



**FCC 47 CFR PART 15 SUBPART C
Radiated Emissions Only**

CERTIFICATION TEST REPORT

FOR

EUT

MODEL NUMBER: RF6 PIR / LMD500

FCC ID: CFS8DLLMD500

REPORT NUMBER: 10776113

ISSUE DATE: June 18, 2015

Prepared for
Honeywell Security
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Revision History

Rev.	Issue Date	Revisions	Revised By
--	06/18/2015	Initial Issue	Dan Cieplik

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Honeywell Security
2 Corporate Center Dr, PO Box 9040, Suite 100
Melville, NY 11747 USA

EUT DESCRIPTION: The EUT is a wireless PIR security sensor

MODEL: RF6 PIR / 573F – LMD500

SERIAL NUMBER: N/A

DATE TESTED: May 30, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C*	Pass*

*Radiated Emissions Only

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL LLC based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For

UL LLC By: Michael Ferrer



Tested By: Dan Cieplik



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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.4-2009.

Testing Deviation – EUT was tested 1.5m height for above 1Ghz Radiated Emissions in accordance with TCB Conference Call Dec 2014.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 333 Pfingsten Road, Northbrook, IL 60062 USA.

UL NBK is accredited by NVLAP, Laboratory Code 100414-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/Standards/scopes/1004140.htm>

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

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)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test	Range	Equipment	Uncertainty k=2
Radiated Emissions	30-200MHz	Bicon 10m Horz	4.27dB
Radiated Emissions	30-200MHz	Bicon 10m Vert	4.28dB
Radiated Emissions	200-1000MHz	LogP 10m Horz	3.33dB
Radiated Emissions	200-1000MHz	LogP 10m Vert	3.39dB
Radiated Emissions	1-6GHz	Horn	5.02dB
Radiated Emissions	6-18GHz	Horn	5.34dB
Radiated Emissions	18-26GHz	Horn	6.60dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a 2.4Ghz transceiver.

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a fixed metal internal antenna

5.3. WORST-CASE CONFIGURATION AND MODE

Radiated emission were performed with the EUT set to transmit with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that Z orientation was worst-case orientation for both antennas; therefore, all final radiated testing was performed with the EUT in Z orientation.

Preliminary tests on low, mid and high channels was conducted. For Antenna 1 high channel produced the worst case emissions and for Antenna 2 low channel produced the worst case emissions therefore worst case data is reported for high channel on antenna 1 and low channel on antenna 2.

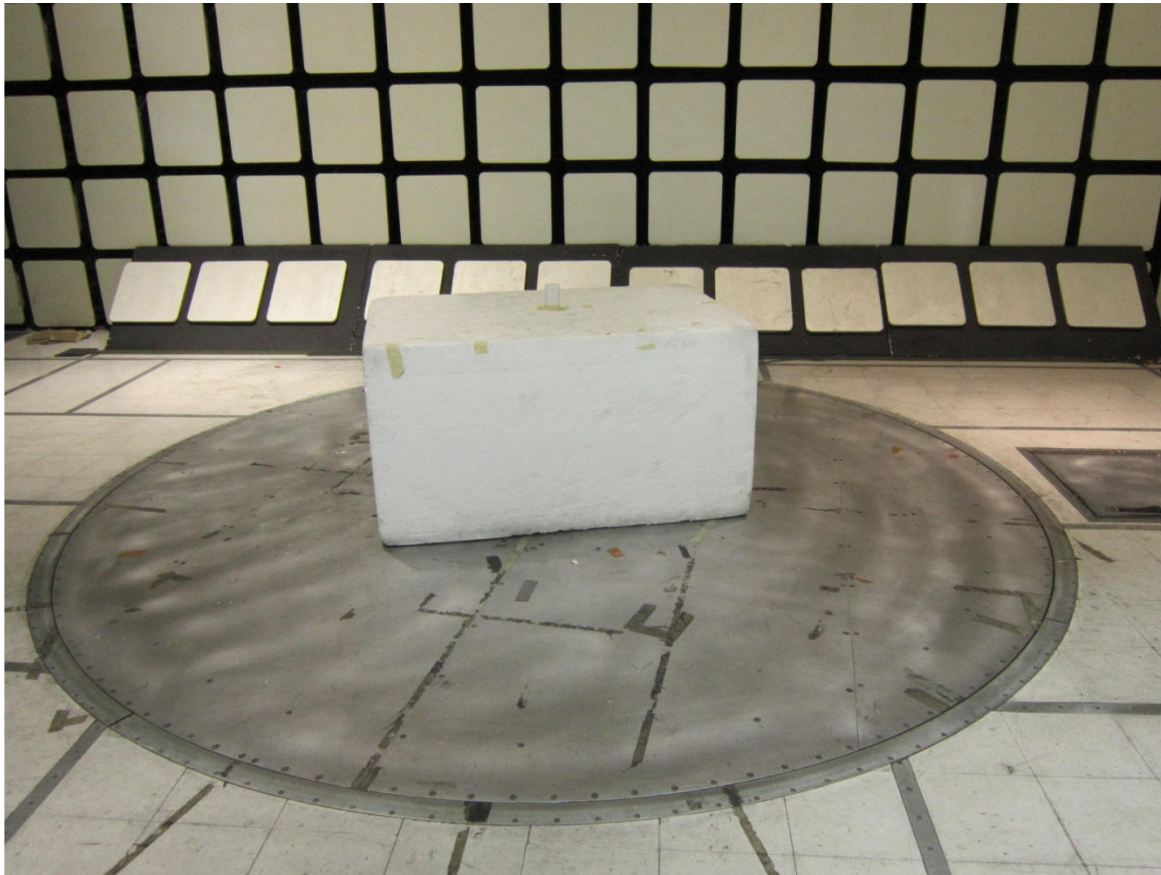
5.1. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT - None

TEST SETUP

The EUT was transmitting at a 100% duty cycle.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List					
Description	Manufacturer	Model	T No.	Cal Date	Cal Due
Radiated Software	UL	UL EMC	Ver 9.5, July 22, 2014		
Conducted Software	UL	UL EMC	Ver 9.5, May 17 2012		
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC4328	20141830	20151231
Bicon Antenna	Electro-Metrics	EM6912A	EMC4070	20141014	20151031
Log-P Antenna	Chase	UPA6109	EMC4313	20141119	20151130
Amplified 1GHz – 10GHz System	UL w/ EMCO Horn Antenna	3117	EMC4293	N/A	N/A
EMI Test Receiver	Rohde & Schwarz	ESU	EMC4323	20141216	20151231

7. ON TIME AND DUTY CYCLE

Manufacturers Statements about the Duty Cycle Information

There is a 32MHz crystal is connected to transceiver chip. The crystal is used in PLL circuit inside the chip. You will find the delta between the carrier and humps are 32MHz above and below. Thus the humps must belong to the transceiver circuit.

The transmissions between the PIR and its access point follow a proprietary protocol defined by Honeywell which is hard-coded into the transceiver IC and which is not accessible to the installer or end user. Analysis of the timing of packets transmitted in 100mS for worst case scenario shows 6.976mS aggregate transmit 'on' time in any 100mS interval.

The manufacturers stated duty cycle of 6.976% = -23.13db relaxation

8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

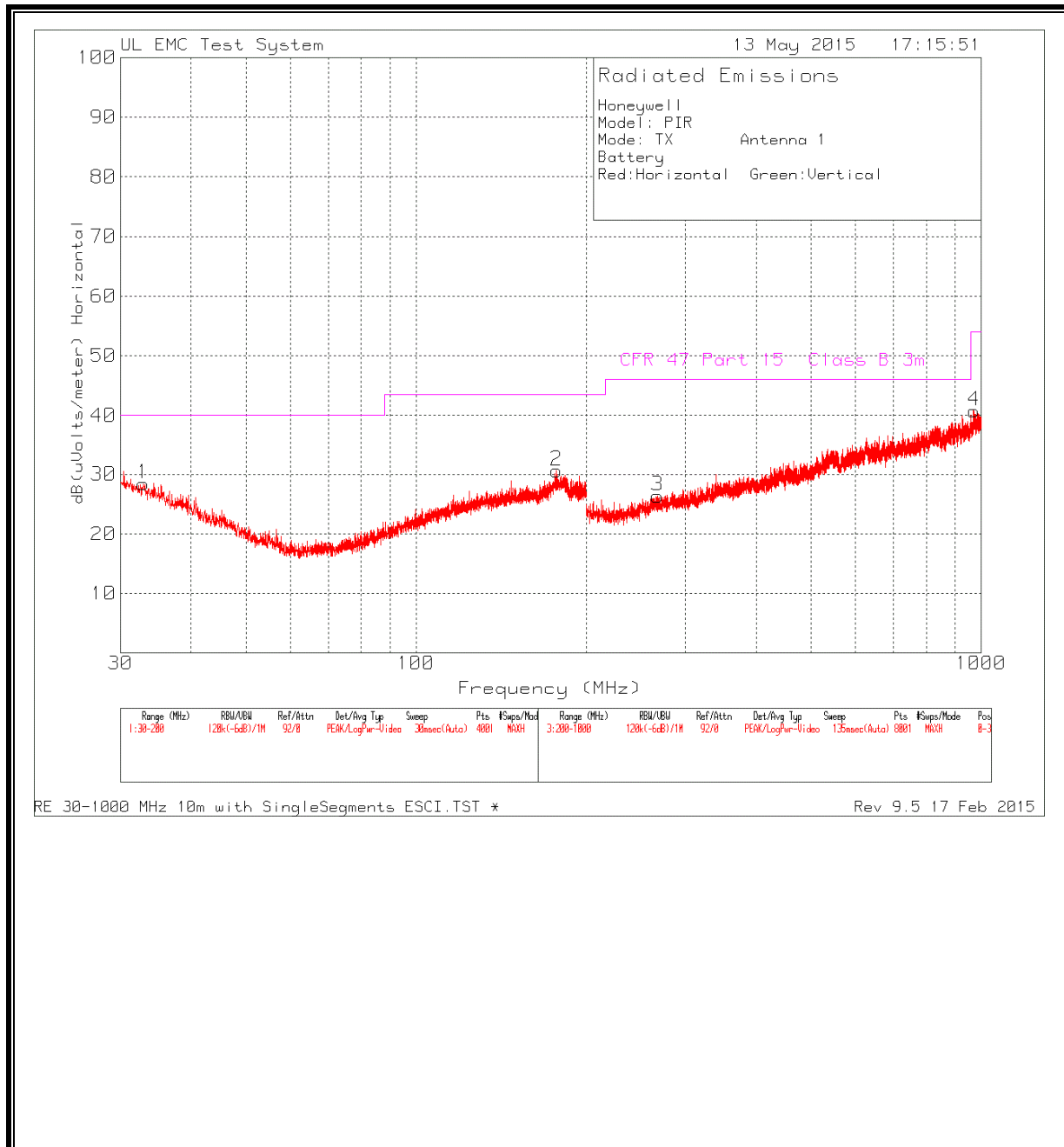
LIMITS

FCC §15.247, 15.209

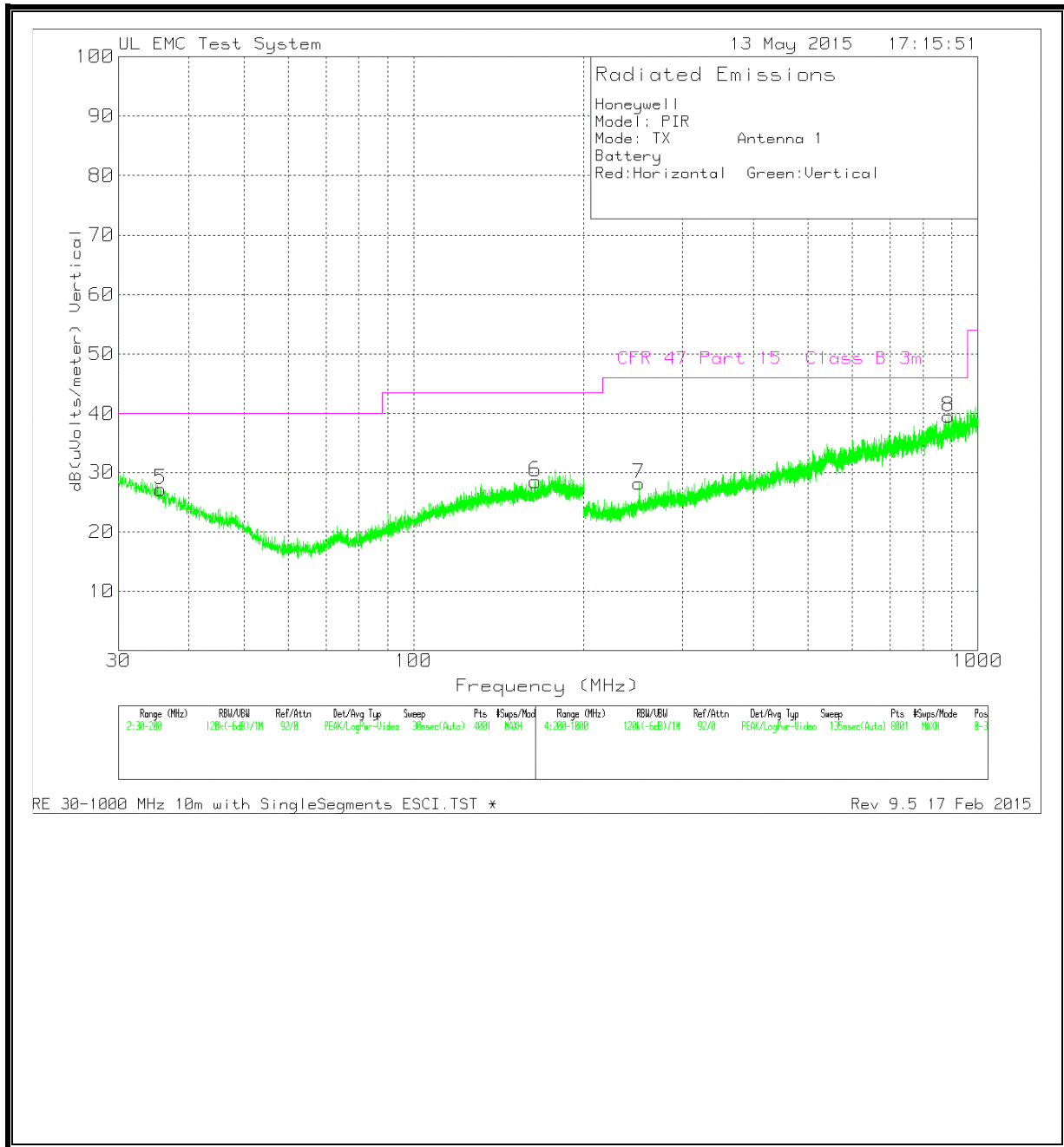
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

9. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL) Ant 1

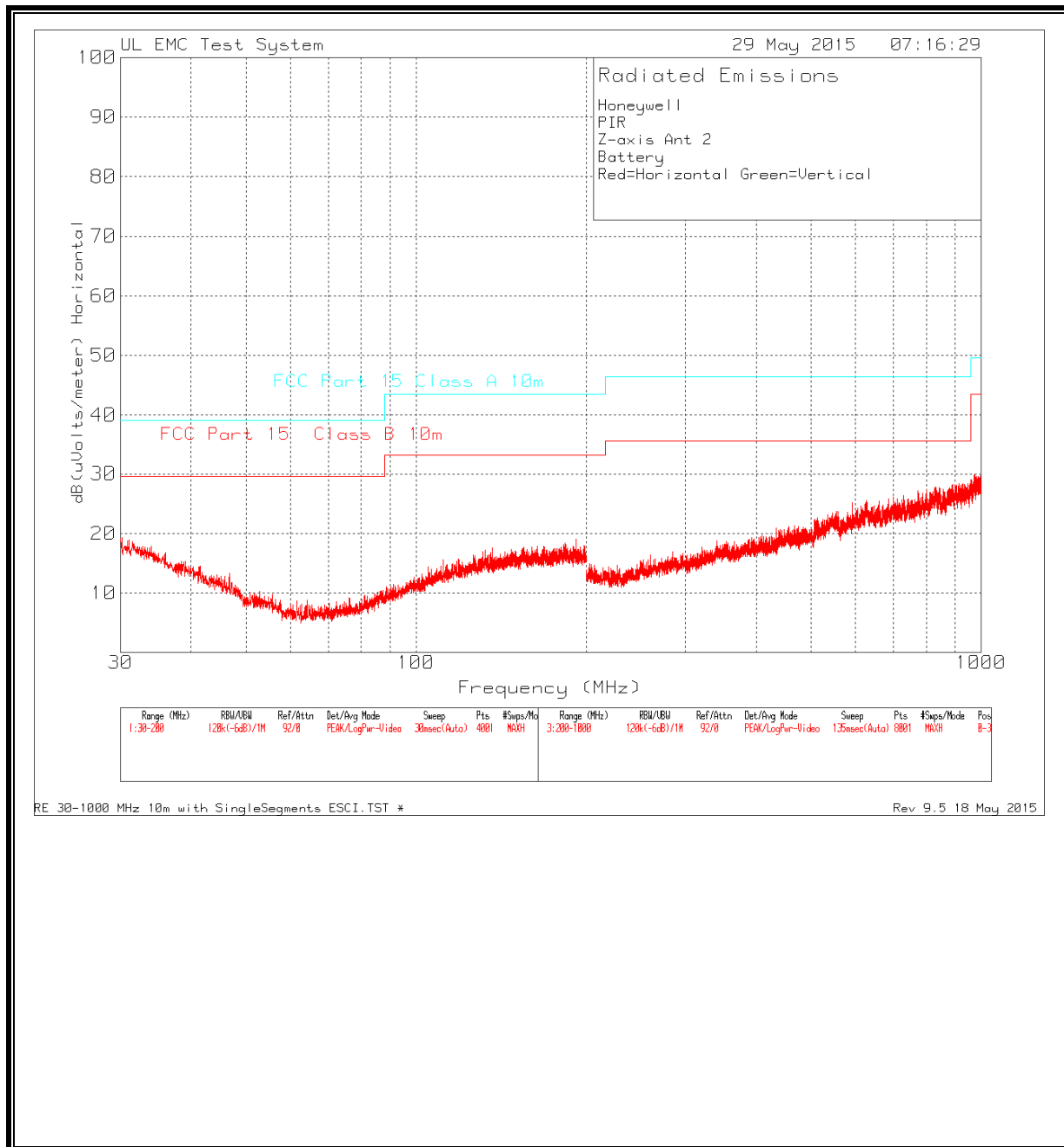


SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL) Ant 1

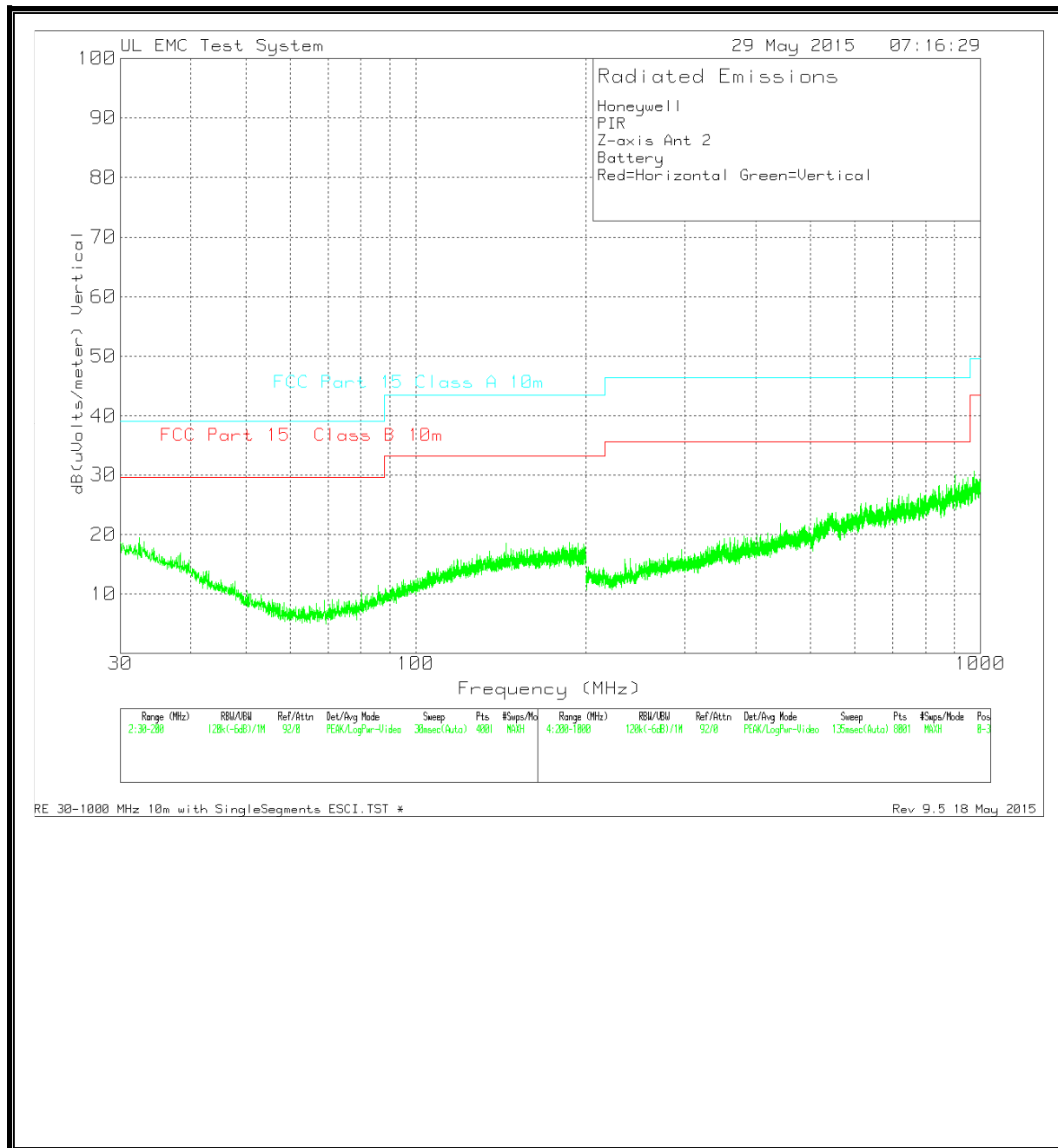


Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Ant Factors (db/m)	Path Factors (db)	10m to 3m Limit	Corrected Reading dB (uVolts/meter)	CFR 47 Part 15 Class B 3m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	32.9325	31.3	Pk	16.8	-30.2	10.5	28.4	40	-11.6	0-360	400	H
2	177.3475	33.76	Pk	15.7	-29.4	10.5	30.56	43.52	-12.96	0-360	250	H
5	35.61	30.92	Pk	15.8	-30.1	10.5	27.12	40	-12.88	0-360	249	V
6	164.555	31.93	Pk	15.5	-29.5	10.5	28.43	43.52	-15.09	0-360	400	V
3	267.4	31.83	Pk	12.6	-28.6	10.5	26.33	46.02	-19.69	0-360	100	H
4	972.7	31.14	Pk	24.1	-25	10.5	40.74	53.97	-13.23	0-360	100	H
7	250.8	34.33	Pk	12	-28.7	10.5	28.13	46.02	-17.89	0-360	299	V
8	887.1	32.26	Pk	22.8	-26.1	10.5	39.46	46.02	-6.56	0-360	199	V
Pk - Peak detector												

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL) Ant 2



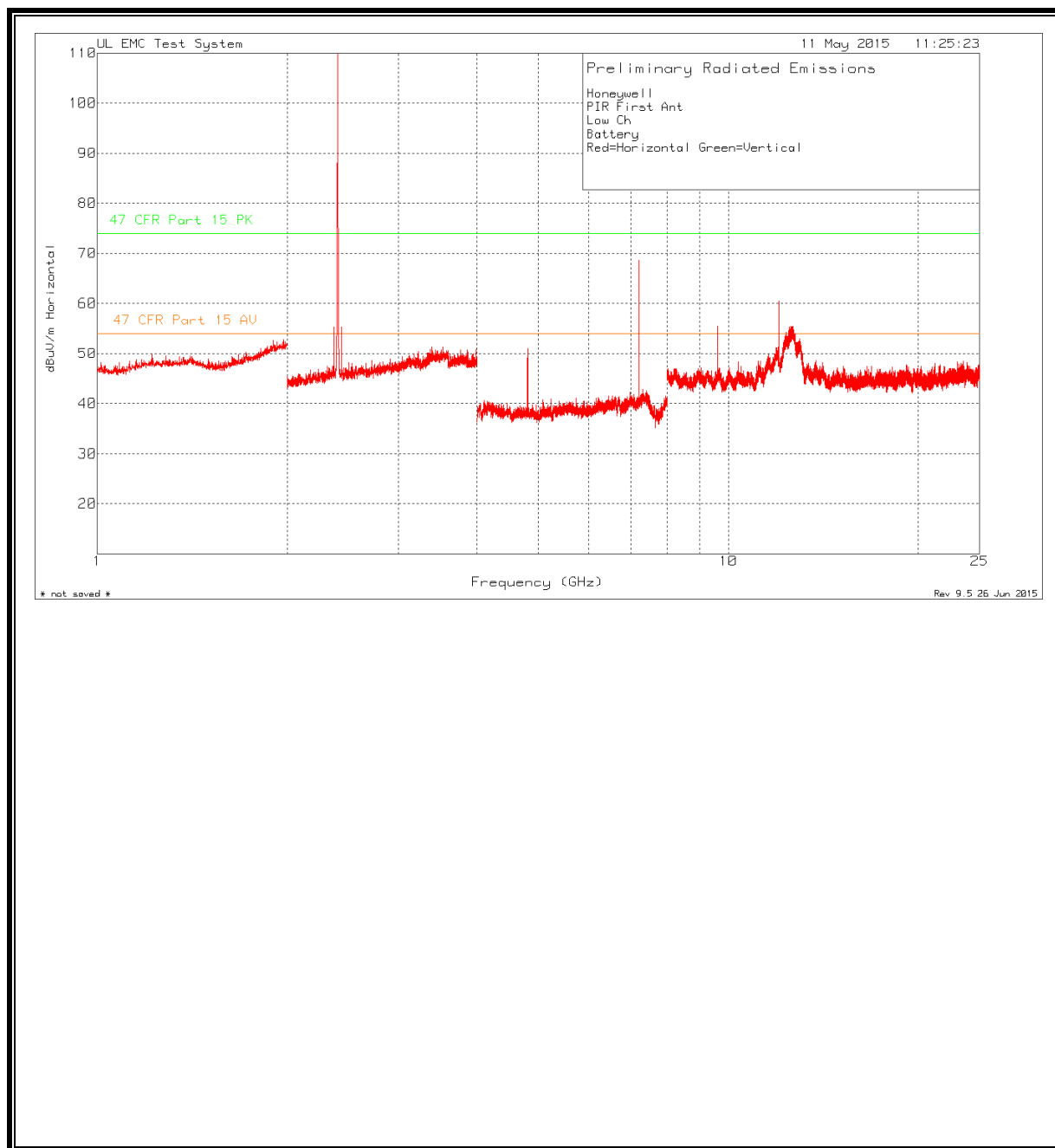
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL) Ant 2



Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	Ant Factors (db/m)	Path Factors (db)	Corrected Reading dB (uVolts / meter)	FCC Part 15 Class B 10m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	32.3375	32.31	Pk	17.3	-30.2	19.41	29.55	-10.14	0-360	99	V
2	144.4525	33.25	Pk	15	-29.8	18.45	33.07	-14.62	0-360	248	V
3	558.1	31.51	Pk	19	-26.8	23.71	35.57	-11.86	0-360	300	H
4	591.6	32.67	Pk	19.5	-27	25.17	35.57	-10.4	0-360	300	H
5	545.8	30.78	Pk	19.9	-27.1	23.58	35.57	-11.99	0-360	299	V
6	975.8	31.95	Pk	24.2	-25.5	30.65	43.52	-12.87	0-360	99	V
PK - Peak detector											

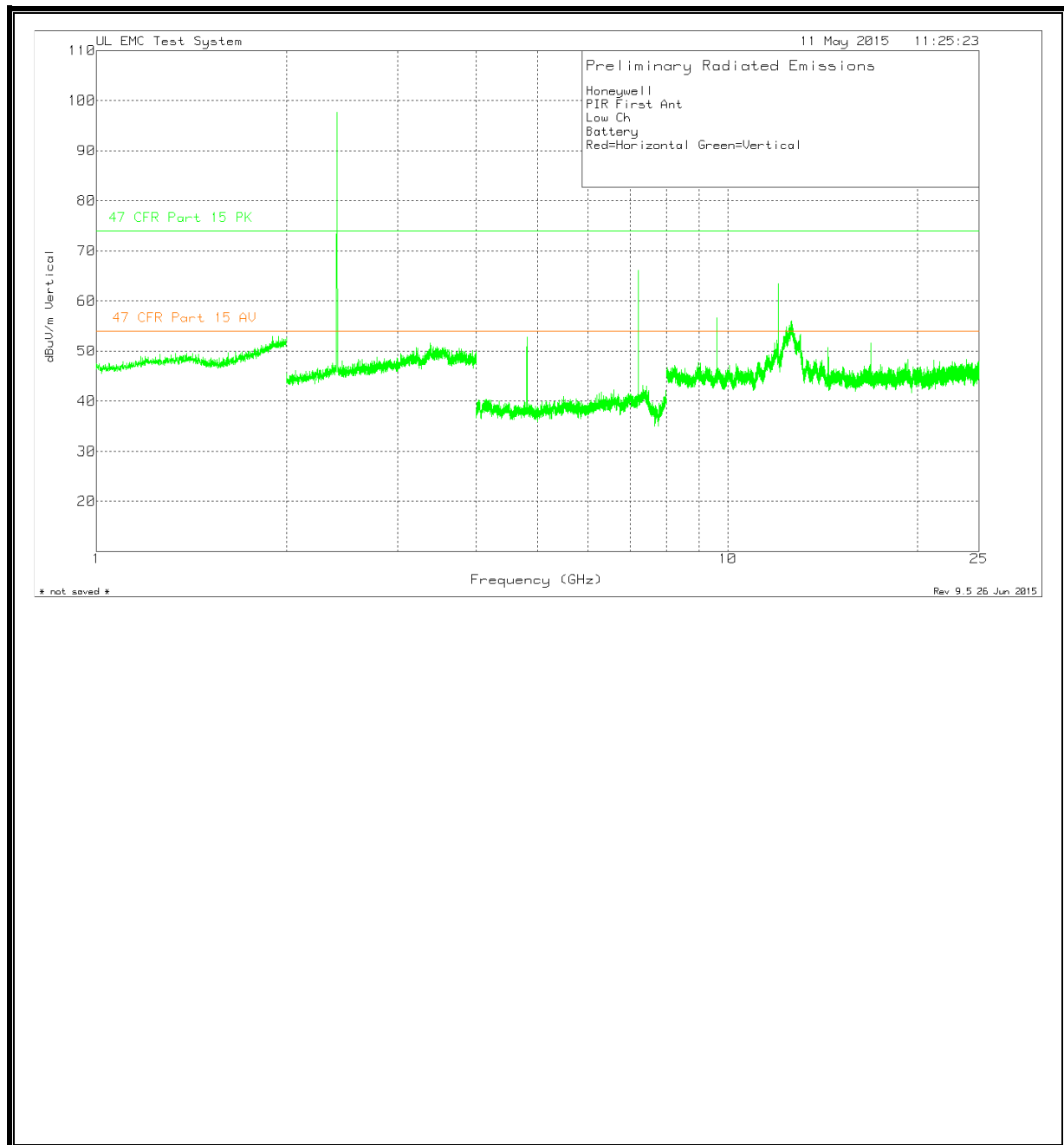
10. Radiated Emissions Above 1Ghz

Above 1Ghz (WORST-CASE CONFIGURATION, Horizontal) Low Ch Ant 1



*See section 12 for ambient scan and measurement data.

