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Project Number:	11U13924-3
FCC ID	OVFC51213CD
IC	3572A-C5121
Date:	August 21, 2011
Model:	C5121

## Electromagnetic Compatibility Test Report

For

**KYOCERA Communications, Inc.**

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FCC ID           OVFC51213CD  
IC                3572A-C5121  
Model Number:   C5121  
Client Name:     Kyocera Communications

### Test Report Details

Tests Performed By:           **Underwriters Laboratories Inc.**  
                                      **333 Pfingsten Rd.**  
                                      **Northbrook, IL 60062**

Tests Performed For:         **KYOCERA Communications, Inc.**  
                                      **8611 Balboa Ave**  
                                      **San Diego, CA 92123**

Applicant Contact:           **Thuy To**  
Title:                         **Senior Regulatory Engineer**  
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Test Report Date:             **August 11, 2011**

Product Type:                 **CDMA Mobile Phone with Bluetooth**

Product standards             **FCC Part 15, Subpart C 15.247 – (15.207 and 15.209 tests),**  
                                      **RSS-210, RSS-GEN**

Model Number:                **C5121**  
FCC ID                         **OVFC51213CD**  
IC                              **3572A-C5121**

Sample Serial Number         **A0000012FF2346**

EUT Category:                 **Transceiver**

Testing Start Date:            **July 14, 2011**

Date Testing Complete:        **August 8, 2011**

**Overall Results:               Compliant**

Underwriters Laboratories Inc. reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. Underwriters Laboratories Inc. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from Underwriters Laboratories Inc. issued reports. This report shall not be used to claim, constitute or imply product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any agency of the US government.

This report may contain test results that are not covered by the NVLAP or A2LA accreditation. The scope of accreditation is limited to the specific tests that are listed on the NVLAP and/or A2LA websites referenced at the end of this report.

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Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None			

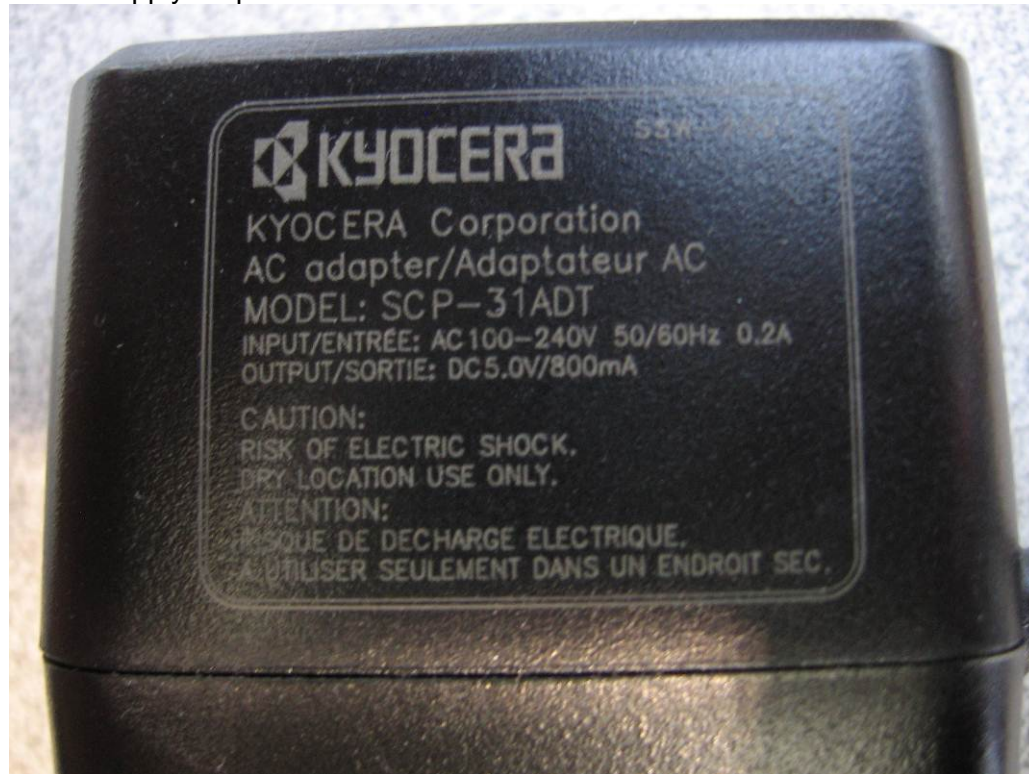
**1.0   G E N E R A L - Product Description**

**1.1   Equipment Description**

The C5121 is a CDMA Mobile Phone with BlueTooth 2.1+EDR.

**1.2   Equipment Marking Plate**

Power supply for phone:



**1.3    Device Configuration During Test**

**1.3.1   Equipment Used During Test:**

Use	Product Type	Manufacturer	Model	Comments
EUT	CDMA Mobile Phone	KYOCERA Communications, Inc.	C5121	None
EUT	Power Supply	KYOCERA Communications, Inc.	SCP-31ADT	Input:100-240Vac 50/60Hz 0.2A Output: 5Vdc 800mA
AE	Ear Phones	-	-	None
AE	Laptop	Lenovo	T410	None

Note: **EUT** - Equipment Under Test, **AE** - Auxiliary/Associated Equipment, or **SIM** - Simulator (Not Subjected to Test)

**1.3.2    Input/Output Ports:**

Port #	Name	Type*	Cable Max. >3m (Y/N)	Cable Shielded (Y/N)	Comments
0	Enclosure	N/E	—	—	None
1	Mains	AC	N	N	None
2	Mains	Batt	-	-	3.7V Rechargeable battery
3	Headphone	I/O	N	N	None
4	USB	I/O	N	N	None

Note:  
 AC    = AC Power Port            DC = DC Power Port            N/E = Non-Electrical  
 I/O   = Signal Input or Output Port (Not Involved in Process Control)  
 TP    = Telecommunication Ports

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 Client Name:     Kyocera Communications

**1.3.3 EUT Internal Operating Frequencies:**

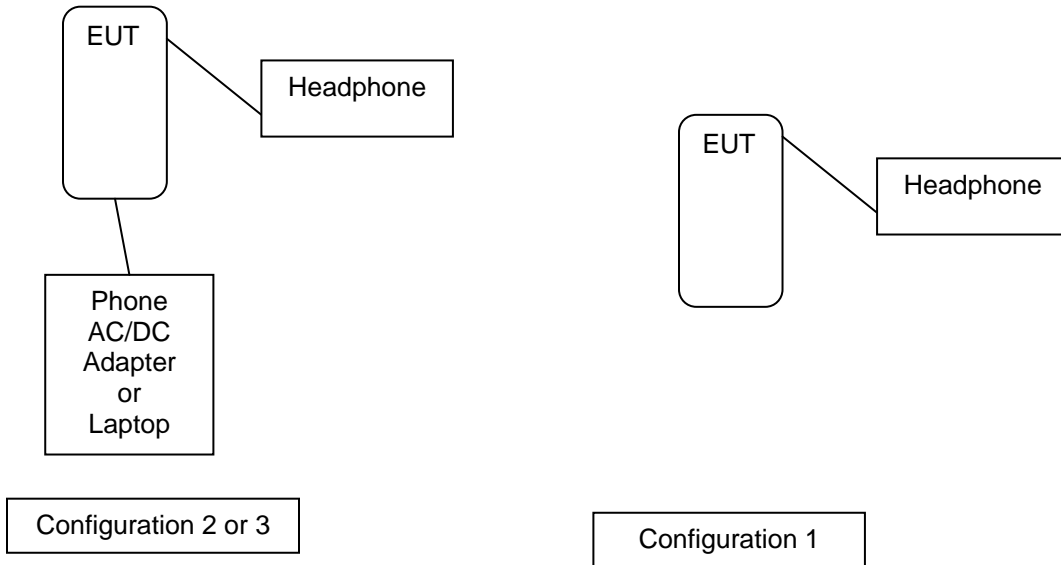
Frequency (MHz)	Description
19.2	TCXO
26	Bluetooth

**1.3.4 Power Interface:**

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
1	Battery Operated	-	-	DC	-	None
2	120Vac	-	-	60Hz	Single	None
3	USB	-	-	DC	-	Connected to Laptop

**1.4    Block Diagram:**

The diagram below illustrates the configuration of the equipment above.



