



FCC TEST REPORT (15.407)

REPORT NO.: RF120305C07A R1
MODEL NO.: DIR-826LMO1
FCC ID: KA2IR826LMO1
RECEIVED: May 03, 2012
TESTED: May 26 ~ Jul. 19, 2012
ISSUED: Jul. 19, 2012

APPLICANT: D-Link Corporation

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TABLE OF CONTENTS

| | |
|---|----|
| RELEASE CONTROL RECORD | 4 |
| 1. CERTIFICATION | 5 |
| 2. SUMMARY OF TEST RESULTS | 6 |
| 2.1 MEASUREMENT UNCERTAINTY | 6 |
| 3. GENERAL INFORMATION | 7 |
| 3.1 GENERAL DESCRIPTION OF EUT | 7 |
| 3.2 DESCRIPTION OF TEST MODES | 8 |
| 3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL | 9 |
| 3.3 DUTY CYCLE OF TEST SIGNAL | 11 |
| 3.4 DESCRIPTION OF SUPPORT UNITS | 11 |
| 3.4.1 CONFIGURATION OF SYSTEM UNDER TEST | 11 |
| 3.5 GENERAL DESCRIPTION OF APPLIED STANDARDS | 12 |
| 4. TEST TYPES AND RESULTS | 13 |
| 4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT | 13 |
| 4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT | 13 |
| 4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS | 13 |
| 4.1.3 TEST INSTRUMENTS | 14 |
| 4.1.4 TEST PROCEDURES | 15 |
| 4.1.5 DEVIATION FROM TEST STANDARD | 15 |
| 4.1.6 TEST SETUP | 16 |
| 4.1.7 EUT OPERATING CONDITION | 16 |
| 4.1.8 TEST RESULTS | 17 |
| 4.2 CONDUCTED EMISSION MEASUREMENT | 51 |
| 4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT | 51 |
| 4.2.2 TEST INSTRUMENTS | 51 |
| 4.2.3 TEST PROCEDURES | 52 |
| 4.2.4 DEVIATION FROM TEST STANDARD | 52 |
| 4.2.5 TEST SETUP | 52 |
| 4.2.6 EUT OPERATING CONDITIONS | 52 |
| 4.2.7 TEST RESULTS | 53 |
| 4.3 PEAK TRANSMIT POWER MEASUREMENT | 87 |
| 4.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT | 87 |
| 4.3.2 TEST SETUP | 87 |
| 4.3.3 TEST INSTRUMENTS | 87 |
| 4.3.4 TEST PROCEDURE | 88 |
| 4.3.5 DEVIATION FROM TEST STANDARD | 88 |
| 4.3.6 EUT OPERATING CONDITIONS | 88 |
| 4.3.7 TEST RESULTS | 89 |
| 4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT | 91 |
| 4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT | 91 |
| 4.4.2 TEST SETUP | 91 |
| 4.4.3 TEST INSTRUMENTS | 91 |
| 4.4.4 TEST PROCEDURES | 91 |
| 4.4.5 DEVIATION FROM TEST STANDARD | 91 |
| 4.4.6 EUT OPERATING CONDITIONS | 91 |
| 4.4.7 TEST RESULTS | 92 |
| 4.5 PEAK POWER EXCURSION MEASUREMENT | 93 |
| 4.5.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT | 93 |



A D T

| | | |
|-------|--|-----|
| 4.5.2 | TEST SETUP | 93 |
| 4.5.3 | TEST INSTRUMENTS..... | 93 |
| 4.5.4 | TEST PROCEDURE..... | 93 |
| 4.5.5 | DEVIATION FROM TEST STANDARD | 93 |
| 4.5.6 | EUT OPERATING CONDITIONS | 93 |
| 4.5.7 | TEST RESULTS | 94 |
| 4.6 | FREQUENCY STABILITY..... | 97 |
| 4.6.1 | LIMITS OF FREQUENCY STABILITY MEASUREMENT | 97 |
| 4.6.2 | TEST SETUP..... | 97 |
| 4.6.3 | TEST INSTRUMENTS..... | 97 |
| 4.6.4 | TEST PROCEDURE..... | 98 |
| 4.6.5 | DEVIATION FROM TEST STANDARD | 98 |
| 4.6.6 | EUT OPERATING CONDITION..... | 98 |
| 4.6.7 | TEST RESULTS | 99 |
| 5. | PHOTOGRAPHS OF THE TEST CONFIGURATION..... | 100 |
| 6. | INFORMATION ON THE TESTING LABORATORIES | 101 |
| 7. | APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB..... | 102 |



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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|-----------------|--|---------------|
| RF120305C07A | Original release | Jun. 13, 2012 |
| RF120305C07A R1 | Adding test results for radiated emission below 1GHz and AC power conducted emission | Jul. 19, 2012 |



1. CERTIFICATION

PRODUCT: IEEE 802.11a/n Wireless PCIe Module

MODEL: DIR-826LMO1

BRAND: D-Link

APPLICANT: D-Link Corporation

TESTED: May 26 ~ Jul. 19, 2012

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 15, Subpart E (Section 15.407)

ANSI C63.10-2009

The above equipment (model: DIR-826LMO1) 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 : Andrea Hsia , **DATE** : Jul. 19, 2012
Andrea Hsia / Specialist

APPROVED BY : Gary Chang , **DATE** : Jul. 19, 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 E (SECTION 15.407) | | | |
|---|-----------------------------|--------|---|
| STANDARD SECTION | TEST TYPE | RESULT | REMARK |
| 15.407(b)(6) | AC Power Conducted Emission | PASS | Meet the requirement of limit. Minimum passing margin is -5.38dB at 0.25547MHz. |
| 15.407(b/1/2/3) (b)(6) | Spurious Emissions | PASS | Meet the requirement of limit. Minimum passing margin is -1.1dB at 5350.00, 5470.00 & 7400.00MHz. |
| 15.407(a/1/2) | Peak Transmit Power | PASS | Meet the requirement of limit. |
| 15.407(a)(6) | Peak Power Excursion | PASS | Meet the requirement of limit. |
| 15.407(a/1/2) | Peak Power Spectral Density | PASS | Meet the requirement of limit. |
| 15.407(g) | Frequency Stability | PASS | Meet the requirement of limit. |
| 15.203 | Antenna Requirement | PASS | Antenna connector is UFL not a standard connector. |

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 | 9kHz~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 | IEEE 802.11a/n Wireless PCIe Module |
| MODEL NO. | DIR-826LMO1 |
| POWER SUPPLY | 3.3Vdc |
| MODULATION TYPE | 64QAM, 16QAM, QPSK, BPSK |
| MODULATION TECHNOLOGY | OFDM |
| TRANSFER RATE | 802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps |
| OPERATING FREQUENCY | 5260 ~ 5320MHz & 5500 ~ 5700MHz |
| NUMBER OF CHANNEL | 5260 ~ 5320MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 5500 ~ 5700MHz: 8 for 802.11a, 802.11n (20MHz) 3 for 802.11n (40MHz) |
| OUTPUT POWER | 229.4mW for 5260 ~ 5320MHz 240.0mW for 5500 ~ 5700MHz |
| ANTENNA TYPE | PCBantenna with 0dBi gain |
| ANTENNA CONNECTOR | UFL |
| DATA CABLE | NA |
| I/O PORTS | Refer to user's manual |
| ACCESSORY DEVICES | NA |

NOTE:

1. This report is prepared for FCC class II permissive change. The difference compared with the original report is adding frequency band from 5.26 to 5.32GHz and 5.50 to 5.70GHz by software.
2. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

| MODULATION MODE | TX FUNCTION |
|-----------------|-------------|
| 802.11a | 1TX |
| 802.11n (20MHz) | 2TX |
| 802.11n (40MHz) | 2TX |

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 DESCRIPTION OF TEST MODES

FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n (20MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 52 | 5260 MHz | 60 | 5300 MHz |
| 56 | 5280 MHz | 64 | 5320 MHz |

2 channels are provided for 802.11n (40MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 54 | 5270 MHz | 62 | 5310 MHz |

FOR 5500 ~ 5700MHz

8 channels are provided for 802.11a, 802.11n (20MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 100 | 5500 MHz | 116 | 5580 MHz |
| 104 | 5520 MHz | 132 | 5660 MHz |
| 108 | 5540 MHz | 136 | 5680 MHz |
| 112 | 5560 MHz | 140 | 5700 MHz |

3 channels are provided for 802.11n (40MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 102 | 5510 MHz | 134 | 5670 MHz |
| 110 | 5550 MHz | | |

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

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

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

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.

| MODE | FREQ. BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|-----------------|------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| 802.11a | 5260-5320 | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6.0 |
| 802.11n (20MHz) | | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 7.2 |
| 802.11n (40MHz) | | 54 to 62 | 54, 62 | OFDM | BPSK | 15.0 |
| 802.11a | 5500-5700 | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 6.0 |
| 802.11n (20MHz) | | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 7.2 |
| 802.11n (40MHz) | | 102 to 134 | 102, 110, 134 | OFDM | BPSK | 15.0 |

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.

| MODE | FREQ. BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|-----------------|------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| 802.11a | 5260-5320 | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6.0 |
| 802.11n (20MHz) | | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 7.2 |
| 802.11n (40MHz) | | 54 to 62 | 54, 62 | OFDM | BPSK | 15.0 |
| 802.11a | 5500-5700 | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 6.0 |
| 802.11n (20MHz) | | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 7.2 |
| 802.11n (40MHz) | | 102 to 134 | 102, 110, 134 | OFDM | BPSK | 15.0 |

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.

| MODE | FREQ. BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|-----------------|------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| 802.11a | 5260-5320 | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6.0 |
| 802.11n (20MHz) | | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 7.2 |
| 802.11n (40MHz) | | 54 to 62 | 54, 62 | OFDM | BPSK | 15.0 |
| 802.11a | 5500-5700 | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 6.0 |
| 802.11n (20MHz) | | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 7.2 |
| 802.11n (40MHz) | | 102 to 134 | 102, 110, 134 | OFDM | BPSK | 15.0 |

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.

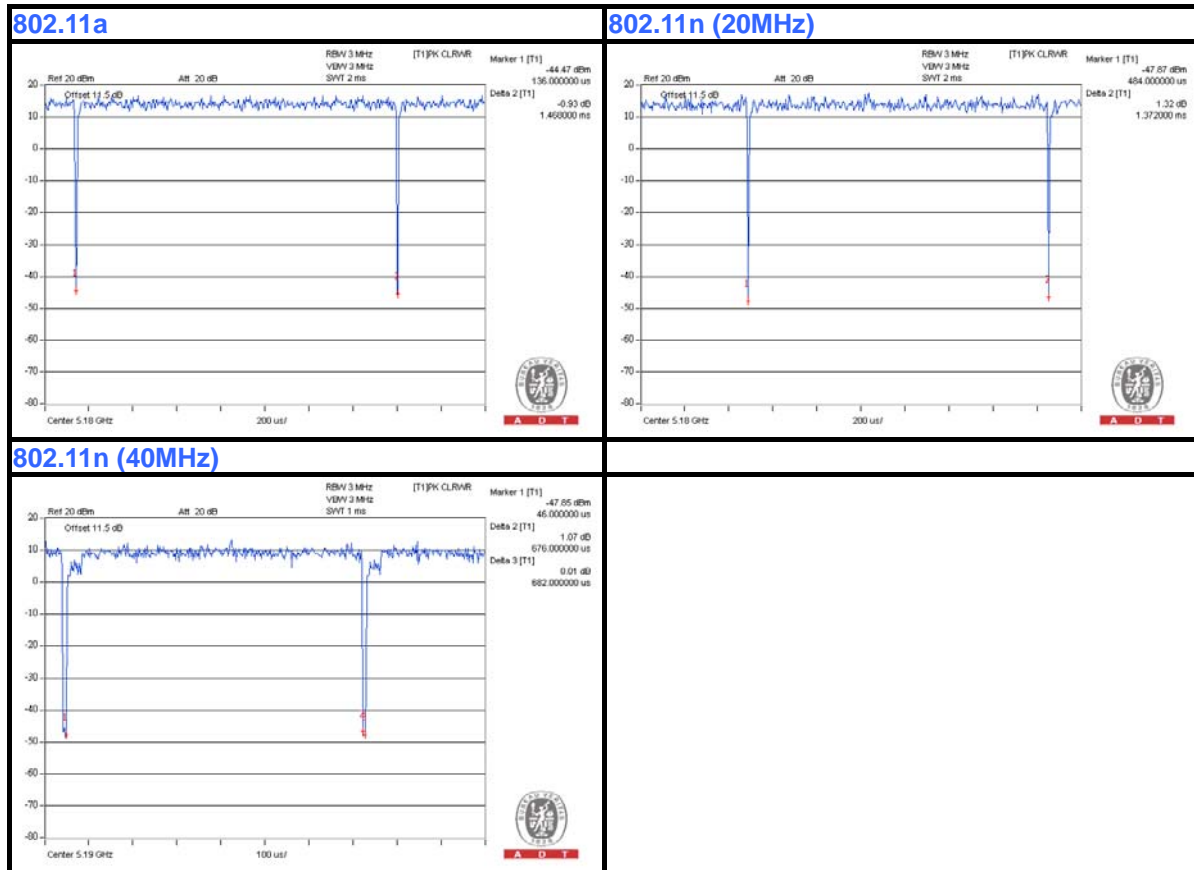
| MODE | FREQ. BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|-----------------|------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| 802.11a | 5260-5320 | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6.0 |
| 802.11n (20MHz) | | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 7.2 |
| 802.11n (40MHz) | | 54 to 62 | 54, 62 | OFDM | BPSK | 15.0 |
| 802.11a | 5500-5700 | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 6.0 |
| 802.11n (20MHz) | | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 7.2 |
| 802.11n (40MHz) | | 102 to 134 | 102, 110, 134 | OFDM | BPSK | 15.0 |

TEST CONDITION:

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER (SYSTEM) | TESTED BY |
|---------------|--------------------------|----------------------|--------------------|
| RE≥1G | 25deg. C, 65%RH | 120Vac, 60Hz | Haru Yang, Sun Lin |
| RE<1G | 22deg. C, 73%RH | 120Vac, 60Hz | Sun Lin |
| PLC | 25deg. C, 65%RH | 120Vac, 60Hz | Aska Huang |
| APCM | 25deg. C, 68%RH | 120Vac, 60Hz | Brad Wu |

3.3 DUTY CYCLE OF TEST SIGNAL

Duty cycle of test signal is > 98 %, duty factor is not required.



3.4 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.

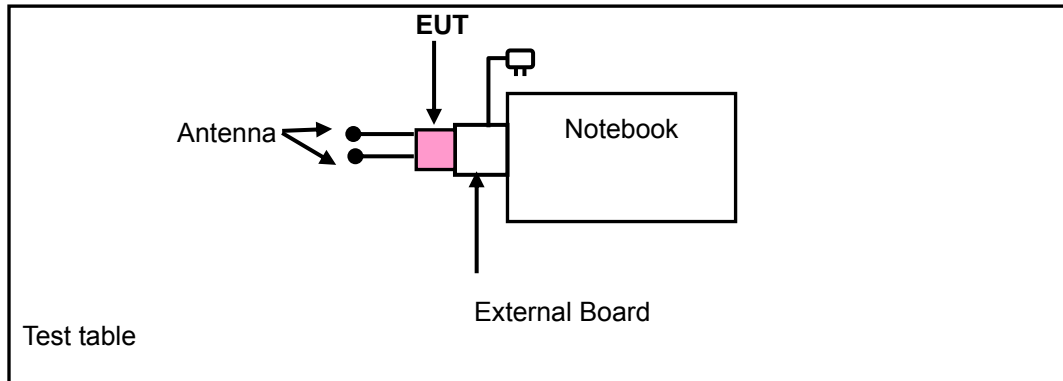
| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|----------------|---------|------------|------------|------------------|
| 1 | NOTEBOOK | DELL | E5420 | 1HC2XM1 | FCC DoC Approved |
| 2 | EXTERNAL BOARD | NA | NA | NA | NA |
| 3 | ADAPTER | FAIRWAY | WN10A-050U | NA | NA |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1 | NA |
| 2 | NA |
| 3 | 1.8m non-shielded cable without core |

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 2 & 3 were supplied from client.

3.4.1 CONFIGURATION OF SYSTEM UNDER TEST



3.5 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 E (15.407)

789033 D01 General UNII Test Procedures v01r01

ANSI C63.10-2009

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

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

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:

| 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 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

| EIRP LIMIT (dBm) | EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m) |
|------------------|--|
| PK | PK |
| -27 | 68.3 |

NOTE: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$



4.1.3 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|------------------------------|----------------------|---------------------|-------------------------|
| Test Receiver ROHDE & SCHWARZ | ESIB7 | 100212 | Aug. 02, 2011 | Aug. 01, 2012 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSP40 | 100040 | Aug. 04, 2011 | Aug. 03, 2012 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-472 | Dec. 20, 2011 | Dec. 19, 2012 |
| HORN Antenna SCHWARZBECK | BBHA 9120 D | 9120D-563 | Sep. 06, 2011 | Sep. 05, 2012 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | 148 | Jul. 20, 2011 | Jul. 19, 2012 |
| Loop Antenna | HFH2-Z2 | 100070 | Jan. 31, 2012 | Jan. 30, 2014 |
| Preamplifier Agilent | 8449B | 3008A01911 | Oct. 29, 2011 | Oct. 28, 2012 |
| Preamplifier Agilent | 8447D | 2944A10638 | Oct. 29, 2011 | Oct. 28, 2012 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 295013/4 283403/4 | Aug. 19, 2011 | Aug. 18, 2012 |
| RF signal cable Worken | 8D-FB | Cable-HYCH9-01 | Aug. 13, 2011 | Aug. 12, 2012 |
| Software | ADT_Radiated_ V7.6.15.9.2 | NA | NA | NA |
| Antenna Tower EMCO | 2070/2080 | 512.835.4684 | NA | NA |
| Turn Table EMCO | 2087-2.03 | NA | NA | NA |
| Antenna Tower & Turn Table Controller EMCO | 2090 | NA | NA | NA |
| 26GHz ~ 40GHz Amplifier | EM26400 | 815221 | Oct. 29, 2011 | Oct. 28, 2012 |
| High Speed Peak Power Meter | ML2495A | 0824011 | Aug. 04, 2011 | Aug. 03, 2012 |
| Power Sensor | MA2411B | 0738171 | Aug. 04, 2011 | Aug. 03, 2012 |

- 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 Chamber 9.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 460141.
 5. The IC Site Registration No. is IC 7450F-4.

4.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter 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. The antenna is a broadband antenna, and its height 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 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

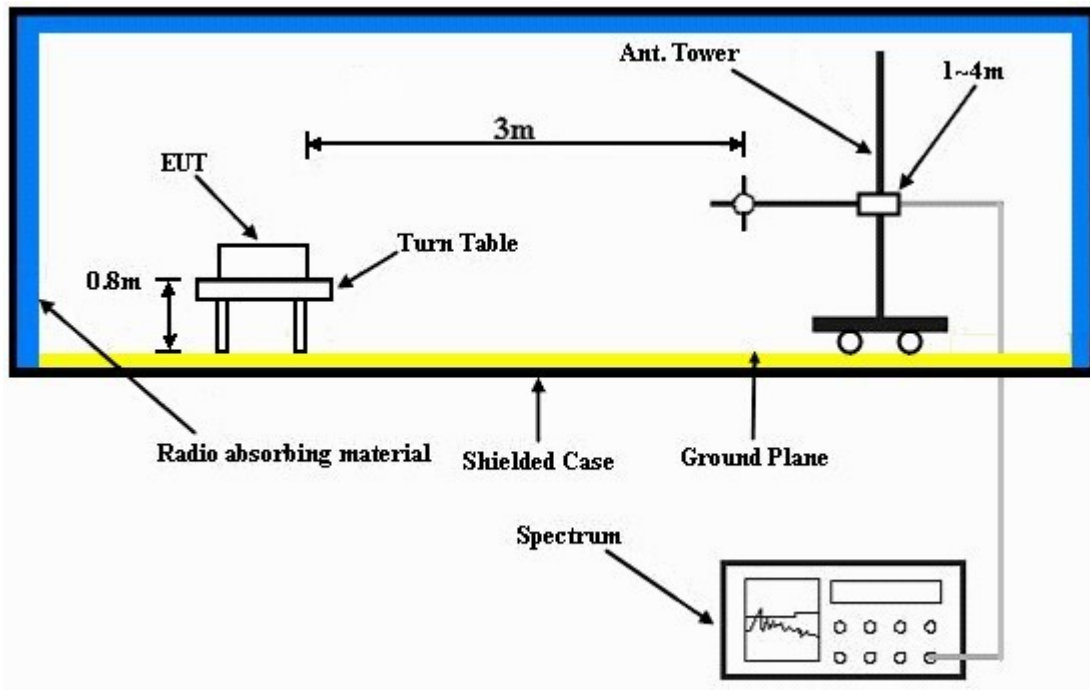
NOTE:

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

4.1.5 DEVIATION FROM TEST STANDARD

No deviation.

4.1.6 TEST SETUP



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

4.1.7 EUT OPERATING CONDITION

- a. Plugged the EUT into notebook via external board and placed them on the testing table.
- b. The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the system in full functions.

