



# **CERTIFICATION TEST REPORT**

**Report Number. :** 12529284-E1V2

**Applicant :** APPLE, INC.  
ONE APPLE PARK WAY  
CUPERTINO, CA 95014, U.S.A.

**Model :** A2086

**FCC ID :** BCGA2086

**IC :** 579C-A2086

**EUT Description :** MAGNETIC CHARGING DOCK

**Test Standard(s) :** FCC 47 CFR PART 15 SUBPART C  
ISED RSS-216 ISSUE 2

**Date Of Issue:**  
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Revision History

| Rev. | Issue Date | Revisions   | Revised By |
|------|------------|---|------------|
| V1   | 10/23/2018 | Initial Issue   | Tony Li    |
| V2   | 10/24/2018 | Updated report Section 2 and 7 to address TCB's questions | Chin Pang  |

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** APPLE INC.  
ONE APPLE PARK WAY  
CUPERTINO, CA 95014, U.S.A.

**EUT DESCRIPTION:** MAGNETIC CHARGING DOCK

**MODEL:** A2086

**SERIAL NUMBER:** DLC8375002YK18N1P

**DATE TESTED:** SEPTEMBER 27 to SEPTEMBER 28, 2018

| APPLICABLE STANDARDS          |              |
|-------------------------------|--------------|
| STANDARD                      | TEST RESULTS |
| FCC PART 15 SUBPART C         | Complies     |
| ISED RSS-210 Issue 9, Annex B | Complies     |
| ISED RSS-GEN Issue 5          | Complies     |

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. 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 the U.S. government.

Approved & Released For  
UL Verification Services Inc. By:

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UL Verification Services Inc.

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with

- CAN/CSA-CEI/IEC CISPR 11:04 as referenced by ICES-001 Issue 4 as referenced by RSS-216 Issue 2 and/or correspondence with the ISED Canada Certification Bureau
- CISPR 11 Edition 6.1 as referenced by correspondence with the ISED Canada Certification Bureau.
- ANSI C63.10-2013, FCC CFR 47 Part 2, and FCC CFR 47 Part 15. RSS-GEN Issue 5

Specifically:

- CAN/CSA-CEI/IEC CISPR 11:04 Table 3b is applicable for emissions below 30 MHz from Wireless Power Transfer devices
- Radiated tests from 30- 1000 MHz were performed at a 3 meter distance in accordance with CISPR 11 Edition 6.1, with the application of the 3 meter limits as documented in CISPR 11 Edition 6.1 Table 12.

## 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, and 47658 Kato Road, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

| 47173 Benicia Street                                 | 47266 Benicia Street  | 47658 Kato Rd  |
|--|---|--|
| <input type="checkbox"/> Chamber A<br>(ISED:2324B-1) | <input type="checkbox"/> Chamber D<br>(ISED:22541-1)            | <input type="checkbox"/> Chamber I<br>(ISED:2324A-5) |
| <input type="checkbox"/> Chamber B<br>(ISED:2324B-2) | <input checked="" type="checkbox"/> Chamber E<br>(ISED:22541-2) | <input type="checkbox"/> Chamber J<br>(ISED:2324A-6) |
| <input type="checkbox"/> Chamber C<br>(ISED:2324B-3) | <input type="checkbox"/> Chamber F<br>(ISED:22541-3)            | <input type="checkbox"/> Chamber K<br>(ISED:2324A-1) |
|  | <input type="checkbox"/> Chamber G<br>(ISED:22541-4)            | <input type="checkbox"/> Chamber L<br>(ISED:2324A-3) |
|  | <input type="checkbox"/> Chamber H<br>(ISED:22541-5)            |  |

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers above are covered under Industry Canada company address and respective code

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0

## 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

#### **RADIATED EMISSIONS**

Where relevant, the following sample calculation is provided:

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

#### **MAINS CONDUCTED EMISSIONS**

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.  
 $36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

### 4.3. MEASUREMENT UNCERTAINTY

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

| PARAMETER   | UNCERTAINTY |
|---|-------------|
| Worst Case Conducted Disturbance, 9KHz to 0.15 MHz  | 3.84 dB     |
| Worst Case Conducted Disturbance, 0.15 to 30 MHz    | 3.65 dB     |
| Worst Case Radiated Disturbance, 9KHz to 30 MHz     | 3.15 dB     |
| Worst Case Radiated Disturbance, 30 to 1000 MHz     | 5.36 dB     |
| Worst Case Radiated Disturbance, 1000 to 18000 MHz  | 4.32 dB     |
| Worst Case Radiated Disturbance, 18000 to 26000 MHz | 4.45 dB     |
| Worst Case Radiated Disturbance, 26000 to 40000 MHz | 5.24 dB     |

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



## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The EUT is a magnetic charging device which has a single inductive charging coil to charge Apple Watch. The charging frequency is 326.5 kHz, and the maximum power consumption is 5W.

### 5.2. MAXIMUM OUTPUT POWER

The transmitter has maximum peak radiated electric and magnetic field strength as follows:

| Fundamental Frequency<br>(KHz) | Mode      | E field<br>(300m distance)<br>FCC (dBuV/m) | H field<br>(3m distance)<br>IC (dBuA/m) |
|--------------------------------|-----------|--|---|
| 326.5                          | Standby   | -25.78                                     | 10.49                                   |
| 326.5                          | Operating | -24.88                                     | 4.61                                    |

### 5.3. SOFTWARE AND FIRMWARE

The firmware version installed in the EUT during testing was 9.1.0

### 5.4. WORST-CASE CONFIGURATION AND MODE

The EUT is a single frequency magnetic charger enclosed in a plastic case. For the entire radiated emissions test, the EUT was examining on the following configuration.

| Config | Mode      | Descriptions                           |
|--------|-----------|--|
| 1      | Standby   | EUT Alone powered by AC/DC adapter     |
| 2      | Operating | EUT and Watch powered by AC/DC adapter |

For AC line conducted emission, test was investigated with the following configurations.

| Config | Mode      | Descriptions                           |
|--------|-----------|--|
| 1      | Standby   | EUT Alone powered by AC/DC adapter     |
| 2      | Operating | EUT and Watch powered by AC/DC adapter |
| 3      | Standby   | EUT Alone powered by laptop            |
| 4      | Operating | EUT and Watch powered by laptop        |

The EUT was investigated in two orthogonal orientations X (flatbed) and Y (tilt). For below 30MHz & 1GHz tests, the EUT was connected to an AC power adapter as the worst case.

EUT was tested as standby and operation modes. For worst case operational mode, EUT was tested with two different sizes of watches, small and big of having similar mechanical structure.

For all radiated emissions tests, both small and big watches were investigated and no significant different were observed between both watches. However, the big watch was chosen to test as the worst case condition since it has max overall load, hence all final data for operational mode represents EUT with the big watch. During the charging process, the watch actively indicates the status of the charging process. Device being charged was at a state of 20 – 50% charged.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel); parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 300 m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788 D01.

## 5.5. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

| Support Equipment List |              |             |                   |           |
|------------------------|--------------|-------------|-------------------|-----------|
| Description            | Manufacturer | Model       | Serial Number     | FCC ID    |
| AC/DC adapter          | Apple        | A1385       | N/A               | N/A       |
| Watch                  | Apple        | A1978       | D92X300KTKH       | BCG-A1978 |
| Laptop                 | Apple        | MacBook Pro | C02WW05BKGHJ      | FCC DoC   |
| Laptop Adapter         | Apple        | A1718       | C4H7366020UGN8RA4 | N/A       |

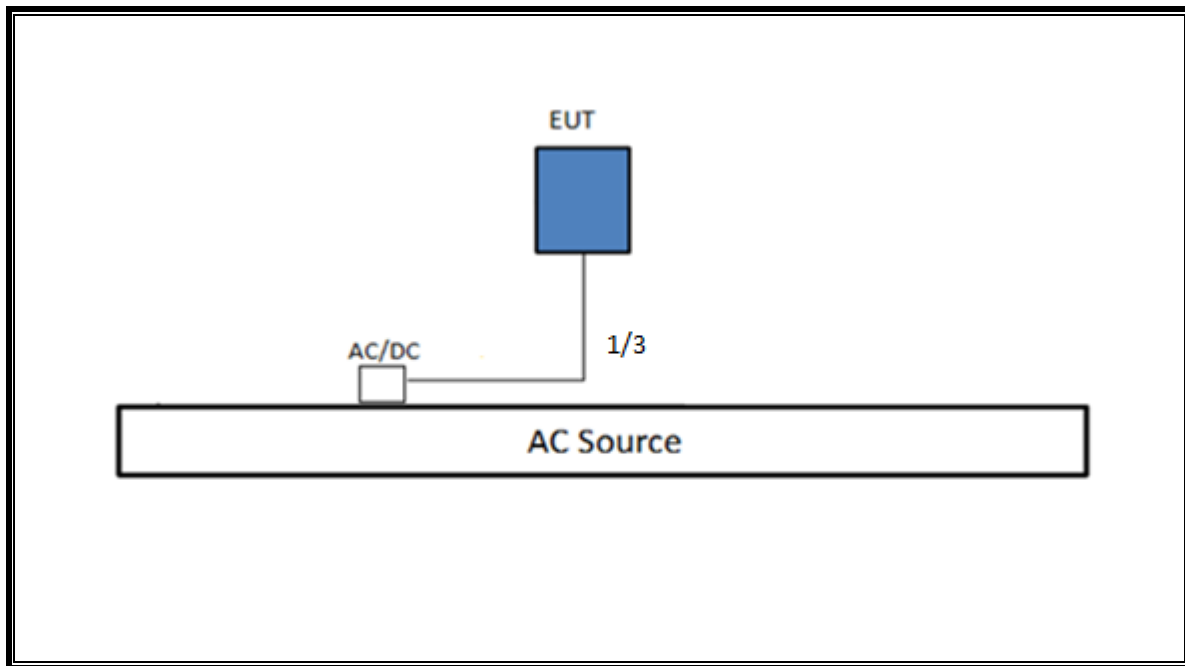
### I/O CABLES

| Cable No | Port | # of identical ports | Connector Type | Cable Type  | Cable Length (m) | Remarks          |
|----------|------|----------------------|----------------|-------------|------------------|------------------|
| 1        | DC   | 1                    | USB            | Un-shielded | 1                | 5W Power Supply  |
| 2        | DC   | 1                    | Magnetic 5 pin | Un-shielded | 2                | 61W Power Supply |

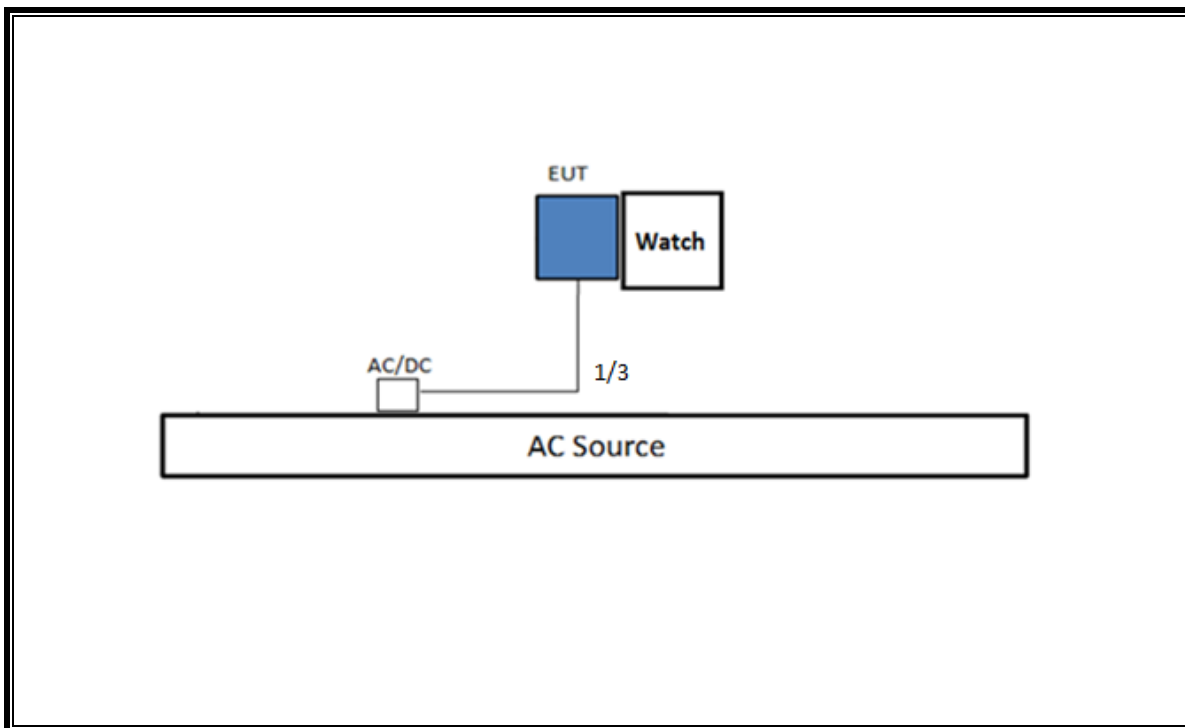
### TEST SETUP

Please see the following configurations for the test setups. Configurations 1 and 2 indicate that the EUT is directly connected to an AC/DC adapter via USB cable. Configurations 3 and 4 indicate that the EUT is directly connected to a Host PC via USB cable.

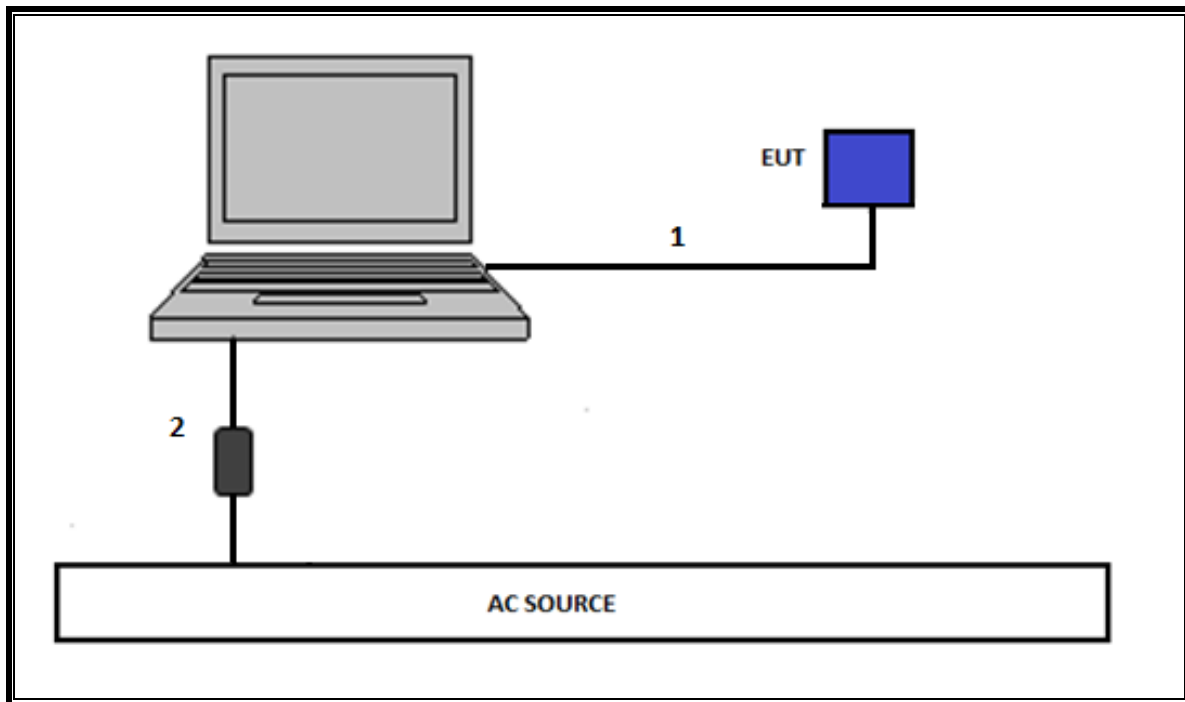
**CONFIGURATION 1: STANDBY MODE**



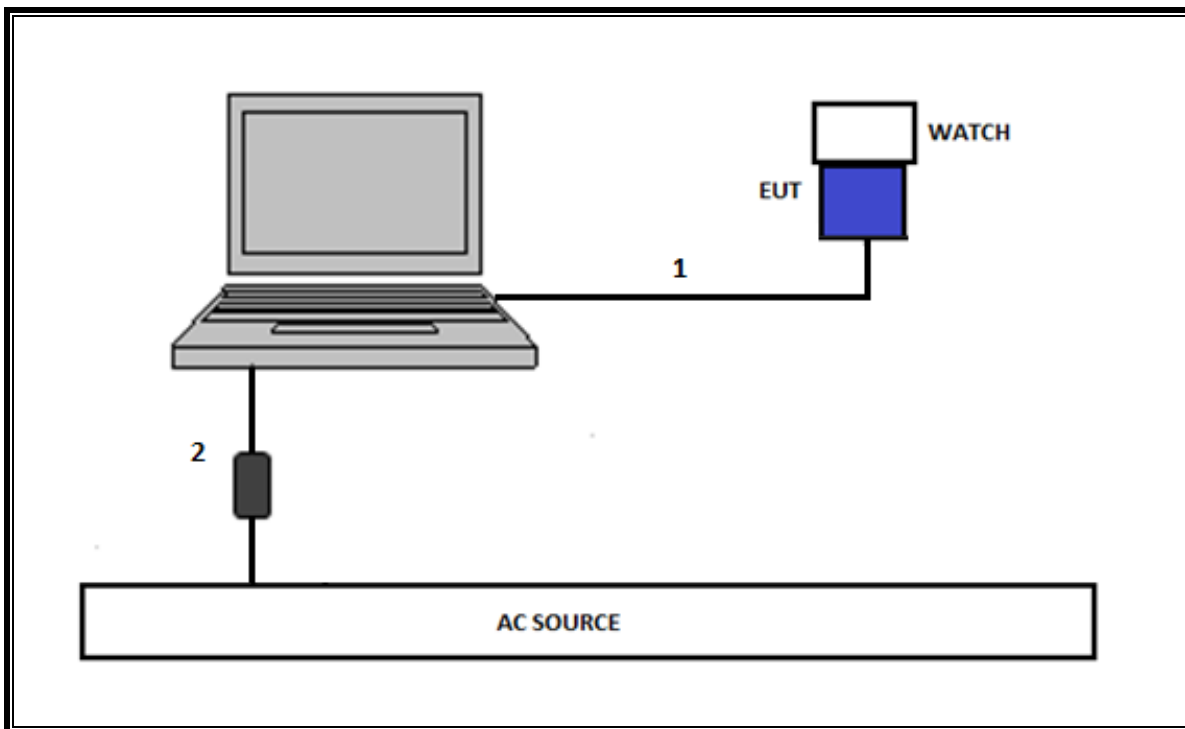
**CONFIGURATION 2: OPERATING MODE WITH WATCH**



**CONFIGURATION 3: STANDBY MODE BY HOST PC VIA USB CABLE**



**CONFIGURATION 4: OPERATING MODE WITH WATCH BY HOST PC VIA USB CABLE**



## 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                | ID Num | Cal Due    |
| Antenna, Broadband Hybrid, 30MHz to 2000MHz | Sunol Sciences Corp.            | JB3                  | T899   | 07/24/2019 |
| Amplifier, 10KHz to 1GHz, 32dB              | Sonoma Instrument Co.           | 310N                 | T285   | 07/06/2019 |
| Spectrum Analyzer, PXA, 3Hz to 44GHz        | Agilent (Keysight) Technologies | N9030A               | T907   | 02/07/2019 |
| Thermometer                                 | Control Company                 | 14-650-118, 15557603 | T1816  | 01/11/2019 |
| Antenna, Active Loop 9kHz-30MHz             | ETS-Lindgren                    | 6502                 | T1616  | 09/14/2019 |
| Sniffer Probes                              | Electro Metrics                 | EM-6992              | N/A    | N/A        |
| AC Line Conducted                           |                                 |                      |        |            |
| EMI Test Receiver 9KHz-7GHz                 | Rohde & Schwarz                 | ESCI7                | T1436  | 01/25/2019 |
| LISN for Conducted Emissions CISPR-16       | Fischer                         | 50/250-25-2-01       | T1310  | 06/19/2019 |

| UL SOFTWARE                |    |        |                          |
|----------------------------|----|--------|--------------------------|
| Radiated Software          | UL | UL EMC | Ver. 9.5, April 26, 2016 |
| AC Line Conducted Software | UL | UL EMC | Ver 9.5, May 26, 2015    |

## 7. OCCUPIED BANDWIDTH

### TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 200Hz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

Note that when the EUT was in standby mode the only signal that comes out from the EUT was the intentional charging signal of 326.5kHz. On the other hand, when the EUT was in operational mode there were two signals. One of the intentional charging signal of 326.5kHz and the other one the control signal of 340kHz that controls the communication/charging status between EUT and the client device-the watch.

