
FCC Test Report

Report No.: AGC00901130702FE04

FCC ID : 2AAQHB7120L

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Tablet PC

BRAND NAME : AOC

MODEL NAME : B7120LN,S70A11-0N,MID-704,B7100LN,B7120LW,
B7120LR,B7120LP,B7120LB,S70A11-0P,S70A11-0B,
S70A11-0R,S70A11-0W,B7100LP,B7100LB,B7100LW,B7100LR
S70A10-0N,S70A10-0R,S70A10-0P,S70A10-0B

CLIENT : AAPPAA TECHNOLOGY(HK) LIMITED

DATE OF ISSUE : Aug.13,2013

STANDARD(S) : FCC Part 15 Rules

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|-------------|---------------|-----------------|
| V1.0 | / | Aug.13,2013 | Valid | Original Report |

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY 5

2. GENERAL INFORMATION 6

2.1. PRODUCT DESCRIPTION 6

2.2. TABLE OF CARRIER FREQUENCYS 6

2.3. IEEE 802.11N MODULATION SCHEME 7

2.4. RELATED SUBMITTAL(S) / GRANT (S) 7

2.5. TEST METHODOLOGY 7

2.6. SPECIAL ACCESSORIES 7

2.7. EQUIPMENT MODIFICATIONS 7

3. MEASUREMENT UNCERTAINTY 8

4. DESCRIPTION OF TEST MODES 8

5. SYSTEM TEST CONFIGURATION 9

5.1. CONFIGURATION OF EUT SYSTEM 9

5.2. EQUIPMENT USED IN EUT SYSTEM 9

5.3. SUMMARY OF TEST RESULTS 9

6. TEST FACILITY 10

7. PEAK OUTPUT POWER 11

7.1. MEASUREMENT PROCEDURE 11

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) 11

7.3. LIMITS AND MEASUREMENT RESULT 12

8. 6DB BANDWIDTH 14

8.1. MEASUREMENT PROCEDURE 14

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) 14

8.3. LIMITS AND MEASUREMENT RESULTS 15

9. CONDUCTED SPURIOUS EMISSION 25

9.1. MEASUREMENT PROCEDURE 25

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) 25

9.3. MEASUREMENT EQUIPMENT USED 25

9.4. LIMITS AND MEASUREMENT RESULT 25

10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY 28

10.1 MEASUREMENT PROCEDURE 28

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) 28

10.3 MEASUREMENT EQUIPMENT USED 28

10.4 LIMITS AND MEASUREMENT RESULT 28

11. RADIATED EMISSION 38

11.1. MEASUREMENT PROCEDURE 38

11.2. TEST SETUP 39

11.3. LIMITS AND MEASUREMENT RESULT 40

11.4. TEST RESULT 40

12. BAND EDGE EMISSION 49

12.1. MEASUREMENT PROCEDURE..... 49

12.2. TEST SET-UP..... 49

12.3. TEST RESULT 50

13. FCC LINE CONDUCTED EMISSION TEST 58

13.1. LIMITS OF LINE CONDUCTED EMISSION TEST 58

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST 58

13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST 59

13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST 59

13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST 60

APPENDIX A: PHOTOGRAPHS OF TEST SETUP 62

APPENDIX B: PHOTOGRAPHS OF EUT 64

1. VERIFICATION OF CONFORMITY

| | |
|---------------------------------|---|
| Applicant | AAPPAA TECHNOLOGY(HK) LIMITED |
| Address | 4F, BUILDING 5 SANWEIHUAFENG 1ST TECH PARK, XIXIANG, BAO'AN, SHENZHEN |
| Manufacturer | AAPPAA TECHNOLOGY(HK) LIMITED |
| Address | 4F, BUILDING 5 SANWEIHUAFENG 1ST TECH PARK, XIXIANG, BAO'AN, SHENZHEN |
| Product Designation | Tablet PC |
| Brand Name | AOC |
| Test Model | B7120LN |
| Series Model | S70A11-0N,MID-704,B7100LN,B7120LW,B7120LR, B7120LP,B7120LB,S70A11-0P,S70A11-0B,S70A11-0R, S70A11-0W,B7100LP,B7100LB,B7100LW,B7100LR, S70A10-0N,S70A10-0R,S70A10-0P,S70A10-0B |
| Difference description | All the same except for the model name. |
| Date of test | Aug.06~ Aug.13,2013 |
| Deviation | None |
| Condition of Test Sample | Normal |
| Report Template | AGCRT-US-BGN/RF (2013-03-01) |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Prepared By

