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Job Number:	SR7577616-T001
Project Number:	11U13764
Date:	2011-04-27
Model:	S1350
FCC ID:	OVFS13503CB

Electromagnetic Compatibility Test Report

For

KYOCERA Communications, Inc.

Test Report Details

Tests Performed By:	**Underwriters Laboratories Inc. 1285 Walt Whitman Rd. Melville, NY 11747**
Tests Performed For:	**KYOCERA Communications, Inc. 9520 Towne Centre Drive San Diego, CA 92121**
Applicant Contact: Phone: E-mail:	**C.K. Li (858) 882-3945 ck.li@kyocera.com**
Test Report Date:	**2011-04-27**
Product Type:	**CDMA Mobile Phone**
Product standards	**FCC Part 15, Subpart C 15.247**
Model Number:	**S1350**
Sample Serial Number:	**IVV31121M00146**
EUT Category:	**Information Technology Equipment**
Testing Start Date:	**2011-04-20**
Date Testing Complete:	**2011-04-26**
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.

Report Directory

Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None	Original	-	-

1.0 G E N E R A L - Product Description

1.1 Equipment Description

The S1350 is a CDMA Mobile Phone with BlueTooth 2.1+EDR. The antenna gain is 2.0dBi.

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.**	**S1350**	**None**
EUT	**Power Supply**	**KYOCERA Communications, Inc.**	**TXTVL10148**	**Input:100-240Vac 50/60Hz 0.1A Output: 5Vdc 350mA**
AE	**Ear Phones**	**-**	**-**	**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

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

1.3.3 EUT Internal Operating Frequencies:

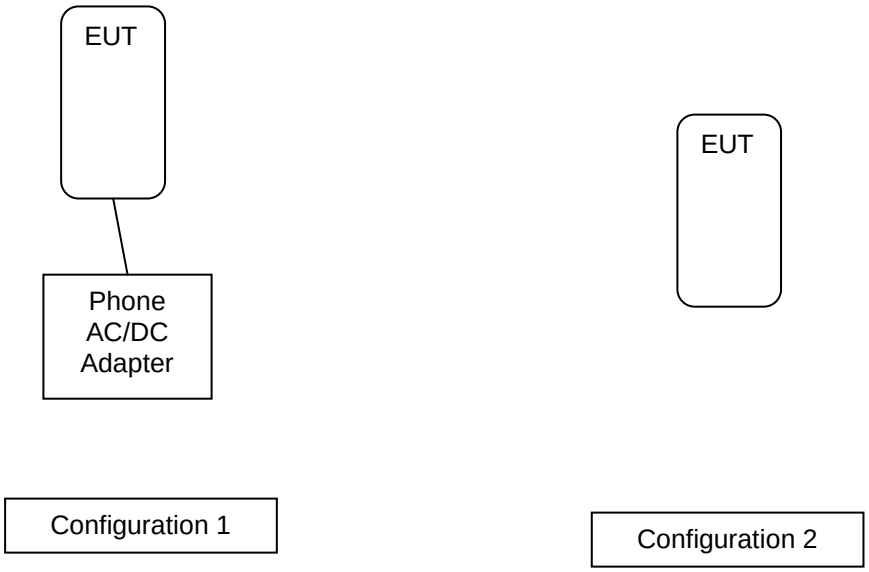
Frequency (MHz)	Description
19.2	TCXO
26	Bluetooth
200	BB

1.3.4 Power Interface:

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
1	120	-	-	AC – 60Hz	1	Phone powered by AC/DC power adapter
2	3.7	-	-	DC	-	Phone powered by internal battery.

1.4 Block Diagram:

The diagram below illustrates the configuration of the equipment above.



1.5 EUT Configurations

Mode #	Description
1	Connected to AC Charger
2	Battery Powered

For radiated emissions testing below 1GHz the worst case configuration above 1GHz was used for each data rate. For conducted emissions, mid channel for each data rate was tested.

1.6 EUT Operation Modes

Mode #	Description
1	**Low Channel Basic Rate**
2	**Mid Channel Basic Rate**
3	**High Channel Basic Rate**
4	**Low Channel 2MB EDR**
5	**Mid Channel 2MB EDR**
6	**High Channel 2MB EDR**
7	**Low Channel 3MB EDR**
8	**Mid Channel 3MB EDR**
9	**High Channel 3MB EDR**

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

2.4 Results Summary

This product is considered FHSS

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

Only the transmit mode was requested to be tested.

Test Engineer:

Bob DeLisi (Ext.22452)
Senior Staff Engineer
International EMC Services
Conformity Assessment Services-

Reviewer:

Mike Antola(Ext.23053)
Senior Project 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

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

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, Subpart C, ANSI C63.10:2009	
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
Limits - Class 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 #
1	1	2
1	1	5
1	1	8
Supplementary information: None		

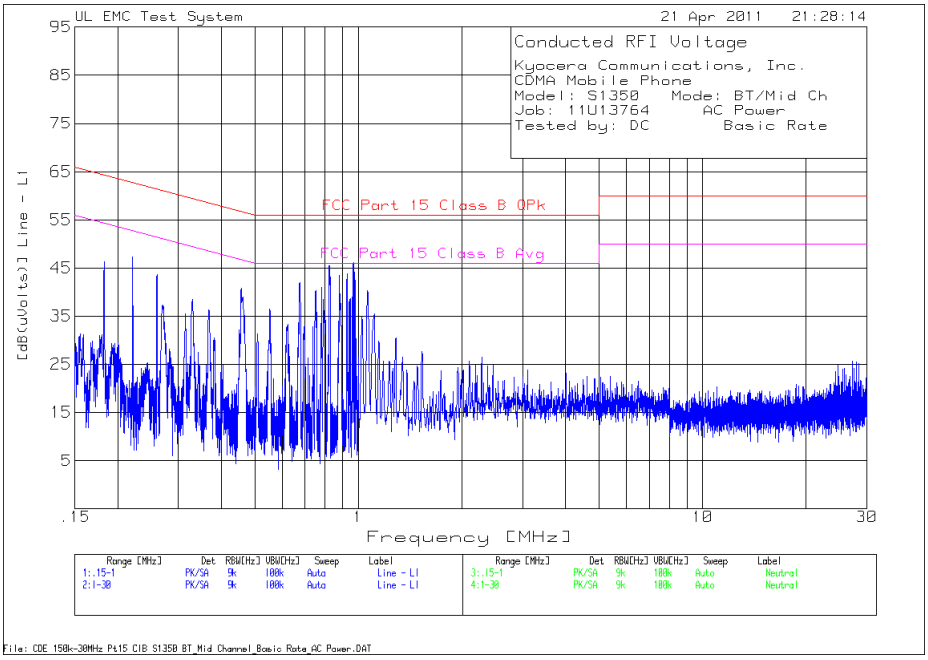
Table 2 Conducted Emissions Test Equipment

Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal Date	Cal Due Date
Conducted Emissions – GP 1					
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081	2011-01-27	2012-01-31
LISN	Solar	9252-50-R-24-BNC	ME5A-636	2011-02-04	2012-02-28
Switch Driver	HP	11713A	44397	N/A	N/A
RF Switch Box	UL	4	44404	N/A	N/A
Measurement Software	UL	Version 9.3	44736	N/A	N/A
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	43734	2010-03-08	2012-03-08
Multimeter	Fluke	83V	43443	2011-02-01	2012-02-29

Figure 1 Test Setup for Conducted Emissions

Photos in separate exhibit.

Figure 2 Conducted Emissions Graph



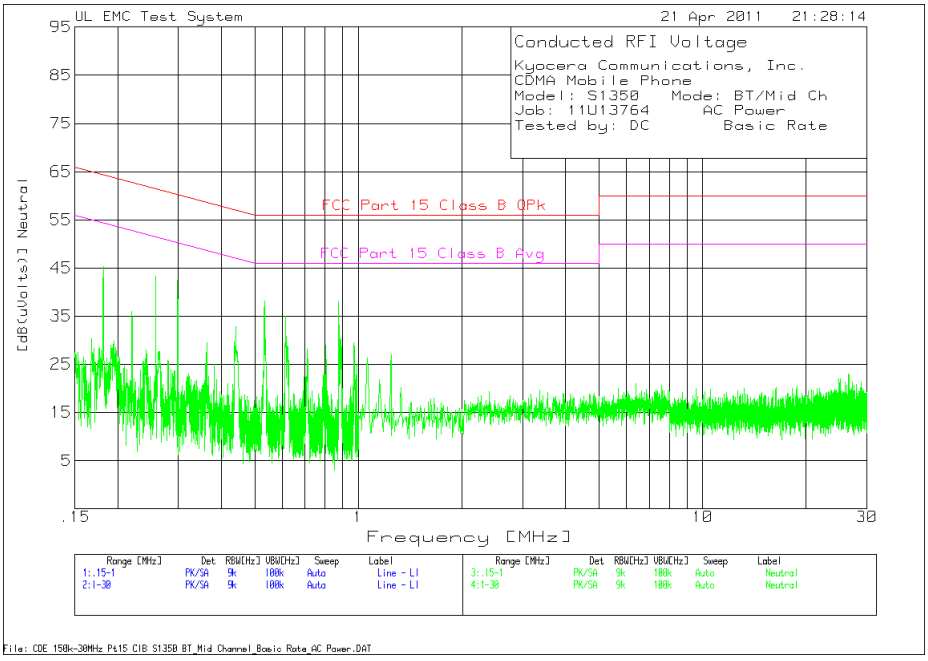


Table 3 Conducted Emissions Data Points

Kyocera Communications, Inc.
CDMA Mobile Phone
Model: S1350 Mode: BT/Mid Ch
Job: 11U13764 AC Power
Tested by: DC Basic Rate

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]
Line - L1 .15 - 1MHz										
1	0.22048	36.32	PK	11	0	47.32	62.8	-15.48	52.8	-5.48
2	0.25967	32.83	PK	10.8	0	43.63	61.4	-17.77	51.4	-7.77
3	0.45657	30.34	PK	10.5	0	40.84	56.8	-15.96	46.8	-5.96
4	0.67388	30.78	PK	10.4	0	41.18	56	-14.82	46	-4.82
5	0.75107	29.84	PK	10.4	0	40.24	56	-15.76	46	-5.76
6	0.781	30.57	PK	10.4	0	40.97	56	-15.03	46	-5.03
7	0.82283	35.13	PK	10.4	0	45.53	56	-10.47	46	-0.47
8	0.87945	33.12	PK	10.4	0	43.52	56	-12.48	46	-2.48
9	0.92689	33.32	PK	10.4	0	43.72	56	-12.28	46	-2.28
10	0.97092	35.68	PK	10.4	0	46.08	56	-9.92	46	0.08
Line - L1 1 - 30MHz										
11	1.06381	29.91	PK	10.4	0	40.31	56	-15.69	46	-5.69
Neutral .15 - 1MHz										
12	0.25746	32.34	PK	10.9	0	43.24	61.5	-18.26	51.5	-8.26
13	0.2981	31.69	PK	10.7	0	42.39	60.3	-17.91	50.3	-7.91
14	0.53343	27.63	PK	10.5	0	38.13	56	-17.87	46	-7.87
15	0.87537	27.53	PK	10.4	0	37.93	56	-18.07	46	-8.07

LIMIT 1: FCC Part 15 Class B QPk
LIMIT 2: FCC Part 15 Class B Avg

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Kyocera Communications, Inc.
CDMA Mobile Phone
Model: S1350 Mode: BT/Mid Ch
Job: 11U13764 AC Power
Tested by: DC Basic Rate

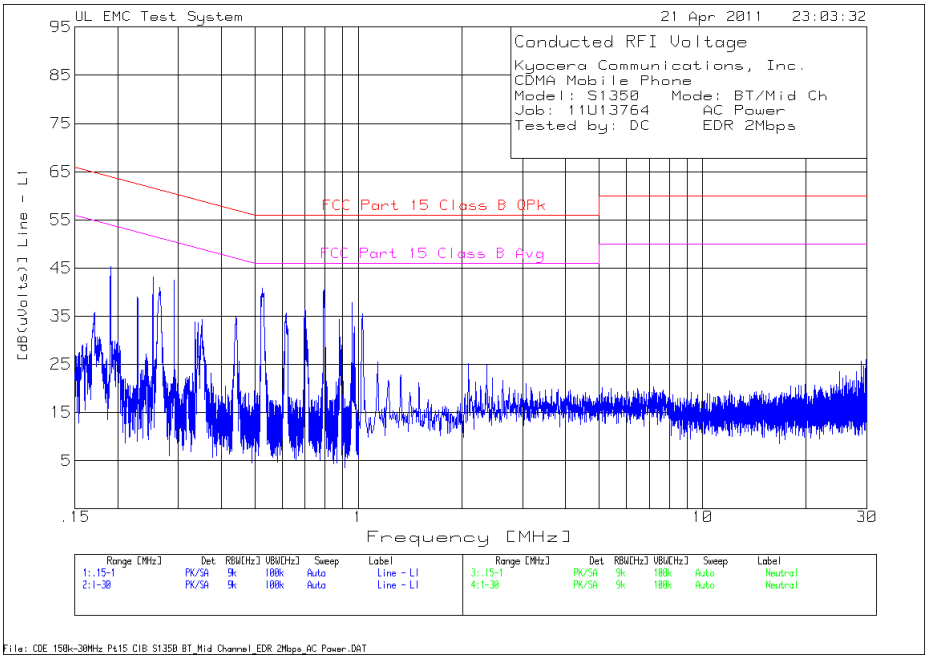
Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]
Line - L1 .15 - 1MHz									
0.22031	13.82	Av	11	0	24.82	62.8	-37.98	52.8	-27.98
0.26027	20.44	Av	10.8	0	31.24	61.4	-30.16	51.4	-20.16
0.4565	-1.26	Av	10.5	0	9.24	56.8	-47.56	46.8	-37.56
0.6738	-2.34	Av	10.4	0	8.06	56	-47.94	46	-37.94
0.75111	-5.31	Av	10.4	0	5.09	56	-50.91	46	-40.91
0.78085	3.76	Av	10.4	0	14.16	56	-41.84	46	-31.84
0.82271	-3.61	Av	10.4	0	6.79	56	-49.21	46	-39.21
0.87951	18.2	Av	10.4	0	28.6	56	-27.4	46	-17.4
0.92707	-3.23	Av	10.4	0	7.17	56	-48.83	46	-38.83
0.97152	22.23	Av	10.4	0	32.63	56	-23.37	46	-13.37
Line - L1 1 - 30MHz									
1.06315	16.16	Av	10.4	0	26.56	56	-29.44	46	-19.44
Neutral .15 - 1MHz									
0.25763	7.49	Av	10.9	0	18.39	61.5	-43.11	51.5	-33.11
0.29826	3.74	Av	10.7	0	14.44	60.3	-45.86	50.3	-35.86
0.53271	16.73	Av	10.5	0	27.23	56	-28.77	46	-18.77
0.87564	9.13	Av	10.4	0	19.53	56	-36.47	46	-26.47

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detection
Av - average detection
CAV - CISPR average detection
RMS - RMS detection
CRMS - CISPR RMS detection

LIMIT 1: FCC Part 15 Class B QPk
LIMIT 2: FCC Part 15 Class B Avg

Figure 3 Conducted Emissions Graph



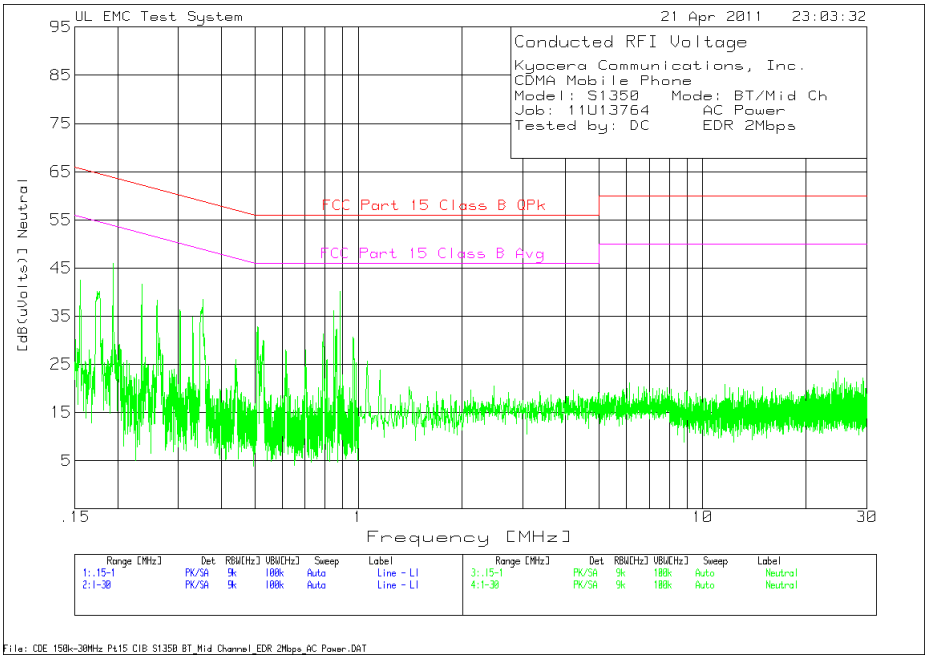


Table 4 Conducted Emissions Data Points

Kyocera Communications, Inc.
CDMA Mobile Phone
Model: S1350 Mode: BT/Mid Ch
Job: 11U13764 AC Power
Tested by: DC EDR 2Mbps

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]
Line - L1 .15 - 1MHz										
1	0.19047	34.04	PK	11.2	0	45.24	64	-18.76	54	-8.76
2	0.25304	32.2	PK	10.9	0	43.1	61.7	-18.6	51.7	-8.6
3	0.2913	31.77	PK	10.7	0	42.47	60.5	-18.03	50.5	-8.03
4	0.52578	30.31	PK	10.5	0	40.81	56	-15.19	46	-5.19
5	0.69904	26.02	PK	10.4	0	36.42	56	-19.58	46	-9.58
6	0.79256	29.98	PK	10.4	0	40.38	56	-15.62	46	-5.62
7	0.95868	27.45	PK	10.4	0	37.85	56	-18.15	46	-8.15
Line - L1 1 - 30MHz										
8	1.02901	25.07	PK	10.4	0	35.47	56	-20.53	46	-10.53
Neutral .15 - 1MHz										
9	0.19353	34.67	PK	11.2	0	45.87	63.9	-18.03	53.9	-8.03
10	0.23468	30.77	PK	10.9	0	41.67	62.3	-20.63	52.3	-10.63
11	0.35302	27.79	PK	10.6	0	38.39	58.9	-20.51	48.9	-10.51
12	0.88523	29.79	PK	10.4	0	40.19	56	-15.81	46	-5.81

LIMIT 1: FCC Part 15 Class B QPk
LIMIT 2: FCC Part 15 Class B Avg

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Kyocera Communications, Inc.
CDMA Mobile Phone
Model: S1350 Mode: BT/Mid Ch
Job: 11U13764 AC Power
Tested by: DC EDR 2Mbps

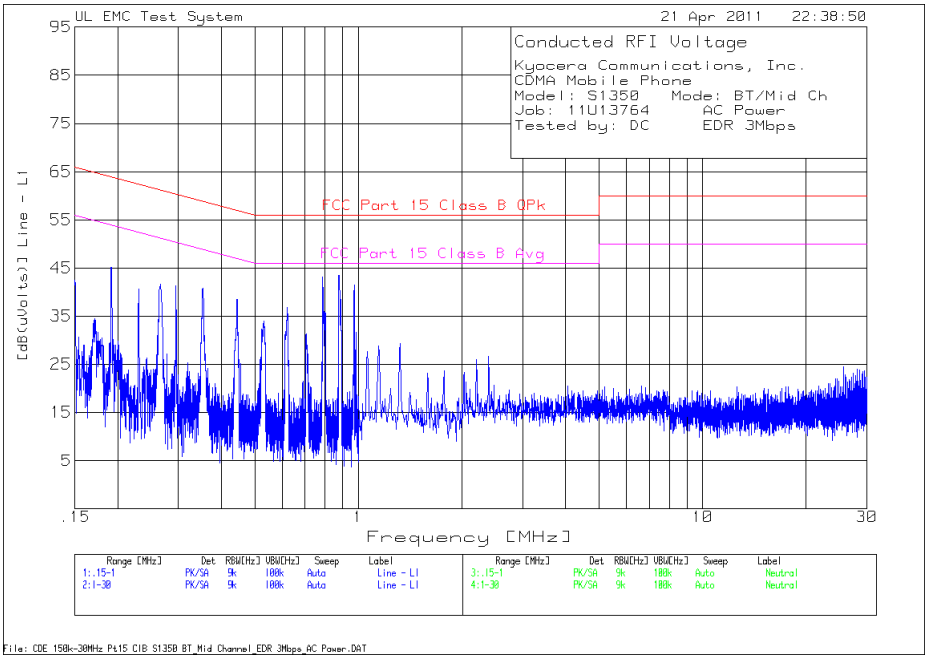
Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]
Line - L1 .15 - 1MHz									
0.52625	21.47	Av	10.5	0	31.97	56	-24.03	46	-14.03
0.79321	24.02	Av	10.4	0	34.42	56	-21.58	46	-11.58
Neutral .15 - 1MHz									
0.88464	17.63	Av	10.4	0	28.03	56	-27.97	46	-17.97