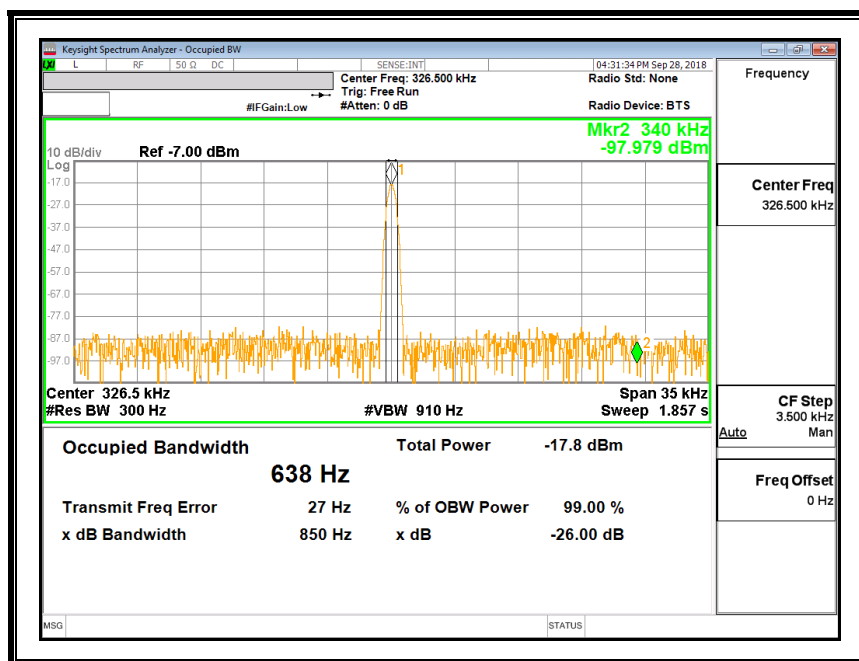
### EUT SETUP

1. Charger in standby mode, transmitting low duty cycle CW signal at 326.5kHz test.
2. Charger in pairing mode with FSK modulation (-0/+15 kHz) which occurs over a very short period of time as soon as the watch is placed on the charger.
3. Charger in charging mode with CW signal and duty cycle varied to control charge level via load modulation from watch.

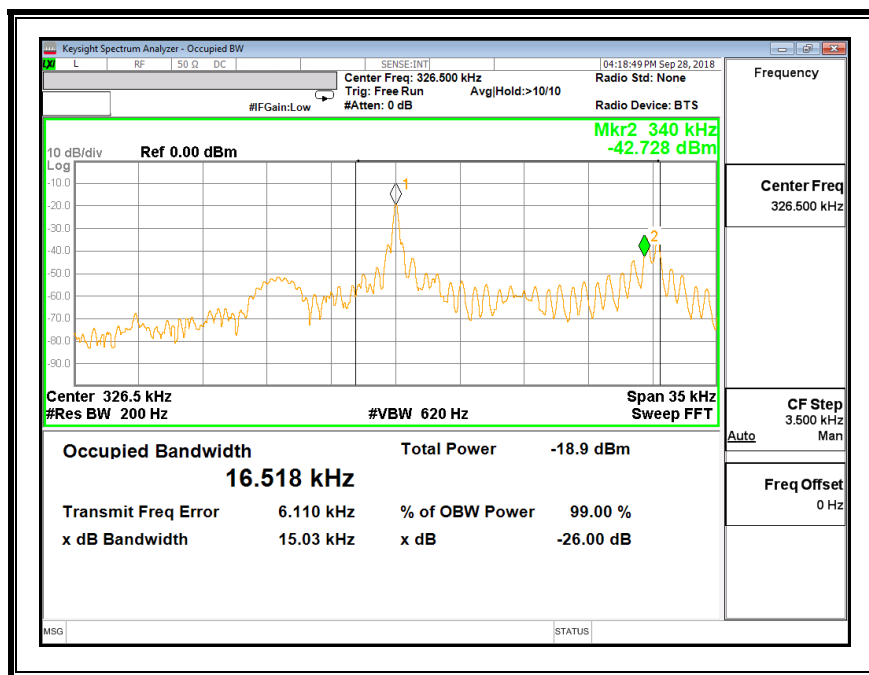
### RESULTS

|            |       |              |            |
|------------|-------|--------------|------------|
| <b>ID:</b> | 38602 | <b>Date:</b> | 09/28/2018 |
|------------|-------|--------------|------------|

### 7.1.1. Standby Mode

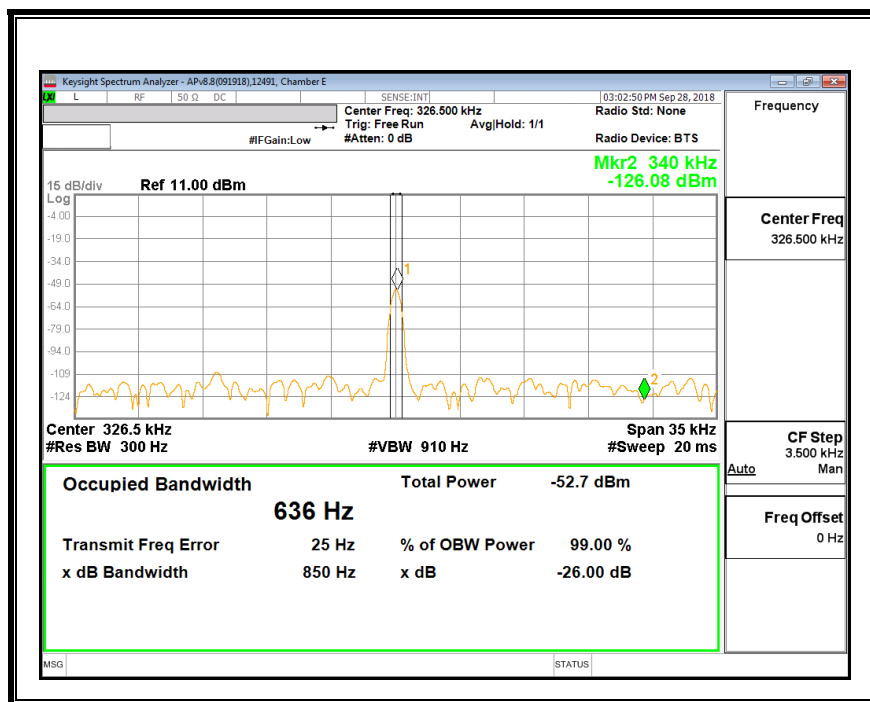


### 7.1.2. Charger in Pairing mode





### 7.1.3. Charger in Charging mode



## 8. RADIATED EMISSION TEST RESULTS

### 8.1. LIMITS AND PROCEDURE

#### LIMIT

FCC §15.209 (a)

ICES-001 Section 6.2, IC RSS-216 6.2.2, and IC RSS-GEN Sections 8.9 and 8.10.

| 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. |                                   |                          |

#### CISPR 11:04

Table 3b

| Frequency range (MHz)  | Limits in dB(μA/m) at 3 m distance<br>Quasi-peak                   |
|--|--|
| 0,009 to 0,070   | 69   |
| 0,070 to 0,1485  | 69<br>Decreasing linearly with the logarithm of frequency to<br>39 |
| 0,1485 to 4,0  | 39<br>Decreasing linearly with the logarithm of frequency to<br>3  |
| 4,0 to 30  | 3  |
| NOTE The limits of Table 3b apply to induction cooking appliances for commercial use and those for domestic use with a diagonal diameter of more than 1,6 m. Measurements are performed at 3 m distance with a 0,6 m loop antenna as described in 5.5.2.1 of CISPR 16-1. The antenna shall be vertically installed, with the lower edge of the loop at 1 m height above the floor. |  |

### **FCC LIMIT**

| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |
|-----------------------|------------------------------------|--------------------------------------|
| 0.009-0.490           | 2400/F(kHz) @ 300 m                | -                                    |
| 0.490-1.705           | 24000/F(kHz) @ 30 m                | -                                    |
| 1.705 - 30            | 30 @ 30m                           | -                                    |
| 30 - 88               | 100                                | 40                                   |
| 88 - 216              | 150                                | 43.5                                 |
| 216 - 960             | 200                                | 46                                   |
| Above 960             | 500                                | 54                                   |

### **ISED LIMIT**

CISPR 11 Edition 6.1, Table 12 (excerpted portion below is applicable to 30-1000 MHz range) can be applied as long as the EUT complies with the size restrictions of CISPR 11 Edition 6.1, Clause 3.1.7 **small size equipment**; equipment, either positioned on a table top or standing on the floor which, including its cables fits in an imaginary cylindrical test volume of 1,2 m in diameter and 1,5 m height (to ground plane)

| Electromagnetic radiation disturbance limits for class B group 2 equipment at measuring distance of 3 m |                            |                                      |                            |
|---|----------------------------|--------------------------------------|----------------------------|
| Frequency range (MHz)   | Electric Field             |                                      | Magnetic Field             |
|   | Quasi-peak limits (dBµV/m) | Average limits <sup>a</sup> (dBµV/m) | Quasi-peak limits dB(µA/m) |
| 30 – 80.872   | 40                         | 35                                   | -                          |
| 80.872 – 81,848   | 60                         | 55                                   | -                          |
| 81,848 – 134,786  | 40                         | 35                                   | -                          |
| 134,786 – 136,414   | 60                         | 55                                   | -                          |
| 136,414 – 230   | 40                         | 35                                   | -                          |
| 230 – 1 000   | 47                         | 42                                   | -                          |

Note: The lower limit shall apply at the transition frequency

<sup>a</sup> The average limits apply to magnetron driven equipment and microwave ovens only. If magnetron driven equipment or microwave ovens exceed the quasi-peak limit at certain frequencies, then the measurement shall be repeated at these frequencies with the average detector and the average limits specified in this table apply.

### **TEST PROCEDURE**

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

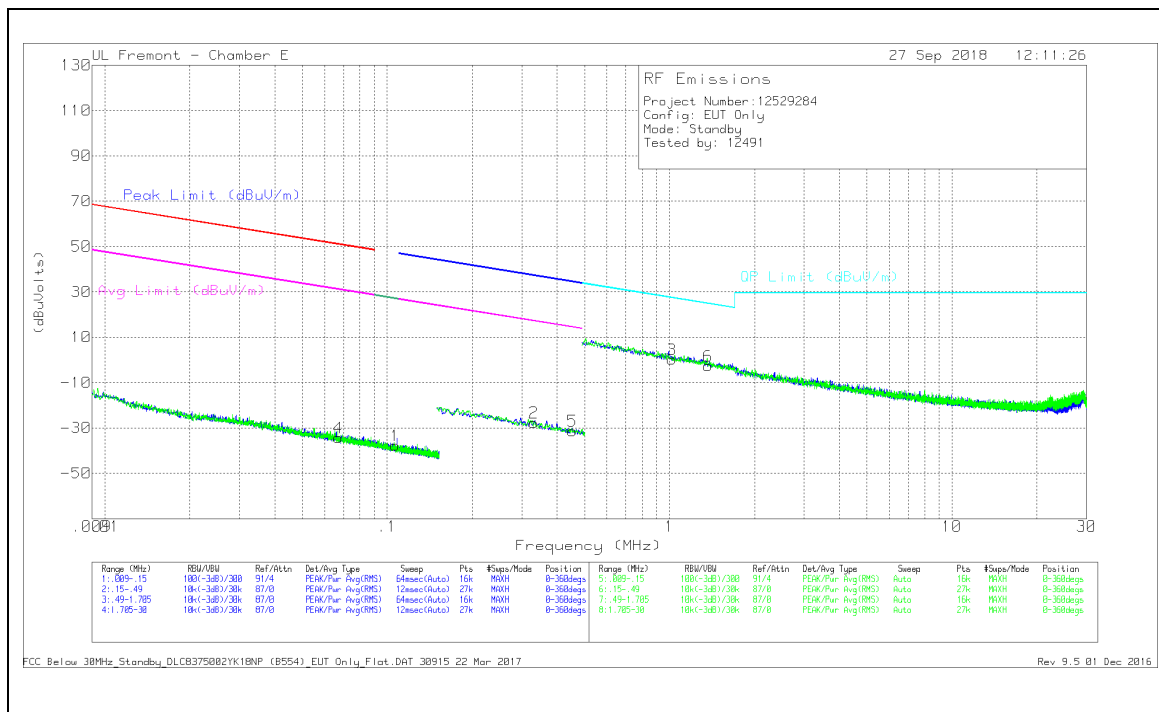
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

## RESULTS

### 8.2. FLATBED ORIENTATION

#### 8.2.1. STANDBY CONFIGURATION

#### FCC TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



## DATA

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna (dB/m) | Cables (dB) | Dist Corr 300m | Corrected Reading (dBuV/olts) | Peak Limit (dBuV/m) | Margin (dB) | Avg Limit (dBuV/m) | Margin (dB) | QP Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|---------------------|-------------|----------------|-------------------------------|---------------------|-------------|--------------------|-------------|-------------------|-------------|----------------|
| 4      | .06712          | 33.96                | Pk  | 11.6                | .1          | -80            | -34.34                        | 51.05               | -85.39      | 31.05              | -65.39      | -                 | -           | 0-360          |
| 1      | .10687          | 31.11                | Pk  | 11.1                | .1          | -80            | -37.69                        | -                   | -           | -                  | -           | 27.04             | -64.73      | 0-360          |
| 2      | .33022          | 41.36                | Pk  | 10.9                | .1          | -80            | -27.64                        | 37.23               | -64.87      | 17.23              | -44.87      | -                 | -           | 0-360          |
| 5      | .45278          | 37.58                | Pk  | 11                  | .1          | -80            | -31.32                        | 34.49               | -65.81      | 14.49              | -45.81      | -                 | -           | 0-360          |

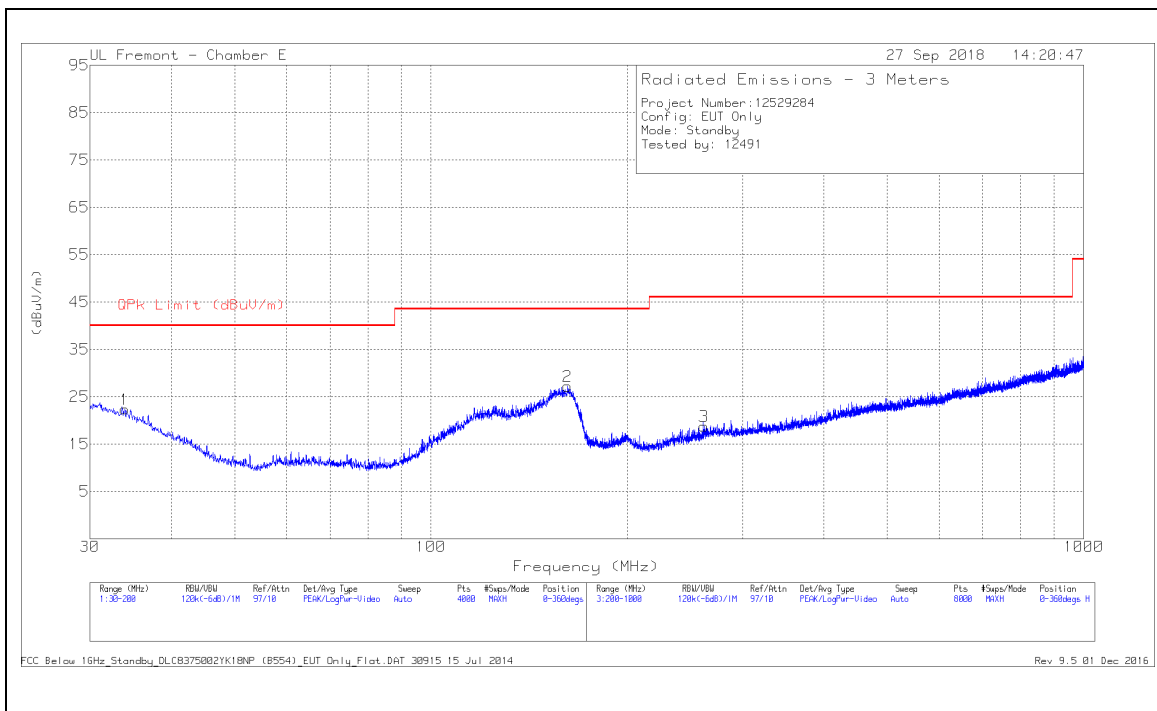
#### Pk - Peak detector

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna (dB/m) | Cables (dB) | Dist Corr (dB) 40Log | Corrected Reading (dBuVolts) | QP Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|---------------------|-------------|----------------------|------------------------------|-------------------|-------------|----------------|
| 3      | 1.01774         | 28.67                | Pk  | 11.3                | .2          | -40                  | .17                          | 27.47             | -27.3       | 0-360          |
| 6      | 1.36833         | 25.87                | Pk  | 11.3                | .2          | -40                  | -2.63                        | 24.91             | -27.54      | 0-360          |

