FCC TEST REPORT for SHENZHEN APEXIS ELECTRONIC CO., LTD.

IP Camera Model No.: APM-J901-Z-WS-IRC

Prepared for : SHENZHEN APEXIS ELECTRONIC CO., LTD.

Address : 502 East Keji Building, Shenzhen High-Tech Ind-Park, Nanshan

District, Shenzhen, China

Prepared By : Anbotek Compliance Laboratory Limited

Address : 1/F, 1 /Building, SEC Industrial Park, No.4 Qianhai Road,

Nanshan District, Shenzhen, 518054, China

Tel: (86) 755-26014771 Fax: (86) 755-26014772

Report Number : 201203683F Date of Test : Mar. 02~14, 2012 Date of Report : Mar. 14, 2012

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TEST REPORT

Applicant : SHENZHEN APEXIS ELECTRONIC CO., LTD.

Manufacturer : SHENZHEN APEXIS ELECTRONIC CO., LTD.

EUT : IP Camera

Model No. : APM-J901-Z-WS-IRC

Serial No. : N/A

Rating : 12V===, 2A, 10W

Trade Mark : **apexis

Measurement Procedure Used:

FCC Part15 Subpart C, Paragraph 15.247: 2010

The device described above is tested by Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Anbotek Compliance Laboratory Limited

Date of Test:

Mar. 02~14, 2012

Prepared by:

Andy Chen

(Engineer / Andy Chen)

Reviewer:

Open Chen

(Project Manager / Jerry Du)

Approved & Authorized Signer:

Authorized Signer:

(Manager / Henry Yang)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : IP Camera

Model Number : APM-J901-Z-WS-IRC

Test Power Supply : 120V~, 60Hz for Adapter

Adapter : Power Supply

Model: SAW-0502000

Input: 100-240V~, 50-60Hz, 0.5A

Output: 5V===, 2000mA

RF Transmission

Frequency

: 2412-2462MHz(802.11b/g)

Channels : 11

Antenna Type : RPSMA-J Port

(It is a unique coupling to the interntional radiator, which considered

sufficient to comply with the provisions of 15.203)

Antenna Gain : 2dBi

Applicant : SHENZHEN APEXIS ELECTRONIC CO., LTD.

Address : 502 East Keji Building, Shenzhen High-Tech Ind-Park, Nanshan

District, Shenzhen, China

Manufacturer : SHENZHEN APEXIS ELECTRONIC CO., LTD.

Address : 502 East Keji Building, Shenzhen High-Tech Ind-Park, Nanshan

District, Shenzhen, China

Date of receiver : Mar. 02, 2012 Date of Test : Mar. 02~14, 2012

1.2. Auxiliary Equipment Used during Test

PC : Manufacturer: DELL

M/N: OPTIPLEX 380

S/N: 1J63X2X CE , FCC: DOC

MONITOR : Manufacturer: DELL

M/N: E170Sc

S/N: CN-00V539-64180-055-0UPS

CE, FCC: DOC

KEYBOARD : Manufacturer: DELL

M/N: SK-8115

S/N: CN-0DJ313-71616-06C-02XN

CE, FCC: DOC Cable: 1m, unshielded

MOUSE : Manufacturer: DELL

M/N: M-UARDEL7

S/N: N/A

CE, FCC: DOC

Cable: 1m, unshielded

Printer : Manufacturer:Brother

M/N: MFC-3360C

S/N: N/A

CE, FCC:DOC

Power Line : Non-Shielded, 1.5m

VGA Cable : Non-Shielded, 1.5m

Network Cable : Non-Shielded, 1.5m

1.3. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS - LAB Code: L3503

Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

FCC-Registration No.: 752021

Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, August 20, 2010.

IC-Registration No.: 8058A-1

Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A, August 30, 2010.

Test Location

All Emissions tests were performed at

Anbotek Compliance Laboratory Limited. at 1/F, 1 /Building, SEC Industrial Park, No.4 Qianhai Road, Nanshan District, Shenzhen, 518054, China

1.4. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.3dB

Conduction Uncertainty : Uc = 3.4dB

2. MEASURING DEVICE AND TEST EQUIPMENT

The following test equipments were used during test:

| The following | The following test equipments were used during test. | | | | | | | | |
|------------------------|--|---------|------------|--------------|-----------------|--|--|--|--|
| Equipment | Manufacturer | Model # | Serial # | Data of Cal. | Due Data | | | | |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 100119 | May.03, 2011 | May.02, 2012 | | | | |
| EMI Test Receiver | Rohde & Schwarz | ESIB26 | 100249 | Sep.22, 2011 | Sep.21, 2012 | | | | |
| EMI Test Software | SHURPLE | ESK1 | N/A | N/A | N/A | | | | |
| Spectrum Analyzer | Agilent | E7405A | MY45114970 | Jun.21, 2011 | Jun.20, 2012 | | | | |
| Signal Generator | Rohde & Schwarz | SMR27 | 100124 | Jul.06, 2011 | Jul.05, 2012 | | | | |
| Signal Generator | Rohde & Schwarz | SML03 | 102319 | Aug.01, 2011 | Aug.01, 2012 | | | | |
| AC Power Source | Sepcial power system | YF650 | N/A | N/A | N/A | | | | |
| Absorbing Clamp | Rohde & Schwarz | MDS21 | 100218 | Apr.30, 2011 | Apr.29, 2012 | | | | |
| Power Meter | Rohde & Schwarz | NRVD | 101287 | Jul.19, 2011 | Jul.18, 2012 | | | | |
| Coaxial Cable | N/A | N/A | N/A | May.31, 2011 | May.30, 2012 | | | | |
| Coaxial Cable | N/A | N/A | N/A | May.31, 2011 | May.30, 2012 | | | | |
| Coaxial Cable | N/A | N/A | N/A | May.31, 2011 | May.30, 2012 | | | | |
| Universal radio | | | | | | | | | |
| Communication | Rohde & Schwarz | CMU200 | 101724 | Sep.08, 2011 | Sep.07, 2012 | | | | |
| tester | | | | | | | | | |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | N/A | N/A | N/A | | | | |
| BiConilog Antenna | ETS-LINDGREN | 3142C | 00042670 | May.03, 2011 | May.02, 2012 | | | | |
| BiConilog Antenna | ETS-LINDGREN | 3142C | 00042673 | May.03, 2011 | May.02, 2012 | | | | |
| Loop Antenna | ETS-LINGREN | 6502 | 00071730 | May.03, 2011 | May.02, 2012 | | | | |
| Double-ridged | ETS-LINDGREN | 3117 | 00035926 | Dec.30, 2011 | Dec.29, 2012 | | | | |
| Waveguide horn | E15-LINDGKEN | 311/ | 00033920 | Dec.30, 2011 | Dec.29, 2012 | | | | |
| Double-ridged | ETS-LINDGREN | 3117 | 00041545 | Dec.30, 2011 | Dec.29, 2012 | | | | |
| Waveguide horn | E15-LINDGKEN | 311/ | 00041343 | Dec.30, 2011 | Dec.29, 2012 | | | | |
| Pre-amplifier | CD | PAM0203 | 804203 | Jun.21, 2011 | Jun.20, 2012 | | | | |
| RF Switch | CD | RSU-M3 | 706543 | Jun.21, 2011 | Jun.20, 2012 | | | | |
| Thermo-/Hygrometer | N/A | TH01 | N/A | May.03, 2011 | May.02, 2012 | | | | |
| Shielding Room | Zhong Yu Electronic | N/A | N/A | N/A | N/A | | | | |
| 3m Anechoic Chamber | Zhong Yu Electronic | N/A | N/A | Apr.28, 2011 | Apr.27, 2012 | | | | |

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4: 2009 and FCC Part 15, Paragraph 15.247