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detection
Av - average detection
CAV - CISPR average detection
RMS - RMS detection
CRMS - CISPR RMS detection

LIMIT 1: FCC Part 15 Class B QPk
LIMIT 2: FCC Part 15 Class B Avg

Figure 4 Conducted Emissions Graph



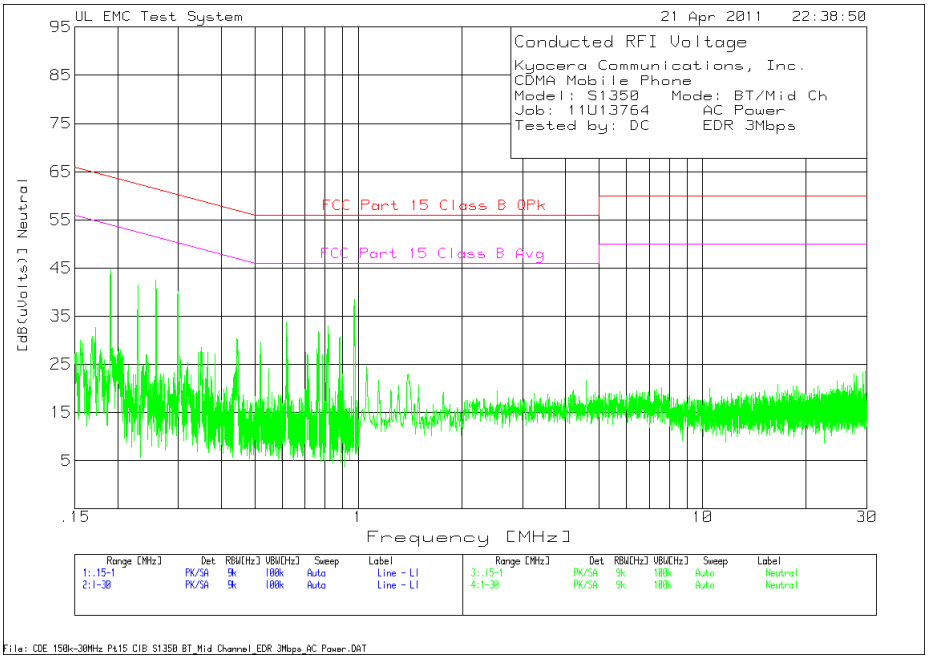


Table 5 Conducted Emissions Data Points

Kyocera Communications, Inc.
CDMA Mobile Phone
Model: S1350 Mode: BT/Mid Ch
Job: 11U13764 AC Power
Tested by: DC EDR 3Mbps

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]
Line - L1 .15 - 1MHz										
1	0.19132	33.92	PK	11.2	0	45.12	64	-18.88	54	-8.88
2	0.26579	30.81	PK	10.8	0	41.61	61.2	-19.59	51.2	-9.59
3	0.35336	30.12	PK	10.6	0	40.72	58.9	-18.18	48.9	-8.18
4	0.44399	27.99	PK	10.5	0	38.49	57	-18.51	47	-8.51
5	0.62167	26.23	PK	10.5	0	36.73	56	-19.27	46	-9.27
6	0.78763	32.72	PK	10.4	0	43.12	56	-12.88	46	-2.88
7	0.8769	33.1	PK	10.4	0	43.5	56	-12.5	46	-2.5
8	0.97211	31.13	PK	10.4	0	41.53	56	-14.47	46	-4.47
Line - L1 1 - 30MHz										
9	1.31906	18.95	PK	10.4	0	29.35	56	-26.65	46	-16.65
Neutral .15 - 1MHz										
10	0.25797	31.56	PK	10.9	0	42.46	61.5	-19.04	51.5	-9.04
11	0.81636	22.62	PK	10.4	0	33.02	56	-22.98	46	-12.98
12	0.97228	28.07	PK	10.4	0	38.47	56	-17.53	46	-7.53

LIMIT 1: FCC Part 15 Class B QPk
LIMIT 2: FCC Part 15 Class B Avg

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Kyocera Communications, Inc.
CDMA Mobile Phone
Model: S1350 Mode: BT/Mid Ch
Job: 11U13764 AC Power
Tested by: DC EDR 3Mbps

Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]
Line - L1 .15 - 1MHz									
0.78803	20.11	Av	10.4	0	30.51	56	-25.49	46	-15.49
0.87725	20.6	Av	10.4	0	31	56	-25	46	-15
0.97138	21.43	Av	10.4	0	31.83	56	-24.17	46	-14.17
Neutral .15 - 1MHz									
0.97168	15.8	Av	10.4	0	26.2	56	-29.8	46	-19.8

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detection
Av - average detection
CAV - CISPR average detection
RMS - RMS detection
CRMS - CISPR RMS detection

LIMIT 1: FCC Part 15 Class B QPk
LIMIT 2: FCC Part 15 Class B Avg

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 C63.4:2003. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. 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.		
Basic Standard	FCC Part 15, Subpart C, ANSI C63.10:2009		
UL LPG	80-EM-S0029		
	Frequency range	Measurement Point	
Fully configured sample scanned over the following frequency range	30MHz – 1GHz	(3 meter measurement distance)	
Fully configured sample scanned over the following frequency range	1GHz – 26.5GHz	(3 meter measurement distance)	

Limits

Frequency (MHz)	Limit (dBµV/m)		
	Quasi-Peak	Peak	Average
30-88	30	NA	NA
88-210	37	NA	NA
210-230	30	NA	NA
230-1000	37	NA	NA
1000-26500	NA	74	54

Supplementary information: None

Table 6 Radiated Emissions EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	1
1	1	2
1	1	3
1	1	4
1	1	5
1	1	6
1	1	7
1	1	8
1	1	9
2	2	1
2	2	2
2	2	3
2	2	4
2	2	5
2	2	6
2	2	7
2	2	8
2	2	9
Supplementary information: Preliminary tests were conducted to determine the worst case orientation of the device. After preliminary tests the X-axis was determined to be the orientation with the maximum emissions. Worst case data is presented in this report.		

Table 7 Radiated Emissions Test Equipment

Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal Date	Cal Due Date
30-1000MHz					
EMI Receiver	Rohde & Schwarz	ESIB40	34968	2011-03-11	2012-03-12
Log-P Antenna	Schaffner	UPA6109	44068	2011-04-05	2012-04-05
Bicon Antenna	Schaffner	VBA6106A	43441	2010-09-09	2011-09-09
Switch Driver	HP	11713A	ME7A-627	N/A	N/A
System Controller	Sunol Sciences	SC99V	44396	N/A	N/A
Camera Controller	Panasonic	WV-CU254	44395	N/A	N/A
RF Switch Box	UL	1	44398	N/A	N/A
Measurement Software	UL	Version 9.3	44740	N/A	N/A
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268	2010-12-07	2012-12-07
Multimeter	Fluke	83V	43443	2011-02-01	2012-02-29
Above 1GHz (Band Optimized System)					
EMI Receiver	Rohde & Schwarz	ESIB40	34968	2011-03-11	2012-03-12
Horn Antenna (1-2 GHz)	ETS	3161-01	51442	2008-03-28	See * below
Horn Antenna (2-4 GHz)	ETS	3161-02	48107	2007-09-27	See * below
Horn Antenna (4-8 GHz)	ETS	3161-03	48106	2007-09-27	See * below
Horn Antenna (8-12 GHz)	ETS	3160-07	8933	2008-11-24	See * below
Horn Antenna (12-18 GHz)	ETS	3160-08	8932	2007-09-27	See * below
Horn Antenna (18-26 GHz)	ETS	3160-10	8947	2007-09-26	See * below
Signal Path Controller	HP	11713A	50250	N/A	N/A
Gain Controller	HP	11713A	50251	N/A	N/A
RF Switch / Preamp Fixture	UL	BOMS1	50249	N/A	N/A
System Controller	UL	BOMS2	50252	N/A	N/A
Measurement Software	UL	Version 9.3	44740	N/A	N/A
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268	2010-12-07	2012-12-07
Multimeter	Fluke	83V	43443	2011-02-01	2012-02-29

* - Note: As allowed by the calibration standard ANSI C63.4 Section 4.4.2, standard gain horns need only a one-time calibration. Only if physical damage occurs will the horn antenna require re-calibration.
* Gain standard horn antennas (sometimes called standard gain horn antennas) need not be calibrated beyond that which is provided by the manufacturer unless they are damaged or deterioration is suspected, or they are used at a distance closer than $2D^2/\lambda$. Gain standard horn antennas have gains that are fixed by their dimensions and dimensional tolerances.

Figure 5 Test setup for Radiated Emissions – AC Powered

Photo in separate exhibit

Figure 6 Test setup for Radiated Emissions – Battery Powered

Photo in separate exhibit

EMISSIONS DATA BELOW 1GHz

Figure 7 Radiated Emissions Graph BASIC RATE

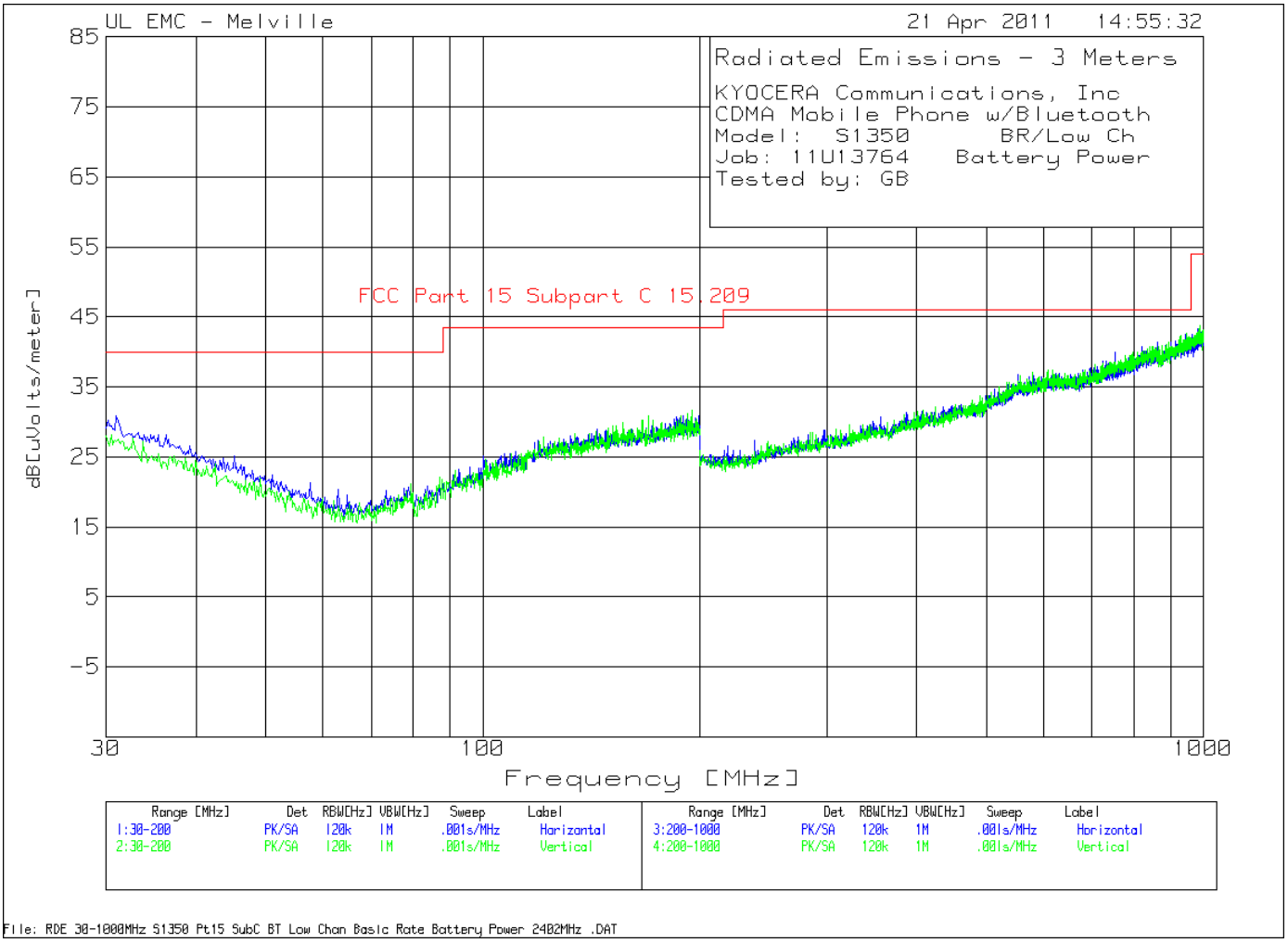


Table 8 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 BR/Low Ch
Job: 11U13764 Battery Power
Tested by: GB

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[dB]	Azimuth [degs]	Height [cm]	Polarity
Horizontal 30 - 200MHz											
1	31.021	12.05	PK	0.5	18.3	30.85	40	-9.15	208	102	Horz
2	143.8438	13.53	PK	1.2	14.3	29.03	43.5	-14.47	208	102	Horz
Vertical 30 - 200MHz											
3	169.8799	14	PK	1.4	15.5	30.9	43.5	-12.6	4	100	Vert
Horizontal 200 - 1000MHz											
4	238.4192	13.73	PK	1.6	12.1	27.43	46	-18.57	296	200	Horz
5	386.8934	13.14	PK	2.1	16.1	31.34	46	-14.66	358	400	Horz
6	755.0775	15.38	PK	3.1	21.4	39.88	46	-6.12	231	100	Horz

LIMIT 1: FCC Part 15 Subpart C 15.209

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 8 Radiated Emissions Graph EDR 2MB

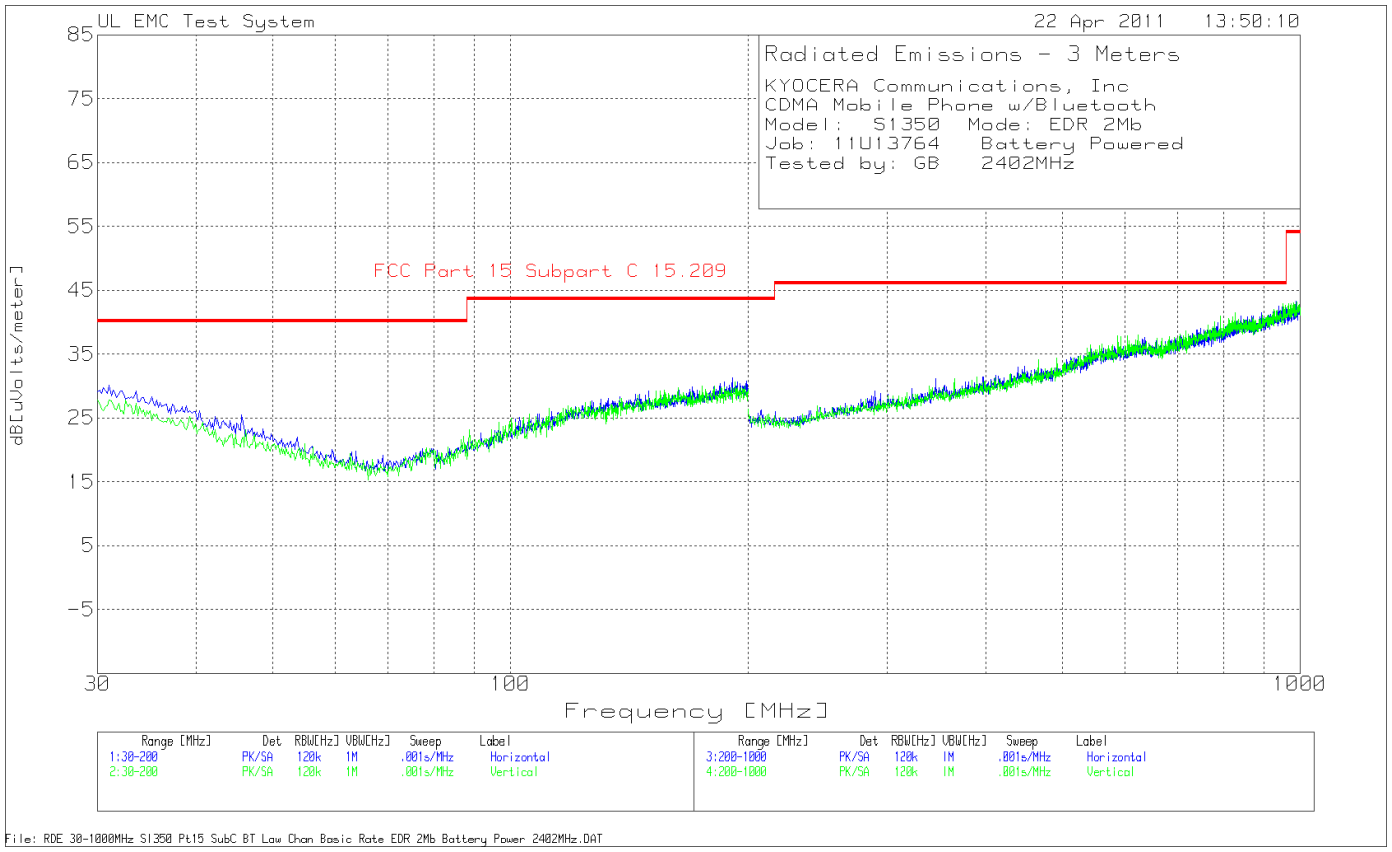


Table 9 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 Mode: EDR 2Mb
Job: 11U13764 Battery Powered
Tested by: GB
2402MHz

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[dB]	Azimuth [degs]	Height [cm]	Polarity
Horizontal 30 - 200MHz											
1	45.6557	12.84	PK	0.6	12	25.44	40	-14.56	156	200	Horz
2	190.981	14.07	PK	1.5	15.7	31.27	43.5	-12.23	128	200	Horz
Vertical 30 - 200MHz											
4	88.7087	12.17	PK	1	10	23.17	43.5	-20.33	298	100	Vert
Horizontal 200 - 1000MHz											
3	345.2726	13.56	PK	2	15.6	31.16	46	-14.84	358	100	Horz
Vertical 200 - 1000MHz											
5	466.1331	14.55	PK	2.4	17.2	34.15	46	-11.85	18	100	Vert
6	792.6963	15.33	PK	3.2	22.4	40.93	46	-5.07	357	300	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 9 Radiated Emissions Graph EDR 3MB