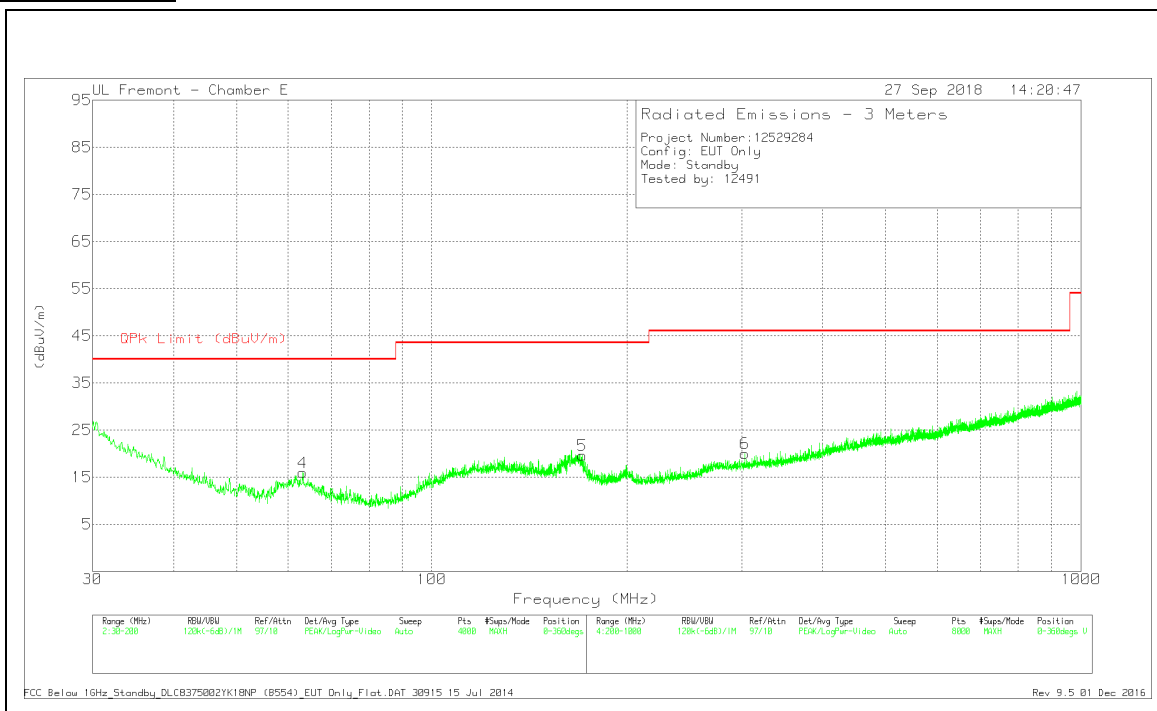
#### Pk - Peak detector

## FCC SPURIOUS EMISSION 30 To 1000 MHz

### HORIZONTAL PLOT



### VERTICAL PLOT



## DATA

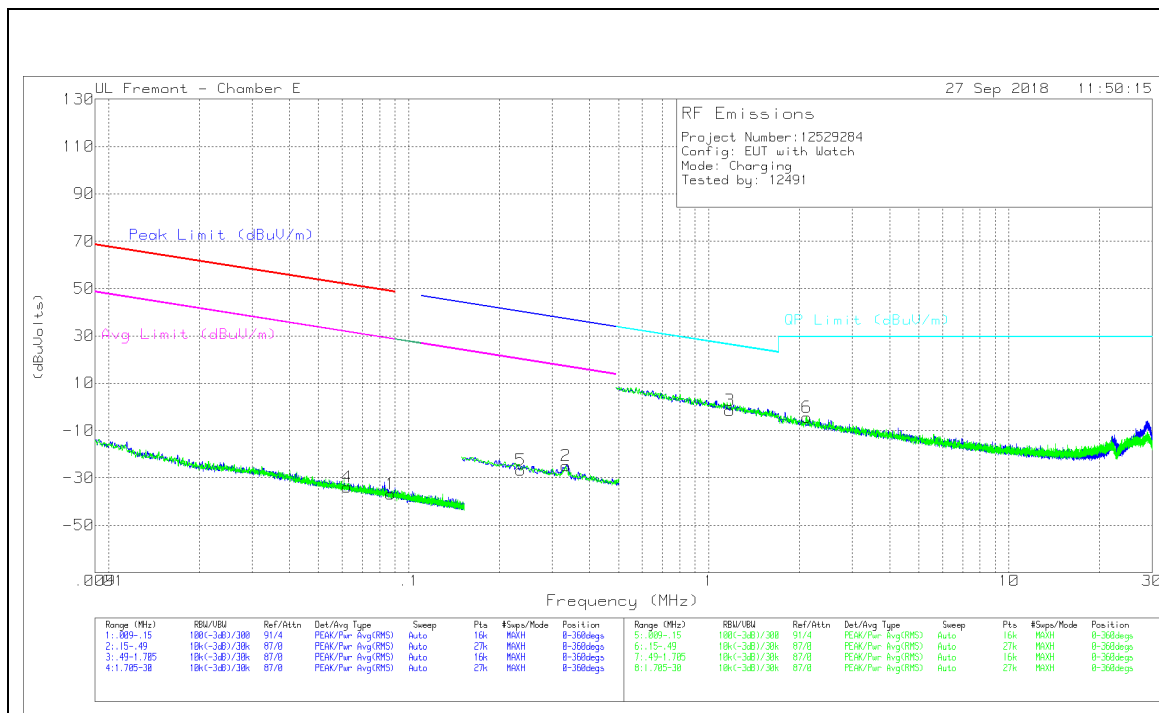
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T899 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 5      | * 170.6264      | 31.82                | Pk  | 17.9           | -30.1        | 19.62                      | 43.52              | -23.9       | 0-360          | 100         | V        |
| 3      | * 261.908       | 30.04                | Pk  | 18.3           | -29.6        | 18.74                      | 46.02              | -27.28      | 0-360          | 100         | H        |
| 1      | 33.9535         | 29.72                | Pk  | 24.1           | -31.5        | 22.32                      | 40                 | -17.68      | 0-360          | 299         | H        |
| 4      | 63.2861         | 32.86                | Pk  | 14.2           | -31.1        | 15.96                      | 40                 | -24.04      | 0-360          | 100         | V        |
| 2      | 161.9541        | 39.38                | Pk  | 18.1           | -30.3        | 27.18                      | 43.52              | -16.34      | 0-360          | 199         | H        |
| 6      | 303.4134        | 29.93                | Pk  | 19.4           | -29.3        | 20.03                      | 46.02              | -25.99      | 0-360          | 200         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

## 8.2.3. OPERATING WITH WATCH

### FCC FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



### DATA

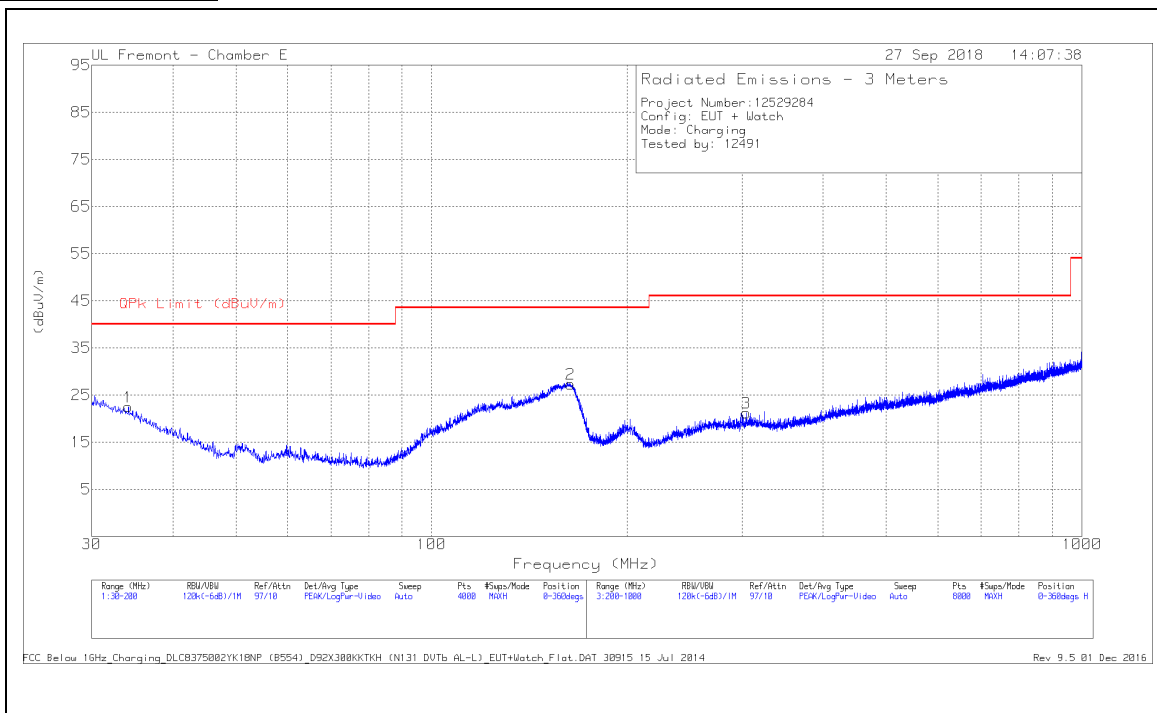
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna (dB/m) | Cables (dB) | Dist Corr 300m | Corrected Reading (dBuVolts) | Peak Limit (dBuV/m) | Margin (dB) | Avg Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|---------------------|-------------|----------------|------------------------------|---------------------|-------------|--------------------|-------------|----------------|
| 4      | .06215          | 34.32                | Pk  | 11.7                | .1          | -80            | -33.88                       | 51.72               | -85.6       | 31.72              | -65.6       | 0-360          |
| 1      | .08683          | 31.5                 | Pk  | 11.5                | .1          | -80            | -36.9                        | 48.81               | -85.71      | 28.81              | -65.71      | 0-360          |
| 5      | .23602          | 42.25                | Pk  | 11                  | .1          | -80            | -26.65                       | 40.16               | -66.81      | 20.16              | -46.81      | 0-360          |
| 2      | .33422          | 44.12                | Pk  | 10.9                | .1          | -80            | -24.88                       | 37.13               | -62.01      | 17.13              | -42.01      | 0-360          |

#### Pk - Peak detector

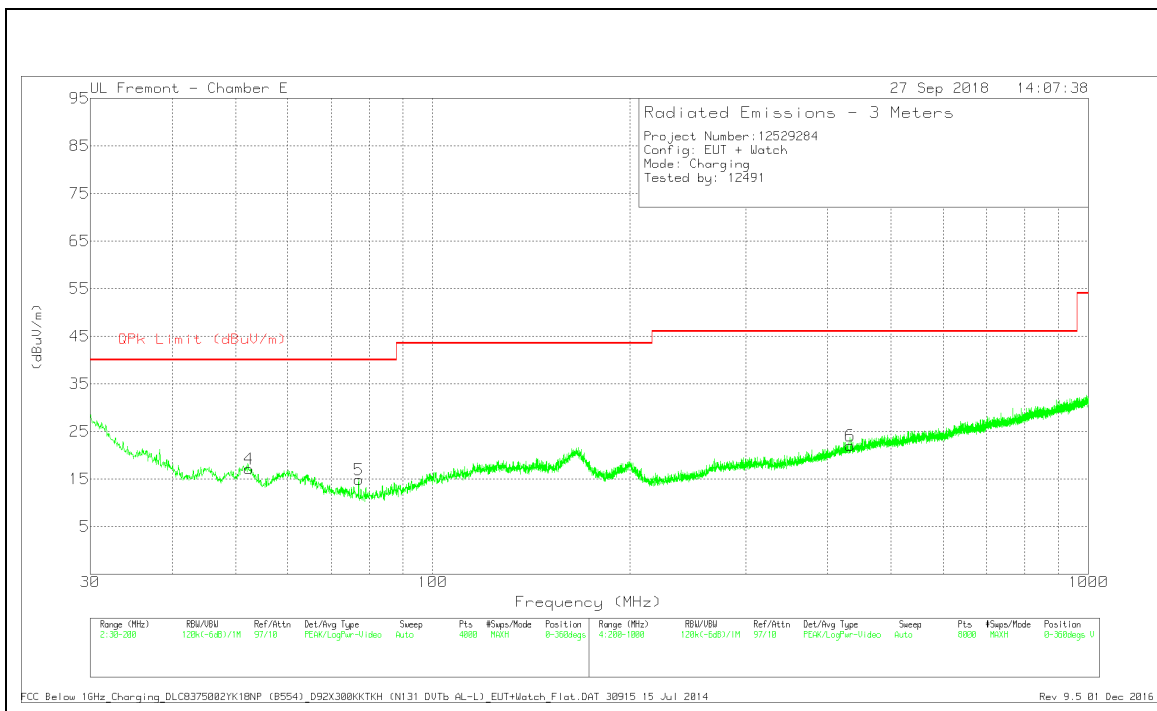
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna (dB/m) | Cables (dB) | Dist Corr (dB) 40Log | Corrected Reading (dBuVolts) | QP Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|---------------------|-------------|----------------------|------------------------------|-------------------|-------------|----------------|
| 3      | 1.17366         | 27.13                | Pk  | 11.3                | .2          | -40                  | -1.37                        | 26.23             | -27.6       | 0-360          |
| 6      | 2.12106         | 23.98                | Pk  | 11.4                | .3          | -40                  | -4.32                        | 29.5              | -33.82      | 0-360          |

#### Pk - Peak detector

## HORIZONTAL PLOT



## VERTICAL PLOT





## DATA

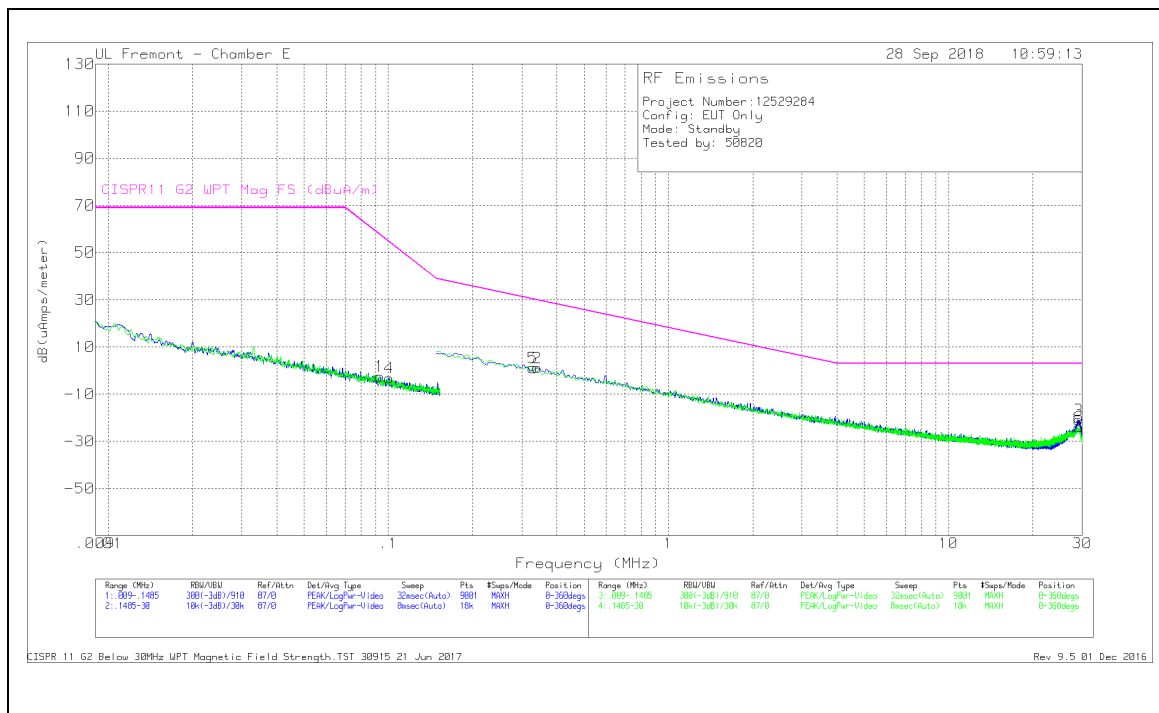
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T899 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 2      | * 163.6546      | 39.39                | Pk  | 18.1           | -30.2        | 27.29                      | 43.52              | -16.23      | 0-360          | 200         | H        |
| 1      | 34.1661         | 29.97                | Pk  | 24             | -31.5        | 22.47                      | 40                 | -17.53      | 0-360          | 399         | H        |
| 4      | 52.4458         | 34.94                | Pk  | 13.5           | -31.3        | 17.14                      | 40                 | -22.86      | 0-360          | 100         | V        |
| 5      | 77.0597         | 32.37                | Pk  | 13.5           | -31          | 14.87                      | 40                 | -25.13      | 0-360          | 100         | V        |
| 3      | 304.8136        | 30.98                | Pk  | 19.4           | -29.2        | 21.18                      | 46.02              | -24.84      | 0-360          | 100         | H        |
| 6      | 433.2303        | 28.02                | Pk  | 22.4           | -28.4        | 22.02                      | 46.02              | -24         | 0-360          | 200         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

## 8.2.4. STANDBY CONFIGURATION, IC / CISPR 11

### TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



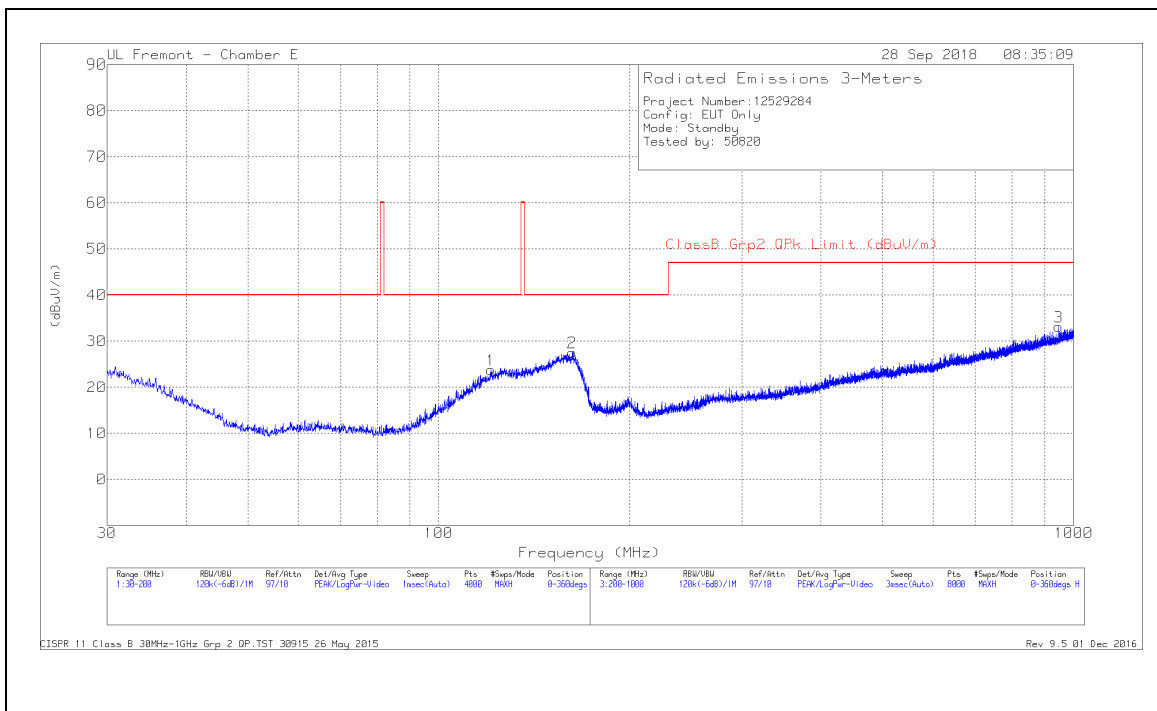
### DATA

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna (dB/m) | Cables (dB) | Corrected Reading dB(uAmps/meter) | CISPR11 G2 WPT Mag FS (dBuA/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|---------------------|-------------|-----------------------------------|--------------------------------|-------------|----------------|
| 1      | *.09343         | 37.21                | Pk  | -39.7               | .1          | -2.39                             | 57.48                          | -59.87      | 0-360          |
| 4      | *.10088         | 36.83                | Pk  | -40                 | .1          | -3.07                             | 54.42                          | -57.49      | 0-360          |
| 5      | .32839          | 41.61                | Pk  | -40.5               | .1          | 1.21                              | 30.33                          | -29.12      | 0-360          |
| 2      | .34083          | 41.63                | Pk  | -40.5               | .1          | 1.23                              | 29.92                          | -28.69      | 0-360          |
| 3      | 29.11791        | 21.09                | Pk  | -43                 | 1           | -20.91                            | 3                              | -23.91      | 0-360          |
| 6      | 29.2091         | 18.17                | Pk  | -43                 | 1           | -23.83                            | 3                              | -26.83      | 0-360          |

