

FCC PART 15 B TEST REPORT

For

Iconnect

No.9, Aly. 58, Ln. 112, Ruiguang Rd., Neihu Dist., Taipei City, Taiwan

FCC ID: 2AB87934

Report Type: Product Type:

Original Report Concurrent Dual-Radios

2.4GHz+5GHz MIMO AP/CPE

Sola Hugof

Test Engineer: Allen Qiao

Report Number: RDG150401005-00C

Report Date: 2015-04-16

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Reviewed By: RF Leader

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Iconnect* 's product, model number: *AP120C (FCC ID: 2AB87934) or* ("EUT") in this report is a *Concurrent Dual-Radios 2.4GHz+5GHz MIMO AP/CPE*, which was measured approximately: 19.5 cm (L) x 19.5 cm (W) x4.7 cm (H), rated input voltage: DC 12V from adapter or DC48V from POE.

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Adapter Information: Sunny Model: SYS1308-2412-W2

Input: AC 100-240V, 50/60Hz, MAX 1.0A

Output: DC 12V, 2.0A

Note: The series product, model AP120C, Matrix-Pro, Matrix, AP120C-AC, Matrix-Pro-AC, Matrix-AC, AP120C-ACU, AP120RC, AP120RC-AC, AP120RC-ACU are electrically identical, the difference between them is just the model name, we selected AP120C for fully testing, the details was explained in the attached declaration letter.

* All measurement and test data in this report was gathered from production sample serial number: 153UAP12C0007(Assigned by Applicant). The EUT was received on 2015-04-03.

Objective

This test report is prepared on behalf of *Iconnect* in accordance with Part 2, Subpart J, and Part 15-Subparts A and B of the Federal Communications Commission's rules.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15 B Class B.

Related Submittal(s)/Grant(s)

FCC Part 15C DTS submissions with FCC ID: 2AB87934.

FCC Part 15E NII submissions with FCC ID: 2AB87934.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan).

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Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

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Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 06, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

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EUT Exercise Software

N/A

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|-----------------------------------|------------|----------------------|
| DELL | Laptop | PP11L | QDS-BRCM1017 |
| HP | Printer | C3941A | JPTVOB2337 |
| DELL | Keyboard | L100 | CNORH656658907BL05DC |
| SAST | Modem | AEM-2100 | 0293 |
| ALFA | 802.3af/at Gigabit PoE Adapter | PSE-1000GU | 1411-0002460 |

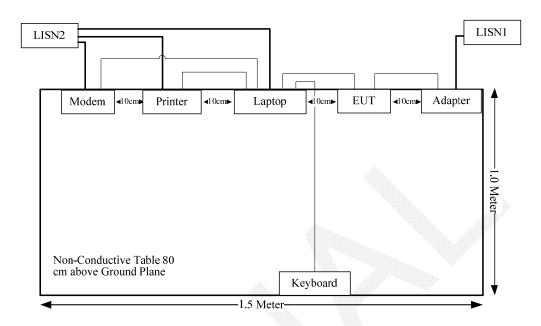
Support Cable List and Details

| Cable Description | Shielding Type | Ferrite Core | Length (m) | From | То |
|-------------------|-------------------|--------------|------------|-------------------------|----------|
| Serial Cable | Yes | No | 1.2 | Serial Port of Laptop | Modem |
| Parallel Cable | Yes | No | 1.2 | Parallel Port of Laptop | Printer |
| Keyboard Cable | Yes | No | 1.8 | USB Port of Laptop | Keyboard |
| RJ45 Cable | No | No | 0.8 | RJ45 Port of Laptop | EUT |
| Adapter Cable | No | No | 1.5 | DC Jack of EUT | Adapter |
| RJ45 Cable | No | No | 1.5 | POE | EUT |
| RJ45 Cable | No | No | 1.5 | POE | Laptop |