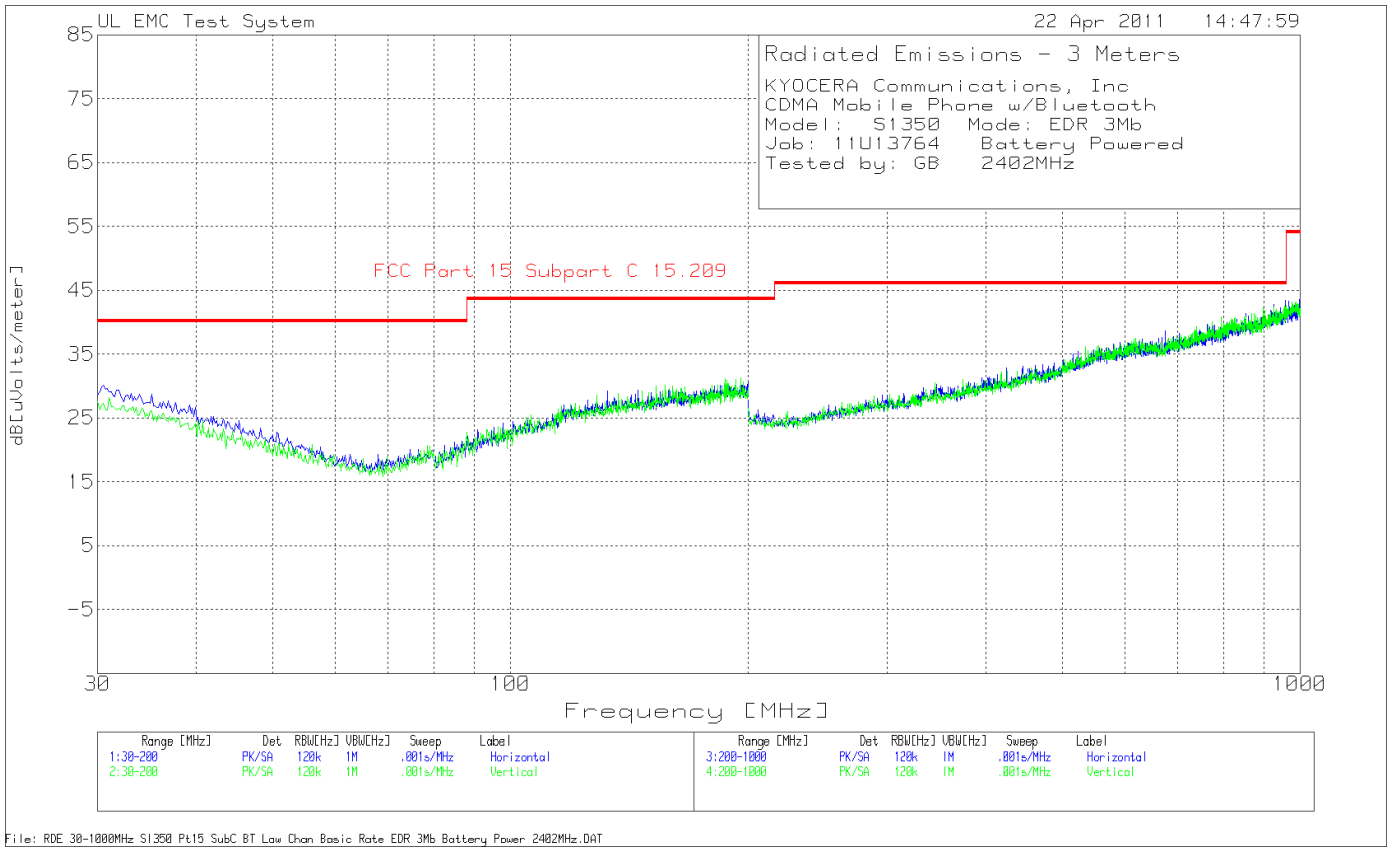


Table 10 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 Mode: EDR 3Mb
Job: 11U13764 Battery Powered
Tested by: GB
2402MHz

Marker	Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Azimuth [degs]	Height [cm]	Polarity
Number	Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]					
Horizontal 30 - 200MHz											
1	35.1051	11.67	PK	0.6	16.4	28.67	40	-11.33	43	400	Horz
2	132.6126	14.02	PK	1.2	14	29.22	43.5	-14.28	13	100	Horz
Vertical 30 - 200MHz											
3	187.0671	13.56	PK	1.5	16.1	31.16	43.5	-12.34	357	100	Vert
Horizontal 200 - 1000MHz											
4	674.6373	14.88	PK	3	20.7	38.58	46	-7.42	258	400	Horz
Vertical 200 - 1000MHz											
5	534.9675	14.29	PK	2.6	19.3	36.19	46	-9.81	2	300	Vert
6	898.3492	15.57	PK	3.5	23.2	42.27	46	-3.73	0	400	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

EMISSIONS DATA ABOVE 1GHz

Figure 10 Radiated Emissions Graph – Low Channel Basic Rate AC Powered

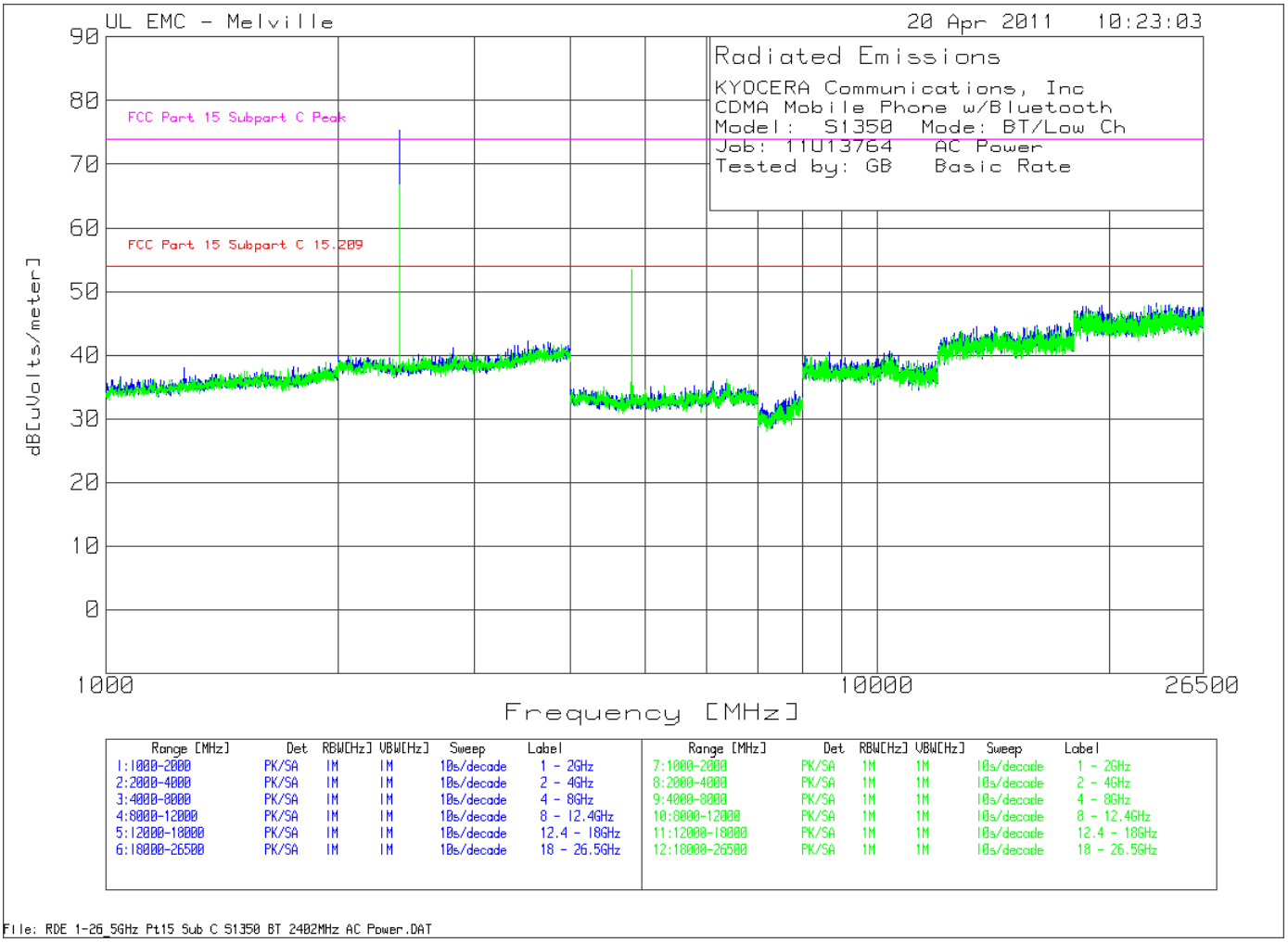


Table 11 Radiated Emissions Data Points

KYOCERA Communications, Inc

CDMA Mobile Phone w/Bluetooth

Model: S1350 Mode: BT/Low Ch

Job: 11U13764 AC Power

Tested by: GB Basic Rate

Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
4 - 8GHz 4000 - 8000MHz												
4804.3176	84.87	PK	-52.54	27.1	59.43	-	-	74	-14.57	175	114	Horz
4804.3176	68.34	Av	-52.54	27.1	42.9	54	-11.1	-	-	175	114	Horz
4 - 8GHz 4000 - 8000MHz												
4804.3377	79.76	PK	-52.54	27.3	54.52	-	-	74	-19.48	78	298	Vert
4804.3377	63.96	Av	-52.54	27.3	38.72	54	-15.28	-	-	78	298	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209

LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector

QP - Quasi-Peak detector

LnAv - Linear Average detector

LgAv - Log Average detector

Av - Average detector

CAV - CISPR Average detector

RMS - RMS detection

CRMS - CISPR RMS detection

Figure 11 Radiated Emissions Graph – Mid Channel Basic Rate AC Powered

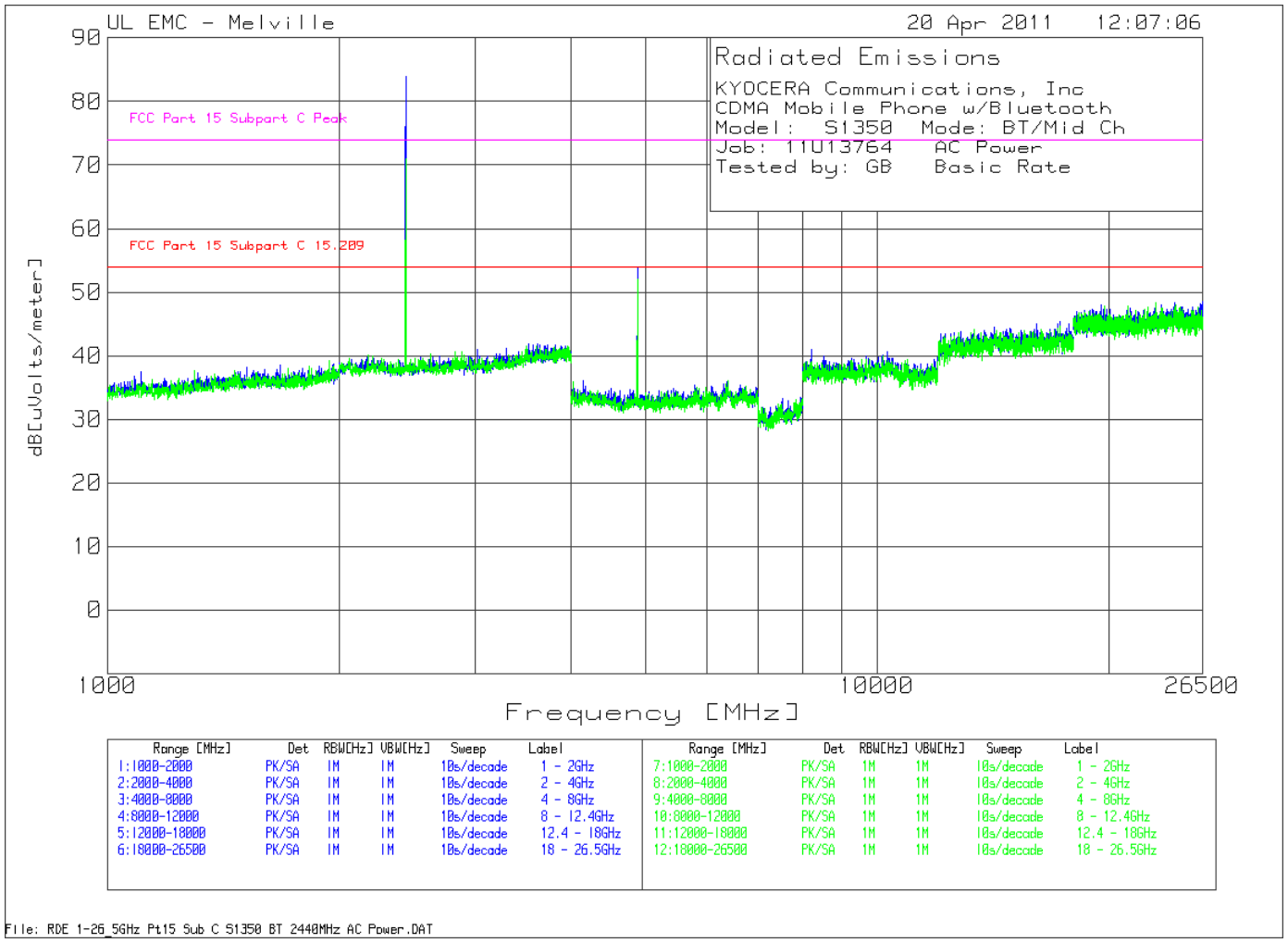


Table 12 Radiated Emissions Data Points

KYOCERA Communications, Inc

CDMA Mobile Phone w/Bluetooth

Model: S1350 Mode: BT/Mid Ch

Job: 11U13764 AC Power

Tested by: GB Basic Rate

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4881.6784	85.1	PK	-52.52	27.2	59.78	-	-	74	-14.22	216	334	Horz
4881.6784	71.5	Av	-52.52	27.2	46.18	54	-7.82	-	-	216	334	Horz
4 - 8GHz 4000 - 8000MHz												
4882.3497	86.84	PK	-52.53	27.5	61.81	-	-	74	-12.19	290	367	Vert
4882.3497	72.84	Av	-52.53	27.5	47.81	54	-6.19	-	-	290	367	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209

LIMIT 2: FCC Part 15 Subpart C Peak

LIMIT 3: NONE

LIMIT 4: NONE

LIMIT 5: NONE

LIMIT 6: NONE

PK - Peak detector

QP - Quasi-Peak detector

LnAv - Linear Average detector

LgAv - Log Average detector

Av - Average detector

CAV - CISPR Average detector

RMS - RMS detection

CRMS - CISPR RMS detection

Figure 12 Radiated Emissions Graph – High Channel Basic Rate AC Powered

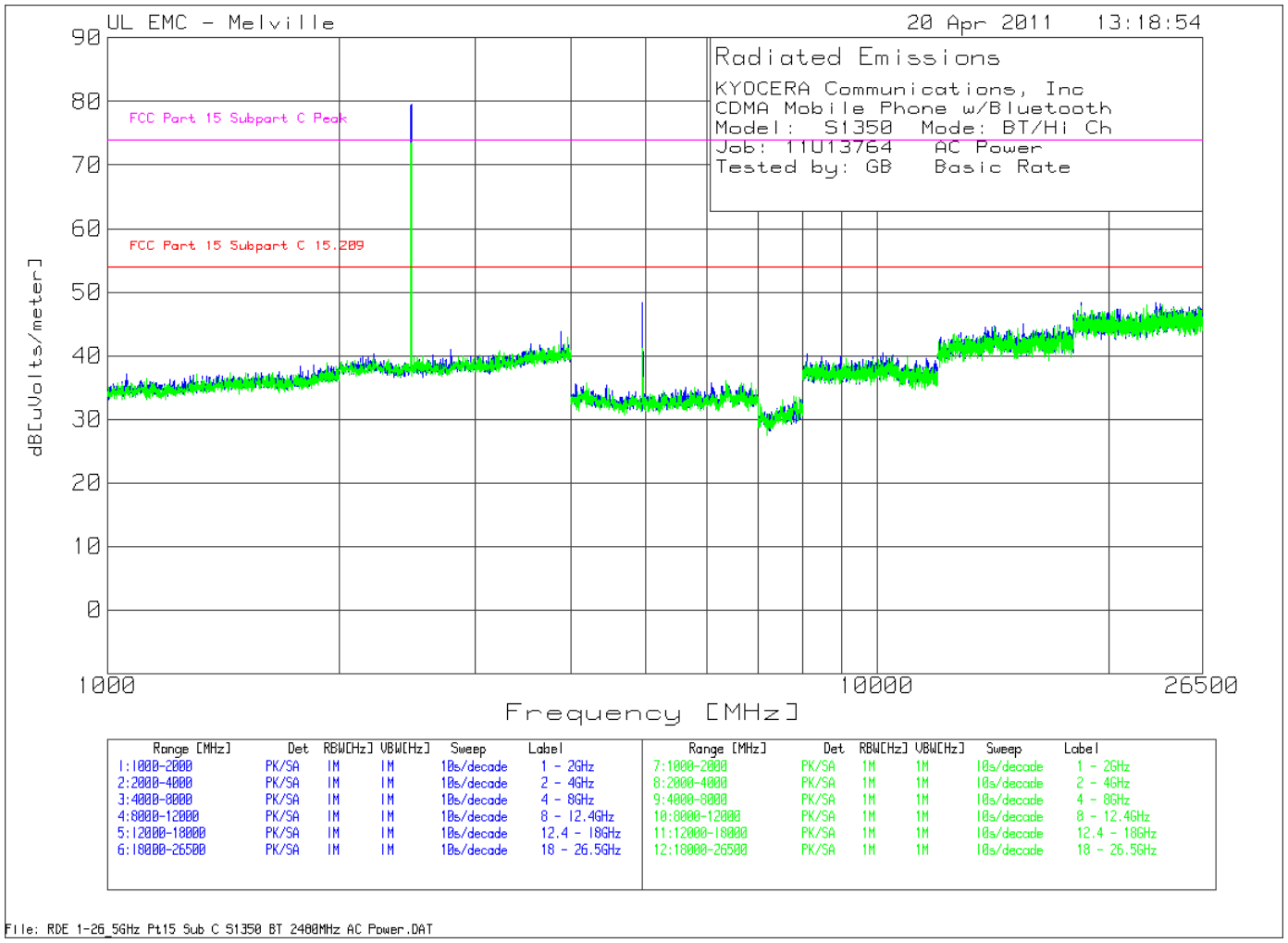


Table 13 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 Mode: BT/Hi Ch
Job: 11U13764 AC Power
Tested by: GB Basic Rate

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4960.2956	81.19	PK	-52.5	27.3	55.99	-	-	74	-18.01	129	235	Horz
4960.2956	67.56	Av	-52.5	27.3	42.36	54	-11.64	-	-	129	235	Horz
4 - 8GHz 4000 - 8000MHz												
4959.6142	85.61	PK	-52.51	27.4	60.5	-	-	74	-13.5	325	400	Vert
4959.6142	71.49	Av	-52.51	27.4	46.38	54	-7.62	-	-	325	400	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak
LIMIT 3: NONE
LIMIT 4: NONE
LIMIT 5: NONE
LIMIT 6: NONE

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 13 Radiated Emissions Graph – Low Channel EDR 2MB Rate AC Powered