### 1.5    EUT Configurations

Mode #	Description
1	EUT configured in Battery Mode
2	EUT configured in AC mode using AC adapter
3	EUT configured with Laptop via USB cable

Worst case was in Battery mode and the EUT is in Y-axis. This was determined with preliminary measurements

### 1.6    EUT Operation Modes

Mode #	Description
1	EUT set to single channel, DH5, one modulation
2	EUT set to hopping channel, DH5, one modulation



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Client Name:     Kyocera Communications

## 2.0    **Summary**

The tests listed in the Summary of Testing section of this report have been performed and the results recorded by Underwriters Laboratories Inc. in accordance with the procedures stated in each test requirement and specification. The applicant determined the list of tests performed were applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

### 2.1    **Deviations from standard test methods**

None

### 2.2    **Device Modifications Necessary for Compliance**

None

**2.3    Reference Standards**

Standard Number	Standard Name	Standard Date
FCC Part 15, Subpart C	Code of Federal Regulations, Part 15, Radio Frequency Devices	2011
RSS-210, Issue 8	License-Exempt Radio Apparatus (All Frequency Bands): Category I Equipment	December 2010
RSS-Gen, Issue 3	General Requirements and Information for the Certification of Radiocommunication Equipment	December 2010

**2.4    Results Summary**

This product is considered Class B

Requirement – Test	Result (Compliant / Non-Compliant)*
Conducted Emissions	Compliant
Radiated Emissions including Bandedge	Compliant

Test Engineer:



Michael Ferrer (Ext.41312)  
Senior Project Engineer  
International EMC Services  
Conformity Assessment Services-

Reviewer:



Bartlomiej Mucha(Ext.41216)  
Staff Engineer  
International EMC Services  
Conformity Assessment Services

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

### 3.0 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 the manufacturers' recommendation, 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.

### 4.0 EMISSIONS TEST RESULTS

The emissions tests were performed according to following regulations:

----- United States -----

Code of Federal Regulations Title 47	Part 15, Subpart C, Radio Frequency Devices
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----- Canada -----

Radio Standards specifications	RSS-210 — Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment
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Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be verified at the time the test is conducted.

Ambient Temperature, °C	22.5 ± 2.5	Relative Humidity, %	45 ± 15	Barometric Pressure, mBar	950 ± 150
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#### Measurement Uncertainty

Test	Uncertainty
Conducted Emissions	+/- 0.6dB (k=2)
Radiated Emissions	+/- 3.1dB (k=2)

#### Sample Calculations

Radiated Field Strength and Conducted Emissions data contained within this report is calculated on the following basis:

- Field Strength (dBuV/m) = Meter Reading (dBuV) + AF (dB/m) - Gain (dB) + Cable Loss (dB)
- Conducted Voltage (dBuV) = Meter Reading (dBuV) + Cable Loss (dB) + LISN IL (dB)
- Conducted Current (dBuA) = Meter Reading (dBuV) + Cable Loss (dB) - Transducer Factor (dBohms)

**4.1 Test Conditions and Results – MAINS TERMINAL – CONDUCTED EMISSIONS**

Test Description	Measurements were made on a ground plane. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.	
Basic Standard	FCC Part 15.207, RSS-210	
UL LPG	80-EM-S0026	
	Frequency range on each side of line	Measurement Point
Fully configured sample scanned over the following frequency range	150kHz to 30MHz	Mains
<b>Limits - Class B</b>		
Frequency (MHz)	Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Supplementary information: None		

**Table 1 Conducted Emissions EUT Configuration Settings**

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
2	2	2
Supplementary information: None		

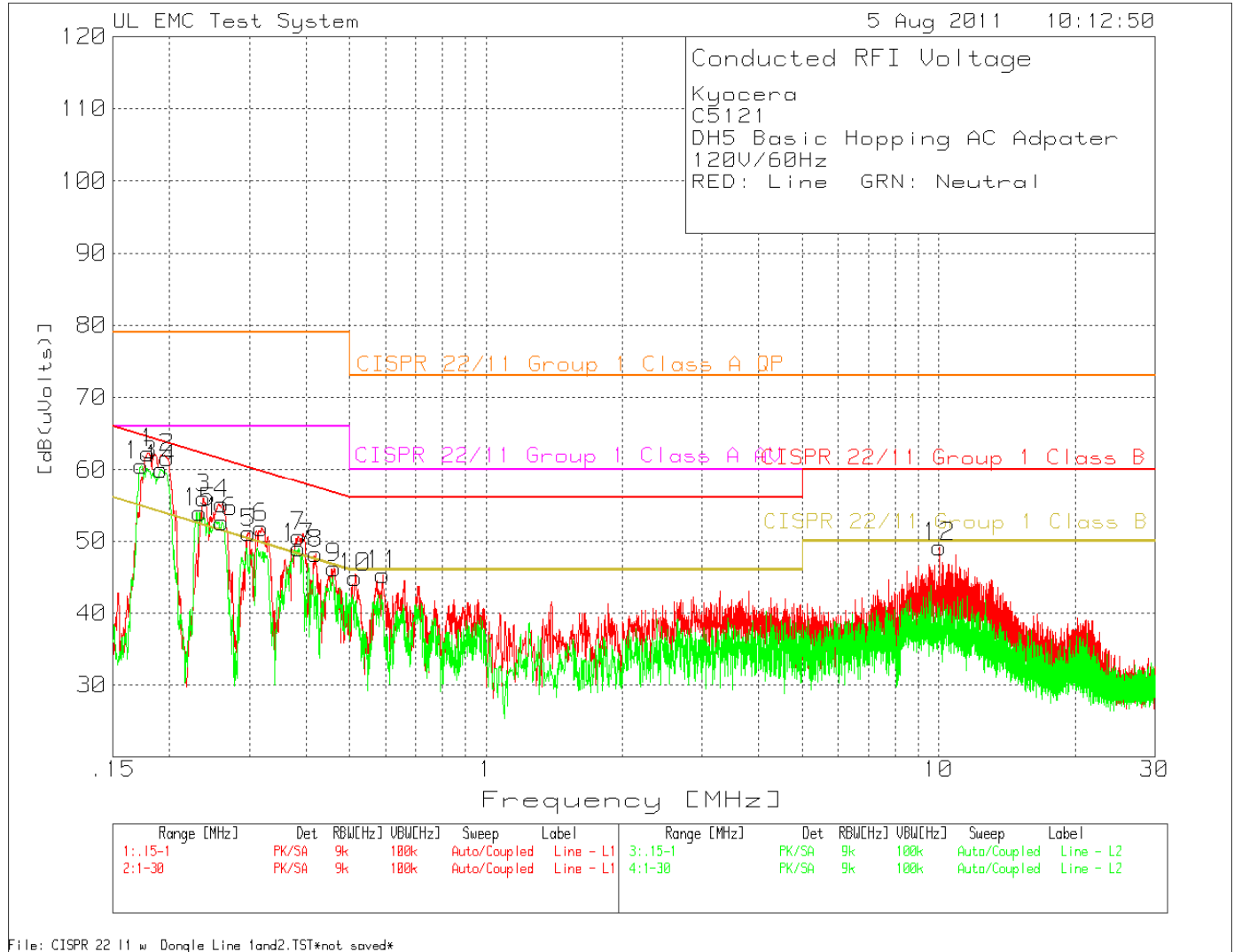
**Table 2 Conducted Emissions Test Equipment**