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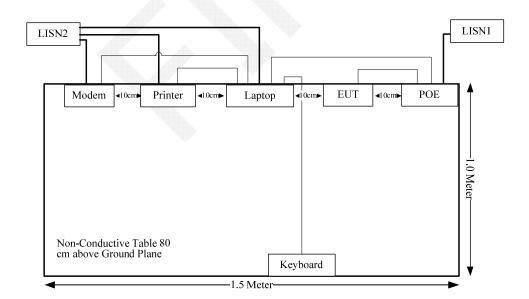
Configuration of Test Setup

Powered by Adapter:



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Powered by POE:



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SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Results |
|-----------|---------------------|------------|
| §15.107 | Conducted Emissions | Compliance |
| §15.109 | Radiated Emissions | Compliance |

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FCC§15.107 - CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are Receiver, cable loss, and LISN.

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

- -compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- -non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} of Table 1, then:

-compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit;

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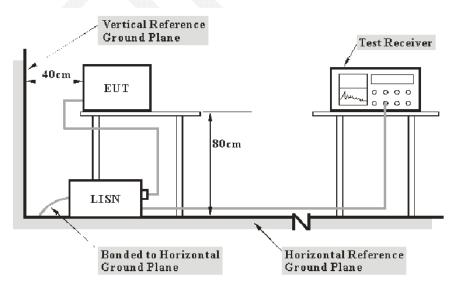
-non - compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cispr}

| Measurement | $U_{ m cispr}$ |
|---|----------------|
| Conducted disturbance at mains port using AMN (150 kHz to 30 MHz) | 3.4 dB |

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

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The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter was connected to a 120V/60Hz AC power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz |

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date | | | |
|--------------|-----------------------|---------|---------------|---------------------|-------------------------|--|--|--|
| R&S | EMI Test Receiver | ESCS 30 | 830245/006 | 2014-10-20 | 2015-10-20 | | | |
| R&S | L.I.S.N | ESH2-Z5 | 892107/021 | 2014-06-09 | 2015-06-09 | | | |
| R&S | Two-line V-network | ENV 216 | 3560.6550.12 | 2014-12-11 | 2015-12-11 | | | |
| R&S | Test Software | EMC32 | Version8.53.0 | N/A | N/A | | | |

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

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Herein,

V_C: corrected voltage amplitude

V_R: reading voltage amplitude

A_c: attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

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Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15 B Class B, with the worst margin reading of:

3.5 dB at 0.264113 MHz in the Neutral conducted mode for powered by POE.

Test Data

Environmental Conditions

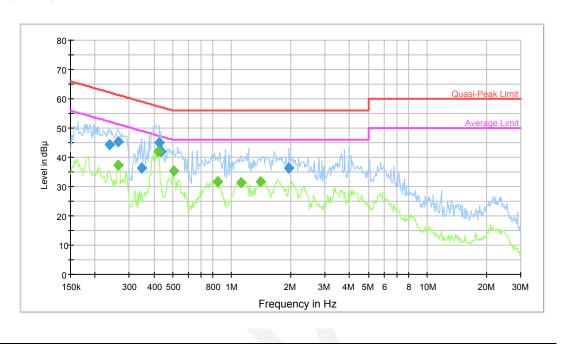
| Temperature: | 26.2 °C |
|--------------------|----------|
| Relative Humidity: | 64 % |
| ATM Pressure: | 100.1kPa |

The testing was performed by Allen Qiao on 2015-04-03.

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Test Mode: Powered Adapter

AC120V, 60Hz, Line:



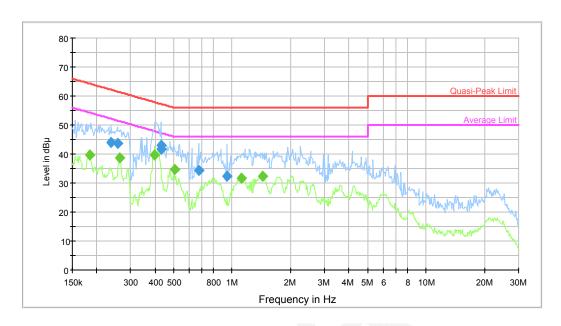
Report No.: RDG150401005-00C

| Frequency (MHz) | QuasiPeak (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|-----------------|---------------------|--------------------|------|------------|-------------|--------------|------------|
| 0.238124 | 44.4 | 9.000 | L1 | 10.2 | 17.8 | 62.2 | Compliance |
| 0.262017 | 45.4 | 9.000 | L1 | 10.2 | 16.0 | 61.4 | Compliance |
| 0.346296 | 36.5 | 9.000 | L1 | 10.3 | 22.6 | 59.1 | Compliance |
| 0.426011 | 45.0 | 9.000 | L1 | 10.2 | 12.3 | 57.3 | Compliance |
| 0.436318 | 42.0 | 9.000 | L1 | 10.2 | 15.1 | 57.1 | Compliance |
| 1.967177 | 36.4 | 9.000 | L1 | 10.4 | 19.6 | 56.0 | Compliance |

| Frequency (MHz) | Average (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|-----------------|-------------------|--------------------|------|------------|-------------|--------------|------------|
| 0.264113 | 37.2 | 9.000 | L1 | 10.2 | 14.1 | 51.3 | Compliance |
| 0.419276 | 41.9 | 9.000 | L1 | 10.2 | 5.6 | 47.5 | Compliance |
| 0.503608 | 35.4 | 9.000 | L1 | 10.1 | 10.6 | 46.0 | Compliance |
| 0.845331 | 31.5 | 9.000 | L1 | 10.4 | 14.5 | 46.0 | Compliance |
| 1.117238 | 31.4 | 9.000 | L1 | 10.4 | 14.6 | 46.0 | Compliance |
| 1.407671 | 31.8 | 9.000 | L1 | 10.4 | 14.2 | 46.0 | Compliance |

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AC120V, 60Hz, Neutral:



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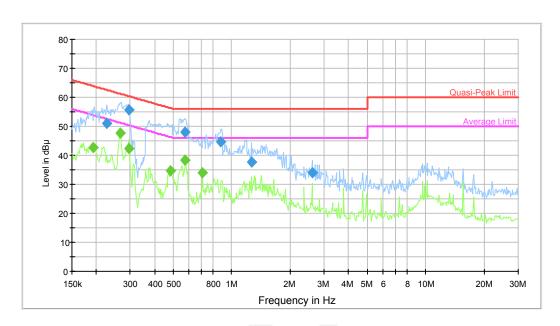
| Frequency (MHz) | QuasiPeak (dBµV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|--------------------|---------------------|--------------------|------|------------|----------------|--------------|------------|
| 0.238124 | 44.2 | 9.000 | N | 10.2 | 18.0 | 62.2 | Compliance |
| 0.255827 | 43.5 | 9.000 | N | 10.2 | 18.1 | 61.6 | Compliance |
| 0.429420 | 43.0 | 9.000 | N | 10.2 | 14.3 | 57.3 | Compliance |
| 0.432855 | 41.8 | 9.000 | N | 10.2 | 15.4 | 57.2 | Compliance |
| 0.670921 | 34.5 | 9.000 | N | 10.4 | 21.5 | 56.0 | Compliance |
| 0.945093 | 32.4 | 9.000 | N | 10.4 | 23.6 | 56.0 | Compliance |

| Frequency (MHz) | Average (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|--------------------|-------------------|--------------------|------|------------|-------------|--------------|------------|
| 0.184529 | 39.5 | 9.000 | N | 10.2 | 14.8 | 54.3 | Compliance |
| 0.262017 | 38.6 | 9.000 | N | 10.2 | 12.8 | 51.4 | Compliance |
| 0.399703 | 39.6 | 9.000 | N | 10.2 | 8.3 | 47.9 | Compliance |
| 0.503608 | 34.8 | 9.000 | N | 10.1 | 11.2 | 46.0 | Compliance |
| 1.117238 | 31.8 | 9.000 | N | 10.4 | 14.2 | 46.0 | Compliance |
| 1.430284 | 32.5 | 9.000 | N | 10.4 | 13.5 | 46.0 | Compliance |