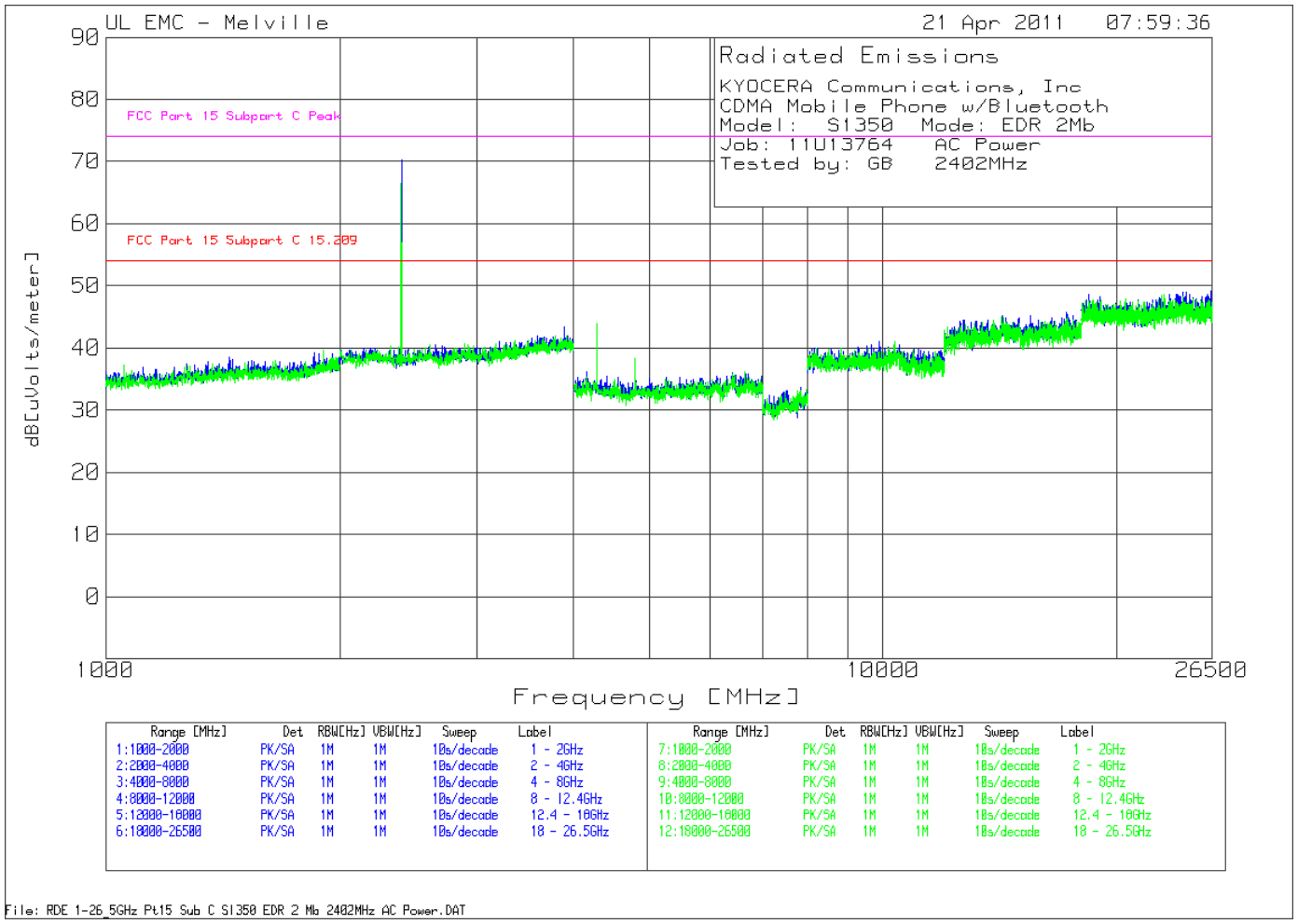


Table 14 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 Mode: EDR 2Mb
Job: 11U13764 AC Power
Tested by: GB 2402MHz

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4804.2675	80.32	PK	-52.54	27.1	54.88	-	-	74	-19.12	206	262	Horz
4804.2675	56.65	Av	-52.54	27.1	31.21	54	-22.79	-	-	206	262	Horz
4 - 8GHz 4000 - 8000MHz												
4803.997	80.18	PK	-52.53	27.3	54.95	-	-	74	-19.05	290	333	Vert
4803.997	57.13	Av	-52.53	27.3	31.9	54	-22.1	-	-	290	333	Vert
4281.6182	60.37	PK	-52.06	27.8	36.11	-	-	74	-37.89	246	350	Vert
4281.6182	47.19	Av	-52.06	27.8	22.93	54	-31.07	-	-	246	350	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 14 Radiated Emissions Graph – Mid Channel EDR 2MB Rate AC Powered

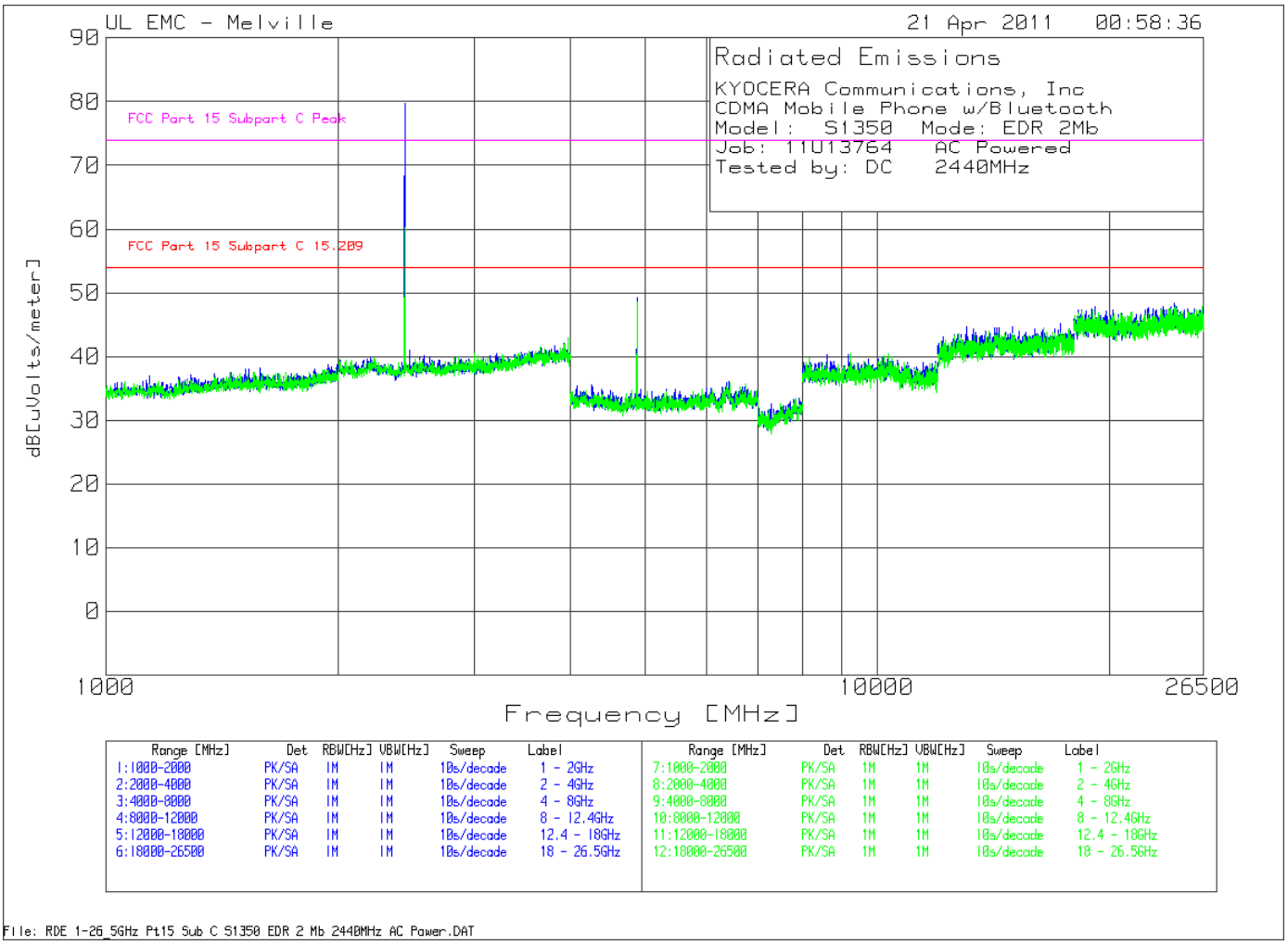


Table 15 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 Mode: EDR 2Mb
Job: 11U13764 AC Powered
Tested by: DC 2440MHz

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4881.9748	81.38	PK	-52.52	27.2	56.06	-	-	74	-17.94	298	341	Horz
4881.9748	57.31	Av	-52.52	27.2	31.99	54	-22.01	-	-	298	341	Horz
4 - 8GHz 4000 - 8000MHz												
4881.6663	80.88	PK	-52.52	27.5	55.86	-	-	74	-18.14	28	312	Vert
4881.6663	58.14	Av	-52.52	27.5	33.12	54	-20.88	-	-	28	312	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 15 Radiated Emissions Graph – High Channel EDR 2MB Rate AC Powered

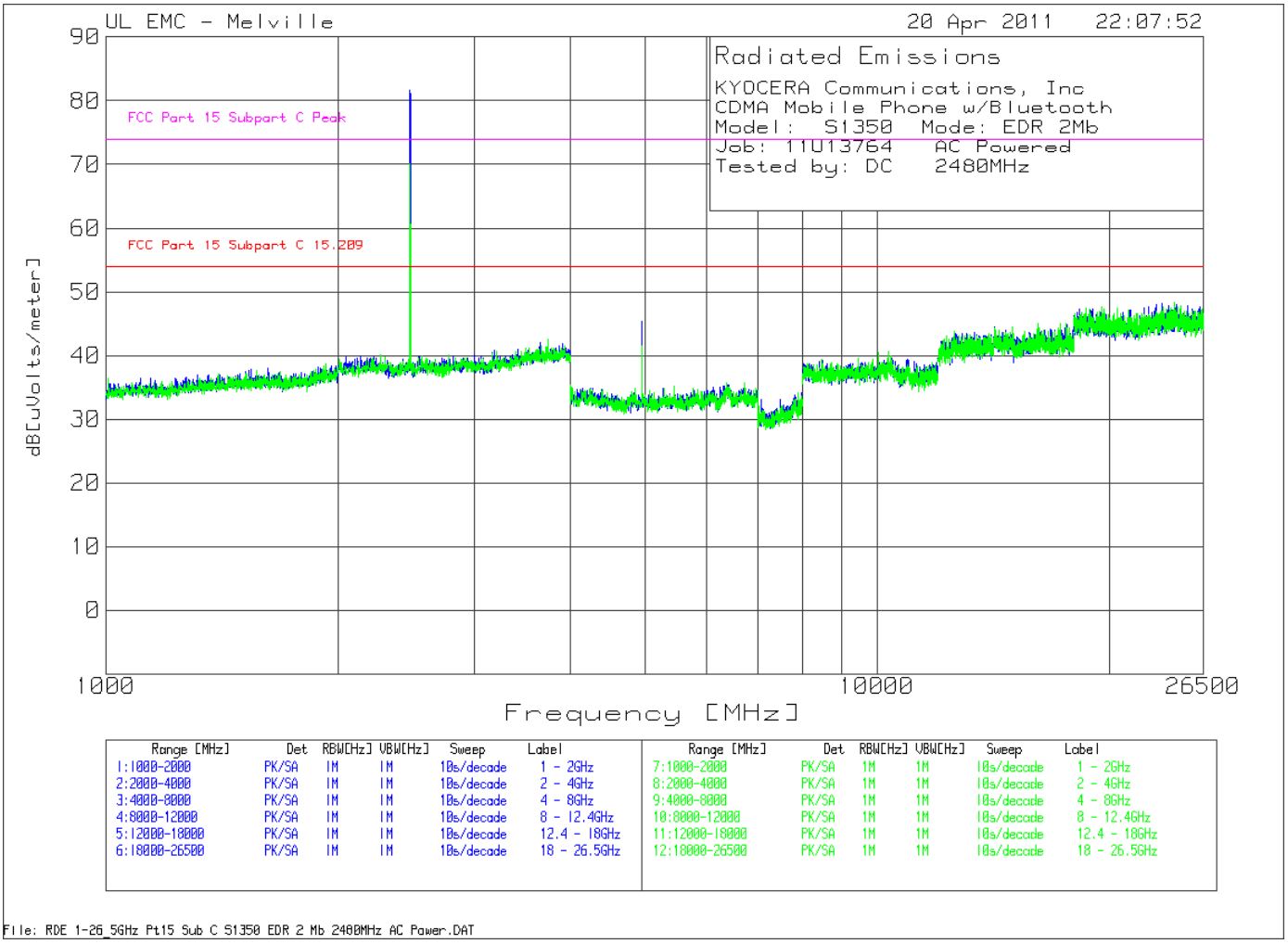


Table 16 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 Mode: EDR 2Mb
Job: 11U13764 AC Powered
Tested by: DC 2480MHz

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4959.9152	75.02	PK	-52.51	27.3	49.81	-	-	74	-24.19	344	154	Horz
4959.9152	55.15	Av	-52.51	27.3	29.94	54	-24.06	-	-	344	154	Horz
18 - 26.5GHz 18000 - 26500MHz												
23013.591	59.61	PK	-52.73	40.6	47.48	-	-	74	-26.52	266	298	Horz
23013.591	47.68	Av	-52.73	40.6	35.55	54	-18.45	-	-	266	298	Horz
4 - 8GHz 4000 - 8000MHz												
4959.9125	78.9	PK	-52.51	27.4	53.79	-	-	74	-20.21	8	348	Vert
4959.9125	57.82	Av	-52.51	27.4	32.71	54	-21.29	-	-	8	348	Vert
18 - 26.5GHz 18000 - 26500MHz												
24292.488	58.8	PK	-51.74	41.1	48.16	-	-	74	-25.84	57	356	Vert
24292.488	46.81	Av	-51.74	41.1	36.17	54	-17.83	-	-	57	356	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 16 Radiated Emissions Graph – Low Channel EDR 3MB Rate AC Powered

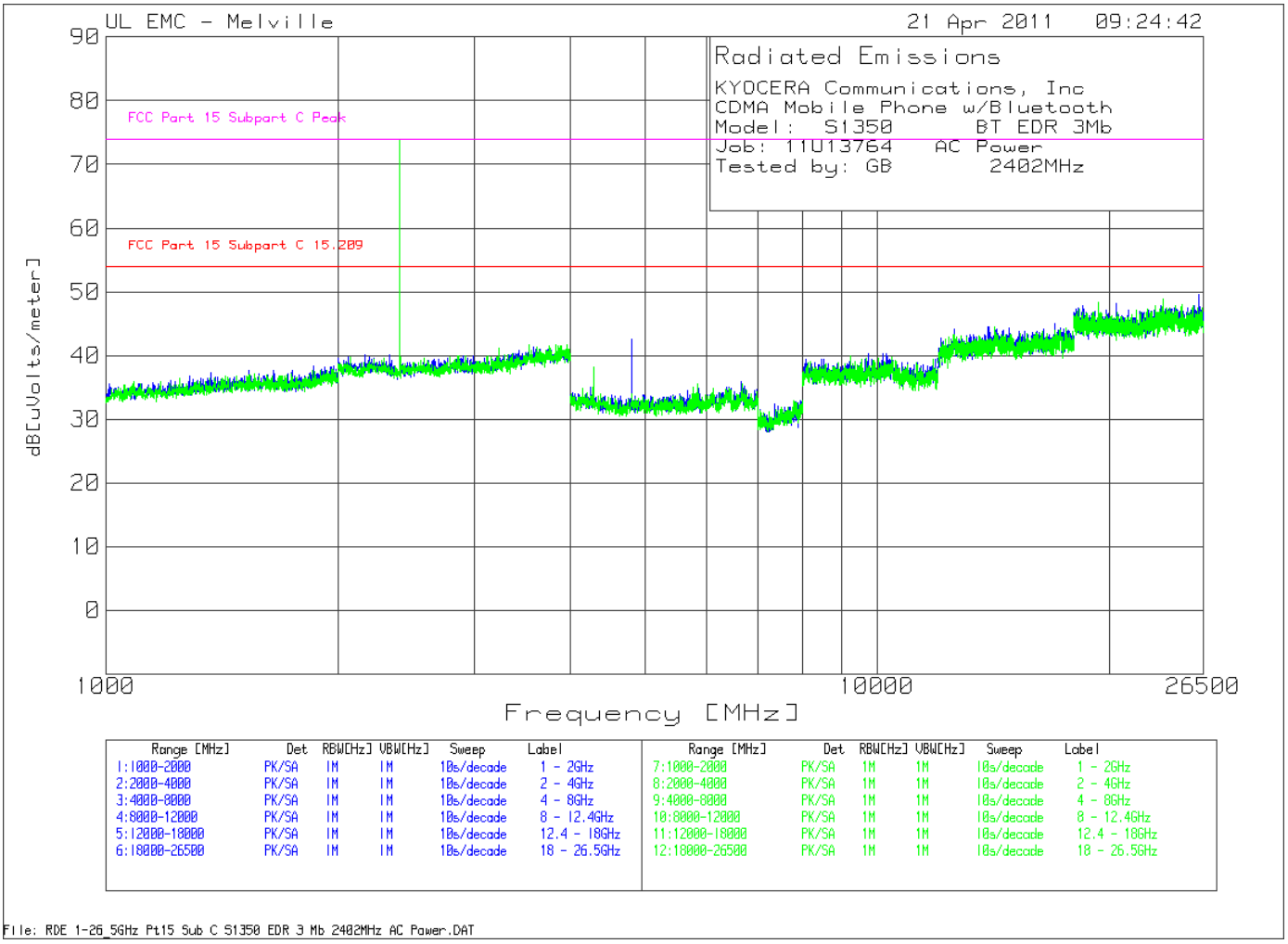


Table 17 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 BT EDR 3Mb
Job: 11U13764 AC Power
Tested by: GB 2402MHz

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4803.9549	78.14	PK	-52.53	27.1	52.71	-	-	74	-21.29	194	119	Horz
4803.9549	56.35	Av	-52.53	27.1	30.92	54	-23.08	-	-	194	119	Horz
4 - 8GHz 4000 - 8000MHz												
4803.7044	80.21	PK	-52.53	27.3	54.98	-	-	74	-19.02	331	371	Vert
4803.7044	57.49	Av	-52.53	27.3	32.26	54	-21.74	-	-	331	371	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 17 Radiated Emissions Graph – Mid Channel EDR 3MB Rate AC Powered

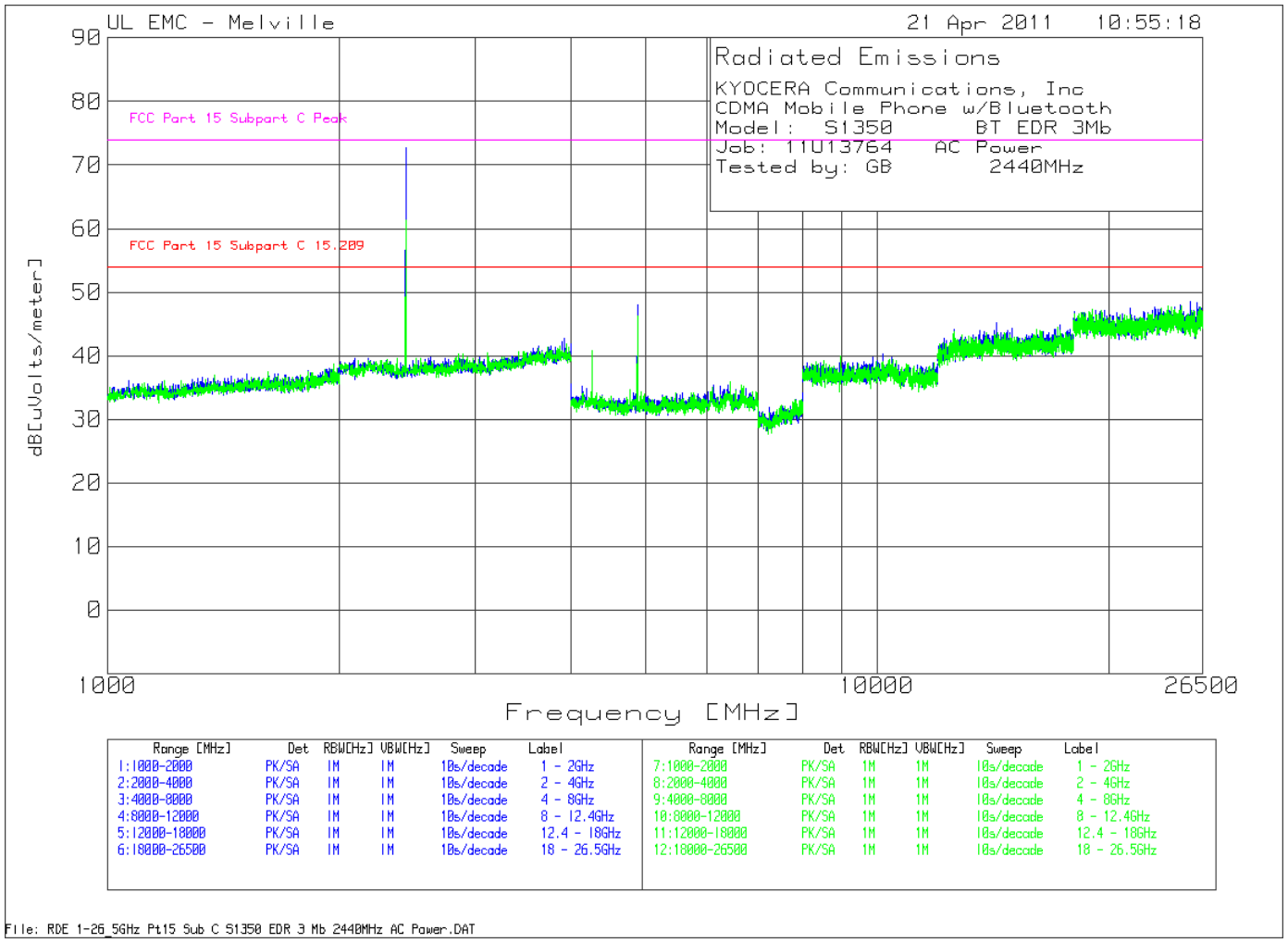


Table 18 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 BT EDR 3Mb
Job: 11U13764 AC Power
Tested by: GB 2440MHz

Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
4 - 8GHz 4000 - 8000MHz												
4881.6834	79.34	PK	-52.52	27.2	54.02	-	-	74	-19.98	125	340	Horz
4881.6834	47.68	Av	-52.52	27.2	22.36	54	-31.64	-	-	125	340	Horz
4 - 8GHz 4000 - 8000MHz												
4881.6583	80.34	PK	-52.52	27.5	55.32	-	-	74	-18.68	270	332	Vert
4881.6583	70.37	Av	-52.52	27.5	45.35	54	-8.65	-	-	270	332	Vert
4263.8607	57.36	PK	-52.16	27.8	33	-	-	74	-41	205	265	Vert
4263.8607	45.28	Av	-52.16	27.8	20.92	54	-33.08	-	-	205	265	Vert
4882.0391	74.44	PK	-52.53	27.5	49.41	-	-	74	-24.59	244	202	Horz
4882.0391	49.25	Av	-52.53	27.5	24.22	54	-29.78	-	-	244	202	Horz

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 18 Radiated Emissions Graph – High Channel EDR 3MB Rate AC Powered

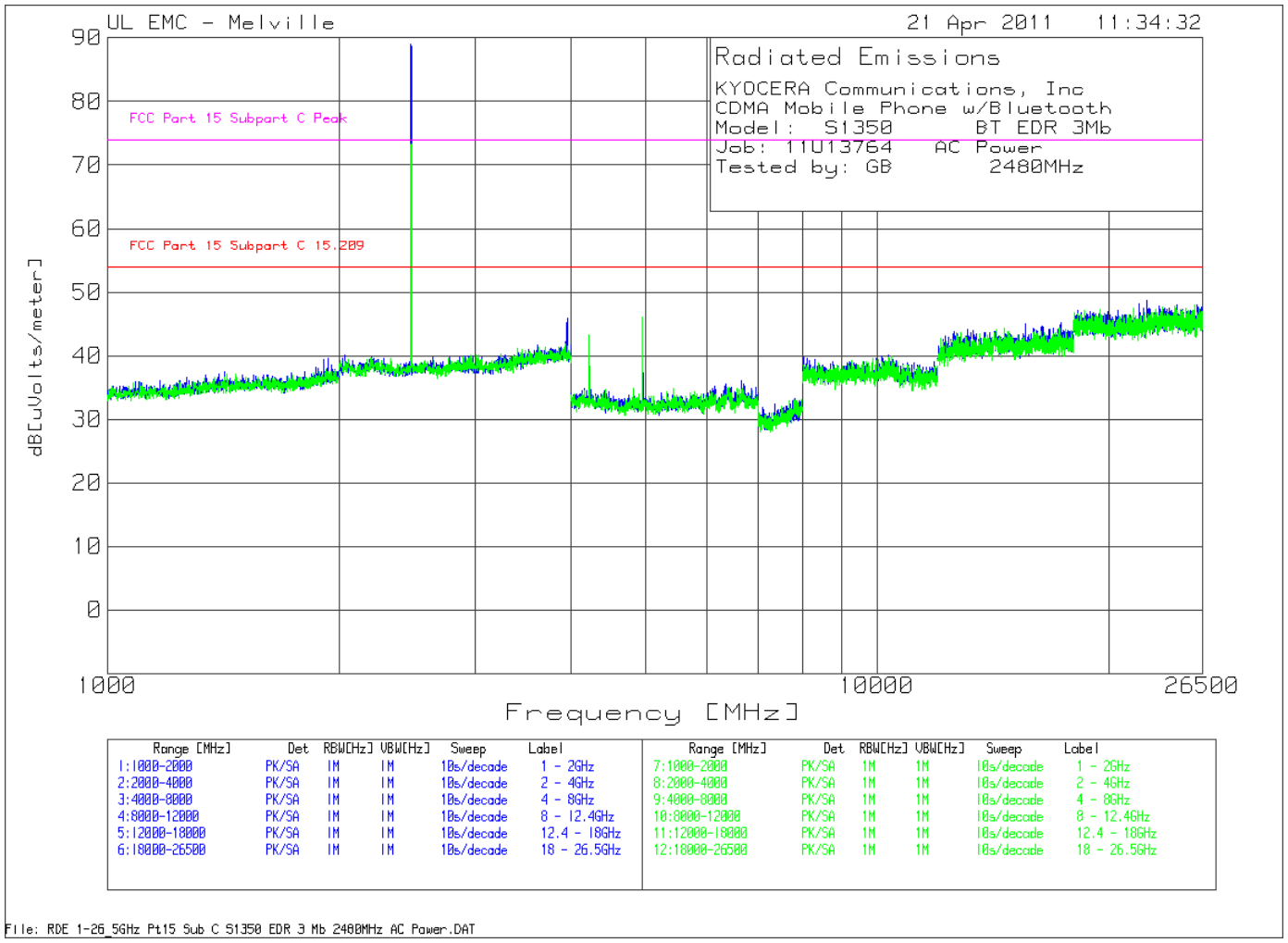


Table 19 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 BT EDR 3Mb
Job: 11U13764 AC Power
Tested by: GB 2480MHz

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
2 - 4GHz 2000 - 4000MHz												
3949	67.05	PK	-41.67	22.7	48.08	-	-	74	-25.92	254	243	Horz
3949	38.2	Av	-41.67	22.7	19.23	54	-34.77	-	-	254	243	Horz
4 - 8GHz 4000 - 8000MHz												
4960.2555	78.27	PK	-52.5	27.3	53.07	-	-	74	-20.93	343	346	Horz
4960.2555	44.02	Av	-52.5	27.3	18.82	54	-35.18	-	-	343	346	Horz
4 - 8GHz 4000 - 8000MHz												
4959.6543	79.72	PK	-52.51	27.4	54.61	-	-	74	-19.39	333	310	Vert
4959.6543	54.06	Av	-52.51	27.4	28.95	54	-25.05	-	-	333	310	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 19 Radiated Emissions Graph – Low Channel Basic Rate Battery Powered

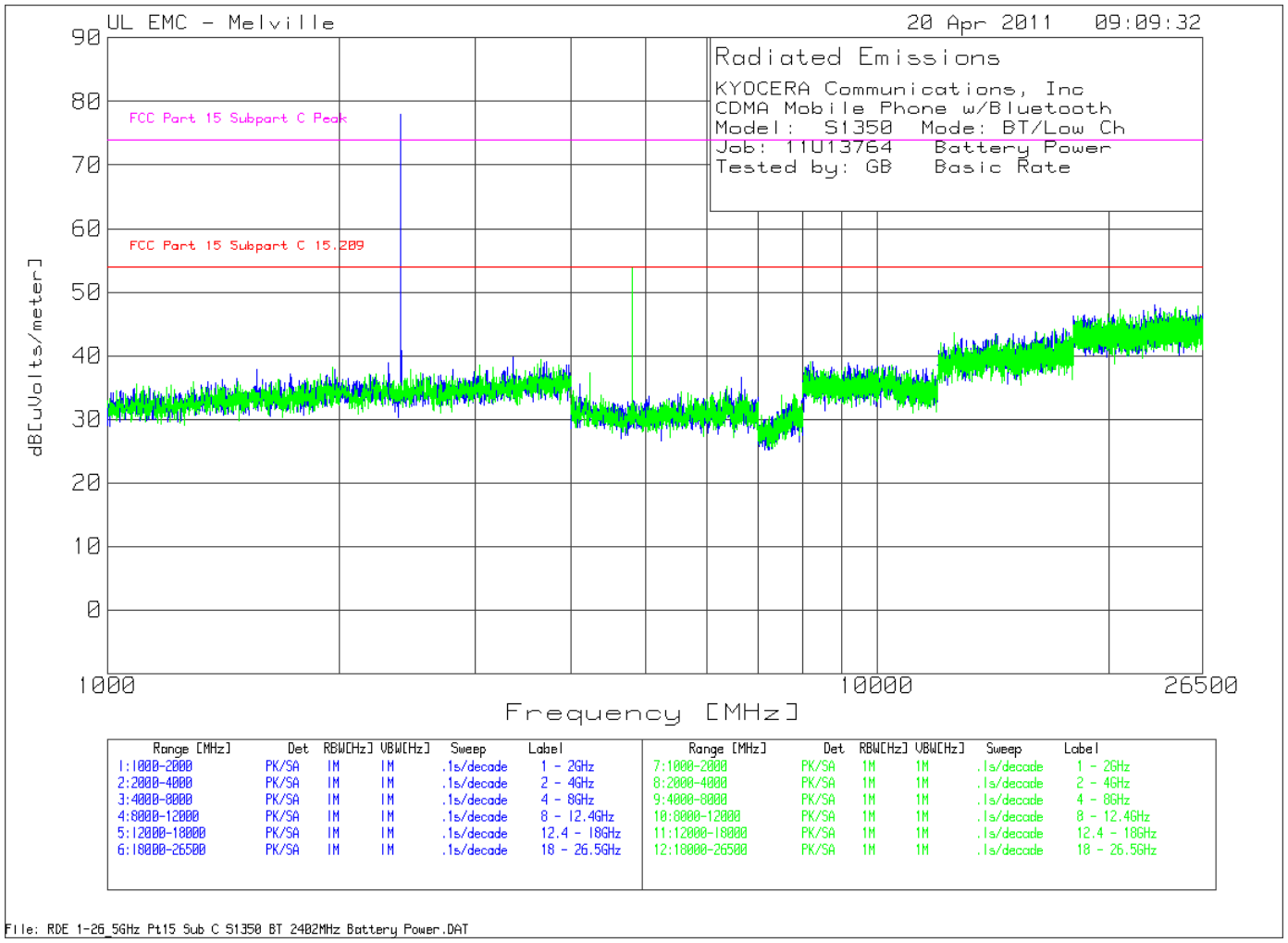


Table 20 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 Mode: BT/Low Ch
Job: 11U13764 Battery Power
Tested by: GB Basic Rate

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4804.3176	83.84	PK	-52.54	27.1	58.4	-	-	74	-15.6	313	369	Horz
4804.3176	70.08	Av	-52.54	27.1	44.64	54	-9.36	-	-	313	369	Horz
4 - 8GHz 4000 - 8000MHz												
4804.3277	85.74	PK	-52.54	27.3	60.5	-	-	74	-13.5	346	374	Vert
4804.3277	71.71	Av	-52.54	27.3	46.47	54	-7.53	-	-	346	374	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 20 Radiated Emissions Graph – Mid Channel Basic Rate Battery Powered

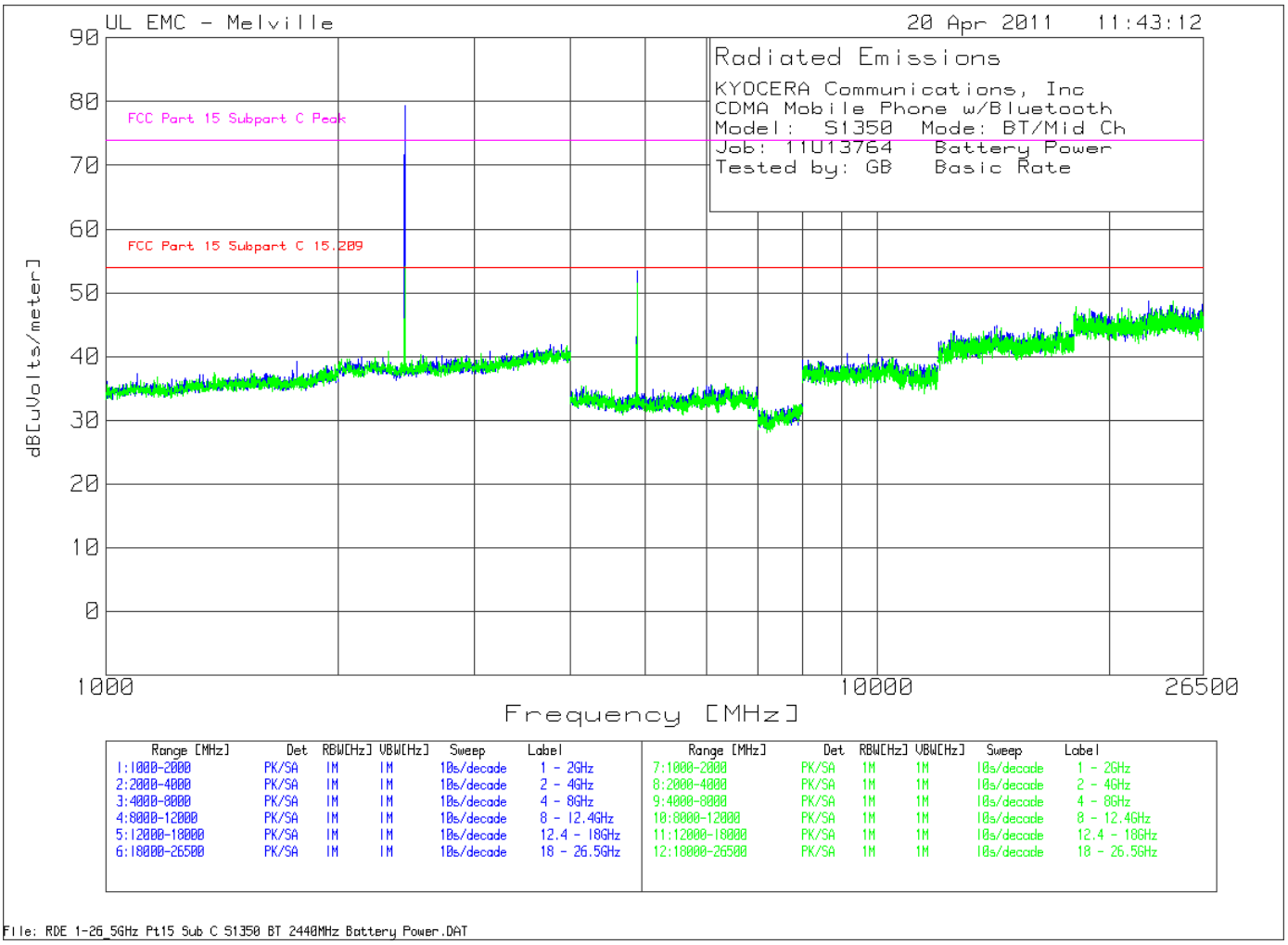


Table 21 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 Mode: BT/Mid Ch
Job: 11U13764 Battery Power
Tested by: GB Basic Rate

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4881.6683	83.12	PK	-52.52	27.2	57.8	-	-	74	-16.2	135	240	Horz
4881.6683	69.32	Av	-52.52	27.2	44	54	-10	-	-	135	240	Horz
4 - 8GHz 4000 - 8000MHz												
4882.3347	87.36	PK	-52.53	27.5	62.33	-	-	74	-11.67	339	364	Vert
4882.3347	73.61	Av	-52.53	27.5	48.58	54	-5.42	-	-	339	364	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 21 Radiated Emissions Graph – High Channel Basic Rate Battery Powered

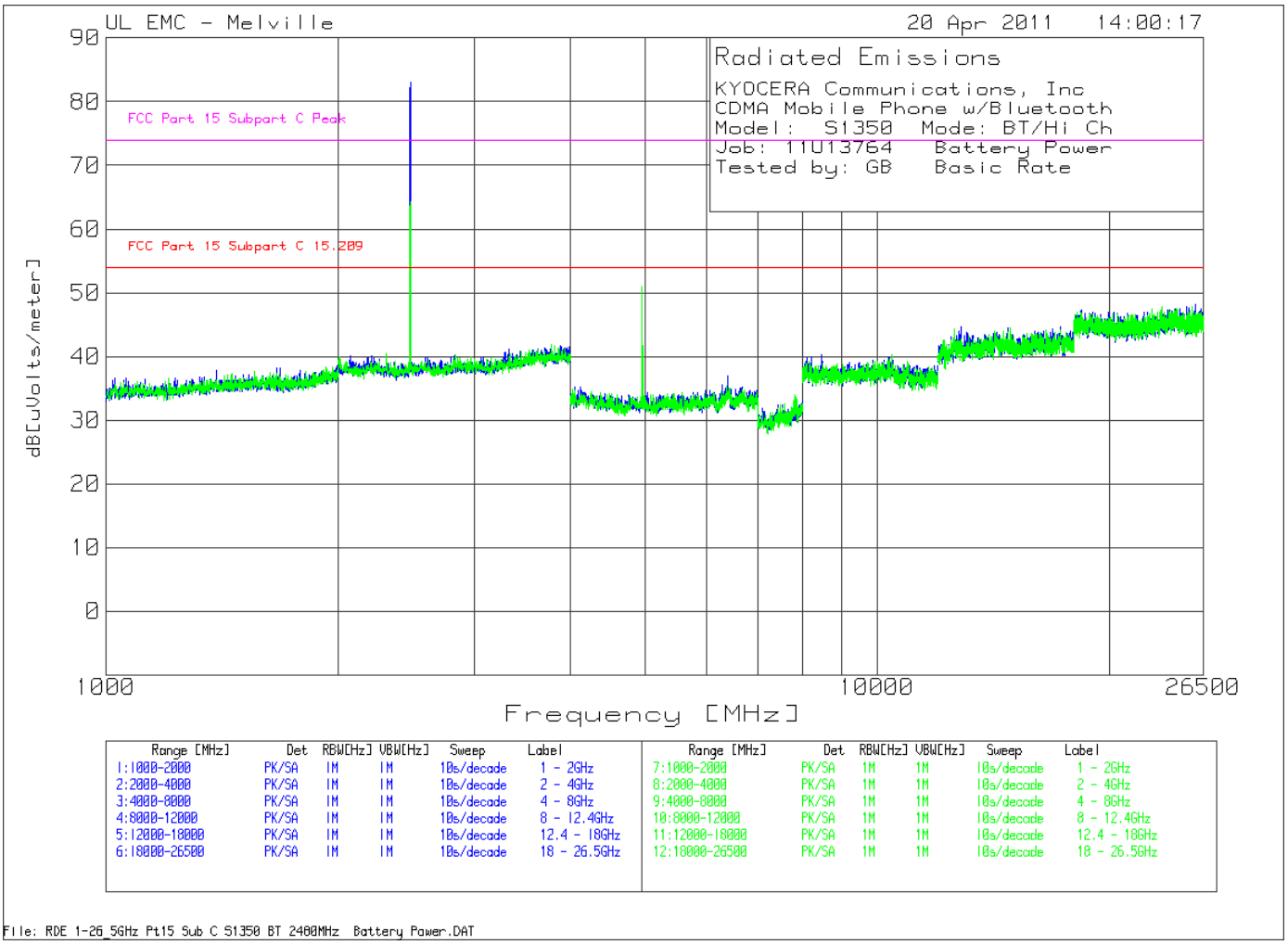


Table 22 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 Mode: BT/Hi Ch
Job: 11U13764 Battery Power
Tested by: GB Basic Rate

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4959.6242	80.88	PK	-52.51	27.3	55.67	-	-	74	-18.33	165	319	Horz
4959.6242	66.85	Av	-52.51	27.3	41.64	54	-12.36	-	-	165	319	Horz
4 - 8GHz 4000 - 8000MHz												
4959.6543	84.81	PK	-52.51	27.4	59.7	-	-	74	-14.3	313	357	Vert
4959.6543	71.11	Av	-52.51	27.4	46	54	-8	-	-	313	357	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 22 Radiated Emissions Graph – Low Channel EDR 2MB Rate Battery Powered

