



FCC TEST REPORT (WLAN)

REPORT NO.: RF120522C28-2
MODEL NO.: PL01210
FCC ID: NM8PL01210
RECEIVED: May 22, 2012
TESTED: Jun. 08 ~ Jun. 25, 2012
ISSUED: Jul. 10, 2012

APPLICANT: HTC Corporation

ADDRESS: No. 23, Xinghua Rd., Taoyuan City, Taiwan

ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,
New Taipei City, Taiwan (R.O.C.)

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei
Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---------------|-------------------|---------------|
| RF120522C28-2 | Original release | Jul. 10, 2012 |



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1. CERTIFICATION

PRODUCT: Smartphone
MODEL NO.: PL01210
BRAND: HTC
APPLICANT: HTC Corporation
TESTED: Jun. 08 ~ Jun. 25, 2012
TEST SAMPLE: PRODUCTION UNIT
STANDARDS: **FCC Part 15, Subpart C (Section 15.247)**
ANSI C63.10-2009

The above equipment (model: PL01210) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Ivonne Wu , **DATE** : Jul. 10, 2012
Ivonne Wu / Senior Specialist

APPROVED BY : Gary Chang , **DATE** : Jul. 10, 2012
Gary Chang / Technical Manager



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247) | | | |
|---|-----------------------------|--------|---|
| STANDARD SECTION | TEST TYPE | RESULT | REMARK |
| 15.207 | AC Power Conducted Emission | PASS | Meet the requirement of limit. Minimum passing margin is -7.00dB at 2.62891MHz. |
| 15.247(d) 15.209 | Radiated Emissions | PASS | Meet the requirement of limit. Minimum passing margin is -3.85dB at 2488.00MHz. |
| 15.247(d) | Band Edge Measurement | PASS | Meet the requirement of limit. |
| 15.247(a)(2) | 6dB bandwidth | PASS | Meet the requirement of limit. |
| 15.247(b) | Conducted power | PASS | Meet the requirement of limit. |
| 15.247(e) | Power Spectral Density | PASS | Meet the requirement of limit. |
| 15.203 | Antenna Requirement | PASS | No antenna connector is used. |

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT | FREQUENCY | UNCERTAINTY |
|---------------------|-----------------|-------------|
| Conducted emissions | 150kHz~30MHz | 2.44 dB |
| Radiated emissions | 30MHz ~ 200MHz | 2.93 dB |
| | 200MHz ~1000MHz | 2.95 dB |
| | 1GHz ~ 18GHz | 2.26 dB |
| | 18GHz ~ 40GHz | 1.94 dB |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | |
|------------------------------|---|
| EUT | Smartphone |
| MODEL NO. | PL01210 |
| POWER SUPPLY | 5.0Vdc (adapter) 3.7Vdc (Li-ion battery) |
| MODULATION TYPE | CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM |
| MODULATION TECHNOLOGY | DSSS, OFDM |
| TRANSFER RATE | 802.11b:11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 72.2Mbps |
| OPERATING FREQUENCY | 2412 ~ 2462MHz |
| NUMBER OF CHANNEL | 11 for 802.11b, 802.11g, 802.11n (20MHz) |
| OUTPUT POWER | 0.251W |
| ANTENNA TYPE | PIFA antenna with -0.5dBi gain |
| ANTENNA CONNECTOR | N/A |
| DATA CABLE | Refer to Note as below |
| I/O PORTS | Refer to user's manual |
| ACCESSORY DEVICES | Refer to Note as below |

NOTE:

1. The EUT provides one completed transmitter and one receiver.

| MODULATION MODE | TX FUNCTION |
|------------------------|--------------------|
| 802.11b | 1TX |
| 802.11g | 1TX |
| 802.11n (20MHz) | 1TX |

2. The EUT's accessories list refers to EUT photo.
3. The above EUT information is declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11b, 802.11g and 802.11n (20MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 1 | 2412MHz | 7 | 2442MHz |
| 2 | 2417MHz | 8 | 2447MHz |
| 3 | 2422MHz | 9 | 2452MHz |
| 4 | 2427MHz | 10 | 2457MHz |
| 5 | 2432MHz | 11 | 2462MHz |
| 6 | 2437MHz | | |



3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

| EUT CONFIGURE MODE | APPLICABLE TO | | | | DESCRIPTION |
|--------------------|---------------|-------|-----|------|-------------|
| | RE≥1G | RE<1G | PLC | APCM | |
| - | √ | √ | √ | √ | - |

Where **RE≥1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

NOTE: 1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.
 2. "-" means no effect.

RADIATED EMISSION TEST (ABOVE 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------|-----------------|-------------------|----------------|-----------------------|-----------------|------------------|
| - | 802.11b | 1 to 11 | 1, 6, 11 | DSSS | DBPSK | 1.0 |
| - | 802.11g | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 6.0 |
| - | 802.11n (20MHz) | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 7.2 |

RADIATED EMISSION TEST (BELOW 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------|---------|-------------------|----------------|-----------------------|-----------------|------------------|
| - | 802.11g | 1 to 11 | 11 | OFDM | BPSK | 6.0 |



POWER LINE CONDUCTED EMISSION TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------|---------|-------------------|----------------|-----------------------|-----------------|------------------|
| - | 802.11g | 1 to 11 | 11 | OFDM | BPSK | 6.0 |

BANDEDGE MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------|-----------------|-------------------|----------------|-----------------------|-----------------|------------------|
| - | 802.11b | 1 to 11 | 1, 11 | DSSS | DBPSK | 1.0 |
| - | 802.11g | 1 to 11 | 1, 11 | OFDM | BPSK | 6.0 |
| - | 802.11n (20MHz) | 1 to 11 | 1, 11 | OFDM | BPSK | 7.2 |

ANTENNA PORT CONDUCTED MEASUREMENT:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------|-----------------|-------------------|----------------|-----------------------|-----------------|------------------|
| - | 802.11b | 1 to 11 | 1, 6, 11 | DSSS | DBPSK | 1.0 |
| - | 802.11g | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 6.0 |
| - | 802.11n (20MHz) | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 7.2 |

TEST CONDITION:

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER | TESTED BY |
|---------------|--------------------------|--------------|--------------|
| RE≥1G | 25deg. C, 65%RH | 120Vac, 60Hz | Kay Wu |
| RE<1G | 25deg. C, 65%RH | 120Vac, 60Hz | Kay Wu |
| PLC | 25deg. C, 65%RH | 120Vac, 60Hz | David Huang |
| APCM | 25deg. C, 65%RH | 120Vac, 60Hz | Phoenix Chen |

3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

FOR EMISSION TEST

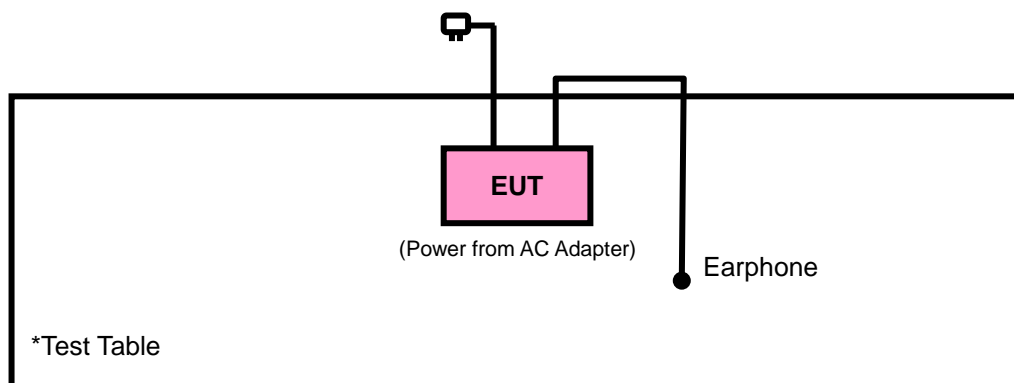
| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|----------|--------|-----------|------------|--------|
| 1 | EARPHONE | Cotron | HS S250 | NA | NA |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1 | NA |

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 1 was provided by client.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST



3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.247)

ANSI C63.10-2009

558074 D01 DTS Meas Guidance v01

All test items have been performed and recorded as per the above standards.

4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

| FREQUENCIES (MHz) | FIELD STRENGTH (microvolts/meter) | MEASUREMENT DISTANCE (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 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 ~ 216 | 150 | 3 |
| 216 ~ 960 | 200 | 3 |
| Above 960 | 500 | 3 |

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



4.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|--|----------------|------------|---------------------|-------------------------|
| Test Receiver Agilent | N9038A | MY51210203 | Dec. 22, 2011 | Dec. 21, 2012 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSU43 | 101261 | Dec. 21, 2011 | Dec. 20, 2012 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-472 | Dec. 20, 2011 | Dec. 19, 2012 |
| HORN Antenna SCHWARZBECK | BBHA 9120 D | 9120D-969 | Dec. 20, 2011 | Dec. 19, 2012 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | 9170-480 | Dec. 20, 2011 | Dec. 19, 2012 |
| Loop Antenna | HFH2-Z2 | 100070 | Jan. 31, 2012 | Jan. 30, 2014 |
| Preamplifier EMCI | EMC 012645 | 980115 | Dec. 30, 2011 | Dec. 29, 2012 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 309219/4 | Oct. 21, 2011 | Oct. 20, 2012 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 250130/4 | Jan. 02, 2012 | Jan. 01, 2013 |
| RF signal cable Worken | RG-213 | NA | Jan. 02, 2012 | Jan. 01, 2013 |
| Software | E3 6.120103 | NA | NA | NA |
| Antenna Tower MF | MFA-440H | NA | NA | NA |
| Turn Table MF | MFT-201SS | NA | NA | NA |
| Antenna Tower & Turn Table Controller MF | MF-7802 | NA | NA | NA |
| JFW 20dB attenuation | 50HF-020-SMA | NA | NA | NA |

- NOTE:** 1. The calibration interval of the above test instruments except loop antenna is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The calibration interval of loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. The test was performed in HwaYa Chamber 9.
 4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 5. The FCC Site Registration No. is 460141.
 6. The IC Site Registration No. is IC 7450F-4.

4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Height of receiving antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

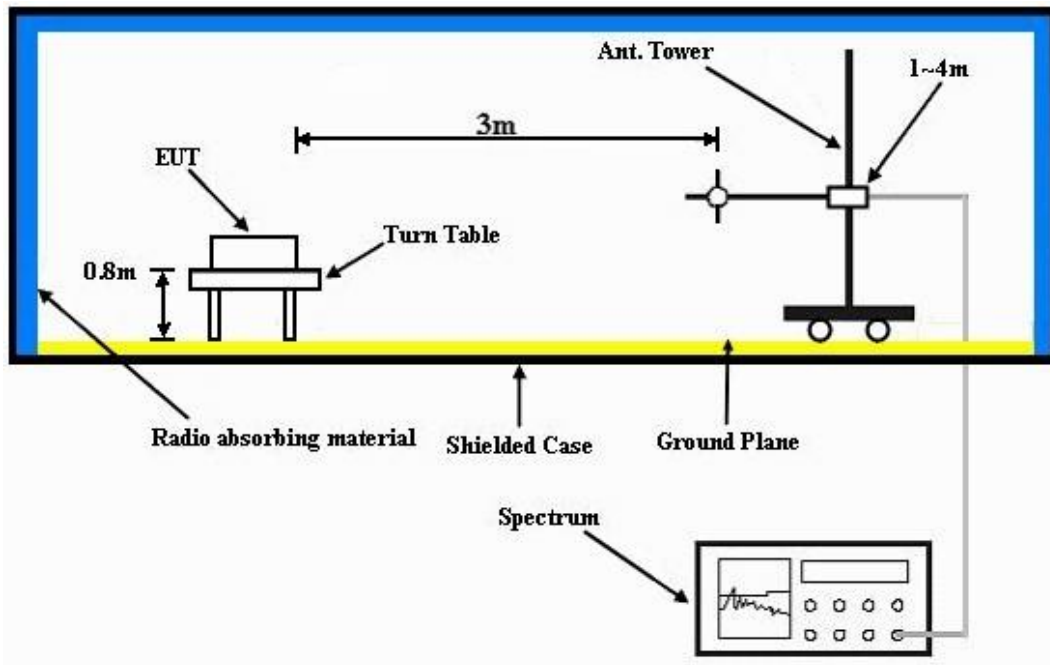
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

4.1.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.