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Aug.13,2013

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Aug.13,2013

Authorized By

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Aug.13,2013

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “Tablet PC”. It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

| | |
|----------------------------|---|
| Operation Frequency | 2.412 GHz~2.462GHz |
| Output Power | IEEE 802.11b:11.78dBm; IEEE 802.11g:10.89dBm; IEEE 802.11n(20):9.76dBm; IEEE 802.11n(40):7.46dBm |
| Modulation | DSSS(BPSK/QPSK/CCK);OFDM(16-QAM/64-QAM) |
| Number of channels | 11 |
| Hardware Version | N/A |
| Software Version | N/A |
| Antenna Designation | Integrated Antenna |
| Antenna Gain | 1.0dBi |
| Power Supply | DC3.7V by Built-in Li-ion Battery |

2.2. TABLE OF CARRIER FREQUENCIES

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| 2400~2483.5MHZ | 1 | 2412 MHZ |
| | 2 | 2417 MHZ |
| | 3 | 2422 MHZ |
| | 4 | 2427 MHZ |
| | 5 | 2432 MHZ |
| | 6 | 2437 MHZ |
| | 7 | 2442 MHZ |
| | 8 | 2447 MHZ |
| | 9 | 2452 MHZ |
| | 10 | 2457 MHZ |
| | 11 | 2462 MHZ |

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11
For 40MHZ bandwidth system use Channel 3 to Channel 9

2.3. IEEE 802.11N MODULATION SCHEME

| MCS Index | Nss | Modulation | R | NBPSC | Data rate(Mbps) | | |
|-----------|-----|------------|-----|-------|-----------------|-------|-------|
| | | | | | 800nsGI | | |
| | | | | | 20MHz | 20MHz | 20MHz |
| 0 | 1 | BPSK | 1/2 | 1 | 52 | 26 | 6.5 |
| 1 | 1 | QPSK | 1/2 | 2 | 104 | 52 | 13.0 |
| 2 | 1 | QPSK | 3/4 | 2 | 104 | 78 | 19.5 |
| 3 | 1 | 16-QAM | 1/2 | 4 | 208 | 104 | 26.0 |
| 4 | 1 | 16-QAM | 3/4 | 4 | 208 | 156 | 39.0 |
| 5 | 1 | 64-QAM | 2/3 | 6 | 312 | 208 | 52.0 |
| 6 | 1 | 64-QAM | 3/4 | 6 | 312 | 234 | 58.5 |
| 7 | 1 | 64-QAM | 5/6 | 6 | 312 | 260 | 65.0 |

| Symbol | Explanation |
|--------|---|
| NSS | Number of spatial streams |
| R | Code rate |
| NBPSC | Number of coded bits per single carrier |
| NCBPS | Number of coded bits per symbol |
| NDBPS | Number of data bits per symbol |
| GI | Guard interval |

2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AAQHB7120L** filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters. Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.247 rules.

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB

Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|-----|-----------------------|
| 1 | Low channel TX |
| 2 | Middle channel TX |
| 3 | High channel TX |
| 4 | Normal operating |

Note:

1. V means worst mode for Conducted Emission.
2. Transmit by 802.11b with Data rate (1/2/5.5/11)
Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54)
Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65)
Transmit by 802.11n (40MHz) with Data rate
(13.5/27/40.5/54/81/108/121.5/135)

Note:

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency individually.
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment | Mfr/Brand | Model/Type No. | Remark |
|------|-----------|-----------|----------------|-----------|
| 1 | Tablet PC | AOC | B7120LN | EUT |
| 2 | Battery | N/A | N/A | Accessory |
| 3 | Adapter | N/A | N/A | Accessory |
| 4 | Laptop | Dell | INSPIRON | A.E |

Note: All the accessories have been used during the test in conduction emission test.

5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|-----------|---|-----------|
| §15.247 | Peak Output Power | Compliant |
| §15.247 | 6 dB Bandwidth | Compliant |
| §15.247 | Conducted Spurious Emission | Compliant |
| §15.247 | Maximum Conducted Output Power SPECTRAL Density | Compliant |
| §15.209 | Radiated Emission | Compliant |
| §15.247 | Band Edges | Compliant |
| §15.207 | Line Conduction Emission | Compliant |

Note: The EUT received power from DC3.7V lithium battery.