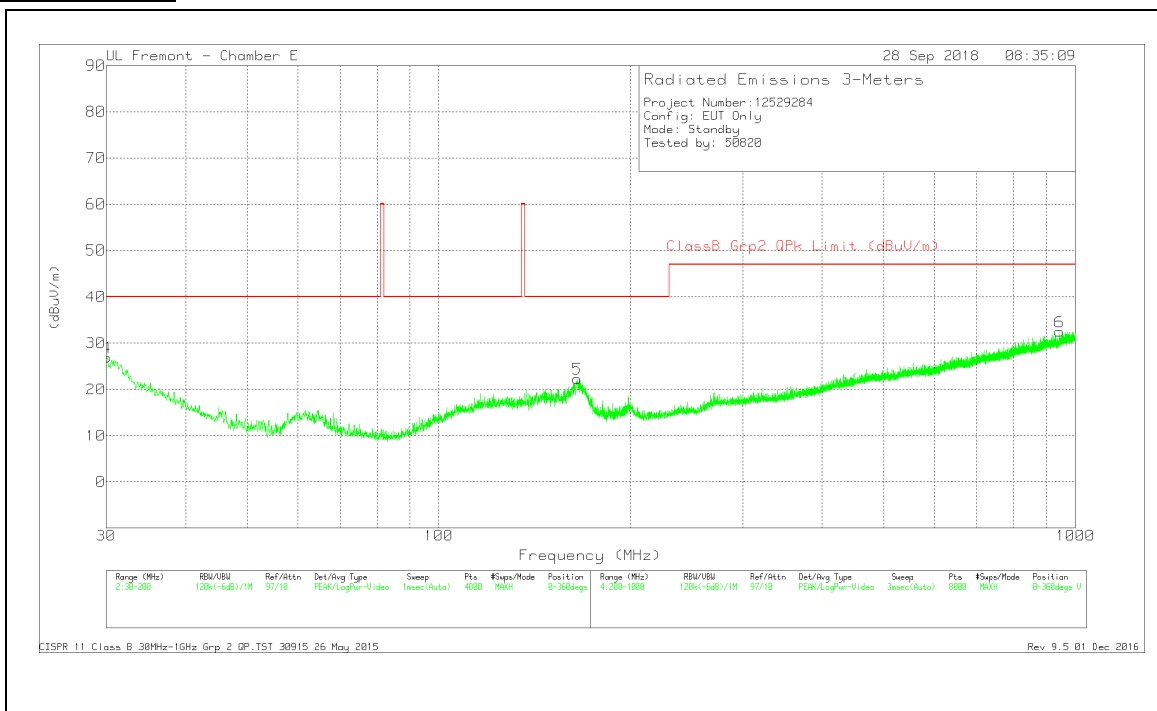
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector

## IC / CISPR 11 TX SPURIOUS EMISSION 30 To 1000 MHz

### HORIZONTAL PLOT



### VERTICAL PLOT



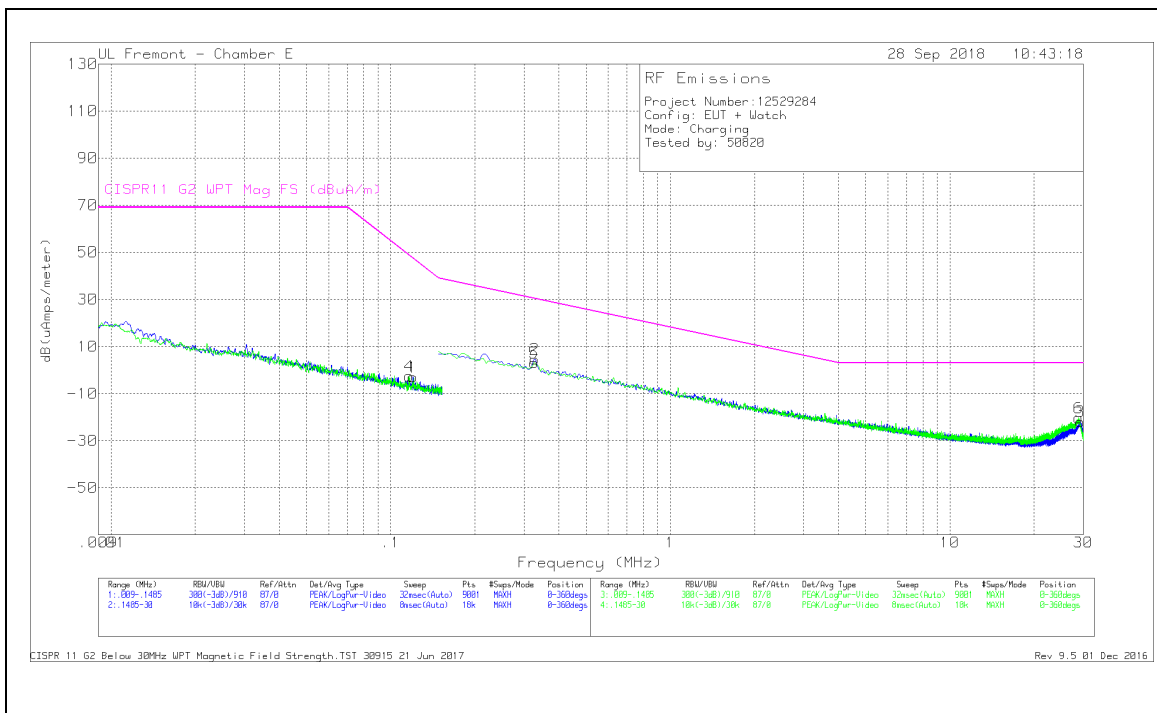
**DATA**

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T899 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | ClassB Grp2 QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|--------------------------------|-------------|----------------|-------------|----------|
| 4      | 30.0425         | 31.81                | Pk  | 26.7           | -31.6        | 26.91                      | 40                             | -13.09      | 0-360          | 100         | V        |
| 1      | 120.8248        | 34.35                | Pk  | 20             | -30.6        | 23.75                      | 40                             | -16.25      | 0-360          | 300         | H        |
| 2      | 162.1029        | 39.76                | Pk  | 18.1           | -30.3        | 27.56                      | 40                             | -12.44      | 0-360          | 199         | H        |
| 5      | 164.8024        | 34.42                | Pk  | 18.1           | -30.2        | 22.32                      | 40                             | -17.68      | 0-360          | 100         | V        |
| 6      | 944.0967        | 29.23                | Pk  | 28.5           | -25.2        | 32.53                      | 47                             | -14.47      | 0-360          | 200         | V        |
| 3      | 946.597         | 29.63                | Pk  | 28.7           | -25.2        | 33.13                      | 47                             | -13.87      | 0-360          | 399         | H        |

Pk - Peak detector

## 8.2.5. OPERATING WITH WATCH, IC / CISPR 11

### TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz

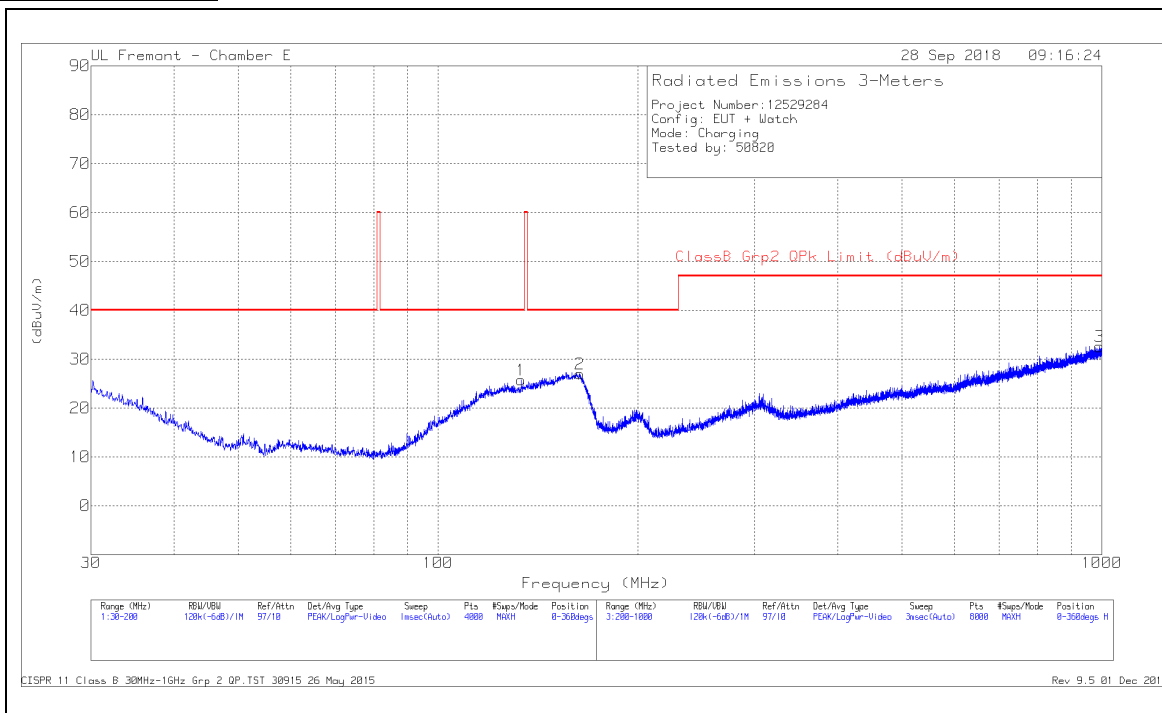


### DATA

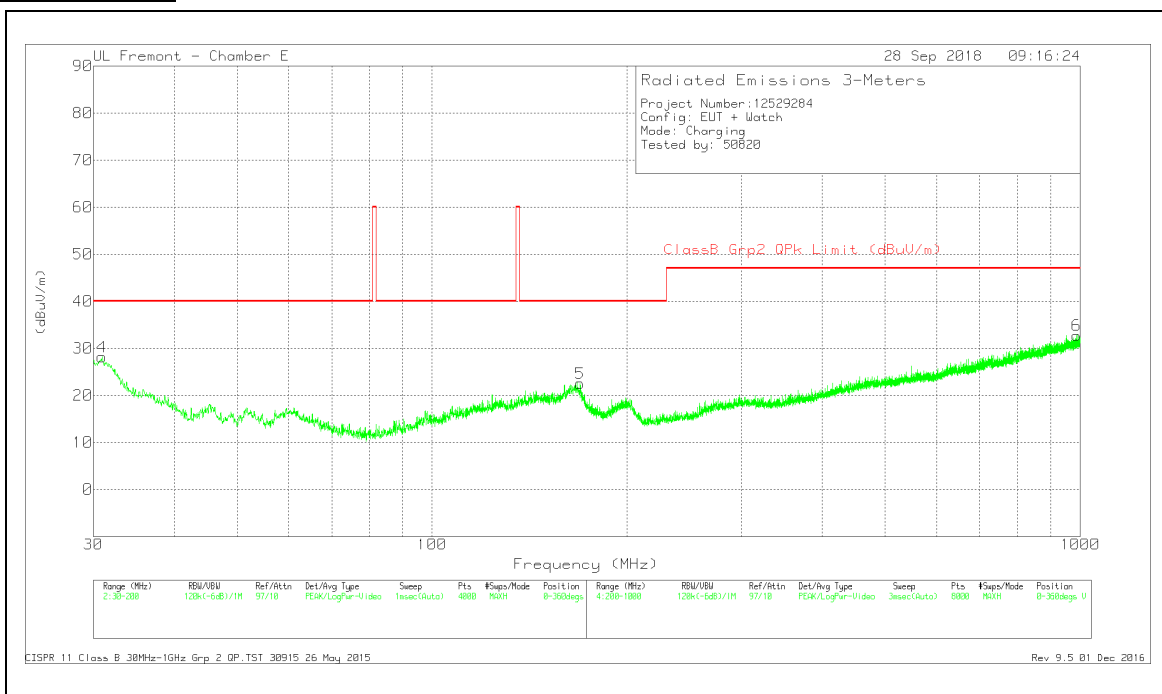
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna (dB/m) | Cables (dB) | Corrected Reading dB(uAmps/meter) | CISPR11 G2 WPT Mag FS (dBuA/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|---------------------|-------------|-----------------------------------|--------------------------------|-------------|----------------|
| 4      | .11635          | 37.36                | Pk  | -40                 | .1          | -2.54                             | 48.73                          | -51.27      | 0-360          |
| 1      | .1202           | 37.03                | Pk  | -40.1               | .1          | -2.97                             | 47.43                          | -50.4       | 0-360          |
| 5      | .32591          | 43.55                | Pk  | -40.5               | .1          | 3.15                              | 30.41                          | -27.26      | 0-360          |
| 2      | .32756          | 45.01                | Pk  | -40.5               | .1          | 4.61                              | 30.35                          | -25.74      | 0-360          |
| 6      | 28.82361        | 21.63                | Pk  | -42.9               | 1           | -20.27                            | 3                              | -23.27      | 0-360          |
| 3      | 29.27873        | 20.29                | Pk  | -43.1               | 1           | -21.81                            | 3                              | -24.81      | 0-360          |

Pk - Peak detector

## HORIZONTAL PLOT



## VERTICAL PLOT



## DATA

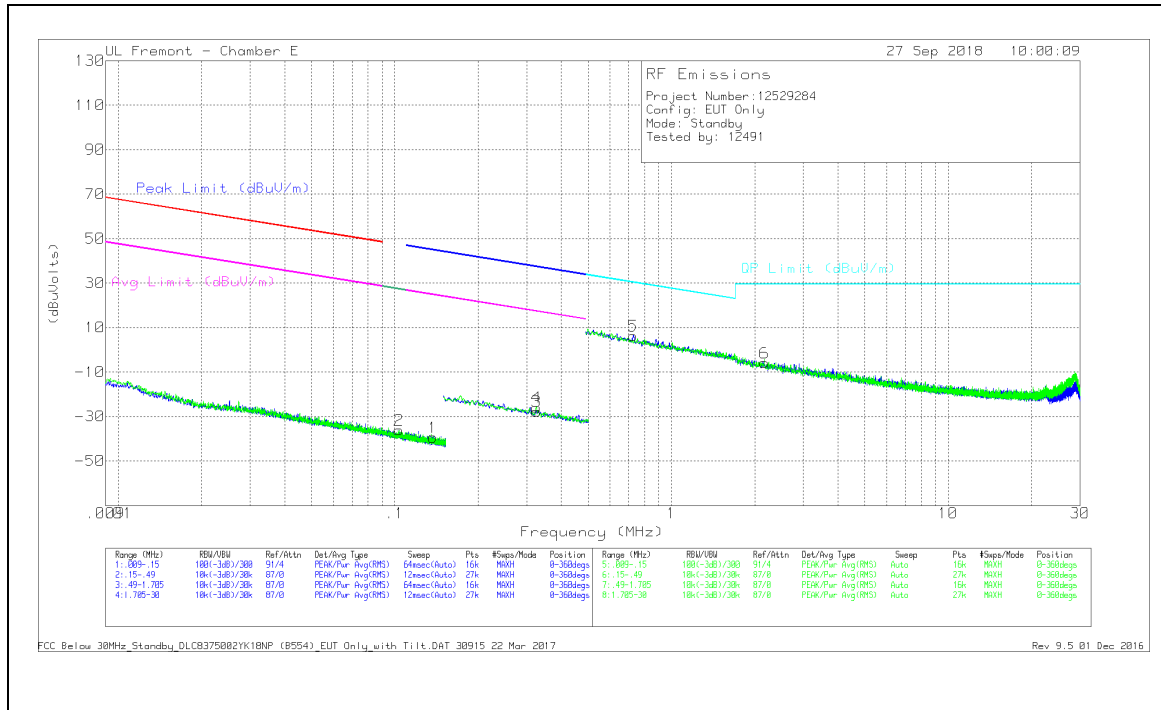
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T899 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | ClassB Grp2 QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|--------------------------------|-------------|----------------|-------------|----------|
| 4      | 30.9352         | 33.27                | Pk  | 26.5           | -31.6        | 28.17                      | 40                             | -11.83      | 0-360          | 100         | V        |
| 1      | 133.4718        | 36.4                 | Pk  | 19.8           | -30.5        | 25.7                       | 40                             | -14.3       | 0-360          | 200         | H        |
| 2      | 163.4208        | 39.07                | Pk  | 18.1           | -30.2        | 26.97                      | 40                             | -13.03      | 0-360          | 200         | H        |
| 5      | 169.2235        | 34.74                | Pk  | 18             | -30.2        | 22.54                      | 40                             | -17.46      | 0-360          | 100         | V        |
| 6      | 986.7023        | 28.48                | Pk  | 29             | -24.7        | 32.78                      | 47                             | -14.22      | 0-360          | 300         | V        |
| 3      | 992.703         | 27.95                | Pk  | 29.1           | -24.5        | 32.55                      | 47                             | -14.45      | 0-360          | 400         | H        |

Pk - Peak detector

## 8.3. TILT ORIENTATION

### 8.3.1. STANDBY CONFIGURATION

#### FCC FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



## DATA

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna (dB/m) | Cables (dB) | Dist Corr 300m | Corrected Reading (dBuV oVts) | QP Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Avg Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|---------------------|-------------|----------------|-------------------------------|-------------------|-------------|---------------------|-------------|--------------------|-------------|----------------|
| 2      | .10356          | 32.79                | Pk  | 11.1                | .1          | -80            | -36.01                        | 27.31             | -63.32      | -                   | -           | -                  | -           | 0-360          |
| 1      | .13715          | 29.47                | Pk  | 11.1                | .1          | -80            | -39.33                        | -                 | -           | 44.88               | -84.21      | 24.88              | -64.21      | 0-360          |
| 3      | .32517          | 41.39                | Pk  | 10.9                | .1          | -80            | -27.61                        | -                 | -           | 37.37               | -64.98      | 17.37              | -44.98      | 0-360          |
| 4      | .32519          | 43.22                | Pk  | 10.9                | .1          | -80            | -25.78                        | -                 | -           | 37.37               | -63.15      | 17.37              | -43.15      | 0-360          |

### Pk - Peak detector

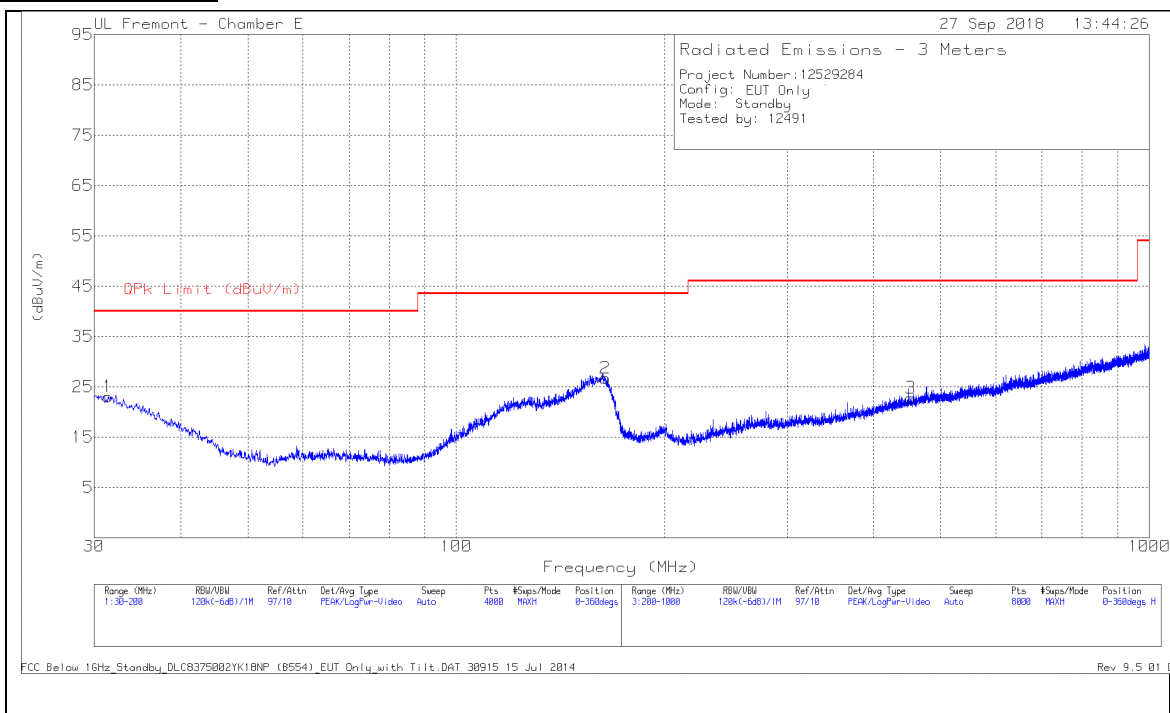
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna (dB/m) | Cables (dB) | Dist Corr (dB) 40Log | Corrected Reading (dBuV oVts) | QP Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|---------------------|-------------|----------------------|-------------------------------|-------------------|-------------|----------------|
| 5      | .72742          | 35.16                | Pk  | 11                  | .2          | -40                  | 6.36                          | 30.38             | -24.02      | 0-360          |
| 6      | 2.17031         | 22.47                | Pk  | 11.4                | .3          | -40                  | -5.83                         | 29.5              | -35.33      | 0-360          |