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4.1.7 TEST RESULTS

ABOVE 1GHz WORST-CASE DATA :

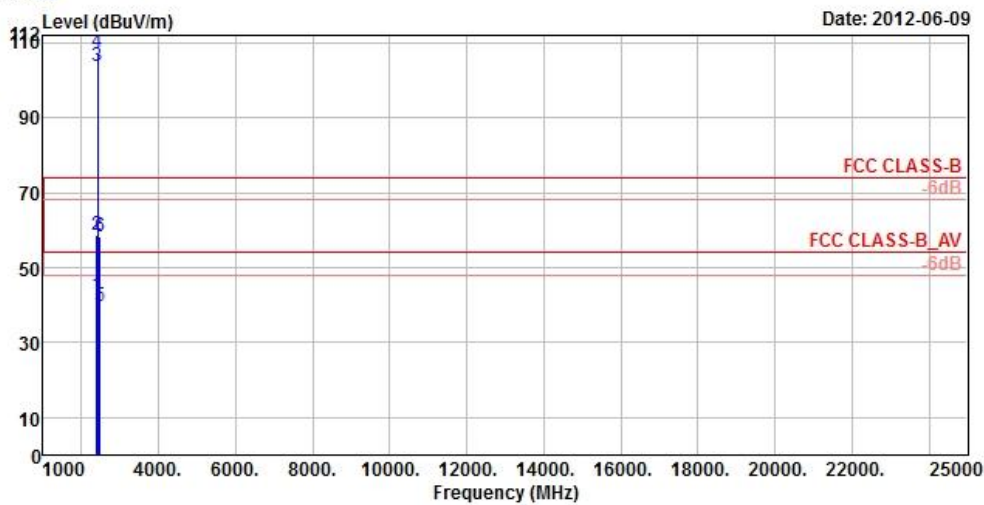
802.11b



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Data: 19



Date: 2012-06-09

Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF HORIZONTAL
 Brand/Model: PL01210
 Remark : 11B TX CH01
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : 1M
 Power : 18

| | Freq | Level | Read Level | Limit Line | OverAntenna Limit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-------------------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 42.57 | 47.96 | 54.00 | -11.43 | 27.26 | 4.87 | 37.52 | 100 | 201 | Average |
| 2 | 2390.00 | 58.87 | 64.26 | 74.00 | -15.13 | 27.26 | 4.87 | 37.52 | 100 | 201 | Peak |
| 3 pp | 2412.00 | 103.68 | 109.02 | | | 27.31 | 4.87 | 37.52 | 100 | 201 | Average |
| 4 pk | 2412.00 | 107.25 | 112.59 | | | 27.31 | 4.87 | 37.52 | 100 | 201 | Peak |
| 5 | 2483.50 | 39.62 | 44.52 | 54.00 | -14.38 | 27.50 | 4.92 | 37.32 | 100 | 201 | Average |
| 6 | 2483.50 | 58.31 | 63.21 | 74.00 | -15.69 | 27.50 | 4.92 | 37.32 | 100 | 201 | Peak |



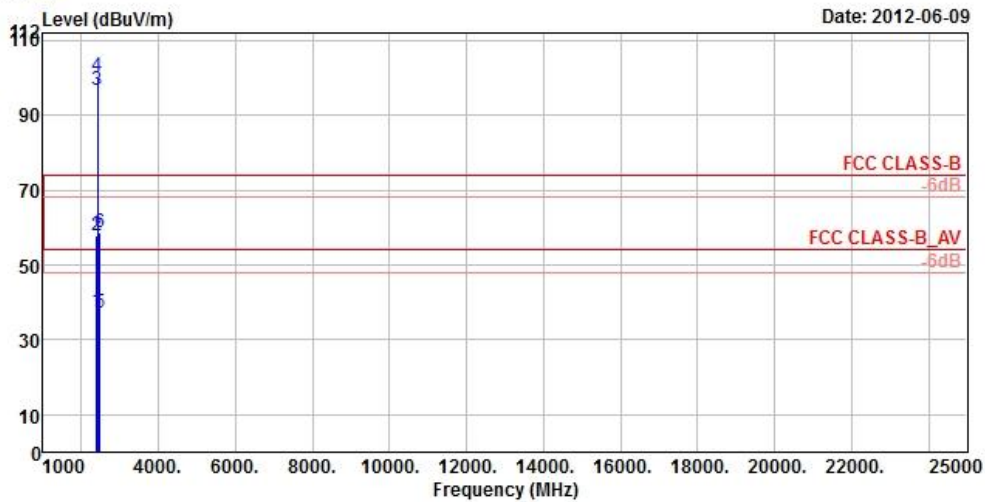
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A D T

Data: 20



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF VERTICAL
 Brand/Model: PL01210
 Remark : 11B TX CH01
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : 1M
 Power : 18

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 37.71 | 43.10 | 54.00 | -16.29 | 27.26 | 4.87 | 37.52 | 112 | 160 | Average |
| 2 | 2390.00 | 57.96 | 63.35 | 74.00 | -16.04 | 27.26 | 4.87 | 37.52 | 112 | 160 | Peak |
| 3 pp | 2412.00 | 96.71 | 102.05 | | | 27.31 | 4.87 | 37.52 | 112 | 160 | Average |
| 4 pk | 2412.00 | 100.49 | 105.83 | | | 27.31 | 4.87 | 37.52 | 112 | 160 | Peak |
| 5 | 2483.50 | 37.11 | 42.01 | 54.00 | -16.89 | 27.50 | 4.92 | 37.32 | 112 | 160 | Average |
| 6 | 2483.50 | 58.53 | 63.43 | 74.00 | -15.47 | 27.50 | 4.92 | 37.32 | 112 | 160 | Peak |



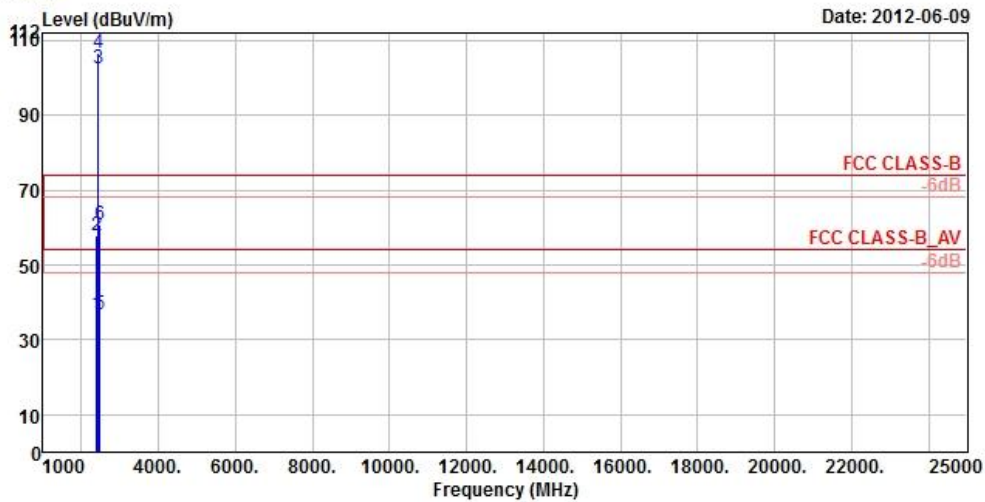
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Data: 19



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF HORIZONTAL
 Brand/Model: PL01210
 Remark : 11B TX CH06
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : 1M
 Power : 18

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|---|------------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 36.76 | 42.15 | 54.00 | -17.24 | 27.26 | 4.87 | 37.52 | 100 | 203 | Average |
| 2 | 2390.00 | 58.06 | 63.45 | 74.00 | -15.94 | 27.26 | 4.87 | 37.52 | 100 | 203 | Peak |
| 3 | pp 2437.00 | 102.34 | 107.51 | | | 27.40 | 4.89 | 37.46 | 100 | 203 | Average |
| 4 | pk 2437.00 | 106.55 | 111.72 | | | 27.40 | 4.89 | 37.46 | 100 | 203 | Peak |
| 5 | 2484.00 | 36.63 | 41.53 | 54.00 | -17.37 | 27.50 | 4.92 | 37.32 | 100 | 203 | Average |
| 6 | 2484.00 | 60.63 | 65.53 | 74.00 | -13.37 | 27.50 | 4.92 | 37.32 | 100 | 203 | Peak |



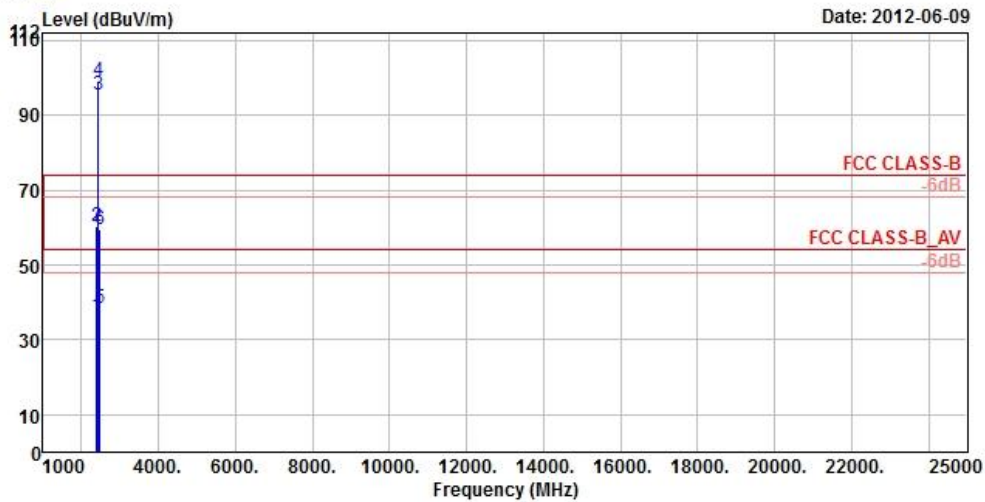
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 20



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF VERTICAL
 Brand/Model: PL01210
 Remark : 11B TX CH06
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : 1M
 Power : 18