3.1. Summary of Test Results

The EUT has been tested according to the following specifications:

| Standard | Test Type | Result | Notes |
|--|---|--------|----------|
| FCC Part 15, Paragraph 15.107, 15.207 | Conducted Emission Test | PASS | Complies |
| FCC Part 15, Paragraph 15.247(b)(1) | Peak Output Power | PASS | Complies |
| FCC Part 15, Paragraph 15.247(a)(2) | 6dB Bandwidth | PASS | Complies |
| FCC Part 15, Paragraph 15.247(c) | 100kHz Bandwidth of Frequency Band Edges | PASS | Complies |
| FCC Part 15, Paragraph 15.209(a)(f) | Spurious Emission | PASS | Complies |
| FCC Part 15, Paragraph 15.247(a)(1) | Frequency Separation | - | N/A |
| FCC Part 15, Paragraph 15.247(a)(1)(iii) | Number of Hopping Frequency | - | N/A |
| FCC Part 15, Paragraph 15.247(a)(1)(iii) | Time of Occupancy | - | N/A |
| FCC Part 15, Paragraph 15.247(c) | Peak Power Density | PASS | Complies |

^{*} The digital circuit porting of the EUT has been tested and verified to comply with FCC Part 15, Subpart B., Class B Digital Devices and the associated Radio Receiver has also been tested and found to comply with FCC Part 15, Subpart B – Radio Receivers.

3.2. Description of Test Modes

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode isprogrammed. IEEE802.11b: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 11Mbps highest data rate (worst case) are chosen for the final testing.

IEEE802.11g: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 54Mbps data rate (the worst case) are chosen for the final testing.

3.3. List of channels:

√ - available

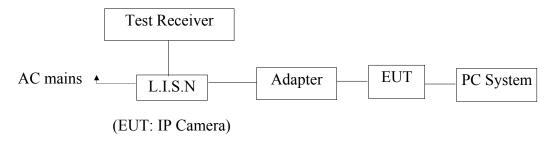
X - tested

| Number | Frequency(MHz) | 802.11 | b/g |
|--------|----------------|--------|-----|
| 1 | 2412 | √ | X |
| 2 | 2417 | √ | |
| 3 | 2422 | √ | |
| 4 | 2427 | √ | |
| 5 | 2432 | √ | |
| 6 | 2437 | √ | X |
| 7 | 2442 | √ | |
| 8 | 2447 | √ | |
| 9 | 2452 | √ | |
| 10 | 2457 | √ | |
| 11 | 2462 | √ | X |

4. Conducted Emission Test

4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



4.2. Power Line Conducted Emission Measurement Limits (15.207)

| Frequency | Limits $dB(\mu V)$ | | | | |
|--------------|--------------------|---------------|--|--|--|
| MHz | Quasi-peak Level | Average Level | | | |
| 0.15 ~ 0.50 | 66 ~ 56* | 56 ~ 46* | | | |
| 0.50 ~ 5.00 | 56 | 46 | | | |
| 5.00 ~ 30.00 | 60 | 50 | | | |

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

4.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

EUT : IP Camera

Model Number : APM-J901-Z-WS-IRC

Applicant : SHENZHEN APEXIS ELECTRONIC CO., LTD.

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT and simulator as shown as Section 4.1.
- 4.4.2. Turn on the power of all equipment.
- 4.4.3. Let the EUT work in test mode (ON) and measure it.

4.5. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test results are reported on Section 4.6.

4.6. Power Line Conducted Emission Measurement Results **PASS.**

The frequency range from 150KHz to 30 MHz is investigated.

Please refer the following pages.

CONDUCTED EMISSION TEST DATA

EUT: IP Camera M/N: APM-J901-Z-WS-IRC

Operating Condition: On

Test Site: 1# Shielded Room

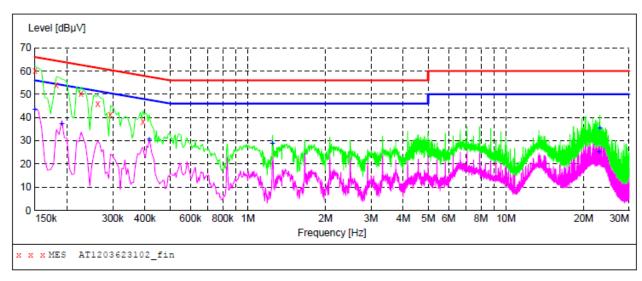
Operator: Andy Chen

Test Specification: AC 120V/60Hz for Adapter

Comment: Live Line

Tem:25℃ Hum:50%

SCAN TABLE: "Voltage(150K~30M) FIN"
Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "AT1203623102_fin"

| 3/6/2012 | 9:20AM | 1 | | | | | | |
|----------|-------------|---------------|--------------|---------------|--------------|----------|------|-----|
| Freque | ency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.150 | 0000 | 60.40 | 10.1 | 66 | 5.6 | QP | L1 | GND |
| 0.181 | L500 | 54.10 | 10.1 | 64 | 10.3 | QP | L1 | GND |
| 0.226 | 5500 | 50.20 | 10.1 | 63 | 12.4 | QP | L1 | GND |
| 0.262 | 2500 | 46.00 | 10.1 | 61 | 15.4 | QP | L1 | GND |
| 0.294 | 1000 | 41.30 | 10.1 | 60 | 19.1 | QP | L1 | GND |
| 0.393 | 3000 | 38.40 | 10.1 | 58 | 19.6 | QP | L1 | GND |

MEASUREMENT RESULT: "AT1203623102_fin2"

| 3/6/2012 | 9:20A | M | | | | | | |
|----------|-------------|---------------|--------------|---------------|--------------|----------|------|-----|
| Frequ | ency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.15 | 0000 | 43.20 | 10.1 | 56 | 12.8 | AV | L1 | GND |
| 0.19 | 0500 | 37.20 | 10.1 | 54 | 16.8 | AV | L1 | GND |
| 0.41 | 5500 | 30.40 | 10.1 | 48 | 17.1 | AV | L1 | GND |
| 1.24 | 7500 | 28.60 | 10.2 | 46 | 17.4 | AV | L1 | GND |
| 22.87 | 9000 | 25.00 | 10.8 | 50 | 25.0 | AV | L1 | GND |
| 23.13 | 1000 | 35.50 | 10.8 | 50 | 14.5 | AV | L1 | GND |

CONDUCTED EMISSION TEST DATA

EUT: IP Camera M/N: APM-J901-Z-WS-IRC

Operating Condition: On

Test Site: 1# Shielded Room

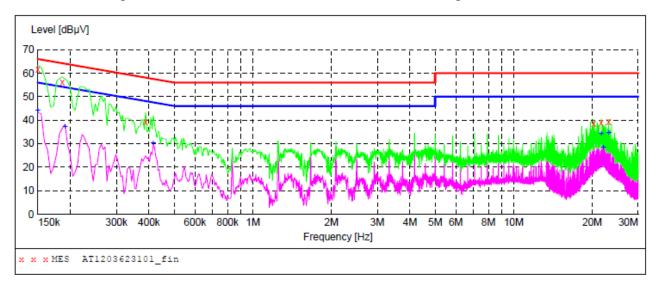
Operator: Andy Chen

Test Specification: AC 120V/60Hz for Adapter

Comment: **Neutral Line**

Tem:25℃ Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"
Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "AT1203623101_fin"

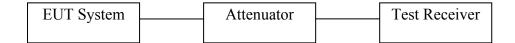
| 3/6/2012 9:14 | 1AM | | | | | | |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.150000 | 61.50 | 10.1 | 66 | 4.5 | QP | N | GND |
| 0.186000 | 56.10 | 10.1 | 64 | 8.1 | QP | N | GND |
| 0.388500 | 39.30 | 10.1 | 58 | 18.8 | QP | N | GND |
| 20.260000 | 38.60 | 10.8 | 60 | 21.4 | QP | N | GND |
| 21.664000 | 38.80 | 10.8 | 60 | 21.2 | QP | N | GND |
| 23.131000 | 39.30 | 10.8 | 60 | 20.7 | QP | N | GND |