Above 1Ghz (WORST-CASE CONFIGURATION, VERTICAL) Low Ch Ant 1

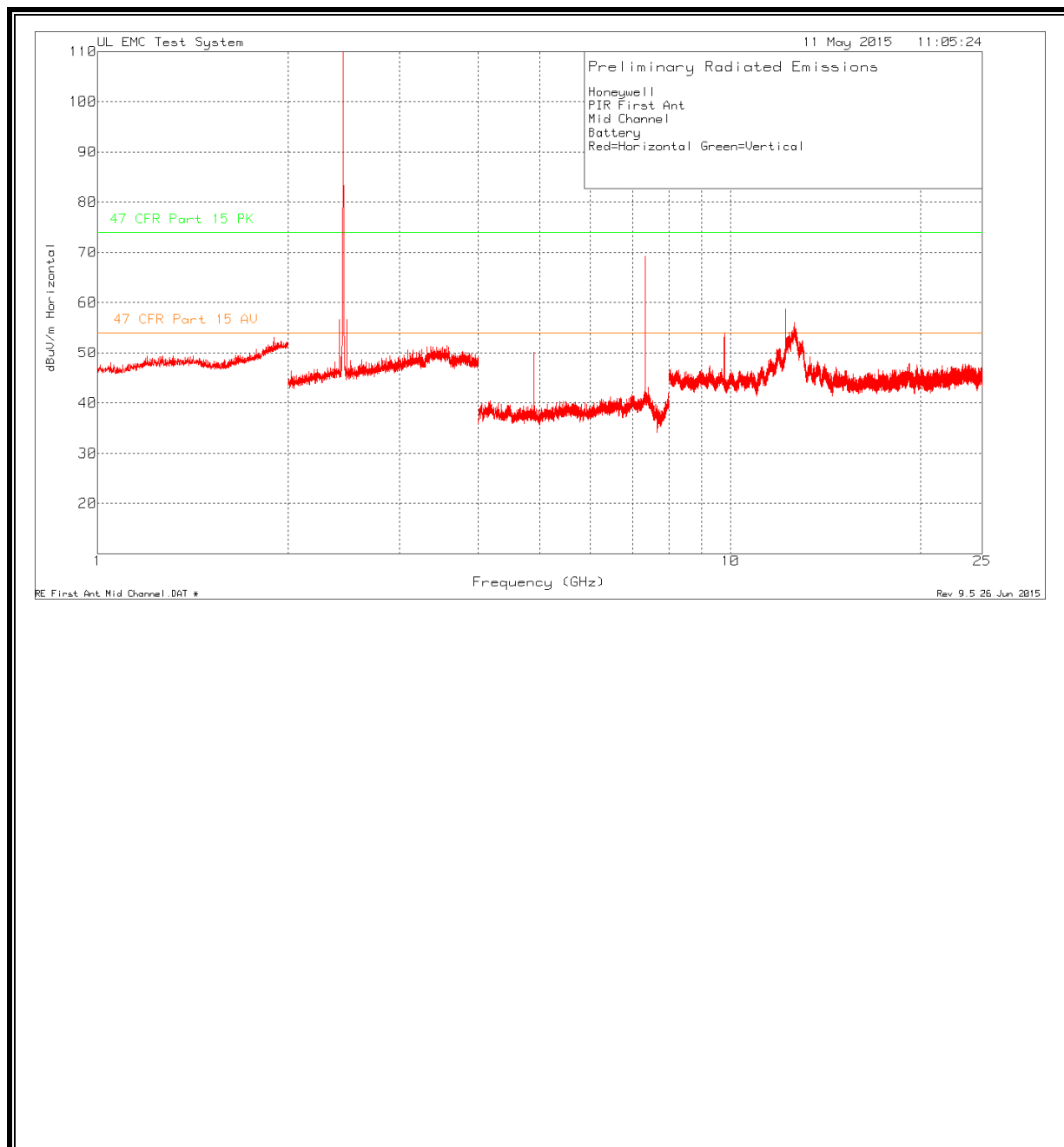


*See section 12 for ambient scan and measurement data.

Above 1Ghz (WORST-CASE CONFIGURATION, DATA) Low Ch Ant 1

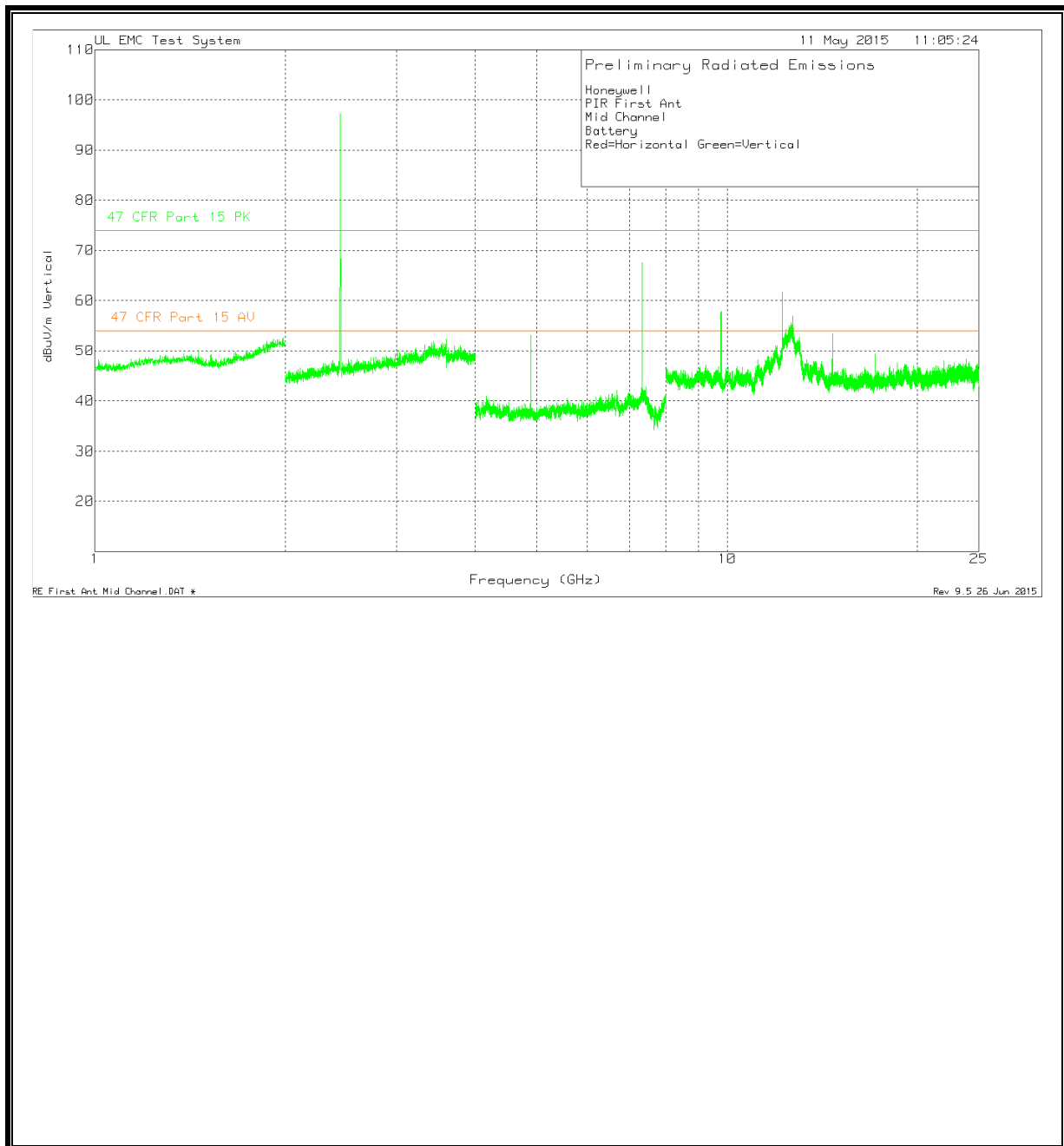
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Ant Factor (db/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Duty Cycle Correction	47 CFR Part 15 AV	Margin (dB)	47 CFR Part 15 PK	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
7.214	85.54	Pk	29.8	-46.73	45.48	-23.13	54	-31.65	74	-28.52	0-360	149	H
9.618	67.41	Pk	36.4	-48.38	32.3	-23.13	54	-44.83	74	-41.7	0-360	150	H
12.022	61.98	Pk	39.4	-40.91	37.34	-23.13	54	-39.79	74	-36.66	0-360	100	H
7.214	83.08	Pk	29.8	-46.73	43.02	-23.13	54	-34.11	74	-30.98	0-360	150	V
9.622	68.52	Pk	36.4	-48.3	33.49	-23.13	54	-43.64	74	-40.51	0-360	150	V
12.027	65.09	Pk	39.4	-41.06	40.3	-23.13	54	-36.83	74	-33.7	0-360	100	V
PK-Peak Detector													

Above 1Ghz (WORST-CASE CONFIGURATION, Horizontal) Mid Ch Ant 1



*See section 12 for ambient scan and measurement data.

Above 1Ghz (WORST-CASE CONFIGURATION, VERTICAL) Mid Ch Ant 1

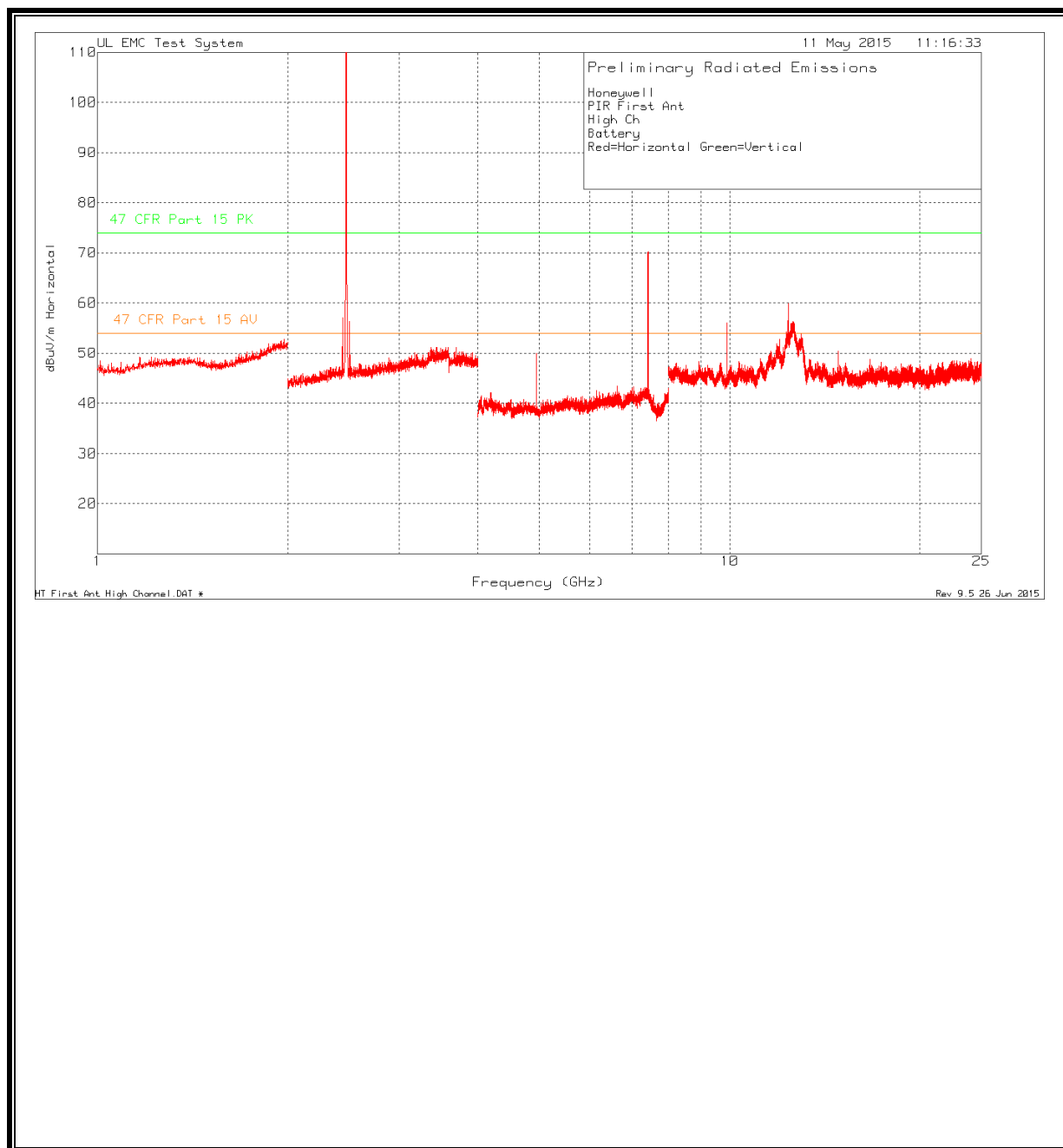


*See section 12 for ambient scan and measurement data.