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 36.45 | 41.84 | 54.00 | -17.55 | 27.26 | 4.87 | 37.52 | 114 | 157 | Average |
| 2 | 2390.00 | 60.50 | 65.89 | 74.00 | -13.50 | 27.26 | 4.87 | 37.52 | 114 | 157 | Peak |
| 3 pp | 2437.00 | 95.45 | 100.62 | | | 27.40 | 4.89 | 37.46 | 114 | 157 | Average |
| 4 pk | 2437.00 | 99.21 | 104.38 | | | 27.40 | 4.89 | 37.46 | 114 | 157 | Peak |
| 5 | 2483.50 | 38.36 | 43.26 | 54.00 | -15.64 | 27.50 | 4.92 | 37.32 | 114 | 157 | Average |
| 6 | 2483.50 | 59.36 | 64.26 | 74.00 | -14.64 | 27.50 | 4.92 | 37.32 | 114 | 157 | Peak |



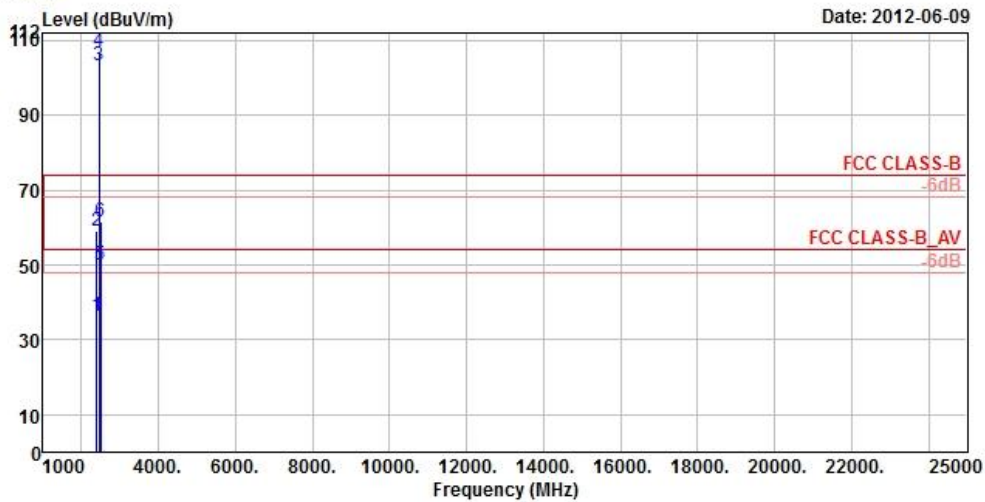
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 19



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF HORIZONTAL
 Brand/Model: PL01210
 Remark : 11B TX CH11
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : 1M
 Power : 18

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|---|------------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 36.22 | 41.61 | 54.00 | -17.78 | 27.26 | 4.87 | 37.52 | 123 | 203 | Average |
| 2 | 2390.00 | 59.26 | 64.65 | 74.00 | -14.74 | 27.26 | 4.87 | 37.52 | 123 | 203 | Peak |
| 3 | pp 2462.00 | 103.38 | 108.41 | | | 27.45 | 4.91 | 37.39 | 123 | 203 | Average |
| 4 | pk 2462.00 | 107.10 | 112.13 | | | 27.45 | 4.91 | 37.39 | 123 | 203 | Peak |
| 5 | ! 2488.00 | 50.15 | 55.00 | 54.00 | -3.85 | 27.55 | 4.92 | 37.32 | 123 | 203 | Average |
| 6 | 2488.00 | 61.71 | 66.56 | 74.00 | -12.29 | 27.55 | 4.92 | 37.32 | 123 | 203 | Peak |



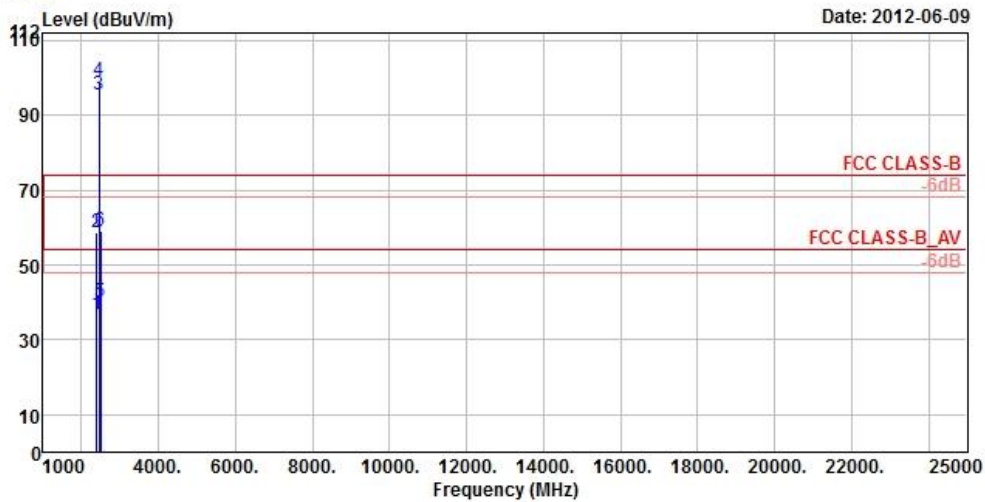
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 20



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF VERTICAL
 Brand/Model: PL01210
 Remark : 11B TX CH11
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : 1M
 Power : 18

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 36.60 | 41.99 | 54.00 | -17.40 | 27.26 | 4.87 | 37.52 | 113 | 192 | Average |
| 2 | 2390.00 | 58.74 | 64.13 | 74.00 | -15.26 | 27.26 | 4.87 | 37.52 | 113 | 192 | Peak |
| 3 pp | 2462.00 | 95.38 | 100.41 | | | 27.45 | 4.91 | 37.39 | 113 | 192 | Average |
| 4 pk | 2462.00 | 99.18 | 104.21 | | | 27.45 | 4.91 | 37.39 | 113 | 192 | Peak |
| 5 | 2488.00 | 40.12 | 44.97 | 54.00 | -13.88 | 27.55 | 4.92 | 37.32 | 113 | 192 | Average |
| 6 | 2488.00 | 59.11 | 63.96 | 74.00 | -14.89 | 27.55 | 4.92 | 37.32 | 113 | 192 | Peak |



A D T

802.11g

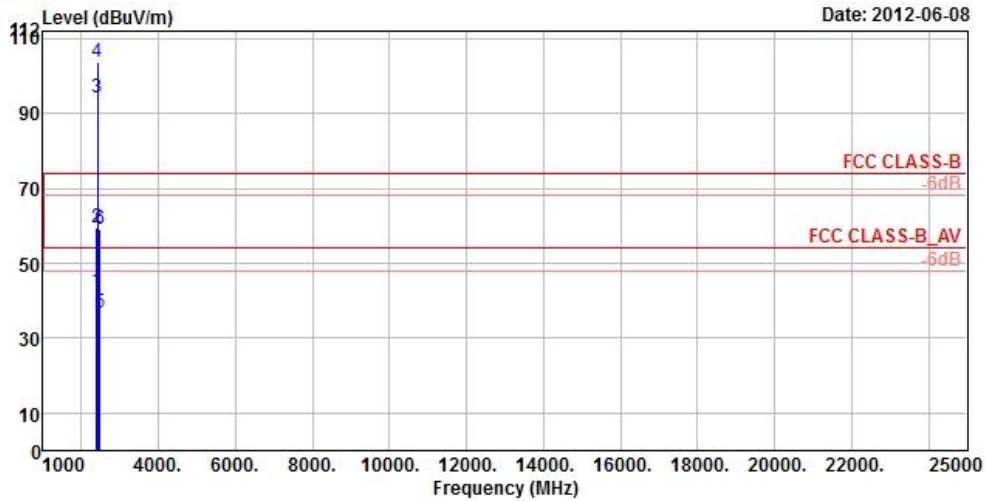


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 19

Date: 2012-06-08



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF HORIZONTAL
 Brand/Model: PL01210
 Remark : 11G TX CH01
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : 6M
 Power : 13

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 42.50 | 47.89 | 54.00 | -11.50 | 27.26 | 4.87 | 37.52 | 150 | 201 | Average |
| 2 | 2390.00 | 59.69 | 65.08 | 74.00 | -14.31 | 27.26 | 4.87 | 37.52 | 150 | 201 | Peak |
| 3 pp | 2412.00 | 94.20 | 99.54 | | | 27.31 | 4.87 | 37.52 | 150 | 201 | Average |
| 4 pk | 2412.00 | 103.87 | 109.21 | | | 27.31 | 4.87 | 37.52 | 150 | 201 | Peak |
| 5 | 2483.50 | 36.74 | 41.64 | 54.00 | -17.26 | 27.50 | 4.92 | 37.32 | 150 | 201 | Average |
| 6 | 2483.50 | 59.16 | 64.06 | 74.00 | -14.84 | 27.50 | 4.92 | 37.32 | 150 | 201 | Peak |



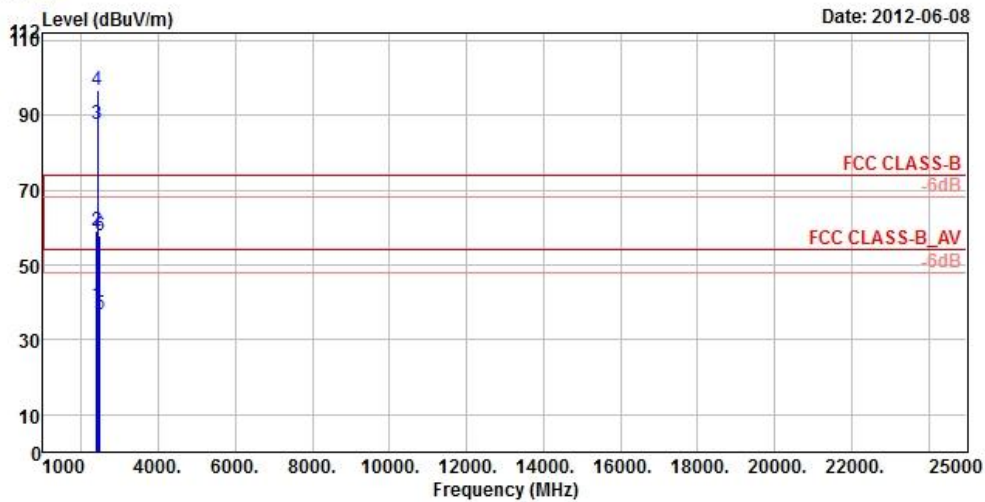
A D T



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A D T

Data: 20



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF VERTICAL
 Brand/Model: PL01210
 Remark : 11G TX CH01
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : 6M
 Power : 13

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 39.23 | 44.62 | 54.00 | -14.77 | 27.26 | 4.87 | 37.52 | 113 | 202 | Average |
| 2 | 2390.00 | 59.17 | 64.56 | 74.00 | -14.83 | 27.26 | 4.87 | 37.52 | 113 | 202 | Peak |
| 3 pp | 2412.00 | 87.76 | 93.10 | | | 27.31 | 4.87 | 37.52 | 113 | 202 | Average |
| 4 pk | 2412.00 | 96.88 | 102.22 | | | 27.31 | 4.87 | 37.52 | 113 | 202 | Peak |
| 5 | 2483.50 | 36.81 | 41.71 | 54.00 | -17.19 | 27.50 | 4.92 | 37.32 | 113 | 202 | Average |
| 6 | 2483.50 | 57.68 | 62.58 | 74.00 | -16.32 | 27.50 | 4.92 | 37.32 | 113 | 202 | Peak |