Description	Manufacturer	Model	Identifier	Cal Date	Cal Due
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC4328	12-28-10	12-30-11
Transient Limiter	Electro-Metrics	EM7600-2	EMC4224	N/A	N/A
HighPass Filter	Solar Electronics	2803-150	EMC4327	N/A	N/A
Attenuator	HP	8494B	2831A00838	N/A	N/A
LISN - L1	Solar	8602-50-TS-50-N	EMC4052	1-6-11	1-6-12
LISN - L2	Solar	8602-50-TS-50-N	EMC4064	1-6-11	1-6-12

**Figure 1 Test Setup for Conducted Emissions**

See Photos exhibit

Figure 2 Conducted Emissions Graph AC Mode



**Table 3 Conducted Emissions Data Points AC Mode**

Kyocera S2300 TRI Basic DH5 Hopping 120V 60Hz Red:Line Green:Neutral									
Line - L1									
Test Frequency	Meter Reading	Detector	EMC4052 L1 9k-30m [dB]	GP5 L1 HPFtr STAtt 0db 150k-3 [dB]	[dB(uVolts)]	CISPR 22/11 Group 1 Class B QP	Margin	CISPR 22/11 Group 1 Class B AV	Margin
0.17909	49.1	PK	1.4	11.8	62.3	64.5	-2.2	54.5	7.8
0.19778	48.79	PK	1.3	11.5	61.59	63.7	-2.11	53.7	7.89
0.23748	43.64	PK	1	11.3	55.94	62.2	-6.26	52.2	3.74
0.26127	43.18	PK	0.8	11.1	55.08	61.4	-6.32	51.4	3.68
0.29949	39.48	PK	0.7	10.9	51.08	60.3	-9.22	50.3	0.78
0.31945	40.4	PK	0.6	10.8	51.8	59.7	-7.9	49.7	2.1
0.38464	39.3	PK	0.5	10.8	50.6	58.2	-7.6	48.2	2.4
0.42031	36.97	PK	0.5	10.7	48.17	57.4	-9.23	47.4	0.77
0.46193	35.08	PK	0.4	10.7	46.18	56.7	-10.52	46.7	-0.52
0.51374	33.76	PK	0.4	10.7	44.86	56	-11.14	46	-1.14
0.59103	34.37	PK	0.3	10.6	45.27	56	-10.73	46	-0.73
10.0256	37.73	PK	0.4	11	49.13	60	-10.87	50	-0.87
0.17992	39.07	QP	1.4	11.7	52.17	64.49	-12.32	54.49	-2.32
0.195897	40.22	QP	1.3	11.5	53.02	63.78	-10.76	53.78	-0.76
0.236965	32.56	QP	1	11.4	44.96	62.2	-17.24	52.2	-7.24
0.259613	32.98	QP	0.9	11.2	45.08	61.44	-16.36	51.44	-6.36
0.299343	28.31	QP	0.7	10.9	39.91	60.26	-20.35	50.26	-10.35
0.318825	32.19	QP	0.6	10.8	43.59	59.74	-16.15	49.74	-6.15
0.383373	33.35	QP	0.5	10.8	44.65	58.21	-13.56	48.21	-3.56
0.419383	26.3	QP	0.5	10.7	37.5	57.46	-19.96	47.46	-9.96
0.460655	26.79	QP	0.4	10.7	37.89	56.68	-18.79	46.68	-8.79
0.512438	26.11	QP	0.4	10.7	37.21	56	-18.79	46	-8.79
0.589873	26.27	QP	0.3	10.6	37.17	56	-18.83	46	-8.83
10.02888	26.53	QP	0.4	11	37.93	60	-22.07	50	-12.07
PK - Peak detector									
QP - Quasi-Peak detector									

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Kyocera S2300 TRI Basic DH5 Hopping 120V 60Hz Red:Line Green:Neutral									
Line - L1									
Test Frequency	Meter Reading	Detector	EMC4052 L1 9k-30m [dB]	GP5 L1 HPFtr STAtt 0db 150k-3 [dB]	[dB(uVolts)]	CISPR 22/11 Group 1 Class B QP	Margin	CISPR 22/11 Group 1 Class B AV	Margin
0.17992	20.11	Av	1.4	11.7	33.21	64.49	-31.28	54.49	-21.28
0.195897	24.7	Av	1.3	11.5	37.5	63.78	-26.28	53.78	-16.28
0.236965	10.74	Av	1	11.4	23.14	62.2	-39.06	52.2	-29.06
0.259613	17.54	Av	0.9	11.2	29.64	61.44	-31.8	51.44	-21.8
0.299343	10.55	Av	0.7	10.9	22.15	60.26	-38.11	50.26	-28.11
0.318825	20.05	Av	0.6	10.8	31.45	59.74	-28.29	49.74	-18.29
0.383373	22.6	Av	0.5	10.8	33.9	58.21	-24.31	48.21	-14.31
0.419383	8.58	Av	0.5	10.7	19.78	57.46	-37.68	47.46	-27.68
0.460655	11.75	Av	0.4	10.7	22.85	56.68	-33.83	46.68	-23.83
0.512438	13.78	Av	0.4	10.7	24.88	56	-31.12	46	-21.12
0.589873	12.94	Av	0.3	10.6	23.84	56	-32.16	46	-22.16
10.02888	17.64	Av	0.4	11	29.04	60	-30.96	50	-20.96
Av - Average detector									

Kyocera S2300 TRI Basic DH5 Hopping 120V 60Hz Red:Line Green:Neutral									
Line - L2									
Test Frequency	Meter Reading	Detector	EMC4052 L1 9k-30m [dB]	GP5 L1 HPFtr STAtt 0db 150k-3 [dB]	[dB(uVolts)]	CISPR 22/11 Group 1 Class B QP	Margin	CISPR 22/11 Group 1 Class B AV	Margin
0.17357	46.97	PK	1.5	12.1	60.57	64.8	-4.23	54.8	5.77
0.19162	47.19	PK	1.3	11.6	60.09	64	-3.91	54	6.09
0.23303	41.43	PK	1	11.5	53.93	62.3	-8.37	52.3	1.63
0.26127	40.52	PK	0.8	11.3	52.62	61.4	-8.78	51.4	1.22
0.38591	37.57	PK	0.5	10.9	48.97	58.2	-9.23	48.2	0.77
0.173815	36.32	QP	1.5	12	49.82	64.78	-14.96	54.78	-4.96
0.191495	38.23	QP	1.3	11.6	51.13	63.97	-12.84	53.97	-2.84
0.23377	29.48	QP	1	11.5	41.98	62.31	-20.33	52.31	-10.33
0.25942	30.88	QP	0.8	11.3	42.98	61.45	-18.47	51.45	-8.47
0.384555	31.28	QP	0.5	10.9	42.68	58.18	-15.5	48.18	-5.5
0.173815	14.3	Av	1.5	12	27.8	64.78	-36.98	54.78	-26.98
0.191495	25.26	Av	1.3	11.6	38.16	63.97	-25.81	53.97	-15.81
0.23377	9.02	Av	1	11.5	21.52	62.31	-40.79	52.31	-30.79
0.25942	16.3	Av	0.8	11.3	28.4	61.45	-33.05	51.45	-23.05
0.384555	19.11	Av	0.5	10.9	30.51	58.18	-27.67	48.18	-17.67
PK - Peak detector									
QP - Quasi-Peak detector									
Av - Average detector									



**4.2    Test Conditions and Results – RADIATED EMISSIONS**

Test Description	Measurements were made in a 10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10-meter and 3 meter as noted. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable. Radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).	
Basic Standard	FCC Part 15, RSS-210	
UL LPG	80-EM-S0029	
	Frequency range	Measurement Point
Fully configured sample scanned over the following frequency range	30MHz – 1GHz	(10 meter measurement distance)
Fully configured sample scanned over the following frequency range	1GHz – 25GHz	(3 meter measurement distance)
<b>Limits - Class B</b>		
Frequency (MHz)	Limit (dBµV/m)	
	Quasi-Peak	Average
30-88	29.6	NA
88-216	33.1	NA
216-960	35.6	NA
960-1000	43.5	NA
960-25000 (3m)	74 (Peak)	54
Supplementary information: If Emissions detected were at least 6dB below the limit no additional measurements were taken after prescan.		
Peak Measurements RBW: 1MHz VBW: 1MHz		
Average Measurements RBW: 1MHz VBW: 10Hz		
Bandedge Measurements: No Emissions detected within restricted bands		