6. TEST FACILITY

| | |
|--------------------|--|
| Site | Attestation of Global Compliance (Shenzhen) Co., Ltd |
| Location | 2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China |
| Description | The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003. |

ALL TEST EQUIPMENT LIST

| Description | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------|-------------------|-------------|------------|------------|------------|
| Power Probe | R&S | NRP-Z23 | 100323 | 07/17/2013 | 07/16/2014 |
| RF attenuator | N/A | RFA20db | 68 | N/A | N/A |
| Spectrum Analyzer | Agilent | E4440A | US41421290 | 07/17/2013 | 07/16/2014 |
| Amplifier | EM | EM30180 | 0607030 | 07/17/2013 | 07/16/2014 |
| Horn Antenna | EM | EM-AH-10180 | 67 | 04/21/2013 | 04/20/2014 |
| Horn Antenna | A.H. Systems Inc. | SAS-574 | -- | 07/17/2013 | 07/16/2014 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 100694 | 07/17/2013 | 07/16/2014 |
| Biological Antenna | A.H. Systems Inc. | SAS-521-4 | 26 | 06/07/2013 | 06/06/2014 |
| Loop Antenna | A.H. | SAS-526B | 264 | 07/14/2013 | 07/13/2014 |
| LISN | R&S | ESH3-Z5 | -- | 07/17/2013 | 07/16/2014 |

7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

For peak power test:

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, middle and the bottom operation frequency individually.
4. Set the RBW \geq DTS bandwidth, VBW \geq 3 x RBW, span \geq 3 x RBW, Sweep time = auto couple, Detector = peak, Trace mode = max hold, Allow trace to fully stabilize.
5. Use peak marker function to determine the peak amplitude level.

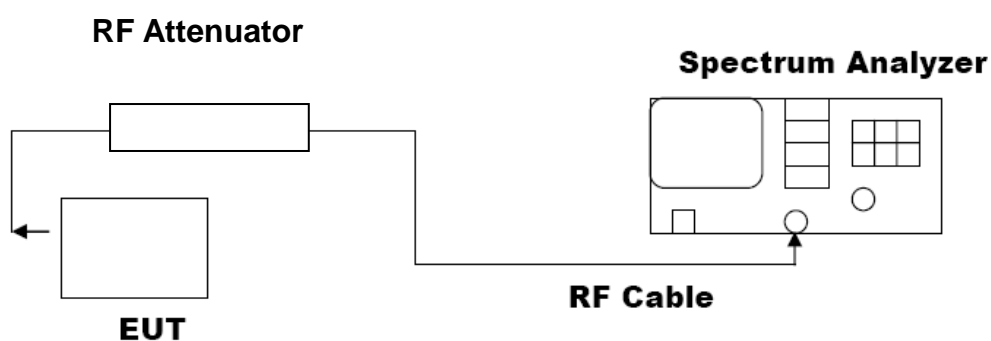
For average power test:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to power probe through an RF attenuator.
3. Connect the power probe to the PC.
4. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
5. Record the maximum power from the software.
6. The maximum peak power shall be less 1 Watt (30dBm).

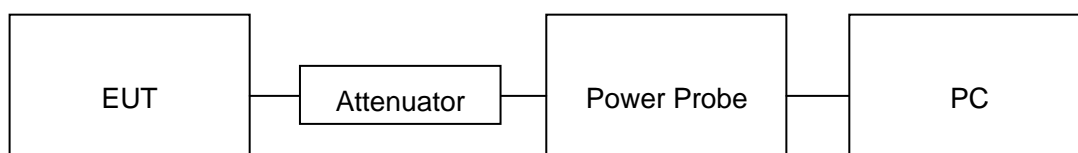
Note : The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



AVERAGE POWER SETUP



7.3. LIMITS AND MEASUREMENT RESULT

| | |
|------------------|--------------------------|
| TEST ITEM | PEAK POWER |
| TEST MODE | 802.11b with data rate 1 |

| LIMITS AND MEASUREMENT RESULT | | | | |
|-------------------------------|---------------------|------------------|-------------------------|--------------|
| Frequency (GHz) | Average Power (dBm) | Peak Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
| 2.412 | 9.85 | 11.78 | 30 | Pass |
| 2.437 | 9.76 | 11.69 | 30 | Pass |
| 2.462 | 9.61 | 11.56 | 30 | Pass |

| | |
|------------------|--------------------------|
| TEST ITEM | PEAK POWER |
| TEST MODE | 802.11g with data rate 6 |