### Pk - Peak detector

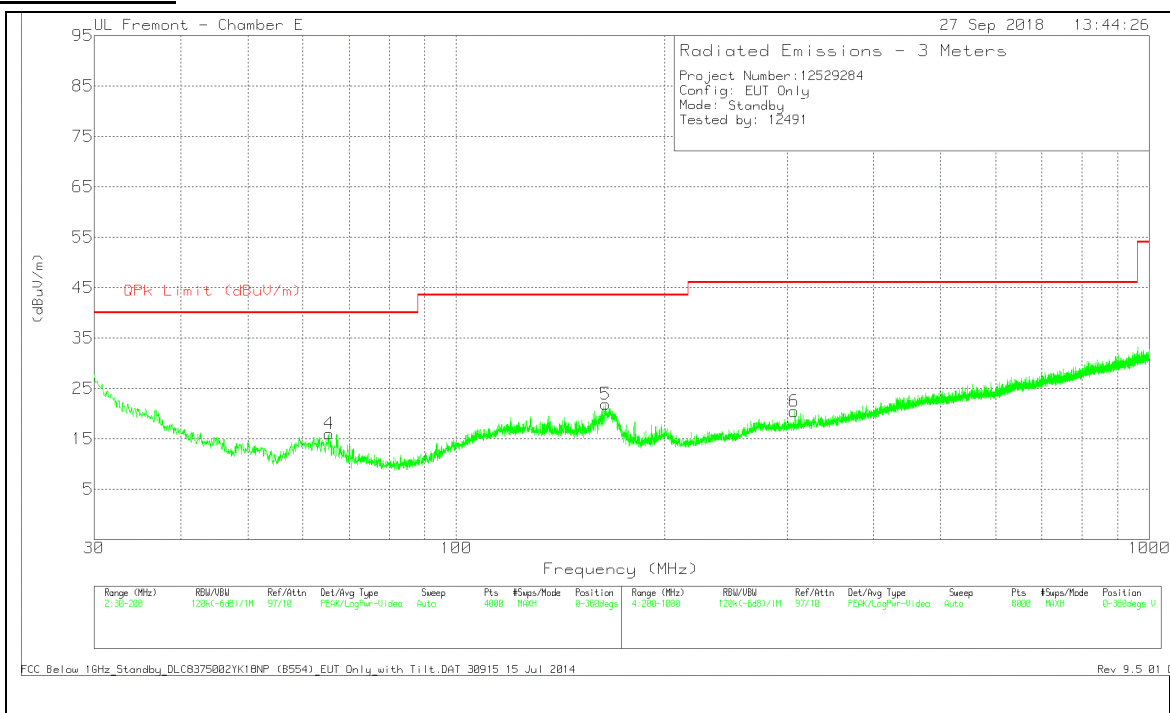


## FCC TX SPURIOUS EMISSION 30 To 1000 MHz

### HORIZONTAL PLOT



### VERTICAL PLOT



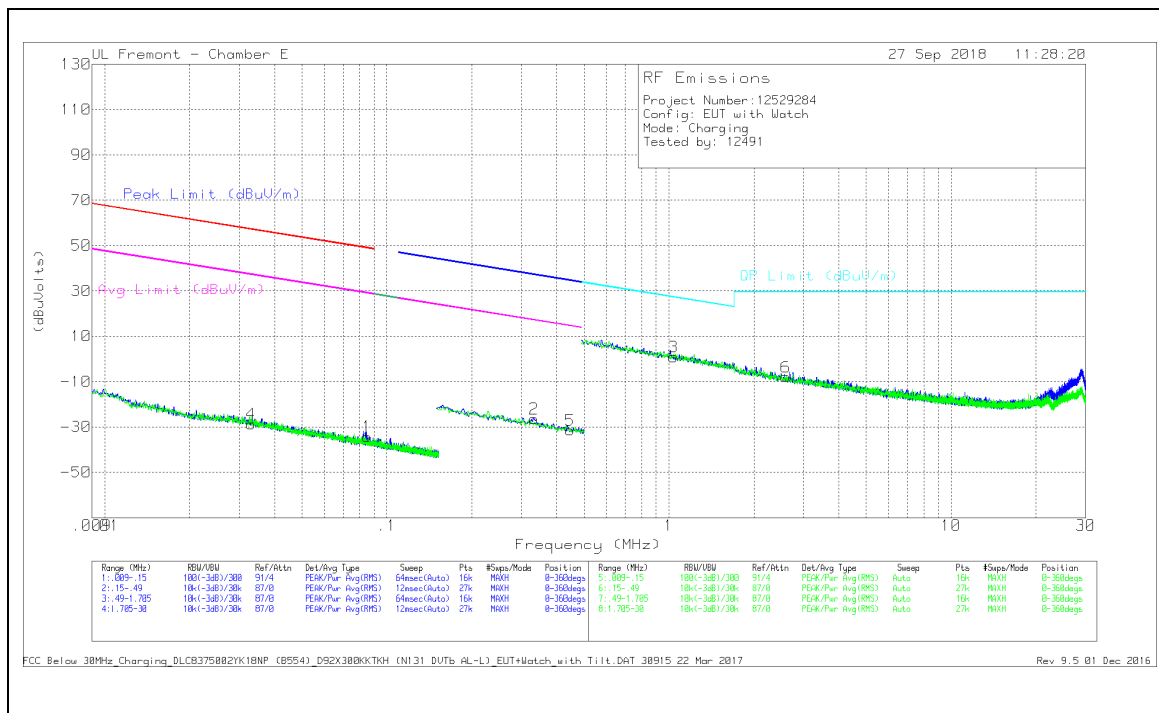
## DATA

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T899 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 2      | * 164.0372      | 38.8                 | Pk  | 18.1           | -30.2        | 26.7                       | 43.52              | -16.82      | 0-360          | 200         | H        |
| 5      | * 164.2497      | 33.97                | Pk  | 18.1           | -30.2        | 21.87                      | 43.52              | -21.65      | 0-360          | 100         | V        |
| 1      | 31.4454         | 28.5                 | Pk  | 26.1           | -31.6        | 23                         | 40                 | -17         | 0-360          | 300         | H        |
| 4      | 65.4967         | 32.81                | Pk  | 14.3           | -31.1        | 16.01                      | 40                 | -23.99      | 0-360          | 100         | V        |
| 6      | 307.3139        | 29.93                | Pk  | 19.5           | -29          | 20.43                      | 46.02              | -25.59      | 0-360          | 100         | V        |
| 3      | 452.6328        | 28.35                | Pk  | 22.8           | -28.4        | 22.75                      | 46.02              | -23.27      | 0-360          | 100         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector

### 8.3.2. OPERATING WITH WATCH

#### FCC FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



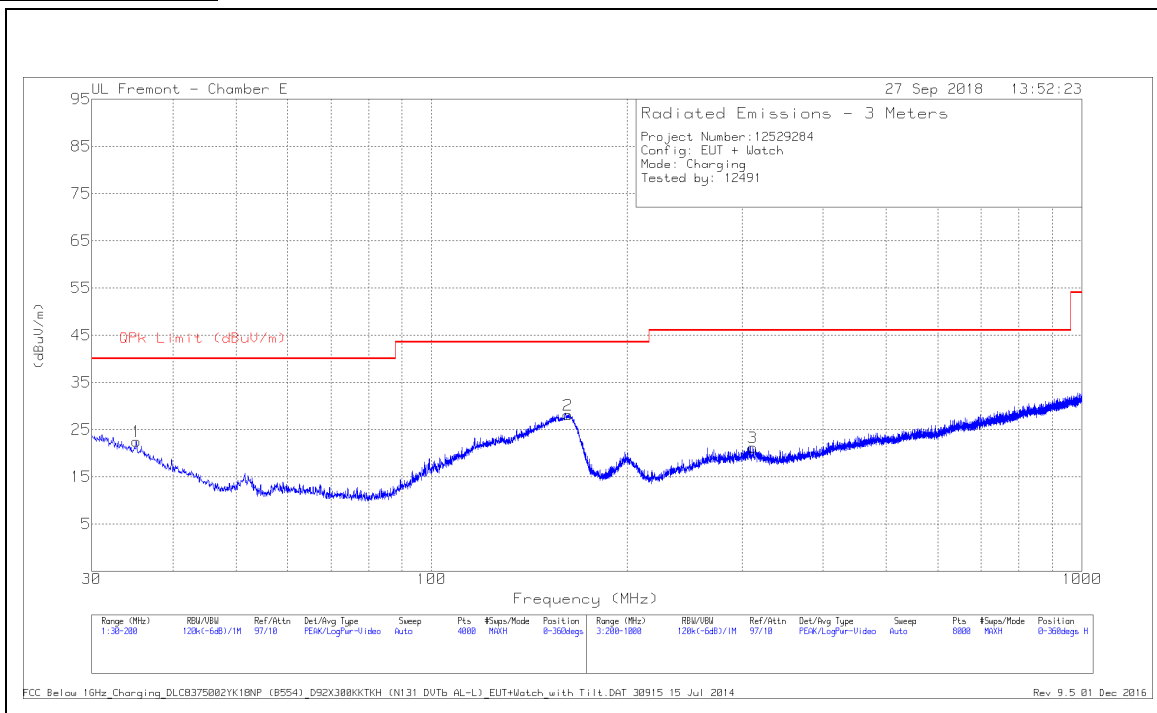
#### DATA

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna (dB/m) | Cables (dB) | Dist Corr 300m | Corrected Reading (dBuV olts) | Peak Limit (dBuV/m) | Margin (dB) | Avg Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|---------------------|-------------|----------------|-------------------------------|---------------------|-------------|--------------------|-------------|----------------|
| 4      | .03308          | 37.7                 | Pk  | 13.5                | .1          | -80            | -28.7                         | 57.19               | -85.89      | 37.19              | -65.89      | 0-360          |
| 1      | .08518          | 34.23                | Pk  | 11.5                | .1          | -80            | -34.17                        | 48.98               | -83.15      | 28.98              | -63.15      | 0-360          |
| 2      | .33283          | 42.61                | Pk  | 10.9                | .1          | -80            | -26.39                        | 37.17               | -63.56      | 17.17              | -43.56      | 0-360          |
| 5      | .44624          | 37.43                | Pk  | 11                  | .1          | -80            | -31.47                        | 34.61               | -66.08      | 14.61              | -46.08      | 0-360          |

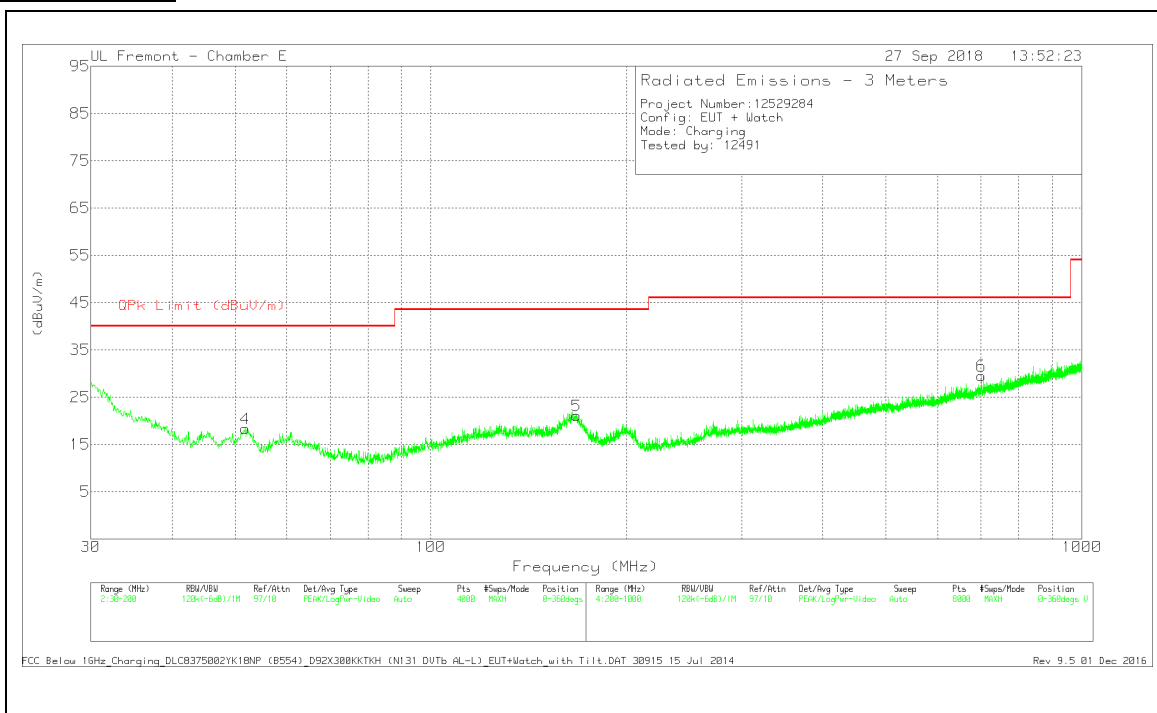
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna (dB/m) | Cables (dB) | Dist Corr (dB) 40Log | Corrected Reading (dBuVolts) | QP Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|---------------------|-------------|----------------------|------------------------------|-------------------|-------------|----------------|
| 3      | 1.03712         | 29.44                | Pk  | 11.3                | .2          | -40                  | .94                          | 27.31             | -26.37      | 0-360          |
| 6      | 2.59685         | 20.47                | Pk  | 11.3                | .3          | -40                  | -7.93                        | 29.5              | -37.43      | 0-360          |

Pk - Peak detector

## HORIZONTAL PLOT



## VERTICAL PLOT



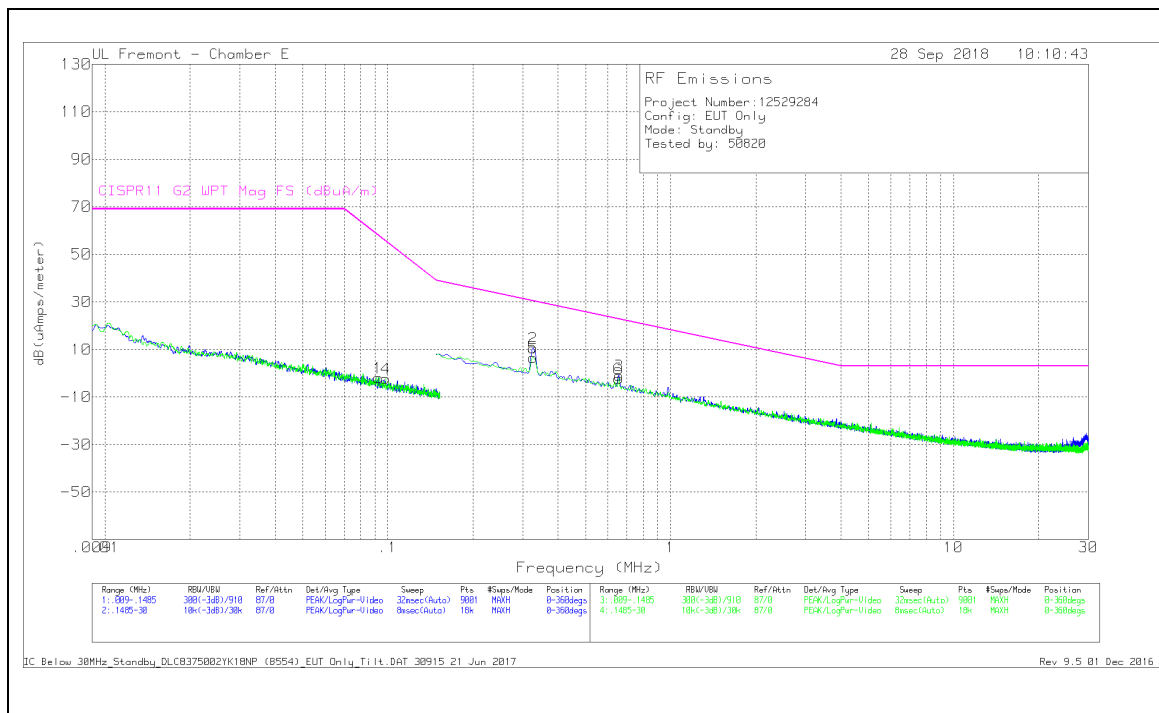
## DATA

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T899 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 2      | * 162.0392      | 40.29                | Pk  | 18.1           | -30.3        | 28.09                      | 43.52              | -15.43      | 0-360          | 200         | H        |
| 1      | 35.1438         | 30.39                | Pk  | 23.6           | -31.5        | 22.49                      | 40                 | -17.51      | 0-360          | 400         | H        |
| 4      | 51.8507         | 36.13                | Pk  | 13.5           | -31.3        | 18.33                      | 40                 | -21.67      | 0-360          | 100         | V        |
| 5      | 167.353         | 33.3                 | Pk  | 18             | -30.2        | 21.1                       | 43.52              | -22.42      | 0-360          | 100         | V        |
| 3      | 311.9145        | 30.77                | Pk  | 19.6           | -29.2        | 21.17                      | 46.02              | -24.85      | 0-360          | 100         | H        |
| 6      | 700.8651        | 30.41                | Pk  | 26.1           | -27          | 29.51                      | 46.02              | -16.51      | 0-360          | 200         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector

### 8.3.3. STANDBY CONFIGURATION, IC / CISPR 11

#### FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



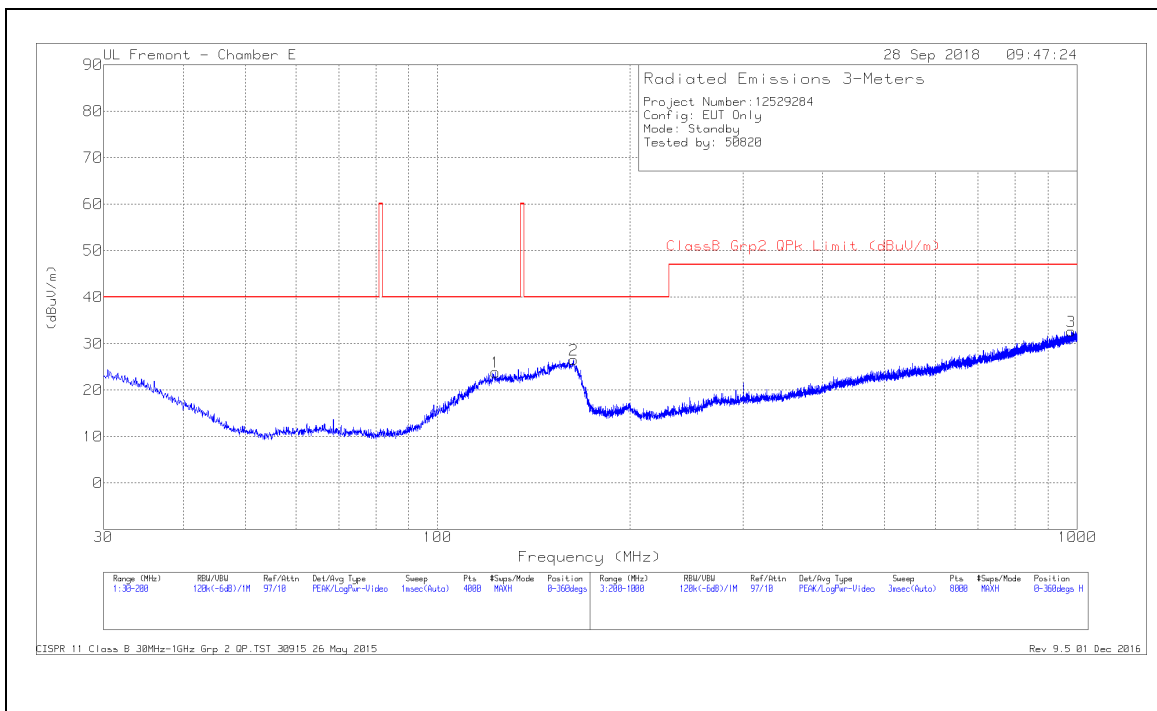
#### DATA

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna (dB/m) | Cables (dB) | Corrected Reading dB(uAmps/meter) | CISPR11 G2 WPT Mag FS (dBuA/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|---------------------|-------------|-----------------------------------|--------------------------------|-------------|----------------|
| 1      | *.09263         | 37.48                | Pk  | -39.6               | .1          | -2.02                             | 57.83                          | -59.85      | 0-360          |
| 4      | *.09834         | 37.61                | Pk  | -39.9               | .1          | -2.19                             | 55.44                          | -57.63      | 0-360          |
| 2      | .32591          | 50.89                | Pk  | -40.5               | .1          | 10.49                             | 30.41                          | -19.92      | 0-360          |
| 5      | .32591          | 47.04                | Pk  | -40.5               | .1          | 6.64                              | 30.41                          | -23.77      | 0-360          |
| 6      | .65502          | 38                   | Pk  | -40.4               | .2          | -2.2                              | 22.78                          | -24.98      | 0-360          |
| 3      | .65585          | 39.19                | Pk  | -40.4               | .2          | -1.01                             | 22.76                          | -23.77      | 0-360          |