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Test Mode: Powered by POE

AC120V, 60Hz, Line:



Report No.: RDG150401005-00C

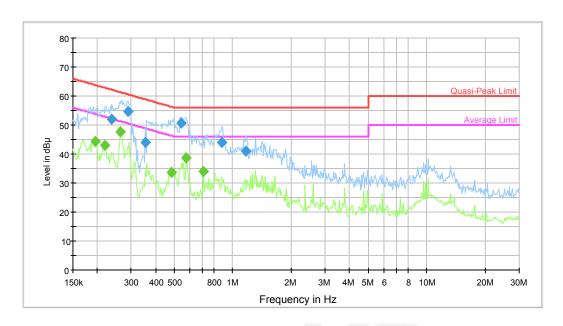
| Frequency (MHz) | QuasiPeak (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|--------------------|---------------------|--------------------|------|---------------|----------------|--------------|------------|
| 0.227007 | 51.1 | 9.000 | L1 | 10.2 | 11.5 | 62.6 | Compliance |
| 0.295282 | 55.7 | 9.000 | L1 | 10.3 | 4.7* | 60.4 | Compliance |
| 0.576662 | 48.1 | 9.000 | L1 | 10.2 | 7.9 | 56.0 | Compliance |
| 0.879690 | 44.7 | 9.000 | L1 | 10.4 | 11.3 | 56.0 | Compliance |
| 1.259081 | 37.8 | 9.000 | L1 | 10.4 | 18.2 | 56.0 | Compliance |
| 2.599932 | 34.0 | 9.000 | L1 | 10.5 | 22.0 | 56.0 | Compliance |

| Frequency (MHz) | Average (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|--------------------|-------------------|--------------------|------|------------|-------------|-----------------|------------|
| 0.193566 | 42.8 | 9.000 | L1 | 10.2 | 11.1 | 53.9 | Compliance |
| 0.266226 | 47.5 | 9.000 | L1 | 10.2 | 3.7* | 51.2 | Compliance |
| 0.295282 | 42.4 | 9.000 | L1 | 10.3 | 8.0 | 50.4 | Compliance |
| 0.483938 | 34.7 | 9.000 | L1 | 10.1 | 11.6 | 46.3 | Compliance |
| 0.576662 | 38.2 | 9.000 | L1 | 10.2 | 7.8 | 46.0 | Compliance |
| 0.709407 | 34.1 | 9.000 | L1 | 10.5 | 11.9 | 46.0 | Compliance |

 $[*]Within\ measurement\ uncertainty!$

FCC Part 15 B

AC120V, 60Hz, Neutral:



Report No.: RDG150401005-00C

| Frequency (MHz) | QuasiPeak (dBµV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|--------------------|---------------------|--------------------|------|------------|-------------|--------------|------------|
| 0.238124 | 52.0 | 9.000 | N | 10.2 | 10.2 | 62.2 | Compliance |
| 0.288307 | 54.8 | 9.000 | N | 10.3 | 5.8 | 60.6 | Compliance |
| 0.354674 | 44.1 | 9.000 | N | 10.3 | 14.8 | 58.9 | Compliance |
| 0.541050 | 50.7 | 9.000 | N | 10.1 | 5.3 | 56.0 | Compliance |
| 0.872708 | 44.0 | 9.000 | N | 10.4 | 12.0 | 56.0 | Compliance |
| 1.171949 | 41.1 | 9.000 | N | 10.4 | 14.9 | 56.0 | Compliance |

| Frequency (MHz) | Average (dBµV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|--------------------|-------------------|--------------------|------|------------|-------------|--------------|------------|
| 0.195114 | 44.3 | 9.000 | N | 10.2 | 9.5 | 53.8 | Compliance |
| 0.219886 | 43.2 | 9.000 | N | 10.2 | 9.7 | 52.8 | Compliance |
| 0.264113 | 47.8 | 9.000 | N | 10.2 | 3.5* | 51.3 | Compliance |
| 0.483938 | 33.8 | 9.000 | N | 10.1 | 12.5 | 46.3 | Compliance |
| 0.576662 | 38.8 | 9.000 | N | 10.2 | 7.2 | 46.0 | Compliance |
| 0.709407 | 34.1 | 9.000 | N | 10.4 | 11.9 | 46.0 | Compliance |