Above 1Ghz (WORST-CASE CONFIGURATION, DATA) Mid Ch Ant 1

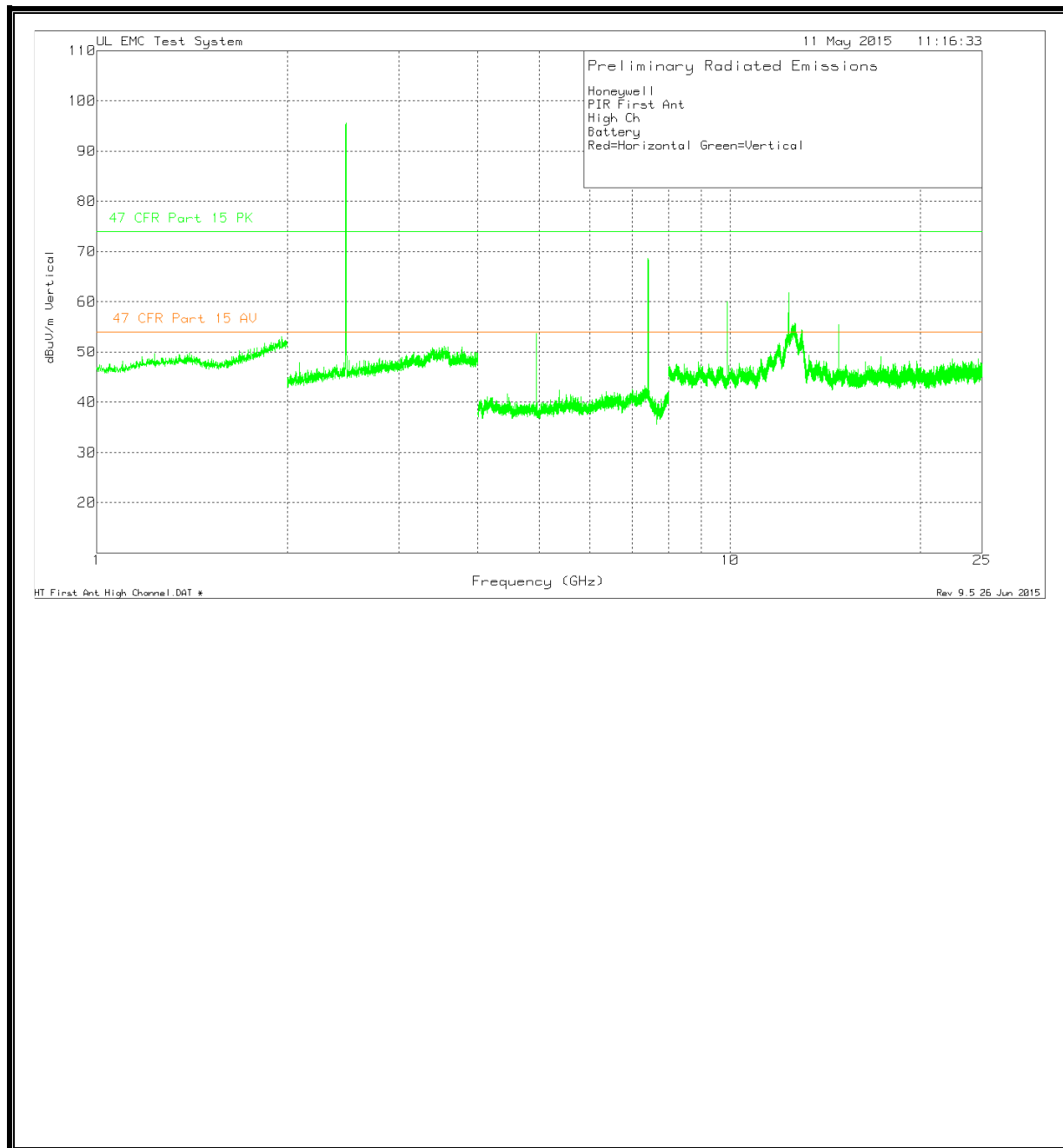
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Ant Factor (db/m)	Path Factor (db)	Corrected Reading dBuV/m	Duty Cycle Correction	47 CFR Part 15 AV	Margin (dB)	47 CFR Part 15 PK	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
4.891	72.82	Pk	27.7	-50.42	50.1	-23.13	54	-27.03	74	-23.9	0-360	149	H
7.337	84.47	Pk	30.7	-45.9	69.27	-23.13	54	-7.86	74	-4.73	0-360	149	H
9.782	66.66	Pk	36.4	-49.29	53.77	-23.13	54	-23.36	74	-20.23	0-360	100	H
12.227	58.31	Pk	39.4	-38.95	58.76	-23.13	54	-18.37	74	-15.24	0-360	150	H
4.889	75.77	Pk	27.7	-50.42	53.05	-23.13	54	-24.08	74	-20.95	0-360	150	V
7.337	82.84	Pk	30.7	-45.9	67.64	-23.13	54	-9.49	74	-6.36	0-360	150	V
9.782	70.76	Pk	36.4	-49.29	57.87	-23.13	54	-19.26	74	-16.13	0-360	100	V
12.222	61.6	Pk	39.4	-39.3	61.7	-23.13	54	-15.43	74	-12.3	0-360	150	V
14.673	54.13	Pk	39.8	-40.59	53.34	-23.13	54	-23.79	74	-20.66	0-360	150	V
17.119	49.54	Pk	40.3	-40.43	49.41	-23.13	54	-27.72	74	-24.59	0-360	150	V
PK- Peak Detectors													

Above 1Ghz (WORST-CASE CONFIGURATION, Horizontal) High Ch Ant 1



*See section 12 for ambient scan and measurement data.

Above 1Ghz (WORST-CASE CONFIGURATION, VERTICAL) High Ch Ant 1

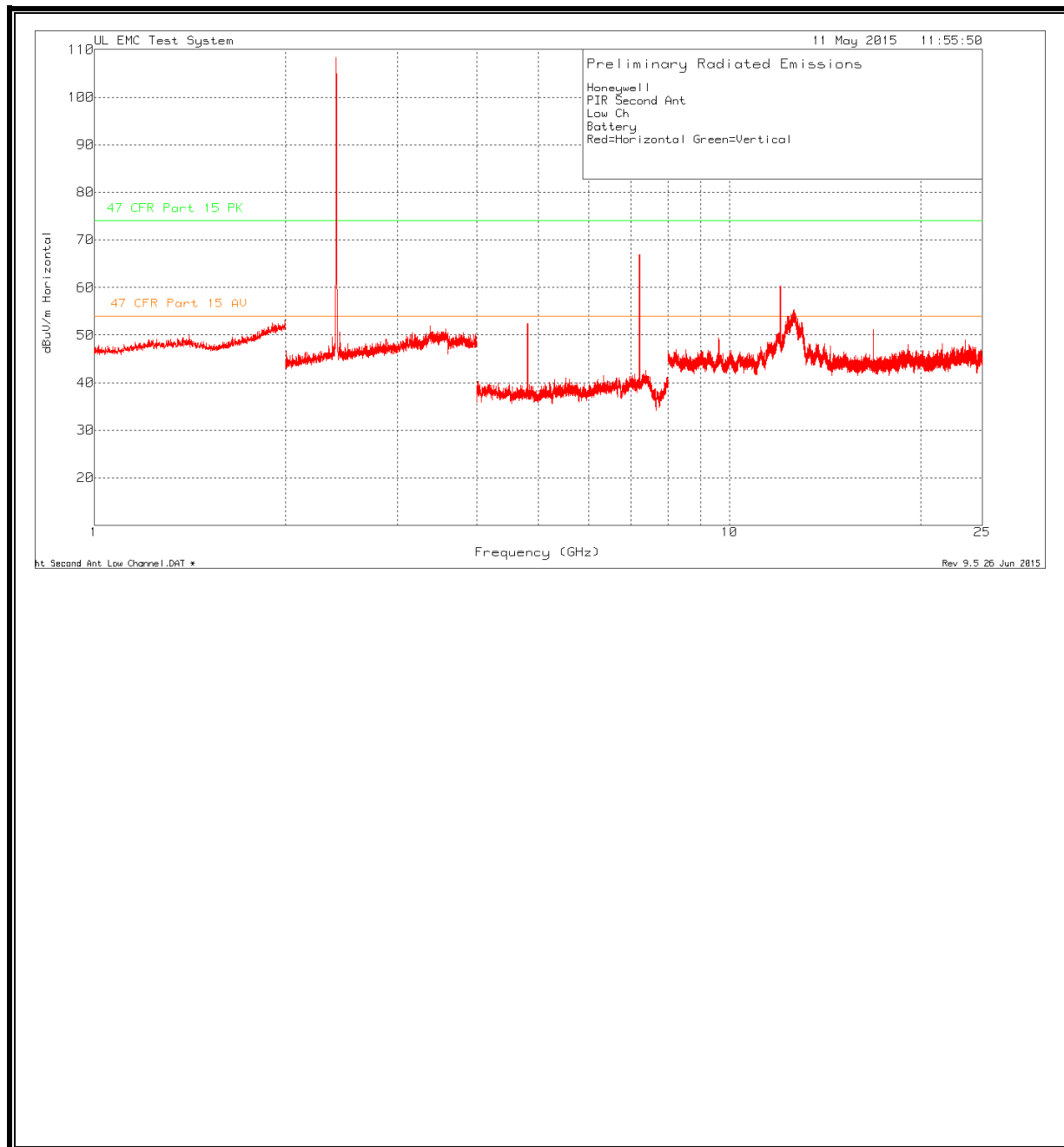


*See section 12 for ambient scan and measurement data.

Above 1Ghz (WORST-CASE CONFIGURATION, DATA) High Ch Ant 1

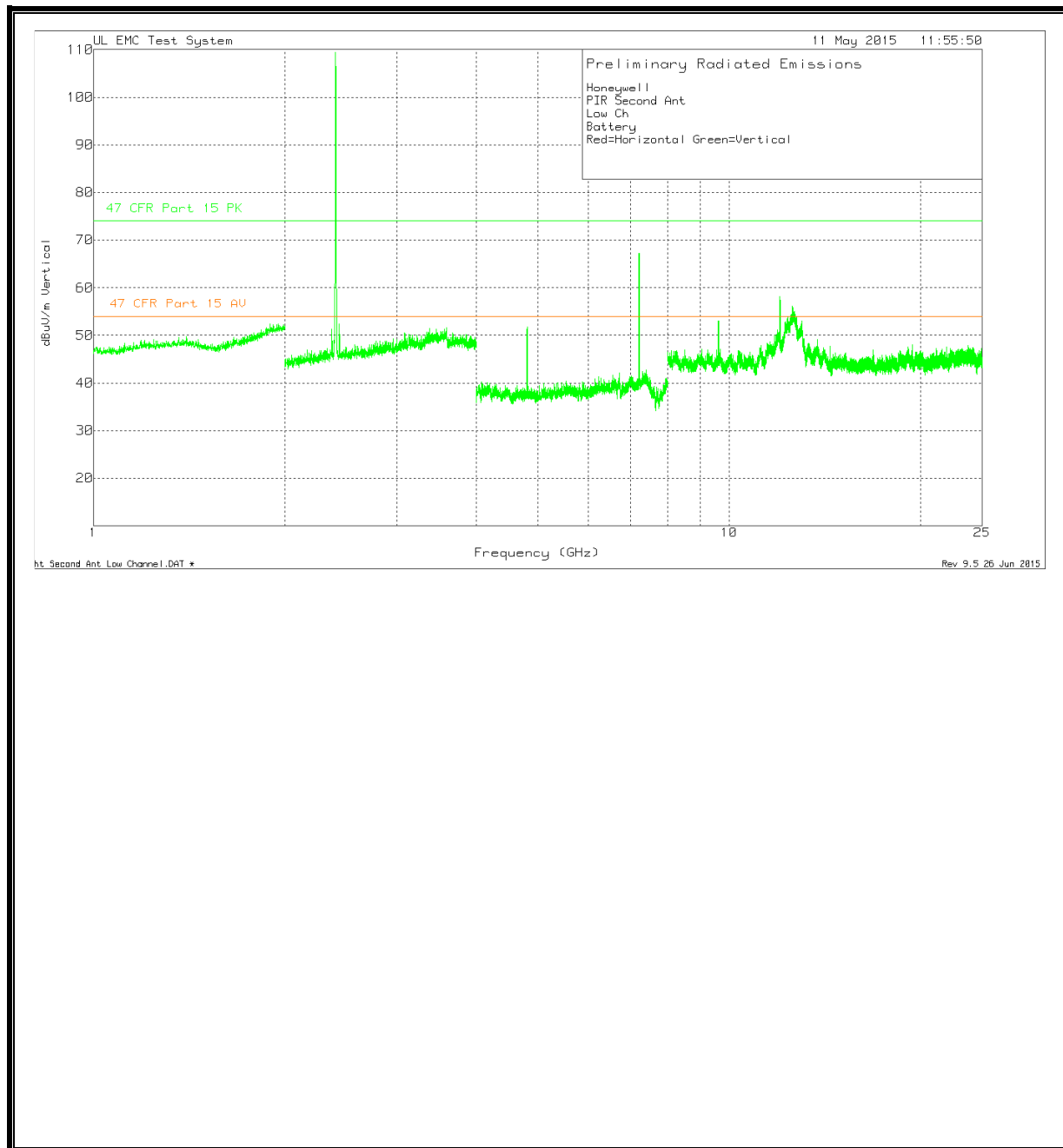
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Ant Factors (db/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Duty Cycle Correction	47 CFR Part 15 Av	Margin (dB)	47 CFR Part 15 PK	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
7.4266	87.39	Pk	30.8	-46.71	71.48	-23.13	54	-5.65	74	-2.52	342	133	H
4.9511	74.78	Pk	27.8	-50.76	51.82	-23.13	54	-25.31	74	-22.18	0	150	H
9.9022	74.95	Pk	36.4	-49.42	61.93	-23.13	54	-15.2	74	-12.07	318	150	H
12.3779	64.66	Pk	39.4	-36.8	67.26	-23.13	54	-9.87	74	-6.74	294	140	H
14.847	61.88	Pk	39.8	-40.6	61.08	-23.13	54	-16.05	74	-12.92	313	123	H
7.4236	83.67	Pk	30.8	-46.75	67.72	-23.13	54	-9.41	74	-6.28	332	150	V
4.9489	73.48	Pk	27.8	-50.76	50.52	-23.13	54	-26.61	74	-23.48	0	135	V
9.9021	71.01	Pk	36.4	-49.42	57.99	-23.13	54	-19.14	74	-16.01	24	100	V
12.3724	63.85	Pk	39.4	-36.66	66.59	-23.13	54	-10.54	74	-7.41	338	100	V
14.8536	57.69	Pk	39.8	-40.64	56.85	-23.13	54	-20.28	74	-17.15	14	150	V
PK- Peak Detector													

Above 1Ghz (WORST-CASE CONFIGURATION, Horizontal) Low Ch Ant 2



*See section 12 for ambient scan and measurement data.

Above 1Ghz (WORST-CASE CONFIGURATION, VERTICAL) Low Ch Ant 2

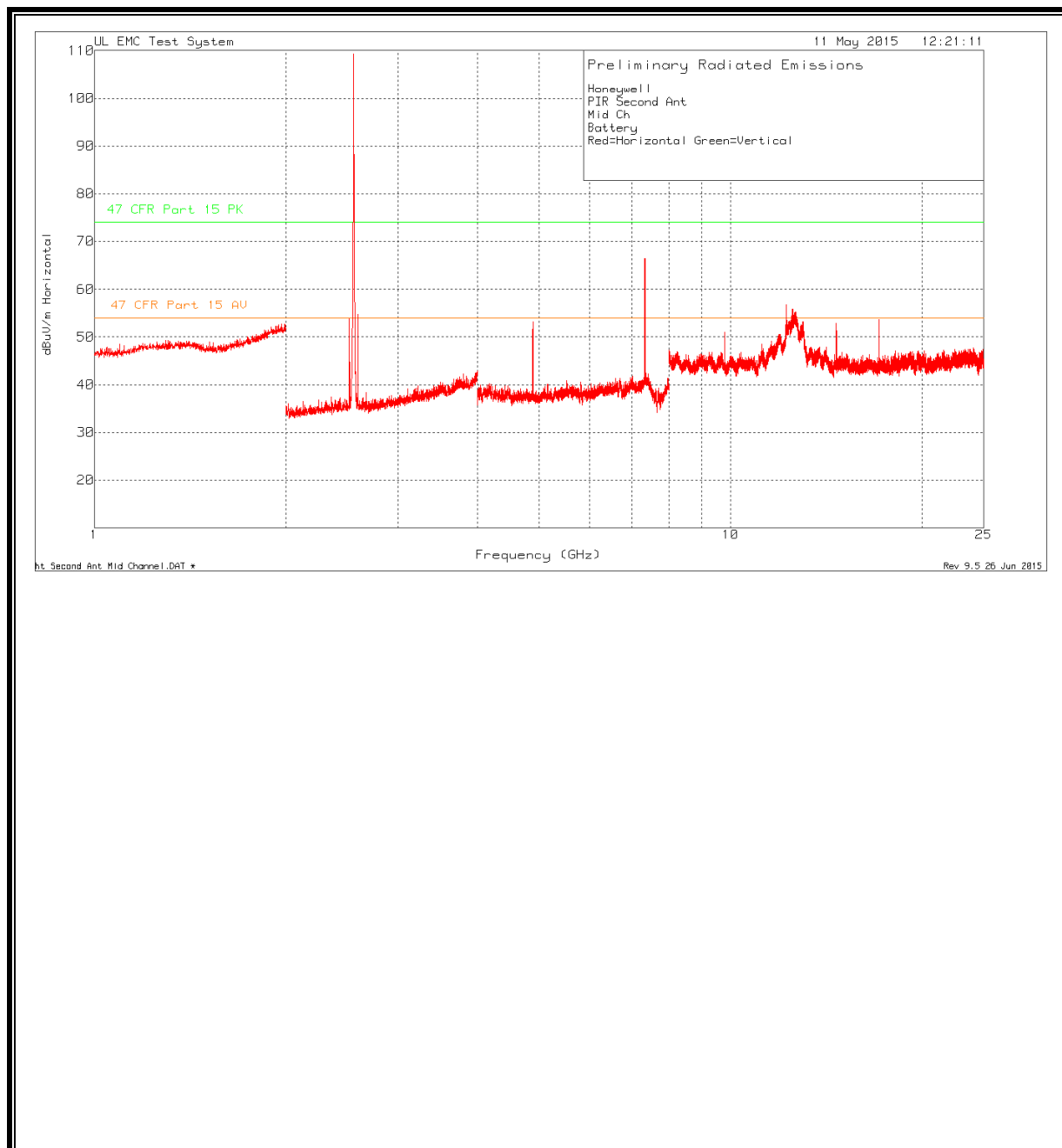


*See section 12 for ambient scan and measurement data.

