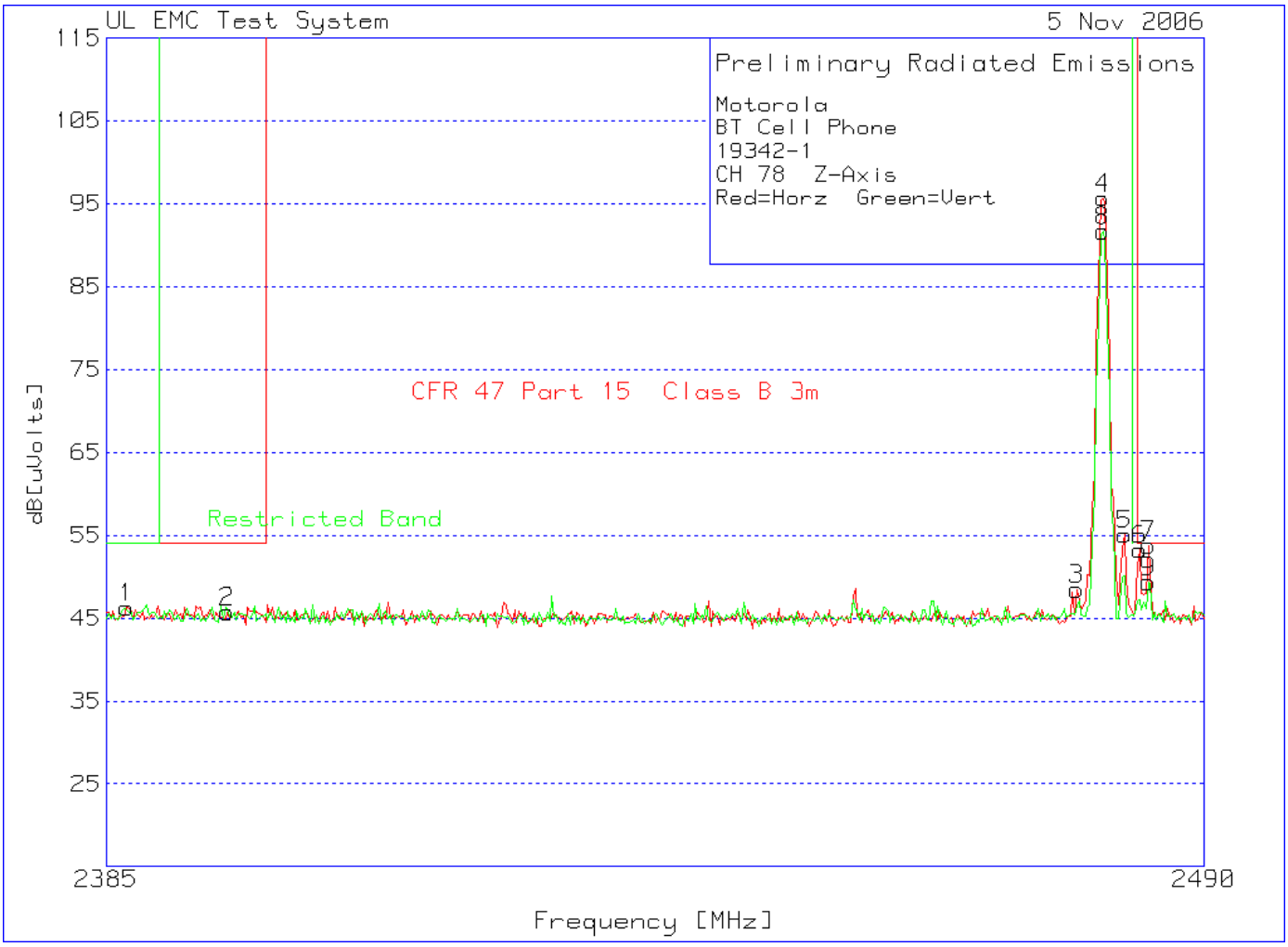
Manufacturer	:	**Motorola Inc.**
Equipment Under Test	:	**19342 -1 Cell Phone (Inband)**
Requirement	:	**CFR 47 Part 15 Class B**
Detection Mode	:	Peak (pk)
Bandwidth	:	1 MHz
Measurement Distance	:	3 meter
Antenna Type	:	2-4GHz Horn



UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-5-2006

Manufacturer	:	**Motorola Inc.**
Equipment Under Test	:	**19342 -1 Cell Phone (Inband)**
Requirement	:	**CFR 47 Part 15 Class B**
Detection Mode	:	Peak (pk)
Bandwidth	:	1 MHz
Measurement Distance	:	3 meter
Antenna Type	:	2-4GHz Horn



UNDERWRITERS LABORATORIES INC.
Radiated Emissions

Date Tested: 11-12-2006

Manufacturer : **Motorola Inc.**
Equipment Under Test : **19342 -1 Cell Phone**
Requirement : **CFR 47 Part 15 Class B**
Detection Mode : Average (VBW=10Hz)
Bandwidth : 1 MHz
Measurement Distance : 3 meter
Antenna Type : 1-25GHz Horn

FINAL AVERAGE DATA

Channel	Axis	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uV]	Limit	Margin 1[dB]	Azimuth [degs]	Height [cm]	Polarity
78	X	2484.529	19.88	av	4.1	22.1	46.08	54	-7.92	294	104	Vert
78	Z	2483.6826	20.46	av	4.1	22.1	46.66	54	-7.34	292	102	Horz
78	Z	2484.529	18.77	av	4.1	22.1	44.97	54	-9.03	296	106	Horz

Preliminary peak scans were performed in low, mid and high channels as well as with EUT configured along X, Y and Z orthogonal axis. Final maximized (azimuth and height) measurements were then performed under worst-case configuration as determined during preliminary measurement.

APPENDIX C

BT Operating Instructions provided by Motorola in an e-mail communication dated November 4, 2006. For confidentiality reasons the information is not provided and it is available upon authorized request.