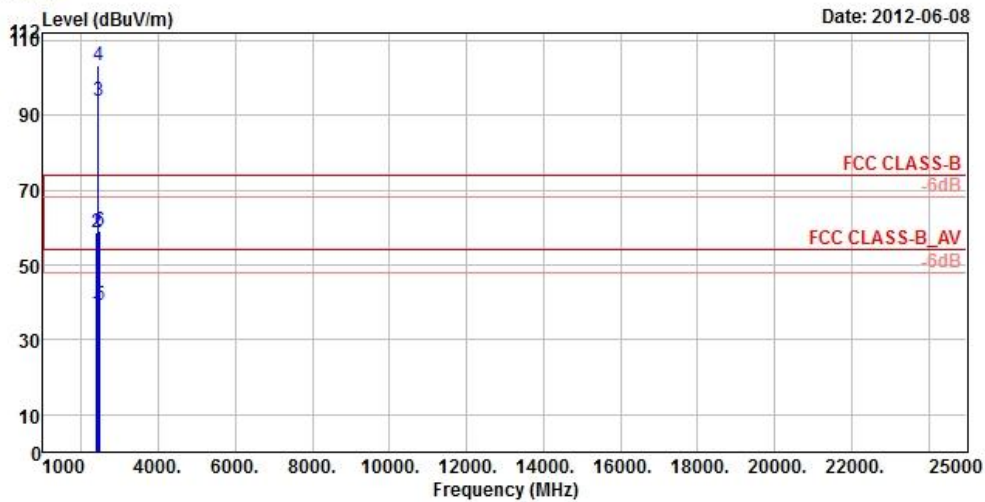
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A D T

Data: 19



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF HORIZONTAL
 Brand/Model: PL01210
 Remark : 11G TX CH06
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : 6M
 Power : 13

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|---|------------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 37.18 | 42.57 | 54.00 | -16.82 | 27.26 | 4.87 | 37.52 | 147 | 198 | Average |
| 2 | 2390.00 | 58.56 | 63.95 | 74.00 | -15.44 | 27.26 | 4.87 | 37.52 | 147 | 198 | Peak |
| 3 | pp 2437.00 | 93.74 | 98.91 | | | 27.40 | 4.89 | 37.46 | 147 | 198 | Average |
| 4 | pk 2437.00 | 103.38 | 108.55 | | | 27.40 | 4.89 | 37.46 | 147 | 198 | Peak |
| 5 | 2483.50 | 39.15 | 44.05 | 54.00 | -14.85 | 27.50 | 4.92 | 37.32 | 147 | 198 | Average |
| 6 | 2483.50 | 59.13 | 64.03 | 74.00 | -14.87 | 27.50 | 4.92 | 37.32 | 147 | 198 | Peak |



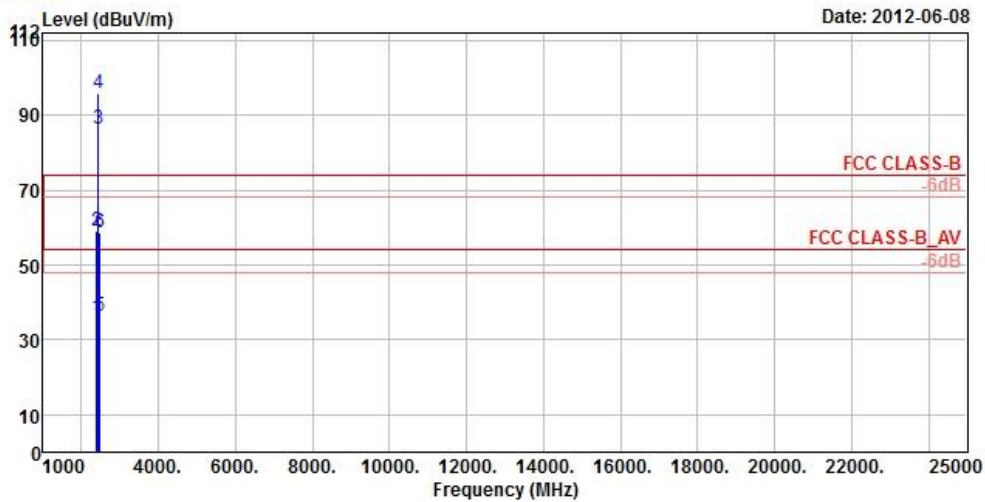
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 20



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF VERTICAL
 Brand/Model: PL01210
 Remark : 11G TX CH06
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : 6M
 Power : 13

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 36.00 | 41.39 | 54.00 | -18.00 | 27.26 | 4.87 | 37.52 | 100 | 270 | Average |
| 2 | 2390.00 | 59.11 | 64.50 | 74.00 | -14.89 | 27.26 | 4.87 | 37.52 | 100 | 270 | Peak |
| 3 pp | 2437.00 | 86.29 | 91.46 | | | 27.40 | 4.89 | 37.46 | 100 | 270 | Average |
| 4 pk | 2437.00 | 95.74 | 100.91 | | | 27.40 | 4.89 | 37.46 | 100 | 270 | Peak |
| 5 | 2483.50 | 36.55 | 41.45 | 54.00 | -17.45 | 27.50 | 4.92 | 37.32 | 100 | 270 | Average |
| 6 | 2483.50 | 58.74 | 63.64 | 74.00 | -15.26 | 27.50 | 4.92 | 37.32 | 100 | 270 | Peak |



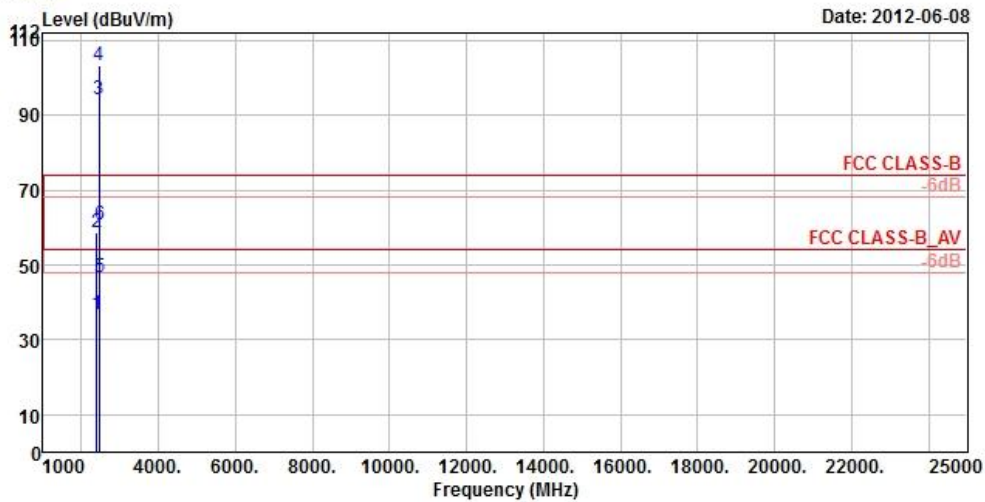
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 19



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF HORIZONTAL
 Brand/Model: PL01210
 Remark : 11G TX CH11
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : 6M
 Power : 13

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 36.73 | 42.12 | 54.00 | -17.27 | 27.26 | 4.87 | 37.52 | 150 | 203 | Average |
| 2 | 2390.00 | 58.64 | 64.03 | 74.00 | -15.36 | 27.26 | 4.87 | 37.52 | 150 | 203 | Peak |
| 3 pp | 2462.00 | 94.07 | 99.10 | | | 27.45 | 4.91 | 37.39 | 150 | 203 | Average |
| 4 pk | 2462.00 | 103.21 | 108.24 | | | 27.45 | 4.91 | 37.39 | 150 | 203 | Peak |
| 5 | 2483.50 | 46.74 | 51.64 | 54.00 | -7.26 | 27.50 | 4.92 | 37.32 | 150 | 203 | Average |
| 6 | 2483.50 | 60.70 | 65.60 | 74.00 | -13.30 | 27.50 | 4.92 | 37.32 | 150 | 203 | Peak |



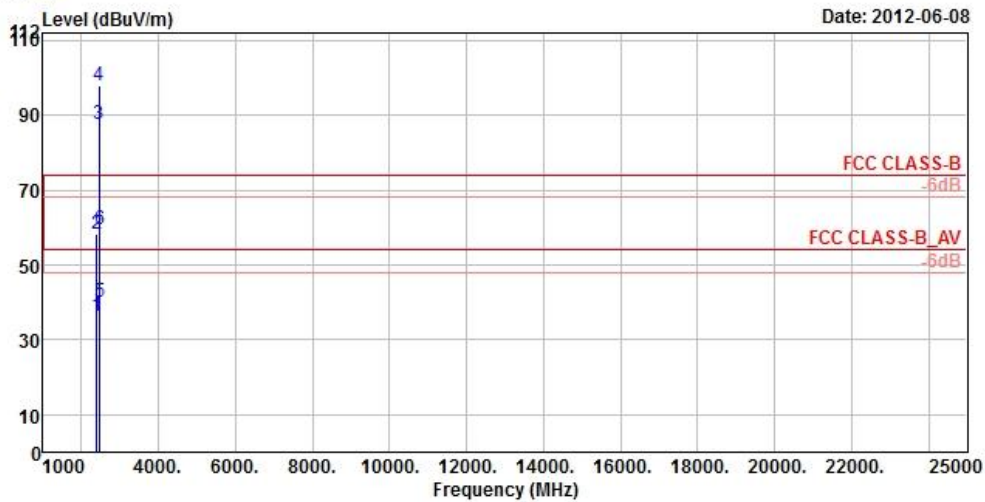
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 20



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF VERTICAL
 Brand/Model: PL01210
 Remark : 11G TX CH11
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : 6M
 Power : 13

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 36.29 | 41.68 | 54.00 | -17.71 | 27.26 | 4.87 | 37.52 | 100 | 271 | Average |
| 2 | 2390.00 | 58.15 | 63.54 | 74.00 | -15.85 | 27.26 | 4.87 | 37.52 | 100 | 271 | Peak |
| 3 pp | 2462.00 | 87.78 | 92.81 | | | 27.45 | 4.91 | 37.39 | 100 | 271 | Average |
| 4 pk | 2462.00 | 97.86 | 102.89 | | | 27.45 | 4.91 | 37.39 | 100 | 271 | Peak |
| 5 | 2483.50 | 40.17 | 45.07 | 54.00 | -13.83 | 27.50 | 4.92 | 37.32 | 100 | 271 | Average |
| 6 | 2483.50 | 59.62 | 64.52 | 74.00 | -14.38 | 27.50 | 4.92 | 37.32 | 100 | 271 | Peak |



A D T

802.11n (20MHz)

