



FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8

CERTIFICATION TEST REPORT

FOR

PHONE WITH 802.11B/G/N AND BLUETOOTH 2.1+EDR

MODEL SERIES: P160UNA

REPORT NUMBER: 10U13357-4A

FCC ID: O8F-BROU
IC: 3905A-BROU

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Prepared for
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NVLAP®

NVLAP LAB CODE 200065-0

Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|------------|---------------------------------|------------|
| --- | 11/03/10 | Initial Issue | T. Chan |
| A | 01/18/11 | Added KDB 680106 on Section 5.5 | A. Zaffar |

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: PALM, INC.
950 WEST MAUDE AVENUE
SUNNYVALE, CA 94085, U.S.A.

EUT DESCRIPTION: PHONE WITH 802.11B/G/N AND BLUETOOTH 2.1+EDR

MODEL: P160UNA

SERIAL NUMBER: BD2LN9UA6818

DATE TESTED: OCTOBER 28 TO NOVEMBER 1, 2010

| APPLICABLE STANDARDS | |
|---------------------------------|--------------|
| STANDARD | TEST RESULTS |
| FCC PART 15 SUBPART C | Pass |
| INDUSTRY CANADA RSS-210 Issue 8 | Pass |
| INDUSTRY CANADA RSS-GEN Issue 3 | Pass |

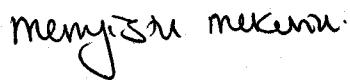
Compliance Certification Services (UL CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL CCS based on interpretations and/or observations of test results. Measurement Uncertainties 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 CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL CCS 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 CCS By:



Tested By:



THU CHAN
ENGINEERING MANAGER
UL CCS

MENGISTU MEKURIA
EMC ENGINEER
UL CCS

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

UL CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

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

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

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

| PARAMETER | UNCERTAINTY |
|---------------------------------------|-------------|
| Conducted Disturbance, 0.15 to 30 MHz | 3.52 dB |
| Radiated Disturbance, 30 to 1000 MHz | 4.94 dB |

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT is 850/900/1800/1900 MHz GSM/GPRS/EDGE and 850/1900/2100 WCDMA/HSDPA/HSUPA phone with 802.11b/g/n and Bluetooth v2.1+EDR. The phone and the inductive charger (touchstone) form an inductively coupled battery charger system intended for charging the battery inside the phone.

The accessory back cover receives on a frequency of approximately 118.5 kHz and transmits on a frequency of approximately 3.1 MHz.

5.2. MAXIMUM FIELD STRENGTH

The transmitter has maximum radiated field strength as follows:

| Frequency (MHz) | Field Strength (dBuV/m @ 30 m) | Field Strength (uV/m @ 30 m) |
|--------------------|-----------------------------------|---------------------------------|
| 3.1 | -9.92 | 0.319 |

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an integral loop antenna.

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was Palm Airboard Firmware, rev. 13P.

5.5. MODE(S) OF OPERATION

When the accessory cover is within approximately 0.2 mm of, and properly aligned with, the base the transmitters on both the base and the cover will operate.

The base provides power for charging the battery and for operating the radio devices in both the base and the cover.

5.6. TEST CONFIGURATIONS

The following configurations were investigated during preliminary testing:

| EUT Configuration | Description |
|-------------------|--|
| Standard | EUT were tested with a dead battery therefore draw the most current. |

5.7. WORST-CASE CONFIGURATION AND MODE

Based on past experience, the EUT with dead battery, inductive Dock, and AC Adapter is considered as the worst-case.

KDB 680106 "Client Device Considerations" was considered and evaluation performed as applicable to this device. The inductive charger has been certified under FCC ID: O8F-TST1. IC: 3905A-TST1. EUT is working in charging mode with the inductive charger. The inductive back cover is not removable. For more information, please refer to this inductive charger FCC ID/ IC ID.

5.8. MODIFICATIONS

No modifications were made during testing.