 $^{{}^*}Within\ measurement\ uncertainty!$

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FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

- -compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- -non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If U_{lab} is greater than U_{cispr} of Table 1, then:
- -compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} U_{cispr})$, exceeds the disturbance limit;

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-non - compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit.

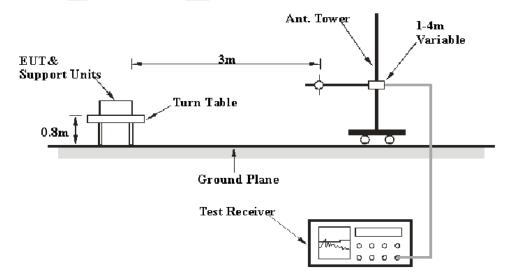
Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:30M~200MHz: 5.0 dB; 200M~1GHz: 6.2 dB; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB

Table 1 – Values of U_{cispr}

| Measurement | $U_{ m cispr}$ |
|---|----------------|
| Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 M | MHz) 6.3 dB |
| Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz) | 5.2 dB |
| Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz) | 5.5 dB |

EUT Setup

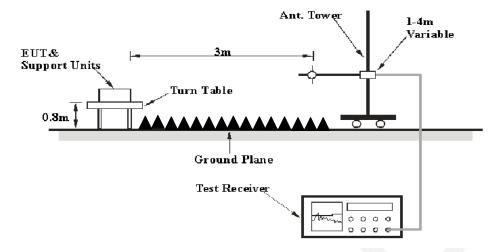
Below 1GHz:



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Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC Part 15.109 Class B limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 6 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | RBW | Video B/W | IF B/W | Detector |
|-------------------|---------|-----------|---------|----------|
| 30 MHz – 1000 MHz | 120 kHz | 300 kHz | 120 kHz | QP |
| Above 1 GHz | 1 MHz | 3 MHz | / | Peak |
| Above I GHZ | 1 MHz | 10 Hz | / | Ave. |

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Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

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The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-------------------|-------------------|------------|------------------|---------------------|-------------------------|
| R&S | EMI Test Receiver | ESCI | 100224 | 2014-05-09 | 2015-05-09 |
| Sunol Sciences | Antenna | ЈВ3 | A060611-3 | 2014-11-06 | 2017-11-05 |
| HP | Amplifier | 8447E | 2434A02181 | 2014-09-01 | 2015-09-01 |
| Agilent | Spectrum Analyzer | E4440A | SG43360054 | 2014-12-04 | 2015-12-04 |
| ETS-Lindgren | Horn Antenna | 3115 | 000 527 35 | 2012-09-06 | 2015-09-06 |
| Mini-Circuit | Amplifier | ZVA-213-S+ | 054201245 | 2015-02-19 | 2016-02-19 |

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Loss + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15 B Class B, with the worst margin reading of:

5.3 dB at **62.0100 MHz** in the **Vertical** polarization for powered by adapter.

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Test Data

Environmental Conditions

| Temperature: | 23.7 -23.6°C |
|--------------------|-----------------|
| Relative Humidity: | 70-66 % |
| ATM Pressure: | 100.3-101.3 kPa |

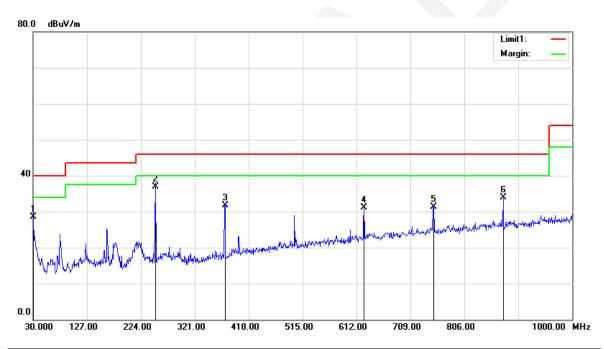
The testing was performed by Allen Qiao on 2015-04-03 and 2015-04-11.