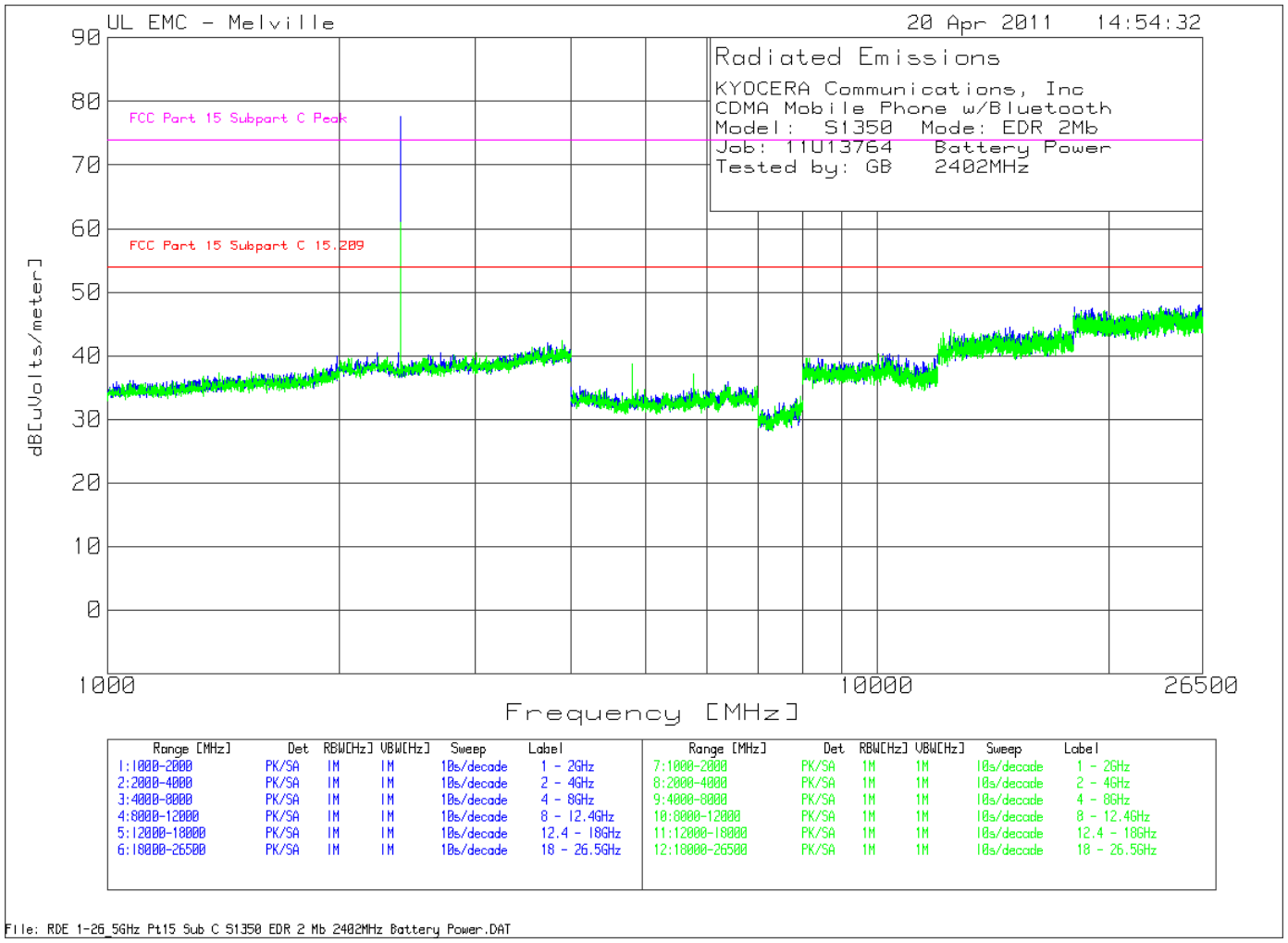


Table 23 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 Mode: EDR 2Mb
Job: 11U13764 Battery Power
Tested by: GB 2402MHz

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4804.2375	76.32	PK	-52.54	27.1	50.88	-	-	74	-23.12	46	199	Horz
4804.2375	55.17	Av	-52.54	27.1	29.73	54	-24.27	-	-	46	199	Horz
4 - 8GHz 4000 - 8000MHz												
4804.3978	80.48	PK	-52.54	27.3	55.24	-	-	74	-18.76	0	400	Vert
4804.3978	56.48	Av	-52.54	27.3	31.24	54	-22.76	-	-	0	400	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 23 Radiated Emissions Graph – Mid Channel EDR 2MB Rate Battery Powered

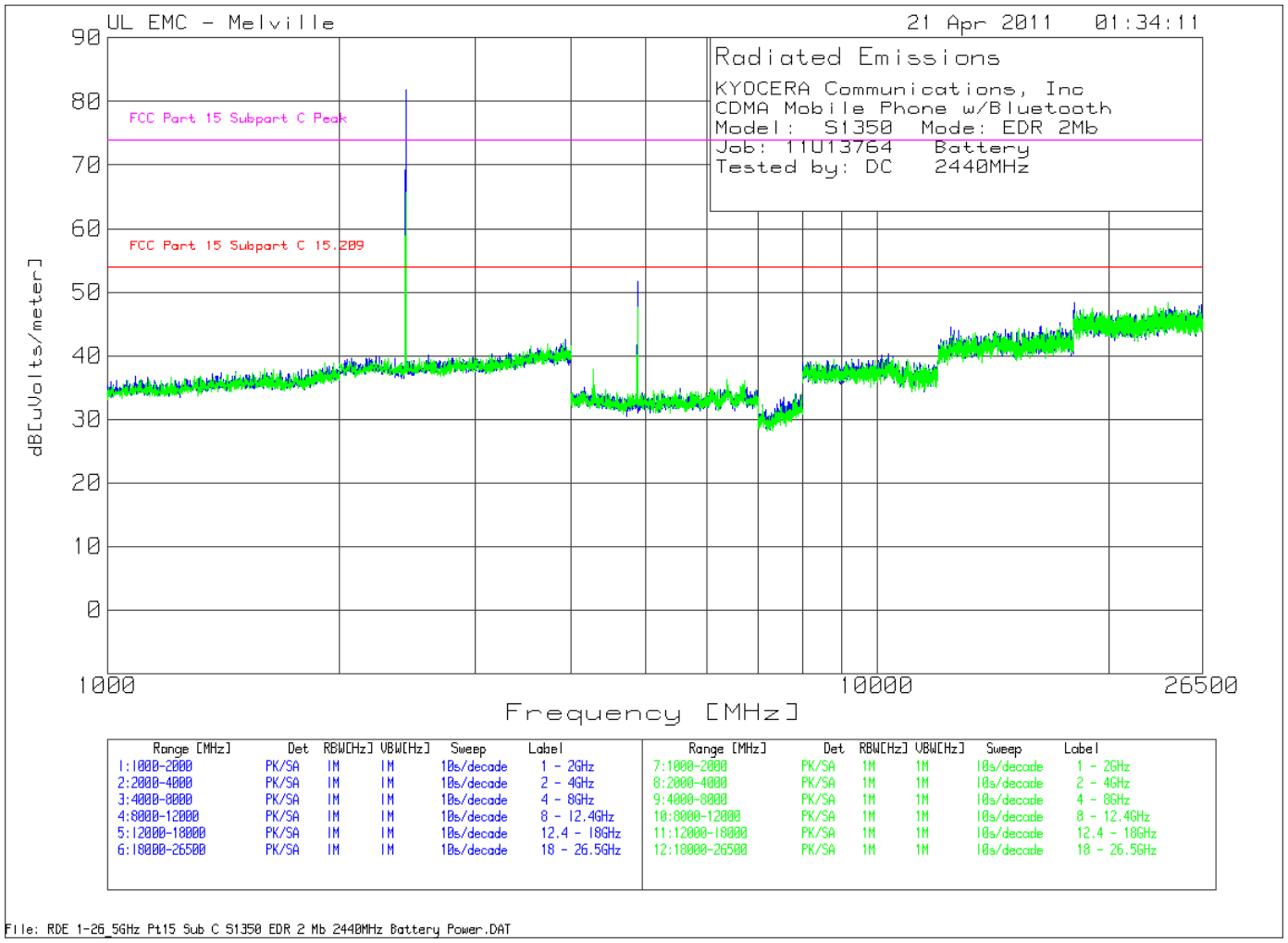


Table 24 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 Mode: EDR 2Mb
Job: 11U13764 Battery
Tested by: DC 2440MHz

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4881.9664	81.1	PK	-52.52	27.2	55.78	-	-	74	-18.22	297	337	Horz
4881.9664	57.68	Av	-52.52	27.2	32.36	54	-21.64	-	-	297	337	Horz
4 - 8GHz 4000 - 8000MHz												
4881.9985	79.29	PK	-52.52	27.5	54.27	-	-	74	-19.73	355	340	Vert
4881.9985	58.1	Av	-52.52	27.5	33.08	54	-20.92	-	-	355	340	Vert
4274.6942	47.18	Av	-52.11	27.8	22.87	54	-31.13	-	-	222	317	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 24 Radiated Emissions Graph – High Channel EDR 2MB Rate Battery Powered

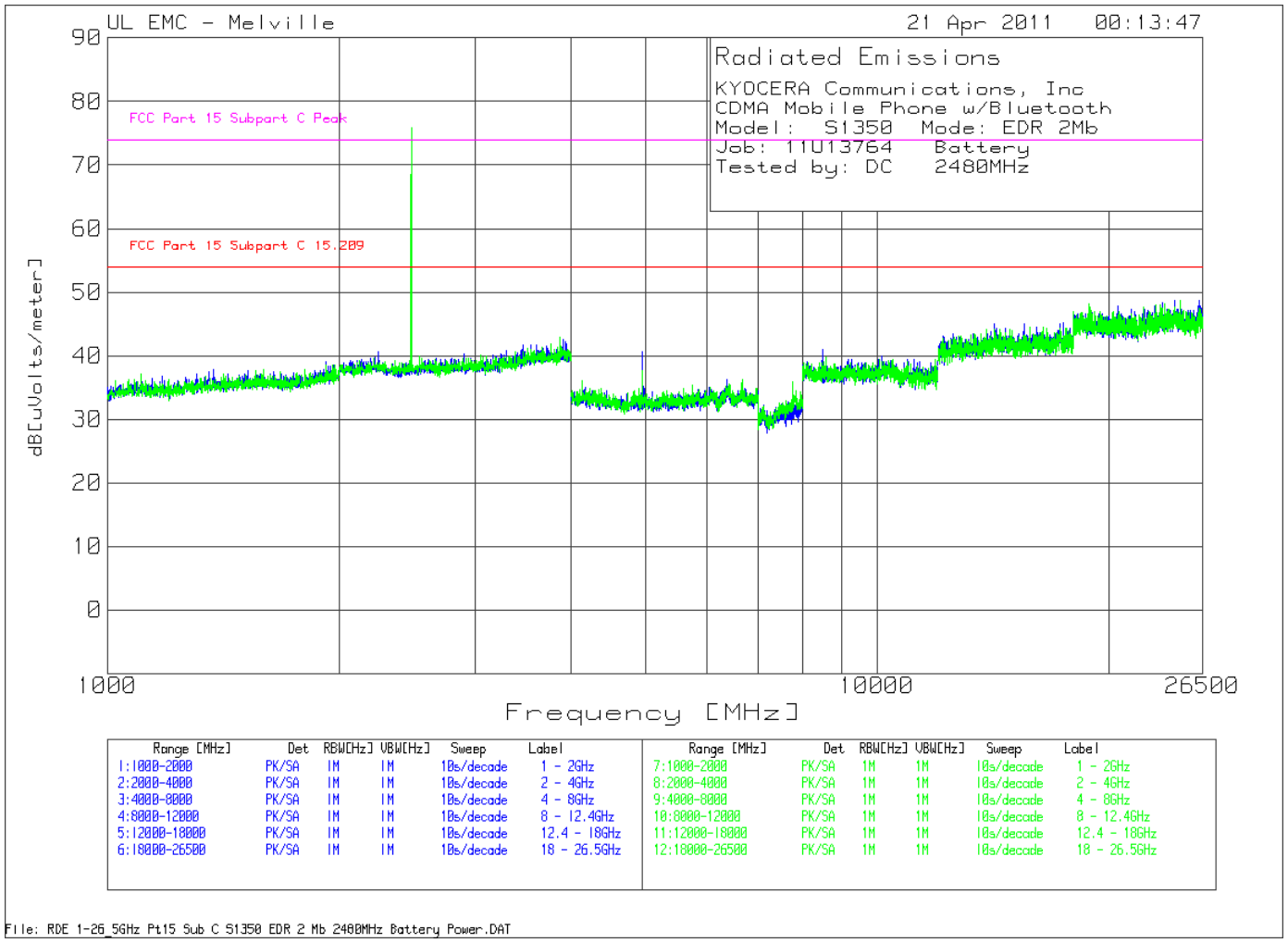


Table 25 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 Mode: EDR 2Mb
Job: 11U13764 Battery
Tested by: DC 2480MHz

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4959.9164	77.37	PK	-52.51	27.3	52.16	-	-	74	-21.84	209	278	Horz
4959.9164	55.91	Av	-52.51	27.3	30.7	54	-23.3	-	-	209	278	Horz
8 - 12.4GHz 8000 - 12000MHz												
8496.3228	56.43	PK	-49.87	33.2	39.76	-	-	74	-34.24	20	393	Horz
8496.3228	44.48	Av	-49.87	33.2	27.81	54	-26.19	-	-	20	393	Horz
12.4 - 18GHz 12000 - 18000MHz												
15538.755	43.41	Av	-48.88	37.3	31.83	54	-22.17	-	-	293	359	Horz
4 - 8GHz 4000 - 8000MHz												
4959.7785	77.37	PK	-52.51	27.4	52.26	-	-	74	-21.74	352	375	Vert
4959.7785	56.42	Av	-52.51	27.4	31.31	54	-22.69	-	-	352	375	Vert
7775.8379	44.39	Av	-50.69	28.9	22.6	54	-31.4	-	-	240	384	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 25 Radiated Emissions Graph – Low Channel EDR 3MB Rate Battery Powered

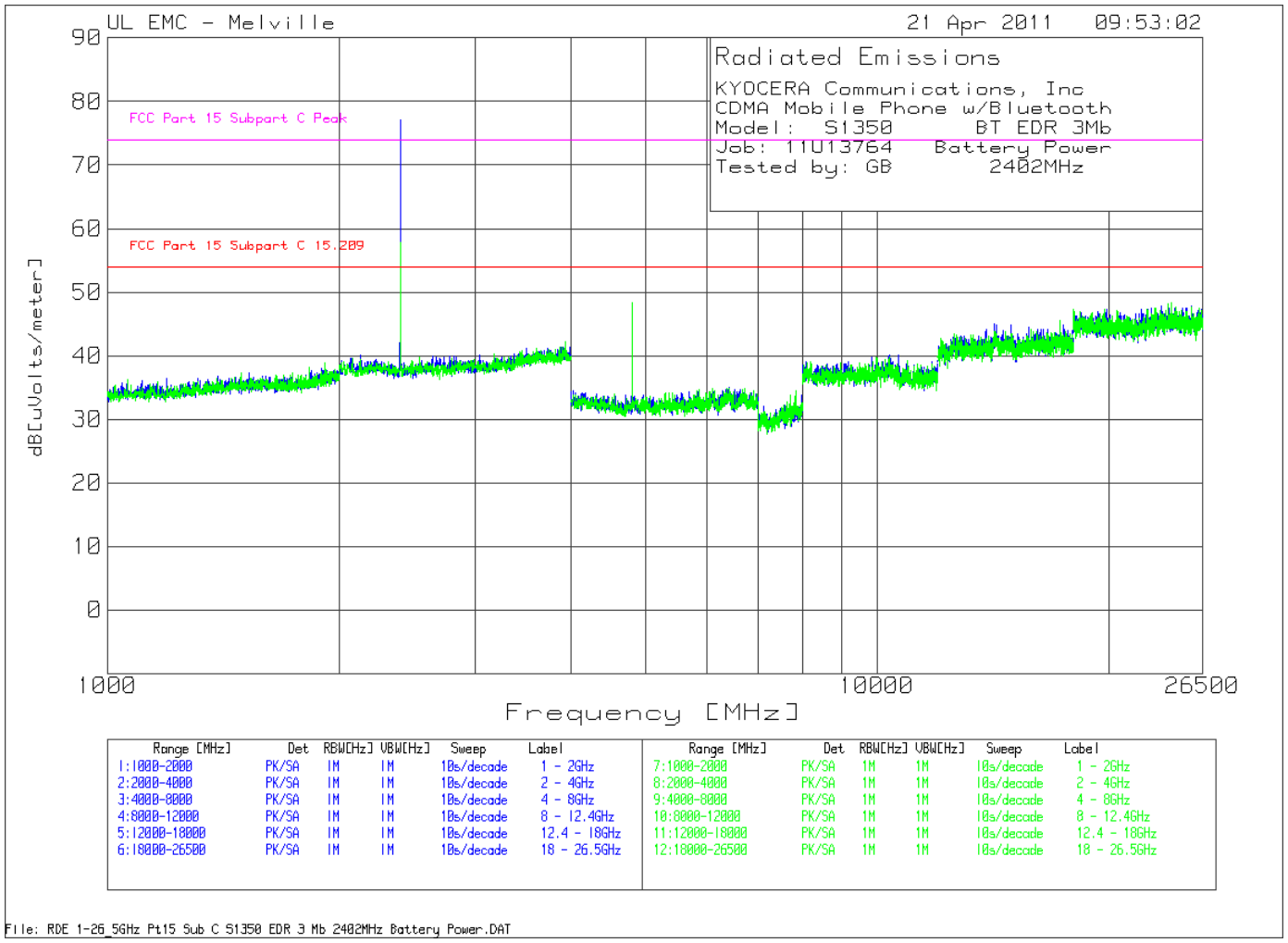


Table 26 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 BT EDR 3Mb
Job: 11U13764 Battery Power
Tested by: GB 2402MHz

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4804.2255	78.31	PK	-52.54	27.1	52.87	-	-	74	-21.13	12	170	Horz
4804.2255	54.67	Av	-52.54	27.1	29.23	54	-24.77	-	-	12	170	Horz
4 - 8GHz 4000 - 8000MHz												
4804.3557	79.48	PK	-52.54	27.3	54.24	-	-	74	-19.76	0	328	Vert
4804.3557	56.62	Av	-52.54	27.3	31.38	54	-22.62	-	-	0	328	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 26 Radiated Emissions Graph – Mid Channel EDR 3MB Rate Battery Powered