5.9. DESCRIPTION OF TEST SETUP

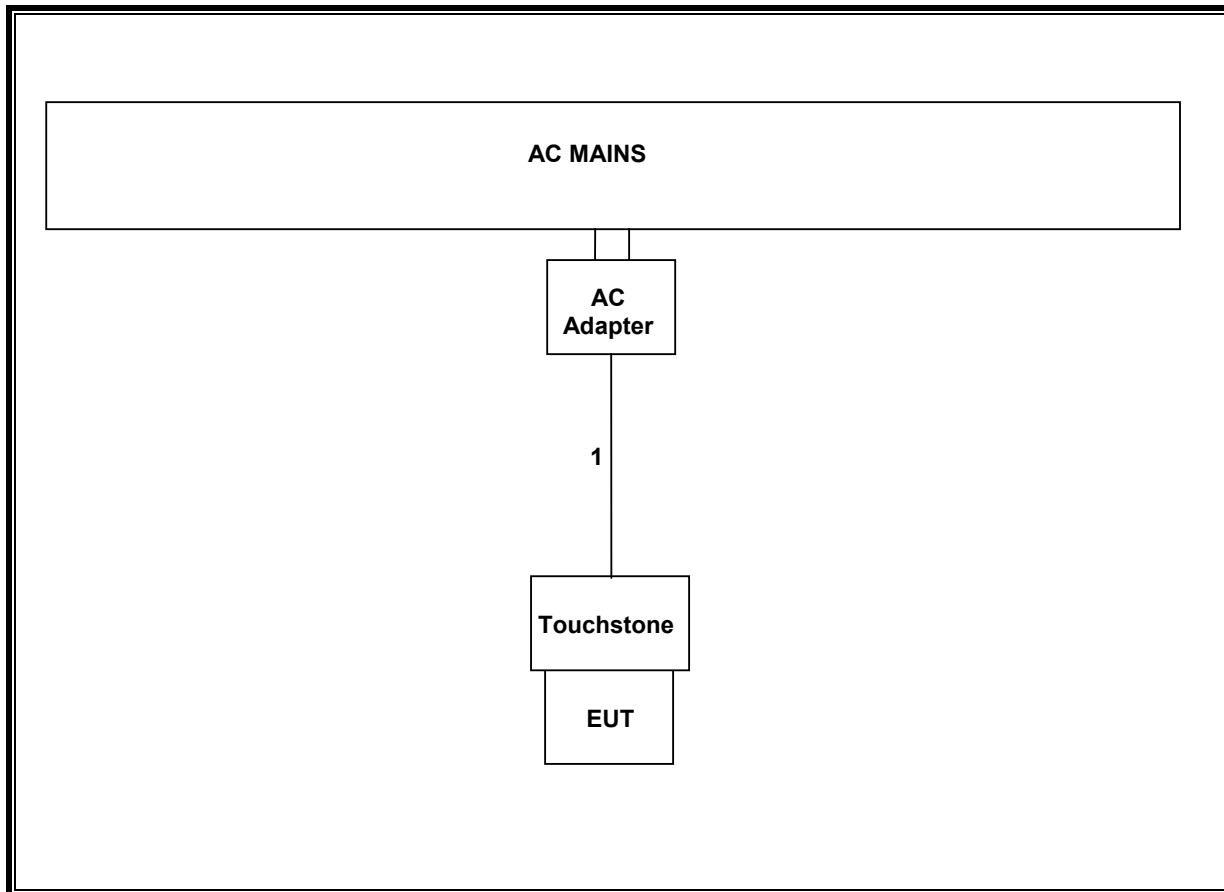
SUPPORT EQUIPMENT

| PERIPHERAL SUPPORT EQUIPMENT LIST | | | | |
|-----------------------------------|--------------|--------------|---------------|--------|
| Description | Manufacturer | Model | Serial Number | FCC ID |
| Touchstone | Palm, Inc. | 157-10123-00 | N/A | DoC |
| AC Adapter 1 | Palm, Inc. | 157-10124-00 | N/A | DoC |
| AC Adapter 2 | Palm, Inc. | 157-10130-00 | N/A | DoC |

I/O CABLES

| I/O CABLE LIST | | | | | | |
|----------------|------|----------------------|----------------|------------|--------------|---------|
| Cable No. | Port | # of Identical Ports | Connector Type | Cable Type | Cable Length | Remarks |
| 1 | USB | 1 | Micro USB | Shielded | 1m | |

SETUP DIAGRAM FOR TEST CONFIGURATIONS WITHOUT BATTERY



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 | Asset or Serial Number | Cal Due |
| Antenna, Loop, 30 MHz | EMCO | 6502 | 0035798 | 01/12/12 |
| EMI Receiver, 2.9 GHz | Agilent / HP | 8542E | C00957 | 03/24/11 |
| RF Filter Section, 2.9 GHz | Agilent / HP | 85420E | C00958 | 03/24/11 |
| Spectrum Analyzer, 44 GHz | Agilent / HP | E4446A | C01069 | 03/05/11 |
| Preamplifier, 1300 MHz | Agilent / HP | 8447D | C00580 | 01/06/11 |
| Antenna, BiLog, 2 GHz | Sundt Sciences | JB1 | C01016 | 07/12/11 |
| LISN, 10 kHz ~ 30 MHz | Solar | 8012-50-R-24-BNC | N02481 | 11/05/10 |
| EMI Test Receiver, 30 MHz | R&S | ESHS 20 | N02396 | 05/06/11 |
| LISN, 30 MHz | FCC | LISN-50/250-25-2 | N02625 | 11/06/01 |

7. 99% BANDWIDTH

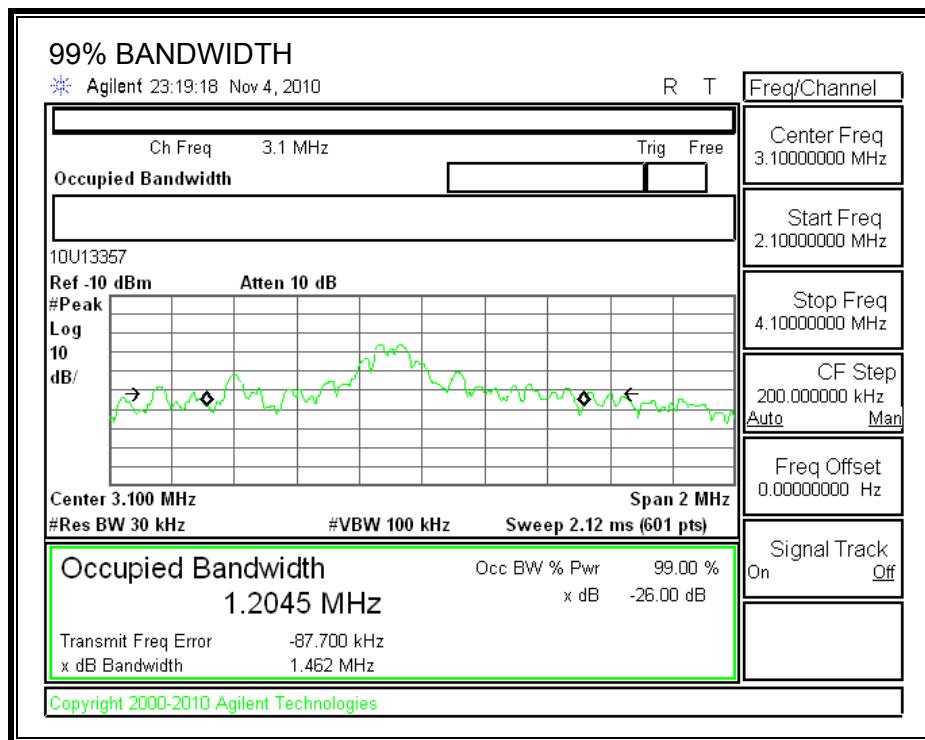
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the measured bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal bandwidth function is utilized.

RESULTS



8. RADIATED EMISSIONS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.209 (a)
IC RSS-210, Section 2.6
IC RSS-GEN, Section 6

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (m) |
|-----------------|-----------------------------------|--------------------------|
| 0.009–0.490 | 2400/F(kHz) | 300 |
| 0.490–1.705 | 24000/F(kHz) | 30 |
| 1.705–30.0 | 30 | 30 |
| 30–88 | 100 | 3 |
| 88 to 216 | 150 | 3 |
| 216 to 960 | 200 | 3 |
| Above 960 MHz | 500 | 3 |

Note: The lower limit shall apply at the transition frequency.