Test Result: Compliance

1) Below 1G:

Test Mode: Powered by Adapter

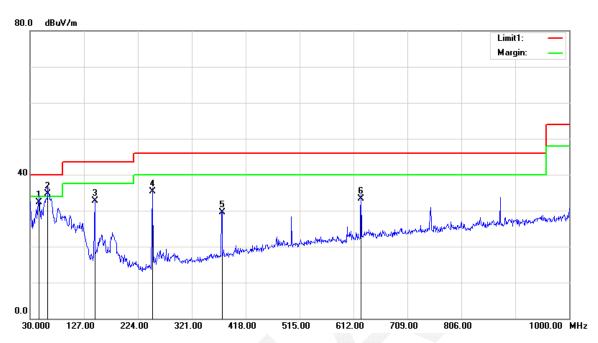
Horizontal



Report No.: RDG150401005-00C

| Frequency (MHz) | Receiver Reading (dBµV) | Detector (PK/QP/Ave) | Correction Factor (dB/m) | Cord. Amp. (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|-------------------------------|-------------------------|--------------------------------|---------------------------|-------------------|----------------|
| 30.0000 | 25.22 | QP | 3.38 | 28.60 | 40.00 | 11.40 |
| 250.1900 | 44.96 | QP | -7.96 | 37.00 | 46.00 | 9.00 |
| 375.3200 | 36.06 | QP | -4.26 | 31.80 | 46.00 | 14.20 |
| 625.5800 | 31.07 | QP | 0.13 | 31.20 | 46.00 | 14.80 |
| 750.7100 | 29.47 | QP | 1.83 | 31.30 | 46.00 | 14.70 |
| 875.8400 | 30.80 | QP | 3.10 | 33.90 | 46.00 | 12.10 |

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Report No.: RDG150401005-00C

| Frequency (MHz) | Receiver Reading (dBµV) | Detector (PK/QP/Ave) | Correction Factor (dB/m) | Cord. Amp. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | | |
|--------------------|-------------------------------|-------------------------|--------------------------------|---------------------------|-------------------|----------------|--|--|
| 46.4900 | 42.96 | QP | -10.66 | 32.30 | 40.00 | 7.70 | | |
| 62.0100 | 47.23 | QP | -12.53 | 34.70 | 40.00 | 5.30* | | |
| 146.4000 | 39.83 | QP | -7.13 | 32.70 | 43.50 | 10.80 | | |
| 250.1900 | 43.36 | QP | -7.96 | 35.40 | 46.00 | 10.60 | | |
| 375.3200 | 33.76 | QP | -4.26 | 29.50 | 46.00 | 16.50 | | |
| 625.5800 | 33.27 | QP | 0.13 | 33.40 | 46.00 | 12.60 | | |

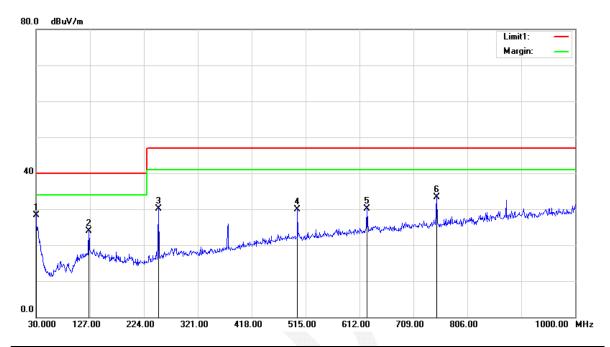
^{*}Within measurement uncertainty!