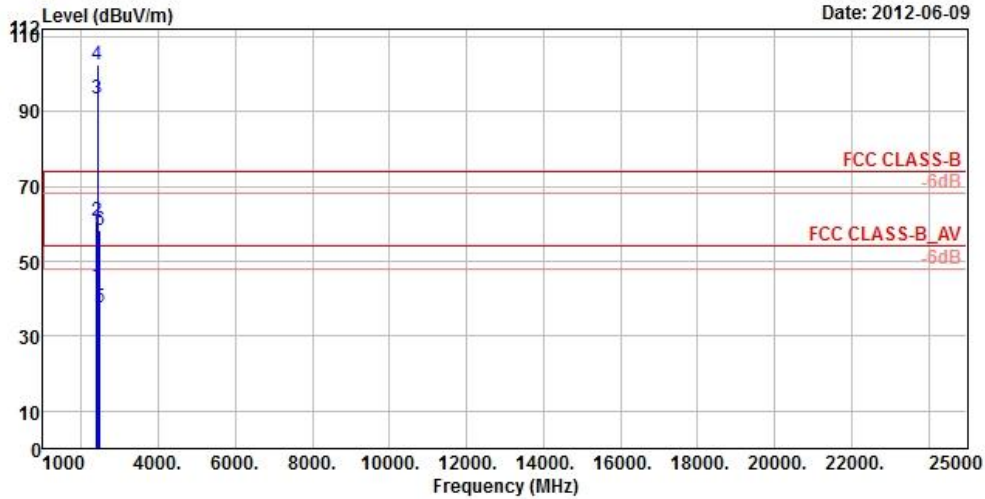


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 19

Date: 2012-06-09



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF HORIZONTAL
 Brand/Model: PL01210
 Remark : 11N HT20 TX CH01
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : MCS0
 Power : 12

| | Freq | Level | Read Level | Limit Line | OverAntenna Limit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-------------------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 43.27 | 48.66 | 54.00 | -10.73 | 27.26 | 4.87 | 37.52 | 100 | 208 | Average |
| 2 | 2390.00 | 60.65 | 66.04 | 74.00 | -13.35 | 27.26 | 4.87 | 37.52 | 100 | 208 | Peak |
| 3 pp | 2412.00 | 93.32 | 98.66 | | | 27.31 | 4.87 | 37.52 | 100 | 208 | Average |
| 4 pk | 2412.00 | 102.59 | 107.93 | | | 27.31 | 4.87 | 37.52 | 100 | 208 | Peak |
| 5 | 2483.50 | 37.74 | 42.64 | 54.00 | -16.26 | 27.50 | 4.92 | 37.32 | 100 | 208 | Average |
| 6 | 2483.50 | 58.28 | 63.18 | 74.00 | -15.72 | 27.50 | 4.92 | 37.32 | 100 | 208 | Peak |



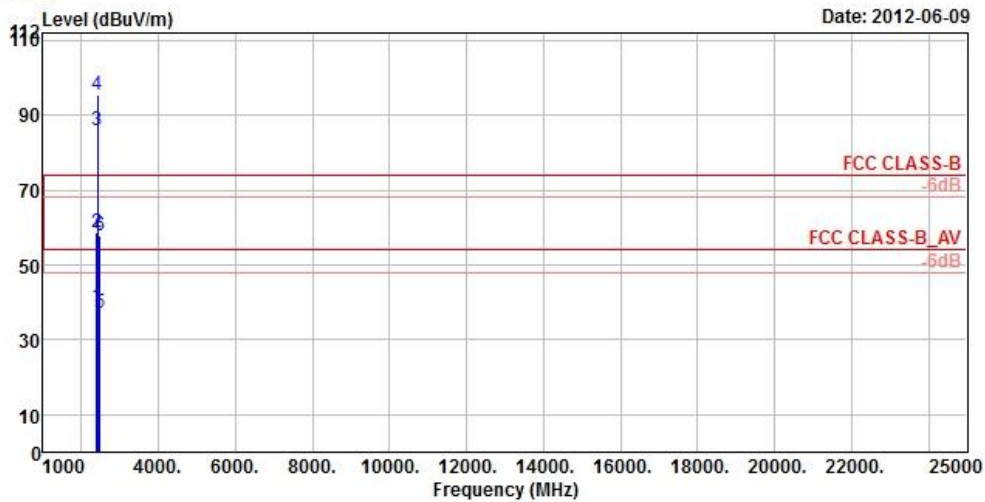
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 20



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF VERTICAL
 Brand/Model: PL01210
 Remark : 11N HT20 TX CH01
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : MCS0
 Power : 12

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 39.00 | 44.39 | 54.00 | -15.00 | 27.26 | 4.87 | 37.52 | 113 | 161 | Average |
| 2 | 2390.00 | 58.55 | 63.94 | 74.00 | -15.45 | 27.26 | 4.87 | 37.52 | 113 | 161 | Peak |
| 3 pp | 2412.00 | 85.84 | 91.18 | | | 27.31 | 4.87 | 37.52 | 113 | 161 | Average |
| 4 pk | 2412.00 | 95.28 | 100.62 | | | 27.31 | 4.87 | 37.52 | 113 | 161 | Peak |
| 5 | 2484.00 | 37.11 | 42.01 | 54.00 | -16.89 | 27.50 | 4.92 | 37.32 | 113 | 161 | Average |
| 6 | 2484.00 | 57.80 | 62.70 | 74.00 | -16.20 | 27.50 | 4.92 | 37.32 | 113 | 161 | Peak |



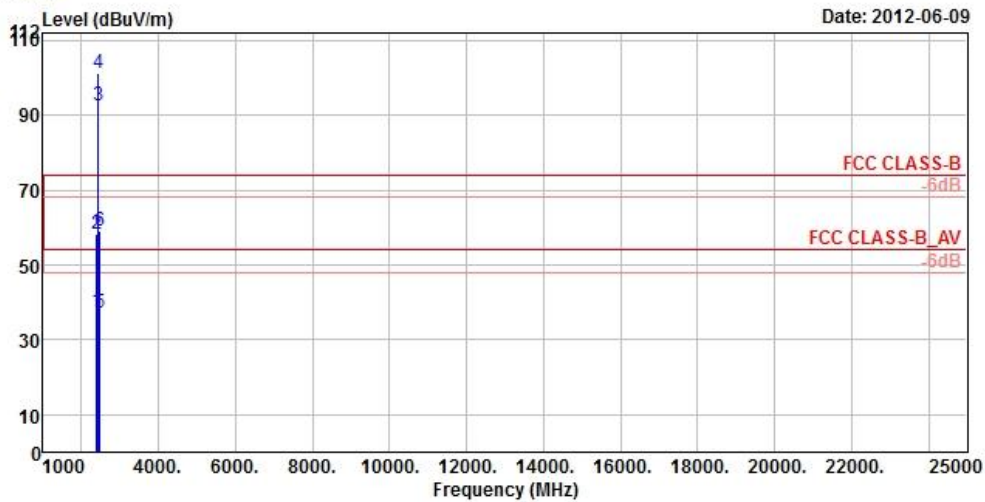
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 19



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF HORIZONTAL
 Brand/Model: PL01210
 Remark : 11N HT20 TX CH06
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : MCS0
 Power : 12

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 37.45 | 42.84 | 54.00 | -16.55 | 27.26 | 4.87 | 37.52 | 143 | 197 | Average |
| 2 | 2390.00 | 58.13 | 63.52 | 74.00 | -15.87 | 27.26 | 4.87 | 37.52 | 143 | 197 | Peak |
| 3 pp | 2437.00 | 92.62 | 97.79 | | | 27.40 | 4.89 | 37.46 | 143 | 197 | Average |
| 4 pk | 2437.00 | 101.17 | 106.34 | | | 27.40 | 4.89 | 37.46 | 143 | 197 | Peak |
| 5 | 2483.50 | 37.05 | 41.95 | 54.00 | -16.95 | 27.50 | 4.92 | 37.32 | 143 | 197 | Average |
| 6 | 2483.50 | 59.28 | 64.18 | 74.00 | -14.72 | 27.50 | 4.92 | 37.32 | 143 | 197 | Peak |



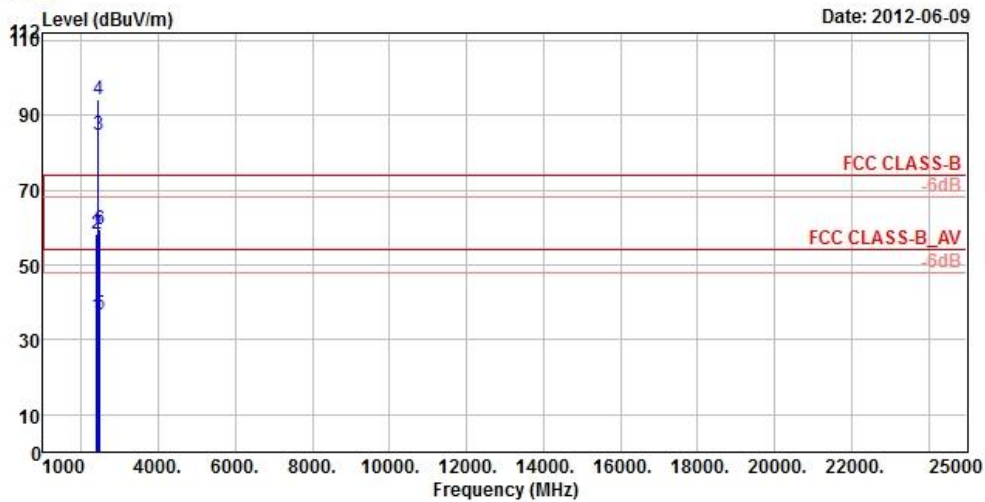
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 20



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF VERTICAL
 Brand/Model: PL01210
 Remark : 11N HT20 TX CH06
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : MCS0
 Power : 12

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|---|------------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 36.36 | 41.75 | 54.00 | -17.64 | 27.26 | 4.87 | 37.52 | 114 | 157 | Average |
| 2 | 2390.00 | 58.16 | 63.55 | 74.00 | -15.84 | 27.26 | 4.87 | 37.52 | 114 | 157 | Peak |
| 3 | pp 2437.00 | 84.65 | 89.82 | | | 27.40 | 4.89 | 37.46 | 114 | 157 | Average |
| 4 | pk 2437.00 | 94.05 | 99.22 | | | 27.40 | 4.89 | 37.46 | 114 | 157 | Peak |
| 5 | 2483.50 | 36.77 | 41.67 | 54.00 | -17.23 | 27.50 | 4.92 | 37.32 | 114 | 157 | Average |
| 6 | 2483.50 | 59.61 | 64.51 | 74.00 | -14.39 | 27.50 | 4.92 | 37.32 | 114 | 157 | Peak |



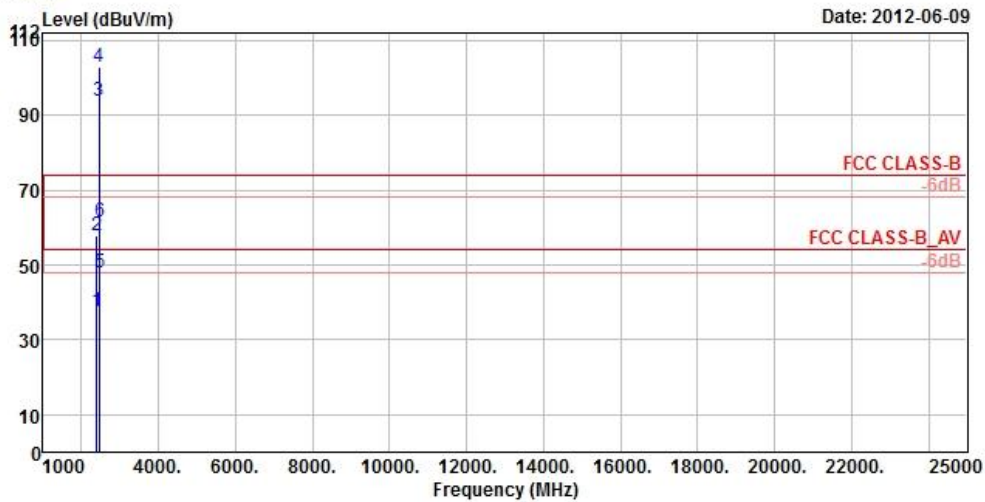
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 19