Above 1Ghz (WORST-CASE CONFIGURATION, DATA) Low Ch Ant 2

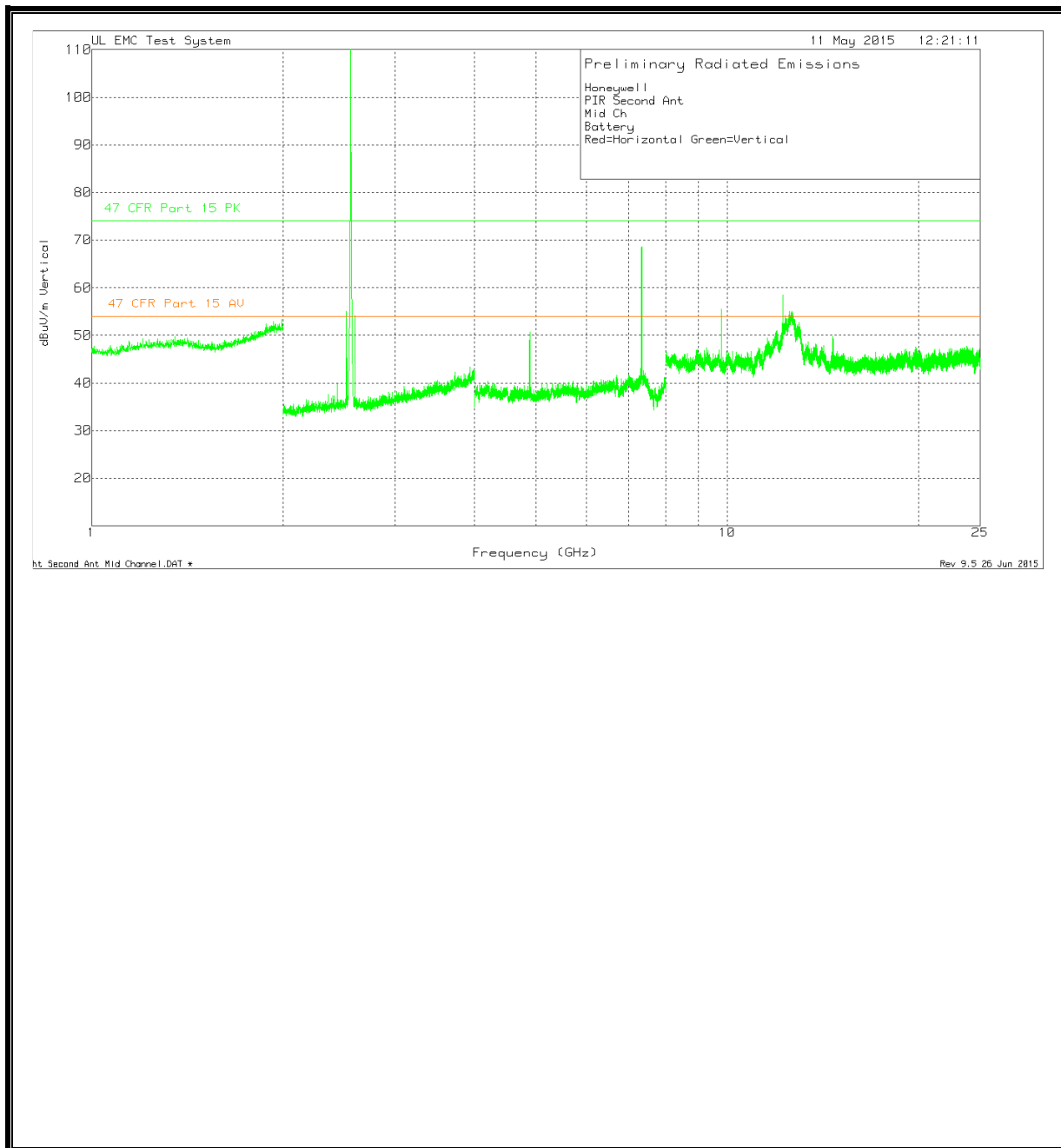
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Ant Factor (db/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Duty Cycle Correction	47 CFR Part 15 AV	Margin (dB)	47 CFR Part 15 PK	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
4.809	75.24	Pk	27.7	-50.57	52.37	-23.13	54	-24.76	74	-21.63	0-360	149	H
7.214	83.87	Pk	29.8	-46.73	66.94	-23.13	54	-10.19	74	-7.06	0-360	149	H
9.619	61.35	Pk	36.4	-48.36	49.39	-23.13	54	-27.74	74	-24.61	0-360	100	H
12.027	62.05	Pk	39.4	-41.06	60.39	-23.13	54	-16.74	74	-13.61	0-360	150	H
16.839	51.42	Pk	40.2	-40.46	51.16	-23.13	54	-25.97	74	-22.84	0-360	150	H
12.627	50.08	Pk	39.5	-34.21	55.37	-23.13	54	-21.76	74	-18.63	0-360	150	H
4.811	74.65	Pk	27.7	-50.55	51.8	-23.13	54	-25.33	74	-22.2	0-360	100	V
7.214	84.2	Pk	29.8	-46.73	67.27	-23.13	54	-9.86	74	-6.73	0-360	150	V
9.618	64.99	Pk	36.4	-48.38	53.01	-23.13	54	-24.12	74	-20.99	0-360	100	V
12.022	59.73	Pk	39.4	-40.91	58.22	-23.13	54	-18.91	74	-15.78	0-360	100	V
12.556	52.3	Pk	39.4	-35.53	56.17	-23.13	54	-20.96	74	-17.83	0-360	100	V
Pk- Peak Detection													

Above 1Ghz (WORST-CASE CONFIGURATION, Horizontal) Mid Ch Ant 2



*See section 12 for ambient scan and measurement data.

Above 1Ghz (WORST-CASE CONFIGURATION, VERTICAL) Mid Ch Ant 2

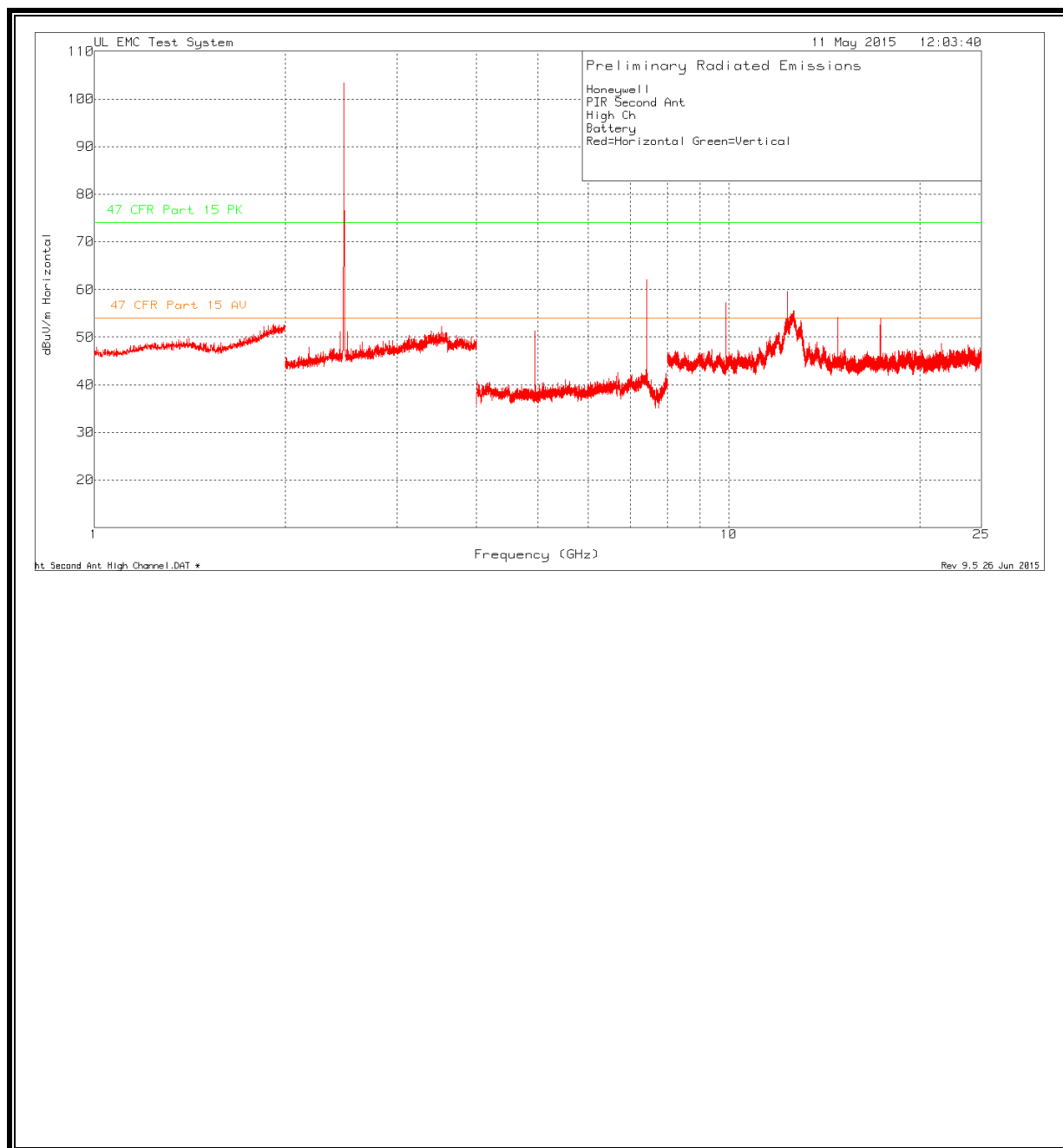


*See section 12 for ambient scan and measurement data.

Above 1Ghz (WORST-CASE CONFIGURATION, DATA) Mid Ch Ant 2

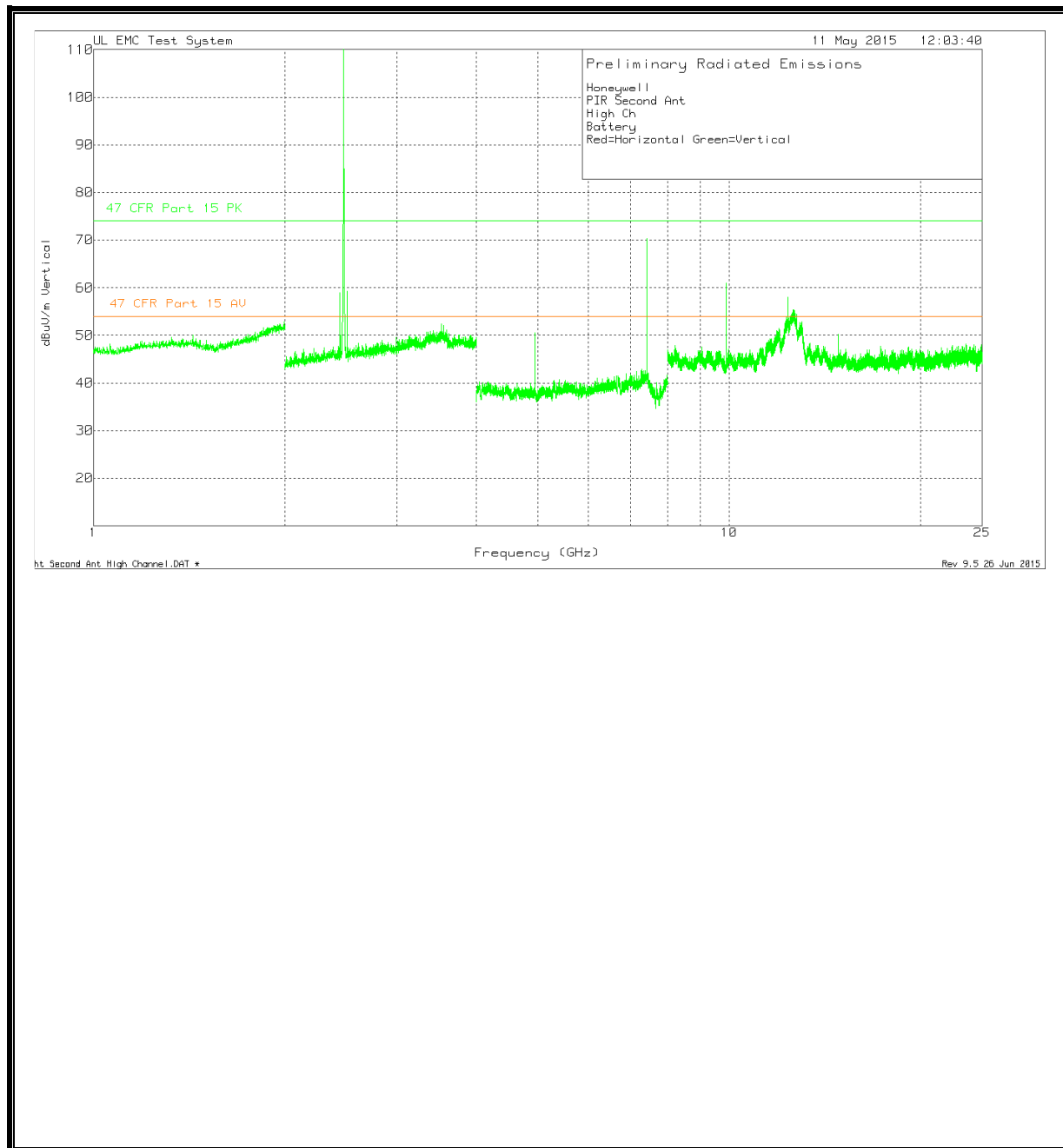
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Ant Factors (db/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Duty Cycle Correction	47 CFR Part 15 AV	Margin (dB)	47 CFR Part 15 PK	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
4.889	75.92	Pk	27.7	-50.42	53.2	-23.13	54	-23.93	74	-20.8	0-360	149	H
7.334	81.68	Pk	30.7	-45.91	66.47	-23.13	54	-10.66	74	-7.53	0-360	149	H
9.782	63.9	Pk	36.4	-49.29	51.01	-23.13	54	-26.12	74	-22.99	0-360	150	H
12.227	56.25	Pk	39.4	-38.95	56.7	-23.13	54	-20.43	74	-17.3	0-360	100	H
14.667	53.55	Pk	39.8	-40.56	52.79	-23.13	54	-24.34	74	-21.21	0-360	150	H
17.112	53.73	Pk	40.3	-40.34	53.69	-23.13	54	-23.44	74	-20.31	0-360	150	H
4.889	73.41	Pk	27.7	-50.42	50.69	-23.13	54	-26.44	74	-23.31	0-360	150	V
7.337	83.79	Pk	30.7	-45.9	68.59	-23.13	54	-8.54	74	-5.41	0-360	150	V
9.783	67.98	Pk	36.4	-49.3	55.08	-23.13	54	-22.05	74	-18.92	0-360	100	V
12.227	58.08	Pk	39.4	-38.95	58.53	-23.13	54	-18.6	74	-15.47	0-360	100	V
14.667	50.46	Pk	39.8	-40.56	49.7	-23.13	54	-27.43	74	-24.3	0-360	150	V
Pk - Peak detector													

Above 1Ghz (WORST-CASE CONFIGURATION, Horizontal) High Ch Ant 2



*See section 12 for ambient scan and measurement data.