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**Table 4 Radiated Emissions EUT Configuration Settings**

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	1,2
Supplementary information: None		

**Table 5 Radiated Emissions Test Equipment**

Description	Manufacturer	Model	Identifier	Cal Date	Cal Due
EMI Test Receiver	Rohde & Schwarz	ESU	EMC4323	12-30-11	12-31-12
Bicon Antenna	Chase	VBA6106A	EMC4078	12-2-10	12-30-11
Log-P Antenna	Chase	UPA6109	EMC4258	8/20/10	8/31/11
Spectrum Analyzer	Rhode & Schwarz	FSEK	EMC4182	12-28-11	12-28-12
Antenna Array	UL	BOMS	EMC4276	10-20-10	10-20-11

**Figure 3 Test setup for Radiated Emissions**

See Photo Exhibit

Y-axis  
 See Photo Exhibit

30-1000MHz

Figure 4 Radiated Emissions Graph Hopping Channel DH5

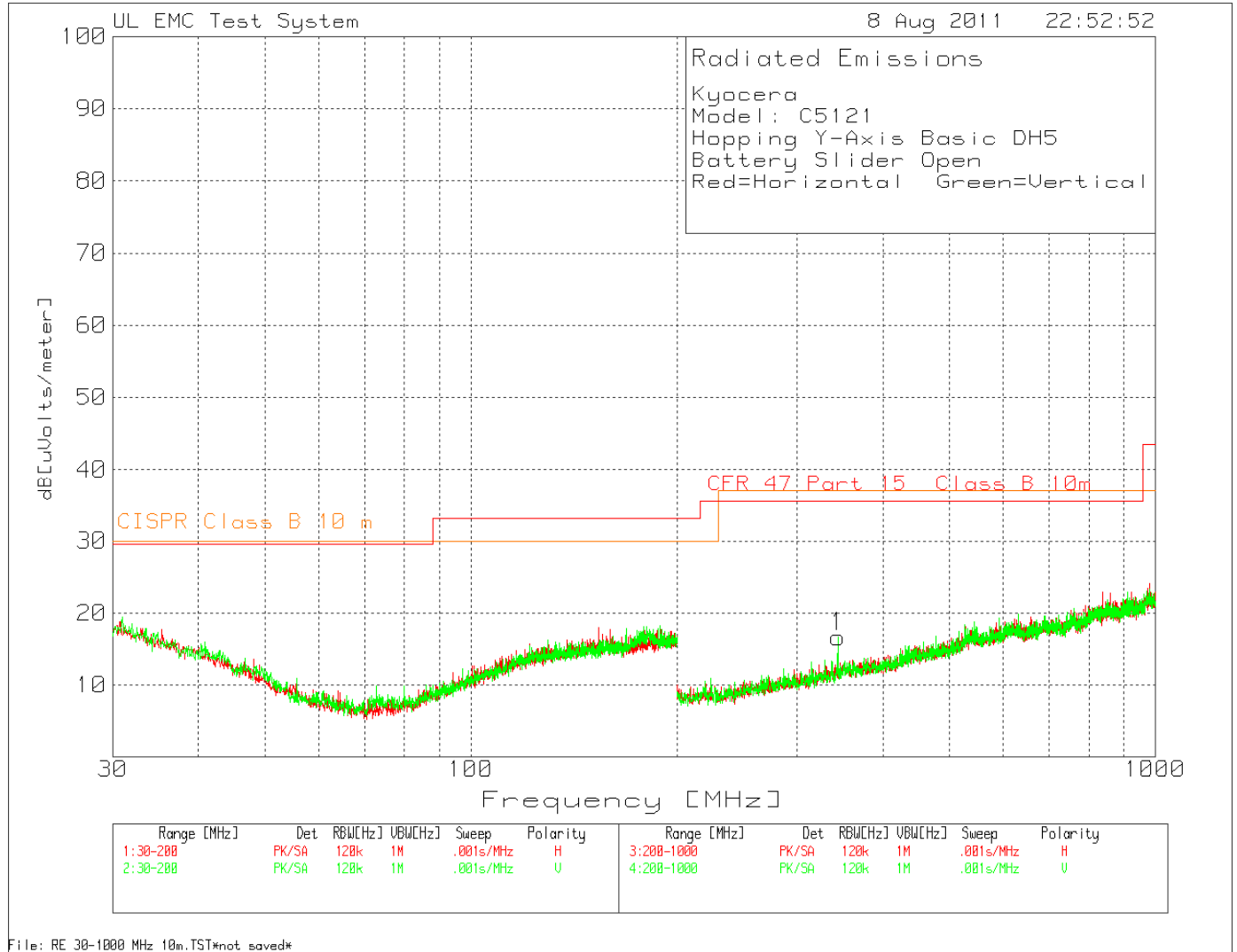


Figure 5 Radiated Emissions Graph Hopping Channel DH5 QPSK

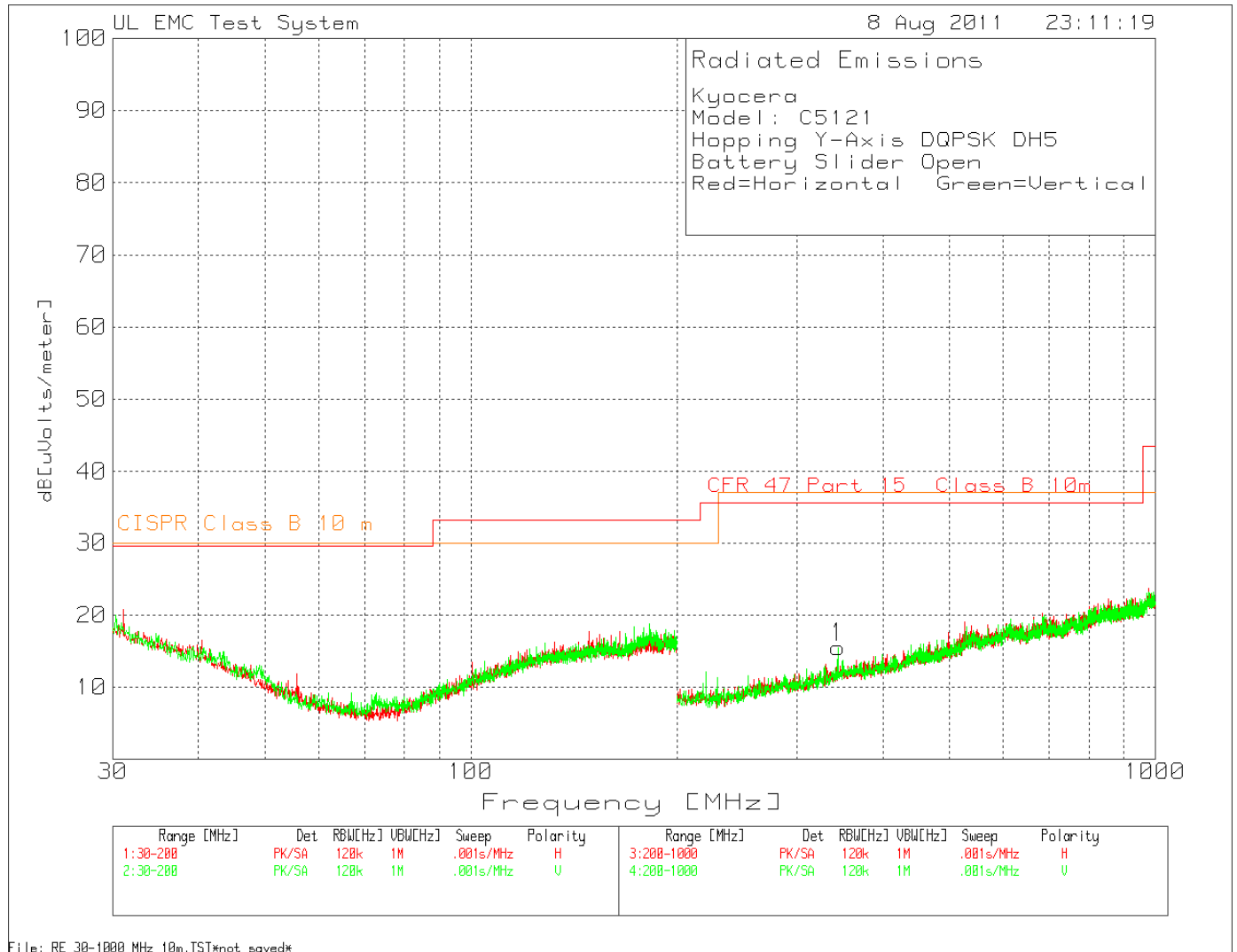
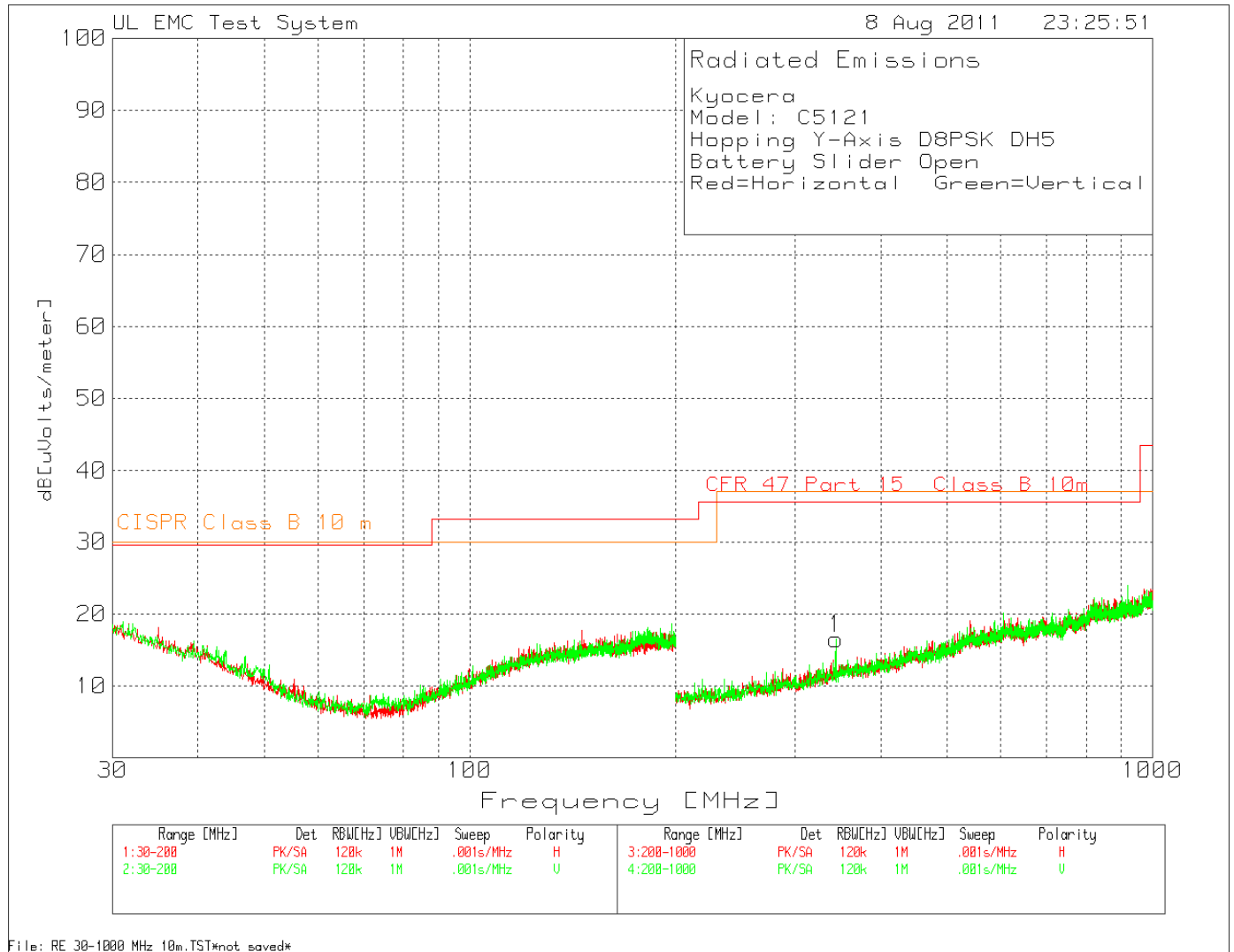