TEST PROCEDURE

ANSI C63.4

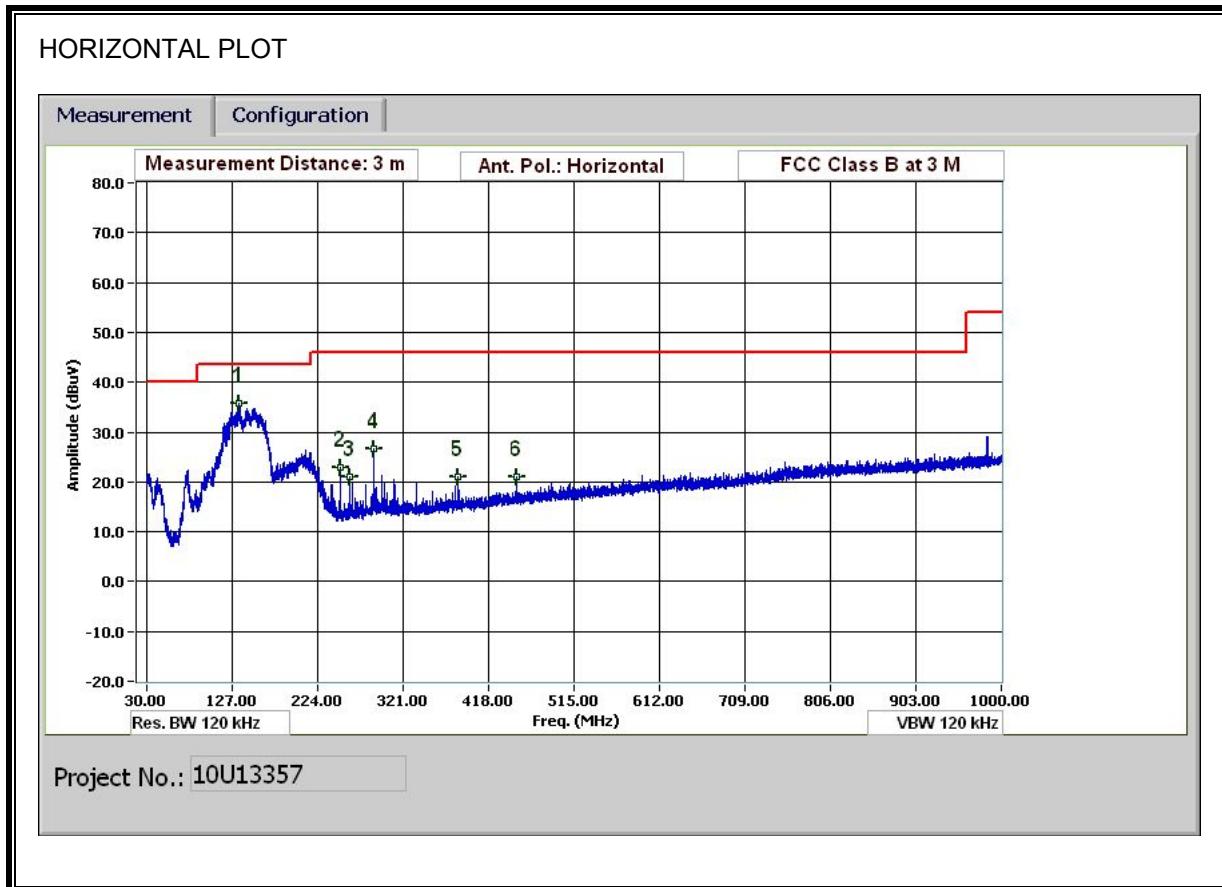
The transmitter and receiver of the EUT are measured simultaneously.

8.2. RADIATED EMISSIONS 0.15 TO 30 MHz (WORST CASE CONFIGURATION)

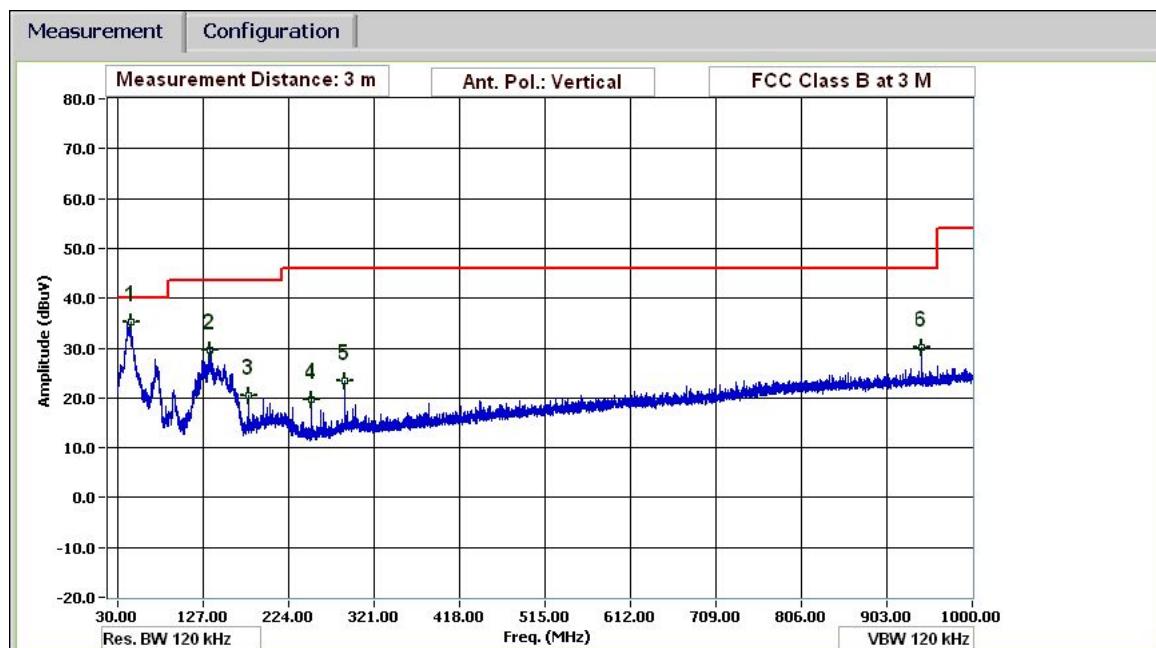
| FCC Part 15.209 Loop Antenna Measurement At Open Field below 30 MHz | | | | | | | | | | | | | |
|---|---|-------------|----------------|---------|-------------|----------------|---------|-------------|-------|----------------|----------|-------|------------------|
| Company: | Palm, Inc. | | | | | | | | | | | | |
| Project #: | 10U13357 | | | | | | | | | | | | |
| Model #: | Cell Phone with Touchstone and AC Adapter | | | | | | | | | | | | |
| Tester: | Mengistu Mekuria | | | | | | | | | | | | |
| Date: | 11/1/2010 | | | | | | | | | | | | |
| Frequency | Reading | Measurement | Field Strength | Reading | Measurement | Field Strength | Antenna | Distance | Limit | Field Strength | Limit | Delta | Notes |
| (MHz) | (dBuV) | (m) | (dBuV/m) | (dBuV) | (m) | (dBuV/m) | (dB/m) | (dB/decade) | (m) | (dBuV/m) | (dBuV/m) | (dB) | (Pk/OP/AV, etc.) |
| Loop Antenna Maximized over Vertical and Horizontal: | | | | | | | | | | | | | |
| 3.09 | 38.96 | 1 | 49.16 | | | 10.20 | 40.00 | 30 | -9.92 | 29.54 | -39.5 | PK | |
| No other emissions observed up to 30 MHz | | | | | | | | | | | | | |
| Notes: In accordance with 15.31 (f) (2): For each frequency at which a measurement is made at only one distance, the square of an inverse linear distance extrapolation factor (40 dB/decade) is applied. For each frequency at which measurements are made at two distances, the applied extrapolation factor is calculated from these two measurements. | | | | | | | | | | | | | |