4.1.8 TEST RESULTS

ABOVE 1GHz DATA : 802.11a

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 52 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Haru Yang |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 58.7 PK | 74.0 | -15.3 | 1.44 H | 244 | 20.90 | 37.80 |
| 2 | 5150.00 | 45.5 AV | 54.0 | -8.5 | 1.44 H | 244 | 7.70 | 37.80 |
| 3 | #5208.00 | 65.1 PK | 68.3 | -3.2 | 1.78 H | 255 | 27.20 | 37.90 |
| 4 | *5260.00 | 113.9 PK | | | 1.44 H | 244 | 75.90 | 38.00 |
| 5 | *5260.00 | 102.5 AV | | | 1.44 H | 244 | 64.50 | 38.00 |
| 6 | #5312.00 | 64.3 PK | 68.3 | -4.0 | 1.43 H | 252 | 26.30 | 38.00 |
| 7 | #7013.00 | 59.3 PK | 68.3 | -9.0 | 1.63 H | 100 | 16.60 | 42.70 |
| 8 | #10520.00 | 60.7 PK | 68.3 | -7.6 | 1.00 H | 273 | 11.10 | 49.60 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 58.7 PK | 74.0 | -15.3 | 1.04 V | 117 | 20.90 | 37.80 |
| 2 | 5150.00 | 45.0 AV | 54.0 | -9.0 | 1.04 V | 117 | 7.20 | 37.80 |
| 3 | #5208.00 | 61.1 PK | 68.3 | -7.2 | 1.25 V | 99 | 23.20 | 37.90 |
| 4 | *5260.00 | 110.4 PK | | | 1.04 V | 117 | 72.40 | 38.00 |
| 5 | *5260.00 | 99.0 AV | | | 1.04 V | 117 | 61.00 | 38.00 |
| 6 | #5312.00 | 61.5 PK | 68.3 | -6.8 | 1.58 V | 11 | 23.50 | 38.00 |
| 7 | #7013.00 | 56.3 PK | 68.3 | -12.0 | 1.10 V | 299 | 13.60 | 42.70 |
| 8 | #10520.00 | 59.1 PK | 68.3 | -9.2 | 1.00 V | 277 | 9.50 | 49.60 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.
6. “#“: The radiated frequency is out the restricted band.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 60 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Haru Yang |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5247.00 | 64.2 PK | 68.3 | -4.1 | 1.76 H | 263 | 26.20 | 38.00 |
| 2 | *5300.00 | 113.4 PK | | | 1.73 H | 253 | 75.40 | 38.00 |
| 3 | *5300.00 | 102.2 AV | | | 1.73 H | 253 | 64.20 | 38.00 |
| 4 | 5350.00 | 57.9 PK | 74.0 | -16.1 | 1.73 H | 253 | 19.80 | 38.10 |
| 5 | 5350.00 | 45.5 AV | 54.0 | -8.5 | 1.73 H | 253 | 7.40 | 38.10 |
| 6 | 5352.00 | 63.2 PK | 74.0 | -10.8 | 1.42 H | 265 | 25.10 | 38.10 |
| 7 | 5352.00 | 52.0 AV | 54.0 | -2.0 | 1.42 H | 265 | 13.90 | 38.10 |
| 8 | #7066.00 | 56.7 PK | 68.3 | -11.6 | 1.63 H | 101 | 13.90 | 42.80 |
| 9 | 10600.00 | 61.1 PK | 74.0 | -12.9 | 1.06 H | 273 | 11.50 | 49.60 |
| 10 | 10600.00 | 48.4 AV | 54.0 | -5.6 | 1.06 H | 273 | -1.20 | 49.60 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5247.00 | 62.2 PK | 68.3 | -6.1 | 1.04 V | 117 | 24.20 | 38.00 |
| 2 | *5300.00 | 109.4 PK | | | 1.16 V | 117 | 71.40 | 38.00 |
| 3 | *5300.00 | 98.1 AV | | | 1.16 V | 117 | 60.10 | 38.00 |
| 4 | 5350.00 | 56.3 PK | 74.0 | -17.7 | 1.16 V | 117 | 18.20 | 38.10 |
| 5 | 5350.00 | 44.4 AV | 54.0 | -9.6 | 1.16 V | 117 | 6.30 | 38.10 |
| 6 | 5352.00 | 61.7 PK | 74.0 | -12.3 | 1.14 V | 119 | 23.60 | 38.10 |
| 7 | 5352.00 | 49.9 AV | 54.0 | -4.1 | 1.14 V | 119 | 11.80 | 38.10 |
| 8 | #7066.00 | 54.0 PK | 68.3 | -14.3 | 1.09 V | 299 | 11.20 | 42.80 |
| 9 | 10600.00 | 59.5 PK | 74.0 | -14.5 | 1.00 V | 268 | 9.90 | 49.60 |
| 10 | 10600.00 | 45.9 AV | 54.0 | -8.1 | 1.00 V | 268 | -3.70 | 49.60 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. "#": The radiated frequency is out the restricted band.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 64 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Haru Yang |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5267.20 | 65.1 PK | 68.3 | -3.2 | 1.73 H | 254 | 27.10 | 38.00 |
| 2 | *5320.00 | 113.9 PK | | | 1.71 H | 253 | 75.80 | 38.10 |
| 3 | *5320.00 | 102.9 AV | | | 1.71 H | 253 | 64.80 | 38.10 |
| 4 | 5350.00 | 68.0 PK | 74.0 | -6.0 | 1.71 H | 253 | 29.90 | 38.10 |
| 5 | 5350.00 | 51.1 AV | 54.0 | -2.9 | 1.71 H | 253 | 13.00 | 38.10 |
| 6 | 5372.20 | 65.4 PK | 74.0 | -8.6 | 1.42 H | 249 | 27.30 | 38.10 |
| 7 | 5372.20 | 50.9 AV | 54.0 | -3.1 | 1.42 H | 249 | 12.80 | 38.10 |
| 8 | #7093.00 | 57.3 PK | 68.3 | -11.0 | 1.61 H | 100 | 14.40 | 42.90 |
| 9 | 10640.00 | 63.9 PK | 74.0 | -10.1 | 1.07 H | 279 | 14.30 | 49.60 |
| 10 | 10640.00 | 50.5 AV | 54.0 | -3.5 | 1.07 H | 279 | 0.90 | 49.60 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5267.20 | 62.5 PK | 68.3 | -5.8 | 1.03 V | 117 | 24.50 | 38.00 |
| 2 | *5320.00 | 110.2 PK | | | 1.03 V | 115 | 72.10 | 38.10 |
| 3 | *5320.00 | 98.9 AV | | | 1.03 V | 115 | 60.80 | 38.10 |
| 4 | 5350.00 | 63.3 PK | 74.0 | -10.7 | 1.03 V | 115 | 25.20 | 38.10 |
| 5 | 5350.00 | 48.5 AV | 54.0 | -5.5 | 1.03 V | 115 | 10.40 | 38.10 |
| 6 | 5372.00 | 61.2 PK | 74.0 | -12.8 | 1.03 V | 118 | 23.10 | 38.10 |
| 7 | 5372.00 | 50.1 AV | 54.0 | -3.9 | 1.03 V | 118 | 12.00 | 38.10 |
| 8 | #7093.00 | 55.3 PK | 68.3 | -13.0 | 1.09 V | 300 | 12.40 | 42.90 |
| 9 | 10640.00 | 60.0 PK | 74.0 | -14.0 | 1.00 V | 241 | 10.40 | 49.60 |
| 10 | 10640.00 | 46.9 AV | 54.0 | -7.1 | 1.00 V | 241 | -2.70 | 49.60 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. "#": The radiated frequency is out the restricted band.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 100 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5447.00 | 64.6 PK | 74.0 | -9.4 | 1.38 H | 251 | 26.40 | 38.20 |
| 2 | 5447.00 | 52.0 AV | 54.0 | -2.0 | 1.38 H | 251 | 13.80 | 38.20 |
| 3 | 5460.00 | 66.2 PK | 74.0 | -7.8 | 1.40 H | 153 | 27.90 | 38.30 |
| 4 | 5460.00 | 50.3 AV | 54.0 | -3.7 | 1.40 H | 153 | 12.00 | 38.30 |
| 5 | #5470.00 | 65.1 PK | 68.3 | -3.2 | 1.39 H | 251 | 26.80 | 38.30 |
| 6 | *5500.00 | 113.1 PK | | | 1.62 H | 254 | 74.70 | 38.40 |
| 7 | *5500.00 | 102.1 AV | | | 1.62 H | 254 | 63.70 | 38.40 |
| 8 | 7333.00 | 55.8 PK | 74.0 | -18.2 | 1.58 H | 291 | 12.20 | 43.60 |
| 9 | 7333.00 | 49.1 AV | 54.0 | -4.9 | 1.58 H | 291 | 5.50 | 43.60 |
| 10 | 11000.00 | 63.9 PK | 74.0 | -10.1 | 1.43 H | 287 | 13.60 | 50.30 |
| 11 | 11000.00 | 50.7 AV | 54.0 | -3.3 | 1.43 H | 287 | 0.40 | 50.30 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5447.00 | 58.5 PK | 74.0 | -15.5 | 2.33 V | 12 | 20.30 | 38.20 |
| 2 | 5447.00 | 48.1 AV | 54.0 | -5.9 | 2.33 V | 12 | 9.90 | 38.20 |
| 3 | 5460.00 | 57.1 PK | 74.0 | -16.9 | 2.33 V | 12 | 18.80 | 38.30 |
| 4 | 5460.00 | 46.5 AV | 54.0 | -7.5 | 2.33 V | 12 | 8.20 | 38.30 |
| 5 | #5470.00 | 60.7 PK | 68.3 | -7.6 | 2.33 V | 12 | 22.40 | 38.30 |
| 6 | *5500.00 | 109.7 PK | | | 2.33 V | 10 | 71.30 | 38.40 |
| 7 | *5500.00 | 98.7 AV | | | 2.33 V | 10 | 60.30 | 38.40 |
| 8 | 7333.00 | 54.0 PK | 74.0 | -20.0 | 1.07 V | 25 | 10.40 | 43.60 |
| 9 | 7333.00 | 43.5 AV | 54.0 | -10.5 | 1.07 V | 25 | -0.10 | 43.60 |
| 10 | 11000.00 | 60.7 PK | 74.0 | -13.3 | 1.27 V | 177 | 10.40 | 50.30 |
| 11 | 11000.00 | 47.6 AV | 54.0 | -6.4 | 1.27 V | 177 | -2.70 | 50.30 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.
6. “#”:The radiated frequency is out the restricted band.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 116 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5417.00 | 62.0 PK | 74.0 | -12.0 | 1.38 H | 241 | 23.80 | 38.20 |
| 2 | 5417.00 | 49.6 AV | 54.0 | -4.4 | 1.38 H | 241 | 11.40 | 38.20 |
| 3 | #5527.00 | 65.1 PK | 68.3 | -3.2 | 1.37 H | 252 | 26.70 | 38.40 |
| 4 | *5580.00 | 113.7 PK | | | 1.34 H | 252 | 75.30 | 38.40 |
| 5 | *5580.00 | 103.2 AV | | | 1.34 H | 252 | 64.80 | 38.40 |
| 6 | #5632.00 | 63.5 PK | 68.3 | -4.8 | 1.37 H | 252 | 25.00 | 38.50 |
| 7 | 7440.00 | 54.0 PK | 74.0 | -20.0 | 1.55 H | 288 | 10.10 | 43.90 |
| 8 | 7440.00 | 46.2 AV | 54.0 | -7.8 | 1.55 H | 288 | 2.30 | 43.90 |
| 9 | 11160.00 | 66.4 PK | 74.0 | -7.6 | 1.42 H | 264 | 16.30 | 50.10 |
| 10 | 11160.00 | 51.8 AV | 54.0 | -2.2 | 1.42 H | 264 | 1.70 | 50.10 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5417.00 | 53.1 PK | 74.0 | -20.9 | 1.99 V | 14 | 14.90 | 38.20 |
| 2 | 5417.00 | 39.1 AV | 54.0 | -14.9 | 1.99 V | 14 | 0.90 | 38.20 |
| 3 | #5527.00 | 51.6 PK | 68.3 | -16.7 | 1.95 V | 12 | 13.20 | 38.40 |
| 4 | *5580.00 | 109.9 PK | | | 1.94 V | 14 | 71.50 | 38.40 |
| 5 | *5580.00 | 98.9 AV | | | 1.94 V | 14 | 60.50 | 38.40 |
| 6 | #5632.00 | 60.1 PK | 68.3 | -8.2 | 1.90 V | 10 | 21.60 | 38.50 |
| 7 | 7440.00 | 54.4 PK | 74.0 | -19.6 | 1.05 V | 37 | 10.50 | 43.90 |
| 8 | 7440.00 | 43.8 AV | 54.0 | -10.2 | 1.05 V | 37 | -0.10 | 43.90 |
| 9 | 11160.00 | 60.5 PK | 74.0 | -13.5 | 1.21 V | 198 | 10.40 | 50.10 |
| 10 | 11160.00 | 47.3 AV | 54.0 | -6.7 | 1.21 V | 198 | -2.80 | 50.10 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. "#": The radiated frequency is out the restricted band.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 140 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5457.00 | 61.8 PK | 74.0 | -12.2 | 1.38 H | 256 | 23.50 | 38.30 |
| 2 | 5457.00 | 49.2 AV | 54.0 | -4.8 | 1.38 H | 256 | 10.90 | 38.30 |
| 3 | #5648.00 | 64.1 PK | 68.3 | -4.2 | 1.52 H | 258 | 25.50 | 38.60 |
| 4 | *5700.00 | 113.1 PK | | | 1.60 H | 259 | 74.40 | 38.70 |
| 5 | *5700.00 | 102.2 AV | | | 1.60 H | 259 | 63.50 | 38.70 |
| 6 | #5725.00 | 65.0 PK | 68.3 | -3.3 | 1.59 H | 259 | 26.20 | 38.80 |
| 7 | 7600.00 | 55.9 PK | 74.0 | -18.1 | 1.57 H | 298 | 11.70 | 44.20 |
| 8 | 7600.00 | 49.3 AV | 54.0 | -4.7 | 1.57 H | 298 | 5.10 | 44.20 |
| 9 | 11400.00 | 62.7 PK | 74.0 | -11.3 | 1.41 H | 271 | 12.60 | 50.10 |
| 10 | 11400.00 | 49.3 AV | 54.0 | -4.7 | 1.41 H | 271 | -0.80 | 50.10 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5457.00 | 51.7 PK | 74.0 | -22.3 | 2.01 V | 18 | 13.40 | 38.30 |
| 2 | 5457.00 | 37.9 AV | 54.0 | -16.1 | 2.01 V | 18 | -0.40 | 38.30 |
| 3 | #5648.00 | 47.9 PK | 68.3 | -20.4 | 1.78 V | 12 | 9.30 | 38.60 |
| 4 | *5700.00 | 109.6 PK | | | 1.98 V | 12 | 70.90 | 38.70 |
| 5 | *5700.00 | 98.5 AV | | | 1.98 V | 12 | 59.80 | 38.70 |
| 6 | #5725.00 | 58.7 PK | 68.3 | -9.6 | 2.02 V | 15 | 19.90 | 38.80 |
| 7 | 7600.00 | 54.2 PK | 74.0 | -19.8 | 1.05 V | 33 | 10.00 | 44.20 |
| 8 | 7600.00 | 43.7 AV | 54.0 | -10.3 | 1.05 V | 33 | -0.50 | 44.20 |
| 9 | 11400.00 | 60.1 PK | 74.0 | -13.9 | 1.32 V | 198 | 10.00 | 50.10 |
| 10 | 11400.00 | 46.8 AV | 54.0 | -7.2 | 1.32 V | 198 | -3.30 | 50.10 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.
6. “#”:The radiated frequency is out the restricted band.

802.11n (20MHz)

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 52 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5208.00 | 61.3 PK | 68.3 | -7.0 | 1.72 H | 288 | 23.40 | 37.90 |
| 2 | *5260.00 | 111.5 PK | | | 1.43 H | 243 | 73.50 | 38.00 |
| 3 | *5260.00 | 100.9 AV | | | 1.43 H | 243 | 62.90 | 38.00 |
| 4 | #5312.00 | 63.6 PK | 68.3 | -4.7 | 1.48 H | 237 | 25.60 | 38.00 |
| 5 | #7013.00 | 60.0 PK | 68.3 | -8.3 | 1.63 H | 289 | 17.30 | 42.70 |
| 6 | #10520.00 | 60.7 PK | 68.3 | -7.6 | 1.48 H | 283 | 11.10 | 49.60 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5208.00 | 63.4 PK | 68.3 | -4.9 | 1.00 V | 43 | 25.50 | 37.90 |
| 2 | *5260.00 | 113.3 PK | | | 1.00 V | 42 | 75.30 | 38.00 |
| 3 | *5260.00 | 102.8 AV | | | 1.00 V | 42 | 64.80 | 38.00 |
| 4 | #5312.00 | 64.2 PK | 68.3 | -4.1 | 1.00 V | 43 | 26.20 | 38.00 |
| 5 | #7013.00 | 64.3 PK | 68.3 | -4.0 | 1.84 V | 31 | 21.60 | 42.70 |
| 6 | #10520.00 | 61.2 PK | 68.3 | -7.1 | 1.53 V | 247 | 11.60 | 49.60 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.
6. “#”:The radiated frequency is out the restricted band.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 60 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5247.00 | 62.1 PK | 68.3 | -6.2 | 1.78 H | 298 | 24.10 | 38.00 |
| 2 | *5300.00 | 111.3 PK | | | 1.41 H | 252 | 73.30 | 38.00 |
| 3 | *5300.00 | 100.7 AV | | | 1.41 H | 252 | 62.70 | 38.00 |
| 4 | 5351.00 | 61.3 PK | 74.0 | -12.7 | 1.43 H | 252 | 23.20 | 38.10 |
| 5 | 5351.00 | 51.4 AV | 54.0 | -2.6 | 1.43 H | 252 | 13.30 | 38.10 |
| 6 | #7066.00 | 58.8 PK | 68.3 | -9.5 | 1.63 H | 288 | 16.00 | 42.80 |
| 7 | 10600.00 | 60.2 PK | 74.0 | -13.8 | 1.35 H | 296 | 10.60 | 49.60 |
| 8 | 10600.00 | 50.1 AV | 54.0 | -3.9 | 1.35 H | 296 | 0.50 | 49.60 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5247.00 | 63.4 PK | 68.3 | -4.9 | 1.00 V | 43 | 25.40 | 38.00 |
| 2 | *5300.00 | 113.0 PK | | | 1.00 V | 48 | 75.00 | 38.00 |
| 3 | *5300.00 | 102.3 AV | | | 1.00 V | 48 | 64.30 | 38.00 |
| 4 | 5351.00 | 61.9 PK | 74.0 | -12.1 | 1.00 V | 43 | 23.80 | 38.10 |
| 5 | 5351.00 | 51.7 AV | 54.0 | -2.3 | 1.00 V | 43 | 13.60 | 38.10 |
| 6 | #7066.00 | 63.2 PK | 68.3 | -5.1 | 1.07 V | 312 | 20.40 | 42.80 |
| 7 | 10600.00 | 60.9 PK | 74.0 | -13.1 | 1.48 V | 243 | 11.30 | 49.60 |
| 8 | 10600.00 | 50.8 AV | 54.0 | -3.2 | 1.48 V | 243 | 1.20 | 49.60 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.
6. “#”:The radiated frequency is out the restricted band.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 64 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5268.00 | 63.0 PK | 68.3 | -5.3 | 1.77 H | 302 | 25.00 | 38.00 |
| 2 | *5320.00 | 111.8 PK | | | 1.41 H | 252 | 73.70 | 38.10 |
| 3 | *5320.00 | 101.1 AV | | | 1.41 H | 252 | 63.00 | 38.10 |
| 4 | 5350.00 | 58.1 PK | 74.0 | -15.9 | 1.43 H | 258 | 20.00 | 38.10 |
| 5 | 5350.00 | 43.1 AV | 54.0 | -10.9 | 1.43 H | 258 | 5.00 | 38.10 |
| 6 | 5371.00 | 64.2 PK | 74.0 | -9.8 | 1.47 H | 253 | 26.10 | 38.10 |
| 7 | 5371.00 | 50.5 AV | 54.0 | -3.5 | 1.47 H | 253 | 12.40 | 38.10 |
| 8 | #7093.00 | 60.7 PK | 68.3 | -7.6 | 1.69 H | 299 | 17.80 | 42.90 |
| 9 | 10640.00 | 60.9 PK | 74.0 | -13.1 | 1.43 H | 277 | 11.30 | 49.60 |
| 10 | 10640.00 | 48.6 AV | 54.0 | -5.4 | 1.43 H | 277 | -1.00 | 49.60 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5268.00 | 64.3 PK | 68.3 | -4.0 | 1.00 V | 44 | 26.30 | 38.00 |
| 2 | *5320.00 | 113.7 PK | | | 1.00 V | 47 | 75.60 | 38.10 |
| 3 | *5320.00 | 103.1 AV | | | 1.00 V | 47 | 65.00 | 38.10 |
| 4 | 5350.00 | 64.2 PK | 74.0 | -9.8 | 1.00 V | 44 | 26.10 | 38.10 |
| 5 | 5350.00 | 49.5 AV | 54.0 | -4.5 | 1.00 V | 44 | 11.40 | 38.10 |
| 6 | 5371.00 | 62.7 PK | 74.0 | -11.3 | 1.00 V | 44 | 24.60 | 38.10 |
| 7 | 5371.00 | 49.9 AV | 54.0 | -4.1 | 1.00 V | 44 | 11.80 | 38.10 |
| 8 | #7093.00 | 64.3 PK | 68.3 | -4.0 | 1.79 V | 38 | 21.40 | 42.90 |
| 9 | 10640.00 | 61.7 PK | 74.0 | -12.3 | 1.57 V | 225 | 12.10 | 49.60 |
| 10 | 10640.00 | 49.1 AV | 54.0 | -4.9 | 1.57 V | 225 | -0.50 | 49.60 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.
6. “#”:The radiated frequency is out the restricted band.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 100 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5447.00 | 59.7 PK | 74.0 | -14.3 | 1.65 H | 269 | 21.50 | 38.20 |
| 2 | 5447.00 | 48.9 AV | 54.0 | -5.1 | 1.65 H | 269 | 10.70 | 38.20 |
| 3 | 5460.00 | 52.1 PK | 74.0 | -21.9 | 1.36 H | 241 | 13.80 | 38.30 |
| 4 | 5460.00 | 37.3 AV | 54.0 | -16.7 | 1.36 H | 241 | -1.00 | 38.30 |
| 5 | #5470.00 | 57.1 PK | 68.3 | -11.2 | 1.36 H | 241 | 18.80 | 38.30 |
| 6 | *5500.00 | 111.2 PK | | | 1.36 H | 241 | 72.80 | 38.40 |
| 7 | *5500.00 | 100.9 AV | | | 1.36 H | 241 | 62.50 | 38.40 |
| 8 | #5552.00 | 59.7 PK | 68.3 | -8.6 | 1.34 H | 282 | 21.30 | 38.40 |
| 9 | 7333.00 | 56.2 PK | 74.0 | -17.8 | 1.61 H | 225 | 12.60 | 43.60 |
| 10 | 7333.00 | 49.1 AV | 54.0 | -4.9 | 1.61 H | 225 | 5.50 | 43.60 |
| 11 | 11000.00 | 60.3 PK | 74.0 | -13.7 | 1.52 H | 269 | 10.00 | 50.30 |
| 12 | 11000.00 | 47.8 AV | 54.0 | -6.2 | 1.52 H | 269 | -2.50 | 50.30 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5447.00 | 62.8 PK | 74.0 | -11.2 | 1.00 V | 16 | 24.60 | 38.20 |
| 2 | 5447.00 | 51.0 AV | 54.0 | -3.0 | 1.00 V | 16 | 12.80 | 38.20 |
| 3 | 5460.00 | 59.7 PK | 74.0 | -14.3 | 1.00 V | 63 | 21.40 | 38.30 |
| 4 | 5460.00 | 45.0 AV | 54.0 | -9.0 | 1.00 V | 63 | 6.70 | 38.30 |
| 5 | #5470.00 | 62.7 PK | 68.3 | -5.6 | 1.00 V | 63 | 24.40 | 38.30 |
| 6 | *5500.00 | 113.6 PK | | | 1.00 V | 120 | 75.20 | 38.40 |
| 7 | *5500.00 | 102.4 AV | | | 1.00 V | 120 | 64.00 | 38.40 |
| 8 | #5552.00 | 59.4 PK | 68.3 | -8.9 | 1.09 V | 15 | 21.00 | 38.40 |
| 9 | 7333.00 | 68.6 PK | 74.0 | -5.4 | 1.85 V | 212 | 25.00 | 43.60 |
| 10 | 7333.00 | 51.0 AV | 54.0 | -3.0 | 1.85 V | 212 | 7.40 | 43.60 |
| 11 | 11000.00 | 62.3 PK | 74.0 | -11.7 | 1.45 V | 228 | 12.00 | 50.30 |
| 12 | 11000.00 | 49.3 AV | 54.0 | -4.7 | 1.45 V | 228 | -1.00 | 50.30 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.
6. “#”: The radiated frequency is out the restricted band.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 116 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5372.00 | 57.8 PK | 74.0 | -16.2 | 1.64 H | 277 | 19.70 | 38.10 |
| 2 | 5372.00 | 47.6 AV | 54.0 | -6.4 | 1.64 H | 277 | 9.50 | 38.10 |
| 3 | #5527.00 | 60.1 PK | 68.3 | -8.2 | 1.65 H | 278 | 21.70 | 38.40 |
| 4 | *5580.00 | 111.1 PK | | | 1.47 H | 289 | 72.70 | 38.40 |
| 5 | *5580.00 | 100.2 AV | | | 1.47 H | 289 | 61.80 | 38.40 |
| 6 | #5631.00 | 58.0 PK | 68.3 | -10.3 | 1.41 H | 297 | 19.50 | 38.50 |
| 7 | 7440.00 | 55.7 PK | 74.0 | -18.3 | 1.69 H | 247 | 11.80 | 43.90 |
| 8 | 7440.00 | 50.8 AV | 54.0 | -3.2 | 1.69 H | 247 | 6.90 | 43.90 |
| 9 | 11160.00 | 60.8 PK | 74.0 | -13.2 | 1.48 H | 271 | 10.70 | 50.10 |
| 10 | 11160.00 | 47.3 AV | 54.0 | -6.7 | 1.48 H | 271 | -2.80 | 50.10 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5372.00 | 60.0 PK | 74.0 | -14.0 | 1.00 V | 120 | 21.90 | 38.10 |
| 2 | 5372.00 | 48.7 AV | 54.0 | -5.3 | 1.00 V | 120 | 10.60 | 38.10 |
| 3 | #5527.00 | 64.3 PK | 68.3 | -4.0 | 1.06 V | 47 | 25.90 | 38.40 |
| 4 | *5580.00 | 113.0 PK | | | 1.07 V | 20 | 74.60 | 38.40 |
| 5 | *5580.00 | 102.4 AV | | | 1.07 V | 20 | 64.00 | 38.40 |
| 6 | #5631.00 | 63.8 PK | 68.3 | -4.5 | 1.06 V | 12 | 25.30 | 38.50 |
| 7 | 7440.00 | 62.5 PK | 74.0 | -11.5 | 1.43 V | 56 | 18.60 | 43.90 |
| 8 | 7440.00 | 52.0 AV | 54.0 | -2.0 | 1.43 V | 56 | 8.10 | 43.90 |
| 9 | 11160.00 | 60.3 PK | 74.0 | -13.7 | 1.43 V | 231 | 10.20 | 50.10 |
| 10 | 11160.00 | 50.2 AV | 54.0 | -3.8 | 1.43 V | 231 | 0.10 | 50.10 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.
6. “#”:The radiated frequency is out the restricted band.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 140 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5647.00 | 58.3 PK | 68.3 | -10.0 | 1.52 H | 247 | 19.70 | 38.60 |
| 2 | *5700.00 | 111.2 PK | | | 1.34 H | 293 | 72.50 | 38.70 |
| 3 | *5700.00 | 100.2 AV | | | 1.34 H | 293 | 61.50 | 38.70 |
| 4 | #5725.00 | 64.9 PK | 68.3 | -3.4 | 1.34 H | 281 | 26.10 | 38.80 |
| 5 | 7600.00 | 55.7 PK | 74.0 | -18.3 | 1.48 H | 269 | 11.50 | 44.20 |
| 6 | 7600.00 | 50.3 AV | 54.0 | -3.7 | 1.48 H | 269 | 6.10 | 44.20 |
| 7 | 11400.00 | 60.3 PK | 74.0 | -13.7 | 1.43 H | 257 | 10.20 | 50.10 |
| 8 | 11400.00 | 46.7 AV | 54.0 | -7.3 | 1.43 H | 257 | -3.40 | 50.10 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5647.00 | 62.9 PK | 68.3 | -5.4 | 1.02 V | 47 | 24.30 | 38.60 |
| 2 | *5700.00 | 113.6 PK | | | 1.02 V | 43 | 74.90 | 38.70 |
| 3 | *5700.00 | 102.5 AV | | | 1.02 V | 43 | 63.80 | 38.70 |
| 4 | #5725.00 | 66.2 PK | 68.3 | -2.1 | 1.01 V | 47 | 27.40 | 38.80 |
| 5 | 7600.00 | 60.4 PK | 74.0 | -13.6 | 1.52 V | 57 | 16.20 | 44.20 |
| 6 | 7600.00 | 51.5 AV | 54.0 | -2.5 | 1.52 V | 57 | 7.30 | 44.20 |
| 7 | 11400.00 | 60.2 PK | 74.0 | -13.8 | 1.08 V | 218 | 10.10 | 50.10 |
| 8 | 11400.00 | 49.2 AV | 54.0 | -4.8 | 1.08 V | 218 | -0.90 | 50.10 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.
6. “#”: The radiated frequency is out the restricted band.