| LIMITS AND MEASUREMENT RESULT | | | | |
|-------------------------------|---------------------|------------------|-------------------------|--------------|
| Frequency (GHz) | Average Power (dBm) | Peak Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
| 2.412 | 8.91 | 10.89 | 30 | Pass |
| 2.437 | 8.86 | 10.81 | 30 | Pass |
| 2.462 | 8.81 | 10.76 | 30 | Pass |

| | |
|------------------|-------------------------------|
| TEST ITEM | PEAK POWER |
| TEST MODE | 802.11n 20 with data rate 6.5 |

| LIMITS AND MEASUREMENT RESULT | | | | |
|-------------------------------|---------------------|------------------|-------------------------|--------------|
| Frequency (GHz) | Average Power (dBm) | Peak Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
| 2.412 | 7.81 | 9.76 | 30 | Pass |
| 2.437 | 7.71 | 9.67 | 30 | Pass |
| 2.462 | 7.66 | 9.61 | 30 | Pass |

| | |
|------------------|--------------------------------|
| TEST ITEM | PEAK POWER |
| TEST MODE | 802.11n 40 with data rate 13.5 |

| LIMITS AND MEASUREMENT RESULT | | | | |
|-------------------------------|------------------------|---------------------|----------------------------|--------------|
| Frequency (GHz) | Average Power (dBm) | Peak Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
| 2.422 | 5.55 | 7.49 | 30 | Pass |
| 2.437 | 5.41 | 7.35 | 30 | Pass |
| 2.452 | 5.37 | 7.32 | 30 | Pass |

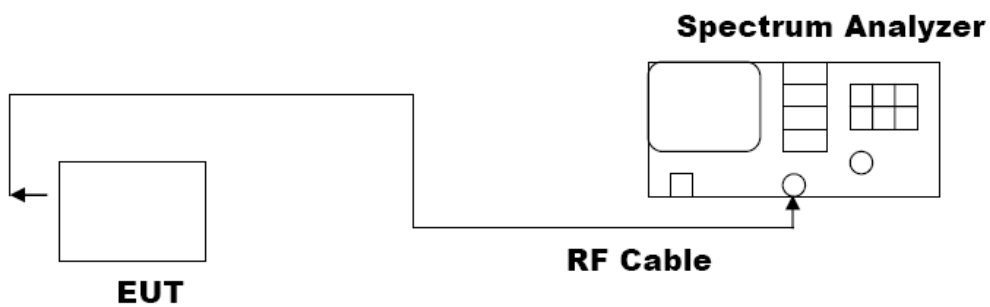
8. 6DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \geq RBW.
5. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



8.3. LIMITS AND MEASUREMENT RESULTS

| | |
|------------------|---------------------------|
| TEST ITEM | 6DB BANDWIDTH |
| TEST MODE | 802.11b with data rate 11 |

| LIMITS AND MEASUREMENT RESULT | | | |
|-------------------------------|-------------------|--------|----------|
| Applicable Limits | Applicable Limits | | |
| | Test Data (MHz) | | Criteria |
| >500KHZ | Low Channel | 10.112 | PASS |
| | Middle Channel | 10.081 | PASS |
| | High Channel | 10.038 | PASS |

| | |
|------------------|---------------------------|
| TEST ITEM | 6DB BANDWIDTH |
| TEST MODE | 802.11g with data rate 54 |

| LIMITS AND MEASUREMENT RESULT | | | |
|-------------------------------|-------------------|--------|----------|
| Applicable Limits | Applicable Limits | | |
| | Test Data (MHz) | | Criteria |
| >500KHZ | Low Channel | 16.003 | PASS |
| | Middle Channel | 16.323 | PASS |
| | High Channel | 14.391 | PASS |

| | |
|------------------|------------------------------|
| TEST ITEM | 6DB BANDWIDTH |
| TEST MODE | 802.11n 20 with data rate 65 |