EUT WITH 157-10124-00 BATTERY CHARGER

8.3. RADIATED EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



VERTICAL PLOT



Project No.: 10U13357

TABULATED DATA

30-1000MHz Frequency Measurement

Test Engr: Mengistu Mekuria
Date: 11/01/10
Project #: 10U13357
Company: Palm
Test Target: FCC Class B
Mode Oper: Charging Mode (10124)

| f | Measurement Frequency | Amp | Preamp Gain | Margin | Margin vs. Limit |
|------|-----------------------|--------|------------------------------|--------|------------------|
| Dist | Distance to Antenna | D Corr | Distance Correct to 3 meters | | |
| Read | Analyzer Reading | Filter | Filter Insert Loss | | |
| AF | Antenna Factor | Cor. | Calculated Field Strength | | |
| CL | Cable Loss | Limit | Field Strength Limit | | |

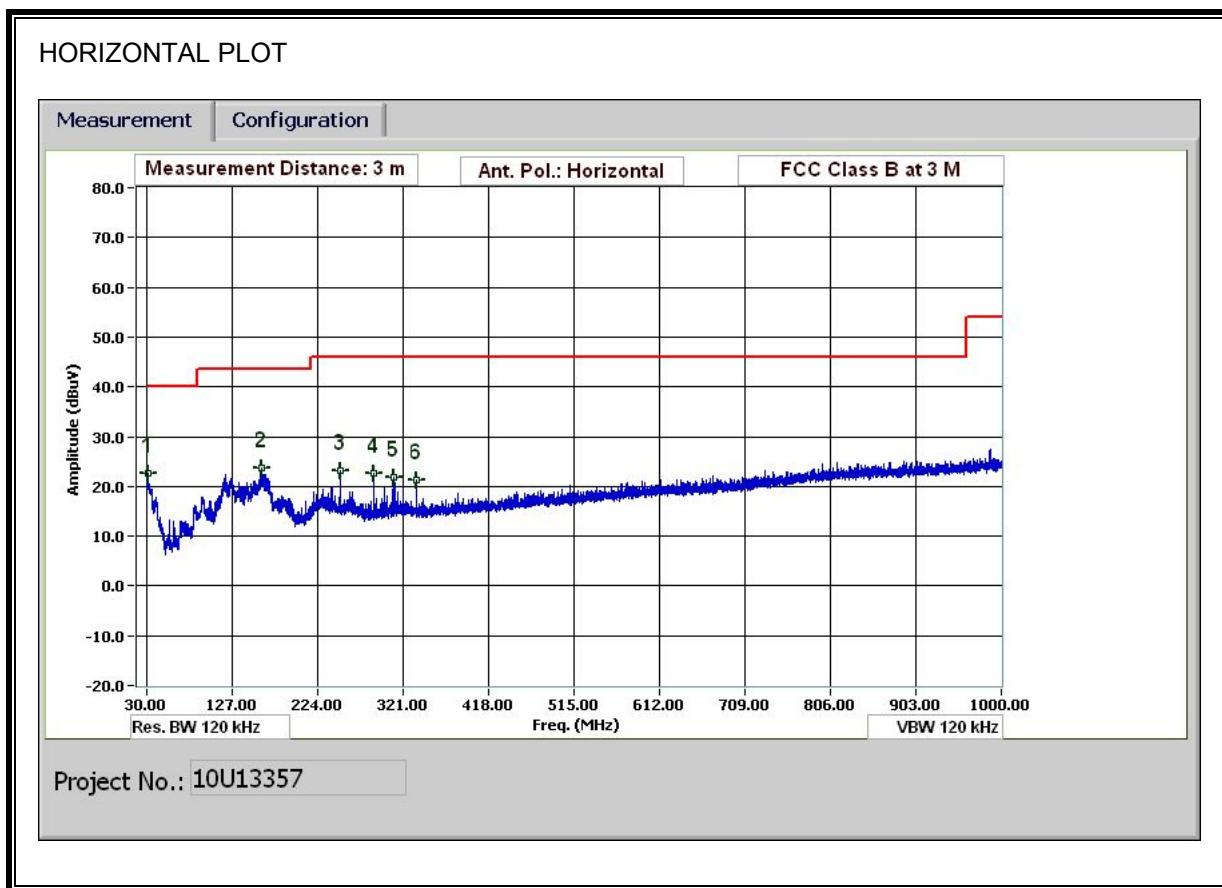
| f MHz | Dist (m) | Read dBuV | AF dB/m | CL dB | Amp dB | D Corr dB | Pad dB | Corr. dBuV/m | Limit dBuV/m | Margin dB | Ant. Pol. V/H | Det. P/A/QP | Notes |
|----------|-------------|--------------|------------|----------|-----------|--------------|-----------|-----------------|-----------------|--------------|------------------|----------------|-------|
| 134.284 | 3.0 | 50.5 | 13.5 | 1.0 | 29.4 | 0.0 | 0.0 | 35.7 | 43.5 | -7.8 | H | P | |
| 249.969 | 3.0 | 38.5 | 11.8 | 1.4 | 28.8 | 0.0 | 0.0 | 22.9 | 46.0 | -23.1 | H | P | |
| 260.049 | 3.0 | 36.2 | 12.1 | 1.5 | 28.8 | 0.0 | 0.0 | 20.9 | 46.0 | -25.1 | H | P | |
| 287.891 | 3.0 | 41.1 | 12.9 | 1.6 | 28.8 | 0.0 | 0.0 | 26.8 | 46.0 | -19.2 | H | P | |
| 383.895 | 3.0 | 33.7 | 14.7 | 1.9 | 29.2 | 0.0 | 0.0 | 21.1 | 46.0 | -24.9 | H | P | |
| 450.017 | 3.0 | 32.5 | 15.9 | 2.0 | 29.5 | 0.0 | 0.0 | 21.0 | 46.0 | -25.0 | H | P | |
| 45.001 | 3.0 | 53.3 | 11.1 | 0.6 | 29.6 | 0.0 | 0.0 | 35.3 | 40.0 | -4.7 | V | P | |
| 134.404 | 3.0 | 44.4 | 13.5 | 1.0 | 29.4 | 0.0 | 0.0 | 29.5 | 43.5 | -14.0 | V | P | |
| 178.326 | 3.0 | 37.7 | 10.6 | 1.2 | 29.1 | 0.0 | 0.0 | 20.4 | 43.5 | -23.1 | V | P | |
| 249.969 | 3.0 | 35.3 | 11.8 | 1.4 | 28.8 | 0.0 | 0.0 | 19.7 | 46.0 | -26.3 | V | P | |
| 287.891 | 3.0 | 37.7 | 12.9 | 1.6 | 28.8 | 0.0 | 0.0 | 23.4 | 46.0 | -22.6 | V | P | |
| 942.518 | 3.0 | 33.5 | 22.0 | 3.1 | 28.5 | 0.0 | 0.0 | 30.1 | 46.0 | -15.9 | V | P | |