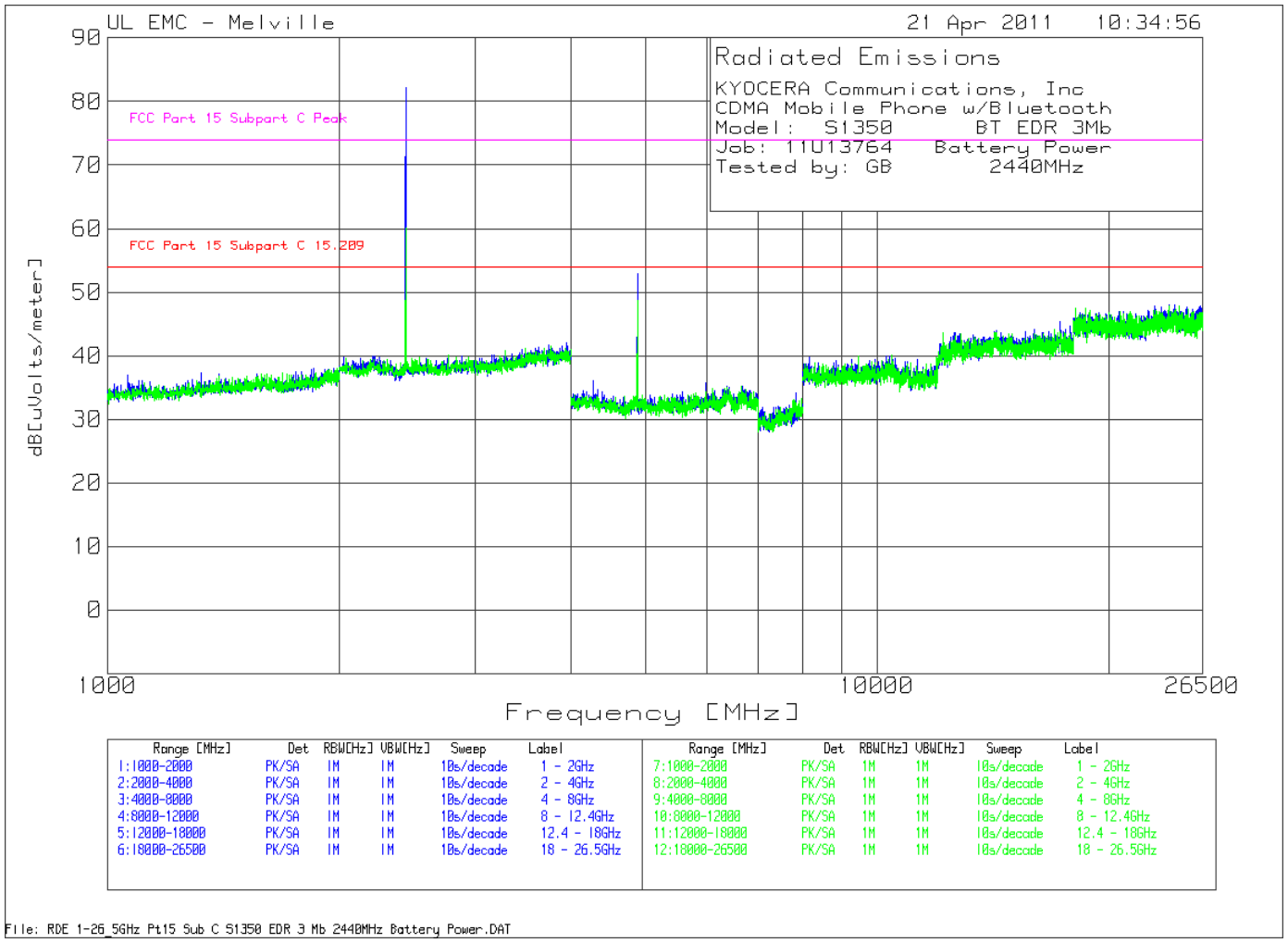


Table 27 Radiated Emissions Data Points

KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 BT EDR 3Mb
Job: 11U13764 Battery Power
Tested by: GB 2440MHz

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4882.014	80.1	PK	-52.53	27.2	54.77	-	-	74	-19.23	162	111	Horz
4882.014	55.64	Av	-52.53	27.2	30.31	54	-23.69	-	-	162	111	Horz
4 - 8GHz 4000 - 8000MHz												
4881.6834	82.38	PK	-52.52	27.5	57.36	-	-	74	-16.64	360	359	Vert
4881.6834	58.46	Av	-52.52	27.5	33.44	54	-20.56	-	-	360	359	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 27 Radiated Emissions Graph – High Channel EDR 3MB Rate Battery Powered

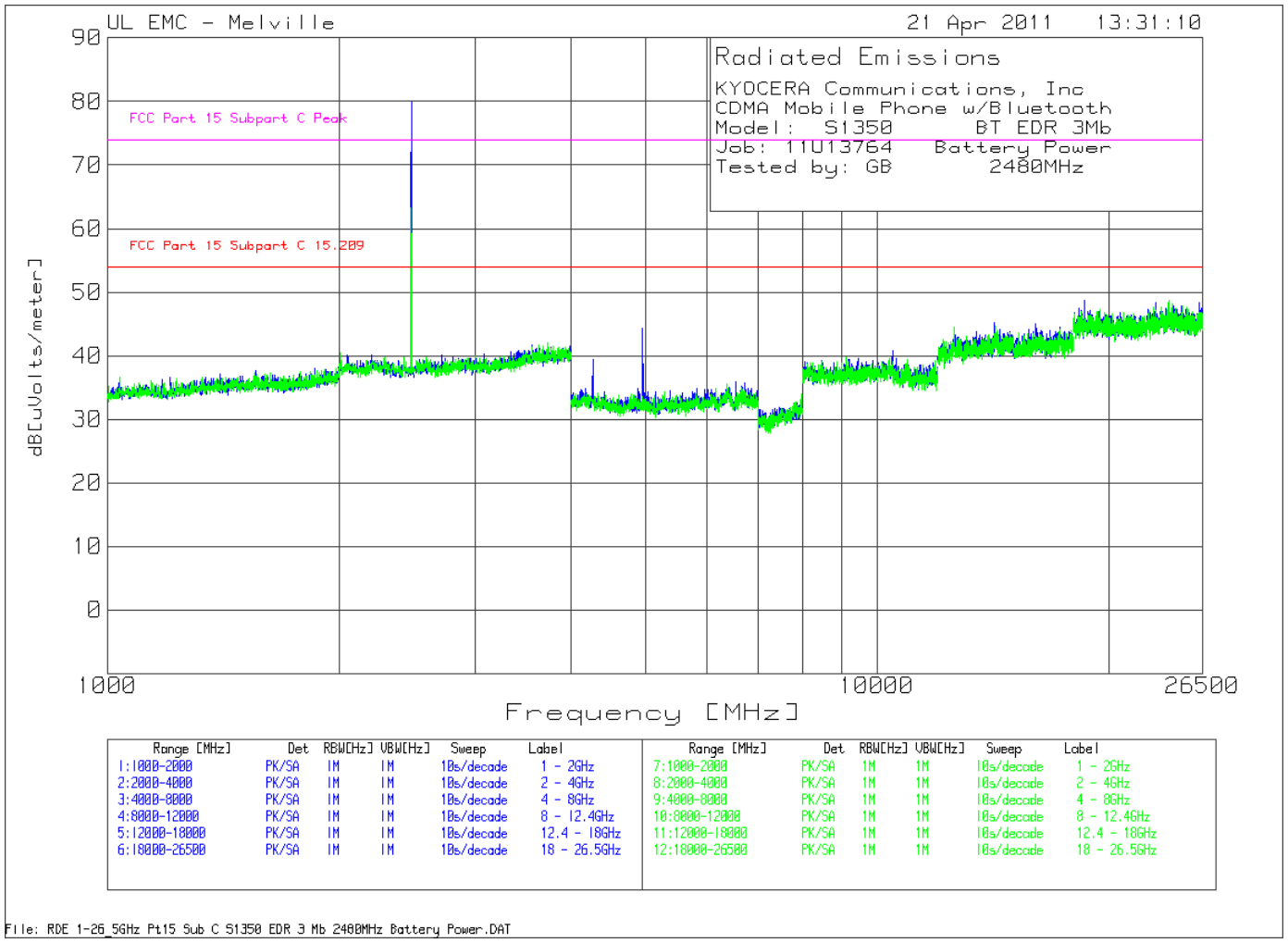


Table 28 Radiated Emissions Data Points

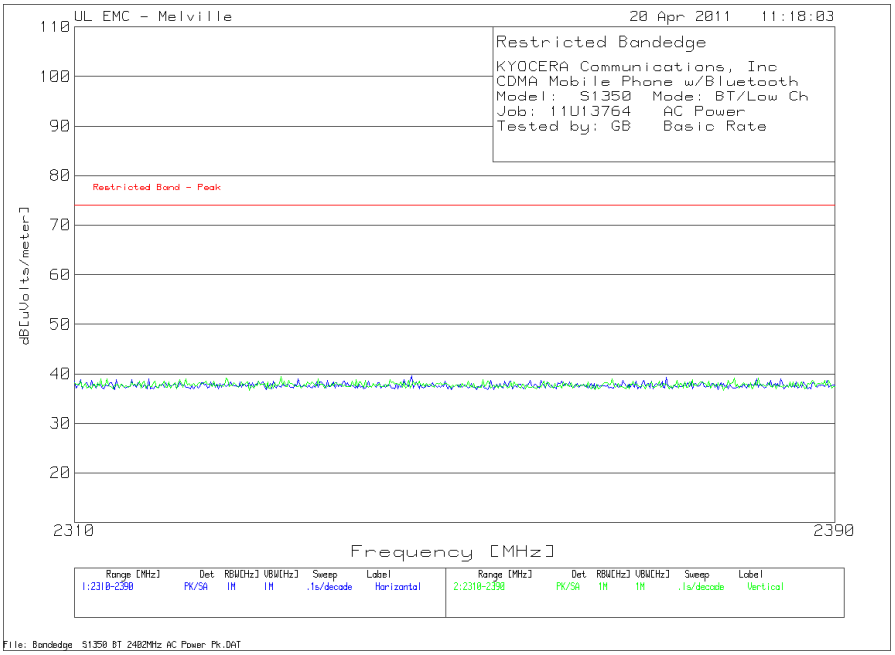
KYOCERA Communications, Inc
CDMA Mobile Phone w/Bluetooth
Model: S1350 BT EDR 3Mb
Job: 11U13764 Battery Power
Tested by: GB 2480MHz

Test	Meter	Detector	Gain/Loss	Transducer	Level	Limit 1	Margin 1[dB]	Limit 2	Margin 2[dB]	Azimuth [degs]	Height [cm]	Polarity
Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]							
4 - 8GHz 4000 - 8000MHz												
4959.6142	76.36	PK	-52.51	27.3	51.15	-	-	74	-22.85	120	328	Horz
4959.6142	51.83	Av	-52.51	27.3	26.62	54	-27.38	-	-	120	328	Horz
4 - 8GHz 4000 - 8000MHz												
4959.6543	81.07	PK	-52.51	27.4	55.96	-	-	74	-18.04	338	394	Vert
4959.6543	54.9	Av	-52.51	27.4	29.79	54	-24.21	-	-	338	394	Vert

LIMIT 1: FCC Part 15 Subpart C 15.209
LIMIT 2: FCC Part 15 Subpart C Peak

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector
RMS - RMS detection
CRMS - CISPR RMS detection

Figure 28 Radiated Emissions Band-Edge Graph – Low Channel Basic Rate AC Powered



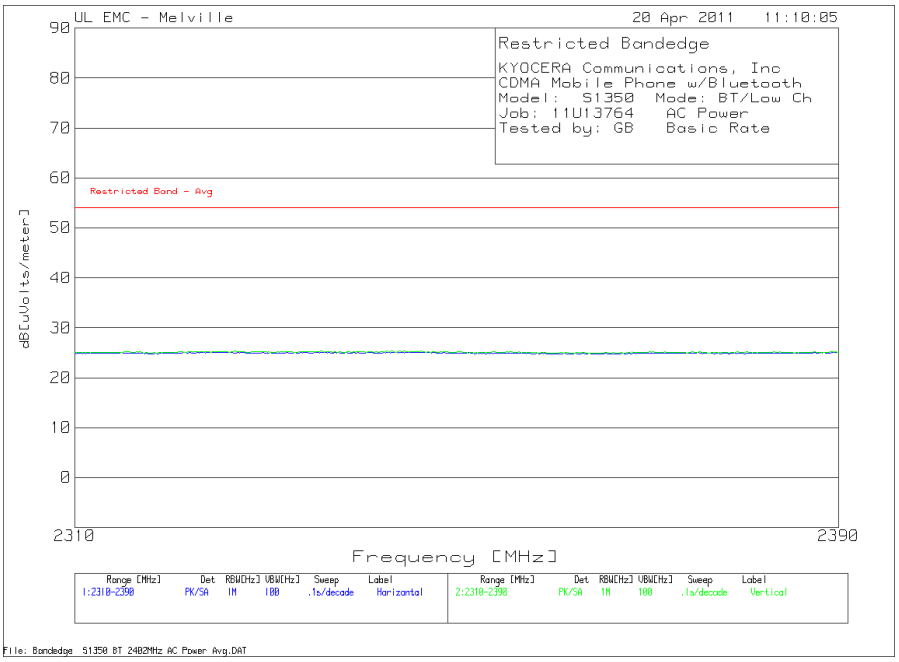


Figure 29 Radiated Emissions Band-Edge Graph – High Channel Basic Rate AC Powered

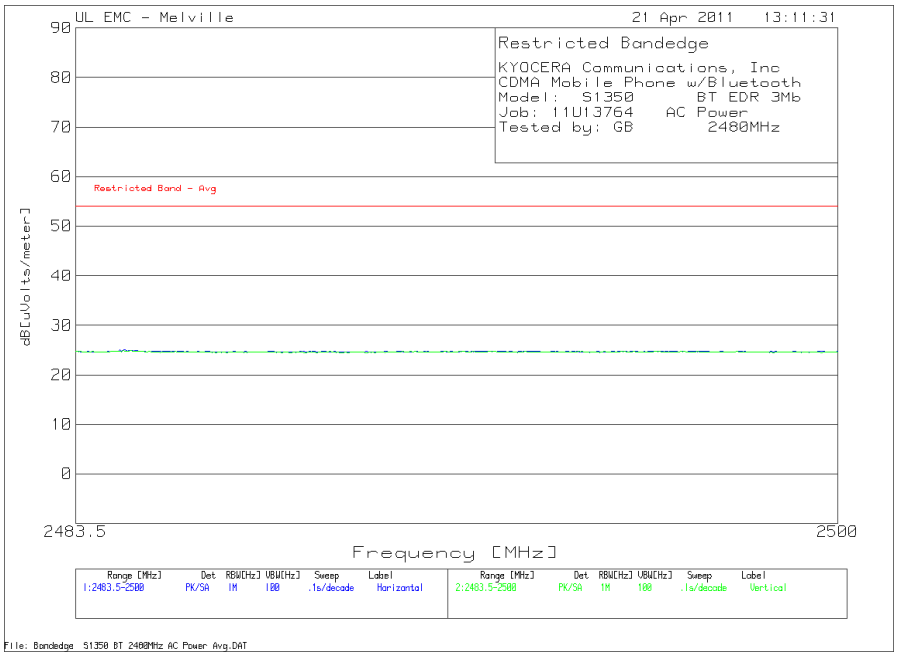


Figure 30 Radiated Emissions Band-Edge Graph – Low Channel EDR 2MB Rate AC Powered

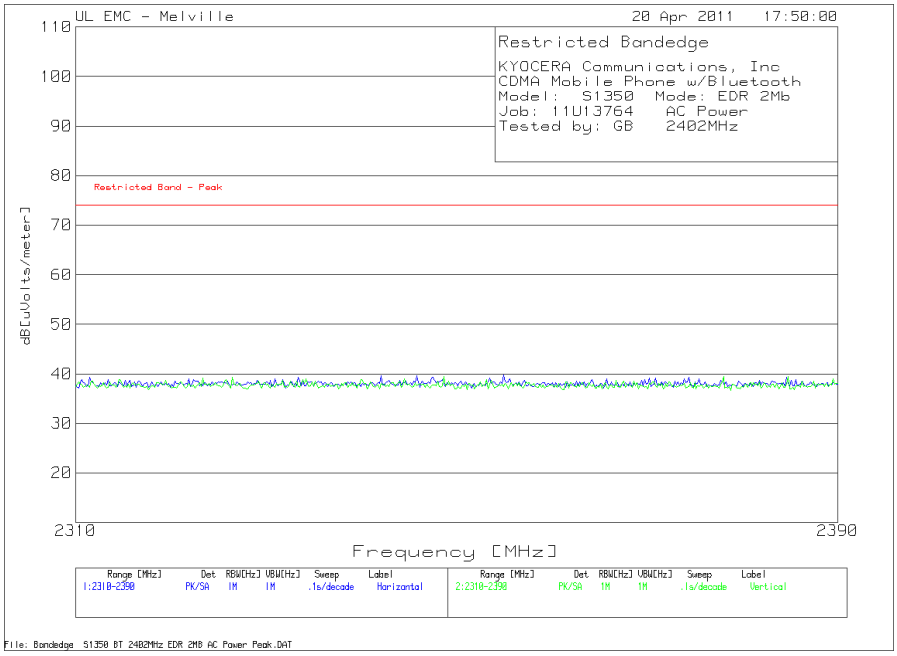
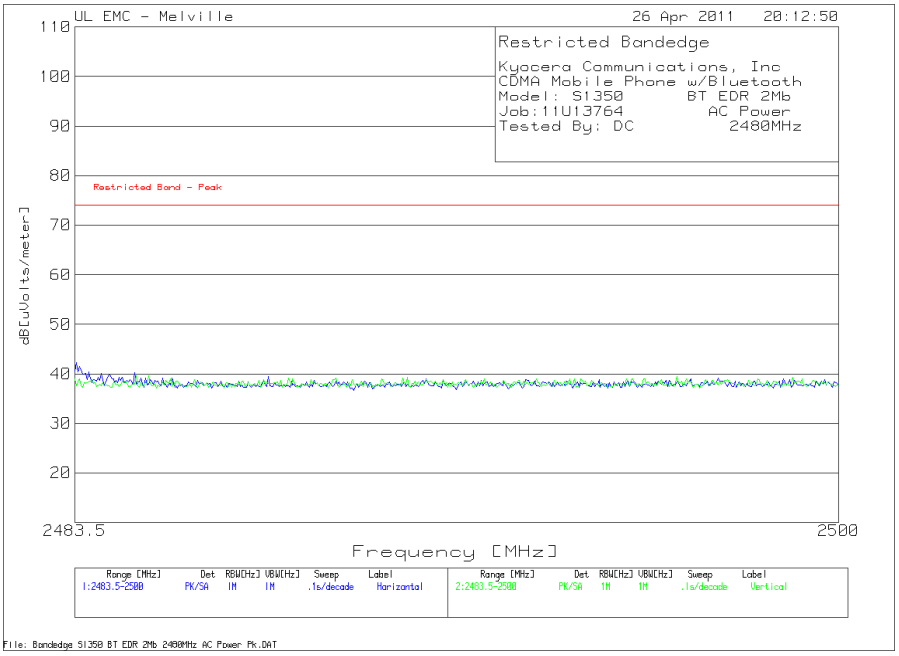


Figure 31 Radiated Emissions Band-Edge Graph – High Channel EDR 2MB Rate AC Powered



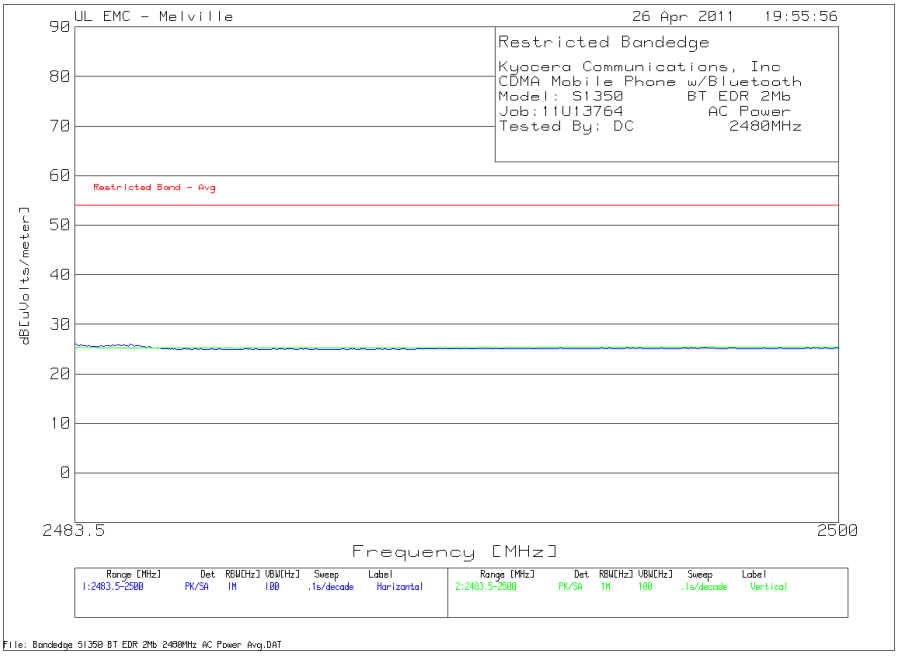


Figure 32 Radiated Emissions Band-Edge Graph – Low Channel EDR 3MB Rate AC Powered