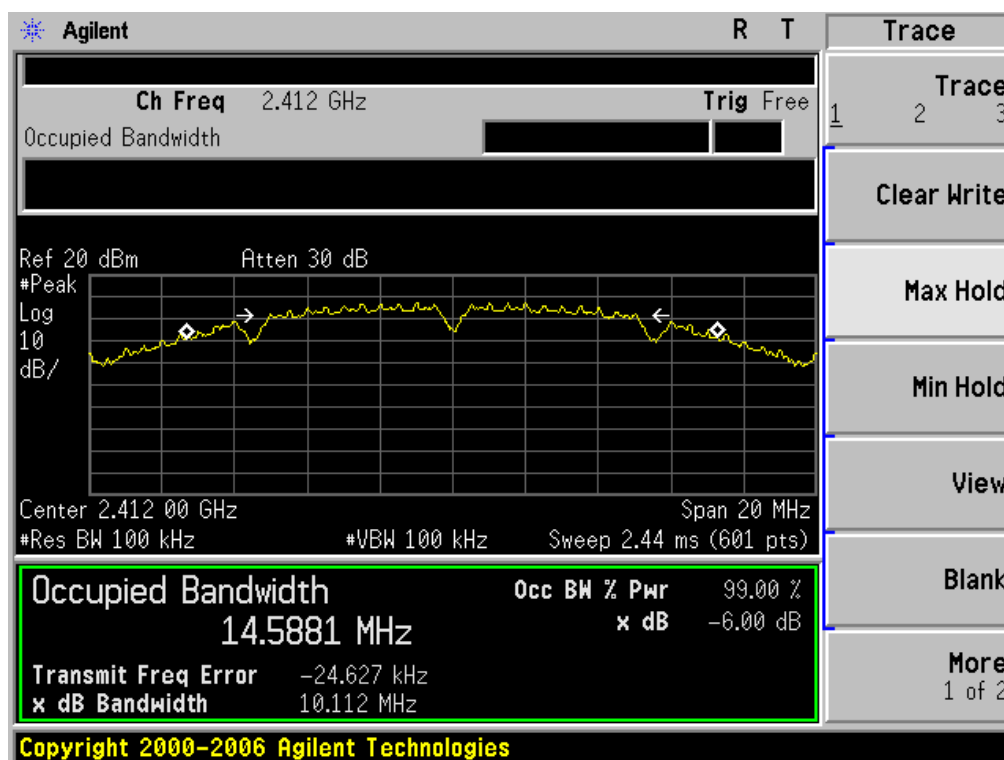
| LIMITS AND MEASUREMENT RESULT | | | |
|-------------------------------|-------------------|--------|----------|
| Applicable Limits | Applicable Limits | | |
| | Test Data (MHz) | | Criteria |
| >500KHZ | Low Channel | 17.586 | PASS |
| | Middle Channel | 17.280 | PASS |
| | High Channel | 16.325 | PASS |

| | |
|------------------|-------------------------------|
| TEST ITEM | 6DB BANDWIDTH |
| TEST MODE | 802.11n 40 with data rate 135 |

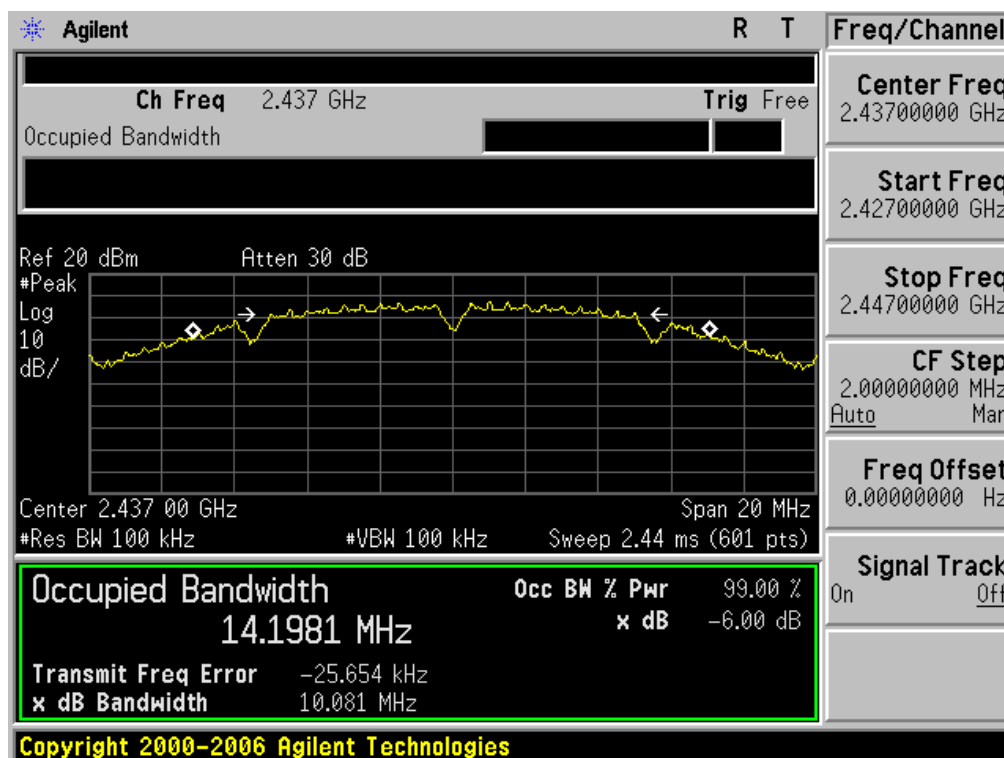
| LIMITS AND MEASUREMENT RESULT | | | |
|-------------------------------|-------------------|--------|----------|
| Applicable Limits | Applicable Limits | | |
| | Test Data (MHz) | | Criteria |
| >500KHZ | Low Channel | 35.191 | PASS |
| | Middle Channel | 35.142 | PASS |
| | High Channel | 35.183 | PASS |