MEASUREMENT RESULT: "AT1203623101 fin2"

| 3/6/2012 9:14 | AM | | | | | | |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.150000 | 44.00 | 10.1 | 56 | 12.0 | AV | N | GND |
| 0.190500 | 37.10 | 10.1 | 54 | 16.9 | AV | N | GND |
| 0.415500 | 30.00 | 10.1 | 48 | 17.5 | AV | N | GND |
| 21.664000 | 34.10 | 10.8 | 50 | 15.9 | AV | N | GND |
| 22.073500 | 28.20 | 10.8 | 50 | 21.8 | AV | N | GND |
| 23.131000 | 34.70 | 10.8 | 50 | 15.3 | AV | N | GND |

5. FCC Part 15.247 Requirements for DSSS & OFDM Modulation

5.1 Test Setup



5.2 6dB Bandwidth

a. Limt

For the direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

b. Test Procedure

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 100kHz, VBW = RBW, Span = 50MHz, Sweep = auto.
- 4. Mark the peak frequency and -6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

c. Test Setup

See 5.1

d. Test Results

Pass

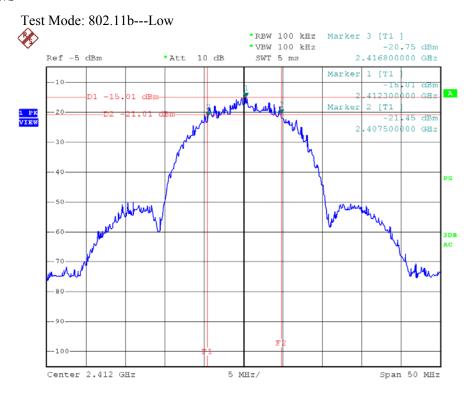
e. Test Data

Test mode: IEEE 802.11b

| Channel | Frequency (MHz) | Bandwidth (MHz) | Limit (kHz) | Results |
|-------------------------|-----------------|--------------------|----------------|---------|
| Low | 2412 | 9.3 | | Pass |
| Mid | 2437 | 9.8 | >500 | Pass |
| High | 2462 | 9.9 | | Pass |
| Test mode: IEEE 802.11g | | | | |
| Channel | Frequency | Bandwidth | Limit | Results |
| Chamiei | (MHz) | (MHz) | (kHz) | Resuits |
| Low | 2412 | 16.5 | | Pass |
| Mid | 2437 | 16.4 | >500 | Pass |
| High | 2462 | 16.4 | | Pass |

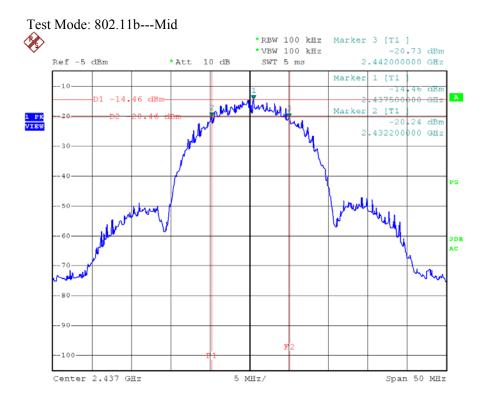
Test Plots

See the following page.



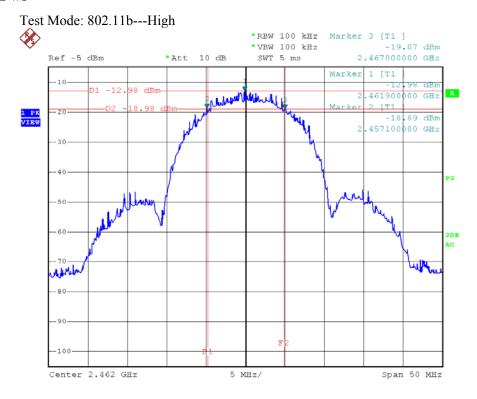
6dB-L-b

Date: 14.MAR.2012 20:48:05



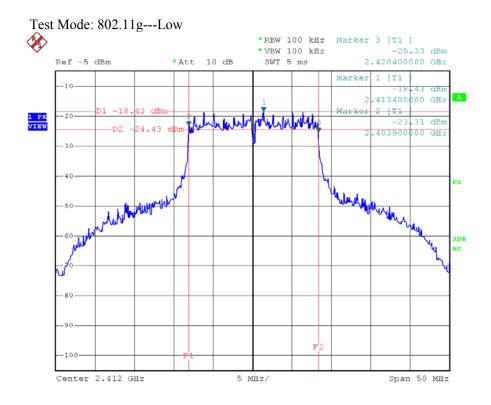
бав-м-ь

Date: 14.MAR.2012 20:46:39



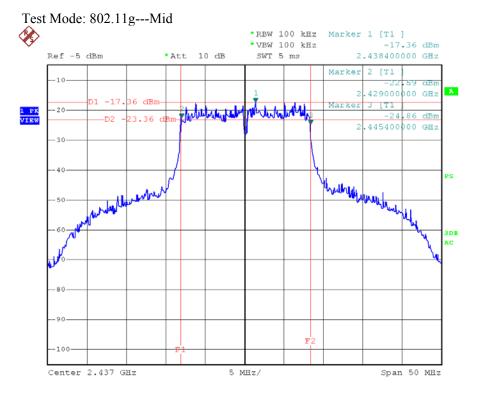
бdВ-Н-b

Date: 14.MAR.2012 20:44:52



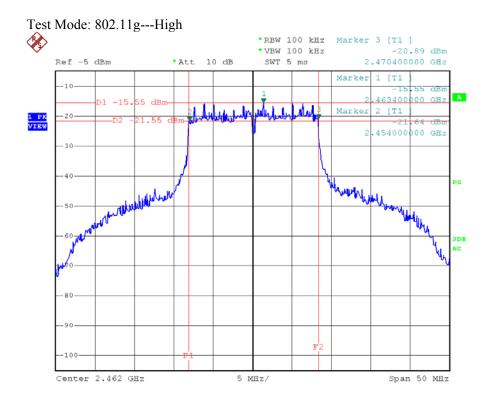
6dB-L-g

Date: 14.MAR.2012 20:39:11



бав-м-д

Date: 14.MAR.2012 20:41:01



бdВ-Н-д

Date: 14.MAR.2012 20:42:31

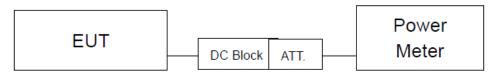
5.3 Maximum Peak output power test

a. Limt

The maximum peak output power of the intentional radiator shall not exceed the following:

- 1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt (30dBm).
- 2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antenna of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

b. Configuration of Measurement



c. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2007 KDB558074 for compliance to FCC 47CFR 15.247 requirements. For FCC §15.247(b) the power output was measured on the EUT using a 50 ohm SMA cable connected to peak power meter via power sensor. Peak output power was read directly from power meter. The test was performed at 3 channels (lowest, middle and highest).

d. Test Results

Pass

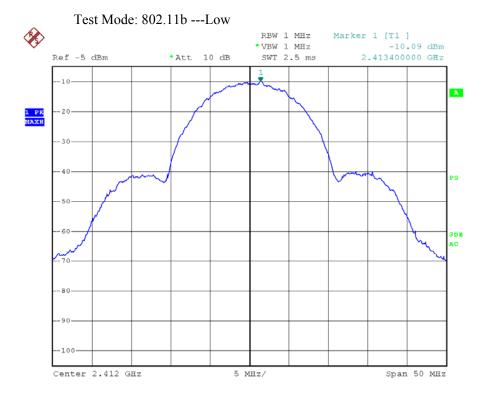
e. Test Data

Test mode: IEEE 802.11b

| Champal | Frequency | Maximum transmit power | | Limit | | Dogult |
|---------|-----------|------------------------|----------|-------|---------|--------|
| Channel | (MHz) | (dBm) | (watts) | (dBm) | (watts) | Result |
| Low | 2412 | -10.09 | 0.000098 | | | Pass |
| Mid | 2437 | -8.34 | 0.000147 | 30 | 1 | Pass |
| High | 2462 | -6.46 | 0.000256 | | | Pass |