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Report No.: RDG150401005-00C

Test Mode: Powered by POE

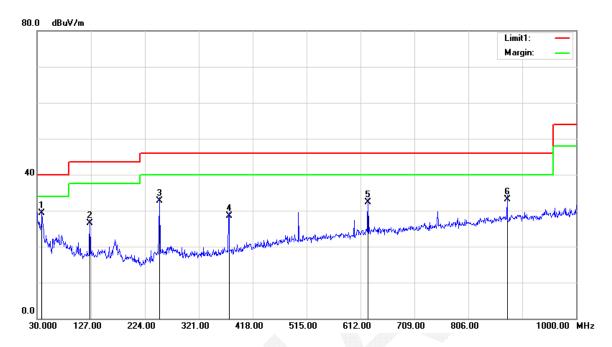
Horizontal



| Frequency (MHz) | Receiver Reading (dBµV) | Detector (PK/QP/Ave) | Correction Factor (dB/m) | Cord. Amp. (dBµV/m) | Limit (dBμV/m) | Margin (dB) |
|--------------------|-------------------------------|-------------------------|--------------------------------|---------------------------|-------------------|----------------|
| 30.0000 | 25.02 | QP | 3.38 | 28.40 | 40.00 | 11.60 |
| 125.0600 | 29.48 | QP | -5.58 | 23.90 | 40.00 | 16.10 |
| 250.1900 | 38.06 | QP | -7.96 | 30.10 | 47.00 | 16.90 |
| 500.4500 | 31.60 | QP | -1.60 | 30.00 | 47.00 | 17.00 |
| 625.5800 | 30.07 | QP | 0.13 | 30.20 | 47.00 | 16.80 |
| 750.7100 | 31.47 | QP | 1.83 | 33.30 | 47.00 | 13.70 |

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Vertical

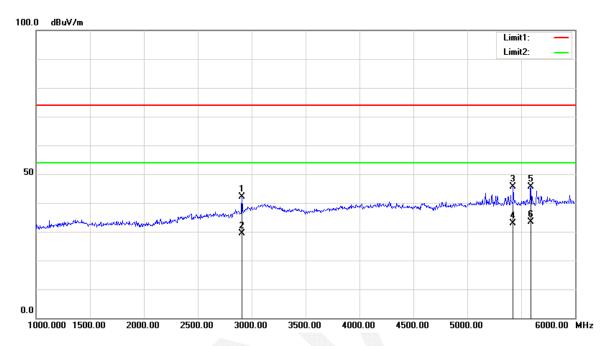


| Frequency (MHz) | Receiver Reading (dBµV) | Detector (PK/QP/Ave) | Correction Factor (dB/m) | Cord. Amp. (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|-------------------------------|-------------------------|--------------------------------|---------------------------|-------------------|----------------|
| 38.7300 | 34.67 | QP | -5.37 | 29.30 | 40.00 | 10.70 |
| 125.0600 | 32.18 | QP | -5.58 | 26.60 | 43.50 | 16.90 |
| 250.1900 | 40.66 | QP | -7.96 | 32.70 | 46.00 | 13.30 |
| 375.3200 | 32.86 | QP | -4.26 | 28.60 | 46.00 | 17.40 |
| 625.5800 | 32.27 | QP | 0.13 | 32.40 | 46.00 | 13.60 |
| 875.8400 | 30.10 | QP | 3.10 | 33.20 | 46.00 | 12.80 |

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Above 1G: (worst case)-Powered by adapter