802.11n (40MHz)

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 54 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5270.00 | 111.0 PK | | | 1.41 H | 242 | 73.00 | 38.00 |
| 2 | *5270.00 | 100.3 AV | | | 1.41 H | 242 | 62.30 | 38.00 |
| 3 | 5373.00 | 60.5 PK | 74.0 | -13.5 | 1.41 H | 230 | 22.40 | 38.10 |
| 4 | 5373.00 | 48.0 AV | 54.0 | -6.0 | 1.41 H | 230 | 9.90 | 38.10 |
| 5 | #7027.00 | 58.2 PK | 68.3 | -10.1 | 1.60 H | 261 | 15.50 | 42.70 |
| 6 | #10540.00 | 60.9 PK | 68.3 | -7.4 | 1.05 H | 149 | 11.30 | 49.60 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5270.00 | 112.5 PK | | | 1.02 V | 121 | 74.50 | 38.00 |
| 2 | *5270.00 | 102.0 AV | | | 1.02 V | 121 | 64.00 | 38.00 |
| 3 | 5373.00 | 62.0 PK | 74.0 | -12.0 | 1.00 V | 21 | 23.90 | 38.10 |
| 4 | 5373.00 | 49.4 AV | 54.0 | -4.6 | 1.00 V | 21 | 11.30 | 38.10 |
| 5 | #7027.00 | 60.0 PK | 68.3 | -8.3 | 1.66 V | 25 | 17.30 | 42.70 |
| 6 | #10540.00 | 61.7 PK | 68.3 | -6.6 | 1.41 V | 240 | 12.10 | 49.60 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.
6. “#”:The radiated frequency is out the restricted band.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 62 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5310.00 | 109.8 PK | | | 1.40 H | 245 | 71.80 | 38.00 |
| 2 | *5310.00 | 99.0 AV | | | 1.40 H | 245 | 61.00 | 38.00 |
| 3 | 5350.00 | 65.4 PK | 74.0 | -8.6 | 1.40 H | 245 | 27.30 | 38.10 |
| 4 | 5350.00 | 49.6 AV | 54.0 | -4.4 | 1.40 H | 245 | 11.50 | 38.10 |
| 5 | #7080.00 | 57.6 PK | 68.3 | -10.7 | 1.56 H | 238 | 14.70 | 42.90 |
| 6 | 10620.00 | 60.4 PK | 74.0 | -13.6 | 1.08 H | 113 | 10.80 | 49.60 |
| 7 | 10620.00 | 48.0 AV | 54.0 | -6.0 | 1.08 H | 113 | -1.60 | 49.60 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5310.00 | 111.2 PK | | | 1.00 V | 44 | 73.20 | 38.00 |
| 2 | *5310.00 | 100.6 AV | | | 1.00 V | 44 | 62.60 | 38.00 |
| 3 | 5350.00 | 68.2 PK | 74.0 | -5.8 | 1.00 V | 32 | 30.10 | 38.10 |
| 4 | 5350.00 | 52.9 AV | 54.0 | -1.1 | 1.00 V | 32 | 14.80 | 38.10 |
| 5 | #7080.00 | 60.3 PK | 68.3 | -8.0 | 1.50 V | 199 | 17.40 | 42.90 |
| 6 | 10620.00 | 61.2 PK | 74.0 | -12.8 | 1.05 V | 116 | 11.60 | 49.60 |
| 7 | 10620.00 | 48.6 AV | 54.0 | -5.4 | 1.05 V | 116 | -1.00 | 49.60 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.
6. “#”: The radiated frequency is out the restricted band.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 102 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 59.3 PK | 74.0 | -14.7 | 1.38 H | 241 | 21.00 | 38.30 |
| 2 | 5460.00 | 44.8 AV | 54.0 | -9.2 | 1.38 H | 241 | 6.50 | 38.30 |
| 3 | #5470.00 | 65.0 PK | 68.3 | -3.3 | 1.38 H | 241 | 26.70 | 38.30 |
| 4 | *5510.00 | 106.6 PK | | | 1.38 H | 241 | 68.20 | 38.40 |
| 5 | *5510.00 | 95.9 AV | | | 1.38 H | 241 | 57.50 | 38.40 |
| 6 | 7347.00 | 58.4 PK | 74.0 | -15.6 | 1.51 H | 243 | 14.80 | 43.60 |
| 7 | 7347.00 | 49.6 AV | 54.0 | -4.4 | 1.51 H | 243 | 6.00 | 43.60 |
| 8 | 11020.00 | 61.1 PK | 74.0 | -12.9 | 1.23 H | 206 | 10.90 | 50.20 |
| 9 | 11020.00 | 48.0 AV | 54.0 | -6.0 | 1.23 H | 206 | -2.20 | 50.20 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 61.6 PK | 74.0 | -12.4 | 1.33 V | 206 | 23.30 | 38.30 |
| 2 | 5460.00 | 47.1 AV | 54.0 | -6.9 | 1.33 V | 206 | 8.80 | 38.30 |
| 3 | #5470.00 | 67.2 PK | 68.3 | -1.1 | 1.33 V | 206 | 28.90 | 38.30 |
| 4 | *5510.00 | 108.4 PK | | | 1.09 V | 19 | 70.00 | 38.40 |
| 5 | *5510.00 | 96.8 AV | | | 1.09 V | 19 | 58.40 | 38.40 |
| 6 | 7347.00 | 60.8 PK | 74.0 | -13.2 | 1.63 V | 269 | 17.20 | 43.60 |
| 7 | 7347.00 | 52.0 AV | 54.0 | -2.0 | 1.63 V | 269 | 8.40 | 43.60 |
| 8 | 11020.00 | 62.5 PK | 74.0 | -11.5 | 1.34 V | 215 | 12.30 | 50.20 |
| 9 | 11020.00 | 49.4 AV | 54.0 | -4.6 | 1.34 V | 215 | -0.80 | 50.20 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. "#": The radiated frequency is out the restricted band.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 110 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5550.00 | 108.0 PK | | | 1.35 H | 238 | 69.60 | 38.40 |
| 2 | *5550.00 | 97.2 AV | | | 1.35 H | 238 | 58.80 | 38.40 |
| 3 | 7400.00 | 58.6 PK | 74.0 | -15.4 | 1.48 H | 236 | 14.70 | 43.90 |
| 4 | 7400.00 | 49.9 AV | 54.0 | -4.1 | 1.48 H | 236 | 6.00 | 43.90 |
| 5 | 11100.00 | 61.4 PK | 74.0 | -12.6 | 1.21 H | 199 | 11.40 | 50.00 |
| 6 | 11100.00 | 48.2 AV | 54.0 | -5.8 | 1.21 H | 199 | -1.80 | 50.00 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5550.00 | 109.8 PK | | | 1.08 V | 21 | 71.40 | 38.40 |
| 2 | *5550.00 | 98.4 AV | | | 1.08 V | 21 | 60.00 | 38.40 |
| 3 | 7400.00 | 57.7 PK | 74.0 | -16.3 | 1.54 V | 61 | 13.80 | 43.90 |
| 4 | 7400.00 | 52.9 AV | 54.0 | -1.1 | 1.54 V | 61 | 9.00 | 43.90 |
| 5 | 11100.00 | 63.1 PK | 74.0 | -10.9 | 1.29 V | 194 | 13.10 | 50.00 |
| 6 | 11100.00 | 50.0 AV | 54.0 | -4.0 | 1.29 V | 194 | 0.00 | 50.00 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL | Channel 134 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5670.00 | 109.8 PK | | | 1.32 H | 235 | 71.20 | 38.60 |
| 2 | *5670.00 | 99.0 AV | | | 1.32 H | 235 | 60.40 | 38.60 |
| 3 | #5725.00 | 58.2 PK | 68.3 | -10.1 | 1.32 H | 235 | 19.40 | 38.80 |
| 4 | 7560.00 | 55.6 PK | 74.0 | -18.4 | 1.41 H | 239 | 11.50 | 44.10 |
| 5 | 7560.00 | 49.3 AV | 54.0 | -4.7 | 1.41 H | 239 | 5.20 | 44.10 |
| 6 | 11340.00 | 61.2 PK | 74.0 | -12.8 | 1.05 H | 109 | 11.00 | 50.20 |
| 7 | 11340.00 | 47.9 AV | 54.0 | -6.1 | 1.05 H | 109 | -2.30 | 50.20 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5670.00 | 111.6 PK | | | 1.02 V | 301 | 73.00 | 38.60 |
| 2 | *5670.00 | 100.5 AV | | | 1.02 V | 301 | 61.90 | 38.60 |
| 3 | #5725.00 | 60.5 PK | 68.3 | -7.8 | 1.63 V | 280 | 21.70 | 38.80 |
| 4 | 7560.00 | 58.0 PK | 74.0 | -16.0 | 1.65 V | 317 | 13.90 | 44.10 |
| 5 | 7560.00 | 51.6 AV | 54.0 | -2.4 | 1.65 V | 317 | 7.50 | 44.10 |
| 6 | 11340.00 | 63.4 PK | 74.0 | -10.6 | 1.21 V | 205 | 13.20 | 50.20 |
| 7 | 11340.00 | 50.1 AV | 54.0 | -3.9 | 1.21 V | 205 | -0.10 | 50.20 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “ * “: Fundamental frequency.
6. “#”: The radiated frequency is out the restricted band.



A D T

BELOW 1GHz WORST-CASE DATA : 802.11a

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 52 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.36 | 35.8 QP | 40.0 | -4.2 | 1.25 H | 199 | 26.90 | 8.90 |
| 2 | 99.84 | 30.8 QP | 43.5 | -12.7 | 2.00 H | 60 | 21.40 | 9.40 |
| 3 | 154.16 | 30.2 QP | 43.5 | -13.3 | 1.50 H | 275 | 16.20 | 14.00 |
| 4 | 297.72 | 30.2 QP | 46.0 | -15.8 | 1.00 H | 38 | 15.40 | 14.80 |
| 5 | 431.58 | 28.3 QP | 46.0 | -17.7 | 1.50 H | 175 | 10.00 | 18.30 |
| 6 | 666.32 | 33.7 QP | 46.0 | -12.3 | 1.00 H | 67 | 11.00 | 22.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 99.84 | 32.5 QP | 43.5 | -11.0 | 1.25 V | 6 | 23.10 | 9.40 |
| 2 | 189.08 | 30.5 QP | 43.5 | -13.0 | 1.25 V | 12 | 18.50 | 12.00 |
| 3 | 216.24 | 29.7 QP | 46.0 | -16.3 | 1.00 V | 90 | 17.90 | 11.80 |
| 4 | 336.52 | 30.2 QP | 46.0 | -15.8 | 1.50 V | 66 | 14.40 | 15.80 |
| 5 | 431.58 | 27.5 QP | 46.0 | -18.5 | 1.25 V | 141 | 9.20 | 18.30 |
| 6 | 664.38 | 26.8 QP | 46.0 | -19.2 | 2.00 V | 112 | 4.10 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 60 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.30 | 36.0 QP | 40.0 | -4.0 | 1.50 H | 195 | 27.10 | 8.90 |
| 2 | 99.84 | 30.8 QP | 43.5 | -12.7 | 2.00 H | 111 | 21.40 | 9.40 |
| 3 | 156.10 | 33.0 QP | 43.5 | -10.5 | 2.00 H | 283 | 19.00 | 14.00 |
| 4 | 299.66 | 30.1 QP | 46.0 | -15.9 | 1.00 H | 47 | 15.20 | 14.90 |
| 5 | 431.58 | 30.8 QP | 46.0 | -15.2 | 2.00 H | 166 | 12.50 | 18.30 |
| 6 | 666.32 | 32.5 QP | 46.0 | -13.5 | 1.00 H | 73 | 9.80 | 22.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 99.84 | 32.4 QP | 43.5 | -11.1 | 1.25 V | 6 | 23.00 | 9.40 |
| 2 | 189.08 | 30.2 QP | 43.5 | -13.3 | 1.25 V | 26 | 18.20 | 12.00 |
| 3 | 214.30 | 29.4 QP | 43.5 | -14.1 | 1.00 V | 93 | 17.70 | 11.70 |
| 4 | 336.52 | 28.6 QP | 46.0 | -17.4 | 1.50 V | 57 | 12.80 | 15.80 |
| 5 | 431.58 | 28.3 QP | 46.0 | -17.7 | 1.25 V | 56 | 10.00 | 18.30 |
| 6 | 666.32 | 27.2 QP | 46.0 | -18.8 | 2.00 V | 112 | 4.50 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 64 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.18 | 35.3 QP | 40.0 | -4.7 | 1.50 H | 200 | 26.40 | 8.90 |
| 2 | 99.84 | 31.9 QP | 43.5 | -11.6 | 2.00 H | 73 | 22.50 | 9.40 |
| 3 | 156.10 | 29.6 QP | 43.5 | -13.9 | 1.00 H | 279 | 15.60 | 14.00 |
| 4 | 297.72 | 29.1 QP | 46.0 | -16.9 | 1.00 H | 172 | 14.30 | 14.80 |
| 5 | 419.94 | 30.0 QP | 46.0 | -16.0 | 2.00 H | 78 | 12.00 | 18.00 |
| 6 | 664.38 | 33.7 QP | 46.0 | -12.3 | 1.00 H | 71 | 11.00 | 22.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 99.84 | 32.8 QP | 43.5 | -10.7 | 1.25 V | 17 | 23.40 | 9.40 |
| 2 | 189.08 | 31.3 QP | 43.5 | -12.2 | 1.00 V | 4 | 19.30 | 12.00 |
| 3 | 216.24 | 29.5 QP | 46.0 | -16.5 | 1.25 V | 85 | 17.70 | 11.80 |
| 4 | 336.52 | 28.9 QP | 46.0 | -17.1 | 1.25 V | 58 | 13.10 | 15.80 |
| 5 | 431.58 | 28.7 QP | 46.0 | -17.3 | 1.25 V | 17 | 10.40 | 18.30 |
| 6 | 664.38 | 26.6 QP | 46.0 | -19.4 | 1.25 V | 17 | 3.90 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 100 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 85.36 | 35.1 QP | 40.0 | -4.9 | 1.50 H | 194 | 26.10 | 9.00 |
| 2 | 99.84 | 32.0 QP | 43.5 | -11.5 | 2.00 H | 75 | 22.60 | 9.40 |
| 3 | 142.52 | 29.7 QP | 43.5 | -13.8 | 2.00 H | 281 | 16.00 | 13.70 |
| 4 | 297.72 | 30.5 QP | 46.0 | -15.5 | 1.00 H | 186 | 15.70 | 14.80 |
| 5 | 427.70 | 30.0 QP | 46.0 | -16.0 | 2.00 H | 76 | 11.80 | 18.20 |
| 6 | 664.38 | 33.1 QP | 46.0 | -12.9 | 1.00 H | 64 | 10.40 | 22.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 99.84 | 32.4 QP | 43.5 | -11.1 | 1.00 V | 16 | 23.00 | 9.40 |
| 2 | 189.08 | 30.2 QP | 43.5 | -13.3 | 1.00 V | 147 | 18.20 | 12.00 |
| 3 | 216.24 | 28.9 QP | 46.0 | -17.1 | 1.00 V | 81 | 17.10 | 11.80 |
| 4 | 336.52 | 28.5 QP | 46.0 | -17.5 | 1.50 V | 47 | 12.70 | 15.80 |
| 5 | 431.58 | 28.4 QP | 46.0 | -17.6 | 1.00 V | 43 | 10.10 | 18.30 |
| 6 | 666.32 | 28.0 QP | 46.0 | -18.0 | 2.00 V | 125 | 5.30 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 116 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.42 | 35.8 QP | 40.0 | -4.2 | 1.00 H | 196 | 26.90 | 8.90 |
| 2 | 99.84 | 31.1 QP | 43.5 | -12.4 | 2.00 H | 73 | 21.70 | 9.40 |
| 3 | 156.10 | 29.5 QP | 43.5 | -14.0 | 1.25 H | 284 | 15.50 | 14.00 |
| 4 | 299.66 | 28.7 QP | 46.0 | -17.3 | 1.00 H | 48 | 13.80 | 14.90 |
| 5 | 431.58 | 31.4 QP | 46.0 | -14.6 | 2.00 H | 179 | 13.10 | 18.30 |
| 6 | 666.32 | 32.8 QP | 46.0 | -13.2 | 1.00 H | 67 | 10.10 | 22.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 99.84 | 32.2 QP | 43.5 | -11.3 | 1.25 V | 17 | 22.80 | 9.40 |
| 2 | 189.08 | 28.8 QP | 43.5 | -14.7 | 1.25 V | 17 | 16.80 | 12.00 |
| 3 | 216.24 | 28.6 QP | 46.0 | -17.4 | 1.00 V | 90 | 16.80 | 11.80 |
| 4 | 336.52 | 28.7 QP | 46.0 | -17.3 | 1.50 V | 63 | 12.90 | 15.80 |
| 5 | 431.58 | 28.2 QP | 46.0 | -17.8 | 1.00 V | 135 | 9.90 | 18.30 |
| 6 | 666.32 | 27.1 QP | 46.0 | -18.9 | 2.00 V | 129 | 4.40 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 140 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 85.30 | 36.1 QP | 40.0 | -3.9 | 1.25 H | 17 | 27.00 | 9.10 |
| 2 | 92.08 | 31.2 QP | 43.5 | -12.3 | 2.00 H | 66 | 22.70 | 8.50 |
| 3 | 142.52 | 30.9 QP | 43.5 | -12.6 | 1.25 H | 286 | 17.20 | 13.70 |
| 4 | 297.72 | 29.2 QP | 46.0 | -16.8 | 1.00 H | 175 | 14.40 | 14.80 |
| 5 | 431.58 | 30.1 QP | 46.0 | -15.9 | 1.50 H | 176 | 11.80 | 18.30 |
| 6 | 666.32 | 32.6 QP | 46.0 | -13.4 | 1.00 H | 72 | 9.90 | 22.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 99.84 | 31.4 QP | 43.5 | -12.1 | 1.25 V | 34 | 22.00 | 9.40 |
| 2 | 189.08 | 29.8 QP | 43.5 | -13.7 | 1.00 V | 339 | 17.80 | 12.00 |
| 3 | 208.48 | 30.2 QP | 43.5 | -13.3 | 1.50 V | 354 | 18.70 | 11.50 |
| 4 | 336.52 | 28.7 QP | 46.0 | -17.3 | 1.25 V | 65 | 12.90 | 15.80 |
| 5 | 431.58 | 27.9 QP | 46.0 | -18.1 | 1.00 V | 45 | 9.60 | 18.30 |
| 6 | 664.38 | 27.4 QP | 46.0 | -18.6 | 2.00 V | 93 | 4.70 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



A D T

802.11n (20MHz)