Figure 6 Radiated Emissions Graph Hopping Channel DH5 8PSK



1-25GHz

Figure 7 Radiated Emissions Graph – Hopping Basic DH5

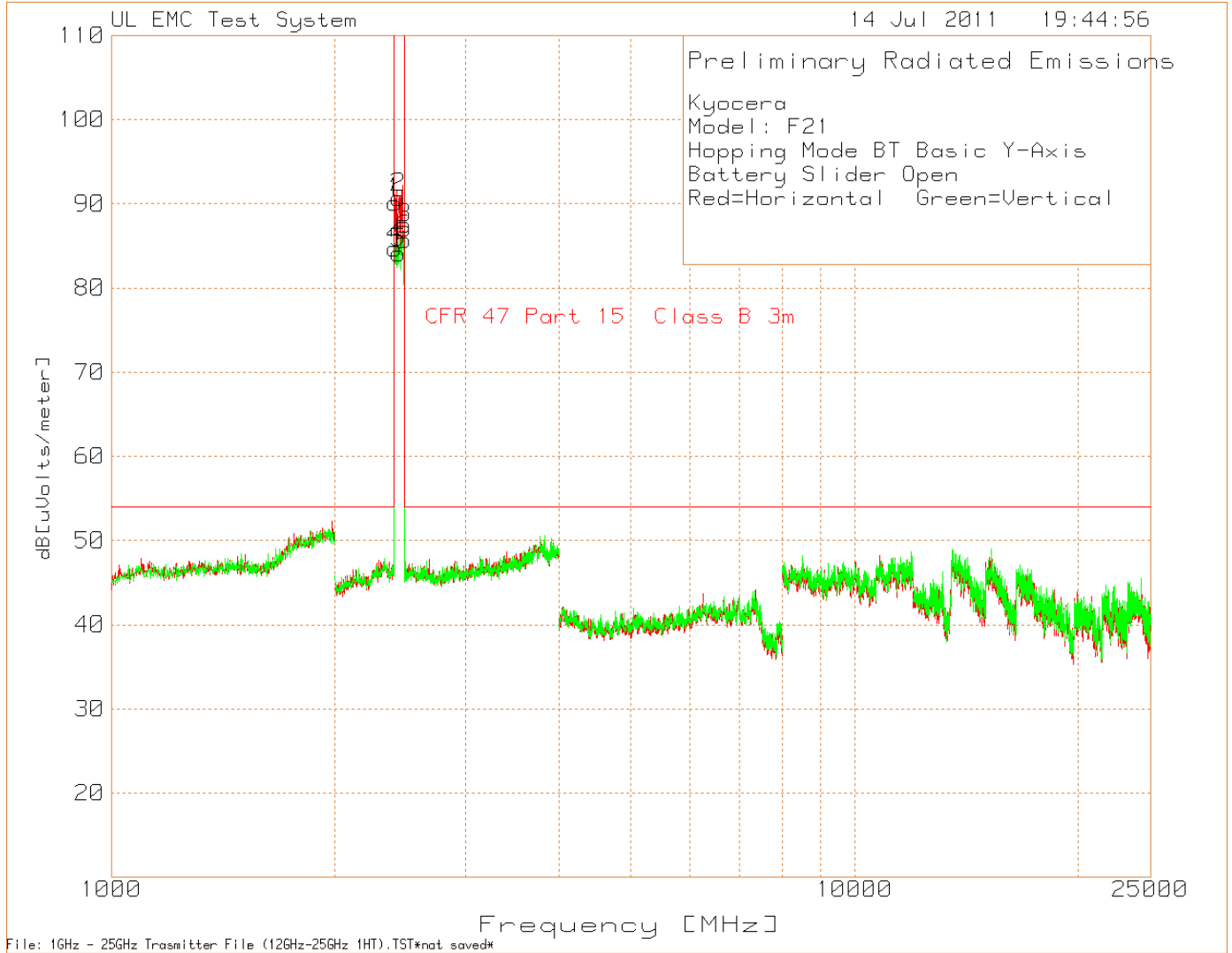


Figure 8 Radiated Emissions Graph Hopping QPSK DH5



Figure 9 Radiated Emissions Graph Hopping QPSK DH5 Average

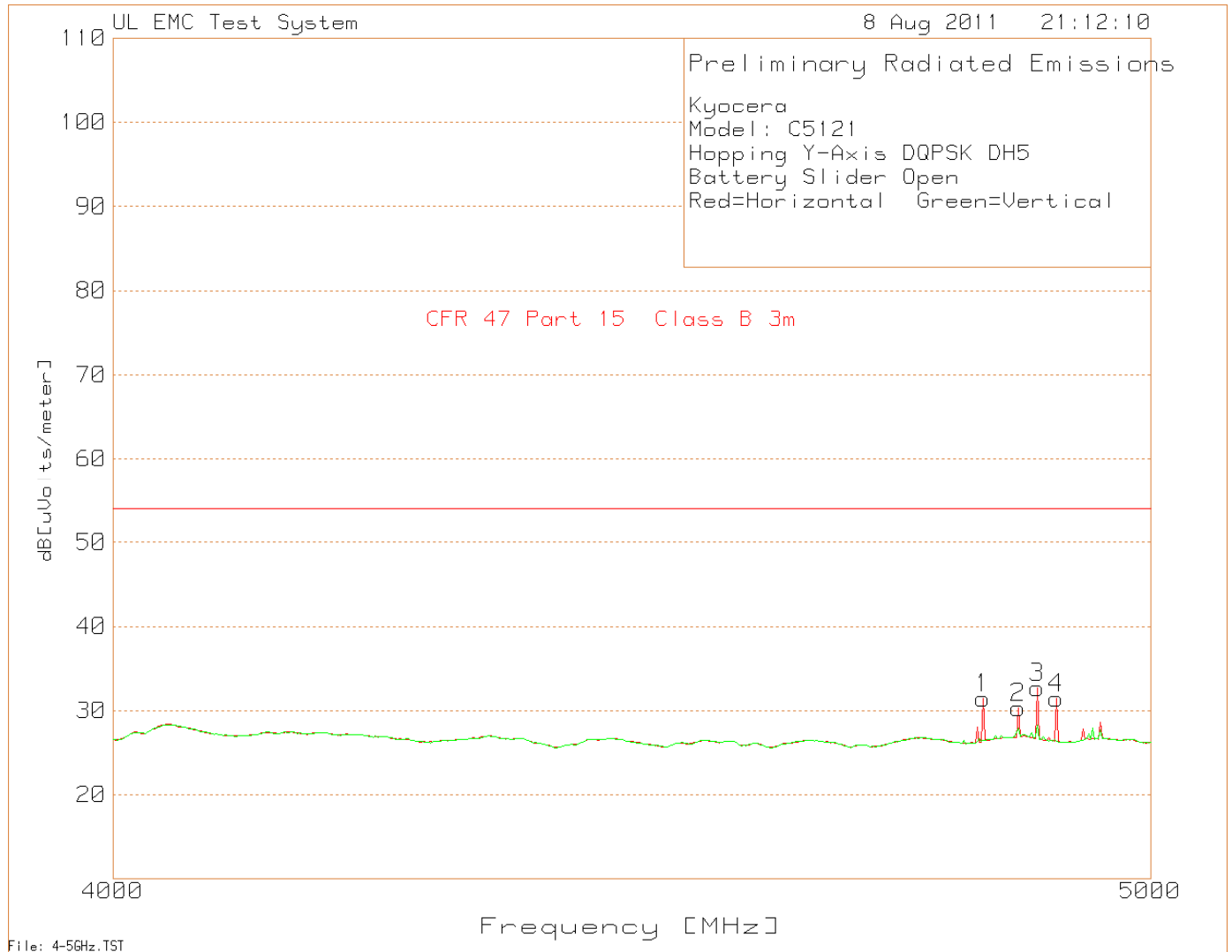




Figure 10 Radiated Emissions Graph Hopping 8PSK DH5

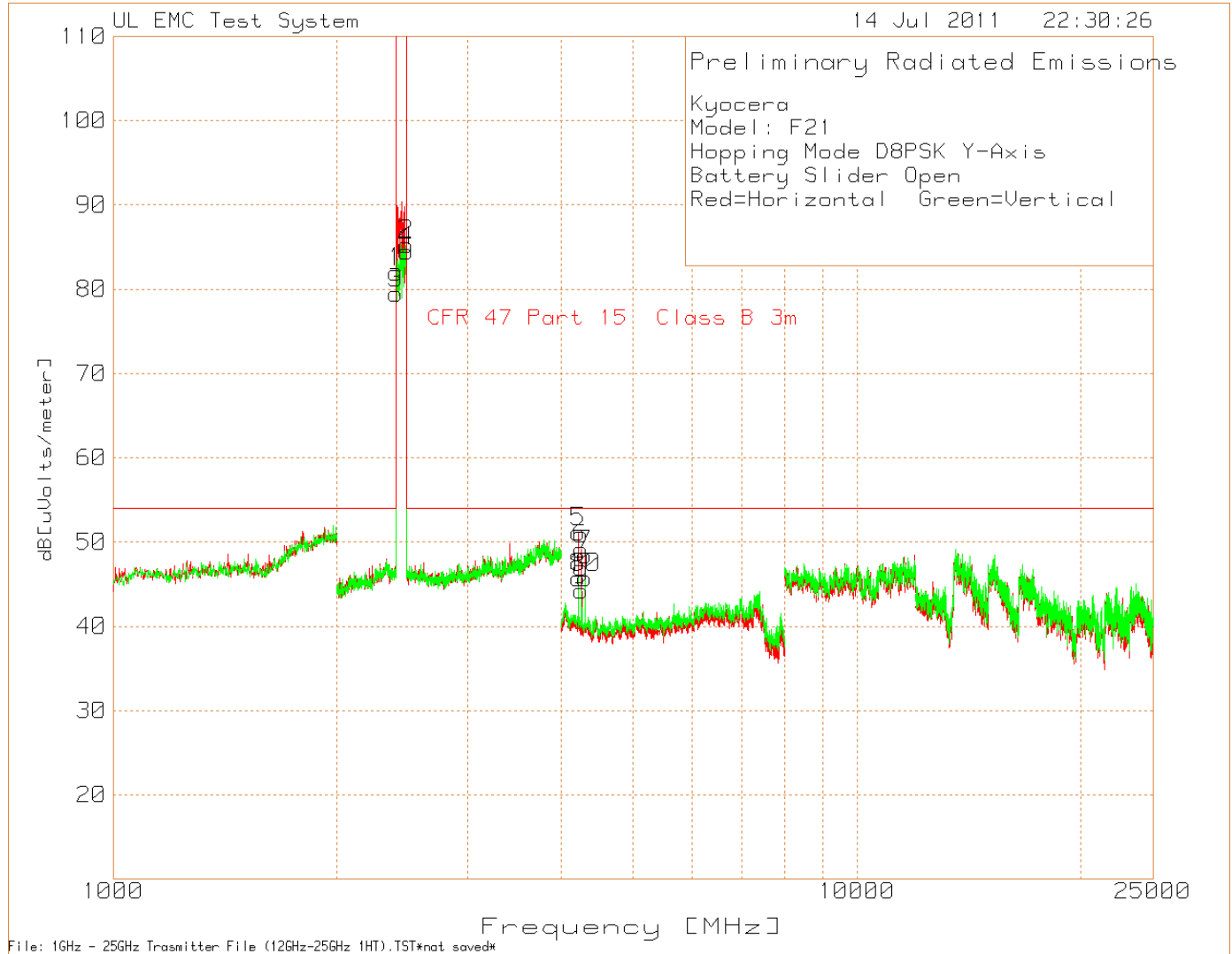


Figure 11 Radiated Emissions Graph Hopping 8PSK DH5 Average

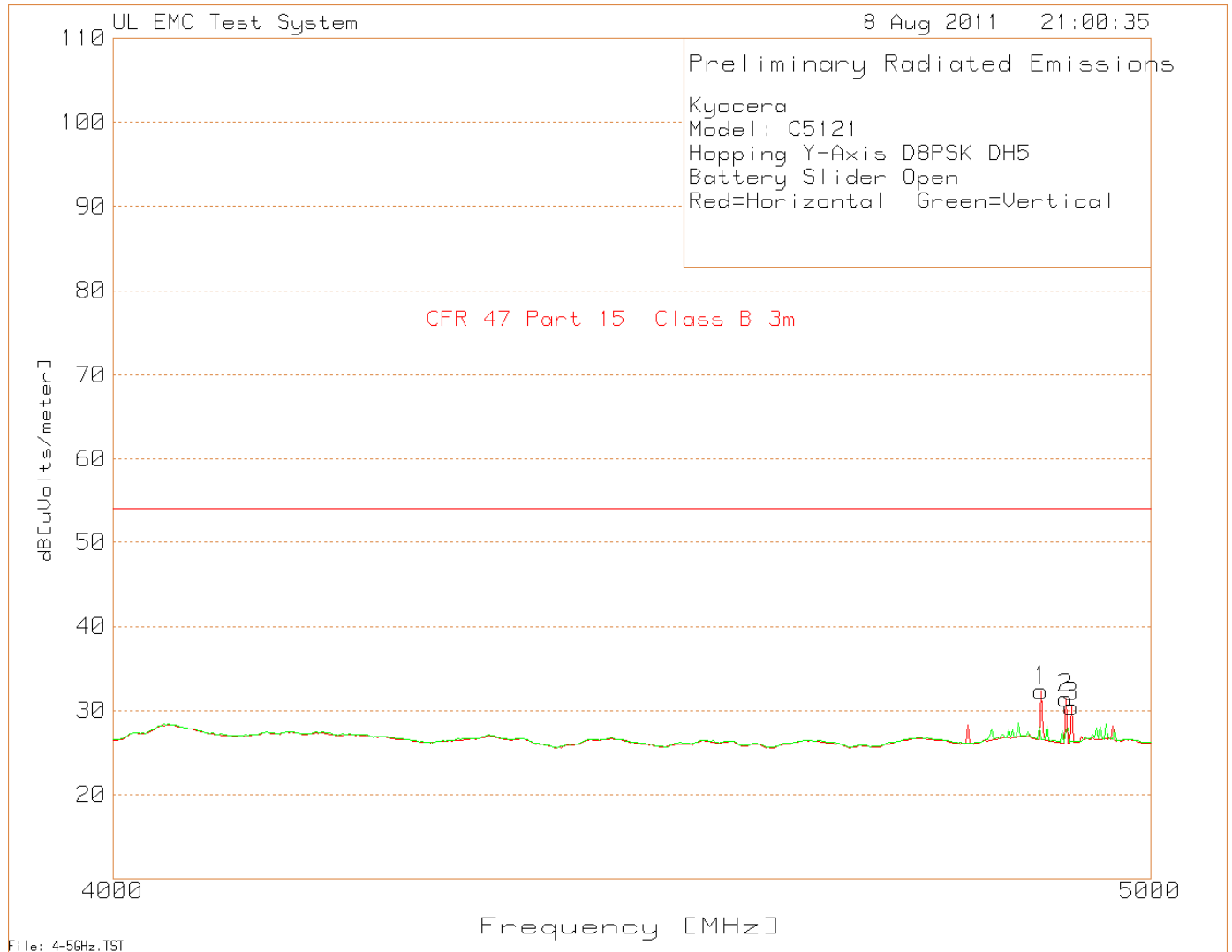


Figure 12 Radiated Emissions Graph Low Channel DH5 Bandedge

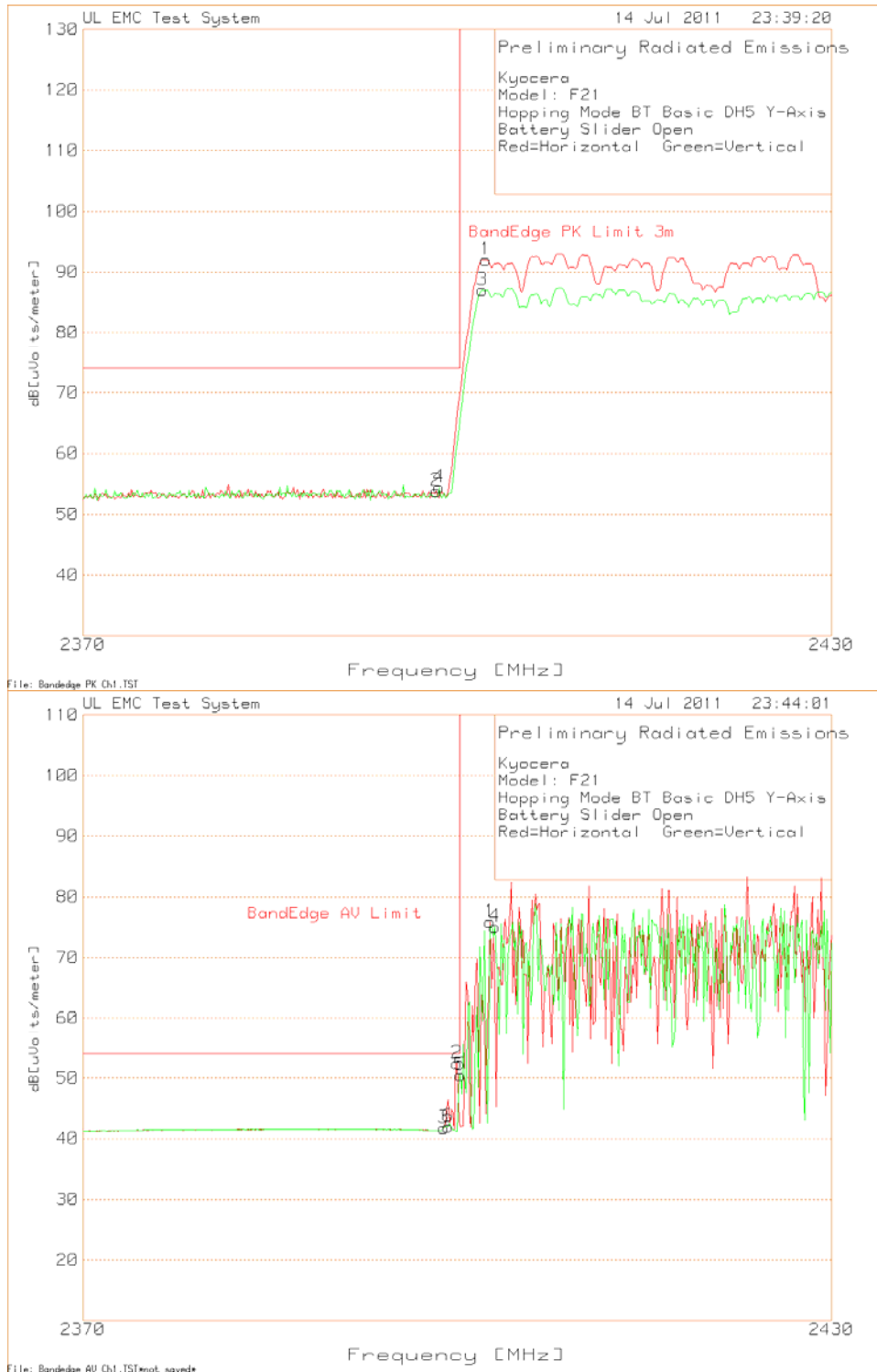


Figure 13 Radiated Emissions Graph Hi Channel DH5 Bandedge



Figure 14 Radiated Emissions Graph Low Channel DH5 QPSK Bandedge



Figure 15 Radiated Emissions Graph Hi Channel DH5 QPSK Bandedge



Figure 16 Radiated Emissions Graph Low Channel DH5 8PSK Bandedge

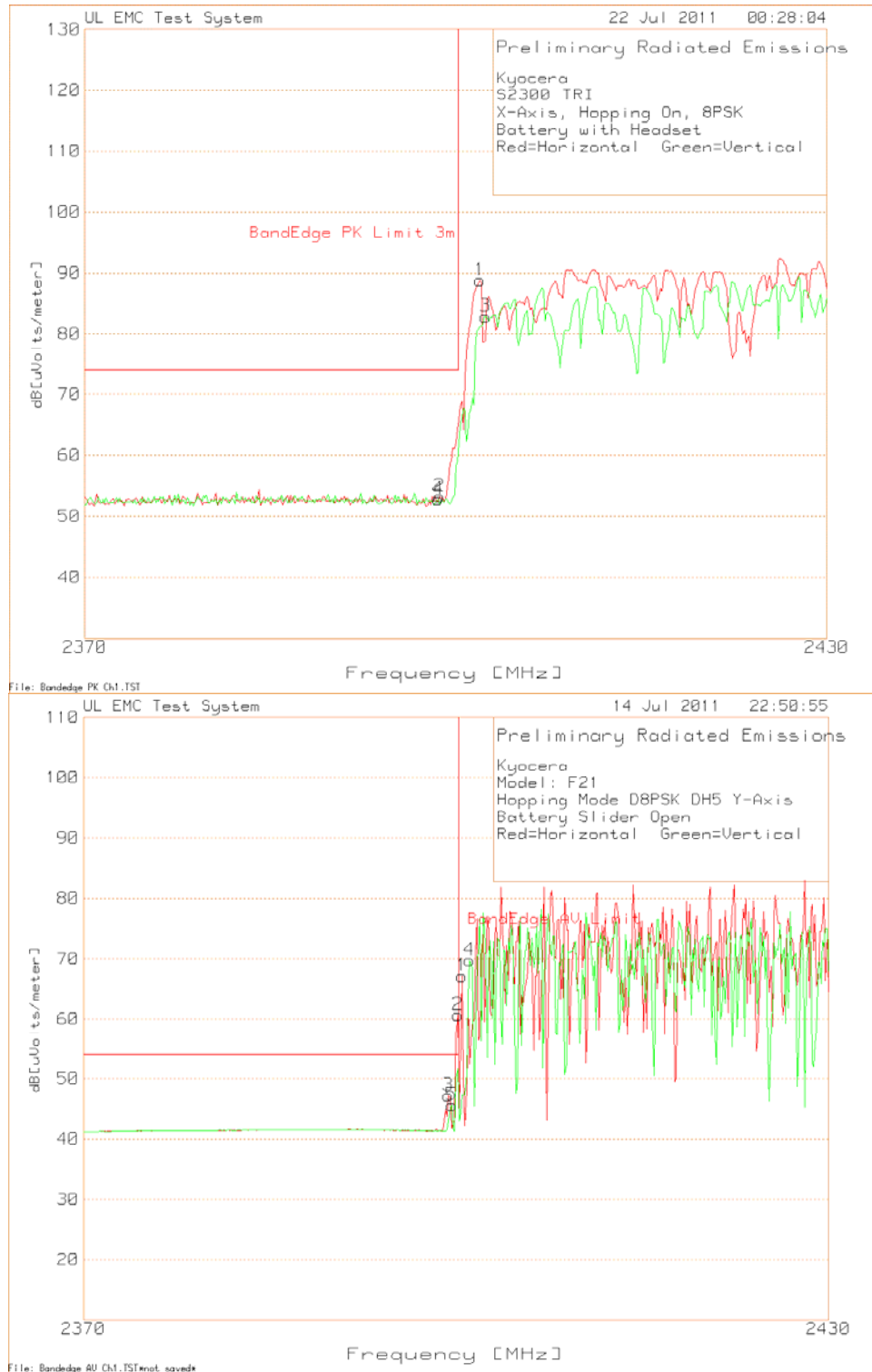


Figure 17 Radiated Emissions Graph Hi Channel DH5 8PSK Bandedge





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Model Number:   C5121  
Client Name:     Kyocera Communications

## 5.0    **IMMUNITY TEST RESULTS**

Immunity tests are not required per the standard

## Appendix A

### Accreditations and Authorizations



NVLAP Lab code: 100414-0