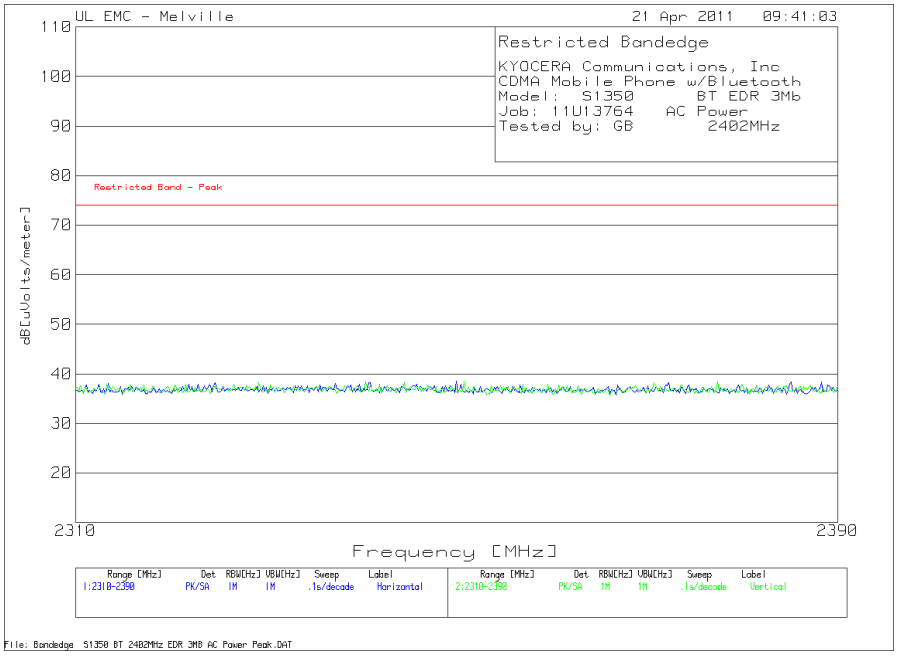
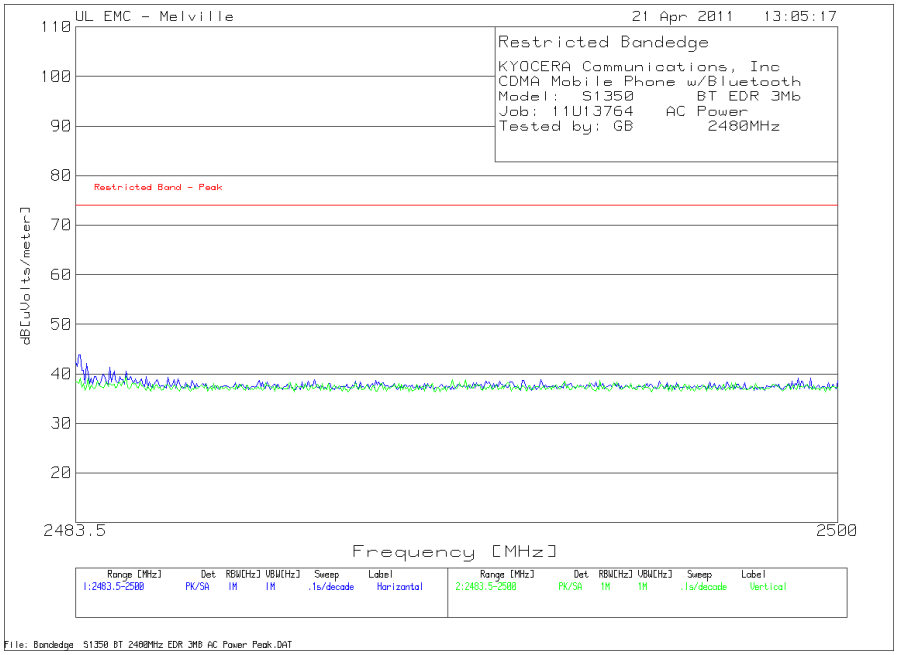


Figure 33 Radiated Emissions Band-Edge Graph – High Channel EDR 3MB Rate AC Powered



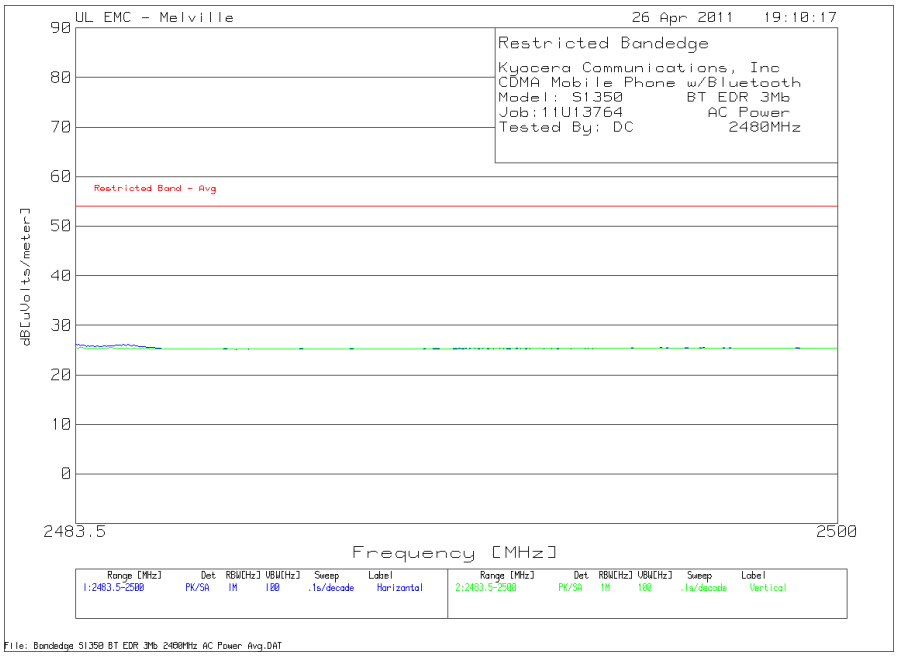
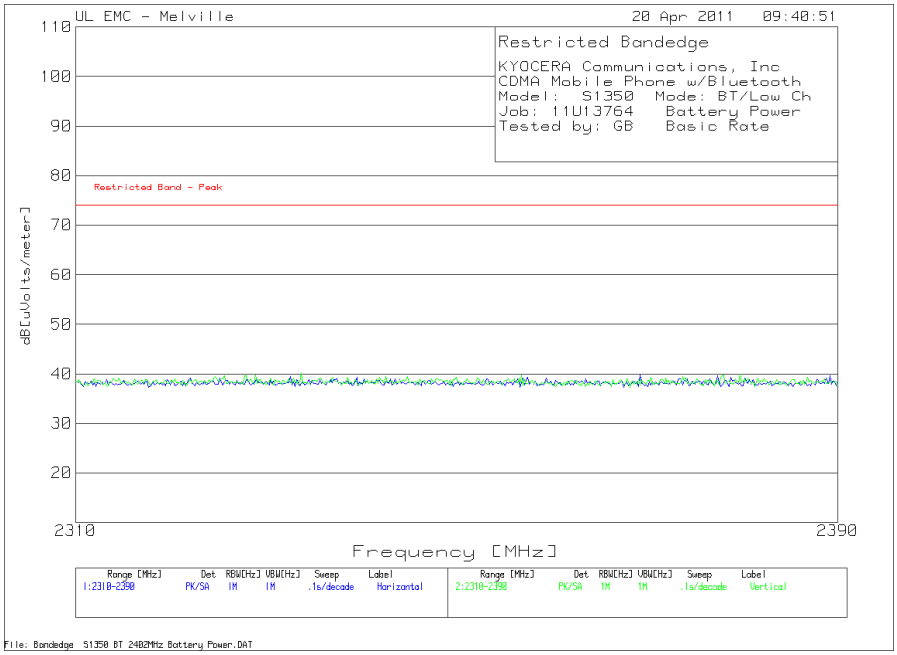


Figure 34 Radiated Emissions Band-Edge Graph – Low Channel Basic Rate Battery Powered



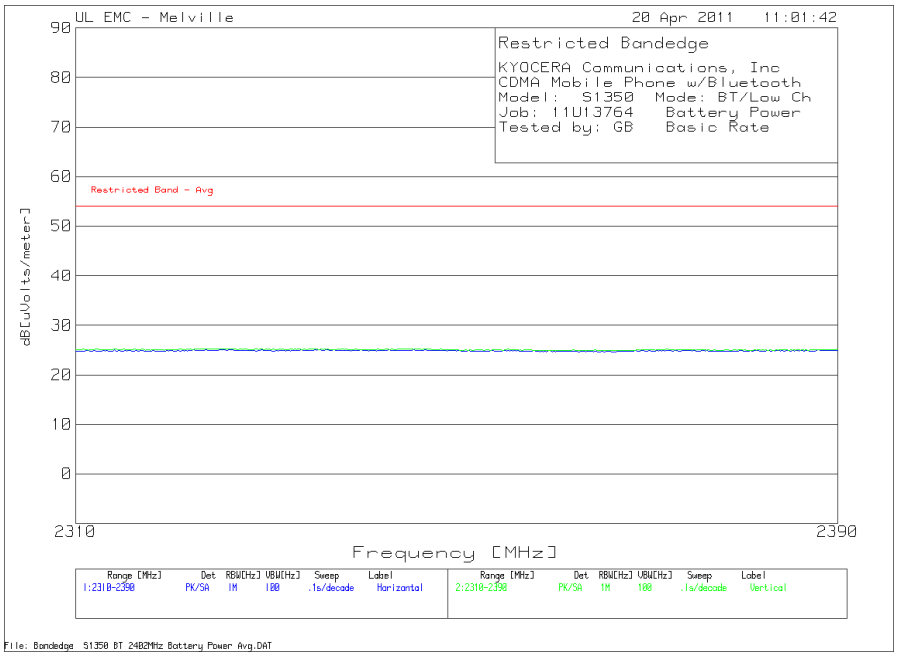


Figure 35 Radiated Emissions Band-Edge Graph – High Channel Basic Rate Battery Powered

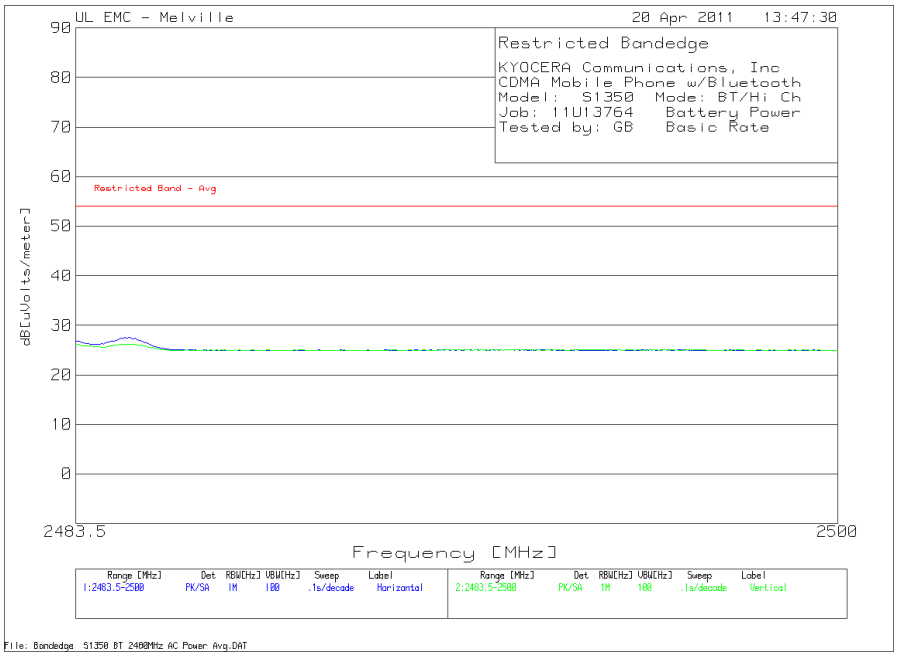
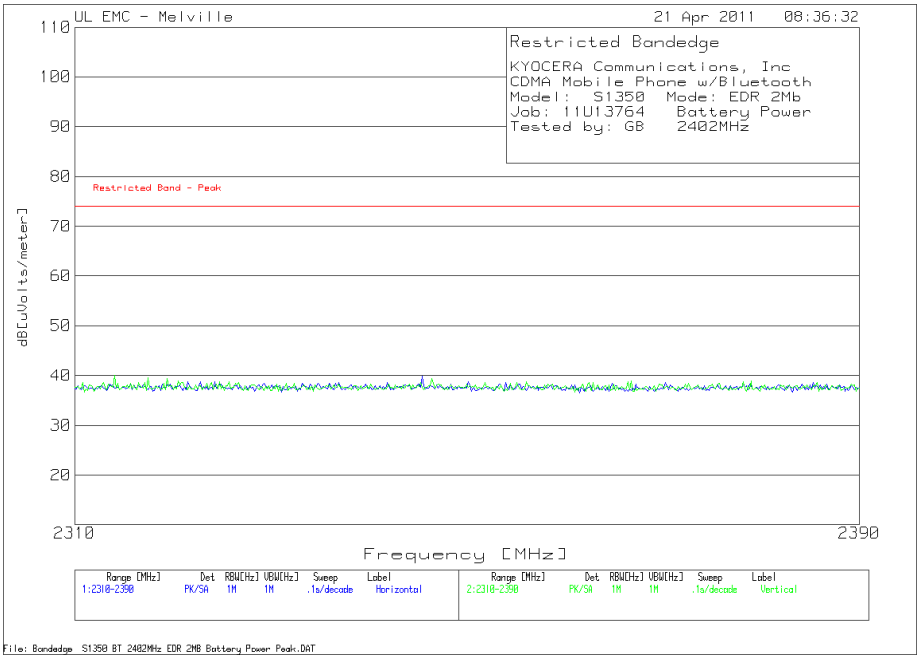


Figure 36 Radiated Emissions Band-Edge Graph – Low Channel EDR 2MB Rate Battery Powered



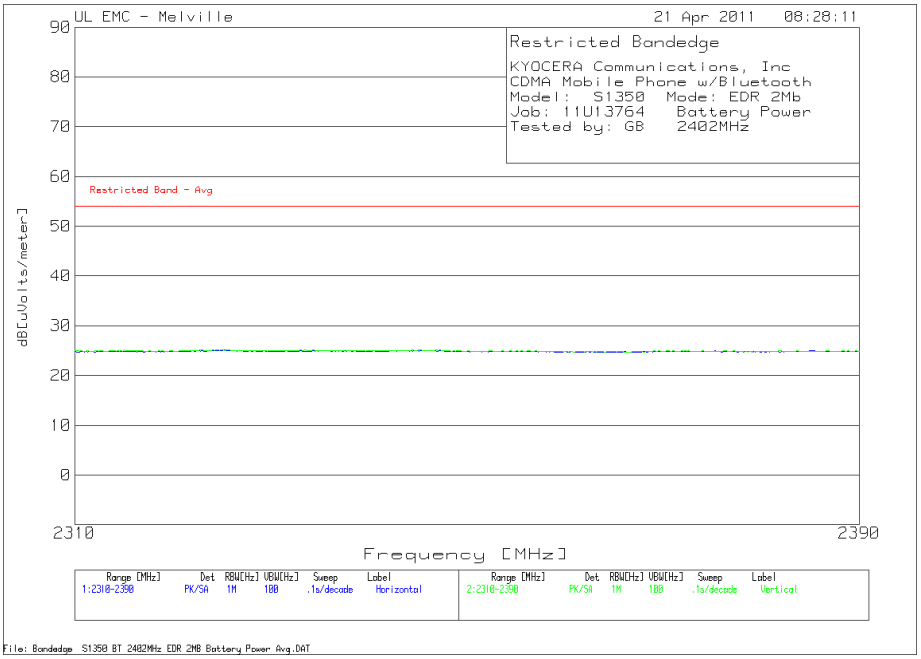


Figure 37 Radiated Emissions Band-Edge Graph – High Channel EDR 2MB Rate Battery Powered

Figure 38 Radiated Emissions Band-Edge Graph – Low Channel EDR 3MB Rate Battery Powered

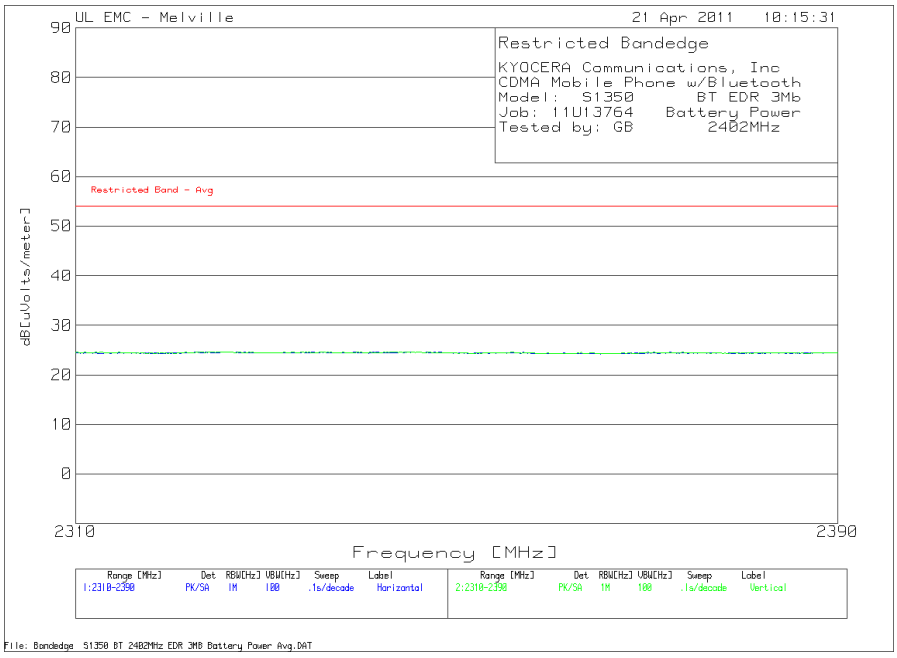
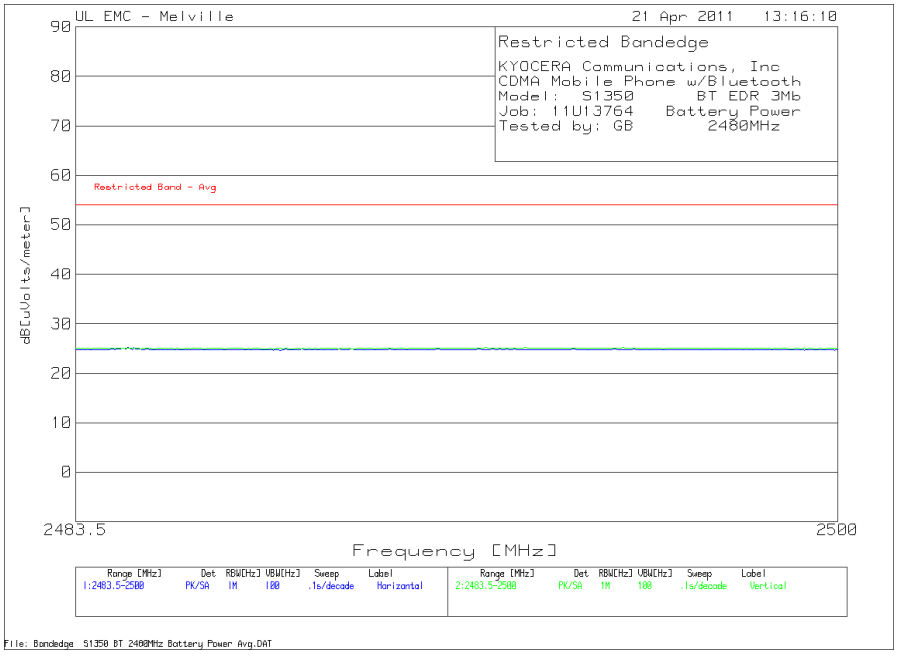


Figure 39 Radiated Emissions Band-Edge Graph – High Channel EDR 3MB Rate Battery Powered



Appendix A

Accreditations and Authorizations

NVLAP Lab code: 100255-0

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/1002550.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. 91040).

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 2181

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-797, (Conducted Emissions) C-832, C-83400, and C-81879 and (Conducted Emissions - Telecommunications Ports) T-1582 and T-1583.

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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