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 52 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.30 | 35.7 QP | 40.0 | -4.3 | 1.50 H | 191 | 26.80 | 8.90 |
| 2 | 99.84 | 29.5 QP | 43.5 | -14.0 | 2.00 H | 90 | 20.10 | 9.40 |
| 3 | 142.52 | 30.5 QP | 43.5 | -13.0 | 1.25 H | 288 | 16.80 | 13.70 |
| 4 | 297.72 | 29.0 QP | 46.0 | -17.0 | 1.00 H | 187 | 14.20 | 14.80 |
| 5 | 433.52 | 31.0 QP | 46.0 | -15.0 | 2.00 H | 74 | 12.70 | 18.30 |
| 6 | 664.38 | 33.1 QP | 46.0 | -12.9 | 1.00 H | 67 | 10.40 | 22.70 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 99.84 | 30.9 QP | 43.5 | -12.6 | 1.00 V | 8 | 21.50 | 9.40 |
| 2 | 189.08 | 30.4 QP | 43.5 | -13.1 | 1.00 V | 20 | 18.40 | 12.00 |
| 3 | 206.54 | 31.0 QP | 43.5 | -12.5 | 1.00 V | 356 | 19.50 | 11.50 |
| 4 | 336.52 | 29.2 QP | 46.0 | -16.8 | 1.50 V | 60 | 13.40 | 15.80 |
| 5 | 431.58 | 28.8 QP | 46.0 | -17.2 | 1.25 V | 48 | 10.50 | 18.30 |
| 6 | 664.38 | 28.4 QP | 46.0 | -17.6 | 2.00 V | 123 | 5.70 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 60 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.18 | 35.6 QP | 40.0 | -4.4 | 1.00 H | 175 | 26.70 | 8.90 |
| 2 | 95.96 | 30.9 QP | 43.5 | -12.6 | 2.00 H | 277 | 21.90 | 9.00 |
| 3 | 142.52 | 30.6 QP | 43.5 | -12.9 | 1.25 H | 276 | 16.90 | 13.70 |
| 4 | 297.72 | 28.5 QP | 46.0 | -17.5 | 1.00 H | 174 | 13.70 | 14.80 |
| 5 | 431.58 | 30.4 QP | 46.0 | -15.6 | 2.00 H | 81 | 12.10 | 18.30 |
| 6 | 664.38 | 32.5 QP | 46.0 | -13.5 | 1.00 H | 68 | 9.80 | 22.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 99.84 | 30.1 QP | 43.5 | -13.4 | 1.00 V | 19 | 20.70 | 9.40 |
| 2 | 189.08 | 28.6 QP | 43.5 | -14.9 | 1.25 V | 13 | 16.60 | 12.00 |
| 3 | 214.30 | 30.2 QP | 43.5 | -13.3 | 1.00 V | 98 | 18.50 | 11.70 |
| 4 | 336.52 | 29.1 QP | 46.0 | -16.9 | 1.25 V | 66 | 13.30 | 15.80 |
| 5 | 431.58 | 27.6 QP | 46.0 | -18.4 | 1.25 V | 32 | 9.30 | 18.30 |
| 6 | 666.32 | 28.8 QP | 46.0 | -17.2 | 1.50 V | 17 | 6.10 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 64 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.18 | 36.0 QP | 40.0 | -4.0 | 1.50 H | 204 | 27.10 | 8.90 |
| 2 | 99.84 | 28.8 QP | 43.5 | -14.7 | 2.00 H | 65 | 19.40 | 9.40 |
| 3 | 142.52 | 30.0 QP | 43.5 | -13.5 | 2.00 H | 287 | 16.30 | 13.70 |
| 4 | 299.66 | 28.8 QP | 46.0 | -17.2 | 1.00 H | 171 | 13.90 | 14.90 |
| 5 | 433.52 | 31.0 QP | 46.0 | -15.0 | 2.00 H | 85 | 12.70 | 18.30 |
| 6 | 666.32 | 33.1 QP | 46.0 | -12.9 | 1.00 H | 69 | 10.40 | 22.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 59.10 | 28.2 QP | 40.0 | -11.8 | 1.25 V | 173 | 14.70 | 13.50 |
| 2 | 202.66 | 31.2 QP | 43.5 | -12.3 | 1.50 V | 335 | 19.90 | 11.30 |
| 3 | 299.66 | 25.6 QP | 46.0 | -20.4 | 1.50 V | 70 | 10.70 | 14.90 |
| 4 | 336.52 | 28.3 QP | 46.0 | -17.7 | 1.25 V | 62 | 12.50 | 15.80 |
| 5 | 431.58 | 28.2 QP | 46.0 | -17.8 | 1.00 V | 71 | 9.90 | 18.30 |
| 6 | 664.38 | 28.9 QP | 46.0 | -17.1 | 2.00 V | 121 | 6.20 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 100 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.30 | 35.9 QP | 40.0 | -4.1 | 1.50 H | 286 | 27.00 | 8.90 |
| 2 | 142.52 | 29.7 QP | 43.5 | -13.8 | 1.25 H | 307 | 16.00 | 13.70 |
| 3 | 299.66 | 28.9 QP | 46.0 | -17.1 | 1.00 H | 34 | 14.00 | 14.90 |
| 4 | 431.58 | 30.2 QP | 46.0 | -15.8 | 2.00 H | 28 | 11.90 | 18.30 |
| 5 | 575.14 | 28.1 QP | 46.0 | -17.9 | 1.25 H | 342 | 6.30 | 21.80 |
| 6 | 664.38 | 32.8 QP | 46.0 | -13.2 | 1.00 H | 64 | 10.10 | 22.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 68.80 | 28.1 QP | 40.0 | -11.9 | 1.00 V | 93 | 15.60 | 12.50 |
| 2 | 99.84 | 31.2 QP | 43.5 | -12.3 | 1.25 V | 17 | 21.80 | 9.40 |
| 3 | 202.66 | 30.2 QP | 43.5 | -13.3 | 1.25 V | 17 | 18.90 | 11.30 |
| 4 | 336.52 | 28.3 QP | 46.0 | -17.7 | 1.25 V | 53 | 12.50 | 15.80 |
| 5 | 431.58 | 28.2 QP | 46.0 | -17.8 | 1.25 V | 33 | 9.90 | 18.30 |
| 6 | 664.38 | 27.1 QP | 46.0 | -18.9 | 1.00 V | 89 | 4.40 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 116 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.54 | 36.1 QP | 40.0 | -3.9 | 1.25 H | 204 | 27.20 | 8.90 |
| 2 | 99.84 | 28.9 QP | 43.5 | -14.6 | 1.50 H | 62 | 19.50 | 9.40 |
| 3 | 218.18 | 34.2 QP | 46.0 | -11.8 | 1.50 H | 168 | 22.30 | 11.90 |
| 4 | 299.66 | 28.2 QP | 46.0 | -17.8 | 1.00 H | 39 | 13.30 | 14.90 |
| 5 | 431.58 | 30.7 QP | 46.0 | -15.3 | 2.00 H | 28 | 12.40 | 18.30 |
| 6 | 666.32 | 33.6 QP | 46.0 | -12.4 | 1.00 H | 73 | 10.90 | 22.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 64.92 | 29.5 QP | 40.0 | -10.5 | 1.25 V | 136 | 16.60 | 12.90 |
| 2 | 99.84 | 30.9 QP | 43.5 | -12.6 | 1.25 V | 17 | 21.50 | 9.40 |
| 3 | 214.30 | 30.6 QP | 43.5 | -12.9 | 1.00 V | 101 | 18.90 | 11.70 |
| 4 | 336.52 | 28.5 QP | 46.0 | -17.5 | 1.50 V | 76 | 12.70 | 15.80 |
| 5 | 431.58 | 28.0 QP | 46.0 | -18.0 | 1.25 V | 34 | 9.70 | 18.30 |
| 6 | 666.32 | 27.1 QP | 46.0 | -18.9 | 2.00 V | 17 | 4.40 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 140 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.36 | 35.7 QP | 40.0 | -4.3 | 1.25 H | 190 | 26.80 | 8.90 |
| 2 | 99.84 | 30.6 QP | 43.5 | -12.9 | 2.00 H | 80 | 21.20 | 9.40 |
| 3 | 158.04 | 30.3 QP | 43.5 | -13.2 | 1.50 H | 258 | 16.30 | 14.00 |
| 4 | 297.72 | 28.4 QP | 46.0 | -17.6 | 1.00 H | 24 | 13.60 | 14.80 |
| 5 | 433.52 | 30.9 QP | 46.0 | -15.1 | 2.00 H | 78 | 12.60 | 18.30 |
| 6 | 664.38 | 33.9 QP | 46.0 | -12.1 | 1.00 H | 70 | 11.20 | 22.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 99.84 | 30.3 QP | 43.5 | -13.2 | 1.25 V | 17 | 20.90 | 9.40 |
| 2 | 204.60 | 29.7 QP | 43.5 | -13.8 | 1.50 V | 3 | 18.30 | 11.40 |
| 3 | 295.78 | 24.5 QP | 46.0 | -21.5 | 1.00 V | 348 | 9.80 | 14.70 |
| 4 | 336.52 | 28.8 QP | 46.0 | -17.2 | 1.25 V | 55 | 13.00 | 15.80 |
| 5 | 431.58 | 27.4 QP | 46.0 | -18.6 | 1.25 V | 27 | 9.10 | 18.30 |
| 6 | 664.38 | 28.0 QP | 46.0 | -18.0 | 2.00 V | 111 | 5.30 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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802.11n (40MHz)

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 54 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 73%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.26 | 36.3 QP | 40.0 | -3.7 | 2.00 H | 242 | 27.40 | 8.90 |
| 2 | 165.80 | 35.4 QP | 43.5 | -8.1 | 2.00 H | 3 | 21.70 | 13.70 |
| 3 | 220.12 | 33.8 QP | 46.0 | -12.2 | 1.25 H | 3 | 21.80 | 12.00 |
| 4 | 299.66 | 30.9 QP | 46.0 | -15.1 | 1.25 H | 3 | 16.00 | 14.90 |
| 5 | 431.58 | 32.1 QP | 46.0 | -13.9 | 2.00 H | 354 | 13.80 | 18.30 |
| 6 | 664.38 | 33.0 QP | 46.0 | -13.0 | 1.00 H | 246 | 10.30 | 22.70 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 51.34 | 30.6 QP | 40.0 | -9.4 | 1.50 V | 8 | 16.70 | 13.90 |
| 2 | 90.14 | 31.7 QP | 43.5 | -11.8 | 1.25 V | 177 | 23.40 | 8.30 |
| 3 | 216.24 | 28.2 QP | 46.0 | -17.8 | 1.00 V | 200 | 16.40 | 11.80 |
| 4 | 336.52 | 28.4 QP | 46.0 | -17.6 | 1.50 V | 242 | 12.60 | 15.80 |
| 5 | 365.62 | 27.5 QP | 46.0 | -18.5 | 1.25 V | 237 | 10.90 | 16.60 |
| 6 | 431.58 | 27.3 QP | 46.0 | -18.7 | 2.00 V | 299 | 9.00 | 18.30 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 62 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.30 | 36.0 QP | 40.0 | -4.0 | 1.50 H | 196 | 27.10 | 8.90 |
| 2 | 99.84 | 29.5 QP | 43.5 | -14.0 | 2.00 H | 85 | 20.10 | 9.40 |
| 3 | 142.52 | 29.0 QP | 43.5 | -14.5 | 2.00 H | 272 | 15.30 | 13.70 |
| 4 | 297.72 | 28.2 QP | 46.0 | -17.8 | 1.00 H | 169 | 13.40 | 14.80 |
| 5 | 431.58 | 30.3 QP | 46.0 | -15.7 | 2.00 H | 29 | 12.00 | 18.30 |
| 6 | 664.38 | 33.1 QP | 46.0 | -12.9 | 1.00 H | 65 | 10.40 | 22.70 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 99.84 | 29.8 QP | 43.5 | -13.7 | 1.50 V | 3 | 20.40 | 9.40 |
| 2 | 189.08 | 29.4 QP | 43.5 | -14.1 | 1.00 V | 9 | 17.40 | 12.00 |
| 3 | 210.42 | 29.4 QP | 43.5 | -14.1 | 1.00 V | 309 | 17.80 | 11.60 |
| 4 | 336.52 | 28.5 QP | 46.0 | -17.5 | 1.50 V | 69 | 12.70 | 15.80 |
| 5 | 431.58 | 28.0 QP | 46.0 | -18.0 | 1.00 V | 28 | 9.70 | 18.30 |
| 6 | 666.32 | 27.1 QP | 46.0 | -18.9 | 1.00 V | 89 | 4.40 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 102 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.36 | 36.2 QP | 40.0 | -3.8 | 1.00 H | 197 | 27.30 | 8.90 |
| 2 | 99.84 | 30.0 QP | 43.5 | -13.5 | 2.00 H | 80 | 20.60 | 9.40 |
| 3 | 142.52 | 29.6 QP | 43.5 | -13.9 | 2.00 H | 278 | 15.90 | 13.70 |
| 4 | 299.66 | 28.9 QP | 46.0 | -17.1 | 1.00 H | 201 | 14.00 | 14.90 |
| 5 | 431.58 | 30.2 QP | 46.0 | -15.8 | 2.00 H | 78 | 11.90 | 18.30 |
| 6 | 664.38 | 33.8 QP | 46.0 | -12.2 | 1.00 H | 70 | 11.10 | 22.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 66.86 | 28.2 QP | 40.0 | -11.8 | 1.00 V | 185 | 15.50 | 12.70 |
| 2 | 99.84 | 30.3 QP | 43.5 | -13.2 | 1.00 V | 25 | 20.90 | 9.40 |
| 3 | 189.08 | 29.4 QP | 43.5 | -14.1 | 1.00 V | 15 | 17.40 | 12.00 |
| 4 | 218.18 | 29.2 QP | 46.0 | -16.8 | 1.00 V | 71 | 17.30 | 11.90 |
| 5 | 336.52 | 28.3 QP | 46.0 | -17.7 | 1.50 V | 51 | 12.50 | 15.80 |
| 6 | 666.32 | 27.6 QP | 46.0 | -18.4 | 1.50 V | 22 | 4.90 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



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| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 110 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH | TESTED BY | Anderson Hong |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 86.77 | 35.9 QP | 40.0 | -4.1 | 1.50 H | 211 | 27.10 | 8.80 |
| 2 | 99.84 | 29.7 QP | 43.5 | -13.8 | 2.00 H | 78 | 20.30 | 9.40 |
| 3 | 142.52 | 29.2 QP | 43.5 | -14.3 | 2.00 H | 264 | 15.50 | 13.70 |
| 4 | 297.72 | 29.3 QP | 46.0 | -16.7 | 1.00 H | 178 | 14.50 | 14.80 |
| 5 | 431.58 | 30.5 QP | 46.0 | -15.5 | 2.00 H | 74 | 12.20 | 18.30 |
| 6 | 666.32 | 33.1 QP | 46.0 | -12.9 | 1.00 H | 68 | 10.40 | 22.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 62.98 | 30.5 QP | 40.0 | -9.5 | 1.00 V | 106 | 17.30 | 13.20 |
| 2 | 189.08 | 29.8 QP | 43.5 | -13.7 | 1.00 V | 16 | 17.80 | 12.00 |
| 3 | 208.48 | 29.6 QP | 43.5 | -13.9 | 1.00 V | 116 | 18.10 | 11.50 |
| 4 | 336.52 | 28.2 QP | 46.0 | -17.8 | 1.50 V | 68 | 12.40 | 15.80 |
| 5 | 431.58 | 27.6 QP | 46.0 | -18.4 | 1.00 V | 67 | 9.30 | 18.30 |
| 6 | 666.32 | 29.2 QP | 46.0 | -16.8 | 2.00 V | 115 | 6.50 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



A D T

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL | Channel 134 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 73%RH | TESTED BY | Sun Lin |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 88.20 | 37.2 QP | 43.5 | -6.3 | 2.00 H | 76 | 28.60 | 8.60 |
| 2 | 165.80 | 32.4 QP | 43.5 | -11.1 | 1.50 H | 334 | 18.70 | 13.70 |
| 3 | 218.18 | 31.4 QP | 46.0 | -14.6 | 1.25 H | 17 | 19.50 | 11.90 |
| 4 | 299.66 | 32.2 QP | 46.0 | -13.8 | 1.00 H | 234 | 17.30 | 14.90 |
| 5 | 414.12 | 30.9 QP | 46.0 | -15.1 | 2.00 H | 256 | 13.10 | 17.80 |
| 6 | 505.30 | 32.1 QP | 46.0 | -13.9 | 1.50 H | 345 | 11.90 | 20.20 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 53.28 | 28.9 QP | 40.0 | -11.1 | 2.00 V | 17 | 15.10 | 13.80 |
| 2 | 97.90 | 29.4 QP | 43.5 | -14.1 | 2.00 V | 159 | 20.20 | 9.20 |
| 3 | 165.80 | 26.8 QP | 43.5 | -16.7 | 2.25 V | 150 | 13.10 | 13.70 |
| 4 | 233.70 | 22.3 QP | 46.0 | -23.7 | 2.00 V | 270 | 9.90 | 12.40 |
| 5 | 431.58 | 27.8 QP | 46.0 | -18.2 | 2.00 V | 313 | 9.50 | 18.30 |
| 6 | 666.32 | 26.1 QP | 46.0 | -19.9 | 2.00 V | 188 | 3.40 | 22.70 |

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

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. 29, 2011 | Dec. 28, 2012 |
| LISN ROHDE & SCHWARZ (EUT) | ESH2-Z5 | 100100 | Dec. 30, 2011 | Dec. 29, 2012 |
| LISN ROHDE & SCHWARZ (Peripheral) | ESH3-Z5 | 100311 | Jul. 06, 2012 | Jul. 05, 2013 |
| 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

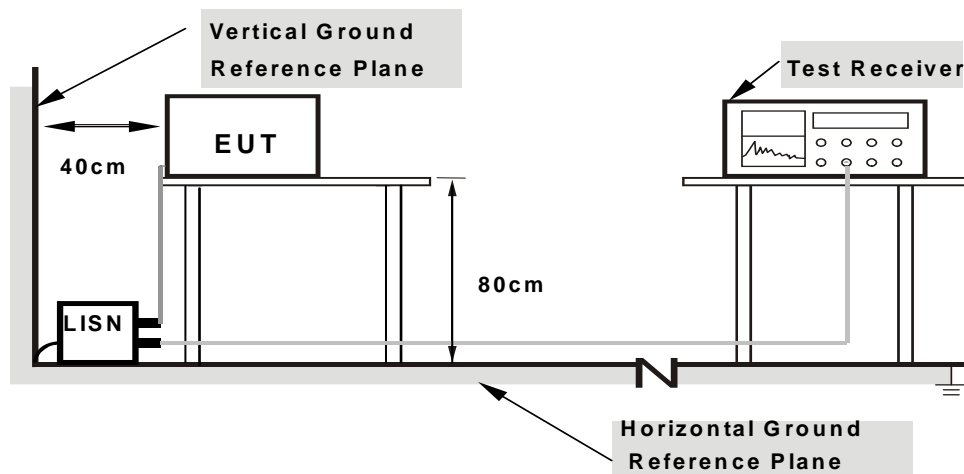
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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.

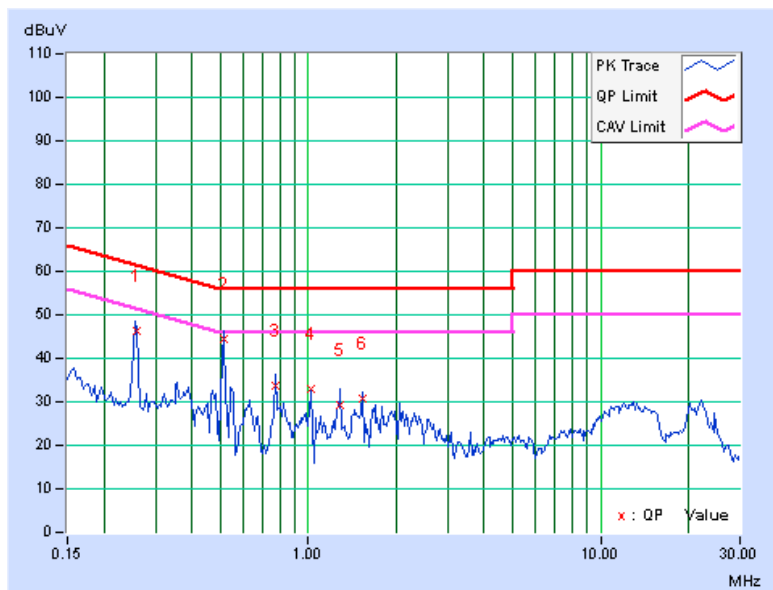
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA : 802.11a

| | | | |
|---------|------------|---------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 52 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|-------------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25938 | 0.18 | 46.03 | 45.78 | 46.21 | 45.96 | 61.45 | 51.45 | -15.24 | -5.49 |
| 2 | 0.51328 | 0.21 | 44.35 | 40.25 | 44.56 | 40.46 | 56.00 | 46.00 | -11.44 | -5.54 |
| 3 | 0.77109 | 0.22 | 33.62 | 31.28 | 33.84 | 31.50 | 56.00 | 46.00 | -22.16 | -14.50 |
| 4 | 1.02472 | 0.23 | 32.76 | 29.94 | 32.99 | 30.17 | 56.00 | 46.00 | -23.01 | -15.83 |
| 5 | 1.28125 | 0.25 | 29.10 | 26.27 | 29.35 | 26.52 | 56.00 | 46.00 | -26.65 | -19.48 |
| 6 | 1.53906 | 0.27 | 30.51 | 26.53 | 30.78 | 26.80 | 56.00 | 46.00 | -25.22 | -19.20 |

- 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.



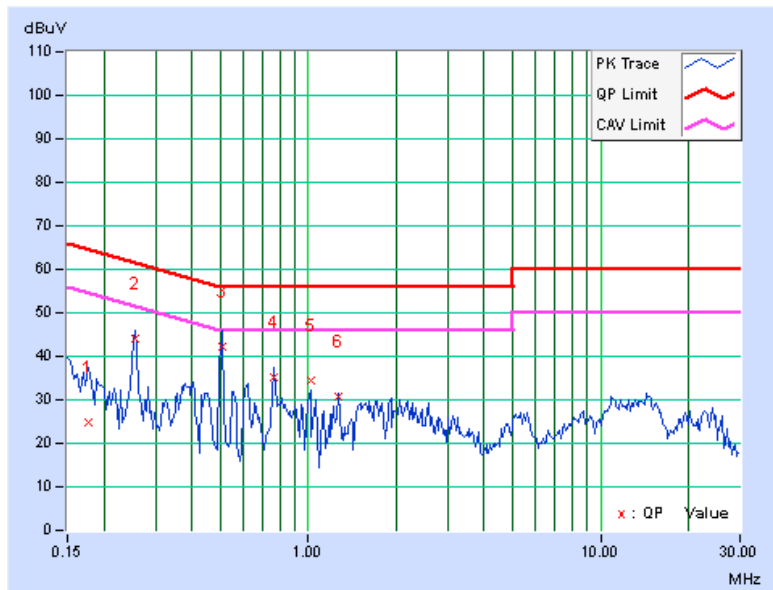


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| | | | |
|---------|------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 52 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.17734 | 0.16 | 24.68 | 15.10 | 24.84 | 15.26 | 64.61 | 54.61 | -39.77 | -39.35 |
| 2 | 0.25721 | 0.16 | 43.92 | 44.51 | 44.08 | 44.67 | 61.52 | 51.52 | -17.44 | -6.85 |
| 3 | 0.50819 | 0.18 | 41.98 | 39.60 | 42.16 | 39.78 | 56.00 | 46.00 | -13.84 | -6.22 |
| 4 | 0.76583 | 0.19 | 35.12 | 33.40 | 35.31 | 33.59 | 56.00 | 46.00 | -20.69 | -12.41 |
| 5 | 1.01953 | 0.19 | 34.26 | 31.92 | 34.45 | 32.11 | 56.00 | 46.00 | -21.55 | -13.89 |
| 6 | 1.27344 | 0.21 | 30.57 | 28.43 | 30.78 | 28.64 | 56.00 | 46.00 | -25.22 | -17.36 |

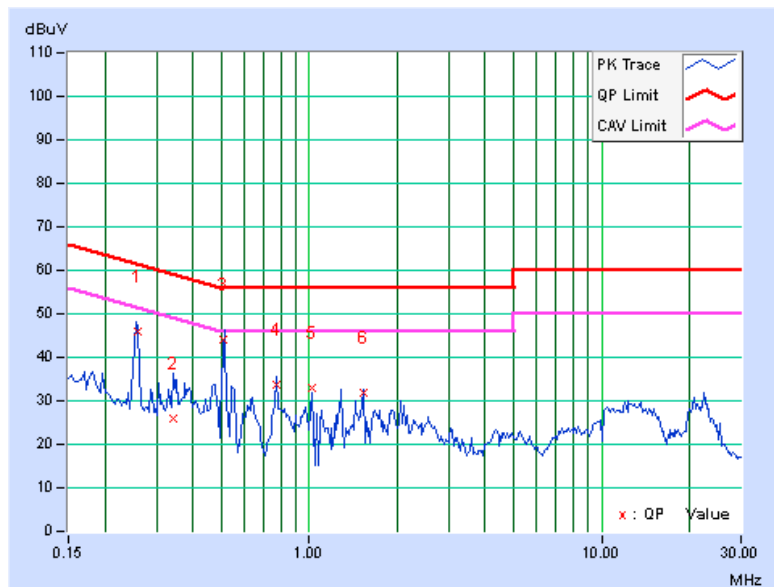
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor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



| | | | |
|----------------|------------|----------------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 60 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25938 | 0.18 | 45.78 | 45.42 | 45.96 | 45.60 | 61.45 | 51.45 | -15.49 | -5.85 |
| 2 | 0.34141 | 0.19 | 25.89 | 23.36 | 26.08 | 23.55 | 59.17 | 49.17 | -33.09 | -25.62 |
| 3 | 0.51081 | 0.21 | 43.88 | 40.01 | 44.09 | 40.22 | 56.00 | 46.00 | -11.91 | -5.78 |
| 4 | 0.77109 | 0.22 | 33.48 | 31.13 | 33.70 | 31.35 | 56.00 | 46.00 | -22.30 | -14.65 |
| 5 | 1.02344 | 0.23 | 32.57 | 29.46 | 32.80 | 29.69 | 56.00 | 46.00 | -23.20 | -16.31 |
| 6 | 1.53906 | 0.27 | 31.50 | 27.16 | 31.77 | 27.43 | 56.00 | 46.00 | -24.23 | -18.57 |

- 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.



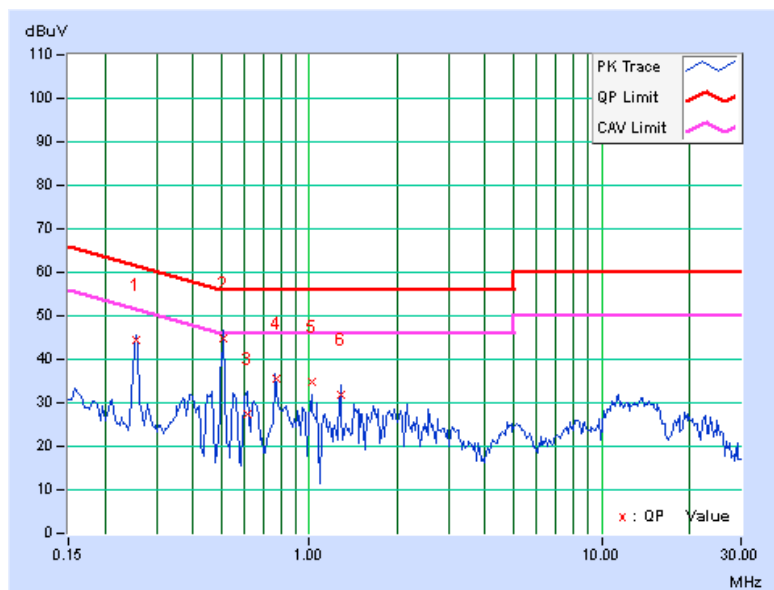


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| | | | |
|---------|------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 60 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|-------------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25547 | 0.16 | 44.27 | 44.55 | 44.43 | 44.71 | 61.58 | 51.58 | -17.15 | -6.87 |
| 2 | 0.51116 | 0.18 | 44.59 | 40.29 | 44.77 | 40.47 | 56.00 | 46.00 | -11.23 | -5.53 |
| 3 | 0.61484 | 0.18 | 27.17 | 22.12 | 27.35 | 22.30 | 56.00 | 46.00 | -28.65 | -23.70 |
| 4 | 0.76899 | 0.19 | 35.26 | 33.11 | 35.45 | 33.30 | 56.00 | 46.00 | -20.55 | -12.70 |
| 5 | 1.02492 | 0.19 | 34.65 | 31.72 | 34.84 | 31.91 | 56.00 | 46.00 | -21.16 | -14.09 |
| 6 | 1.27989 | 0.21 | 31.58 | 28.07 | 31.79 | 28.28 | 56.00 | 46.00 | -24.21 | -17.72 |

- 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.