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF HORIZONTAL
 Brand/Model: PL01210
 Remark : 11N HT20 TX CH11
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : MCS0
 Power : 12

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 37.76 | 43.15 | 54.00 | -16.24 | 27.26 | 4.87 | 37.52 | 121 | 193 | Average |
| 2 | 2390.00 | 57.88 | 63.27 | 74.00 | -16.12 | 27.26 | 4.87 | 37.52 | 121 | 193 | Peak |
| 3 pp | 2462.00 | 93.62 | 98.65 | | | 27.45 | 4.91 | 37.39 | 121 | 193 | Average |
| 4 pk | 2462.00 | 102.94 | 107.97 | | | 27.45 | 4.91 | 37.39 | 121 | 193 | Peak |
| 5 | 2483.50 | 47.95 | 52.85 | 54.00 | -6.05 | 27.50 | 4.92 | 37.32 | 121 | 193 | Average |
| 6 | 2483.50 | 61.63 | 66.53 | 74.00 | -12.37 | 27.50 | 4.92 | 37.32 | 121 | 193 | Peak |



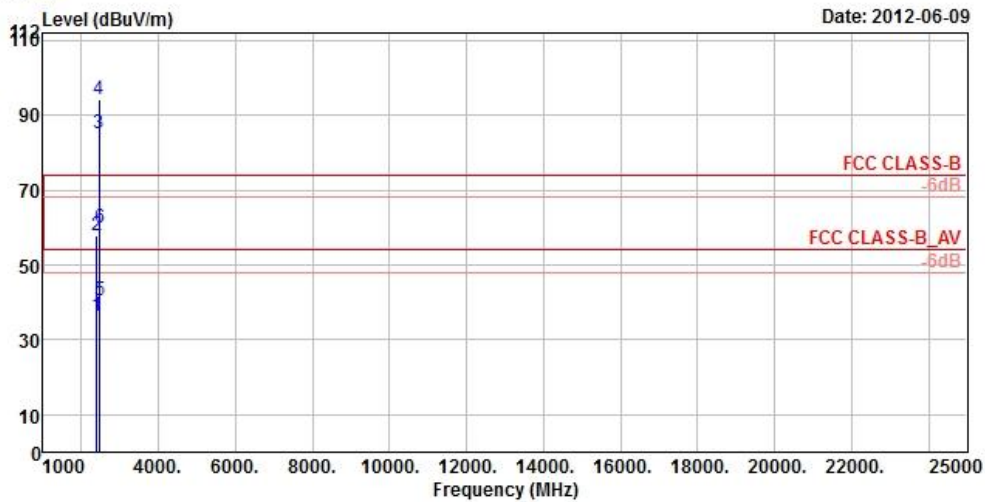
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 20



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_18G~40G_HF VERTICAL
 Brand/Model: PL01210
 Remark : 11N HT20 TX CH11
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z
 Rate : MCS0
 Power : 12

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|---------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|---------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | 2390.00 | 36.34 | 40.13 | 54.00 | -17.66 | 27.26 | 4.87 | 35.92 | 113 | 185 | Average |
| 2 | 2390.00 | 57.94 | 61.73 | 74.00 | -16.06 | 27.26 | 4.87 | 35.92 | 113 | 185 | Peak |
| 3 pp | 2462.00 | 85.16 | 88.69 | | | 27.45 | 4.91 | 35.89 | 113 | 185 | Average |
| 4 pk | 2462.00 | 94.32 | 97.85 | | | 27.45 | 4.91 | 35.89 | 113 | 185 | Peak |
| 5 | 2484.00 | 40.40 | 43.85 | 54.00 | -13.60 | 27.50 | 4.92 | 35.87 | 113 | 185 | Average |
| 6 | 2484.00 | 60.04 | 63.49 | 74.00 | -13.96 | 27.50 | 4.92 | 35.87 | 113 | 185 | Peak |



A D T

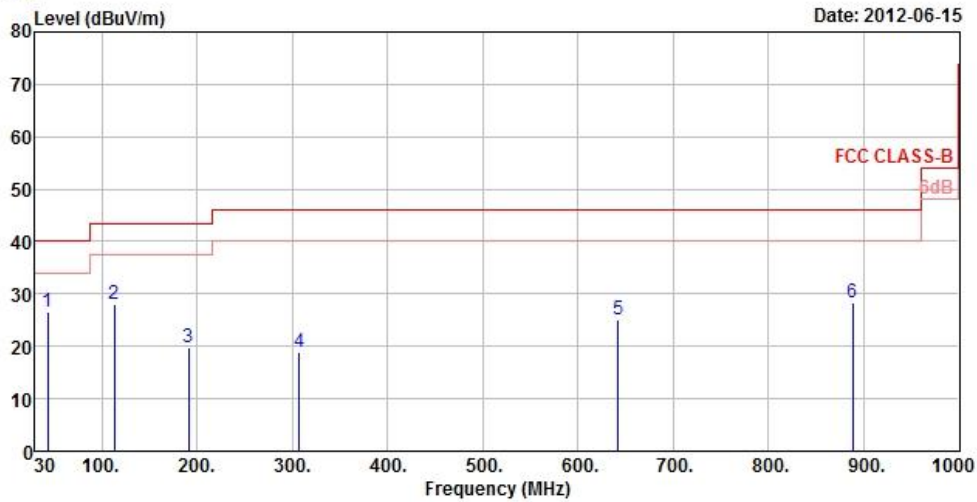
BELOW 1GHz WORST-CASE DATA : 802.11g



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_30M~1G_LF HORIZONTAL
 Brand/Model: PL01210
 Remark : WIFI TX LF
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|------|--------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|--------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 pp | 43.23 | 26.55 | 43.36 | 40.00 | -13.45 | 13.59 | 0.71 | 31.11 | 100 | 174 | Peak |
| 2 | 113.16 | 28.07 | 48.41 | 43.50 | -15.43 | 10.37 | 1.15 | 31.86 | 107 | 44 | Peak |
| 3 | 190.92 | 19.77 | 39.92 | 43.50 | -23.73 | 9.98 | 1.55 | 31.68 | 133 | 227 | Peak |
| 4 | 307.00 | 18.93 | 35.64 | 46.00 | -27.07 | 13.13 | 2.08 | 31.92 | 100 | 199 | Peak |
| 5 | 642.30 | 24.96 | 33.70 | 46.00 | -21.04 | 20.12 | 3.22 | 32.08 | 221 | 120 | Peak |
| 6 | 888.70 | 28.27 | 32.97 | 46.00 | -17.73 | 23.36 | 3.93 | 31.99 | 174 | 133 | Peak |



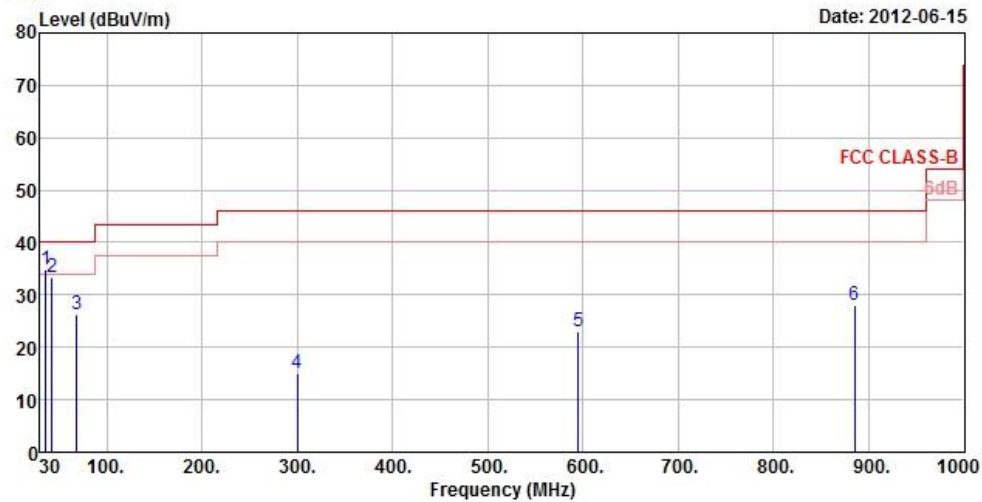
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m ANT_30M~1G_LF VERTICAL
 Brand/Model: PL01210
 Remark : WIFI TX LF
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

| | Freq | Level | Read Level | Limit Line | OverLimit | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|---|------|--------|------------|------------|-----------|----------------|------------|---------------|-------|-------|----------|
| | MHz | dBuV/m | dBuV | dBuV/m | dB | dB/m | dB | dB | cm | deg | |
| 1 | pp | 35.67 | 34.83 | 52.33 | 40.00 | -5.17 | 12.94 | 0.61 | 31.05 | 100 | 0 QP |
| 2 | | 42.69 | 33.43 | 50.23 | 40.00 | -6.57 | 13.58 | 0.70 | 31.08 | 100 | 322 QP |
| 3 | pk | 68.34 | 26.18 | 46.17 | 40.00 | -13.82 | 10.89 | 0.89 | 31.77 | 100 | 285 Peak |
| 4 | | 300.00 | 15.15 | 32.00 | 46.00 | -30.85 | 12.94 | 2.05 | 31.84 | 196 | 64 Peak |
| 5 | | 594.70 | 23.04 | 32.68 | 46.00 | -22.96 | 19.48 | 3.07 | 32.19 | 133 | 274 Peak |
| 6 | | 885.20 | 28.07 | 32.82 | 46.00 | -17.93 | 23.32 | 3.92 | 31.99 | 100 | 244 Peak |



A D T

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dB μ V) | |
|-----------------------------|------------------------------|----------|
| | Quasi-peak | Average |
| 0.15 ~ 0.5 | 66 to 56 | 56 to 46 |
| 0.5 ~ 5 | 56 | 46 |
| 5 ~ 30 | 60 | 50 |

- NOTE:** 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|--------------------------|----------------|---------------------|-------------------------|
| Test Receiver ROHDE & SCHWARZ | ESCS30 | 100289 | Nov. 19, 2011 | Nov. 18, 2012 |
| RF signal cable Woken | 5D-FB | Cable-HYCO2-01 | Dec. 22, 2011 | Dec. 21, 2012 |
| LISN ROHDE & SCHWARZ (EUT) | ESH2-Z5 | 100100 | Dec. 30, 2011 | Dec. 29, 2012 |
| LISN ROHDE & SCHWARZ (Peripheral) | ESH3-Z5 | 100312 | Jul. 07, 2011 | Jul. 06, 2012 |
| Software ADT | BV ADT_Cond_ V7.3.7.3 | NA | NA | NA |

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 2.
3. The VCCI Site Registration No. is C-2047.