802.11b TEST RESULT

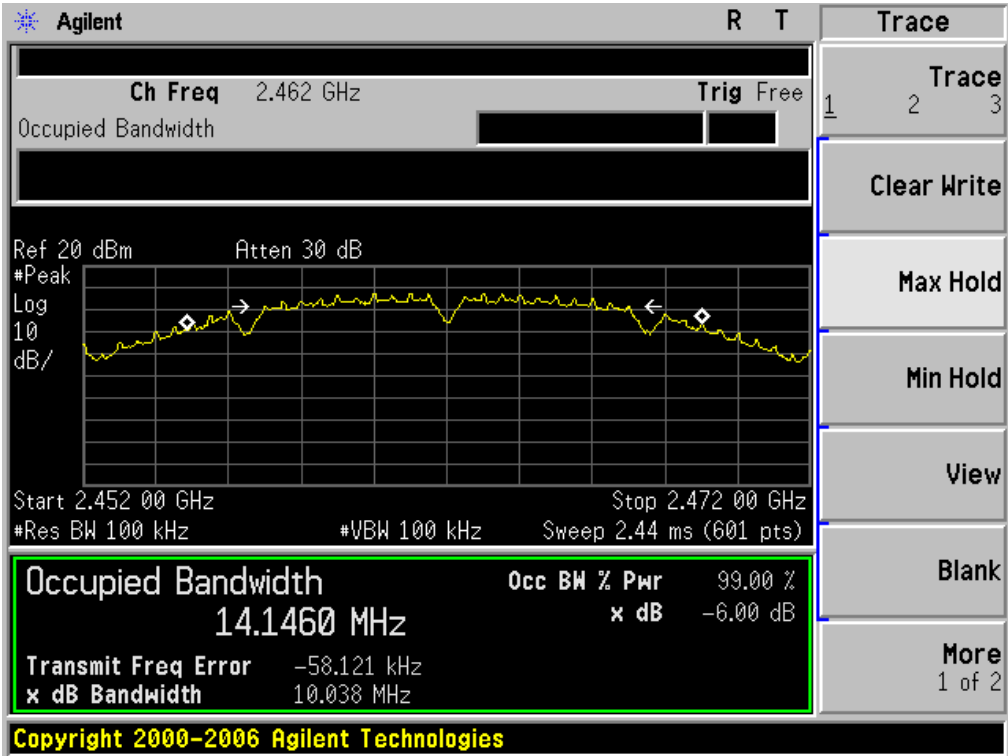
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