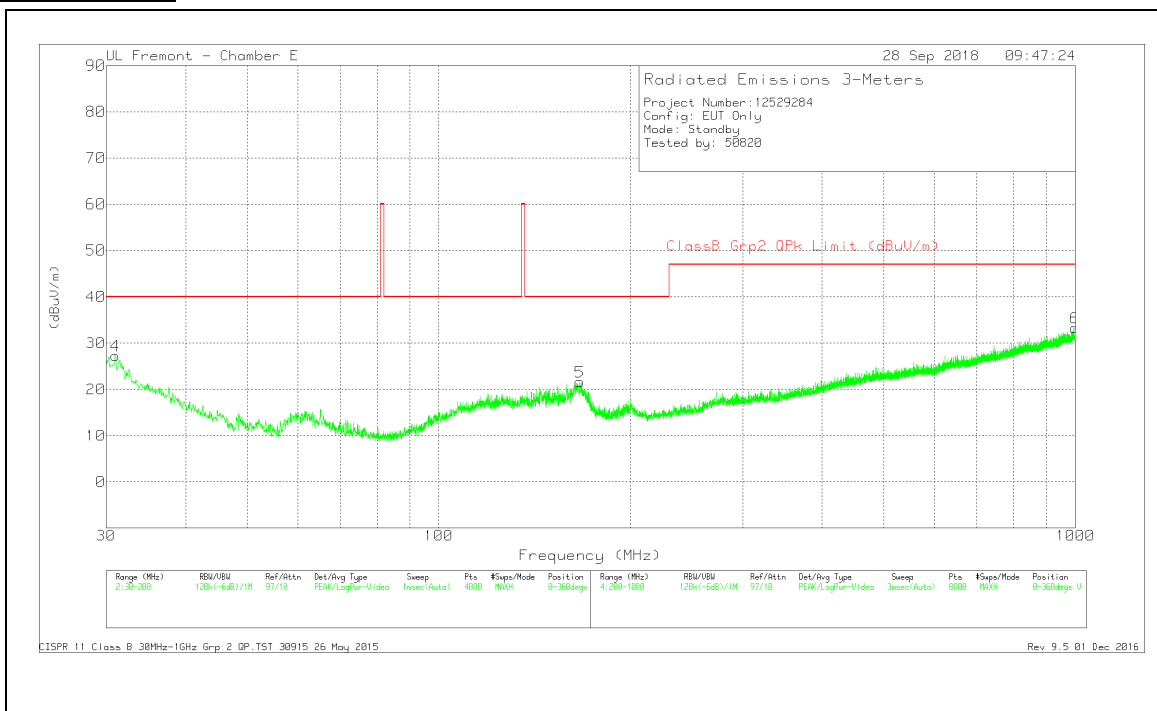
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector

## IC / CISPR 11 TX SPURIOUS EMISSION 30 To 1000 MHz

### HORIZONTAL PLOT



### VERTICAL PLOT



## DATA

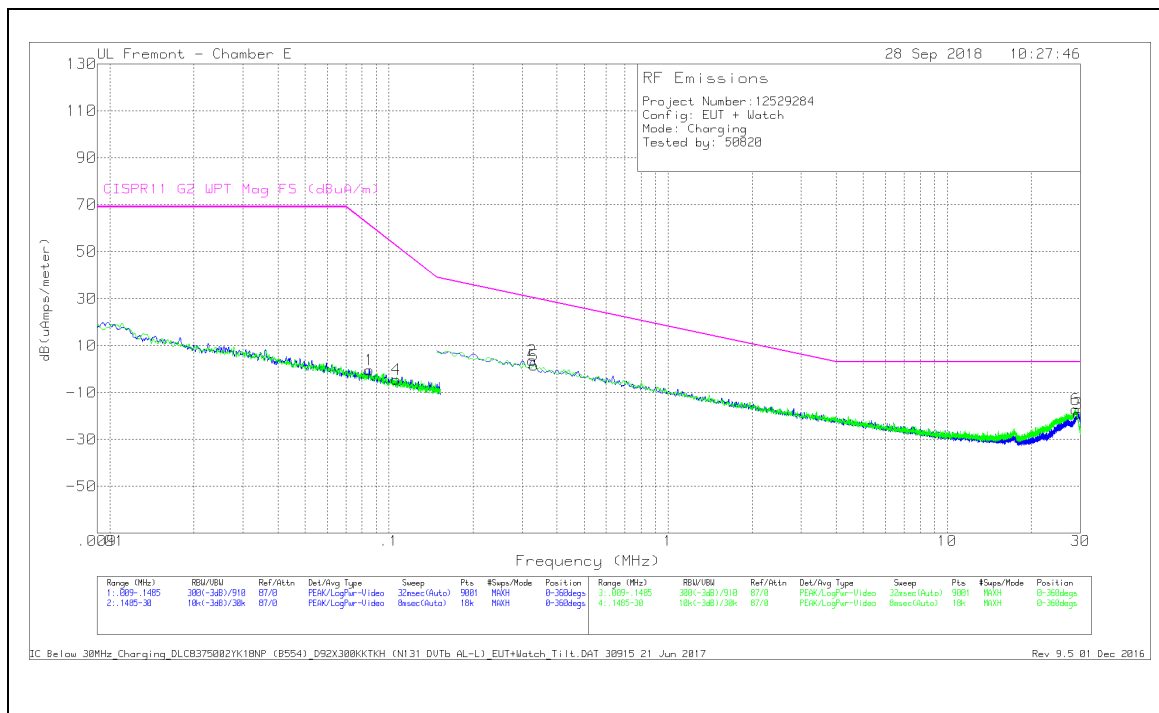
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T899 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | ClassB Grp2 QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|--------------------------------|-------------|----------------|-------------|----------|
| 4      | 31.0203         | 32.41                | Pk  | 26.5           | -31.6        | 27.31                      | 40                             | -12.69      | 0-360          | 100         | V        |
| 1      | 123.0566        | 34.45                | Pk  | 20             | -30.6        | 23.85                      | 40                             | -16.15      | 0-360          | 199         | H        |
| 2      | 163.272         | 38.6                 | Pk  | 18.1           | -30.2        | 26.5                       | 40                             | -13.5       | 0-360          | 199         | H        |
| 5      | 166.4603        | 33.84                | Pk  | 18             | -30.2        | 21.64                      | 40                             | -18.36      | 0-360          | 100         | V        |
| 3      | 978.9012        | 28.42                | Pk  | 28.9           | -24.7        | 32.62                      | 47                             | -14.38      | 0-360          | 300         | H        |
| 6      | 997.5037        | 28.53                | Pk  | 29.3           | -24.5        | 33.33                      | 47                             | -13.67      | 0-360          | 199         | V        |

Pk - Peak detector



### 8.3.4. OPERATING WITH WATCH, IC / CISPR 11

#### FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



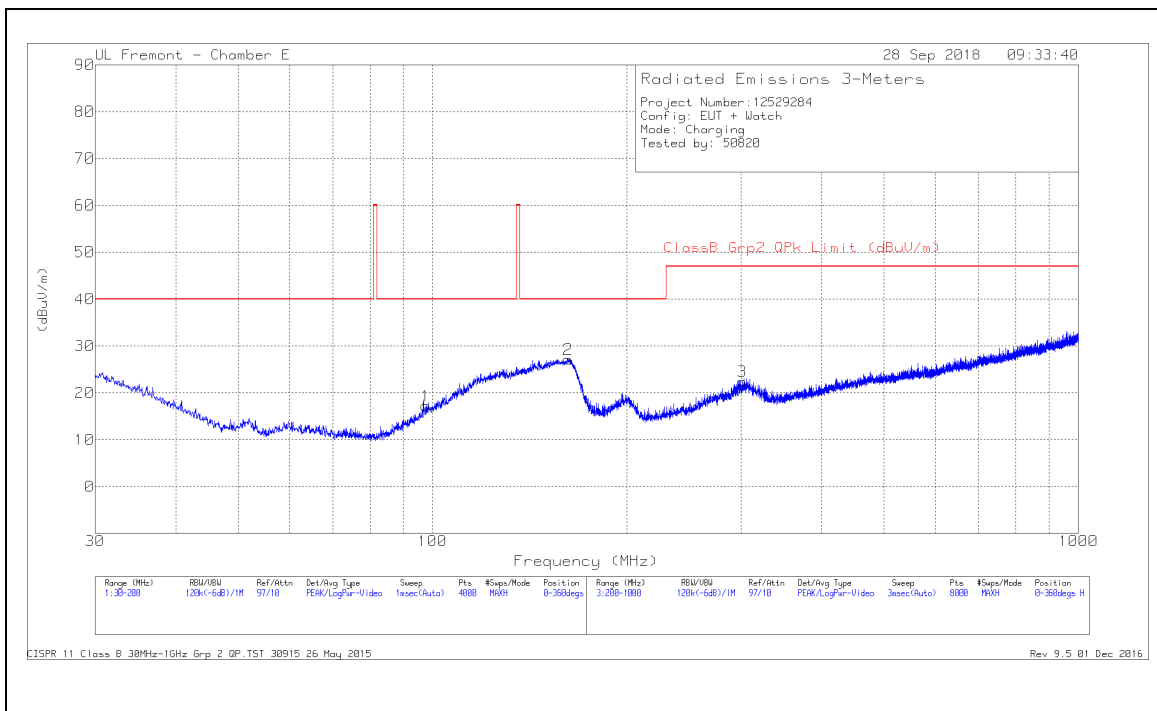
#### DATA

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna (dB/m) | Cables (dB) | Corrected Reading dB(uAmps/meter) | CISPR11 G2 WPT Mag FS (dBuA/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|---------------------|-------------|-----------------------------------|--------------------------------|-------------|----------------|
| 4      | *.10625         | 35.54                | Pk  | -40                 | .1          | -4.36                             | 52.36                          | -56.72      | 0-360          |
| 1      | .08497          | 39.08                | Pk  | -39.5               | .1          | -.32                              | 61.27                          | -61.59      | 0-360          |
| 2      | .32591          | 44.08                | Pk  | -40.5               | .1          | 3.68                              | 30.41                          | -26.73      | 0-360          |
| 5      | .33088          | 41.99                | Pk  | -40.5               | .1          | 1.59                              | 30.24                          | -28.65      | 0-360          |
| 6      | 28.82527        | 24.79                | Pk  | -42.9               | 1           | -17.11                            | 3                              | -20.11      | 0-360          |
| 3      | 29.40391        | 23.19                | Pk  | -43.1               | 1           | -18.91                            | 3                              | -21.91      | 0-360          |

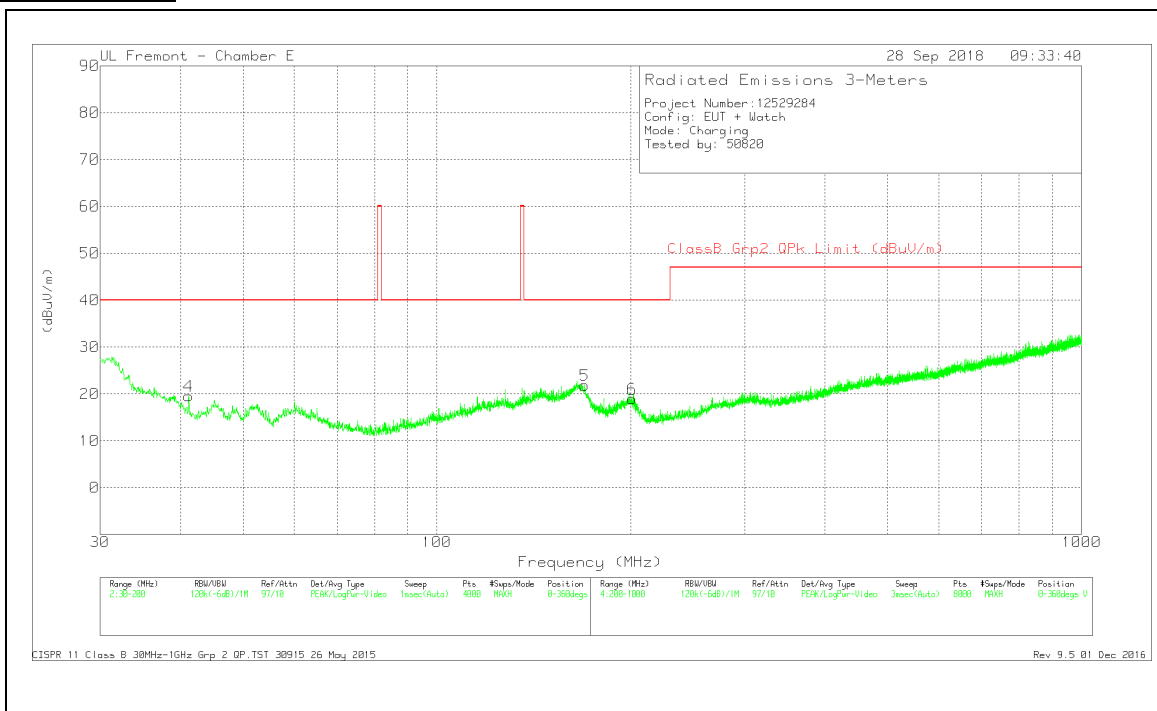
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector

## IC / CISPR 11 TX SPURIOUS EMISSION 30 To 1000 MHz

### HORIZONTAL PLOT



### VERTICAL PLOT



## DATA

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T899 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | ClassB Grp2 QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|--------------------------------|-------------|----------------|-------------|----------|
| 4      | 41.1804         | 31.56                | Pk  | 19.4           | -31.4        | 19.56                      | 40                             | -20.44      | 0-360          | 100         | V        |
| 1      | 97.55           | 31.89                | Pk  | 16.2           | -30.8        | 17.29                      | 40                             | -22.71      | 0-360          | 299         | H        |
| 2      | 161.9967        | 39.36                | Pk  | 18.1           | -30.3        | 27.16                      | 40                             | -12.84      | 0-360          | 200         | H        |
| 5      | 169.4361        | 34.05                | Pk  | 18             | -30.2        | 21.85                      | 40                             | -18.15      | 0-360          | 100         | V        |
| 6      | 200.7001        | 30.75                | Pk  | 18.1           | -29.9        | 18.95                      | 40                             | -21.05      | 0-360          | 100         | V        |
| 3      | 301.7132        | 32.46                | Pk  | 19.3           | -29.3        | 22.46                      | 47                             | -24.54      | 0-360          | 100         | H        |

Pk - Peak detector

## 9. AC MAINS LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

| Frequency of Emission (MHz) | Conducted Limit (dB $\mu$ V) |            |
|-----------------------------|------------------------------|------------|
|                             | Quasi-peak                   | Average    |
| 0.15-0.5                    | 66 to 56 *                   | 56 to 46 * |
| 0.5-5                       | 56                           | 46         |
| 5-30                        | 60                           | 50         |

\*Decreases with the logarithm of the frequency.

### TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

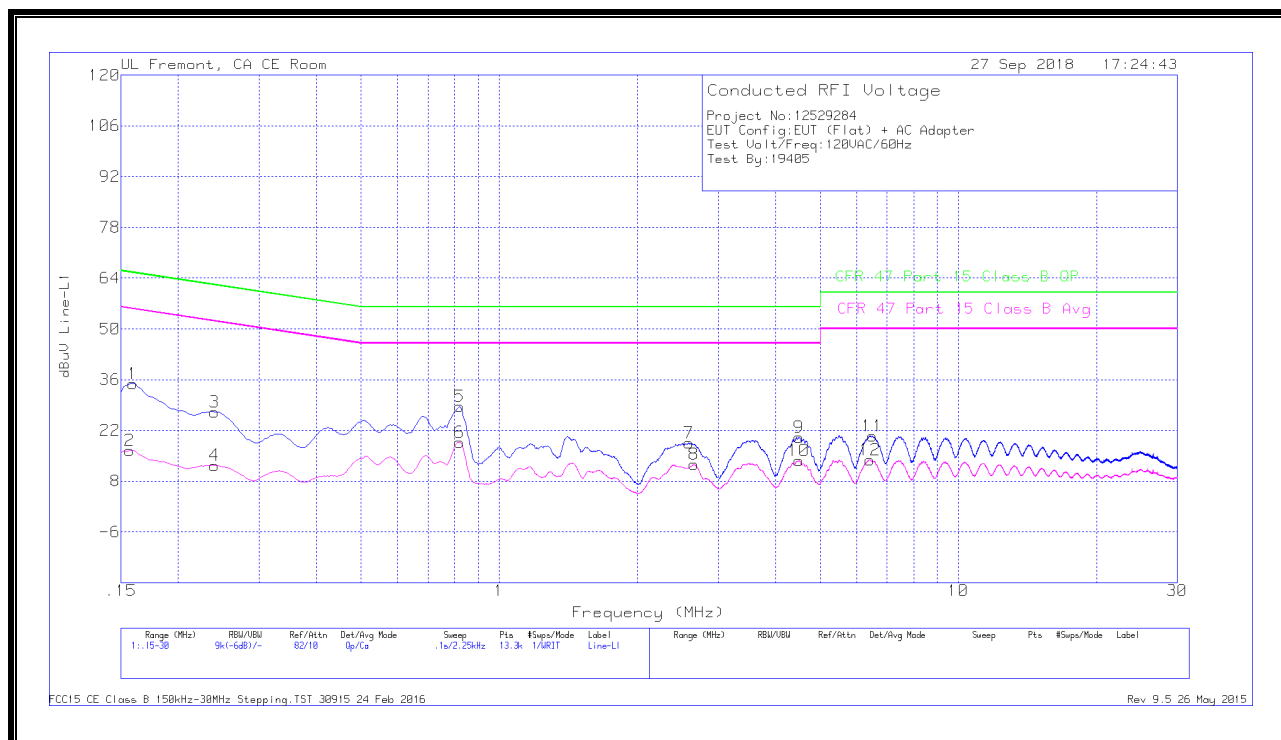
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