4.2.3 TEST PROCEDURES

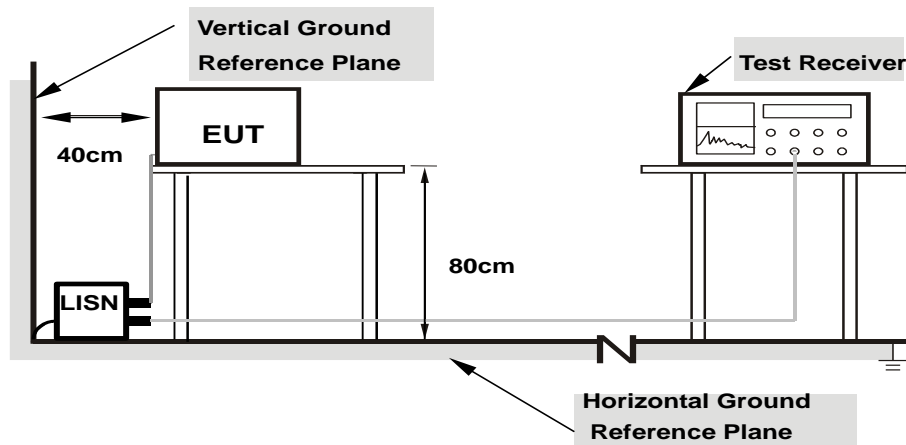
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



- Note:**
- Support units were connected to second LISN.
 - Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

4.2.7 TEST RESULTS

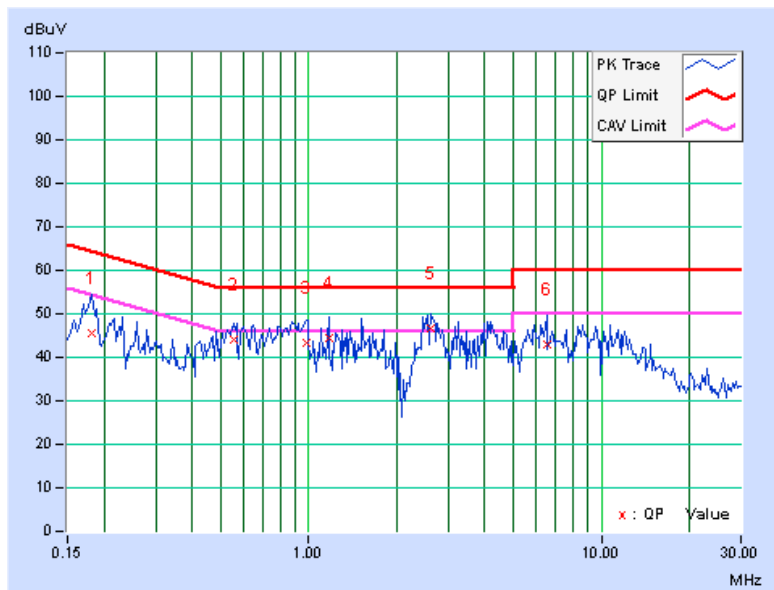
CONDUCTED WORST-CASE DATA : 802.11g

| | | | |
|--------------|--------|----------------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
|--------------|--------|----------------------|------|

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|----------|----------------|--------------|---------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|
| | [MHz] | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.18125 | 0.15 | 45.38 | 32.21 | 45.53 | 32.36 | 64.43 | 54.43 | -18.90 | -22.07 |
| 2 | 0.55625 | 0.18 | 43.89 | 30.87 | 44.07 | 31.05 | 56.00 | 46.00 | -11.93 | -14.95 |
| 3 | 0.97813 | 0.19 | 43.06 | 34.56 | 43.25 | 34.75 | 56.00 | 46.00 | -12.75 | -11.25 |
| 4 | 1.16797 | 0.20 | 44.10 | 35.12 | 44.30 | 35.32 | 56.00 | 46.00 | -11.70 | -10.68 |
| 5 | 2.62891 | 0.29 | 46.29 | 38.71 | 46.58 | 39.00 | 56.00 | 46.00 | -9.42 | -7.00 |
| 6 | 6.50391 | 0.38 | 42.52 | 33.42 | 42.90 | 33.80 | 60.00 | 50.00 | -17.10 | -16.20 |

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.





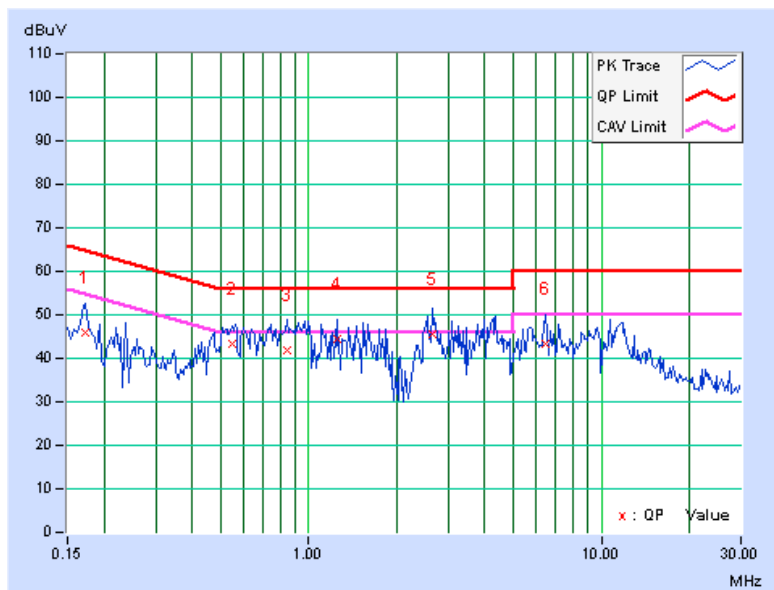
A D T

| | | | |
|-------|--------|---------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
|-------|--------|---------------|------|

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|----|---------|--------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | [MHz] | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.17344 | 0.13 | 45.81 | 32.77 | 45.94 | 32.90 | 64.79 | 54.79 | -18.85 | -21.89 |
| 2 | 0.54844 | 0.17 | 43.34 | 27.33 | 43.51 | 27.50 | 56.00 | 46.00 | -12.49 | -18.50 |
| 3 | 0.84531 | 0.18 | 41.71 | 33.30 | 41.89 | 33.48 | 56.00 | 46.00 | -14.11 | -12.52 |
| 4 | 1.24609 | 0.21 | 44.10 | 36.49 | 44.31 | 36.70 | 56.00 | 46.00 | -11.69 | -9.30 |
| 5 | 2.63281 | 0.29 | 45.32 | 38.18 | 45.61 | 38.47 | 56.00 | 46.00 | -10.39 | -7.53 |
| 6 | 6.41016 | 0.40 | 42.91 | 33.68 | 43.31 | 34.08 | 60.00 | 50.00 | -16.69 | -15.92 |

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

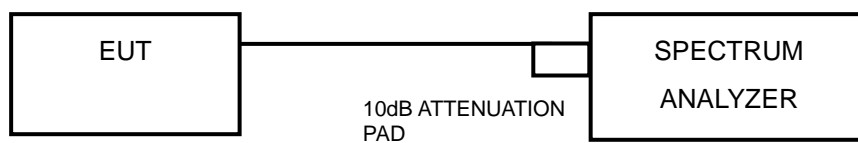


4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST SETUP



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.3.4 TEST PROCEDURE

- a. Set resolution bandwidth (RBW) = approximately 1% of the emission bandwidth
- b. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.3.7 TEST RESULTS

802.11b

| CHANNEL | FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|-----------------|---------------------|---------------------|-------------|
| 1 | 2412 | 7.06 | 0.5 | PASS |
| 6 | 2437 | 7.54 | 0.5 | PASS |
| 11 | 2462 | 7.52 | 0.5 | PASS |

802.11g

| CHANNEL | FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|-----------------|---------------------|---------------------|-------------|
| 1 | 2412 | 15.82 | 0.5 | PASS |
| 6 | 2437 | 15.74 | 0.5 | PASS |
| 11 | 2462 | 15.76 | 0.5 | PASS |

802.11n (20MHz)

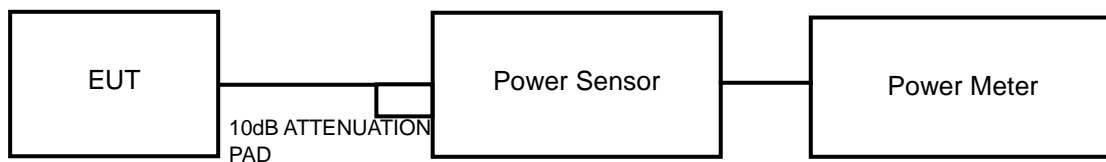
| CHANNEL | FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|-----------------|---------------------|---------------------|-------------|
| 1 | 2412 | 17.24 | 0.5 | PASS |
| 6 | 2437 | 17.24 | 0.5 | PASS |
| 11 | 2462 | 17.30 | 0.5 | PASS |

4.4 CONDUCTED OUTPUT POWER

4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.4.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the peak power level.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.



4.4.7 TEST RESULTS

802.11b

| CHANNEL | FREQUENCY (MHz) | PEAK POWER (W) | PEAK POWER (dBm) | LIMIT (dBm) | PASS/FAIL |
|---------|-----------------|----------------|------------------|-------------|-----------|
| 1 | 2412 | 0.130 | 21.13 | 30 | PASS |
| 6 | 2437 | 0.132 | 21.19 | 30 | PASS |
| 11 | 2462 | 0.143 | 21.54 | 30 | PASS |

802.11g

| CHANNEL | FREQUENCY (MHz) | PEAK POWER (W) | PEAK POWER (dBm) | LIMIT (dBm) | PASS/FAIL |
|---------|-----------------|----------------|------------------|-------------|-----------|
| 1 | 2412 | 0.205 | 23.11 | 30 | PASS |
| 6 | 2437 | 0.239 | 23.79 | 30 | PASS |
| 11 | 2462 | 0.251 | 24 | 30 | PASS |

802.11n (20MHz)

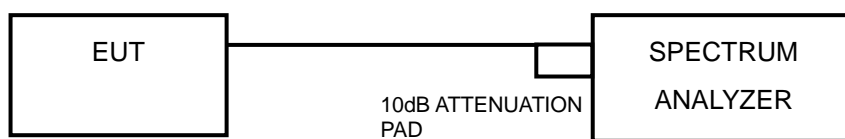
| CHANNEL | FREQUENCY (MHz) | PEAK POWER (W) | PEAK POWER (dBm) | LIMIT (dBm) | PASS/FAIL |
|---------|-----------------|----------------|------------------|-------------|-----------|
| 1 | 2412 | 0.177 | 22.47 | 30 | PASS |
| 6 | 2437 | 0.211 | 23.24 | 30 | PASS |
| 11 | 2462 | 0.220 | 23.42 | 30 | PASS |

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.5.4 TEST PROCEDURE

- Set the RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
- Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3 \text{ kHz}/100\text{kHz})$

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6

4.5.7 TEST RESULTS

802.11b

| Channel | FREQ. (MHz) | PSD (dBm/100kHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | PASS /FAIL |
|---------|-------------|------------------|----------------|------------------|------------|
| 1 | 2412 | 11.14 | -4.06 | 8 | PASS |
| 6 | 2437 | 11.06 | -4.14 | 8 | PASS |
| 11 | 2462 | 11.21 | -3.99 | 8 | PASS |

802.11g

| Channel | FREQ. (MHz) | PSD (dBm/100kHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | PASS /FAIL |
|---------|-------------|------------------|----------------|------------------|------------|
| 1 | 2412 | 2.50 | -12.70 | 8 | PASS |
| 6 | 2437 | 2.48 | -12.72 | 8 | PASS |
| 11 | 2462 | 2.73 | -12.47 | 8 | PASS |