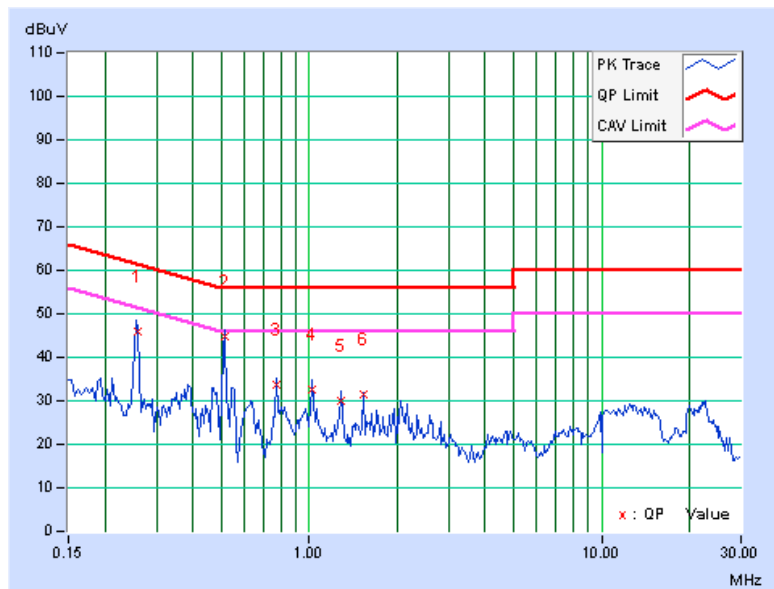


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| | | | |
|----------------|------------|----------------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 64 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25938 | 0.18 | 45.83 | 45.40 | 46.01 | 45.58 | 61.45 | 51.45 | -15.44 | -5.87 |
| 2 | 0.51328 | 0.21 | 44.49 | 40.08 | 44.70 | 40.29 | 56.00 | 46.00 | -11.30 | -5.71 |
| 3 | 0.77109 | 0.22 | 33.56 | 31.21 | 33.78 | 31.43 | 56.00 | 46.00 | -22.22 | -14.57 |
| 4 | 1.02344 | 0.23 | 32.19 | 29.05 | 32.42 | 29.28 | 56.00 | 46.00 | -23.58 | -16.72 |
| 5 | 1.28125 | 0.25 | 29.88 | 27.30 | 30.13 | 27.55 | 56.00 | 46.00 | -25.87 | -18.45 |
| 6 | 1.53906 | 0.27 | 31.30 | 26.97 | 31.57 | 27.24 | 56.00 | 46.00 | -24.43 | -18.76 |

- 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.



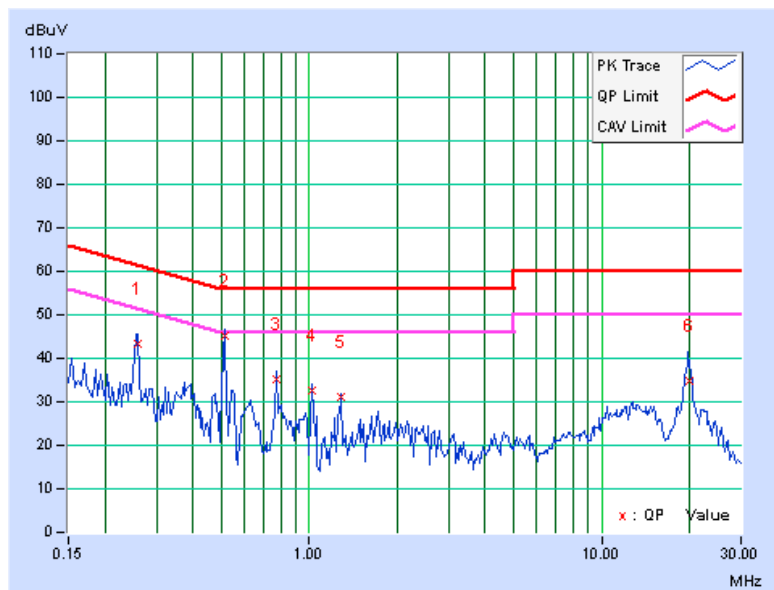


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| | | | |
|---------|------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 64 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|-------------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25938 | 0.16 | 43.11 | 43.60 | 43.27 | 43.76 | 61.45 | 51.45 | -18.18 | -7.69 |
| 2 | 0.51328 | 0.18 | 44.94 | 40.10 | 45.12 | 40.28 | 56.00 | 46.00 | -10.88 | -5.72 |
| 3 | 0.77109 | 0.19 | 34.96 | 33.03 | 35.15 | 33.22 | 56.00 | 46.00 | -20.85 | -12.78 |
| 4 | 1.02344 | 0.19 | 32.39 | 29.30 | 32.58 | 29.49 | 56.00 | 46.00 | -23.42 | -16.51 |
| 5 | 1.28125 | 0.21 | 30.90 | 28.44 | 31.11 | 28.65 | 56.00 | 46.00 | -24.89 | -17.35 |
| 6 | 20.10156 | 0.82 | 33.89 | 27.78 | 34.71 | 28.60 | 60.00 | 50.00 | -25.29 | -21.40 |

- 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.



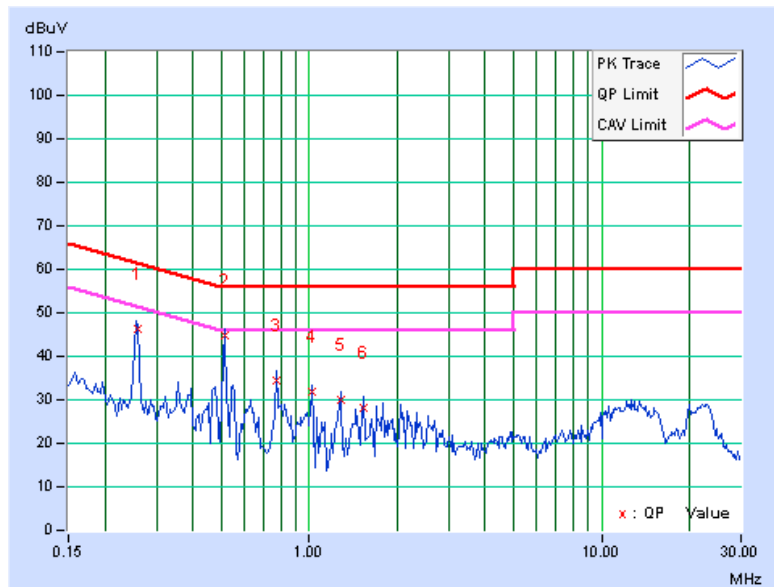


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| | | | |
|----------------|-------------|----------------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 100 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25938 | 0.18 | 45.98 | 45.59 | 46.16 | 45.77 | 61.45 | 51.45 | -15.29 | -5.68 |
| 2 | 0.51328 | 0.21 | 44.57 | 39.26 | 44.78 | 39.47 | 56.00 | 46.00 | -11.22 | -6.53 |
| 3 | 0.77109 | 0.22 | 34.04 | 31.37 | 34.26 | 31.59 | 56.00 | 46.00 | -21.74 | -14.41 |
| 4 | 1.02344 | 0.23 | 31.49 | 28.22 | 31.72 | 28.45 | 56.00 | 46.00 | -24.28 | -17.55 |
| 5 | 1.28125 | 0.25 | 29.92 | 26.71 | 30.17 | 26.96 | 56.00 | 46.00 | -25.83 | -19.04 |
| 6 | 1.53516 | 0.27 | 27.91 | 23.19 | 28.18 | 23.46 | 56.00 | 46.00 | -27.82 | -22.54 |

- 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.



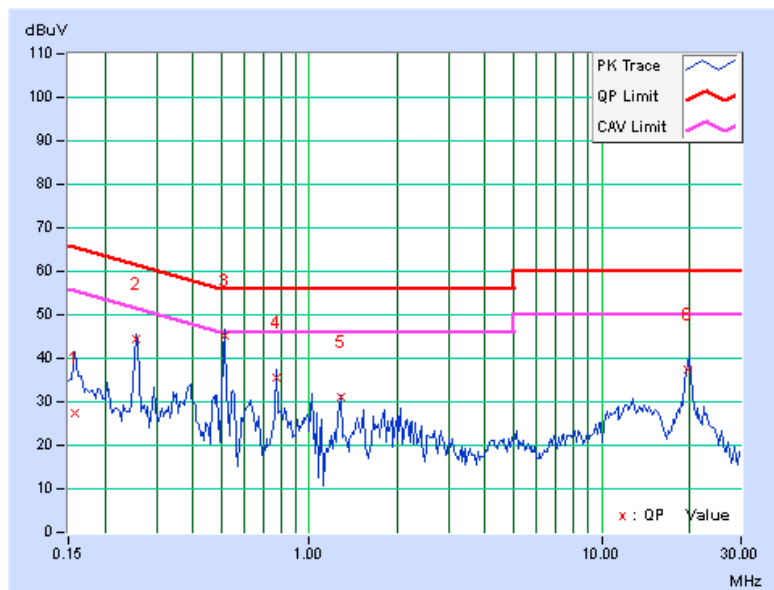


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| | | | |
|---------|-------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 100 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15781 | 0.17 | 27.28 | 19.94 | 27.45 | 20.11 | 65.58 | 55.58 | -38.13 | -35.47 |
| 2 | 0.25547 | 0.16 | 44.18 | 44.67 | 44.34 | 44.83 | 61.58 | 51.58 | -17.24 | -6.75 |
| 3 | 0.51328 | 0.18 | 44.83 | 40.21 | 45.01 | 40.39 | 56.00 | 46.00 | -10.99 | -5.61 |
| 4 | 0.77109 | 0.19 | 35.37 | 33.21 | 35.56 | 33.40 | 56.00 | 46.00 | -20.44 | -12.60 |
| 5 | 1.28125 | 0.21 | 30.84 | 28.17 | 31.05 | 28.38 | 56.00 | 46.00 | -24.95 | -17.62 |
| 6 | 19.62500 | 0.81 | 36.42 | 29.53 | 37.23 | 30.34 | 60.00 | 50.00 | -22.77 | -19.66 |

- 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.



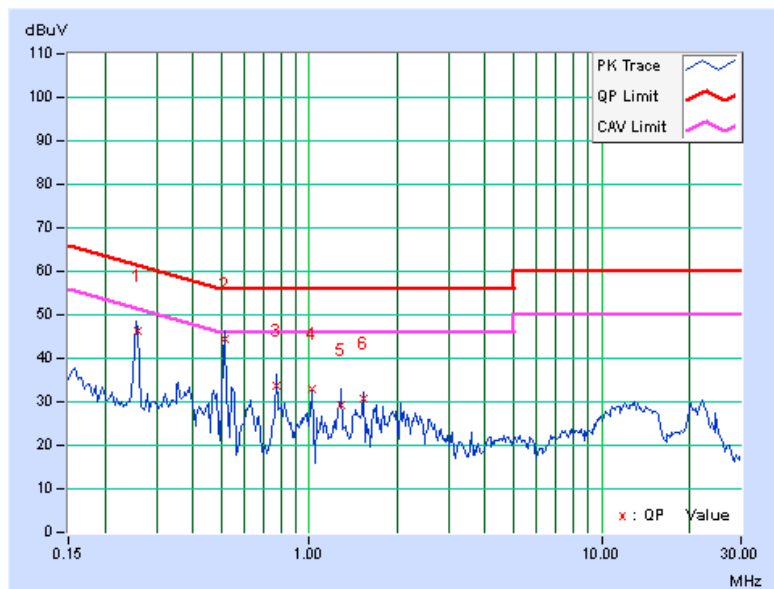


A D T

| | | | |
|----------------|-------------|----------------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 116 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25938 | 0.18 | 46.03 | 45.78 | 46.21 | 45.96 | 61.45 | 51.45 | -15.24 | -5.49 |
| 2 | 0.51328 | 0.21 | 44.35 | 40.25 | 44.56 | 40.46 | 56.00 | 46.00 | -11.44 | -5.54 |
| 3 | 0.77109 | 0.22 | 33.62 | 31.28 | 33.84 | 31.50 | 56.00 | 46.00 | -22.16 | -14.50 |
| 4 | 1.02472 | 0.23 | 32.76 | 29.94 | 32.99 | 30.17 | 56.00 | 46.00 | -23.01 | -15.83 |
| 5 | 1.28125 | 0.25 | 29.10 | 26.27 | 29.35 | 26.52 | 56.00 | 46.00 | -26.65 | -19.48 |
| 6 | 1.53906 | 0.27 | 30.51 | 26.53 | 30.78 | 26.80 | 56.00 | 46.00 | -25.22 | -19.20 |

- 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.



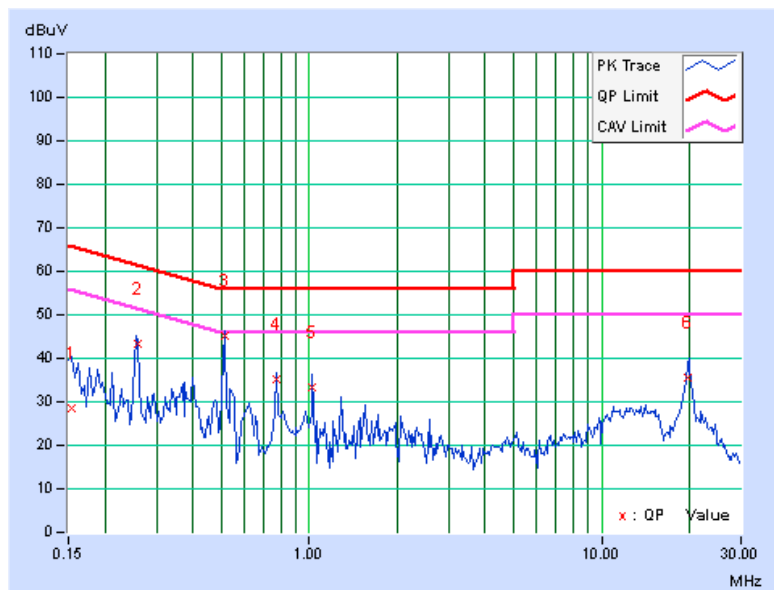


A D T

| | | | |
|---------|-------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 116 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15391 | 0.17 | 28.32 | 21.82 | 28.49 | 21.99 | 65.79 | 55.79 | -37.30 | -33.80 |
| 2 | 0.25938 | 0.16 | 43.09 | 43.60 | 43.25 | 43.76 | 61.45 | 51.45 | -18.20 | -7.69 |
| 3 | 0.51328 | 0.18 | 44.96 | 40.20 | 45.14 | 40.38 | 56.00 | 46.00 | -10.86 | -5.62 |
| 4 | 0.77109 | 0.19 | 34.82 | 33.05 | 35.01 | 33.24 | 56.00 | 46.00 | -20.99 | -12.76 |
| 5 | 1.02488 | 0.19 | 33.21 | 30.80 | 33.40 | 30.99 | 56.00 | 46.00 | -22.60 | -15.01 |
| 6 | 19.62109 | 0.81 | 34.82 | 28.82 | 35.63 | 29.63 | 60.00 | 50.00 | -24.37 | -20.37 |

- 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.



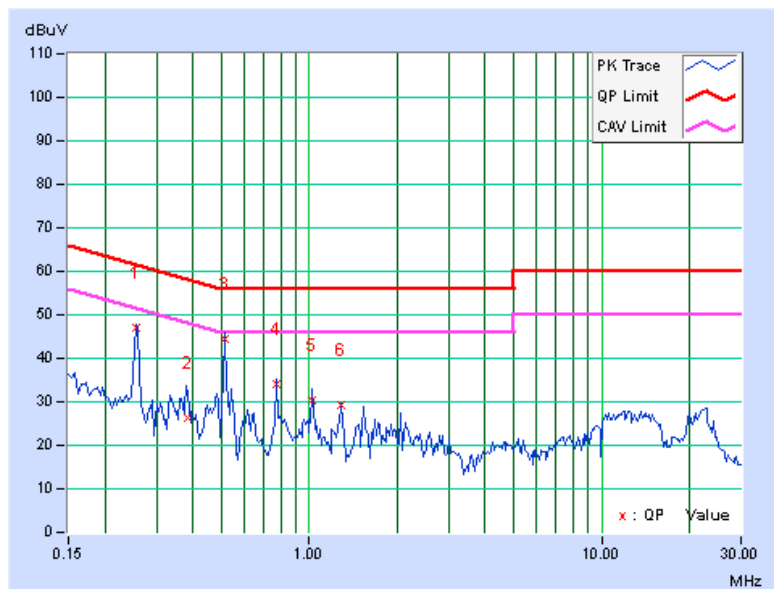


A D T

| | | | |
|----------------|-------------|----------------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 140 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25547 | 0.18 | 46.77 | 46.02 | 46.95 | 46.20 | 61.58 | 51.58 | -14.63 | -5.38 |
| 2 | 0.38438 | 0.20 | 25.99 | 22.47 | 26.19 | 22.67 | 58.18 | 48.18 | -32.00 | -25.52 |
| 3 | 0.51328 | 0.21 | 44.25 | 40.12 | 44.46 | 40.33 | 56.00 | 46.00 | -11.54 | -5.67 |
| 4 | 0.77109 | 0.22 | 33.70 | 31.23 | 33.92 | 31.45 | 56.00 | 46.00 | -22.08 | -14.55 |
| 5 | 1.02344 | 0.23 | 30.25 | 27.25 | 30.48 | 27.48 | 56.00 | 46.00 | -25.52 | -18.52 |
| 6 | 1.28125 | 0.25 | 28.88 | 26.18 | 29.13 | 26.43 | 56.00 | 46.00 | -26.87 | -19.57 |

- 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.



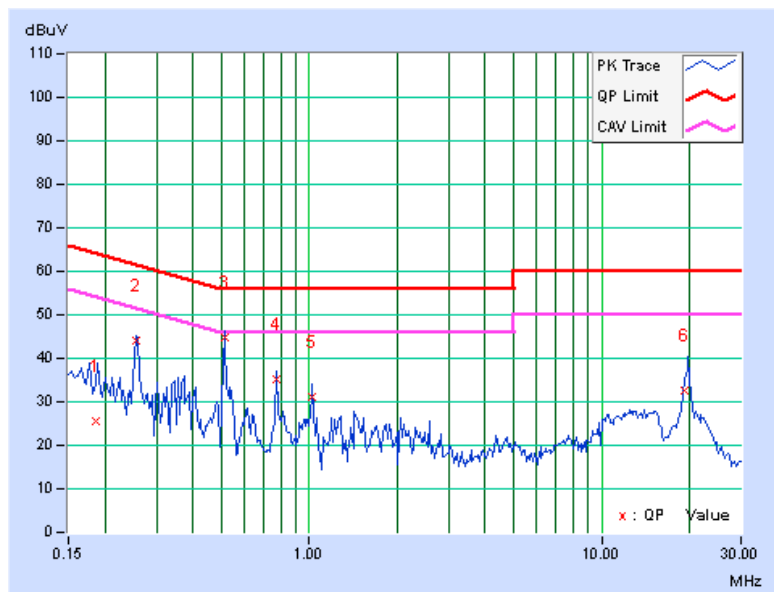


A D T

| | | | |
|---------|-------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 140 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.18516 | 0.16 | 25.44 | 14.27 | 25.60 | 14.43 | 64.25 | 54.25 | -38.65 | -39.82 |
| 2 | 0.25547 | 0.16 | 44.00 | 44.51 | 44.16 | 44.67 | 61.58 | 51.58 | -17.42 | -6.91 |
| 3 | 0.51328 | 0.18 | 44.78 | 40.02 | 44.96 | 40.20 | 56.00 | 46.00 | -11.04 | -5.80 |
| 4 | 0.77109 | 0.19 | 35.06 | 33.07 | 35.25 | 33.26 | 56.00 | 46.00 | -20.75 | -12.74 |
| 5 | 1.02344 | 0.19 | 30.77 | 27.94 | 30.96 | 28.13 | 56.00 | 46.00 | -25.04 | -17.87 |
| 6 | 19.35156 | 0.80 | 31.65 | 24.80 | 32.45 | 25.60 | 60.00 | 50.00 | -27.55 | -24.40 |

- 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.





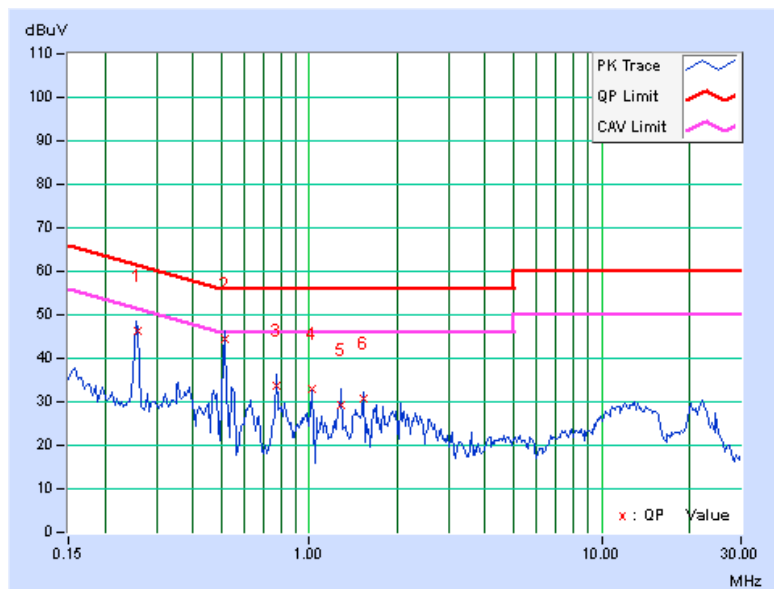
A D T

802.11n (20MHz)

| | | | |
|---------|------------|---------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 52 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|-------------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25938 | 0.18 | 45.01 | 44.80 | 45.19 | 44.98 | 61.45 | 51.45 | -16.26 | -6.47 |
| 2 | 0.51328 | 0.21 | 43.20 | 40.02 | 43.41 | 40.23 | 56.00 | 46.00 | -12.59 | -5.77 |
| 3 | 0.77109 | 0.22 | 33.74 | 31.26 | 33.96 | 31.48 | 56.00 | 46.00 | -22.04 | -14.52 |
| 4 | 1.02344 | 0.23 | 30.24 | 27.68 | 30.47 | 27.91 | 56.00 | 46.00 | -25.53 | -18.09 |
| 5 | 1.28125 | 0.25 | 28.86 | 26.35 | 29.11 | 26.60 | 56.00 | 46.00 | -26.89 | -19.40 |
| 6 | 1.54297 | 0.27 | 30.57 | 26.91 | 30.84 | 27.18 | 56.00 | 46.00 | -25.16 | -18.82 |

- 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.



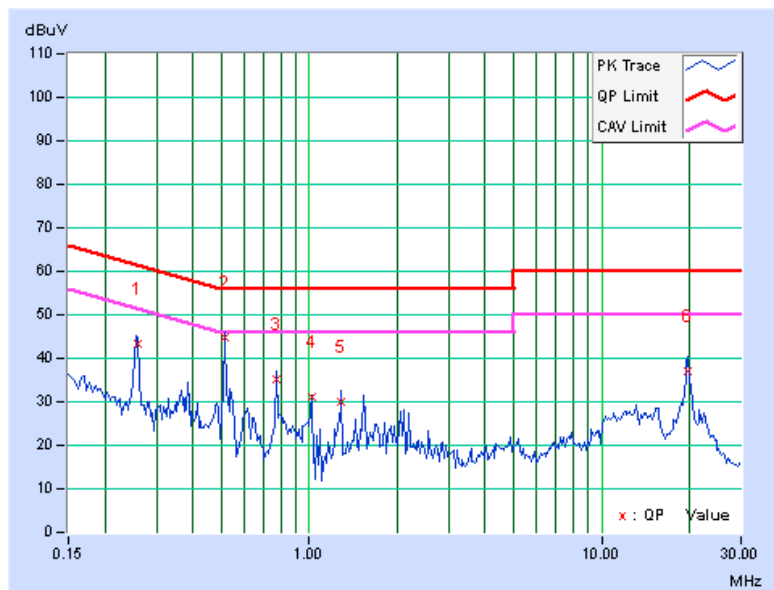


A D T

| | | | |
|---------|------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 52 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|-------------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25938 | 0.16 | 43.25 | 43.92 | 43.41 | 44.08 | 61.45 | 51.45 | -18.04 | -7.37 |
| 2 | 0.51328 | 0.18 | 44.61 | 40.11 | 44.79 | 40.29 | 56.00 | 46.00 | -11.21 | -5.71 |
| 3 | 0.77109 | 0.19 | 35.12 | 33.19 | 35.31 | 33.38 | 56.00 | 46.00 | -20.69 | -12.62 |
| 4 | 1.02344 | 0.19 | 30.85 | 28.34 | 31.04 | 28.53 | 56.00 | 46.00 | -24.96 | -17.47 |
| 5 | 1.28125 | 0.21 | 29.86 | 27.73 | 30.07 | 27.94 | 56.00 | 46.00 | -25.93 | -18.06 |
| 6 | 19.76953 | 0.81 | 36.23 | 28.92 | 37.04 | 29.73 | 60.00 | 50.00 | -22.96 | -20.27 |

- 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.