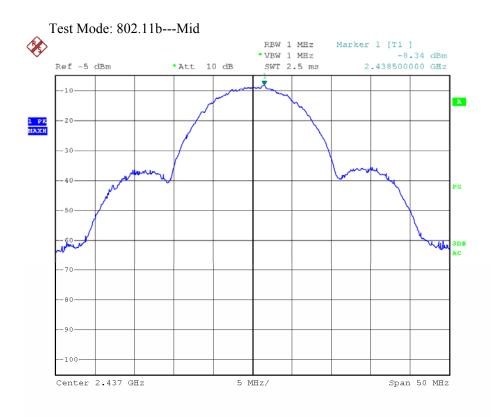
Test mode: IEEE 802.11g

| Channel | Frequency | Maximum tra | ansmit power | Limit | | Result |
|----------|-----------|-------------|--------------|-------|---------|--------|
| Chainlei | (MHz) | (dBm) | (watts) | (dBm) | (watts) | Kesuit |
| Low | 2412 | -13.58 | 0.0000439 | | | Pass |
| Mid | 2437 | -11.99 | 0.0000632 | 30 | 1 | Pass |
| High | 2462 | -10.84 | 0.0000824 | | | Pass |



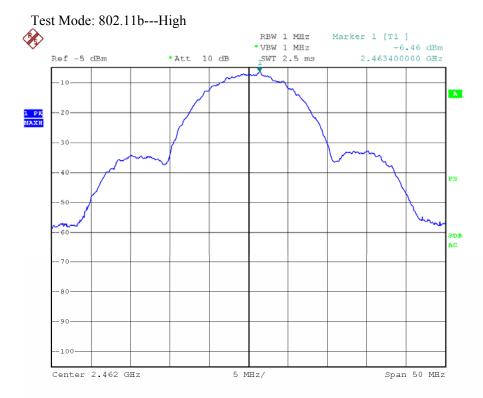
Power-L-b

Date: 14.MAR.2012 20:29:59



Power-M-b

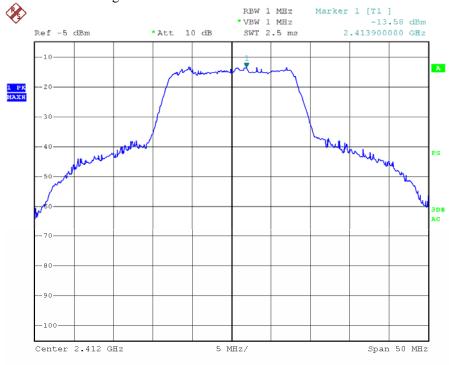
Date: 14.MAR.2012 20:31:23



Power-H-b

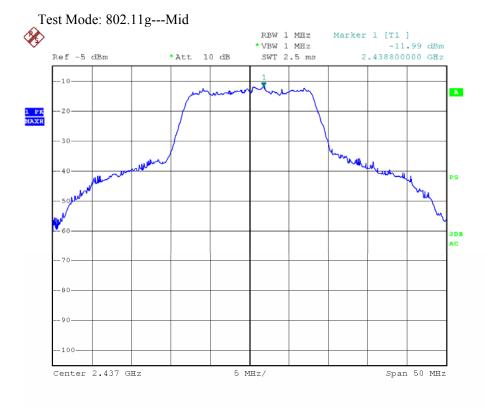
Date: 14.MAR.2012 20:32:42

Test Mode: 802.11g ---Low



Power-L-g

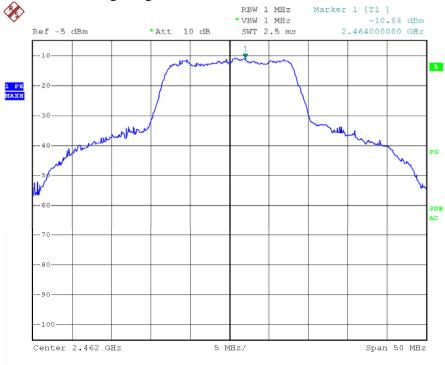
Date: 14.MAR.2012 20:35:44



Power-M-g

Date: 14.MAR.2012 20:34:50

Test Mode: 802.11g---High



Power-H-g

Date: 14.MAR.2012 20:33:52

5.4 Band Edges Measurement

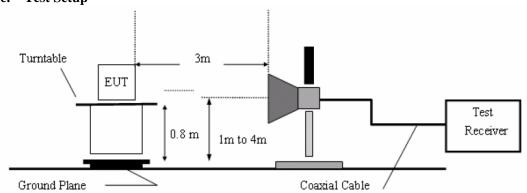
a. Limt

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a).

b. Test Procedure

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Peak detector: RBW=100KHz, VBW=100KHz, SWT=AUTO Average detector: RBW=1MHz, VBW=10Hz, SWT=AUTO The EUT is tested in 9*6*6 Chamber.
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

c. Test Setup



d. Test Results

Pass

e. Test Data

Test mode: IEEE 802.11b

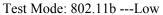
| Channel | Restrict Freq. Band | Detector Mode | Maximum level | Limit | Margin |
|---------|---------------------|---------------|---------------|---------------|--------|
| | (MHz) | | $(dB\mu V/m)$ | $(dB\mu V/m)$ | (dB) |
| Low | 2310~2390 | PK | 33.05 | 74 | -40.95 |
| | | AV | 25.03 | 54 | -28.97 |
| High | 2483.5~2500 | PK | 38.51 | 74 | -35.49 |
| | | AV | 34.05 | 54 | -19.95 |

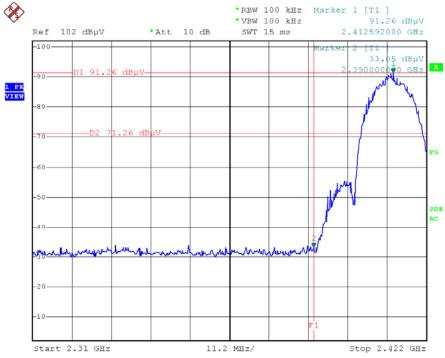
Test mode: IEEE 802.11g

| Channel | Restrict Freq. Band | Detector Mode | Maximum level | Limit | Margin |
|---------|---------------------|---------------|---------------|----------|--------|
| | (MHz) | | $(dB\mu V/m)$ | (dBµV/m) | (dB) |
| Low | 2310~2390 | PK | 44.50 | 74 | -29.5 |
| | | AV | 35.33 | 54 | -18.67 |
| High | 2483.5~2500 | PK | 52.45 | 74 | -21.55 |
| | | AV | 45.24 | 54 | -8.76 |

f. Test Plots

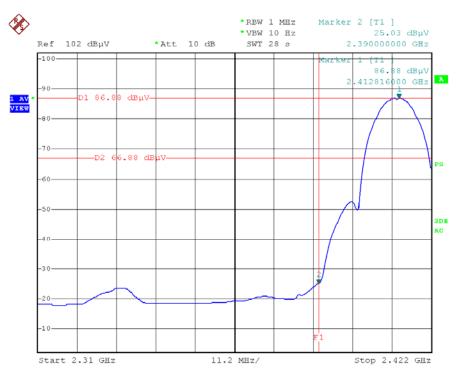
See the following page.