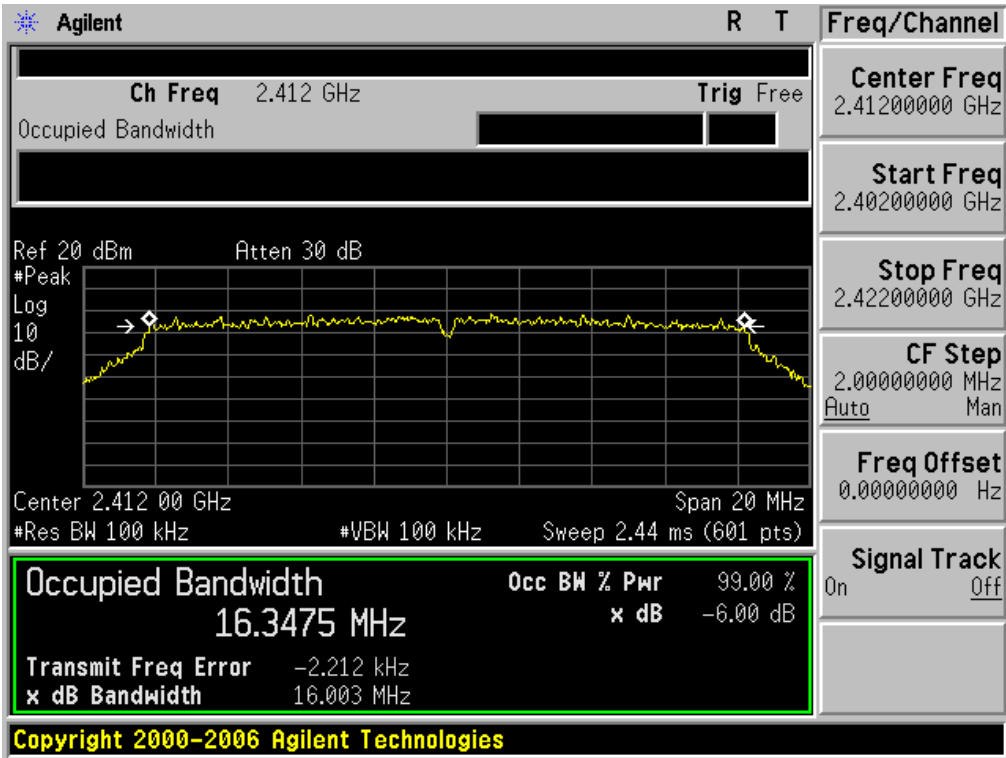


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

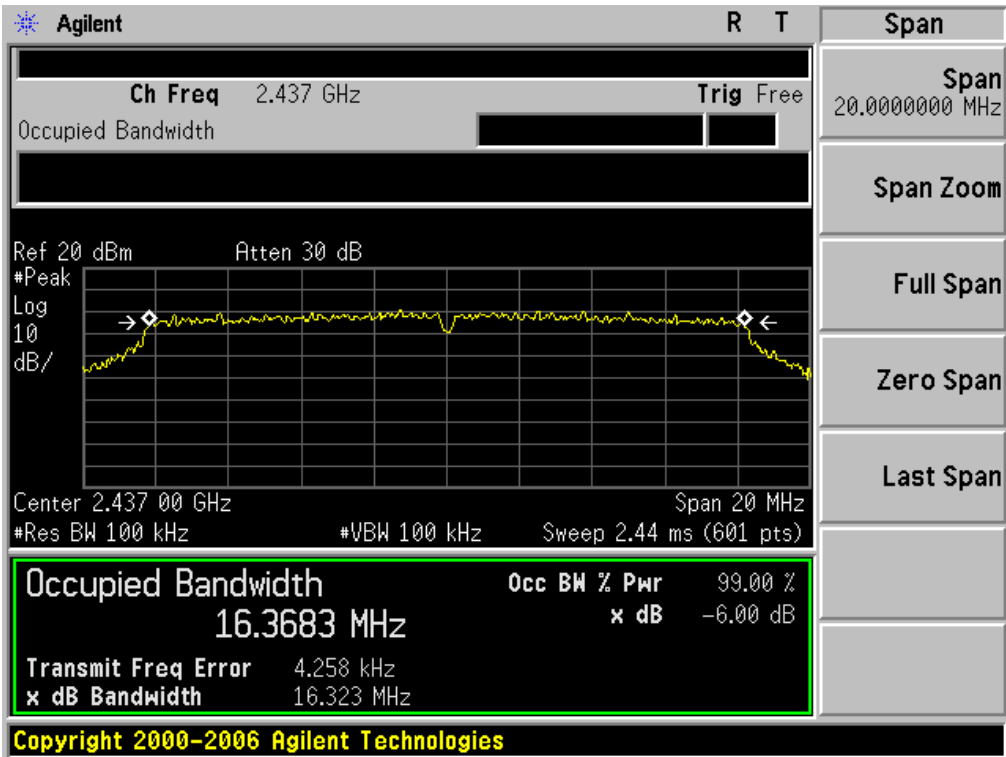


802.11g TEST RESULT