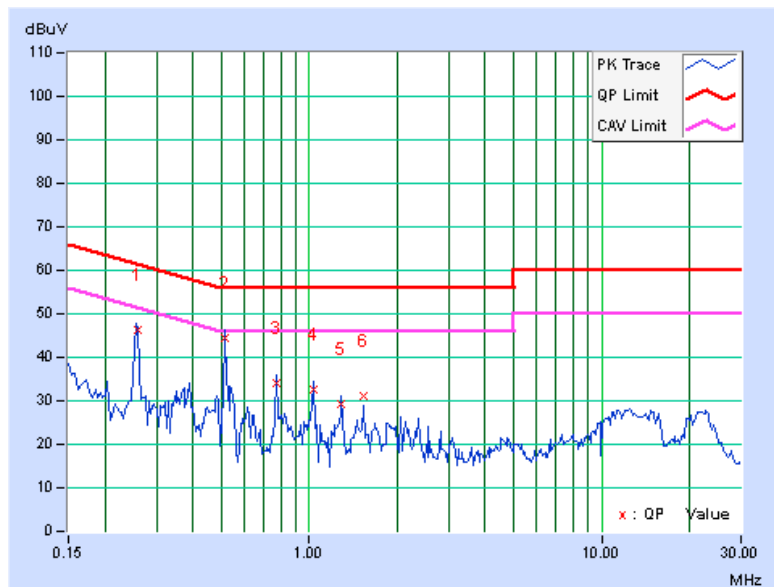


A D T

| | | | |
|----------------|------------|----------------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 60 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25938 | 0.18 | 45.98 | 44.56 | 46.16 | 44.74 | 61.45 | 51.45 | -15.29 | -6.71 |
| 2 | 0.51328 | 0.21 | 44.29 | 40.01 | 44.50 | 40.22 | 56.00 | 46.00 | -11.50 | -5.78 |
| 3 | 0.77109 | 0.22 | 33.74 | 31.23 | 33.96 | 31.45 | 56.00 | 46.00 | -22.04 | -14.55 |
| 4 | 1.03125 | 0.23 | 32.41 | 29.36 | 32.64 | 29.59 | 56.00 | 46.00 | -23.36 | -16.41 |
| 5 | 1.28125 | 0.25 | 28.92 | 26.14 | 29.17 | 26.39 | 56.00 | 46.00 | -26.83 | -19.61 |
| 6 | 1.54297 | 0.27 | 31.00 | 27.08 | 31.27 | 27.35 | 56.00 | 46.00 | -24.73 | -18.65 |

- 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.



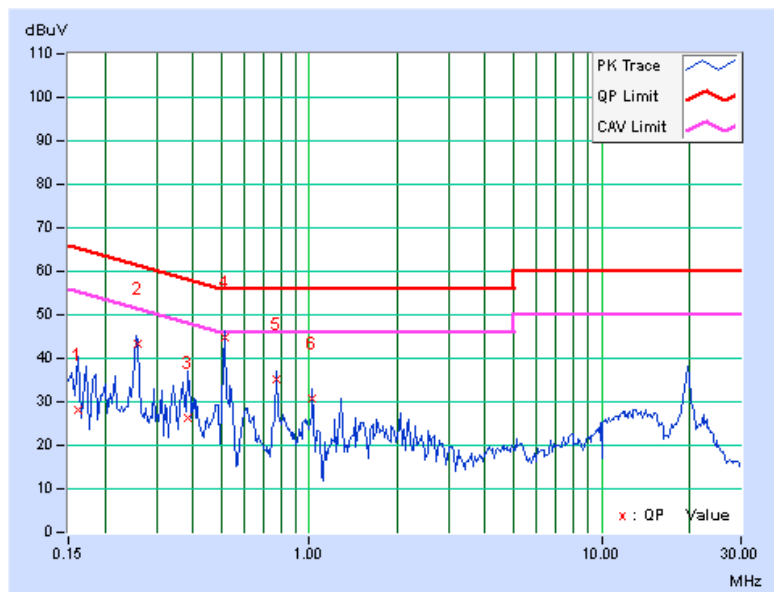


A D T

| | | | |
|---------|------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 60 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.16172 | 0.17 | 27.89 | 16.20 | 28.06 | 16.37 | 65.38 | 55.38 | -37.32 | -39.01 |
| 2 | 0.25938 | 0.16 | 43.35 | 43.84 | 43.51 | 44.00 | 61.45 | 51.45 | -17.94 | -7.45 |
| 3 | 0.38438 | 0.18 | 26.03 | 23.48 | 26.21 | 23.66 | 58.18 | 48.18 | -31.98 | -24.53 |
| 4 | 0.51328 | 0.18 | 44.57 | 40.02 | 44.75 | 40.20 | 56.00 | 46.00 | -11.25 | -5.80 |
| 5 | 0.77109 | 0.19 | 35.16 | 33.17 | 35.35 | 33.36 | 56.00 | 46.00 | -20.65 | -12.64 |
| 6 | 1.02344 | 0.19 | 30.58 | 28.06 | 30.77 | 28.25 | 56.00 | 46.00 | -25.23 | -17.75 |

- 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.



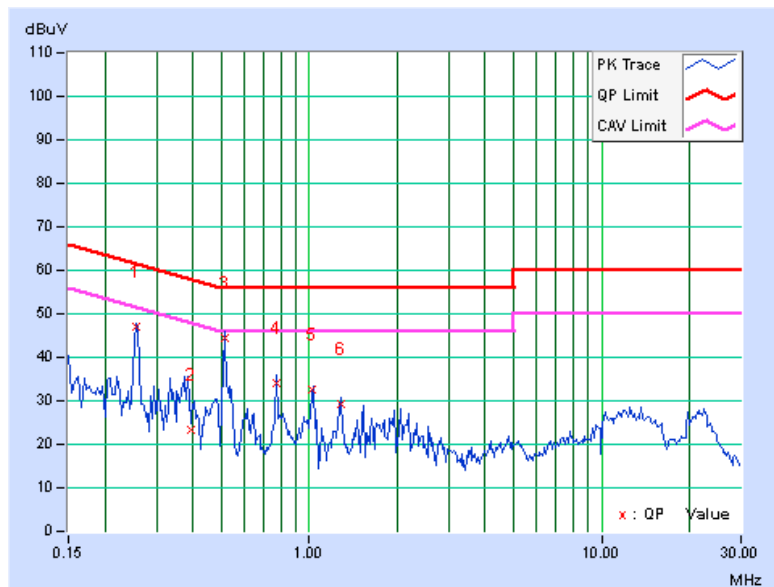


A D T

| | | | |
|---------|------------|---------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 64 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25547 | 0.18 | 46.83 | 45.40 | 47.01 | 45.58 | 61.58 | 51.58 | -14.57 | -6.00 |
| 2 | 0.39219 | 0.20 | 23.14 | 16.66 | 23.34 | 16.86 | 58.02 | 48.02 | -34.68 | -31.16 |
| 3 | 0.51328 | 0.21 | 44.21 | 39.12 | 44.42 | 39.33 | 56.00 | 46.00 | -11.58 | -6.67 |
| 4 | 0.77109 | 0.22 | 33.88 | 31.25 | 34.10 | 31.47 | 56.00 | 46.00 | -21.90 | -14.53 |
| 5 | 1.02478 | 0.23 | 32.35 | 29.97 | 32.58 | 30.20 | 56.00 | 46.00 | -23.42 | -15.80 |
| 6 | 1.28125 | 0.25 | 28.96 | 26.18 | 29.21 | 26.43 | 56.00 | 46.00 | -26.79 | -19.57 |

- 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.



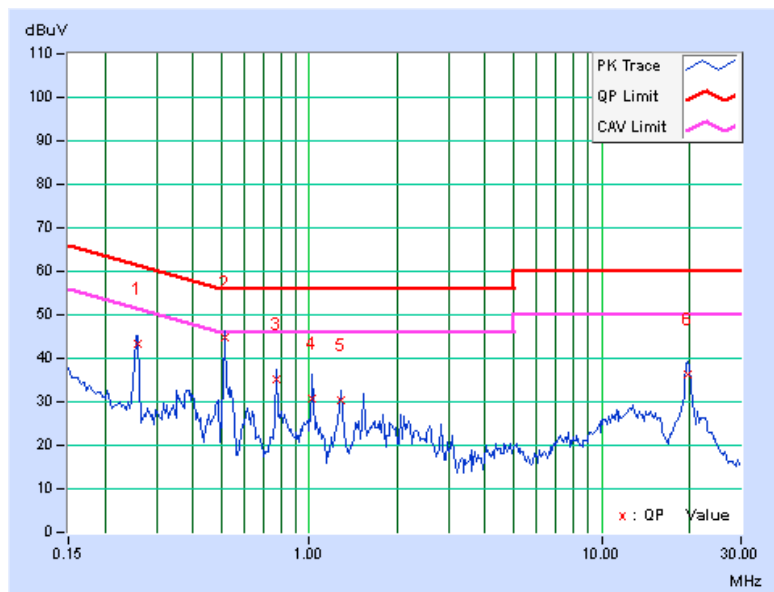


A D T

| | | | |
|---------|------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 64 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25938 | 0.16 | 43.25 | 43.72 | 43.41 | 43.88 | 61.45 | 51.45 | -18.04 | -7.57 |
| 2 | 0.51328 | 0.18 | 44.70 | 40.01 | 44.88 | 40.19 | 56.00 | 46.00 | -11.12 | -5.81 |
| 3 | 0.77109 | 0.19 | 35.08 | 33.11 | 35.27 | 33.30 | 56.00 | 46.00 | -20.73 | -12.70 |
| 4 | 1.02344 | 0.19 | 30.65 | 27.98 | 30.84 | 28.17 | 56.00 | 46.00 | -25.16 | -17.83 |
| 5 | 1.28125 | 0.21 | 30.14 | 27.60 | 30.35 | 27.81 | 56.00 | 46.00 | -25.65 | -18.19 |
| 6 | 19.82813 | 0.82 | 35.51 | 28.63 | 36.33 | 29.45 | 60.00 | 50.00 | -23.67 | -20.55 |

- 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.



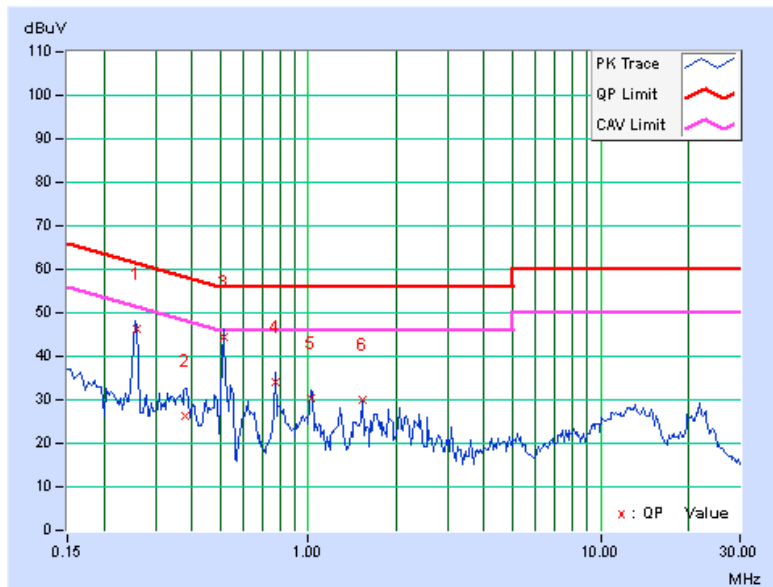


A D T

| | | | |
|----------------|-------------|----------------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 100 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25938 | 0.18 | 46.05 | 45.80 | 46.23 | 45.98 | 61.45 | 51.45 | -15.22 | -5.47 |
| 2 | 0.38047 | 0.20 | 26.09 | 22.92 | 26.29 | 23.12 | 58.27 | 48.27 | -31.98 | -25.15 |
| 3 | 0.51328 | 0.21 | 44.18 | 40.01 | 44.39 | 40.22 | 56.00 | 46.00 | -11.61 | -5.78 |
| 4 | 0.77109 | 0.22 | 33.78 | 31.32 | 34.00 | 31.54 | 56.00 | 46.00 | -22.00 | -14.46 |
| 5 | 1.02344 | 0.23 | 30.07 | 27.38 | 30.30 | 27.61 | 56.00 | 46.00 | -25.70 | -18.39 |
| 6 | 1.53906 | 0.27 | 29.74 | 26.13 | 30.01 | 26.40 | 56.00 | 46.00 | -25.99 | -19.60 |

- 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.



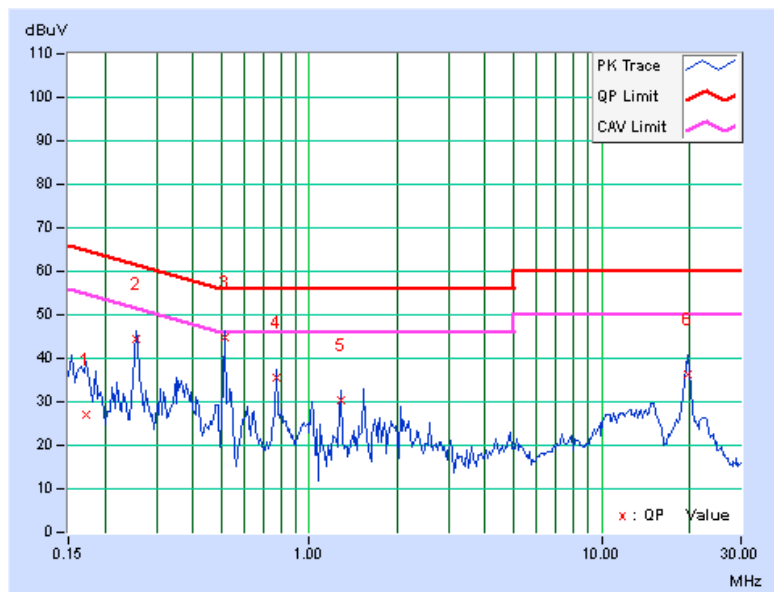


A D T

| | | | |
|---------|-------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 100 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.17344 | 0.16 | 26.73 | 14.42 | 26.89 | 14.58 | 64.79 | 54.79 | -37.90 | -40.21 |
| 2 | 0.25547 | 0.16 | 44.14 | 44.65 | 44.30 | 44.81 | 61.58 | 51.58 | -17.28 | -6.77 |
| 3 | 0.51328 | 0.18 | 44.55 | 39.59 | 44.73 | 39.77 | 56.00 | 46.00 | -11.27 | -6.23 |
| 4 | 0.77109 | 0.19 | 35.31 | 33.23 | 35.50 | 33.42 | 56.00 | 46.00 | -20.50 | -12.58 |
| 5 | 1.28125 | 0.21 | 30.00 | 27.63 | 30.21 | 27.84 | 56.00 | 46.00 | -25.79 | -18.16 |
| 6 | 19.80078 | 0.82 | 35.34 | 28.78 | 36.16 | 29.60 | 60.00 | 50.00 | -23.84 | -20.40 |

- 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.



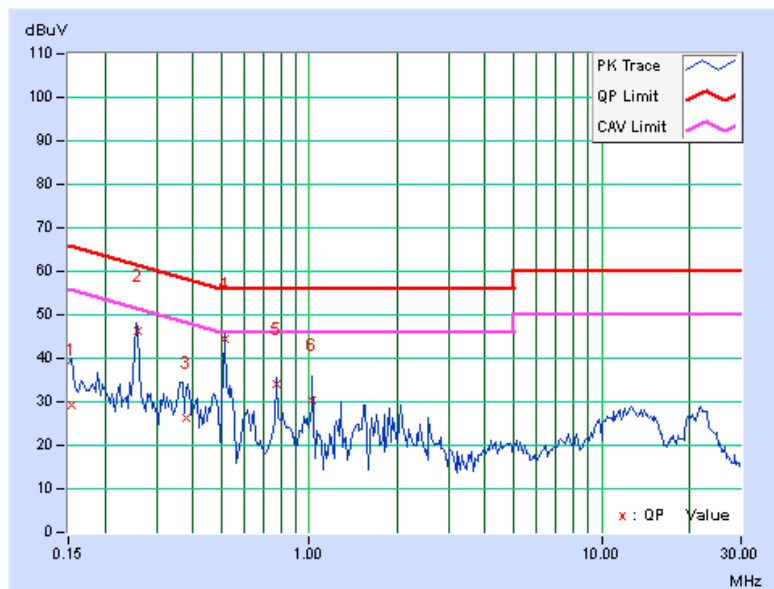


A D T

| | | | |
|----------------|-------------|----------------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 116 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15391 | 0.17 | 29.18 | 18.91 | 29.35 | 19.08 | 65.79 | 55.79 | -36.44 | -36.71 |
| 2 | 0.25938 | 0.18 | 46.00 | 45.11 | 46.18 | 45.29 | 61.45 | 51.45 | -15.27 | -6.16 |
| 3 | 0.38047 | 0.20 | 25.93 | 22.88 | 26.13 | 23.08 | 58.27 | 48.27 | -32.14 | -25.19 |
| 4 | 0.51328 | 0.21 | 44.27 | 40.02 | 44.48 | 40.23 | 56.00 | 46.00 | -11.52 | -5.77 |
| 5 | 0.77109 | 0.22 | 33.82 | 31.25 | 34.04 | 31.47 | 56.00 | 46.00 | -21.96 | -14.53 |
| 6 | 1.02344 | 0.23 | 30.13 | 27.21 | 30.36 | 27.44 | 56.00 | 46.00 | -25.64 | -18.56 |

- 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.



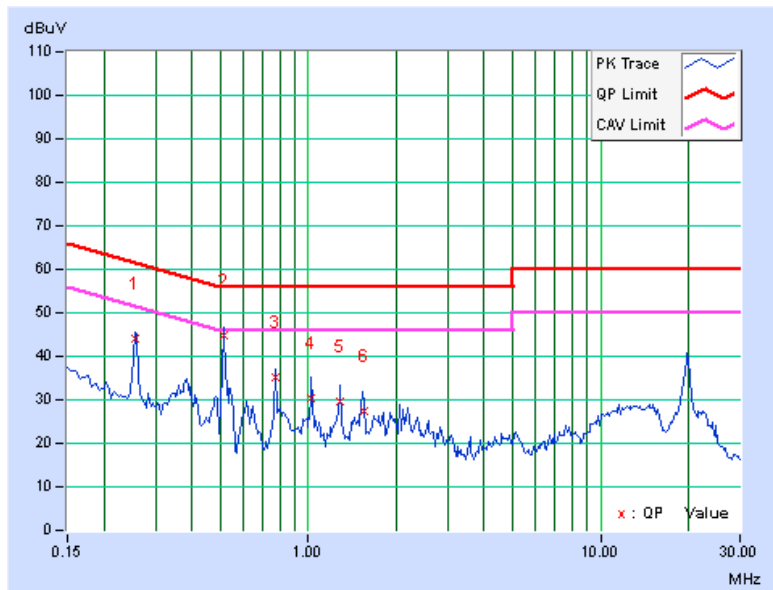


A D T

| | | | |
|---------|-------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 116 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|-------------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25547 | 0.16 | 44.01 | 44.69 | 44.17 | 44.85 | 61.58 | 51.58 | -17.41 | -6.73 |
| 2 | 0.51328 | 0.18 | 44.55 | 40.21 | 44.73 | 40.39 | 56.00 | 46.00 | -11.27 | -5.61 |
| 3 | 0.77109 | 0.19 | 35.10 | 33.21 | 35.29 | 33.40 | 56.00 | 46.00 | -20.71 | -12.60 |
| 4 | 1.02344 | 0.19 | 30.26 | 27.72 | 30.45 | 27.91 | 56.00 | 46.00 | -25.55 | -18.09 |
| 5 | 1.28125 | 0.21 | 29.48 | 27.27 | 29.69 | 27.48 | 56.00 | 46.00 | -26.31 | -18.52 |
| 6 | 1.54688 | 0.23 | 27.00 | 22.25 | 27.23 | 22.48 | 56.00 | 46.00 | -28.77 | -23.52 |

- 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.



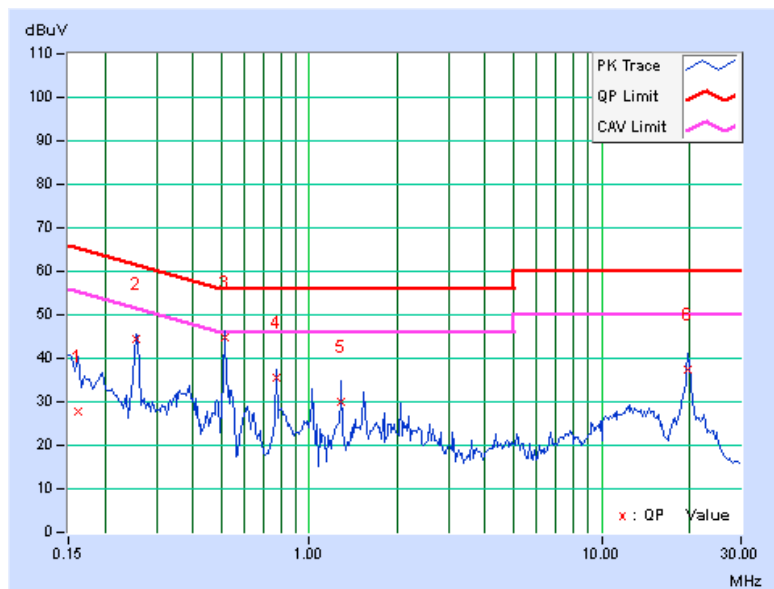


A D T

| | | | |
|---------|-------------|---------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 140 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.16172 | 0.17 | 27.78 | 15.44 | 27.95 | 15.61 | 65.38 | 55.38 | -37.43 | -39.77 |
| 2 | 0.25547 | 0.18 | 44.10 | 44.61 | 44.28 | 44.79 | 61.58 | 51.58 | -17.30 | -6.79 |
| 3 | 0.51328 | 0.21 | 44.57 | 39.94 | 44.78 | 40.15 | 56.00 | 46.00 | -11.22 | -5.85 |
| 4 | 0.77109 | 0.22 | 35.16 | 33.21 | 35.38 | 33.43 | 56.00 | 46.00 | -20.62 | -12.57 |
| 5 | 1.28125 | 0.25 | 29.66 | 27.47 | 29.91 | 27.72 | 56.00 | 46.00 | -26.09 | -18.28 |
| 6 | 19.76953 | 0.72 | 36.53 | 29.58 | 37.25 | 30.30 | 60.00 | 50.00 | -22.75 | -19.70 |

- 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.