NVLAP: The National Institute of Standards and Technology (NIST) administers the National Voluntary Laboratory Accreditation Program (NVLAP). NVLAP is comprised of laboratory accreditation programs (LAPs) which are established on the basis of requests and demonstrated need. Each LAP includes specific calibration and/or test standards and related methods and protocols assembled to satisfy the unique needs for accreditation in a field of testing or calibration. NVLAP accredits public and private laboratories based on evaluation of their technical qualifications and competence to carry out specific calibrations or tests. Accreditation criteria are established in accordance with the U.S. Code of Federal Regulations (CFR, Title 15, Part 285), NVLAP Procedures and General Requirements, and encompass the requirements of ISO/IEC 17025. For a full scope listing see <http://ts.nist.gov/ts/htdocs/210/214/scopes/1004140.htm>



FCC: Details of the measurement facilities used for these tests have been filed with the Federal Communications Commission's Laboratory in Columbia, Maryland (Ref. No. 91044).



Industry Canada    Industrie Canada

Industry of Canada: Accredited by Industry Canada for performance of radiated measurements. Our test site complies with RSP 100, Issue 7, Section 3.3. File #: IC 2180



VCCI: Accepted as an Associate Member to the VCCI. The measurement facilities detailed in this test report have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. Registration Nos.: Radiated Emissions R-621, Conducted Emissions C-642.

FCC ID            OVFC51213CD  
IC                3572A-C5121  
Model Number:    C5121  
Client Name:     Kyocera Communications