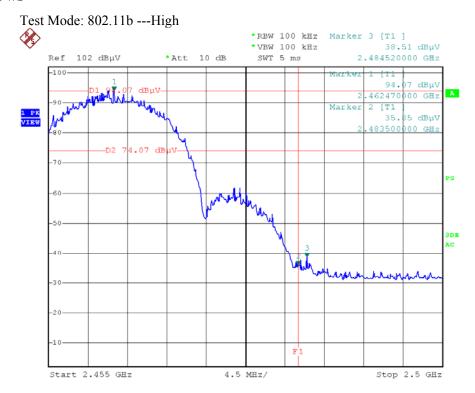
BE-L-b

Date: 14.MAR.2012 21:05:29



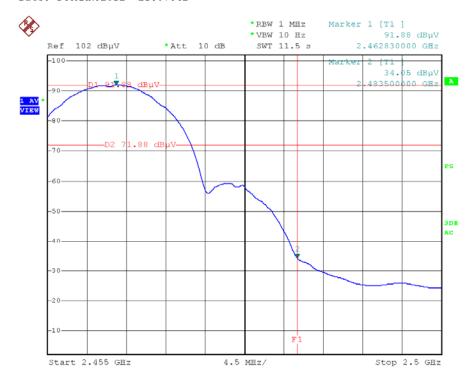
BE-L-b-AV

Date: 14.MAR.2012 21:14:57



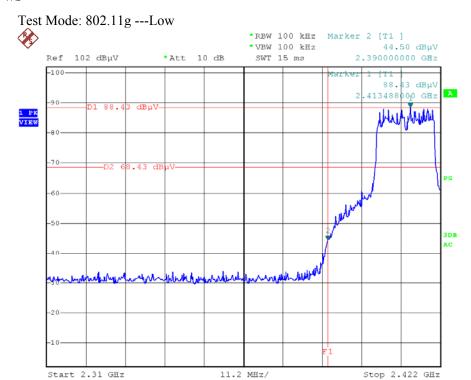
BE-H-b

Date: 14.MAR.2012 21:07:42

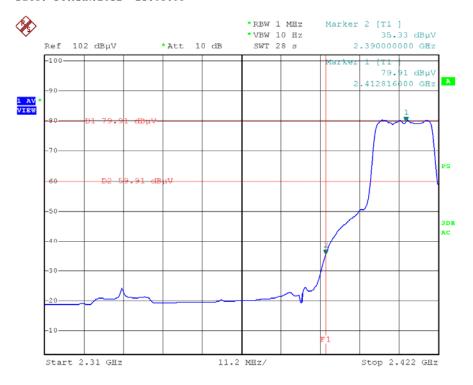


BE-H-b-AV

Date: 14.MAR.2012 21:12:38

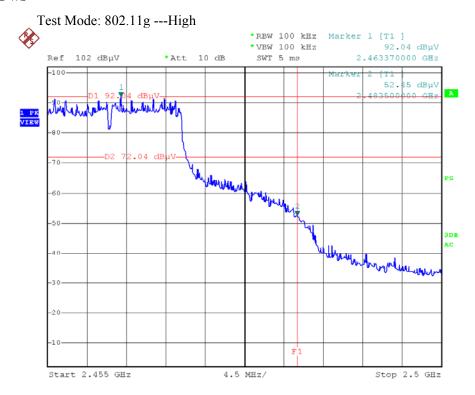




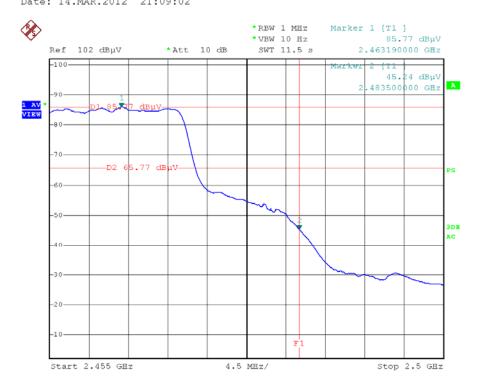


BE-L-g-AV

Date: 14.MAR.2012 21:17:50







BE-H-g-AV

Date: 14.MAR.2012 21:10:47

5.5 Peak Power Spectral Density

a. Limt

- 1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
- 2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

b. Test Procedure

- 1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5MHz, Sweep=500s
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

c. Test Setup

See 5.1

d. Test Results

Pass

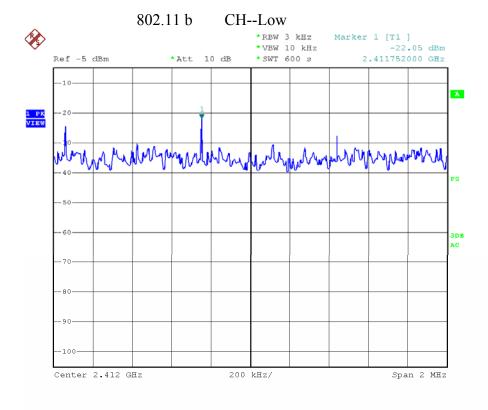
e. Test Data

Test mode: IEEE 802.11b

| Chamal | Frequency | PPSD | Σ PPSD | Limit | Dagult |
|-----------------|-----------|------------|---------------|-------|--------|
| Channel | (MHz) | (dBm/3KHz) | (dBm/3KHz) | (dBm) | Result |
| Low | 2412 | -22.05 | - | | Pass |
| Mid | 2437 | -18.31 | - | 8.00 | Pass |
| High | 2462 | -20.04 | - | | Pass |
| Test mode: IEEE | 802.11g | | | | |
| Channel | Frequency | PPSD | Σ PPSD | Limit | Result |
| Chamilei | (MHz) | (dBm) | (dBm) | (dBm) | Result |
| Low | 2412 | -35.45 | - | | Pass |
| Mid | 2437 | -33.11 | - | 8.00 | Pass |
| High | 2462 | -31.26 | - | | Pass |