Above 1Ghz (WORST-CASE CONFIGURATION, VERTICAL) High Ch Ant 2



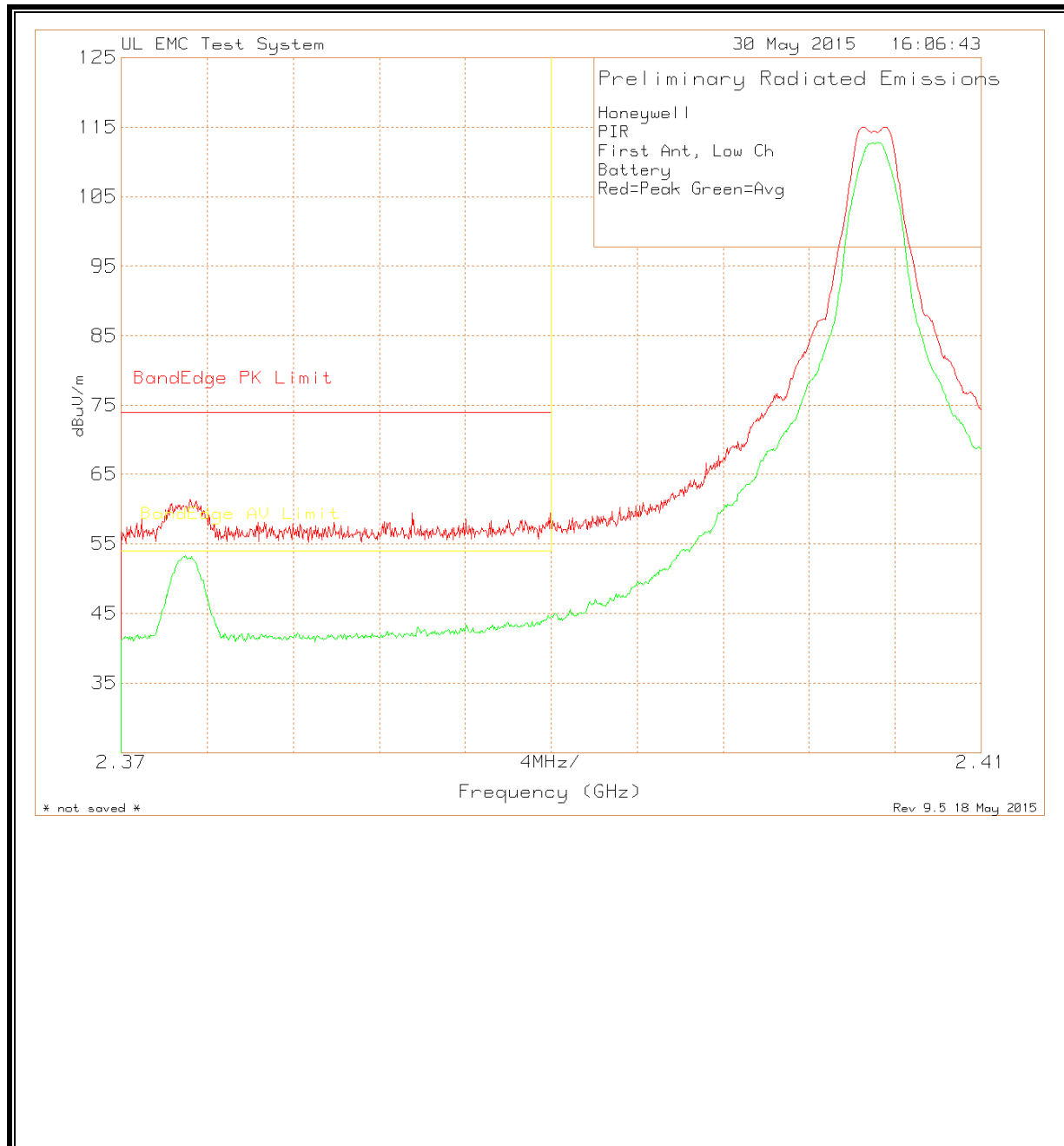
*See section 12 for ambient scan and measurement data.

Above 1Ghz (WORST-CASE CONFIGURATION, DATA) High Ch Ant 2

Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Ant Factors (db/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Duty Cycle Correction	47 CFR Part 15 Av	Margin (dB)	47 CFR Part 15 PK	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
7.427	78.01	Pk	30.8	-46.7	62.11	-23.13	54	-15.02	74	-11.89	0-360	149	H
9.902	70.18	Pk	36.4	-49.42	57.16	-23.13	54	-19.97	74	-16.84	0-360	150	H
12.372	56.81	Pk	39.4	-36.65	59.56	-23.13	54	-17.57	74	-14.44	0-360	150	H
2.443	32.4	Pk	21.9	4.59	58.89	-23.13	54	-18.24	74	-15.11	0-360	100	V
2.507	32.72	Pk	22.1	4.38	59.2	-23.13	54	-17.93	74	-14.8	0-360	100	V
7.427	86.14	Pk	30.8	-46.7	70.24	-23.13	54	-6.89	74	-3.76	0-360	150	V
9.899	74.05	Pk	36.4	-49.46	60.99	-23.13	54	-16.14	74	-13.01	0-360	100	V
12.372	55.23	Pk	39.4	-36.65	57.98	-23.13	54	-19.15	74	-16.02	0-360	100	V
Pk - Peak detector													

11. Bandedge

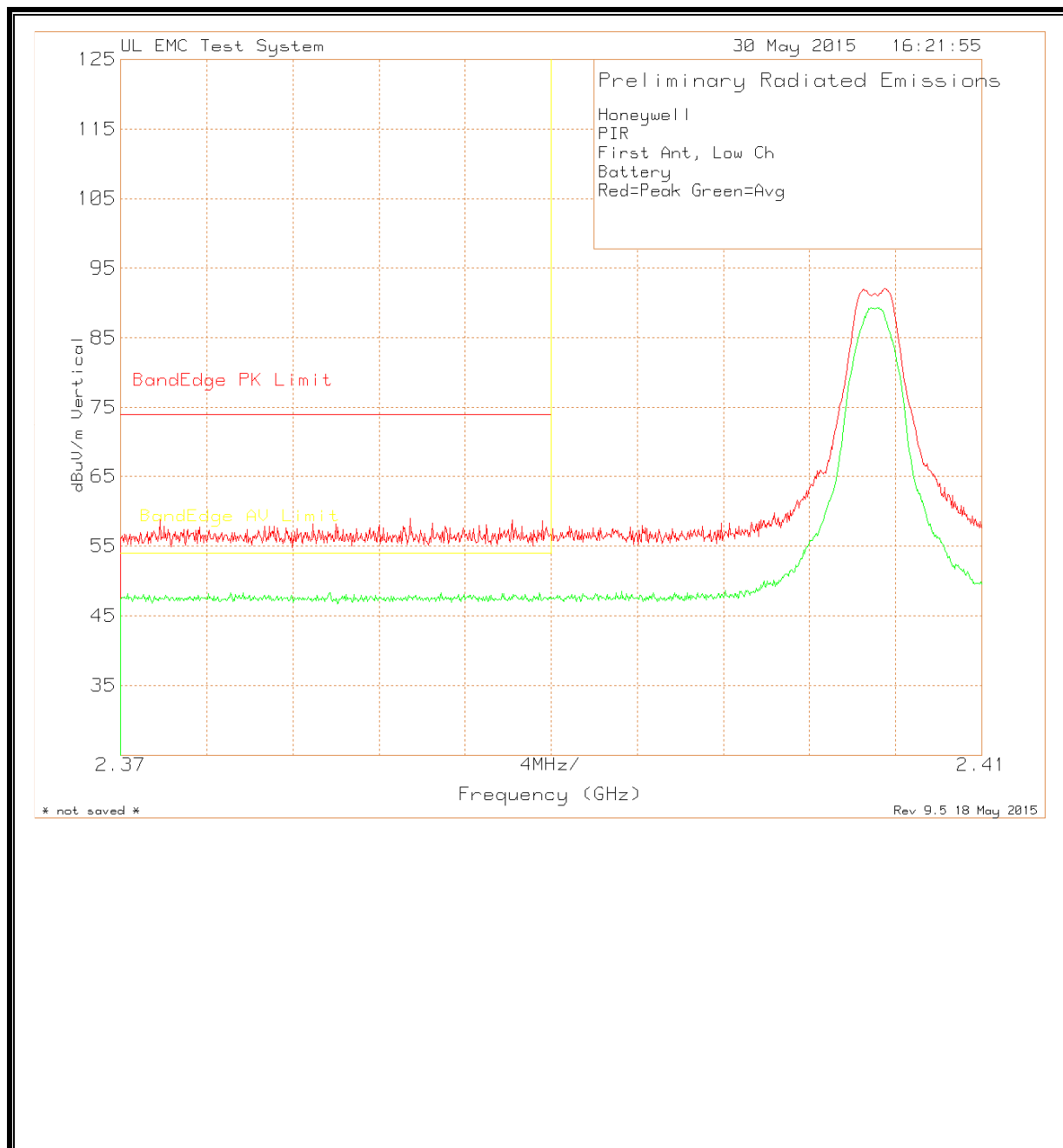
Bandedge (WORST-CASE CONFIGURATION, Horizontal) Low Ch Ant 1



Bandedge (WORST-CASE CONFIGURATION, Horizontal DATA) Low Ch Ant 1

Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Ant Factors (db)	Gain/Loss (dB)	Corrected Reading dBuV/m	BandEdge PK Limit	Margin (dB)	BandEdge AV Limit	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
2.3732	34.91	Pk	21.8	4.68	61.39	74	-12.61	-	-	178	101	H
2.39	32.9	Pk	21.8	4.72	59.42	74	-14.58	-	-	178	101	H
2.373	26.8	Pk	21.8	4.68	53.28	-	-	54	-0.72	178	101	H
2.3902	18.47	Pk	21.8	4.72	44.99	-	-	54	-9.01	178	101	H
Pk- Peak Detector												

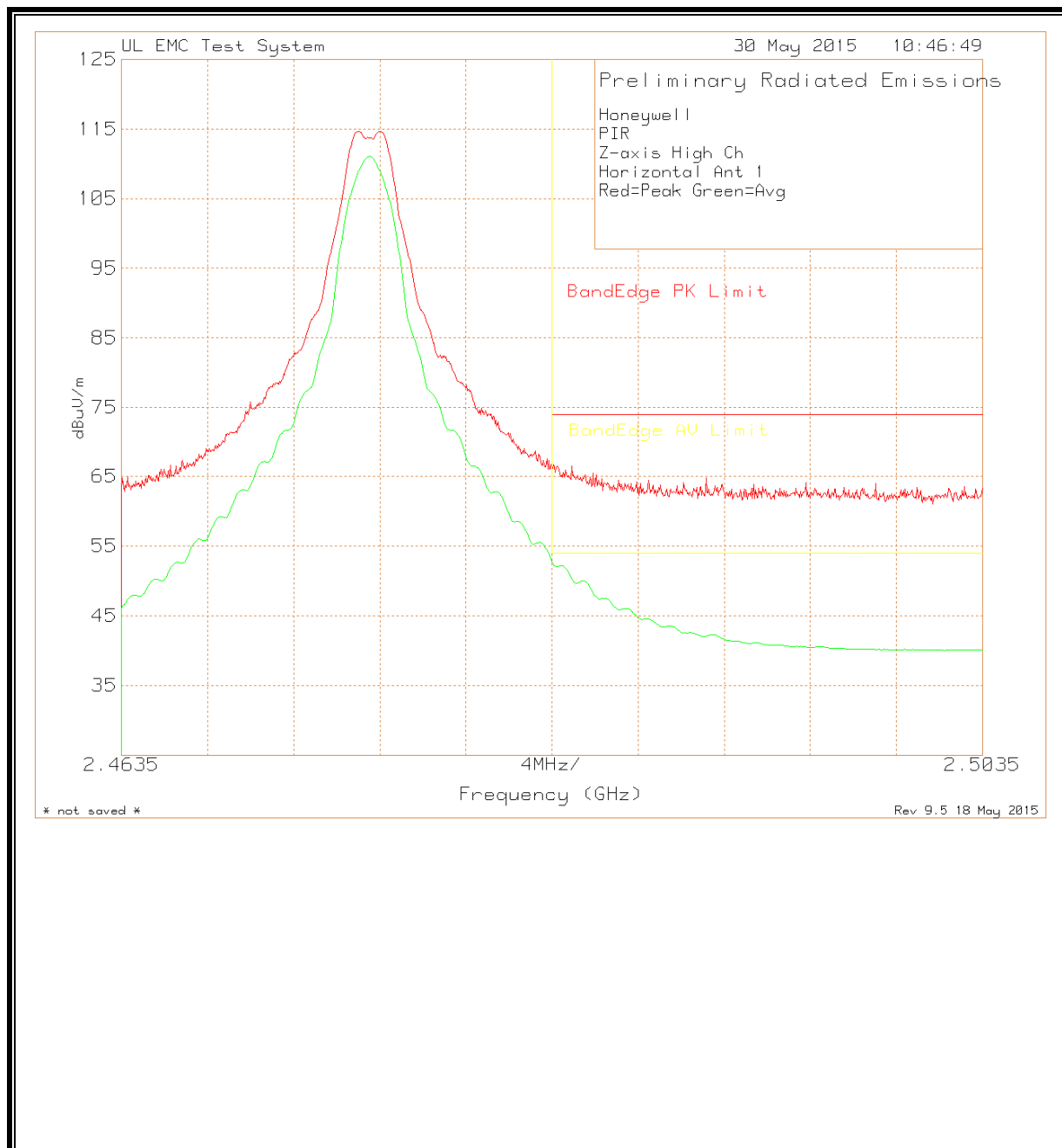
Bandedge (WORST-CASE CONFIGURATION, VERTICAL) Low Ch Ant 1



Bandedge (WORST-CASE CONFIGURATION, Vertical DATA) Low Ch Ant 1

Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Ant Factors	Gain/Loss (dB)	Corrected Reading dBuV/m	BandEdge PK Limit	Margin (dB)	BandEdge AV Limit	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
2.3896	32.15	Pk	21.8	4.72	58.67	74	-15.33	-	-	164	100	V
2.386	21.52	AV	21.8	4.68	48	-	-	54	-6	164	100	V
PK - Peak Detector												