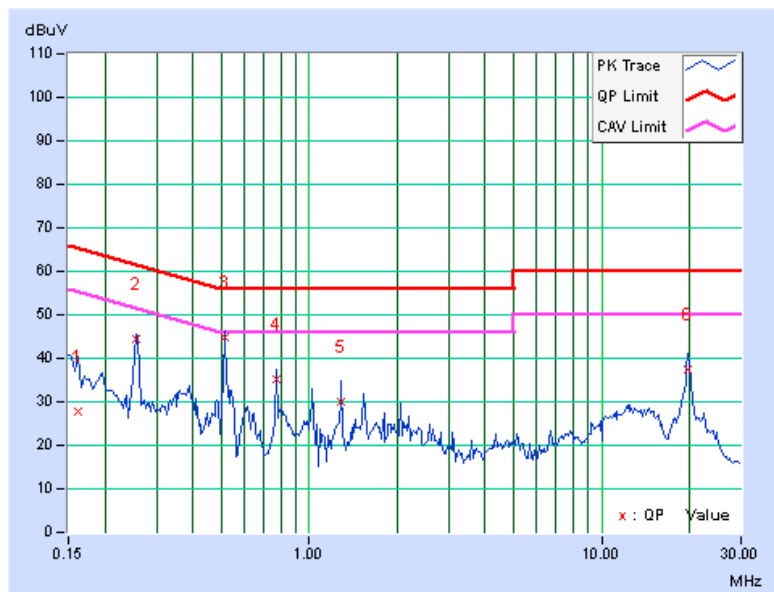


A D T

| | | | |
|---------|-------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 140 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.16172 | 0.17 | 27.78 | 15.44 | 27.95 | 15.61 | 65.38 | 55.38 | -37.43 | -39.77 |
| 2 | 0.25547 | 0.16 | 44.10 | 44.61 | 44.26 | 44.77 | 61.58 | 51.58 | -17.32 | -6.81 |
| 3 | 0.51328 | 0.18 | 44.57 | 39.94 | 44.75 | 40.12 | 56.00 | 46.00 | -11.25 | -5.88 |
| 4 | 0.77109 | 0.19 | 35.16 | 33.21 | 35.35 | 33.40 | 56.00 | 46.00 | -20.65 | -12.60 |
| 5 | 1.28125 | 0.21 | 29.66 | 27.47 | 29.87 | 27.68 | 56.00 | 46.00 | -26.13 | -18.32 |
| 6 | 19.76953 | 0.81 | 36.53 | 29.58 | 37.34 | 30.39 | 60.00 | 50.00 | -22.66 | -19.61 |

- 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.





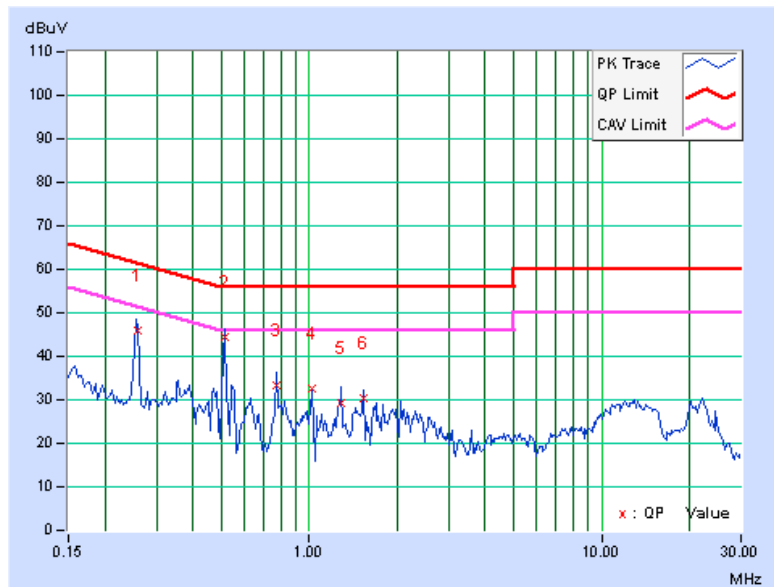
A D T

802.11n (40MHz)

| | | | |
|---------|------------|---------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 54 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25938 | 0.18 | 45.86 | 45.37 | 46.04 | 45.55 | 61.45 | 51.45 | -15.41 | -5.90 |
| 2 | 0.51328 | 0.21 | 44.21 | 39.98 | 44.42 | 40.19 | 56.00 | 46.00 | -11.58 | -5.81 |
| 3 | 0.77109 | 0.22 | 33.21 | 30.89 | 33.43 | 31.11 | 56.00 | 46.00 | -22.57 | -14.89 |
| 4 | 1.02472 | 0.23 | 32.25 | 29.86 | 32.48 | 30.09 | 56.00 | 46.00 | -23.52 | -15.91 |
| 5 | 1.28125 | 0.25 | 28.91 | 26.28 | 29.16 | 26.53 | 56.00 | 46.00 | -26.84 | -19.47 |
| 6 | 1.53906 | 0.27 | 30.22 | 26.43 | 30.49 | 26.70 | 56.00 | 46.00 | -25.51 | -19.30 |

- 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.



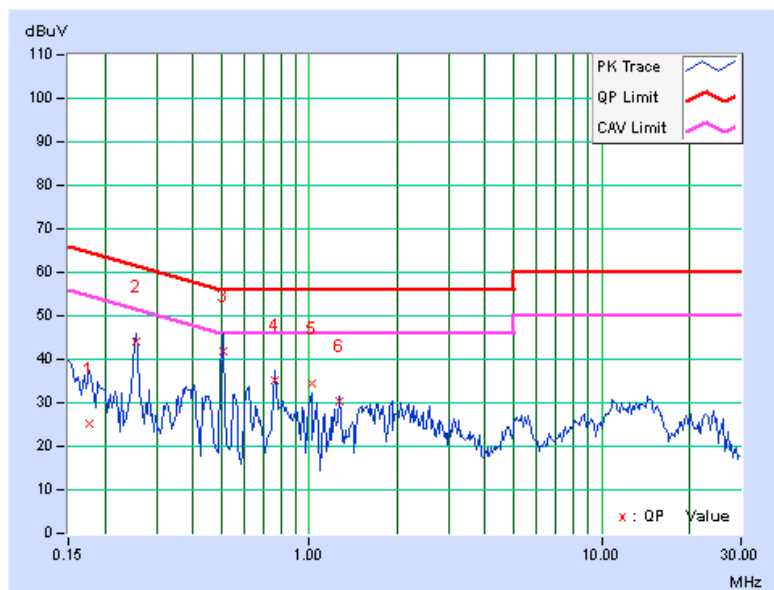


A D T

| | | | |
|---------|------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 54 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.17734 | 0.16 | 24.85 | 15.35 | 25.01 | 15.51 | 64.61 | 54.61 | -39.60 | -39.10 |
| 2 | 0.25721 | 0.16 | 43.85 | 42.98 | 44.01 | 43.14 | 61.52 | 51.52 | -17.51 | -8.38 |
| 3 | 0.50819 | 0.18 | 41.67 | 39.51 | 41.85 | 39.69 | 56.00 | 46.00 | -14.15 | -6.31 |
| 4 | 0.76583 | 0.19 | 35.01 | 33.21 | 35.20 | 33.40 | 56.00 | 46.00 | -20.80 | -12.60 |
| 5 | 1.01953 | 0.19 | 34.12 | 30.58 | 34.31 | 30.77 | 56.00 | 46.00 | -21.69 | -15.23 |
| 6 | 1.27344 | 0.21 | 30.21 | 28.23 | 30.42 | 28.44 | 56.00 | 46.00 | -25.58 | -17.56 |

- 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.



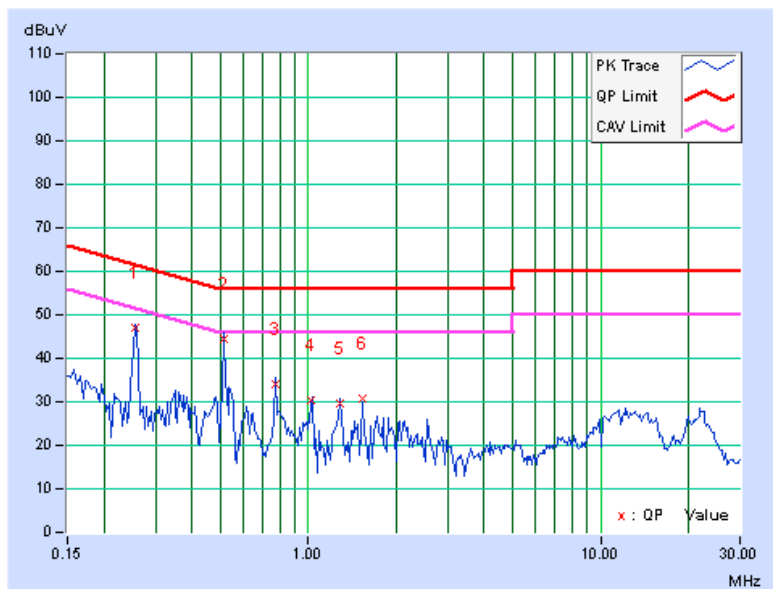


A D T

| | | | |
|----------------|------------|----------------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 62 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25547 | 0.18 | 46.81 | 44.32 | 46.99 | 44.50 | 61.58 | 51.58 | -14.59 | -7.08 |
| 2 | 0.51328 | 0.21 | 44.27 | 40.10 | 44.48 | 40.31 | 56.00 | 46.00 | -11.52 | -5.69 |
| 3 | 0.77109 | 0.22 | 33.88 | 31.31 | 34.10 | 31.53 | 56.00 | 46.00 | -21.90 | -14.47 |
| 4 | 1.02344 | 0.23 | 30.29 | 27.57 | 30.52 | 27.80 | 56.00 | 46.00 | -25.48 | -18.20 |
| 5 | 1.28125 | 0.25 | 29.31 | 26.53 | 29.56 | 26.78 | 56.00 | 46.00 | -26.44 | -19.22 |
| 6 | 1.53906 | 0.27 | 30.38 | 26.28 | 30.65 | 26.55 | 56.00 | 46.00 | -25.35 | -19.45 |

- 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.



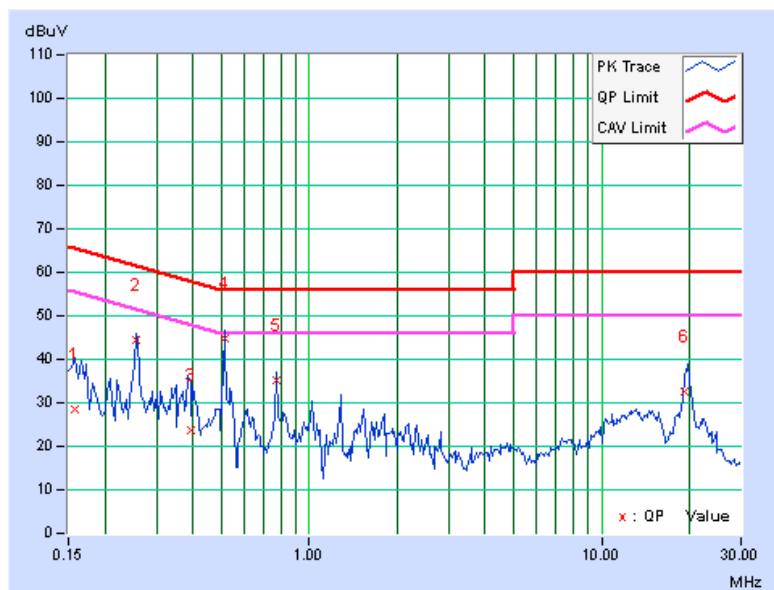


A D T

| | | | |
|---------|------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 62 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15781 | 0.17 | 28.44 | 17.16 | 28.61 | 17.33 | 65.58 | 55.58 | -36.97 | -38.25 |
| 2 | 0.25547 | 0.16 | 44.18 | 44.65 | 44.34 | 44.81 | 61.58 | 51.58 | -17.24 | -6.77 |
| 3 | 0.39219 | 0.18 | 23.47 | 17.78 | 23.65 | 17.96 | 58.02 | 48.02 | -34.37 | -30.06 |
| 4 | 0.51328 | 0.18 | 44.53 | 40.20 | 44.71 | 40.38 | 56.00 | 46.00 | -11.29 | -5.62 |
| 5 | 0.77109 | 0.19 | 35.16 | 33.17 | 35.35 | 33.36 | 56.00 | 46.00 | -20.65 | -12.64 |
| 6 | 19.32813 | 0.80 | 31.80 | 25.12 | 32.60 | 25.92 | 60.00 | 50.00 | -27.40 | -24.08 |

- 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.



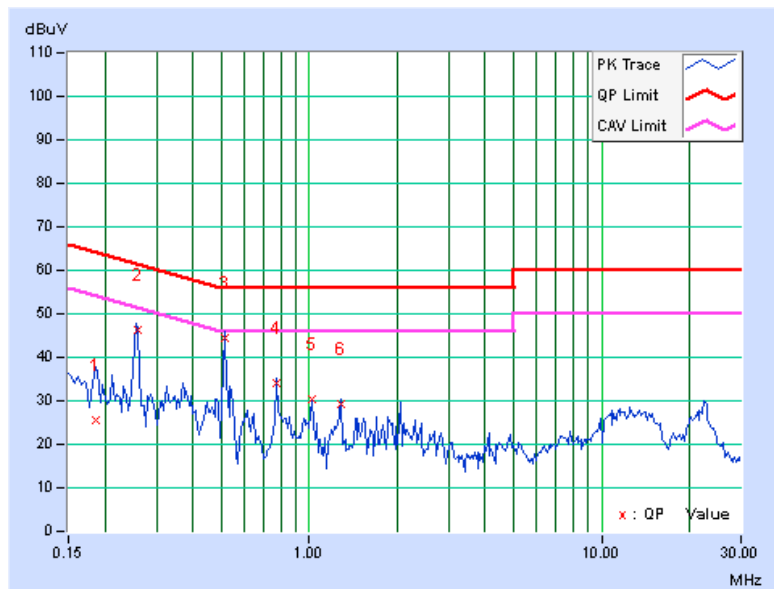


A D T

| | | | |
|---------|-------------|---------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 102 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.18516 | 0.17 | 25.24 | 16.86 | 25.41 | 17.03 | 64.25 | 54.25 | -38.84 | -37.22 |
| 2 | 0.25938 | 0.18 | 46.08 | 44.69 | 46.26 | 44.87 | 61.45 | 51.45 | -15.19 | -6.58 |
| 3 | 0.51328 | 0.21 | 44.16 | 40.10 | 44.37 | 40.31 | 56.00 | 46.00 | -11.63 | -5.69 |
| 4 | 0.77109 | 0.22 | 33.88 | 31.32 | 34.10 | 31.54 | 56.00 | 46.00 | -21.90 | -14.46 |
| 5 | 1.02344 | 0.23 | 30.32 | 27.84 | 30.55 | 28.07 | 56.00 | 46.00 | -25.45 | -17.93 |
| 6 | 1.28125 | 0.25 | 29.02 | 26.49 | 29.27 | 26.74 | 56.00 | 46.00 | -26.73 | -19.26 |

- REMARKS:**
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 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.



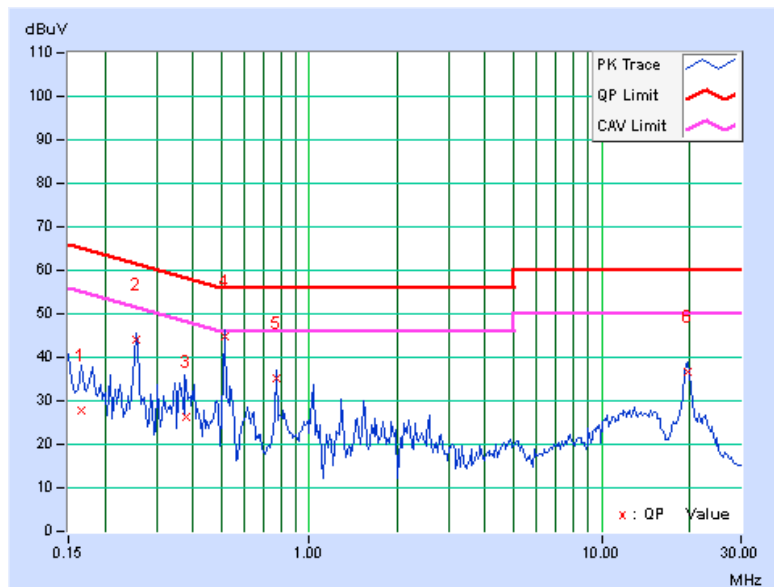


A D T

| | | | |
|---------|-------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 102 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|-------------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.16562 | 0.16 | 27.56 | 15.98 | 27.72 | 16.14 | 65.18 | 55.18 | -37.45 | -39.03 |
| 2 | 0.25547 | 0.16 | 43.99 | 44.47 | 44.15 | 44.63 | 61.58 | 51.58 | -17.43 | -6.95 |
| 3 | 0.38047 | 0.18 | 26.07 | 23.46 | 26.25 | 23.64 | 58.27 | 48.27 | -32.02 | -24.63 |
| 4 | 0.51328 | 0.18 | 44.51 | 40.11 | 44.69 | 40.29 | 56.00 | 46.00 | -11.31 | -5.71 |
| 5 | 0.77109 | 0.19 | 35.14 | 33.19 | 35.33 | 33.38 | 56.00 | 46.00 | -20.67 | -12.62 |
| 6 | 19.65234 | 0.81 | 35.83 | 29.07 | 36.64 | 29.88 | 60.00 | 50.00 | -23.36 | -20.12 |

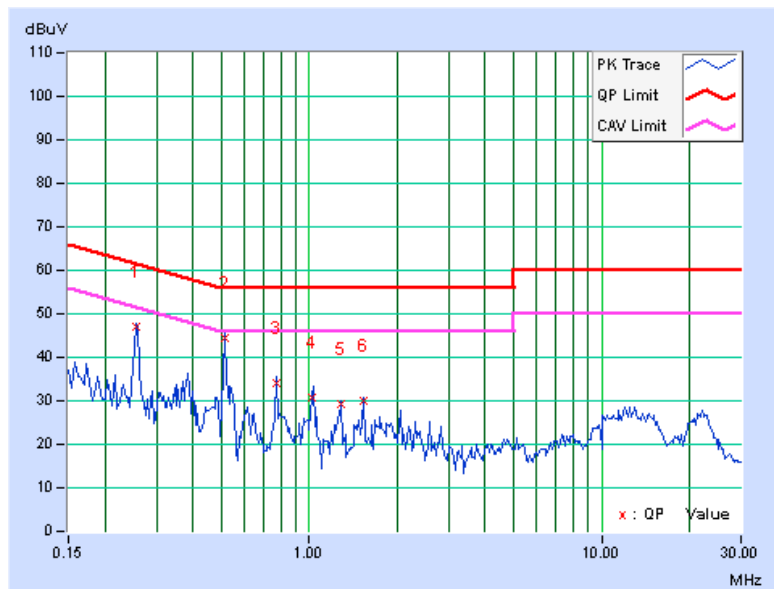
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor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



| | | | |
|----------------|-------------|----------------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 110 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25547 | 0.18 | 46.92 | 45.67 | 47.10 | 45.85 | 61.58 | 51.58 | -14.48 | -5.73 |
| 2 | 0.51328 | 0.21 | 44.10 | 40.21 | 44.31 | 40.42 | 56.00 | 46.00 | -11.69 | -5.58 |
| 3 | 0.77109 | 0.22 | 33.84 | 31.34 | 34.06 | 31.56 | 56.00 | 46.00 | -21.94 | -14.44 |
| 4 | 1.02344 | 0.23 | 30.40 | 27.78 | 30.63 | 28.01 | 56.00 | 46.00 | -25.37 | -17.99 |
| 5 | 1.28125 | 0.25 | 28.96 | 26.51 | 29.21 | 26.76 | 56.00 | 46.00 | -26.79 | -19.24 |
| 6 | 1.53906 | 0.27 | 29.82 | 26.37 | 30.09 | 26.64 | 56.00 | 46.00 | -25.91 | -19.36 |

- 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.



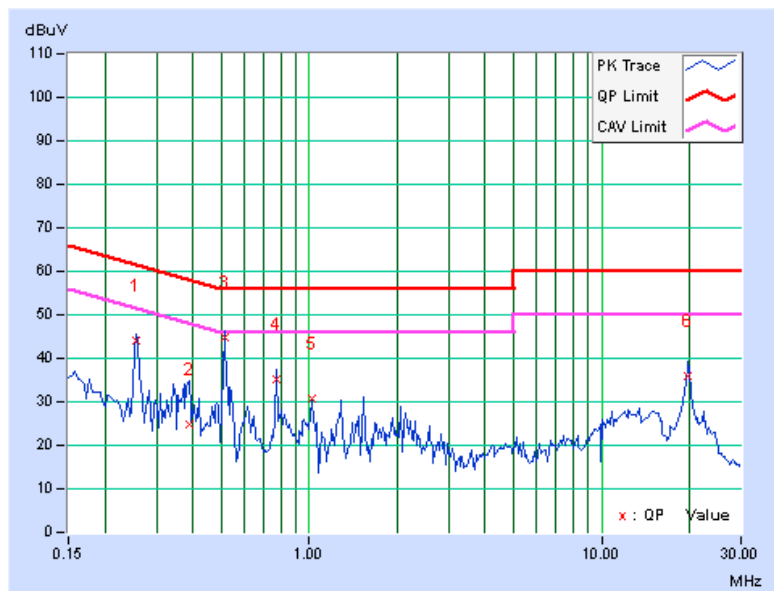


A D T

| | | | |
|---------|-------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 110 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25547 | 0.16 | 44.01 | 44.47 | 44.17 | 44.63 | 61.58 | 51.58 | -17.41 | -6.95 |
| 2 | 0.38828 | 0.18 | 24.82 | 16.94 | 25.00 | 17.12 | 58.10 | 48.10 | -33.10 | -30.98 |
| 3 | 0.51328 | 0.18 | 44.61 | 40.21 | 44.79 | 40.39 | 56.00 | 46.00 | -11.21 | -5.61 |
| 4 | 0.77109 | 0.19 | 35.10 | 33.17 | 35.29 | 33.36 | 56.00 | 46.00 | -20.71 | -12.64 |
| 5 | 1.02344 | 0.19 | 30.64 | 28.30 | 30.83 | 28.49 | 56.00 | 46.00 | -25.17 | -17.51 |
| 6 | 19.60156 | 0.81 | 35.00 | 29.11 | 35.81 | 29.92 | 60.00 | 50.00 | -24.19 | -20.08 |

- 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.



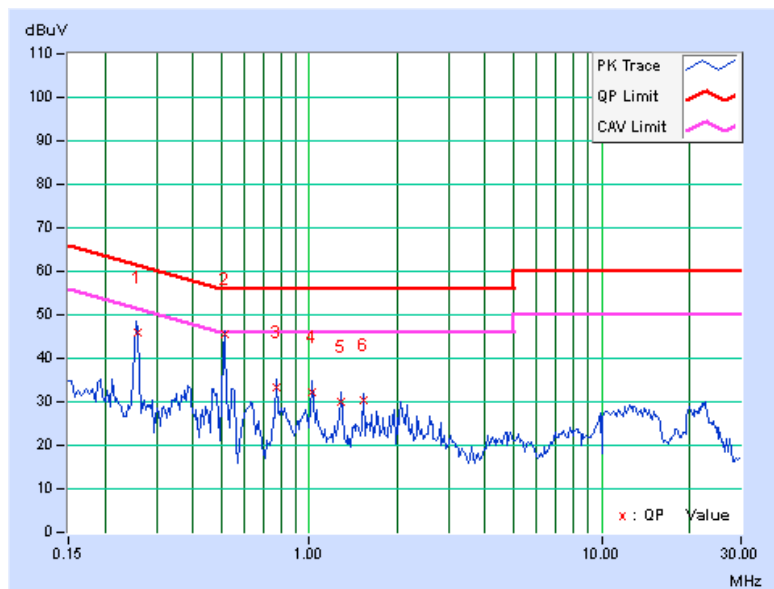


A D T

| | | | |
|----------------|-------------|----------------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 134 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.25938 | 0.18 | 45.62 | 45.18 | 45.80 | 45.36 | 61.45 | 51.45 | -15.65 | -6.09 |
| 2 | 0.51328 | 0.21 | 45.31 | 39.83 | 45.52 | 40.04 | 56.00 | 46.00 | -10.48 | -5.96 |
| 3 | 0.77109 | 0.22 | 33.25 | 31.07 | 33.47 | 31.29 | 56.00 | 46.00 | -22.53 | -14.71 |
| 4 | 1.02344 | 0.23 | 32.05 | 28.86 | 32.28 | 29.09 | 56.00 | 46.00 | -23.72 | -16.91 |
| 5 | 1.28125 | 0.25 | 29.85 | 27.21 | 30.10 | 27.46 | 56.00 | 46.00 | -25.90 | -18.54 |
| 6 | 1.53906 | 0.27 | 30.13 | 26.57 | 30.40 | 26.84 | 56.00 | 46.00 | -25.60 | -19.16 |

- 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.