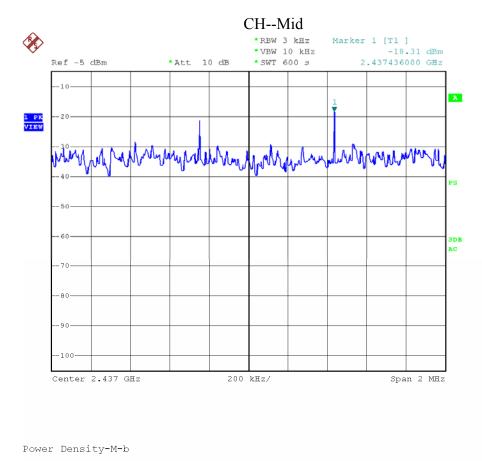
f. Test Plot

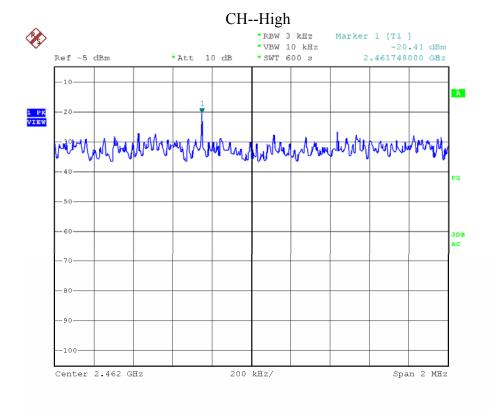
See the following pages



Power Density-L-b

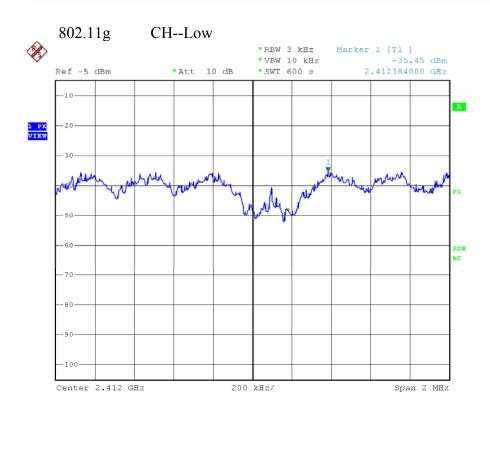
Date: 14.MAR.2012 20:52:10





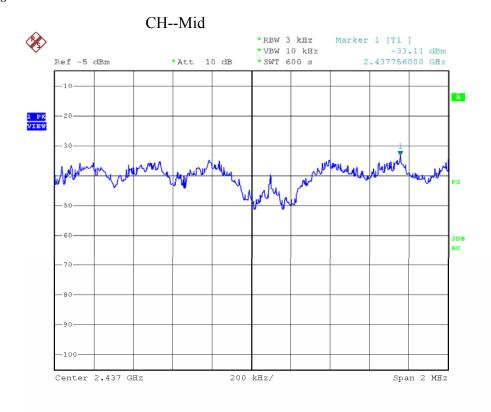
Power Density-H-b

Date: 14.MAR.2012 20:55:18



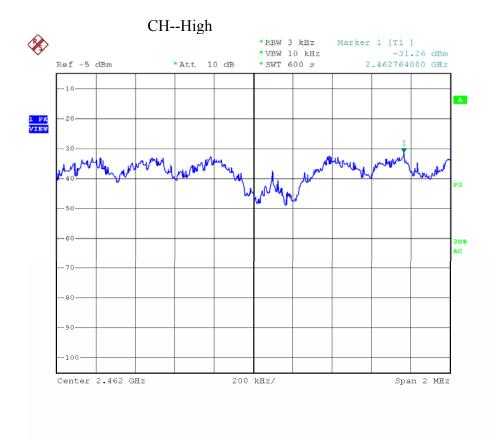
Power Density-L-g

Date: 14.MAR.2012 20:59:15



Power Density-M-g

Date: 14.MAR.2012 20:57:44



Power Density-H-g

Date: 14.MAR.2012 20:56:33

5.6 Radiated Emissions

5.6.1. Requirements (15.209 & 15.205):

5.6.1.1. Test Limits (< 30 MHZ)

| Frequency | Field Strength | Measurement Distance |
|-------------|--------------------|----------------------|
| (MHz) | (microvolts/meter) | (meter) |
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |

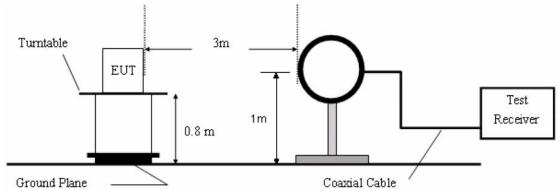
5.6.1.2. Test Limits (≥ 30 MHZ)

| FIELD STRENGTH | FIELD STRENGTH | S15.209 | |
|-----------------|----------------|---------------|---------------|
| of Fundamental: | of Harmonics | 30 - 88 MHz | 40 dBuV/m @3M |
| 902-928 MHZ | | 88 - 216 MHz | 43.5 |
| 2.4-2.4835 GHz | | 216 - 960 MHz | 46 |
| 94 dBμV/m @3m | 54 dBμV/m @3m | ABOVE 960 MHz | 54dBuV/m |

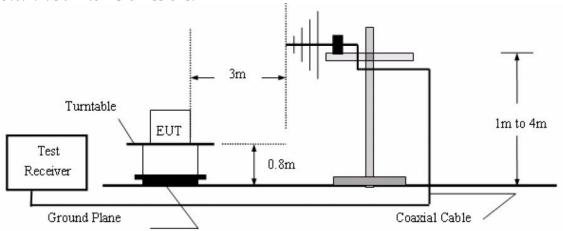
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.6.2. Test Configuration:

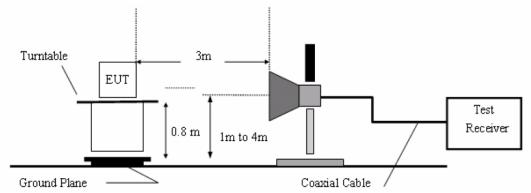
5.6.2.1. 9k to 30MHz emissions:



5.6.2.2. 30M to 1G emissions:



5.6.2.3. 1G to 40G emissions:



5.6.3. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Measurements are made on 9KHz to 30MHz and 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz. The EUT is tested in 9*6*6 Chamber.

The test results are listed in Section 5.6.4.

5.6.4. Test Results

Below 30MHz

There is no emissions were detected below 30MHz

From 30MHz to 1 GHz

Operation Mode: Normal link
Temperature: 25°C
Tested by: Andy Chen
Humidity: 70 % RH
Polarity: Ver. / Hor.

| Trainiaity. 70 | | | | | | | , |
|----------------|----------|----------|----------|--------|-----------|----------|--------|
| Freq. | Ant.Pol. | Detector | Detector | Factor | Actual FS | Limit 3m | Safe |
| (MHz) | H/V | Mode | Mode | (dB) | (dBuV/m) | (dBuV/m) | Margin |
| | | (PK/QP) | (PK/QP) | | | | (dB) |
| 60.0690 | V | Peak | 61.00 | -25.23 | 35.77 | 40.00 | -4.23 |
| 125.0066 | V | Peak | 64.63 | -25.20 | 39.43 | 43.50 | -4.07 |
| 159.7844 | V | Peak | 64.33 | -26.49 | 37.84 | 43.50 | -5.66 |
| 250.3011 | V | Peak | 63.83 | -22.54 | 41.29 | 46.00 | -4.71 |
| 480.5276 | V | Peak | 58.56 | -19.63 | 38.89 | 46.00 | -7.11 |
| 801.7862 | V | Peak | 53.24 | -12.59 | 40.65 | 46.00 | -5.35 |
| | | | | | | | |
| 125.0066 | Н | Peak | 64.81 | -30.00 | 34.81 | 43.50 | -8.69 |
| 159.7844 | Н | Peak | 71.35 | -31.49 | 39.86 | 43.50 | -3.64 |
| 250.3011 | Н | Peak | 69.22 | -26.27 | 42.95 | 46.00 | -3.05 |
| 375.9384 | Н | Peak | 60.96 | -21.90 | 39.06 | 46.00 | -6.94 |
| 480.5276 | Н | Peak | 62.34 | -19.90 | 42.44 | 46.00 | -3.56 |
| 801.7862 | Н | Peak | 55.41 | -13.58 | 41.83 | 46.00 | -4.17 |

Notes:

- 1. Measuring frequencies from 30 MHz to the 1GHz and the IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/Quasi-peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Test Date: Mar. 14, 2012

Above 1 GHz

Operation Mode: TX / IEEE 802.11b / CH Low

Temperature: 25°C Tested by: Andy Chen Humidity: 70 % RH Polarity: Ver. / Hor.