802.11n (20MHz)

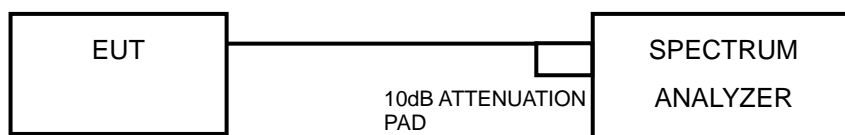
| Channel | FREQ. (MHz) | PSD (dBm/100kHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | PASS /FAIL |
|---------|-------------|------------------|----------------|------------------|------------|
| 1 | 2412 | 1.48 | -13.72 | 8 | PASS |
| 6 | 2437 | 1.64 | -13.56 | 8 | PASS |
| 11 | 2462 | 1.91 | -13.29 | 8 | PASS |

4.6 CONDUCTED OUT OF BAND EMISSION MEASUREMENT

4.6.1 LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW \geq 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW \geq 300 kHz.
3. Set span to encompass the spectrum to be examined.
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

4.6.6 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.7 TEST RESULTS

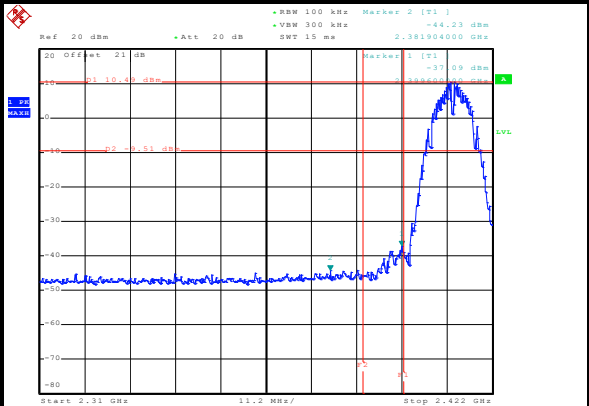
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.



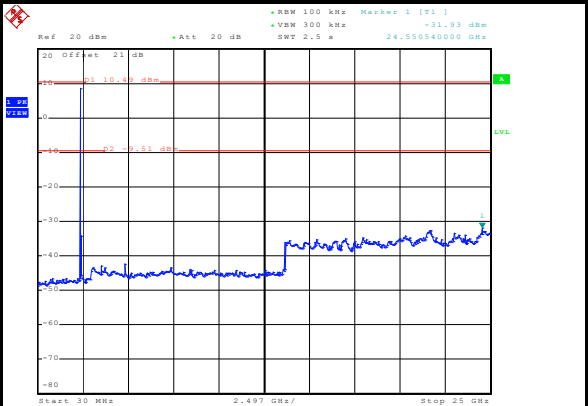
A D T

802.11b

CH 1

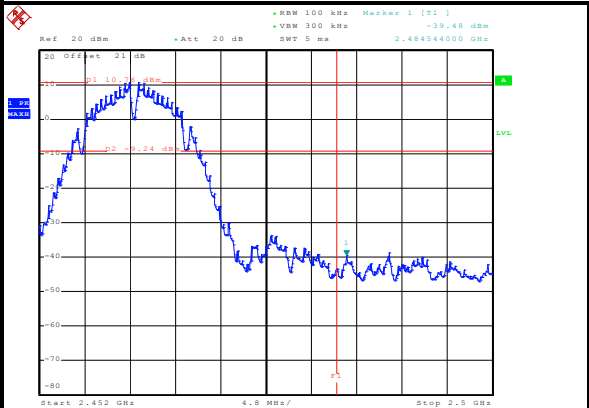


Date: 22.JUN.2012 15:37:02

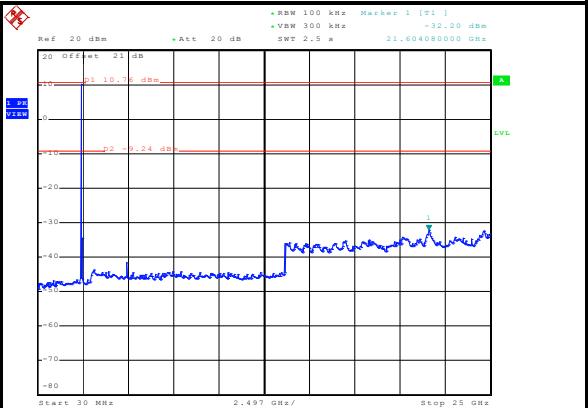


Date: 22.JUN.2012 15:41:32

CH 11



Date: 22.JUN.2012 15:44:29



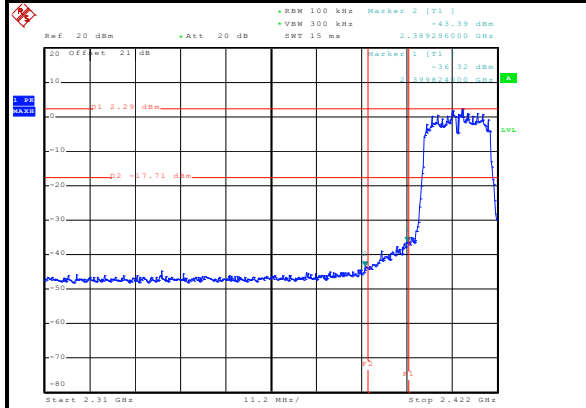
Date: 22.JUN.2012 15:47:01



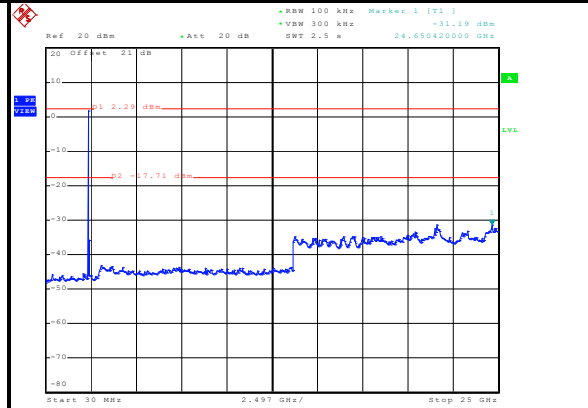
A D T

802.11g

CH 1

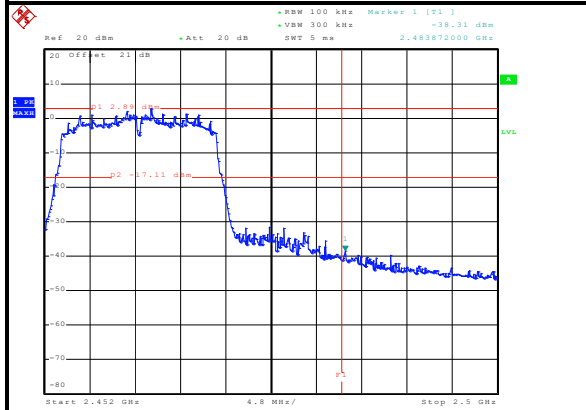


Date: 22.JUN.2012 16:02:59

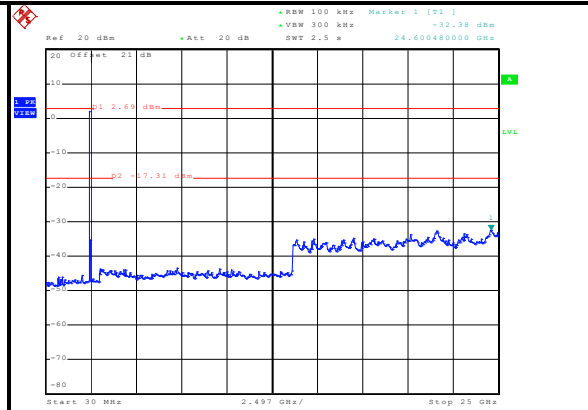


Date: 22.JUN.2012 16:14:30

CH 11



Date: 22.JUN.2012 16:38:05



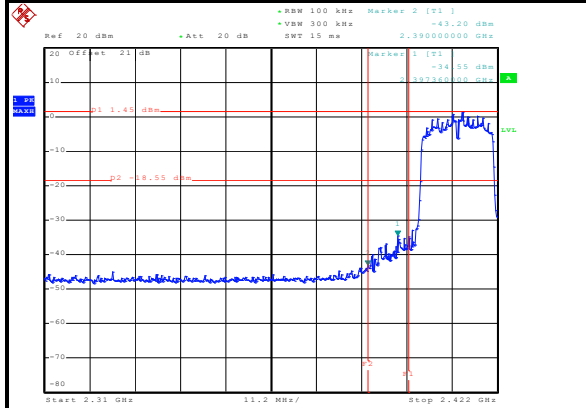
Date: 22.JUN.2012 16:44:24



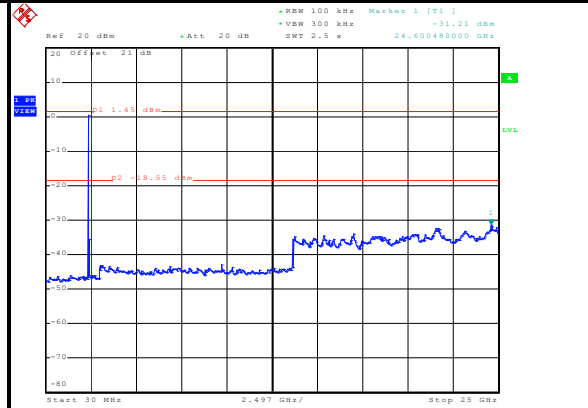
A D T

802.11n (20MHz)

CH 1

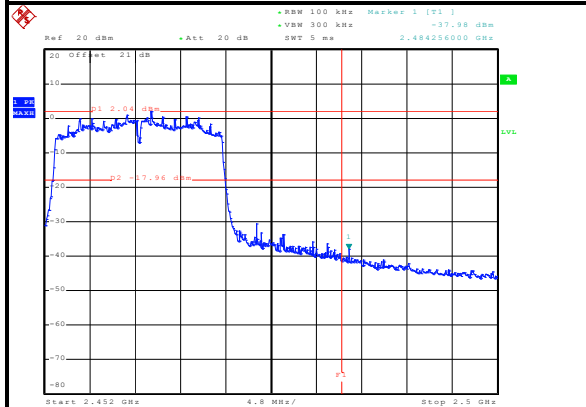


Date: 25.JUN.2012 15:38:04

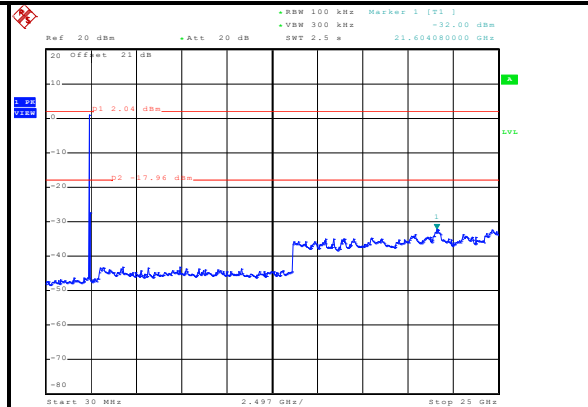


Date: 25.JUN.2012 15:47:27

CH 11



Date: 25.JUN.2012 16:11:42



Date: 25.JUN.2012 16:24:27



A D T

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.



A D T

7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

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