### RESULTS

## 9.1. STANDBY MODE POWERED BY AC/DC ADAPTER

### LINE 1 RESULTS



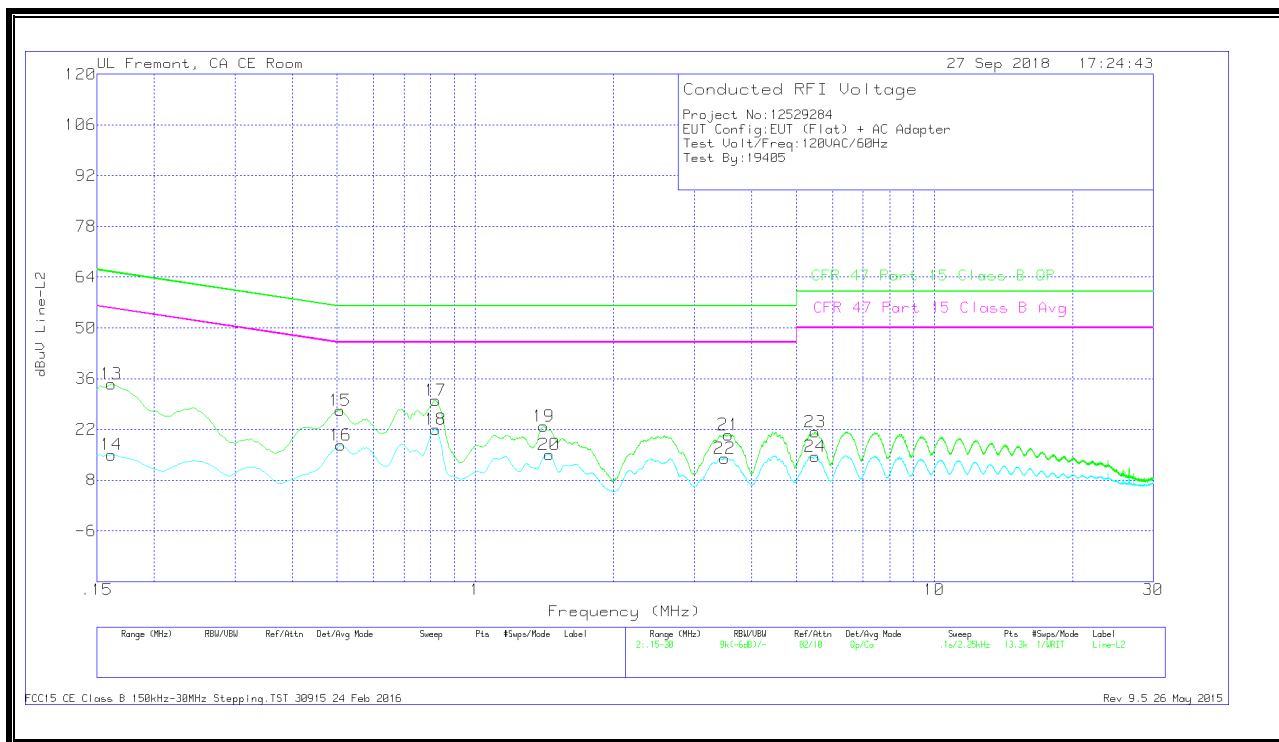
### WORST EMISSIONS

| Range 1: Line-L1 .15 - 30MHz |                 |                      |     |         |                 |              |                        |                           |                |                            |                      |
|------------------------------|-----------------|----------------------|-----|---------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L1 | LC Cables C1&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)Margin (dB) |
| 1                            | .159            | 24.74                | Qp  | .1      | 0               | 10.1         | 34.94                  | 65.52                     | -30.58         | -                          | -                    |
| 2                            | .15675          | 6.22                 | Ca  | .1      | 0               | 10.1         | 16.42                  | -                         | -              | 55.63                      | -39.21               |
| 3                            | .24             | 17.03                | Qp  | 0       | 0               | 10.1         | 27.13                  | 62.1                      | -34.97         | -                          | -                    |
| 4                            | .24             | 2.26                 | Ca  | 0       | 0               | 10.1         | 12.36                  | -                         | -              | 52.1                       | -39.74               |
| 5                            | .8205           | 18.49                | Qp  | 0       | 0               | 10.1         | 28.59                  | 56                        | -27.41         | -                          | -                    |
| 6                            | .8205           | 8.68                 | Ca  | 0       | 0               | 10.1         | 18.78                  | -                         | -              | 46                         | -27.22               |
| 7                            | 2.58675         | 8.29                 | Qp  | 0       | .1              | 10.1         | 18.49                  | 56                        | -37.51         | -                          | -                    |
| 8                            | 2.65875         | 2.35                 | Ca  | 0       | .1              | 10.1         | 12.55                  | -                         | -              | 46                         | -33.45               |
| 9                            | 4.49475         | 9.93                 | Qp  | 0       | .1              | 10.1         | 20.13                  | 56                        | -35.87         | -                          | -                    |
| 10                           | 4.5015          | 3.53                 | Ca  | 0       | .1              | 10.1         | 13.73                  | -                         | -              | 46                         | -32.27               |
| 11                           | 6.5085          | 10.1                 | Qp  | 0       | .2              | 10.2         | 20.5                   | 60                        | -39.5          | -                          | -                    |
| 12                           | 6.41513         | 3.51                 | Ca  | 0       | .2              | 10.2         | 13.91                  | -                         | -              | 50                         | -36.09               |

Qp - Quasi-Peak detector

Ca - CISPR average detection

## LINE 2 RESULTS



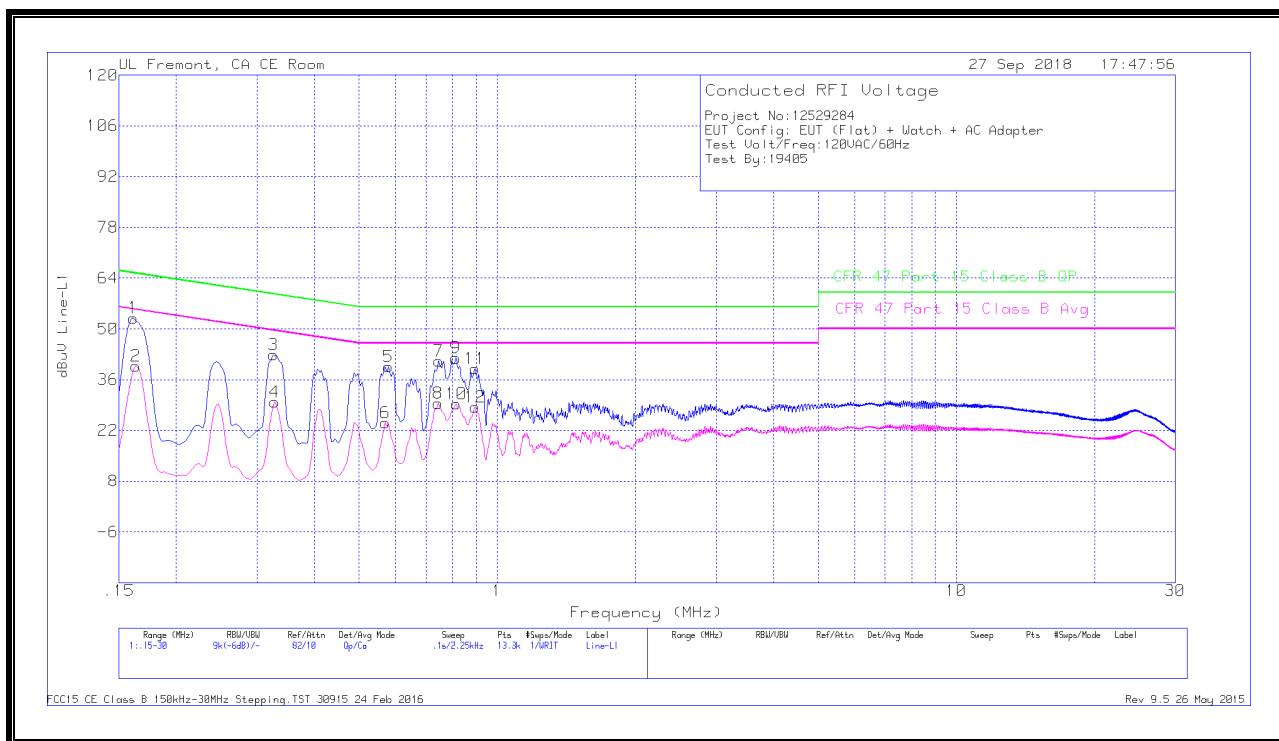
## WORST EMISSIONS

| Range 2: Line-L2 .15 - 30MHz |                 |                      |     |         |                 |              |                        |                           |                |                            |                      |
|------------------------------|-----------------|----------------------|-----|---------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L2 | LC Cables C2&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)Margin (dB) |
| 13                           | .16125          | 24.25                | Qp  | .1      | 0               | 10.1         | 34.45                  | 65.4                      | -30.95         | -                          | -                    |
| 14                           | .16125          | 4.78                 | Ca  | .1      | 0               | 10.1         | 14.98                  | -                         | -              | 55.4                       | -40.42               |
| 15                           | .50775          | 17.18                | Qp  | 0       | 0               | 10.1         | 27.28                  | 56                        | -28.72         | -                          | -                    |
| 16                           | .51             | 7.52                 | Ca  | 0       | 0               | 10.1         | 17.62                  | -                         | -              | 46                         | -28.38               |
| 17                           | .8205           | 19.87                | Qp  | 0       | 0               | 10.1         | 29.97                  | 56                        | -26.03         | -                          | -                    |
| 18                           | .8205           | 11.88                | Ca  | 0       | 0               | 10.1         | 21.98                  | -                         | -              | 46                         | -24.02               |
| 19                           | 1.40888         | 12.63                | Qp  | 0       | .1              | 10.1         | 22.83                  | 56                        | -33.17         | -                          | -                    |
| 20                           | 1.44825         | 4.89                 | Ca  | 0       | .1              | 10.1         | 15.09                  | -                         | -              | 46                         | -30.91               |
| 21                           | 3.5565          | 10.33                | Qp  | 0       | .1              | 10.1         | 20.53                  | 56                        | -35.47         | -                          | -                    |
| 22                           | 3.49238         | 3.84                 | Ca  | 0       | .1              | 10.1         | 14.04                  | -                         | -              | 46                         | -31.96               |
| 23                           | 5.5005          | 11.16                | Qp  | 0       | .1              | 10.1         | 21.36                  | 60                        | -38.64         | -                          | -                    |
| 24                           | 5.50163         | 4.38                 | Ca  | 0       | .1              | 10.1         | 14.58                  | -                         | -              | 50                         | -35.42               |

Qp - Quasi-Peak detector  
Ca - CISPR average detection

## 9.2. OPERATING MODE WITH WATCH POWERED BY AC/DC ADAPTER

### LINE 1 RESULTS

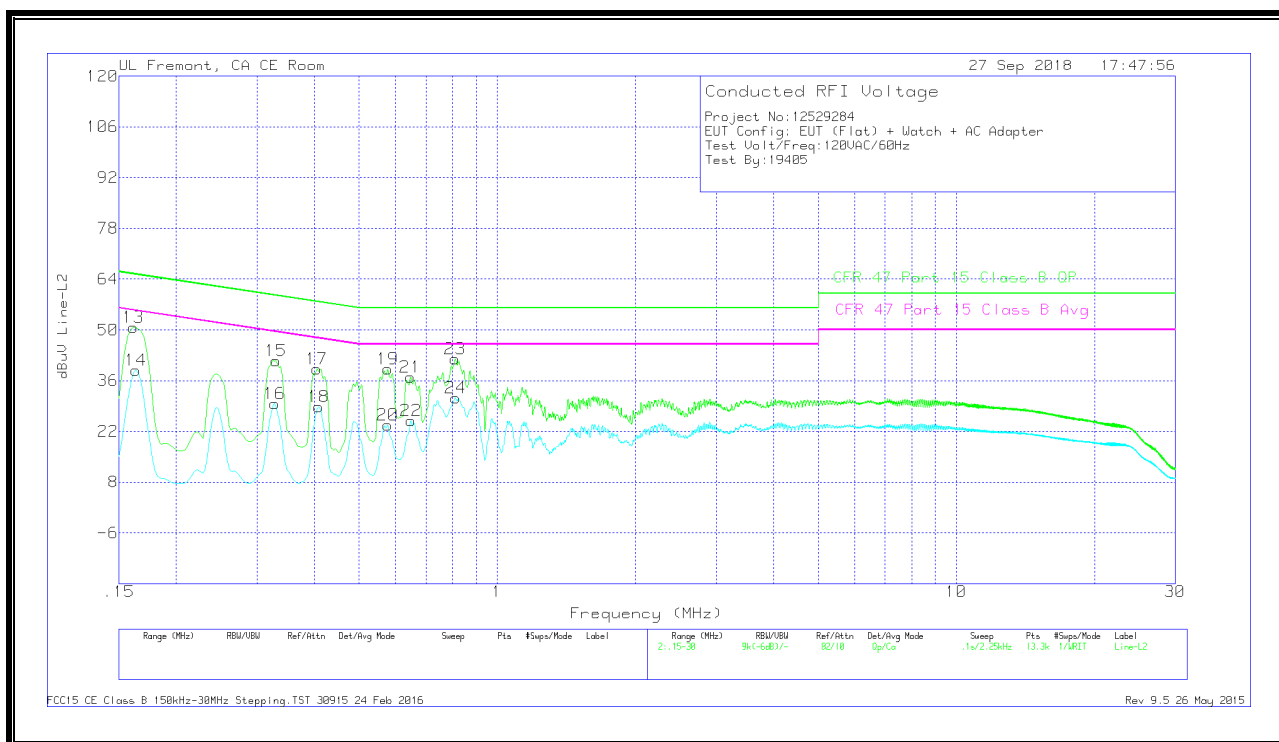


### WORST EMISSIONS

| Range 1: Line-L1 .15 - 30MHz |                 |                      |     |         |                 |              |                        |                           |                |                            |                      |
|------------------------------|-----------------|----------------------|-----|---------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L1 | LC Cables C1&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)Margin (dB) |
| 1                            | .16125          | 42.84                | Qp  | .1      | 0               | 10.1         | 53.04                  | 65.4                      | -12.36         | -                          | -                    |
| 2                            | .1635           | 29.5                 | Ca  | .1      | 0               | 10.1         | 39.7                   | -                         | -              | 55.28                      | -15.58               |
| 3                            | .3255           | 32.82                | Qp  | 0       | 0               | 10.1         | 42.92                  | 59.57                     | -16.65         | -                          | -                    |
| 4                            | .32775          | 19.67                | Ca  | 0       | 0               | 10.1         | 29.77                  | -                         | -              | 49.51                      | -19.74               |
| 5                            | .57975          | 29.54                | Qp  | 0       | 0               | 10.1         | 39.64                  | 56                        | -16.36         | -                          | -                    |
| 6                            | .57075          | 13.98                | Ca  | 0       | 0               | 10.1         | 24.08                  | -                         | -              | 46                         | -21.92               |
| 7                            | .74625          | 31.05                | Qp  | 0       | 0               | 10.1         | 41.15                  | 56                        | -14.85         | -                          | -                    |
| 8                            | .744            | 19.34                | Ca  | 0       | 0               | 10.1         | 29.44                  | -                         | -              | 46                         | -16.56               |
| 9                            | .8115           | 31.82                | Qp  | 0       | 0               | 10.1         | 41.92                  | 56                        | -14.08         | -                          | -                    |
| 10                           | .81375          | 19.18                | Ca  | 0       | 0               | 10.1         | 29.28                  | -                         | -              | 46                         | -16.72               |
| 11                           | .89475          | 28.9                 | Qp  | 0       | 0               | 10.1         | 39                     | 56                        | -17            | -                          | -                    |
| 12                           | .89475          | 18.38                | Ca  | 0       | 0               | 10.1         | 28.48                  | -                         | -              | 46                         | -17.52               |

Qp - Quasi-Peak detector  
Ca - CISPR average detection

## LINE 2 RESULTS



## WORST EMISSIONS

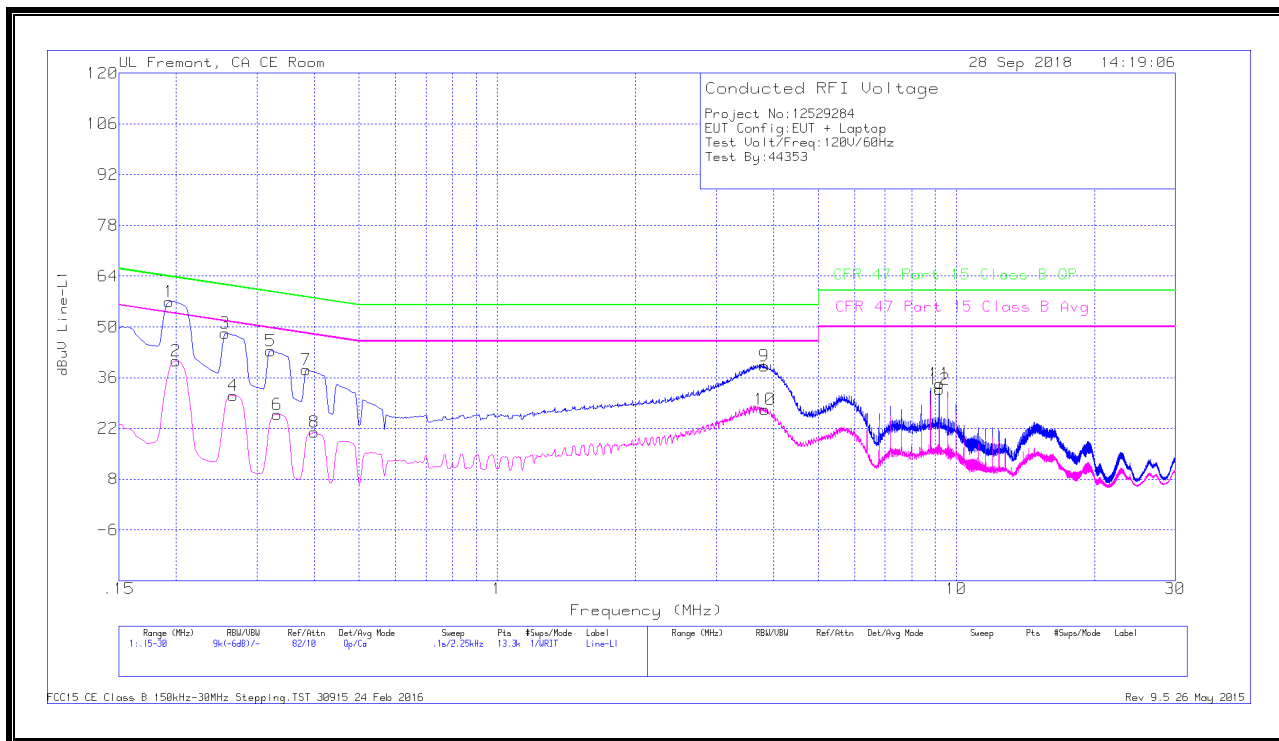
| Range 2: Line-L2 .15 - 30MHz |                 |                      |     |         |                 |              |                        |                           |                |                            |                      |
|------------------------------|-----------------|----------------------|-----|---------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L2 | LC Cables C2&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)Margin (dB) |
| 13                           | .16125          | 40.45                | Qp  | .1      | 0               | 10.1         | 50.65                  | 65.4                      | -14.75         | -                          | -                    |
| 14                           | .1635           | 28.66                | Ca  | .1      | 0               | 10.1         | 38.86                  | -                         | -              | 55.28                      | -16.42               |
| 15                           | .33             | 31.46                | Qp  | 0       | 0               | 10.1         | 41.56                  | 59.45                     | -17.89         | -                          | -                    |
| 16                           | .32775          | 19.62                | Ca  | 0       | 0               | 10.1         | 29.72                  | -                         | -              | 49.51                      | -19.79               |
| 17                           | .40425          | 29.18                | Qp  | 0       | 0               | 10.1         | 39.28                  | 57.77                     | -18.49         | -                          | -                    |
| 18                           | .40875          | 18.63                | Ca  | 0       | 0               | 10.1         | 28.73                  | -                         | -              | 47.67                      | -18.94               |
| 19                           | .5775           | 29.06                | Qp  | 0       | 0               | 10.1         | 39.16                  | 56                        | -16.84         | -                          | -                    |
| 20                           | .5775           | 13.67                | Ca  | 0       | 0               | 10.1         | 23.77                  | -                         | -              | 46                         | -22.23               |
| 21                           | .64725          | 26.92                | Qp  | 0       | 0               | 10.1         | 37.02                  | 56                        | -18.98         | -                          | -                    |
| 22                           | .6495           | 14.82                | Ca  | 0       | 0               | 10.1         | 24.92                  | -                         | -              | 46                         | -21.08               |
| 23                           | .80925          | 31.96                | Qp  | 0       | 0               | 10.1         | 42.06                  | 56                        | -13.94         | -                          | -                    |
| 24                           | .8115           | 21.19                | Ca  | 0       | 0               | 10.1         | 31.29                  | -                         | -              | 46                         | -14.71               |