| | Humany. 70 % KH | | | | | | | | | | | |
|-------|-----------------|-----------|--------------|--------------|-----------|-------------|-----------------|---------------|-----------------------|------------|--------|--------|
| Item | Erog | Ant.Pol | Read | Antenna | Cable | Preamp | Le | vel | Dools I imi | AVI imit | Morgin | |
| | Freq. (MHz) | H/V | Level (dBuV) | Factor (dB) | Loss (dB) | Factor (dB) | Peak (dBuV/) | AV (dBuV/) | Peak Limit (dBuV/) | (dBuV/) | (dB) | Remark |
| 1. | 4824 | Н | 46.20 | 35.76 | 4.58 | 34.94 | 51.60 | | 74.00 | 54.00 | -22.40 | Peak |
| 2. | 4824 | Н | 38.55 | 35.76 | 4.58 | 34.94 | | 43.91 | 74.00 | 54.00 | -10.09 | AVG |
| 3. | 7240 | Н | 43.48 | 37.85 | 5.63 | 35.25 | 51.71 | | 74.00 | | -22.29 | Peak |
| 4. | 9648 | Н | 44.48 | 39.39 | 6.34 | 35.70 | 54.51 | | 74.00 | | -19.49 | Peak |
| 5. | 12060 | Н | | | | | | | | | | |
| 6. | 14472 | Н | | | | | | | | | | |
| 7. | 16884 | Н | | | | | | | | | | |
| 8. | 19296 | Н | | | | | | | | | | |
| 9. | 21708 | Н | | | | | | | | | | |
| 10. | 24120 | Н | | | | | | | | | | |
| Note: | An item 3 | and 4 are | on un-rest | ricted band, | so the li | mit is -200 | dB for the fi | ield strength | of the fund | amental em | ission | |
| 1. | 4824 | V | 46.38 | 35.13 | 4.58 | 34.94 | | 51.15 | 74.00 | 54.00 | -2.85 | AVG |

| 1. | 4824 | V | 46.38 | 35.13 | 4.58 | 34.94 | | 51.15 | 74.00 | 54.00 | -2.85 | AVG |
|-----|-------|---|-------|-------|------|-------|-------|-------|-------|-------|--------|------|
| 2. | 4824 | V | 51.24 | 35.13 | 4.58 | 34.94 | 56.01 | | 74.00 | 54.00 | -17.99 | Peak |
| 3. | 7240 | V | 41.45 | 36.90 | 5.63 | 35.25 | 48.73 | | 74.00 | | -25.27 | Peak |
| 4. | 9648 | V | 43.14 | 38.57 | 6.34 | 35.70 | 52.35 | | 74.00 | | -21.65 | Peak |
| 5. | 12060 | V | | | | | | | | | | |
| 6. | 14472 | V | | | | | | | | | | |
| 7. | 16884 | V | | | | | | | | | | |
| 8. | 19296 | V | | | | | | | | | | |
| 9. | 21708 | V | | | | | | | | | | |
| 10. | 24120 | V | | | | | | | | | | |

Note: An item 3 and 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emission

9.

10.

21933

24370

V

V

Operation Mode: TX / IEEE 802.11b / CH Mid

Test Date: Mar. 14, 2012 Temperature: 25°C Tested by: Andy Chen Humidity: 70 % RH Polarity: Ver. / Hor.

| | Humidity: 70 % RH Polarity: Ver. / Hor. | | | | | | | | | | | |
|-------|---|----------------|-------------------------|---------------------------|-----------------------|--------------------------|-----------------------|---------------|-----------------------|---------------------|----------------|--------|
| Item | Freq. (MHz) | Ant.Pol H/V | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Le Peak (dBuV/) | AV (dBuV/) | Peak Limit (dBuV/) | AV Limit (dBuV/) | Margin (dB) | Remark |
| 1. | 4874 | Н | 41.17 | 35.83 | 4.61 | 34.93 | | 46.68 | 74.00 | 54.00 | -7.32 | AVG |
| 2. | 4874 | Н | 45.34 | 35.83 | 4.61 | 34.93 | 50.85 | | 74.00 | 54.00 | -23.15 | Peak |
| 3. | 7311 | Н | 42.14 | 37.86 | 5.64 | 35.26 | 50.38 | | 74.00 | 54.00 | -23.64 | Peak |
| 4. | 9748 | Н | 42.15 | 39.51 | 6.36 | 35.70 | 52.32 | | 74.00 | | -21.68 | Peak |
| 5. | 12185 | Н | | | | | - | | | | | |
| 6. | 14622 | Н | | | | | | | | | | |
| 7. | 17059 | Н | | | | | | | | | | |
| 8. | 19496 | Н | | | | | | | | | | |
| 9. | 21933 | Н | | | | | | | | | | |
| 10. | 24370 | Н | | | | | - | | | | | |
| Note: | An item 4 | are on un | ı-restricted | band, so the | limit is | -20dB for | the field str | rength of the | e fundament | al emission | | |
| 1. | 4874 | V | 45.20 | 35.18 | 4.61 | 34.93 | H | 49.56 | 74.00 | 54.00 | -4.04 | AVG |
| 2. | 4874 | V | 51.26 | 35.18 | 4.61 | 34.93 | 56.12 | | 74.00 | 54.00 | -17.88 | Peak |
| 3. | 7311 | V | 42.27 | 36.92 | 5.64 | 35.26 | 49.57 | | 74.00 | 54.00 | -24.43 | Peak |
| 4. | 9748 | V | 41.28 | 38.71 | 6.36 | 35.70 | 50.65 | | 74.00 | | -23.35 | Peak |
| 5. | 12185 | V | | | | | - | | | | | |
| 6. | 14622 | V | | | | | | | | | | |
| 7. | 17059 | V | | | | | | | | | | |
| 8. | 19496 | V | | | | | | | | | | |

Note: An item 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emission

Operation Mode: TX / IEEE 802.11b / CH High

Test Date: Mar. 14, 2012 Temperature: 25°C Tested by: Andy Chen Humidity: 70 % RH Polarity: Ver. / Hor.

| | Humidity. 70 % KH Polarity. Ver. 7 Hor. | | | | | | | | | | | |
|-------|---|----------------|-------------------------|---------------------------|-----------------------|--------------------------|---------------|----------------------|-----------------------|---------------------|----------------|--------|
| Item | Freq. (MHz) | Ant.Pol H/V | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Peak (dBuV/) | vel AV (dBuV/) | Peak Limit (dBuV/) | AV Limit (dBuV/) | Margin (dB) | Remark |
| 1. | 4924 | Н | 39.25 | 35.90 | 4.68 | 34.92 | | 44.95 | 74.00 | 54.00 | -9.05 | AVG |
| 2. | 4924 | Н | 46.21 | 35.90 | 4.68 | 34.92 | 51.87 | | 74.00 | 54.00 | -22.13 | Peak |
| 3. | 7386 | Н | 41.12 | 37.88 | 5.65 | 35.28 | 49.37 | | 74.00 | 54.00 | -24.63 | Peak |
| 4. | 9848 | Н | 42.20 | 39.61 | 6.38 | 35.70 | 52.49 | | 74.00 | | -21.87 | Peak |
| 5. | 12310 | Н | | | | | | | | | | |
| 6. | 14772 | Н | | | | | | | | | | |
| 7. | 17234 | Н | | | | | | | | | | |
| 8. | 19696 | Н | | | | | | | | | | |
| 9. | 22158 | Н | | | | | | | | | | |
| 10. | 24620 | Н | | | | | | | | | | |
| Note: | An item 4 | are on un | -restricted | band, so the | e limit is | -20dB for | the field str | rength of the | e fundament | al emission | | |
| 1. | 4924 | V | 48.12 | 35.23 | 4.68 | 34.92 | 53.11 | | 74.00 | 54.00 | -20.89 | Peak |
| 2. | 4924 | V | 44.44 | 35.23 | 4.68 | 34.92 | | 49.43 | 74.00 | 54.00 | -4.77 | AVG |
| 3. | 7386 | V | 42.36 | 36.96 | 5.65 | 35.28 | 49.69 | | 74.00 | 54.00 | -24.31 | Peak |
| 4. | 9848 | V | 42.24 | 38.81 | 6.38 | 35.70 | 51.73 | | 74.00 | | -22.27 | Peak |
| 5. | 12310 | V | | | | | | | | | | |
| 6. | 14772 | V | | | | | | | | | | |
| 7. | 17234 | V | | | | | | | | | | |
| 8. | 19696 | V | | | | | | | | | | |
| 9. | 22158 | V | | | | | | | | | | |
| 10. | 24620 | V | | | | | | | | | | |
| | | | | | | | | | | | | |