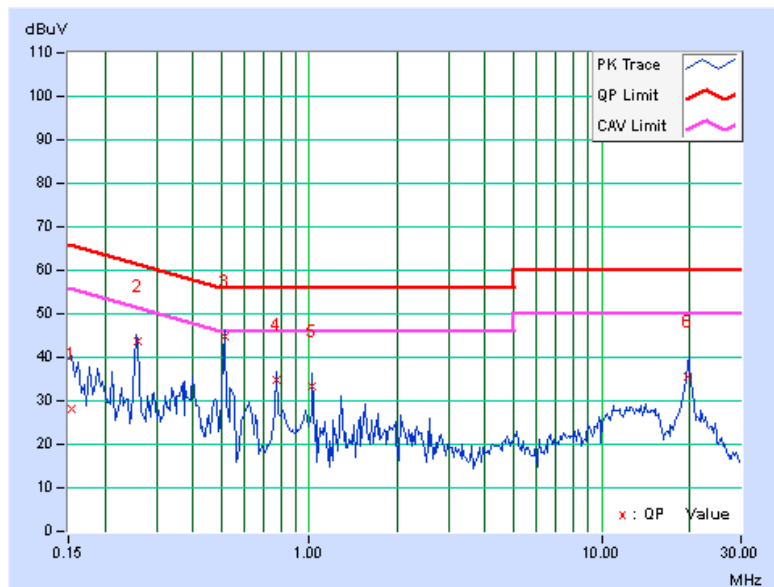


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| | | | |
|---------|-------------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
| CHANNEL | Channel 134 | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15391 | 0.17 | 28.15 | 21.57 | 28.32 | 21.74 | 65.79 | 55.79 | -37.47 | -34.05 |
| 2 | 0.25938 | 0.16 | 43.57 | 43.01 | 43.73 | 43.17 | 61.45 | 51.45 | -17.72 | -8.28 |
| 3 | 0.51328 | 0.18 | 44.76 | 39.97 | 44.94 | 40.15 | 56.00 | 46.00 | -11.06 | -5.85 |
| 4 | 0.77109 | 0.19 | 34.55 | 32.73 | 34.74 | 32.92 | 56.00 | 46.00 | -21.26 | -13.08 |
| 5 | 1.02488 | 0.19 | 33.05 | 30.43 | 33.24 | 30.62 | 56.00 | 46.00 | -22.76 | -15.38 |
| 6 | 19.62109 | 0.81 | 34.57 | 28.64 | 35.38 | 29.45 | 60.00 | 50.00 | -24.62 | -20.55 |

- 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 PEAK TRANSMIT POWER MEASUREMENT

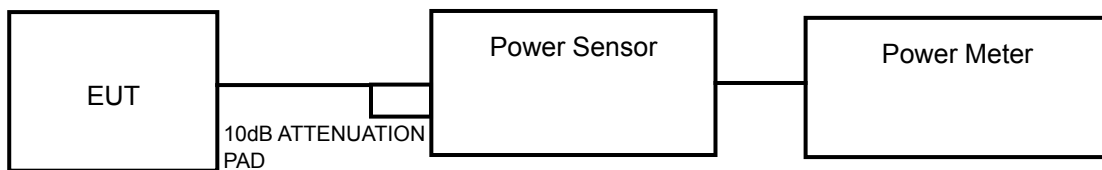
4.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

| FREQUENCY BAND | LIMIT |
|------------------|---|
| 5.250 ~ 5.350GHz | The lesser of 250mW (24dBm) or 11dBm + 10logB |
| 5.470 ~ 5.725GHz | The lesser of 250mW (24dBm) or 11dBm + 10logB |

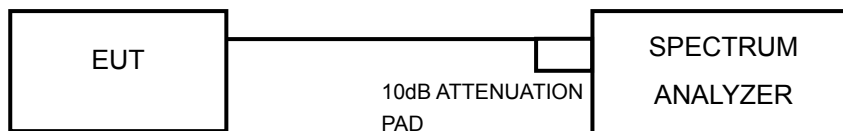
NOTE: Where B is the 26dB emission bandwidth in MHz.

4.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



FOR 26dB BANDWIDTH



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.3.4 TEST PROCEDURE

FOR AVERAGE POWER MEASUREMENT

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

FOR 26dB BANDWIDTH

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

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 specific channel frequencies individually.

4.3.7 TEST RESULTS

POWER OUTPUT: 802.11a

| CHANNEL | CHANNEL FREQUENCY (MHz) | AVERAGE POWER (mW) | AVERAGE POWER (dBm) | POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|--------------------|---------------------|-------------------|-----------|
| 52 | 5260 | 144.9 | 21.61 | 24 | PASS |
| 60 | 5300 | 141.6 | 21.51 | 24 | PASS |
| 64 | 5320 | 145.5 | 21.63 | 24 | PASS |
| 100 | 5500 | 130.9 | 21.17 | 24 | PASS |
| 116 | 5580 | 154.5 | 21.89 | 24 | PASS |
| 140 | 5700 | 147.2 | 21.68 | 24 | PASS |

802.11n (20MHz)

| CHAN. | CHAN. FREQ. (MHz) | AVERAGE POWER (dBm) | | TOTAL POWER (mW) | TOTAL POWER (dBm) | POWER LIMIT (dBm) | PASS / FAIL |
|-------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | CHAIN 0 | CHAIN 1 | | | | |
| 52 | 5260 | 18.31 | 18.71 | 142.1 | 21.5 | 24 | PASS |
| 60 | 5300 | 18.52 | 18.55 | 142.7 | 21.5 | 24 | PASS |
| 64 | 5320 | 18.88 | 18.84 | 153.8 | 21.9 | 24 | PASS |
| 100 | 5500 | 18.71 | 18.74 | 149.1 | 21.7 | 24 | PASS |
| 116 | 5580 | 18.62 | 18.34 | 141.0 | 21.5 | 24 | PASS |
| 140 | 5700 | 18.43 | 18.67 | 143.3 | 21.6 | 24 | PASS |

802.11n (40MHz)

| CHAN. | CHAN. FREQ. (MHz) | AVERAGE POWER (dBm) | | TOTAL POWER (MW) | TOTAL POWER (DBM) | POWER LIMIT (dBm) | PASS / FAIL |
|-------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | CHAIN 0 | CHAIN 1 | | | | |
| 54 | 5270 | 20.51 | 20.68 | 229.4 | 23.6 | 24 | PASS |
| 62 | 5310 | 18.64 | 18.39 | 142.1 | 21.5 | 24 | PASS |
| 102 | 5510 | 17.06 | 17.01 | 101.1 | 20.0 | 24 | PASS |
| 110 | 5550 | 18.48 | 18.41 | 139.8 | 21.5 | 24 | PASS |
| 134 | 5670 | 20.94 | 20.64 | 240.0 | 23.8 | 24 | PASS |



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26dB BANDWIDTH: 802.11a

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (dBm) | PASS / FAIL |
|---------|-------------------------|-----------------------|-------------|
| 52 | 5260 | 24.64 | PASS |
| 60 | 5300 | 22.59 | PASS |
| 64 | 5320 | 22.57 | PASS |
| 100 | 5500 | 22.48 | PASS |
| 116 | 5580 | 23.58 | PASS |
| 140 | 5700 | 22.52 | PASS |

802.11n (20MHz)

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (dBm) | | PASS / FAIL |
|---------|-------------------------|-----------------------|---------|-------------|
| | | CHAIN 0 | CHAIN 1 | |
| 52 | 5260 | 20.52 | 20.48 | PASS |
| 60 | 5300 | 20.42 | 20.42 | PASS |
| 64 | 5320 | 20.49 | 20.53 | PASS |
| 100 | 5500 | 20.49 | 20.39 | PASS |
| 116 | 5580 | 20.46 | 20.61 | PASS |
| 140 | 5700 | 20.48 | 20.78 | PASS |

802.11n (40MHz)

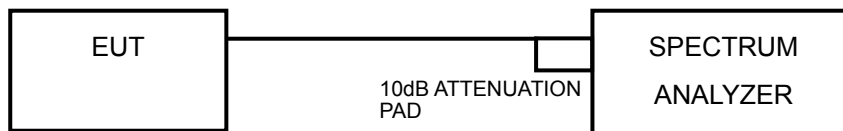
| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (dBm) | | PASS / FAIL |
|---------|-------------------------|-----------------------|---------|-------------|
| | | CHAIN 0 | CHAIN 1 | |
| 54 | 5270 | 41.62 | 41.54 | PASS |
| 62 | 5310 | 41.50 | 41.39 | PASS |
| 102 | 5510 | 41.39 | 41.45 | PASS |
| 110 | 5550 | 41.64 | 41.42 | PASS |
| 134 | 5670 | 41.61 | 41.66 | PASS |

4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

| FREQUENCY BAND | LIMIT |
|------------------|-------|
| 5.250 ~ 5.350GHz | 11dBm |
| 5.470 ~ 5.725GHz | 11dBm |

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.4.4 TEST PROCEDURES

Using method SA-1

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- 3) Sweep time = auto, trigger set to "free run".
- 4) Trace average at least 100 traces in power averaging mode.
- 5) Record the max value

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

Same as 4.3.6.

4.4.7 TEST RESULTS

802.11a

| CHANNEL | FREQUENCY (MHz) | PSD (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---------|-----------------|-----------|---------------------|-----------|
| 52 | 5260 | 10.74 | 11 | PASS |
| 60 | 5300 | 10.46 | 11 | PASS |
| 64 | 5320 | 10.54 | 11 | PASS |
| 100 | 5500 | 10.35 | 11 | PASS |
| 116 | 5580 | 10.64 | 11 | PASS |
| 140 | 5700 | 10.21 | 11 | PASS |

802.11n (20MHz)

| CHAN. | CHAN. FREQ. (MHz) | PSD (dBm) | | TOTAL POWER DENSITY (dBm) | MAX. LIMIT (dBm) | PASS / FAIL |
|-------|-------------------|-----------|---------|---------------------------|------------------|-------------|
| | | CHAIN 0 | CHAIN 1 | | | |
| 52 | 5260 | 7.89 | 7.51 | 10.685 | 11 | PASS |
| 60 | 5300 | 7.41 | 7.24 | 10.292 | 11 | PASS |
| 64 | 5320 | 7.90 | 7.66 | 10.733 | 11 | PASS |
| 100 | 5500 | 7.13 | 7.06 | 10.071 | 11 | PASS |
| 116 | 5580 | 7.14 | 7.55 | 10.336 | 11 | PASS |
| 140 | 5700 | 7.34 | 7.59 | 10.479 | 11 | PASS |

NOTE: Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

802.11n (40MHz)

| CHAN. | CHAN. FREQ. (MHz) | PSD (dBm) | | TOTAL POWER DENSITY (dBm) | MAX. LIMIT (dBm) | PASS / FAIL |
|-------|-------------------|-----------|---------|---------------------------|------------------|-------------|
| | | CHAIN 0 | CHAIN 1 | | | |
| 54 | 5270 | 5.86 | 5.81 | 8.705 | 11 | PASS |
| 62 | 5310 | 3.84 | 3.55 | 6.689 | 11 | PASS |
| 102 | 5510 | 2.42 | 2.07 | 5.238 | 11 | PASS |
| 110 | 5550 | 3.75 | 3.54 | 6.636 | 11 | PASS |
| 134 | 5670 | 6.24 | 5.69 | 8.982 | 11 | PASS |

NOTE: Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

4.5 PEAK POWER EXCURSION MEASUREMENT

4.5.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Shall not exceed 13 dB.

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.5.4 TEST PROCEDURE

1. Set RBW = 1 MHz, VBW = 3 MHz. Detector = peak.
2. Trace mode = max-hold. Allow the sweeps to continue until the trace stabilizes.
3. Use the peak search function to find the peak of the spectrum.
4. Use section 4.4.4 to measure the PPSD.
5. Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITIONS

Same as 4.2.6

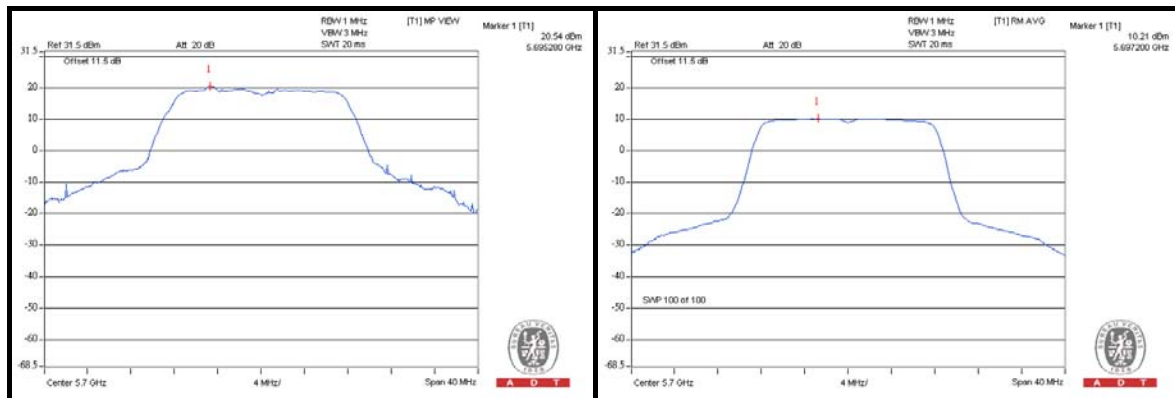


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4.5.7 TEST RESULTS

802.11a

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK VALUE (dBm) | PPSD (dBm) | PEAK EXCURSION (dB) | LIMIT (dB) | PASS/FAIL |
|---------|-------------------------|------------------|------------|---------------------|------------|-----------|
| 52 | 5260 | 20.38 | 10.74 | 9.64 | 13 | PASS |
| 60 | 5300 | 20.37 | 10.46 | 9.91 | 13 | PASS |
| 64 | 5320 | 20.37 | 10.54 | 9.83 | 13 | PASS |
| 100 | 5500 | 19.78 | 10.35 | 9.43 | 13 | PASS |
| 116 | 5580 | 20.57 | 10.64 | 9.93 | 13 | PASS |
| 140 | 5700 | 20.54 | 10.21 | 10.33 | 13 | PASS |

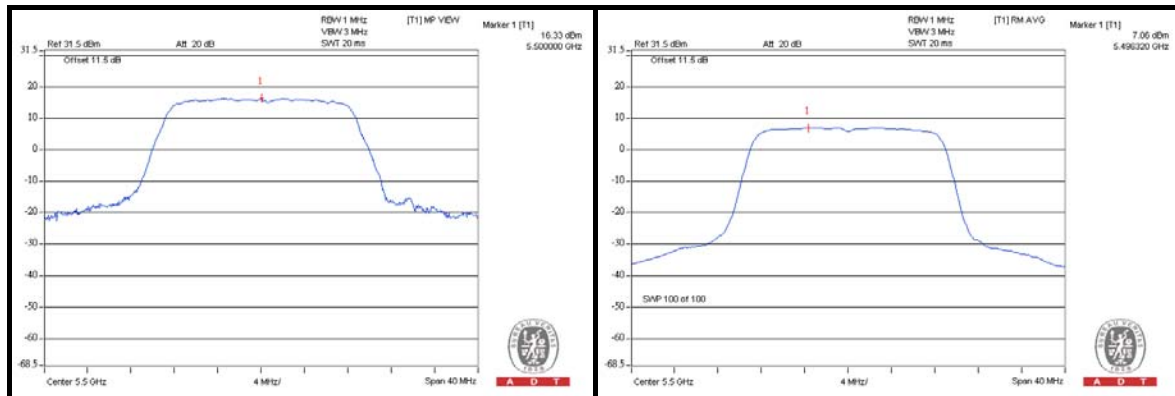




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802.11n (20MHz)

| CHAN. | CHAN. FREQ. (MHz) | PEAK VALUE (dBm) | | PPSD (dBm) | | PEAK EXCURSION (dB) | | LIMIT (dB) | PASS/FAIL |
|-------|-------------------|------------------|---------|------------|---------|---------------------|---------|------------|-----------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 0 | CHAIN 1 | CHAIN 0 | CHAIN 1 | | |
| 52 | 5260 | 15.31 | 16.38 | 7.89 | 7.51 | 7.42 | 8.87 | 13 | PASS |
| 60 | 5300 | 15.36 | 16.08 | 7.41 | 7.24 | 7.95 | 8.84 | 13 | PASS |
| 64 | 5320 | 15.75 | 16.67 | 7.90 | 7.66 | 7.85 | 9.01 | 13 | PASS |
| 100 | 5500 | 15.85 | 16.33 | 7.13 | 7.06 | 8.72 | 9.27 | 13 | PASS |
| 116 | 5580 | 15.62 | 16.16 | 7.14 | 7.55 | 8.48 | 8.61 | 13 | PASS |
| 140 | 5700 | 15.54 | 16.51 | 7.34 | 7.59 | 8.20 | 8.92 | 13 | PASS |

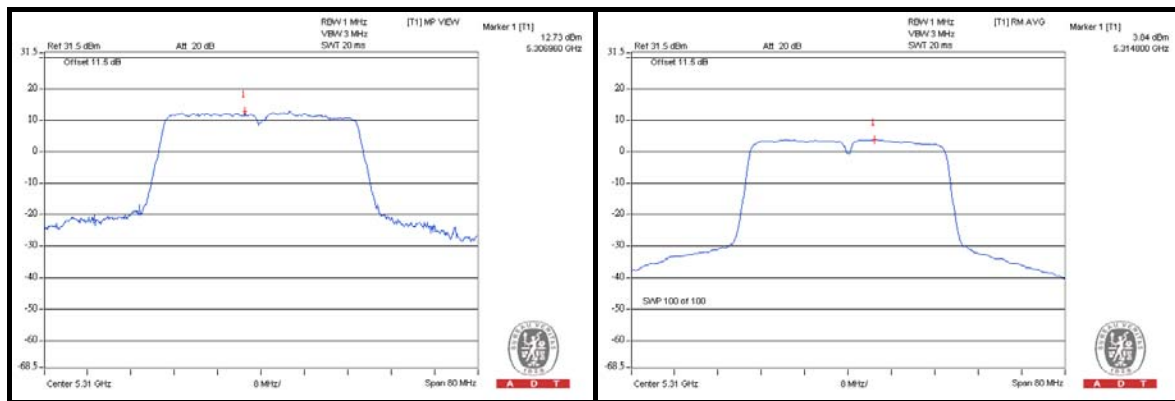




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802.11n (40MHz)

| CHAN. | CHAN. FREQ. (MHz) | PEAK VALUE (dBm) | | PPSD (dBm) | | PEAK EXCURSION (dB) | | LIMIT (dB) | PASS/ FAIL |
|-------|-------------------|------------------|---------|------------|---------|---------------------|---------|------------|------------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 0 | CHAIN 1 | CHAIN 0 | CHAIN 1 | | |
| 54 | 5270 | 14.46 | 14.62 | 5.86 | 5.81 | 8.60 | 8.81 | 13 | PASS |
| 62 | 5310 | 12.73 | 12.42 | 3.84 | 3.55 | 8.89 | 8.87 | 13 | PASS |
| 102 | 5510 | 10.82 | 10.85 | 2.42 | 2.07 | 8.40 | 8.78 | 13 | PASS |
| 110 | 5550 | 12.41 | 12.22 | 3.75 | 3.54 | 8.66 | 8.68 | 13 | PASS |
| 134 | 5670 | 14.87 | 14.43 | 6.24 | 5.69 | 8.63 | 8.74 | 13 | PASS |

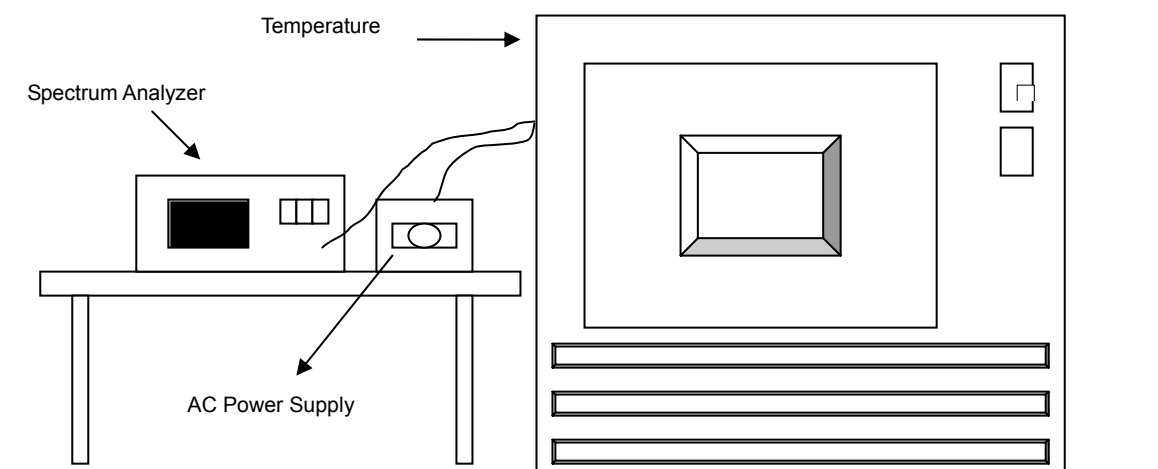


4.6 FREQUENCY STABILITY

4.6.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency of the carrier signal shall be maintained within band of operation

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.6.4 TEST PROCEDURE

- a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

4.6.6 EUT OPERATING CONDITION

Set the EUT transmit at un-modulation mode to test frequency stability.

4.6.7 TEST RESULTS

| FREQUENCY STABILITY VERSUS TEMP. | | | | | | | | | |
|----------------------------------|--------------------------|--------------------------------|-----------------------------|--------------------------------|-----------------------------|--------------------------------|-----------------------------|--------------------------------|-----------------------------|
| OPERATING FREQUENCY: 5320MHz | | | | | | | | | |
| TEMP. (°C) | POWER SUPPLY (Vac) | 0 MINUTE | | 2 MINUTE | | 5 MINUTE | | 10 MINUTE | |
| | | Measured Frequency (MHz) | Frequency Drift (ppm) | Measured Frequency (MHz) | Frequency Drift (ppm) | Measured Frequency (MHz) | Frequency Drift (ppm) | Measured Frequency (MHz) | Frequency Drift (ppm) |
| 55 | 110.0 | 5320.008612 | 1.619 | 5320.008307 | 1.561 | 5320.008711 | 1.637 | 5320.008076 | 1.518 |
| 50 | 110.0 | 5320.008939 | 1.680 | 5320.008696 | 1.635 | 5320.009074 | 1.706 | 5320.008683 | 1.632 |
| 40 | 110.0 | 5320.009856 | 1.853 | 5320.009765 | 1.836 | 5320.009813 | 1.845 | 5320.009804 | 1.843 |
| 30 | 110.0 | 5320.010857 | 2.041 | 5320.011172 | 2.100 | 5320.011194 | 2.104 | 5320.011258 | 2.116 |
| 20 | 110.0 | 5320.013222 | 2.485 | 5320.012569 | 2.363 | 5320.012796 | 2.405 | 5320.013165 | 2.475 |
| 10 | 110.0 | 5320.011853 | 2.228 | 5320.011942 | 2.245 | 5320.011597 | 2.180 | 5320.011597 | 2.180 |
| 0 | 110.0 | 5320.010460 | 1.966 | 5320.010032 | 1.886 | 5320.009895 | 1.860 | 5320.009747 | 1.832 |
| -10 | 110.0 | 5320.008700 | 1.635 | 5320.008467 | 1.592 | 5320.008732 | 1.641 | 5320.008977 | 1.687 |
| -20 | 110.0 | 5320.008910 | 1.675 | 5320.008712 | 1.638 | 5320.008551 | 1.607 | 5320.008645 | 1.625 |
| -30 | 110.0 | 5320.008804 | 1.655 | 5320.008510 | 1.600 | 5320.008750 | 1.645 | 5320.008972 | 1.686 |

| FREQUENCY STABILITY VERSUS VOLTAGE | | | | | | | | | |
|------------------------------------|--------------------------|--------------------------------|-----------------------------|--------------------------------|-----------------------------|--------------------------------|-----------------------------|--------------------------------|-----------------------------|
| OPERATING FREQUENCY: 5320MHz | | | | | | | | | |
| TEMP. (°C) | POWER SUPPLY (Vac) | 0 MINUTE | | 2 MINUTE | | 5 MINUTE | | 10 MINUTE | |
| | | Measured Frequency (MHz) | Frequency Drift (ppm) | Measured Frequency (MHz) | Frequency Drift (ppm) | Measured Frequency (MHz) | Frequency Drift (ppm) | Measured Frequency (MHz) | Frequency Drift (ppm) |
| 20 | 93.5 | 5320.009504 | 1.786 | 5320.009824 | 1.847 | 5320.009673 | 1.818 | 5320.009943 | 1.869 |
| | 110.0 | 5320.013222 | 2.485 | 5320.012569 | 2.363 | 5320.012796 | 2.405 | 5320.013165 | 2.475 |
| | 126.5 | 5320.013108 | 2.464 | 5320.012721 | 2.391 | 5320.013072 | 2.457 | 5320.012935 | 2.431 |

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.

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

No modifications were made to the EUT by the lab during the test.

---END---