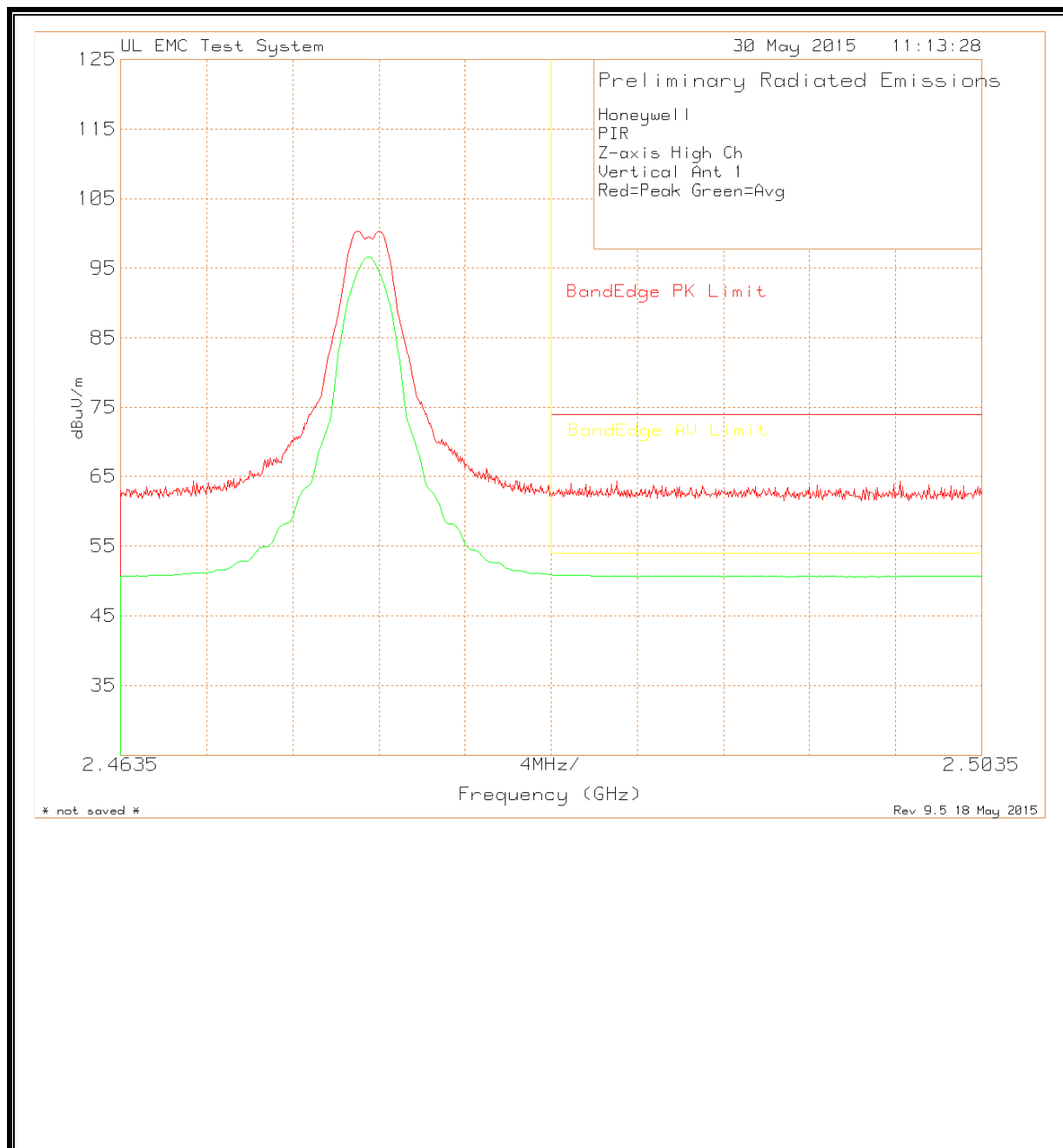
Bandedge (WORST-CASE CONFIGURATION, Horizontal) High Ch Ant 1



Bandedge (WORST-CASE CONFIGURATION, Horizontal DATA) High Ch Ant 1

Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Ant Factor (db/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	BandEdge PK Limit	Margin (dB)	BandEdge AV Limit	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
2.4844	40.02	Pk	22.1	4.37	66.49	74	-7.51	-	-	343	100	H
2.4839	25.69	AV	22.1	4.37	52.16	-	-	54	-1.84	343	100	H
PK- Peak Detector			AV - Average Detector									

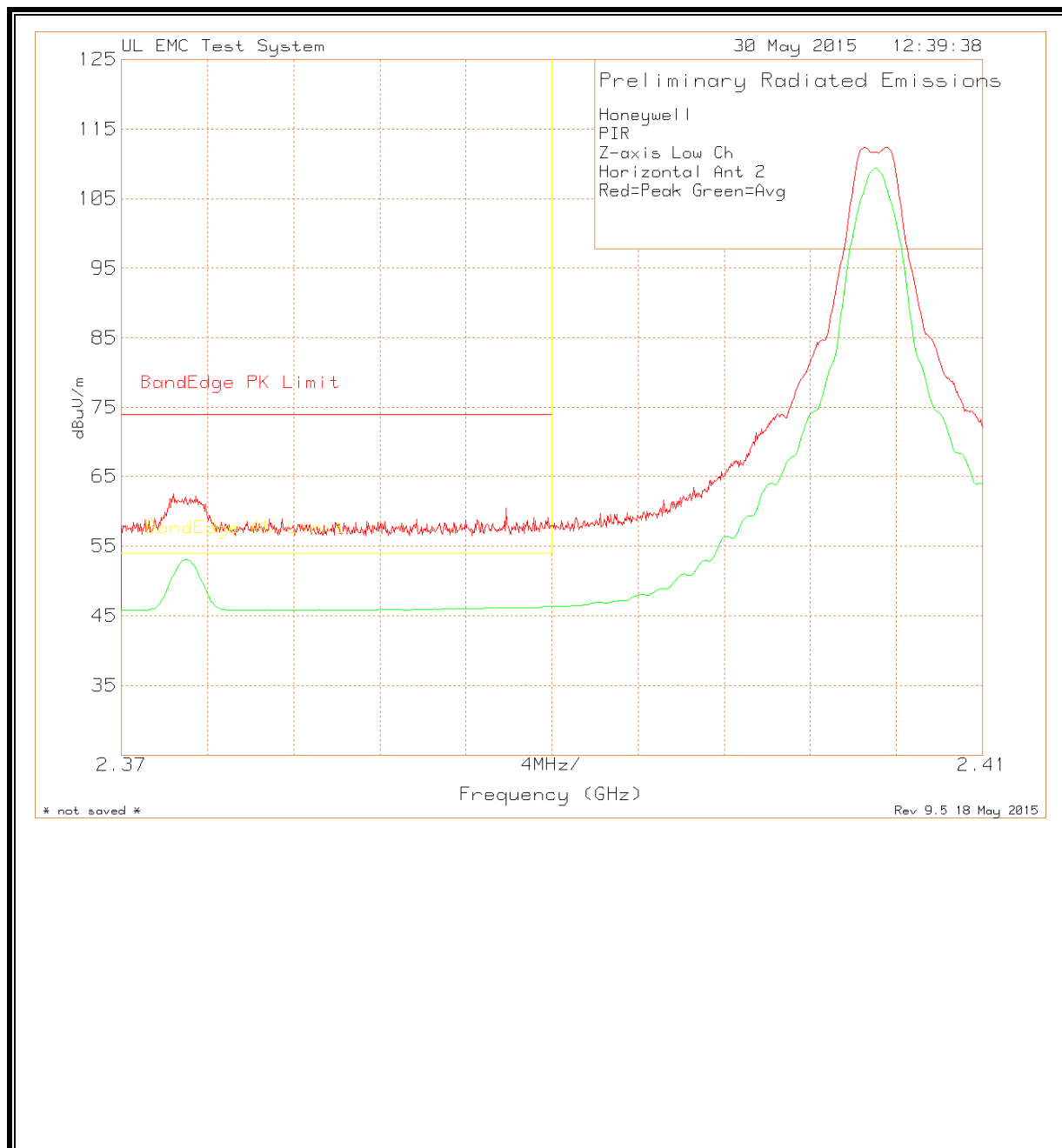
Bandedge (WORST-CASE CONFIGURATION, VERTICAL) High Ch Ant 1



Bandedge (WORST-CASE CONFIGURATION, Vertical DATA) High Ch Ant 1

Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Ant Factor (db/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	BandEdge PK Limit	Margin (dB)	BandEdge AV Limit	Margin (dB)	Azimuth [Dega]	Height [cm]	Polarity
2.4844	37.55	Pk	22.1	4.37	64.02	74	-9.98			288	250	V
2.4855	24.17	Pk	22.1	4.37	50.64			54	-3.36	288	250	V
Pk- Peak Detector												

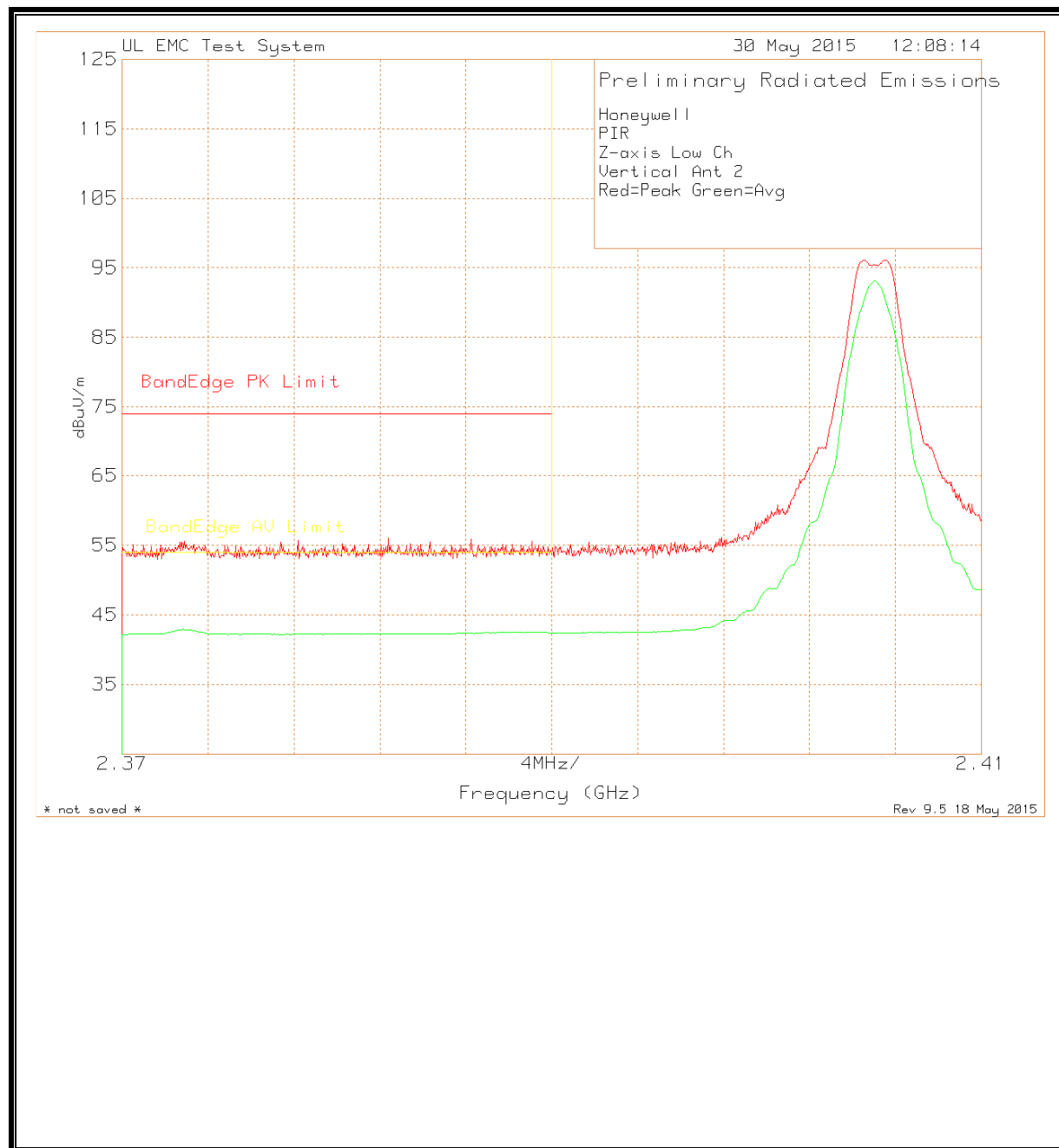
Bandedge (WORST-CASE CONFIGURATION, Horizontal) Low Ch Ant 2



Bandedge (WORST-CASE CONFIGURATION, Horizontal DATA) Low Ch Ant 2

Test Frequency (GHz)	Meter Reading (dBUV)	Detector	Ant Factor (db/m)	Gain/Loss (dB)	Corrected Reading dBUV/m	BandEdge PK Limit	Margin (dB)	BandEdge AV Limit	Margin (dB)	Azimuth [Deps]	Height [cm]	Polarity
2.3898	32.6	Pk	21.8	4.72	59.12	74	-14.88	-	-	233	121	H
2.3724	36.02	Pk	21.8	4.68	62.5	74	-11.5	-	-	233	121	H
2.373	26.6	AV	21.8	4.68	53.08	-	-	54	-0.92	233	121	H
2.3902	19.86	AV	21.8	4.72	46.38	-	-	54	-7.62	233	121	H
AV - Average Dectector				Pk - Peak Detector								

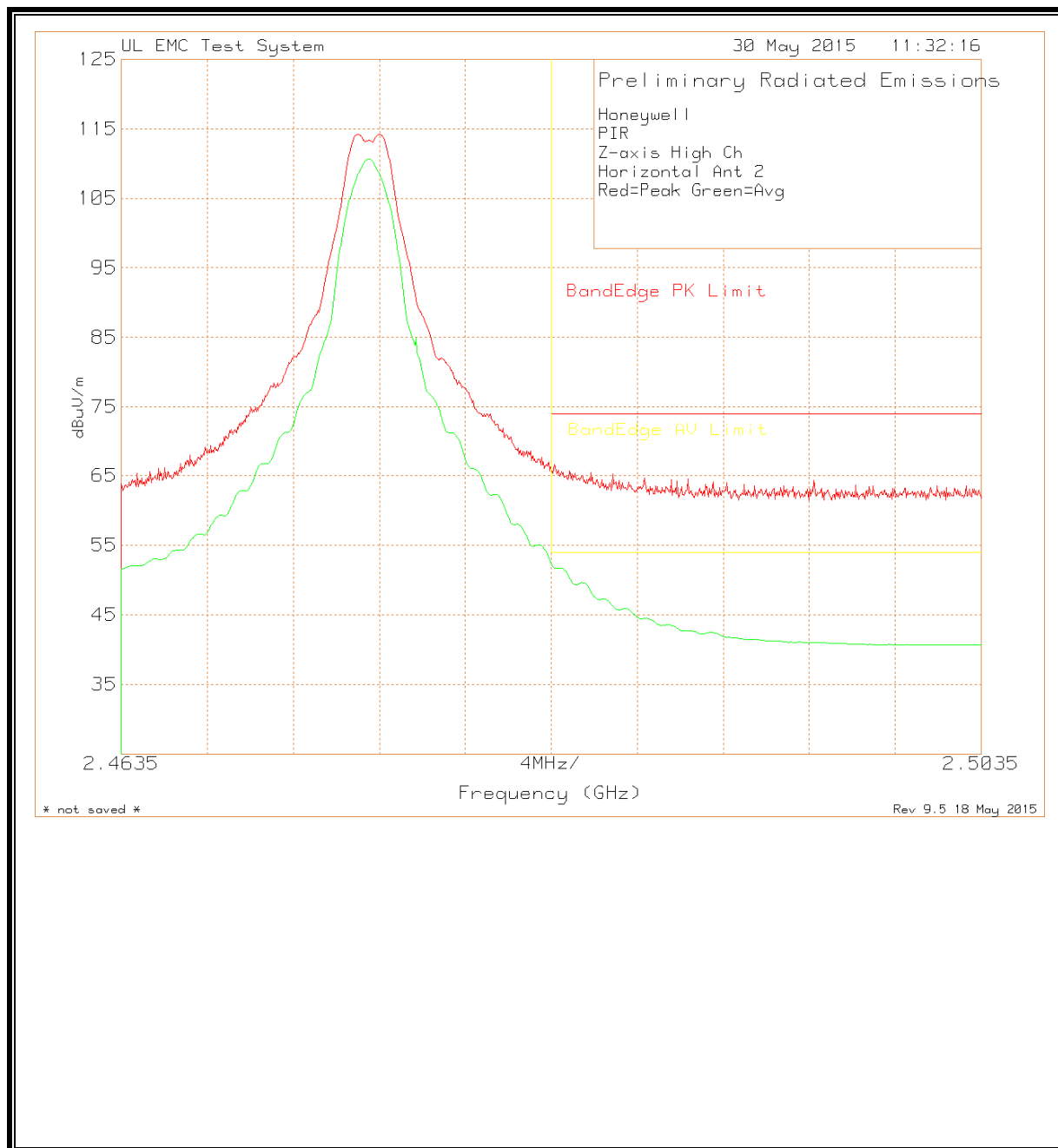
Bandedge (WORST-CASE CONFIGURATION, VERTICAL) Low Ch Ant 2