Note: An item 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emission

24120 V

Operation Mode: TX / IEEE 802.11g / CH Low

Test Date: Feb. 27 2012 Temperature: 25°C Tested by: Andy Chen Humidity: 70 % RH Polarity: Ver. / Hor.

| | Humany | . /0 /0 | KH | | | | | | | 1 Olaii | ity. ver. | / 1101. |
|-------|-------------|----------------|-------------------------|---------------------------|-----------------------|--------------------------|---------------|----------------------|-----------------------|---------------------|----------------|---------|
| Item | Freq. (MHz) | Ant.Pol H/V | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Peak (dBuV/) | vel AV (dBuV/) | Peak Limit (dBuV/) | AV Limit (dBuV/) | Margin (dB) | Remark |
| 1. | 4824 | Н | 43.16 | 35.76 | 4.58 | 34.94 | 48.58 | | 74.00 | | -25.42 | Peak |
| 2. | 4824 | Н | 31.06 | 35.76 | 4.58 | 34.94 | | 36.46 | | 54.00 | -17.64 | AVG |
| 3. | 7240 | Н | 43.13 | 37.85 | 5.63 | 35.25 | 51.36 | | 74.00 | | -22.64 | Peak |
| 4. | 9648 | Н | 41.35 | 39.39 | 6.34 | 35.70 | 51.38 | | 74.00 | | -22.62 | Peak |
| 5. | 12060 | Н | | | | | | | | | | |
| 6. | 14472 | Н | | | | | | | | | | |
| 7. | 16884 | Н | | | | | | | | | | |
| 8. | 19296 | Н | | | | | | | | | | |
| 9. | 21708 | Н | | | | | | | | | | |
| 10. | 24120 | Н | | | | | | | | | | |
| Note: | An item 3 | and 4 are | on un-rest | ricted band, | so the li | mit is -200 | dB for the fi | ield strength | of the fund | amental em | ission | |
| 1. | 4824 | V | 32.11 | 35.13 | 4.58 | 34.94 | | 36.88 | 74.00 | 54.00 | -17.12 | AVG |
| 2. | 4824 | V | 44.02 | 35.13 | 4.58 | 34.94 | 48.79 | | 74.00 | 54.00 | -25.21 | Peak |
| 3. | 7240 | V | 42.60 | 36.90 | 5.63 | 35.25 | 49.88 | | 74.00 | | -24.12 | Peak |
| 4. | 9648 | V | 42.22 | 38.59 | 6.34 | 35.70 | 51.45 | | 74.00 | | -22.55 | Peak |
| 5. | 12060 | V | | | | | | | | | | |
| 6. | 14472 | V | | | | | | | | | | |
| 7. | 16884 | V | | | | | | | | | | |
| 8. | 19296 | V | | | | | | | | | | |
| 9. | 21708 | V | | | | | | | | | | |

Note: An item 3 and 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emission

Operation Mode: TX / IEEE 802.11g / CH Mid

Test Date: Mar. 14, 2012 Temperature: 25°C Tested by: Andy Chen Humidity: 70 % RH Polarity: Ver. / Hor.

| | Humidity: 70 % RH Polarity: Ver. / Hor. | | | | | | | | | | | |
|-------|---|----------------|-------------------------|---------------------------|-----------------------|--------------------------|---------------|---------------|-----------------------|---------------------|----------------|--------|
| Item | Freq. (MHz) | Ant.Pol H/V | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Peak (dBuV/) | AV (dBuV/) | Peak Limit (dBuV/) | AV Limit (dBuV/) | Margin (dB) | Remark |
| 1. | 4874 | Н | 41.17 | 35.83 | 4.61 | 34.93 | 46.68 | | 74.00 | 54.00 | -27.32 | Peak |
| 2. | 7311 | Н | 42.00 | 37.86 | 5.64 | 35.26 | 50.24 | | 74.00 | 54.00 | -23.76 | Peak |
| 3. | 9748 | Н | 41.12 | 39.51 | 6.36 | 35.70 | 51.29 | | 74.00 | | -22.17 | Peak |
| 4. | 12185 | Н | | | | | | | | | | |
| 5. | 14622 | Н | | | | | | | | | | |
| 6. | 17059 | Н | | | | | | | | | | |
| 7. | 19496 | Н | | | | | | | | | | |
| 8. | 21933 | Н | | | | | | | | | | |
| 9. | 24370 | Н | | | | | | | | | | |
| Note: | An item 3 | are on un | -restricted | band, so the | e limit is | -20dB for | the field str | rength of the | e fundament | al emission | | |
| 1. | 4874 | V | 42.24 | 35.18 | 4.61 | 34.93 | 46.78 | | 74.00 | 54.00 | -27.22 | Peak |
| 2. | 7311 | V | 41.14 | 36.92 | 5.64 | 35.26 | 50.61 | | 74.00 | 54.00 | -23.39 | Peak |
| 3. | 9748 | V | 41.64 | 38.71 | 6.36 | 35.70 | 51.29 | | 74.00 | | -22.17 | Peak |
| 4. | 12185 | V | | | | | | | | | | |
| 5. | 14622 | V | | | | | | | | | | |
| 6. | 17059 | V | | | | | | | | | | |
| 7. | 19496 | V | | | | | | | | | | |
| 8. | 21933 | V | | | | | | | | | | |
| 9. | 24370 | V | | | | | | | | | | |

Operation Mode: TX / IEEE 802.11g / CH High

Test Date: Mar. 14, 2012 Temperature: 25°C Tested by: Andy Chen Humidity: 70 % RH Polarity: Ver. / Hor.

| Item | Erog | Ant Dol | Read | Antenna | Cable | Preamp | Le | vel | Peak LimitAV L | | Margin | |
|-------|-------------|----------------|--------------|--------------|------------|-------------|-----------------|---------------|----------------|-------------|--------|--------|
| | Freq. (MHz) | Ant.Pol H/V | Level (dBuV) | Factor (dB) | Loss (dB) | Factor (dB) | Peak (dBuV/) | AV (dBuV/) | (dBuV/) | (dBuV/) | (dB) | Remark |
| 1. | 4924 | Н | 41.08 | 35.90 | 4.68 | 34.92 | 46.74 | | 74.00 | 54.00 | -27.06 | Peak |
| 2. | 7386 | Н | 41.35 | 37.88 | 5.65 | 35.28 | 49.60 | | 74.00 | 54.00 | -24.40 | Peak |
| 3. | 9848 | Н | 42.26 | 39.61 | 6.38 | 35.70 | 52.55 | | 74.00 | | -21.45 | Peak |
| 4. | 12310 | Н | | | | | | | | | | |
| 5. | 14772 | Н | | | | | | | | | | |
| 6. | 17234 | Н | | | | | | | | | | |
| 7. | 19696 | Н | | | | | | | | | | |
| 8. | 22158 | Н | | | | | | | | | | |
| 9. | 24620 | Н | | | | | | | | | | |
| Note: | An item 4 | are on ur | n-restricted | band, so the | e limit is | -20dB for | the field str | rength of the | e fundament | al emission | | |
| 1. | 4924 | V | 43.13 | 35.23 | 4.68 | 34.92 | 48.12 | | 74.00 | 54.00 | -25.88 | Peak |
| 2. | 7386 | V | 41.13 | 36.96 | 5.65 | 35.28 | 48.46 | | 74.00 | 54.00 | -25.54 | Peak |
| 3. | 9848 | V | 42.05 | 38.81 | 6.38 | 35.70 | 51.54 | | 74.00 | | -22.46 | Peak |
| 4. | 12310 | V | | | | | | | | | | |
| 5. | 14772 | V | | | | | | | | | | |
| 6 | 17224 | 17 | | | | | | | | | | |

Note: An item 4 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emission

Notes:

8 9.

19696 22158

24620

V

V

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shownin Actual FS column.
- 4. Spectrum setting:
- a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
- b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 5. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.