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ICASA: ICASA (Independent Communications Authority of South Africa) has appointed UL as a Designated Test Laboratory to test Telecommunications equipment for type approval in compliance with CISPR 22 to assist in fulfilling its mandate under section 54(1) of the Telecommunications Act, 1996 (Act 103 of 1996).



NIST/CAB: Validated by the European Commission as a U.S. Conformity Assessment Body (CAB) of the U.S.-EU Mutual Recognition Agreement (MRA) for the Electromagnetic Compatibility - Council Directive 2004/108/EC, Annex III (2-3). Also validated for the Telecommunication Equipment-Council Directive 99/5/EC, Annex III and IV, Identification Number: 0983.

NIST/CAB: Provisioned to act as a U.S. Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the Asia Pacific Economic Cooperation (APEC) MRA between the American Institute in Taiwan (AIT) and the United States. Our laboratory is considered qualified to test equipment subject to the applicable EMC regulations of the Chinese Taipei Bureau of Standards, Metrology and Inspection (BSMI) which require testing to CNS 13438 (CISPR 22).

NIST/CAB: Recognized by the Infocomm Development Authority of Singapore (IDA) under the Asia Pacific Economic Cooperation Mutual Recognition Agreement (APEC MRA). Our laboratory is provisionally designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC MRA. Our scope of designation includes IDA TS EMC (CISPR 22), IEC 61000-4-2, -4-3, -4-4, -4-5, and -4-6

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