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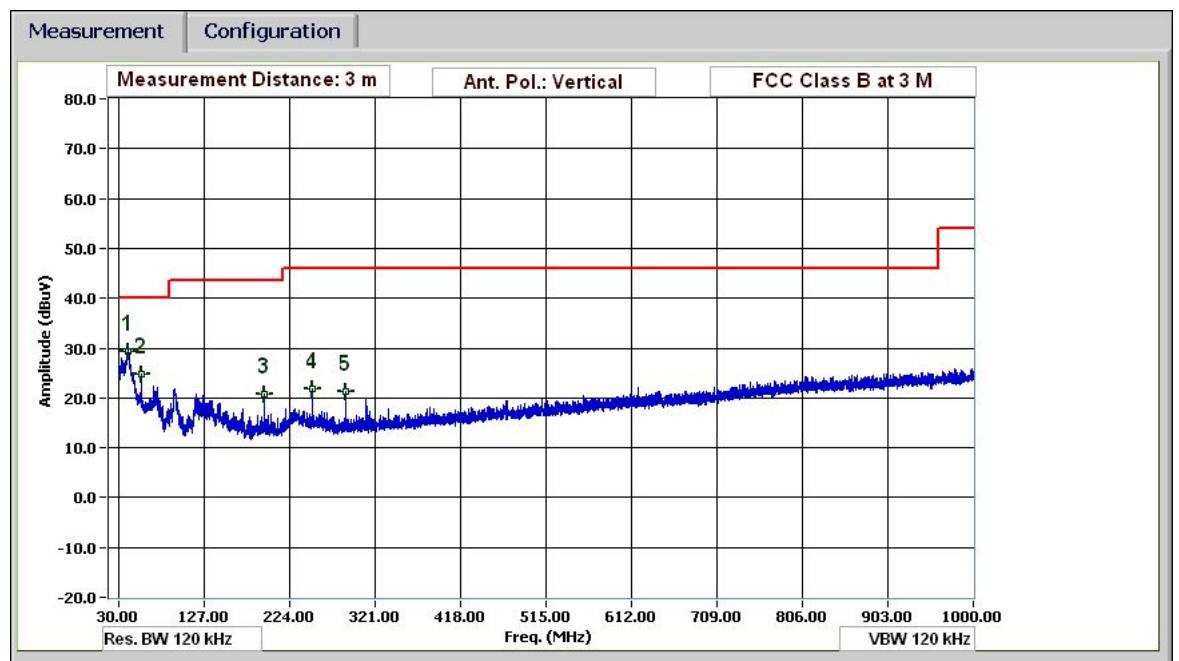
Note: No other emissions were detected above the system noise floor.

EUT WITH 157-10130-00 BATTERY CHARGER

8.4. RADIATED EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



VERTICAL PLOT



TABULATED DATA

30-1000MHz Frequency Measurement

Test Engr: Mengistu Mekuria
Date: 11/01/10
Project #: 10U13357
Company: Palm
Test Target: FCC Class B
Mode Oper: Charging Mode (10130)

| f | Measurement Frequency | Amp | Preamp Gain | Margin | Margin vs. Limit |
|------|-----------------------|--------|------------------------------|--------|------------------|
| Dist | Distance to Antenna | D Corr | Distance Correct to 3 meters | | |
| Read | Analyzer Reading | Filter | Filter Insert Loss | | |
| AF | Antenna Factor | Corr. | Calculated Field Strength | | |
| CL | Cable Loss | Limit | Field Strength Limit | | |

| f MHz | Dist (m) | Read dBuV | AF dB/m | CL dB | Amp dB | D Corr dB | Pad dB | Corr. dBuV/m | Limit dBuV/m | Margin dB | Ant Pol V/H | Det. P/A/QP | Notes |
|----------|-------------|--------------|------------|----------|-----------|--------------|-----------|-----------------|-----------------|--------------|----------------|----------------|-------|
| 31.2 | 3.0 | 32.1 | 19.8 | 0.5 | 29.7 | 0.0 | 0.0 | 22.7 | 40.0 | -17.3 | H | P | |
| 160.085 | 3.0 | 40.9 | 10.8 | 1.2 | 29.3 | 0.0 | 0.0 | 23.6 | 43.5 | -19.9 | H | P | |
| 249.969 | 3.0 | 38.6 | 11.8 | 1.4 | 28.8 | 0.0 | 0.0 | 23.1 | 46.0 | -22.9 | H | P | |
| 287.891 | 3.0 | 37.0 | 12.9 | 1.6 | 28.8 | 0.0 | 0.0 | 22.7 | 46.0 | -23.3 | H | P | |
| 309.972 | 3.0 | 35.6 | 13.5 | 1.6 | 28.8 | 0.0 | 0.0 | 21.8 | 46.0 | -24.2 | H | P | |
| 335.893 | 3.0 | 34.6 | 13.9 | 1.7 | 29.0 | 0.0 | 0.0 | 21.3 | 46.0 | -24.7 | H | P | |
| 40.44 | 3.0 | 44.6 | 13.8 | 0.6 | 29.6 | 0.0 | 0.0 | 29.3 | 40.0 | -10.7 | V | P | |
| 56.041 | 3.0 | 45.8 | 7.9 | 0.6 | 29.6 | 0.0 | 0.0 | 24.7 | 40.0 | -15.3 | V | P | |
| 195.367 | 3.0 | 36.7 | 11.6 | 1.3 | 28.9 | 0.0 | 0.0 | 20.7 | 43.5 | -22.8 | V | P | |
| 249.969 | 3.0 | 37.4 | 11.8 | 1.4 | 28.8 | 0.0 | 0.0 | 21.8 | 46.0 | -24.2 | V | P | |
| 287.771 | 3.0 | 35.7 | 12.9 | 1.6 | 28.8 | 0.0 | 0.0 | 21.4 | 46.0 | -24.6 | V | P | |

Rev. 1.27.09

Note: No other emissions were detected above the system noise floor.

9. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207 (a)
IC RSS-GEN, Section 7.2.2

| Frequency of emission (MHz) | Conducted Limit (dB μ V) | |
|--------------------------------|------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56* | 56 to 46* |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

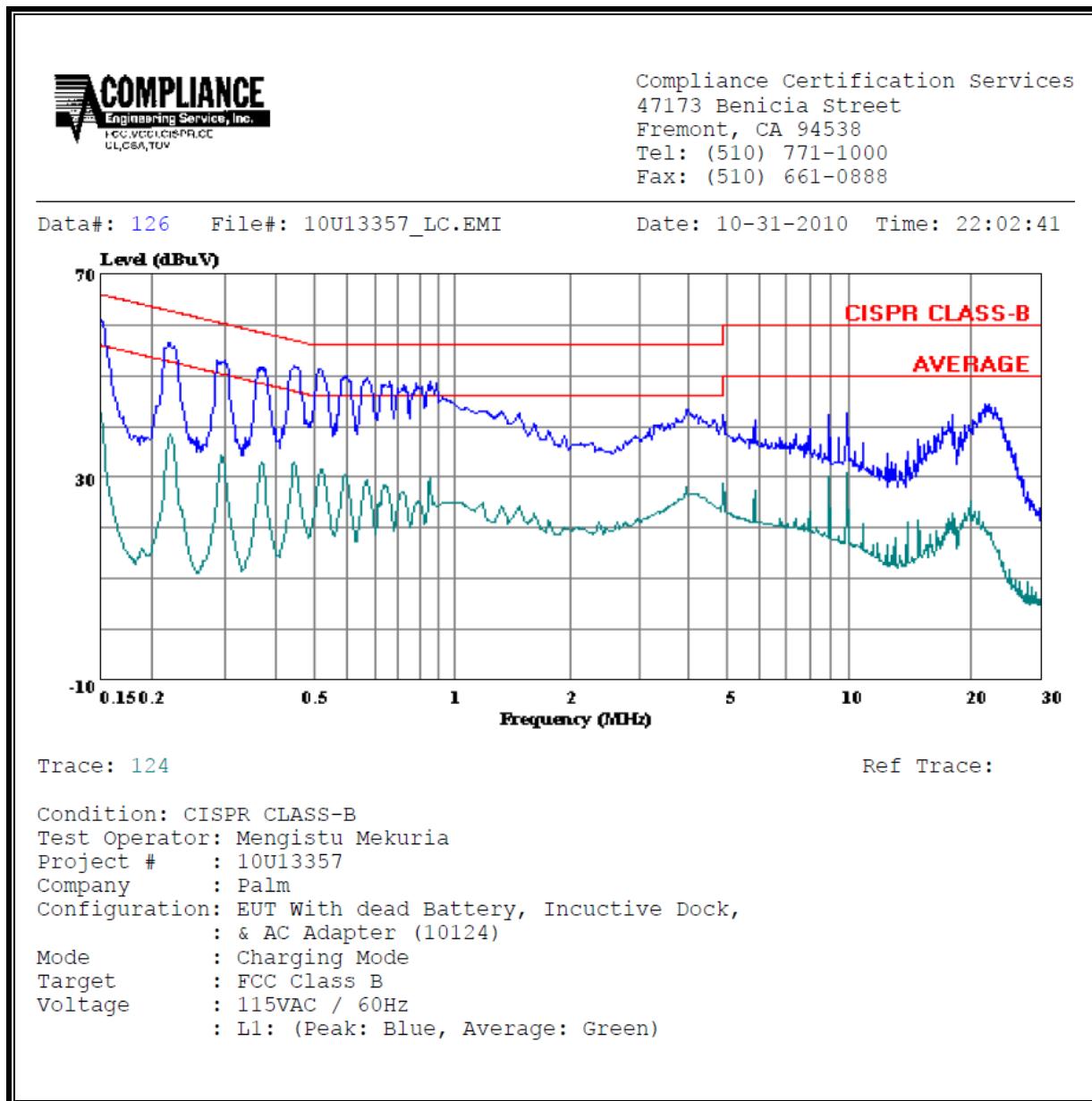
ANSI C63.4

EUT WITH 157-10124-00 BATERY CHARGER

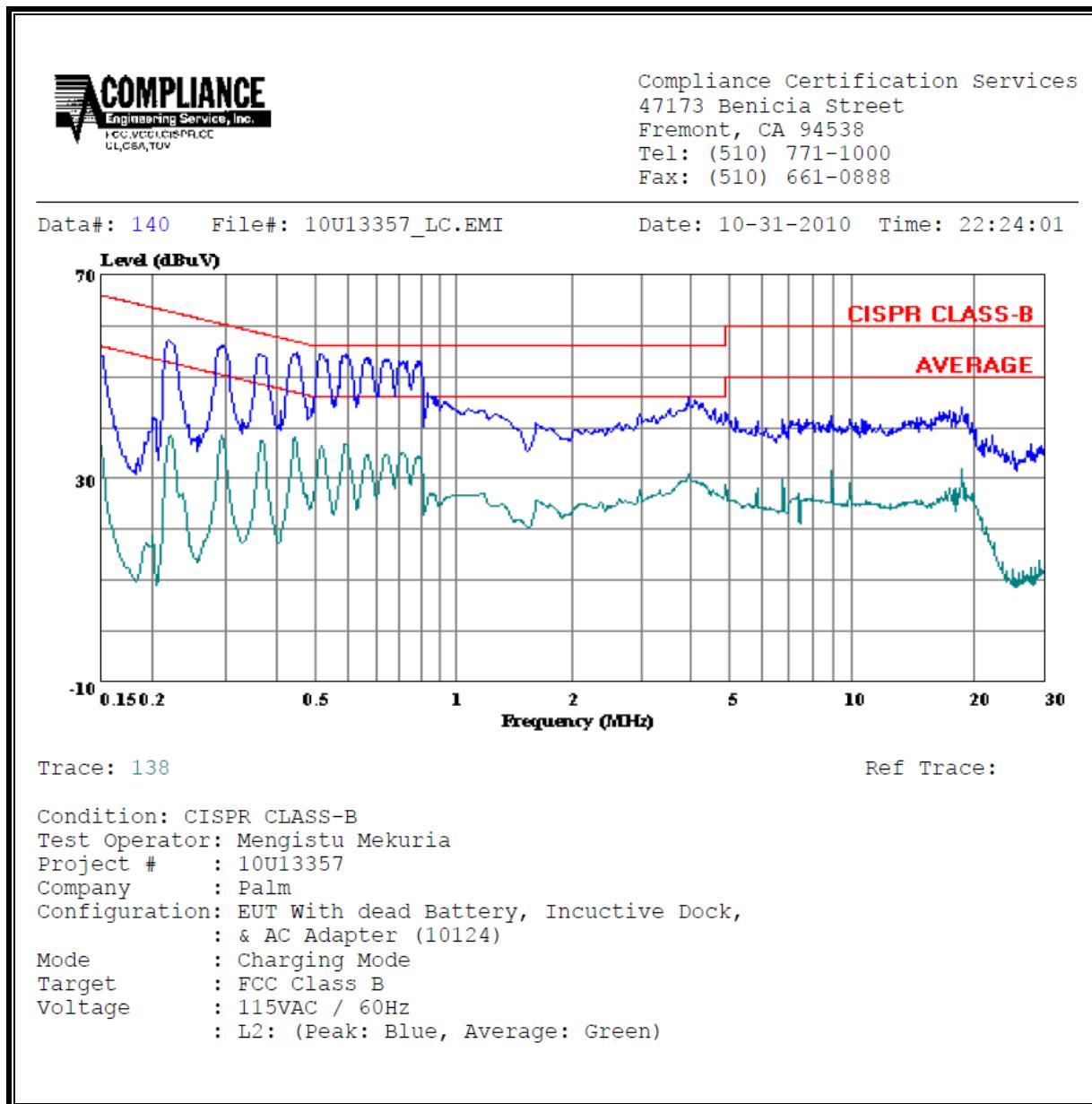
6 WORST EMISSIONS

| CONDUCTED EMISSIONS DATA (115VAC 60Hz) | | | | | | | | | | |
|--|-----------|-----------|-----------|---------------|-------|-------|-------|---------|---------|--------|
| Freq. (MHz) | Reading | | | Closs (dB) | Limit | EN_B | | Margin | | Remark |
| | PK (dBuV) | QP (dBuV) | AV (dBuV) | | | QP | AV | QP (dB) | AV (dB) | |
| 0.45 | 52.00 | -- | 32.86 | 0.00 | 56.93 | 46.93 | -4.93 | -14.07 | L1 | |
| 0.52 | 51.18 | -- | 31.68 | 0.00 | 56.00 | 46.00 | -4.82 | -14.32 | L1 | |
| 0.60 | 50.05 | -- | 30.61 | 0.00 | 56.00 | 46.00 | -5.95 | -15.39 | L1 | |
| 0.51 | 54.41 | -- | 36.24 | 0.00 | 56.00 | 46.00 | -1.59 | -9.76 | L2 | |
| 0.60 | 53.91 | -- | 36.91 | 0.00 | 56.00 | 46.00 | -2.09 | -9.09 | L2 | |
| 0.67 | 53.87 | -- | 34.81 | 0.00 | 56.00 | 46.00 | -2.13 | -11.19 | L2 | |
| 6 Worst Data | | | | | | | | | | |