Horizontal

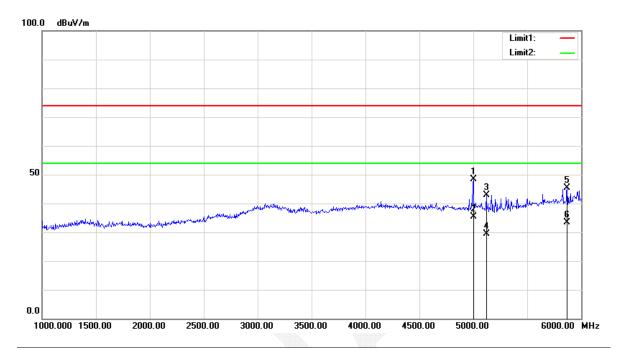


Report No.: RDG150401005-00C

| Frequency (MHz) | Receiver Reading (dBµV) | Detector (PK/QP/Ave) | Correction Factor (dB/m) | Cord. Amp. (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|--------------------|-------------------------------|-------------------------|--------------------------------|---------------------------|-------------------|----------------|
| 2912.500 | 36.55 | peak | 5.52 | 42.07 | 74.00 | 31.93 |
| 2912.500 | 23.84 | AVG | 5.52 | 29.36 | 54.00 | 24.64 |
| 5427.500 | 35.06 | peak | 10.51 | 45.57 | 74.00 | 28.43 |
| 5427.500 | 22.35 | AVG | 10.51 | 32.86 | 54.00 | 21.14 |
| 5590.000 | 34.66 | peak | 10.99 | 45.65 | 74.00 | 28.35 |
| 5590.000 | 22.33 | AVG | 10.99 | 33.32 | 54.00 | 20.68 |

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Vertical



Report No.: RDG150401005-00C

| Frequency (MHz) | Receiver Reading (dBµV) | Detector (PK/QP/Ave) | Correction Factor (dB/m) | Cord. Amp. (dBµV/m) | Limit (dBμV/m) | Margin (dB) |
|--------------------|-------------------------------|-------------------------|--------------------------------|---------------------------|-------------------|----------------|
| 5000.000 | 39.47 | peak | 8.87 | 48.34 | 74.00 | 25.66 |
| 5000.000 | 26.41 | AVG | 8.87 | 35.28 | 54.00 | 18.72 |
| 5120.000 | 33.24 | peak | 9.58 | 42.82 | 74.00 | 31.18 |
| 5120.000 | 19.75 | AVG | 9.58 | 29.33 | 54.00 | 24.67 |
| 5870.000 | 33.87 | peak | 11.42 | 45.29 | 74.00 | 28.71 |
| 5870.000 | 21.89 | AVG | 11.42 | 33.31 | 54.00 | 20.69 |

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DECLARATION LETTER

Declaration of Alteration

Report No.: RDG150401005-00C

To Whom It May Concern,

We, Iconnect, hereby declare that there are some differences between our Multiple Models and testing products. Details as below:

(This is for your reference only.)

| This is for your reference only. | | | | | | | | |
|----------------------------------|--------------|------------------------------|--|-------------|--------------------|--|--|--|
| | Name | | Concurrent Dual-Radios 2.4GHz+5GHz MIMO AP/CPE | | | | | |
| Products | Brand | | ALFA | | | | | |
| Description | Manufacturer | | Iconnect | | | | | |
| | Project No. | | RDG150401005 | | | | | |
| Differences Description | | | | | | | | |
| Testing Products | | Multiple Models | | Differences | Details | | | |
| | | | | Items | | | | |
| AP120C | | Matrix-Pro,Matrix,AP120C-AC, | | Model name | They are the same | | | |
| | | Matrix-Pro-AC,Matrix-AC, | | | product, and just | | | |
| AP12 | | AP120C-AC | U,AP120RC, | | have the different | | | |
| AP120RC-AC | | C,AP120RC-ACU | | model name. | | | | |

Notes: Testing products-the products tested by BACL

Multiple Model- have the same or similar appearance, structure, PCB, Material and function to the testing products, and only are different for little parameters.

Besides the differences in the table above, we declare the products are identical We guarantee all the information provided above is true, and notice that we'll bear all the consequences caused by any false information or concealing

Best Regards,

Signature:

Print Name: Johnson Wang

Title: Manager

ADD: No.9, Aly. 58, Ln. 112, Ruiguang Rd., Neihu Dist., Taipei City, Taiwan. Tel: 886-2-27968477 Fax: 886-2-27968478 E-mail: admin@iconnect.com.tw

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