Bandedge (WORST-CASE CONFIGURATION, Vertical DATA) Low Ch Ant 2

Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Ant Factor (db/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	BandEdge PK Limit	Margin (dB)	BandEdge AV Limit	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
2.3896	28.4	Pk	21.8	4.72	54.92	74	-19.08	-	-	113	238	V
2.3898	15.94	AV	21.8	4.72	42.46	-	-	54	-11.54	113	238	V
AV - Average Dectector				Pk - Peak Detector								

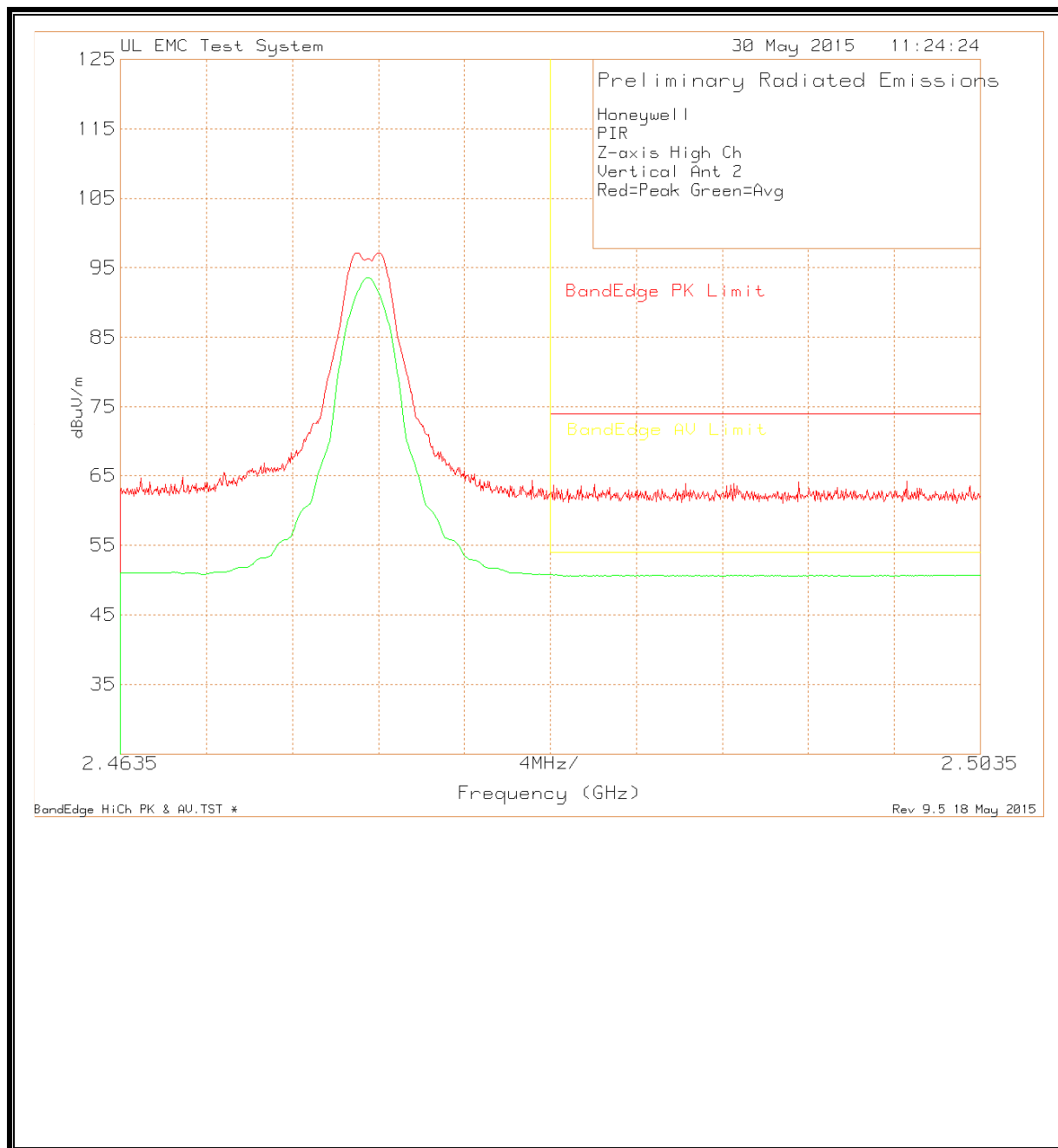
Bandedge (WORST-CASE CONFIGURATION, Horizontal) High Ch Ant 2



Bandedge (WORST-CASE CONFIGURATION, Horizontal DATA) High Ch Ant 2

Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Ant Factor (db/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	BandEdge PK Limit	Margin (dB)	BandEdge AV Limit	Margin (dB)	Azimuth [Deps]	Height [cm]	Polarity
2.4837	40.1	Pk	22.1	4.37	66.57	74	-7.43	-	-	352	100	H
2.4839	25.26	AV	22.1	4.37	51.73	-	-	54	-2.27	352	100	H
AV - Average Dectector				Pk - Peak Detector								

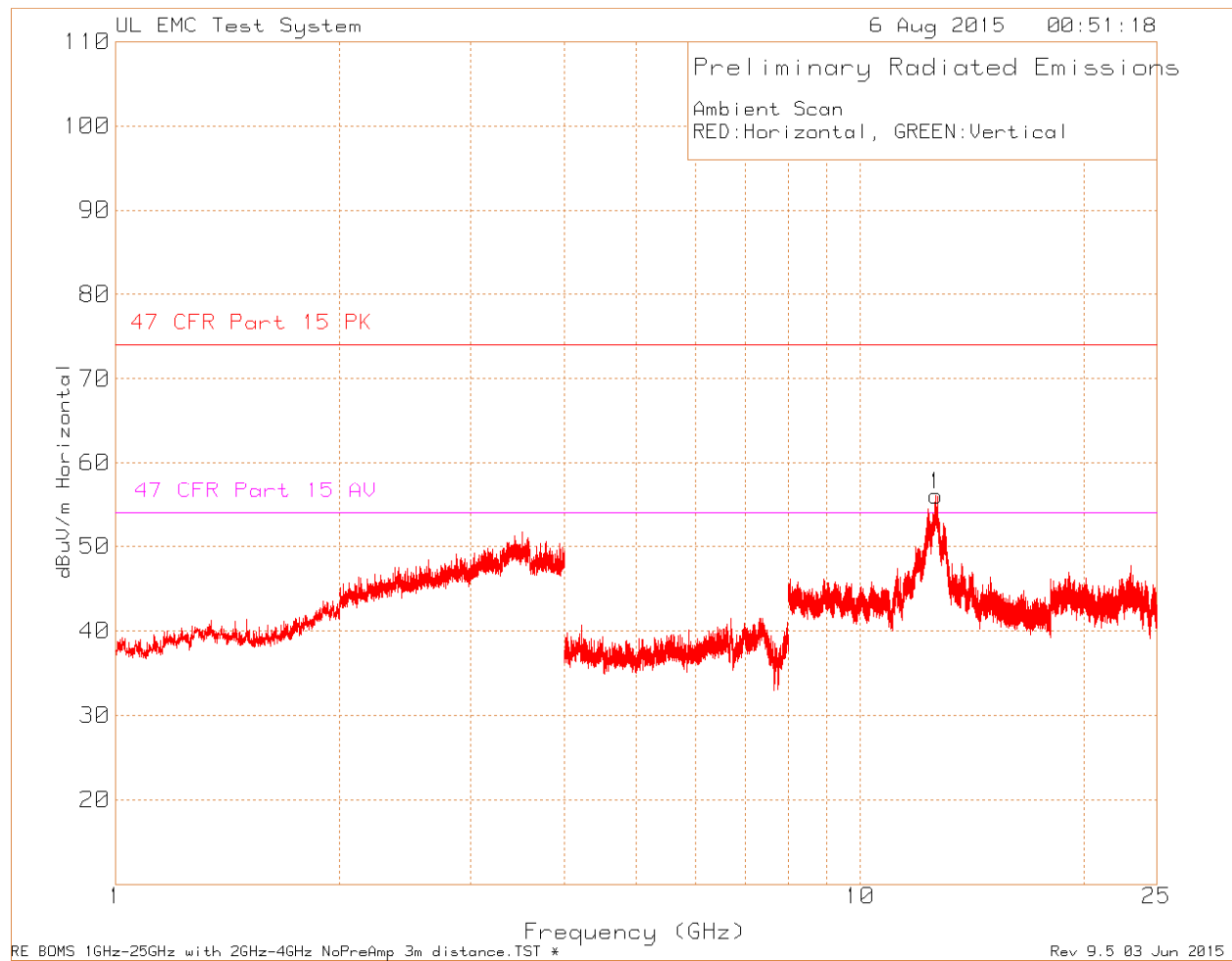
Bandedge (WORST-CASE CONFIGURATION, VERTICAL) High Ch Ant 2

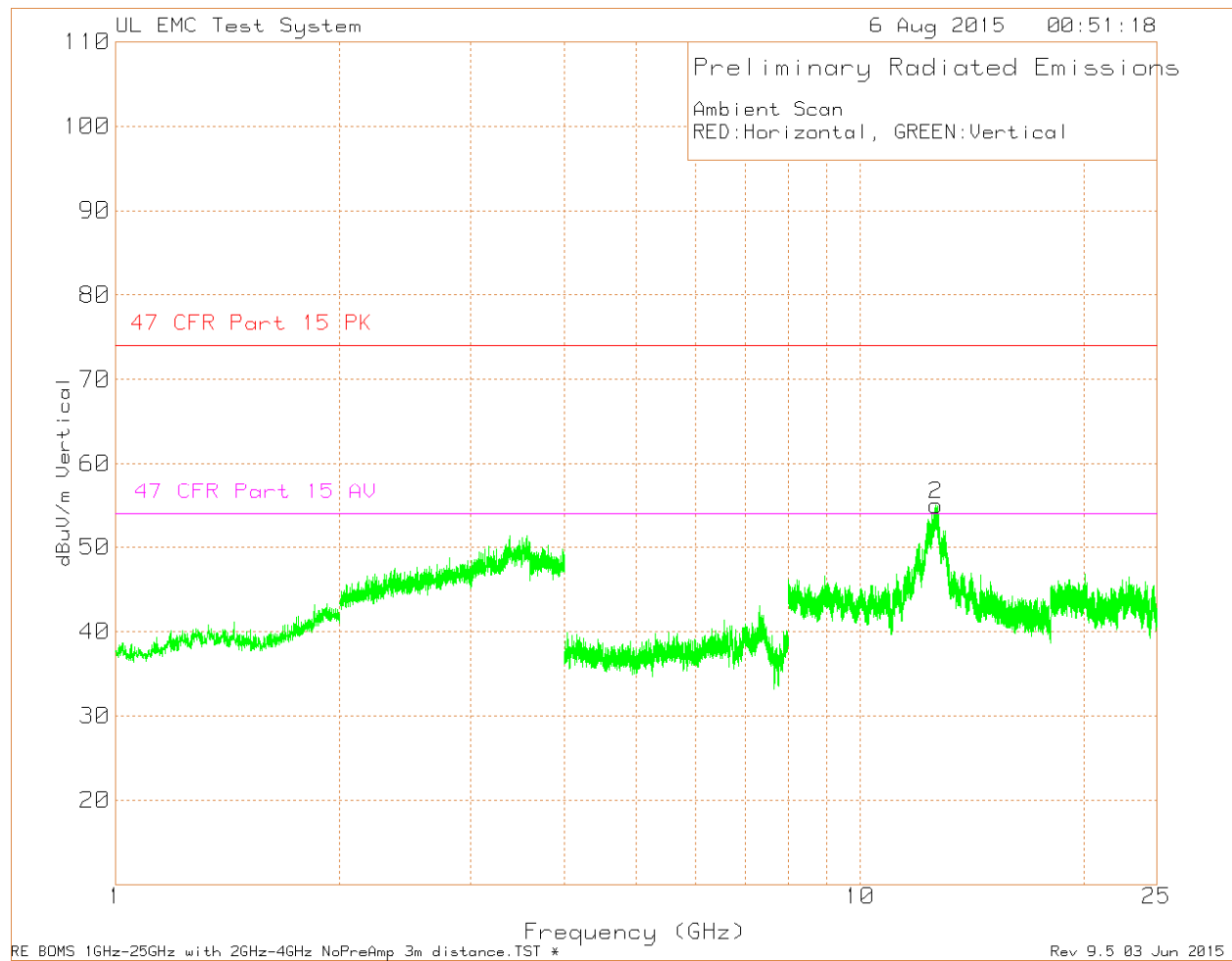


Bandedge (WORST-CASE CONFIGURATION, Vertical DATA) High Ch Ant 2

Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Ant Factor (db/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	BandEdge PK Limit	Margin (dB)	BandEdge AV Limit	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
2.4837	37.18	Pk	22.1	4.37	63.65	74	-10.35	-	-	288	250	V
2.4839	24.22	AV	22.1	4.37	50.69	-	-	54	-3.31	288	250	V
Av - Average Dectector				Pk - Peak Detector								

12. Ambient Scan Above 1Ghz





Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	EMCO 3160-08 S/N 9904-1100 UL	Gain/Loss (dB)	Corrected Reading dBuV/m	47 CFR Part 15 PK	Margin (dB)	47 CFR Part 15 AV	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	12.639	50.68	Pk	39.5	-34.13	56.05	74	-17.95	54	2.05	0-360	99	H
2	12.638	49.63	Pk	39.5	-34.1	55.03	74	-18.97	54	1.03	0-360	99	V
	12.6411	44.37	Av	39.5	-34.19	49.68	74	-24.32	54	-4.32	0	100	H
	12.6415	44.36	Av	39.5	-34.2	49.66	74	-24.34	54	-4.34	0	100	V
Av - Average detection			PK - Peak Detector										

END OF REPORT