Qp - Quasi-Peak detector  
Ca - CISPR average detection



### 9.3. STANDBY MODE POWERED BY HOST PC VIA USB CABLE

#### LINE 1 RESULTS

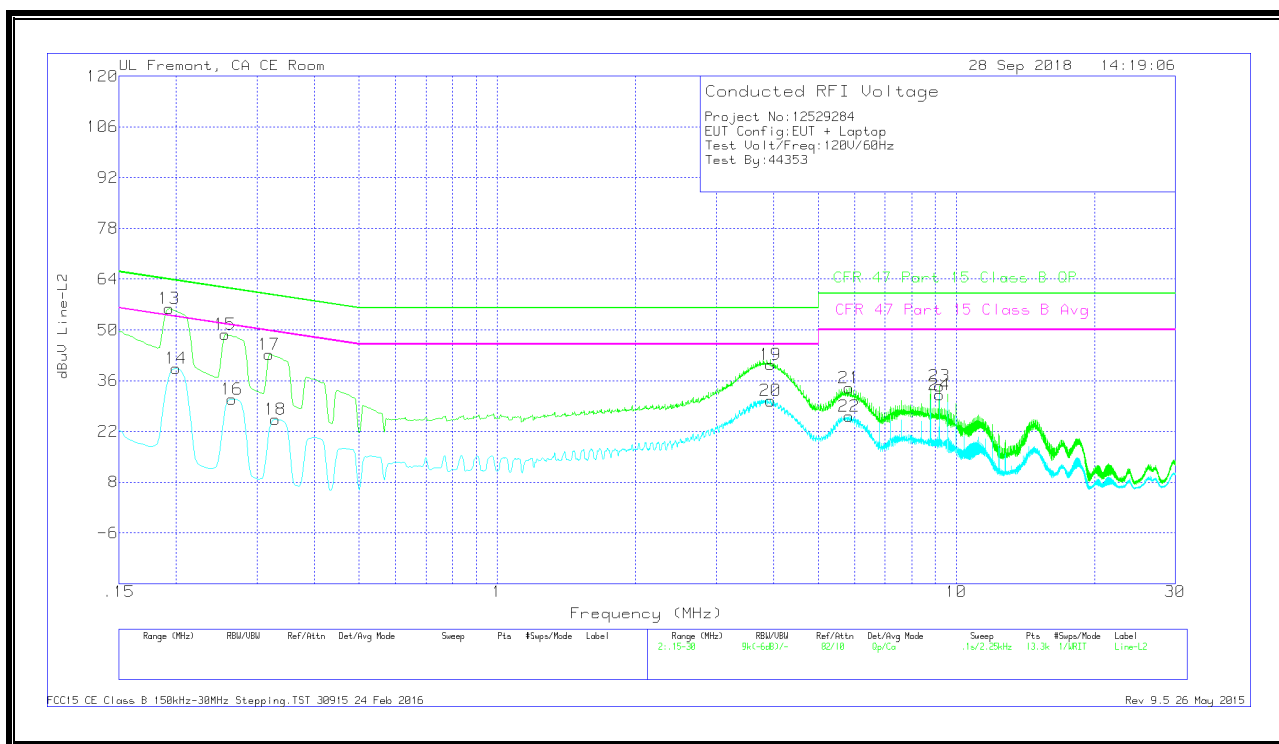


#### WORST EMISSIONS

| Range 1: Line-L1 .15 - 30MHz |                 |                      |     |         |                 |              |                        |                           |                |                            |                       |
|------------------------------|-----------------|----------------------|-----|---------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L1 | LC Cables C1&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR )Margin (dB) |
| 1                            | .19275          | 46.9                 | Qp  | 0       | 0               | 10.1         | 57                     | 63.92                     | -6.92          | -                          | -                     |
| 2                            | .1995           | 30.45                | Ca  | 0       | 0               | 10.1         | 40.55                  | -                         | -              | 53.63                      | -13.08                |
| 3                            | .25575          | 38.22                | Qp  | 0       | 0               | 10.1         | 48.32                  | 61.57                     | -13.25         | -                          | -                     |
| 4                            | .26588          | 20.99                | Ca  | 0       | 0               | 10.1         | 31.09                  | -                         | -              | 51.25                      | -20.16                |
| 5                            | .321            | 33.33                | Qp  | 0       | 0               | 10.1         | 43.43                  | 59.68                     | -16.25         | -                          | -                     |
| 6                            | .33225          | 15.78                | Ca  | 0       | 0               | 10.1         | 25.88                  | -                         | -              | 49.39                      | -23.51                |
| 7                            | .384            | 28.04                | Qp  | 0       | 0               | 10.1         | 38.14                  | 58.19                     | -20.05         | -                          | -                     |
| 8                            | .39975          | 10.92                | Ca  | 0       | 0               | 10.1         | 21.02                  | -                         | -              | 47.86                      | -26.84                |
| 9                            | 3.813           | 29.02                | Qp  | 0       | .1              | 10.1         | 39.22                  | 56                        | -16.78         | -                          | -                     |
| 10                           | 3.8265          | 17.06                | Ca  | 0       | .1              | 10.1         | 27.26                  | -                         | -              | 46                         | -18.74                |
| 11                           | 9.18825         | 24.03                | Qp  | 0       | .2              | 10.2         | 34.43                  | 60                        | -25.57         | -                          | -                     |
| 12                           | 9.18825         | 22.42                | Ca  | 0       | .2              | 10.2         | 32.82                  | -                         | -              | 50                         | -17.18                |

Qp - Quasi-Peak detector  
Ca - CISPR average detection

## LINE 2 RESULTS



## WORST EMISSIONS

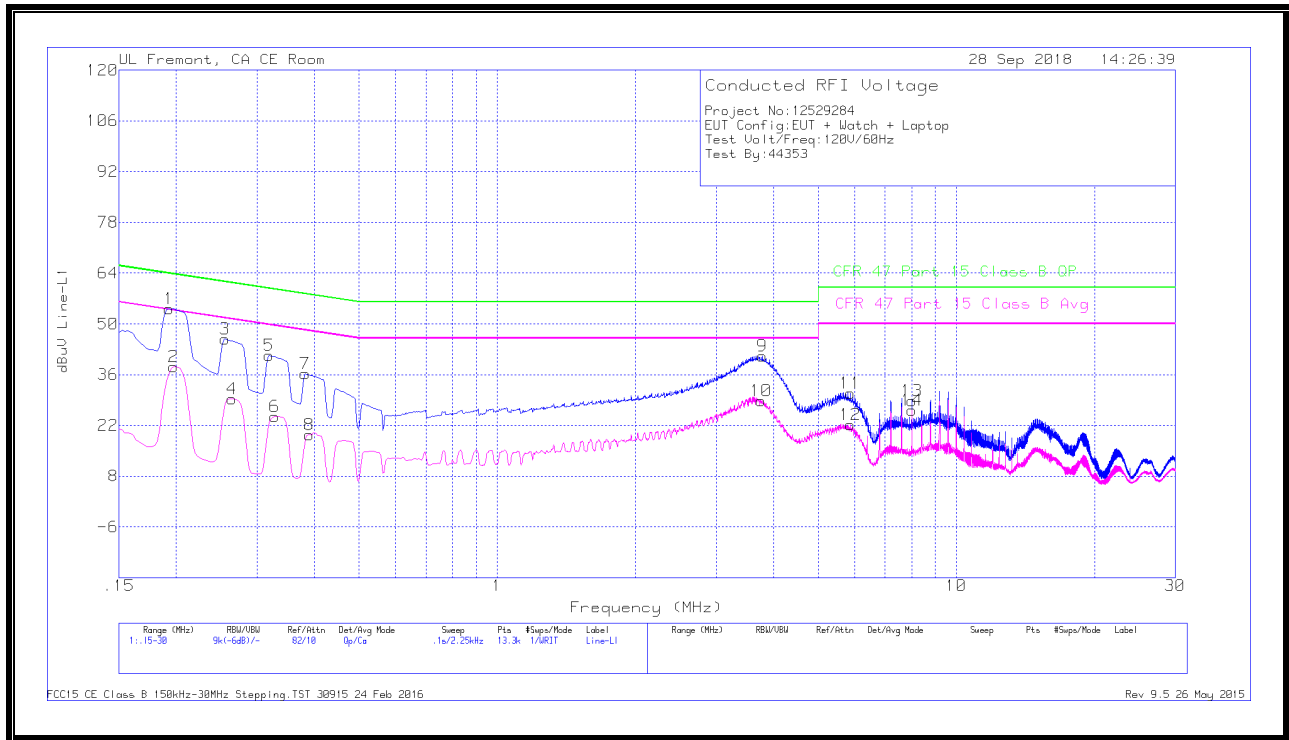
| Range 2: Line-L2 .15 - 30MHz |                 |                      |     |         |                 |              |                        |                           |                |                            |                      |
|------------------------------|-----------------|----------------------|-----|---------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L2 | LC Cables C2&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)Margin (dB) |
| 13                           | .19275          | 45.84                | Qp  | 0       | 0               | 10.1         | 55.94                  | 63.92                     | -7.98          | -                          | -                    |
| 14                           | .1995           | 29.26                | Ca  | 0       | 0               | 10.1         | 39.36                  | -                         | -              | 53.63                      | -14.27               |
| 15                           | .25575          | 38.64                | Qp  | 0       | 0               | 10.1         | 48.74                  | 61.57                     | -12.83         | -                          | -                    |
| 16                           | .26475          | 20.83                | Ca  | 0       | 0               | 10.1         | 30.93                  | -                         | -              | 51.28                      | -20.35               |
| 17                           | .31875          | 33.12                | Qp  | 0       | 0               | 10.1         | 43.22                  | 59.74                     | -16.52         | -                          | -                    |
| 18                           | .32887          | 15.16                | Ca  | 0       | 0               | 10.1         | 25.26                  | -                         | -              | 49.48                      | -24.22               |
| 19                           | 3.94125         | 30.3                 | Qp  | 0       | .1              | 10.1         | 40.5                   | 56                        | -15.5          | -                          | -                    |
| 20                           | 3.94125         | 20.25                | Ca  | 0       | .1              | 10.1         | 30.45                  | -                         | -              | 46                         | -15.55               |
| 21                           | 5.83575         | 23.57                | Qp  | 0       | .2              | 10.2         | 33.97                  | 60                        | -26.03         | -                          | -                    |
| 22                           | 5.838           | 15.79                | Ca  | 0       | .2              | 10.2         | 26.19                  | -                         | -              | 50                         | -23.81               |
| 23                           | 9.18825         | 24.07                | Qp  | 0       | .2              | 10.2         | 34.47                  | 60                        | -25.53         | -                          | -                    |
| 24                           | 9.18825         | 21.73                | Ca  | 0       | .2              | 10.2         | 32.13                  | -                         | -              | 50                         | -17.87               |

Qp - Quasi-Peak detector

Ca - CISPR average detection

## 9.4. OPERATING MODE POWERED BY HOST PC VIA USB CABLE

### LINE 1 RESULTS

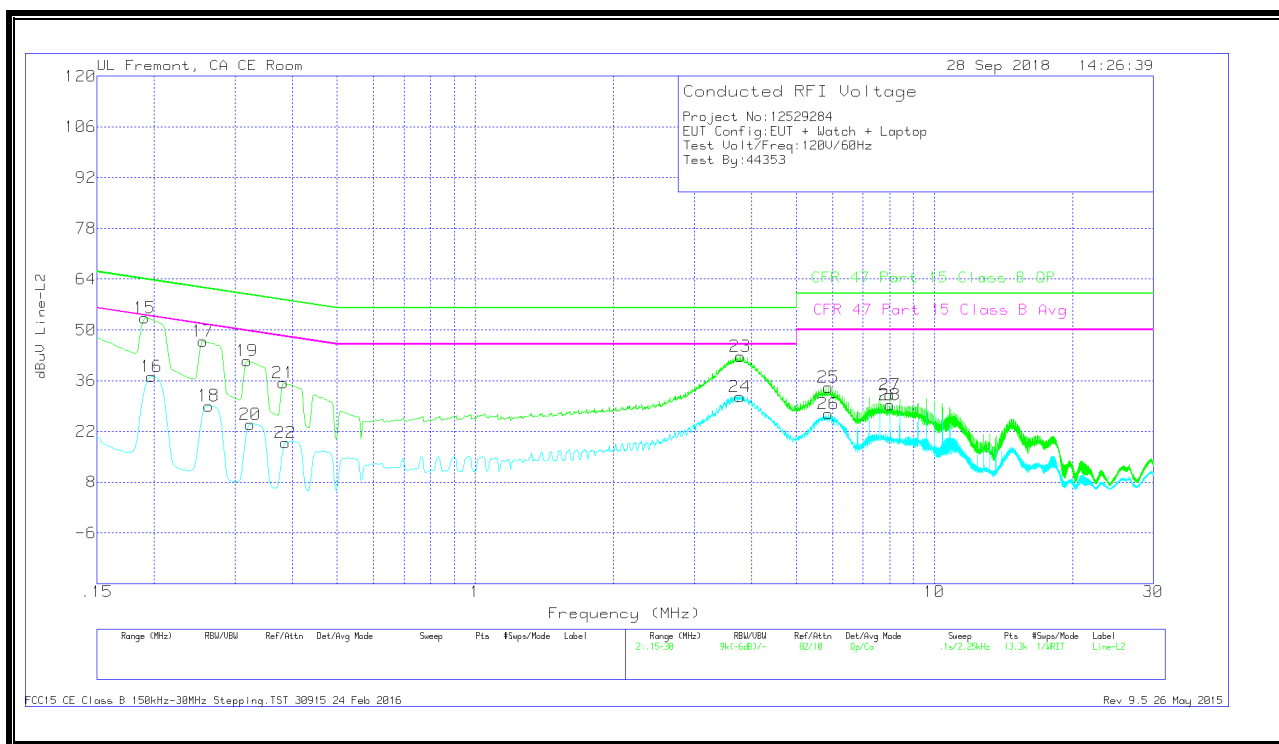


### WORST EMISSIONS

| Range 1: Line-L1 .15 - 30MHz |                 |                      |     |         |                 |              |                        |                           |                |                            |                       |
|------------------------------|-----------------|----------------------|-----|---------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L1 | LC Cables C1&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR )Margin (dB) |
| 1                            | .19275          | 44.02                | Qp  | 0       | 0               | 10.1         | 54.12                  | 63.92                     | -9.8           | -                          | -                     |
| 2                            | .19725          | 28.02                | Ca  | 0       | 0               | 10.1         | 38.12                  | -                         | -              | 53.73                      | -15.61                |
| 3                            | .25575          | 35.75                | Qp  | 0       | 0               | 10.1         | 45.85                  | 61.57                     | -15.72         | -                          | -                     |
| 4                            | .26475          | 19.22                | Ca  | 0       | 0               | 10.1         | 29.32                  | -                         | -              | 51.28                      | -21.96                |
| 5                            | .31875          | 31.14                | Qp  | 0       | 0               | 10.1         | 41.24                  | 59.74                     | -18.5          | -                          | -                     |
| 6                            | .32775          | 14.3                 | Ca  | 0       | 0               | 10.1         | 24.4                   | -                         | -              | 49.51                      | -25.11                |
| 7                            | .38175          | 26.1                 | Qp  | 0       | 0               | 10.1         | 36.2                   | 58.24                     | -22.04         | -                          | -                     |
| 8                            | .38962          | 9.26                 | Ca  | 0       | 0               | 10.1         | 19.36                  | -                         | -              | 48.07                      | -28.71                |
| 9                            | 3.77925         | 30.88                | Qp  | 0       | .1              | 10.1         | 41.08                  | 56                        | -14.92         | -                          | -                     |
| 10                           | 3.75225         | 18.63                | Ca  | 0       | .1              | 10.1         | 28.83                  | -                         | -              | 46                         | -17.17                |
| 11                           | 5.8785          | 20.44                | Qp  | 0       | .2              | 10.2         | 30.84                  | 60                        | -29.16         | -                          | -                     |
| 12                           | 5.87625         | 11.79                | Ca  | 0       | .2              | 10.2         | 22.19                  | -                         | -              | 50                         | -27.81                |
| 13                           | 8.00475         | 18.36                | Qp  | 0       | .2              | 10.2         | 28.76                  | 60                        | -31.24         | -                          | -                     |
| 14                           | 8.0025          | 15.73                | Ca  | 0       | .2              | 10.2         | 26.13                  | -                         | -              | 50                         | -23.87                |

Qp - Quasi-Peak detector  
Ca - CISPR average detection

## LINE 2 RESULTS



## WORST EMISSIONS

| Range 2: Line-L2 .15 - 30MHz |                 |                      |     |         |                 |              |                        |                           |                |                            |                      |
|------------------------------|-----------------|----------------------|-----|---------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L2 | LC Cables C2&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)Margin (dB) |
| 15                           | .1905           | 43.26                | Qp  | 0       | 0               | 10.1         | 53.36                  | 64.01                     | -10.65         | -                          | -                    |
| 16                           | .19725          | 27.04                | Ca  | 0       | 0               | 10.1         | 37.14                  | -                         | -              | 53.73                      | -16.59               |
| 17                           | .25575          | 36.75                | Qp  | 0       | 0               | 10.1         | 46.85                  | 61.57                     | -14.72         | -                          | -                    |
| 18                           | .2625           | 18.95                | Ca  | 0       | 0               | 10.1         | 29.05                  | -                         | -              | 51.35                      | -22.3                |
| 19                           | .31875          | 31.37                | Qp  | 0       | 0               | 10.1         | 41.47                  | 59.74                     | -18.27         | -                          | -                    |
| 20                           | .32325          | 13.79                | Ca  | 0       | 0               | 10.1         | 23.89                  | -                         | -              | 49.62                      | -25.73               |
| 21                           | .38175          | 25.29                | Qp  | 0       | 0               | 10.1         | 35.39                  | 58.24                     | -22.85         | -                          | -                    |
| 22                           | .38625          | 8.86                 | Ca  | 0       | 0               | 10.1         | 18.96                  | -                         | -              | 48.14                      | -29.18               |
| 23                           | 3.777           | 32.56                | Qp  | 0       | .1              | 10.1         | 42.76                  | 56                        | -13.24         | -                          | -                    |
| 24                           | 3.77475         | 21.37                | Ca  | 0       | .1              | 10.1         | 31.57                  | -                         | -              | 46                         | -14.43               |
| 25                           | 5.874           | 23.82                | Qp  | 0       | .2              | 10.2         | 34.22                  | 60                        | -25.78         | -                          | -                    |
| 26                           | 5.874           | 16.5                 | Ca  | 0       | .2              | 10.2         | 26.9                   | -                         | -              | 50                         | -23.1                |
| 27                           | 8.00925         | 21.68                | Qp  | 0       | .2              | 10.2         | 32.08                  | 60                        | -27.92         | -                          | -                    |
| 28                           | 8.00925         | 18.84                | Ca  | 0       | .2              | 10.2         | 29.24                  | -                         | -              | 50                         | -20.76               |

Qp - Quasi-Peak detector  
Ca - CISPR average detection

END OF REPORT

## 10. SETUP PHOTOS

Please refer to 12529284-EP1V1 for setup photos