LINE 1 RESULTS



LINE 2 RESULTS

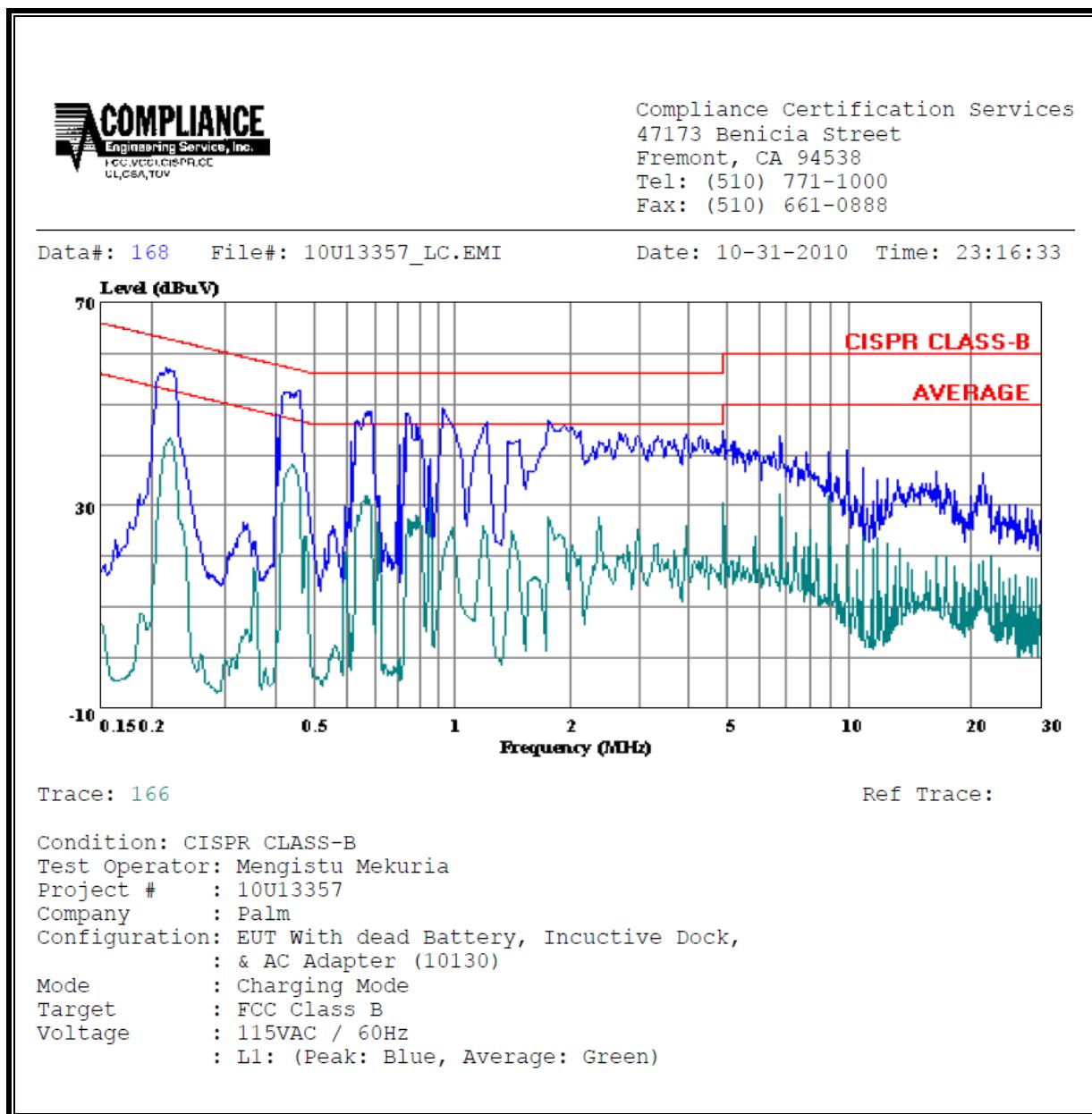


EUT WITH 157-10130-00 BATERY CHARGER

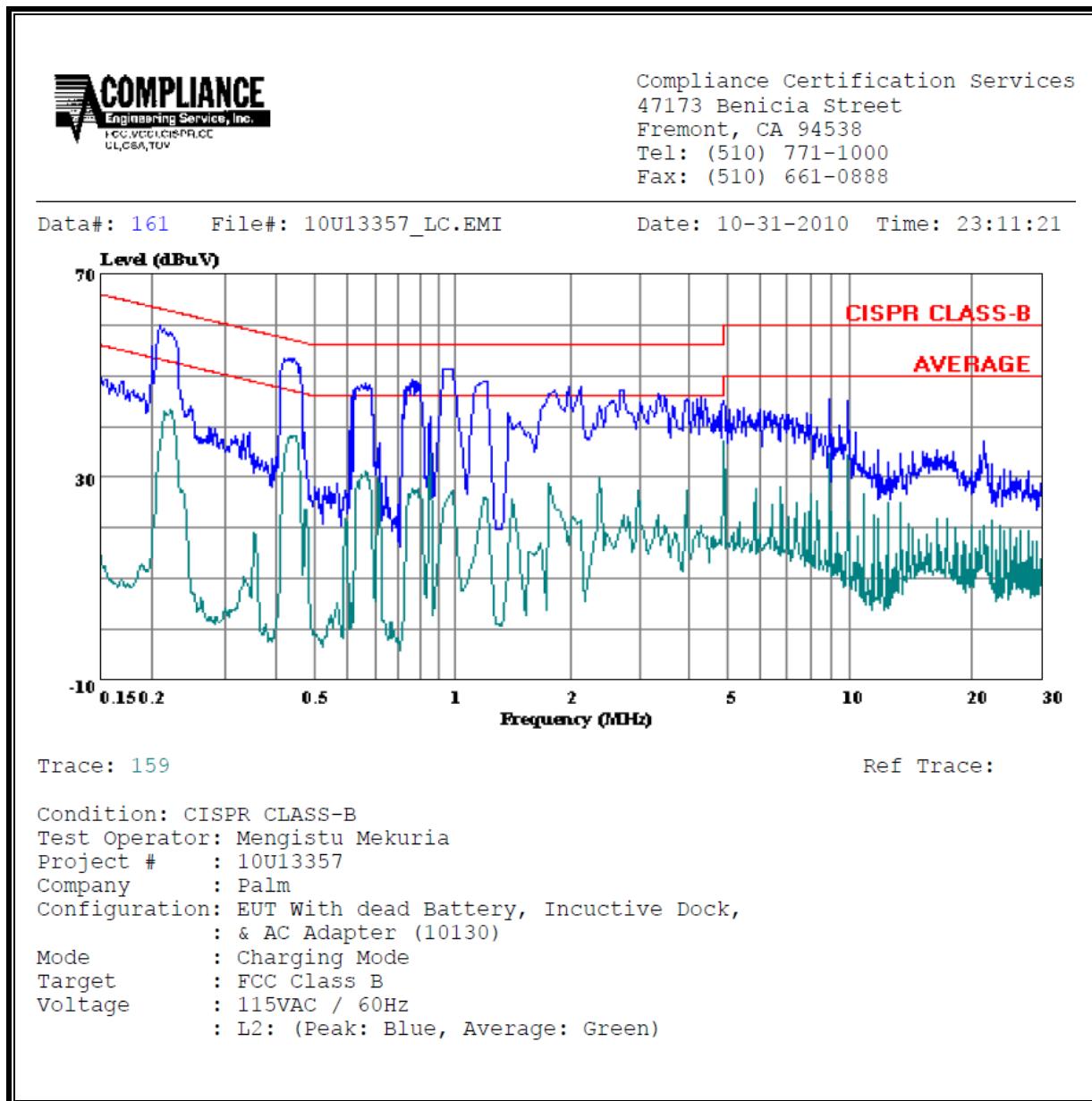
6 WORST EMISSIONS

| CONDUCTED EMISSIONS DATA (115VAC 60Hz) | | | | | | | | | |
|--|-----------|-----------|-----------|---------------|-------------|------------|---------|---------|--------|
| Freq. (MHz) | Reading | | | Closs (dB) | Limit QP | EN_B AV | Margin | | Remark |
| | PK (dBuV) | QP (dBuV) | AV (dBuV) | | | | QP (dB) | AV (dB) | |
| 0.22 | 57.26 | -- | 43.22 | 0.00 | 62.93 | 52.93 | -5.67 | -9.71 | L1 |
| 0.46 | 52.74 | -- | 38.04 | 0.00 | 56.77 | 46.77 | -4.03 | -8.73 | L1 |
| 0.69 | 48.70 | -- | 31.73 | 0.00 | 56.00 | 46.00 | -7.30 | -14.27 | L1 |
| 0.21 | 59.81 | -- | 43.38 | 0.00 | 63.28 | 53.28 | -3.47 | -9.90 | L2 |
| 0.43 | 53.48 | -- | 38.29 | 0.00 | 57.19 | 47.19 | -3.71 | -8.90 | L2 |
| 1.08 | 51.37 | -- | 27.50 | 0.00 | 56.00 | 46.00 | -4.63 | -18.50 | L2 |
| 6 Worst Data | | | | | | | | | |

LINE 1 RESULTS



LINE 2 RESULTS



10. MAXIMUM PERMISSIBLE EXPOSURE

IC RULES

RSS-102 Clause 2.5.2 Exemption from Routine Evaluation Limits – RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and the device is greater than 20 cm, except when the device operates:

- below 1.5 GHz and its e.i.r.p. is equal to or less than 2.5 W;
- at or above 1.5 GHz and the e.i.r.p. of the device is equal to or less than 5 W.

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

RESULTS

The frequency of operation is below 1.5 GHz and the EIRP is less than 2.5 W (33.98 dBm), therefore this device is exempt from Routine Evaluation.

| Frequency (MHz) | Reading A (dBuV) | Measurement Distance A (m) | Field Strength A (dBuV/m) | Antenna Factor (dB/m) | Distance Factor (dB/decade) | Extrapolated Distance (m) | Field Strength at 3 m Distance (dBuV/m) | EIRP (dBm) |
|-----------------|------------------|----------------------------|---------------------------|-----------------------|-----------------------------|---------------------------|---|------------|
| 3.0975 | 38.96 | 1 | 49.16 | 10.20 | 40.00 | 3 | 30.08 | -65.12 |