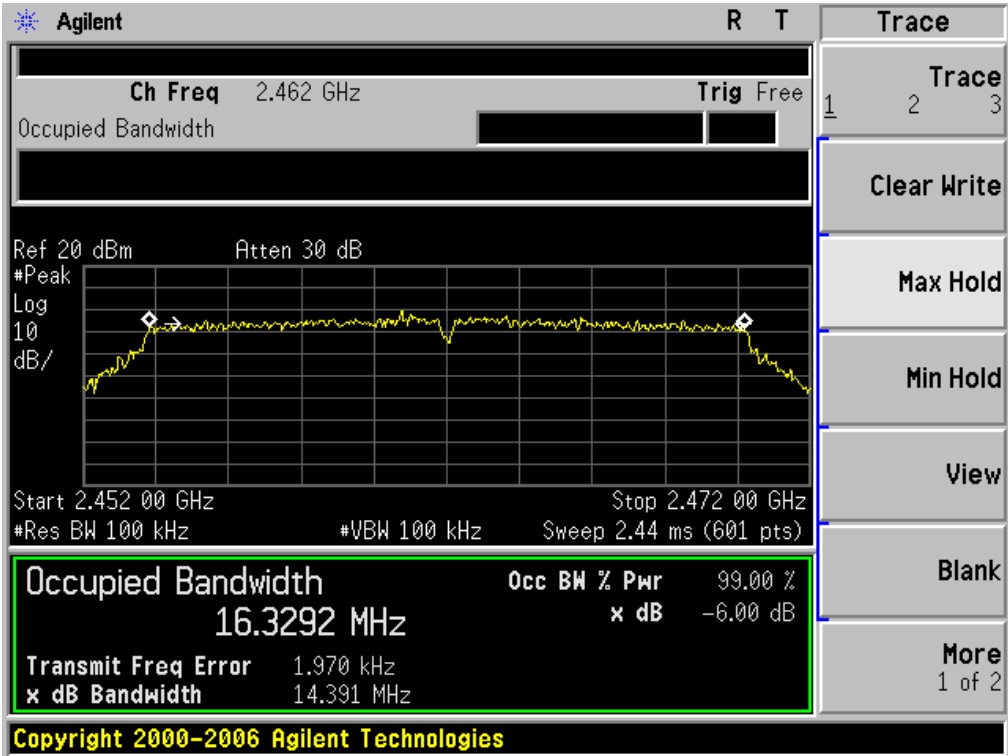
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

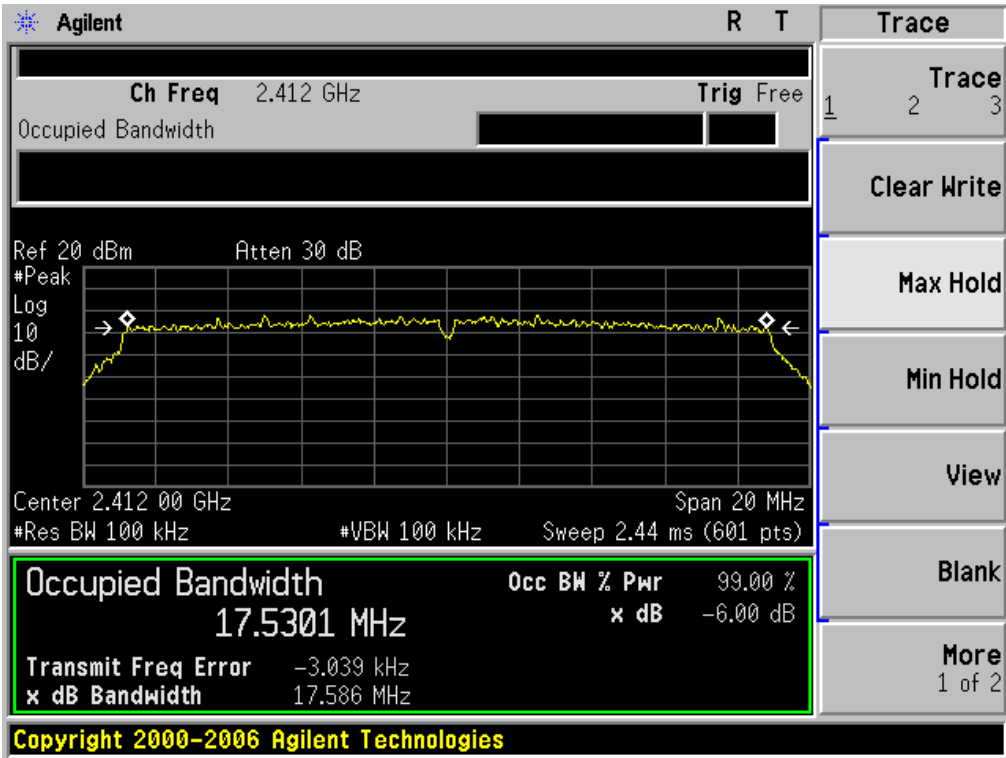


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

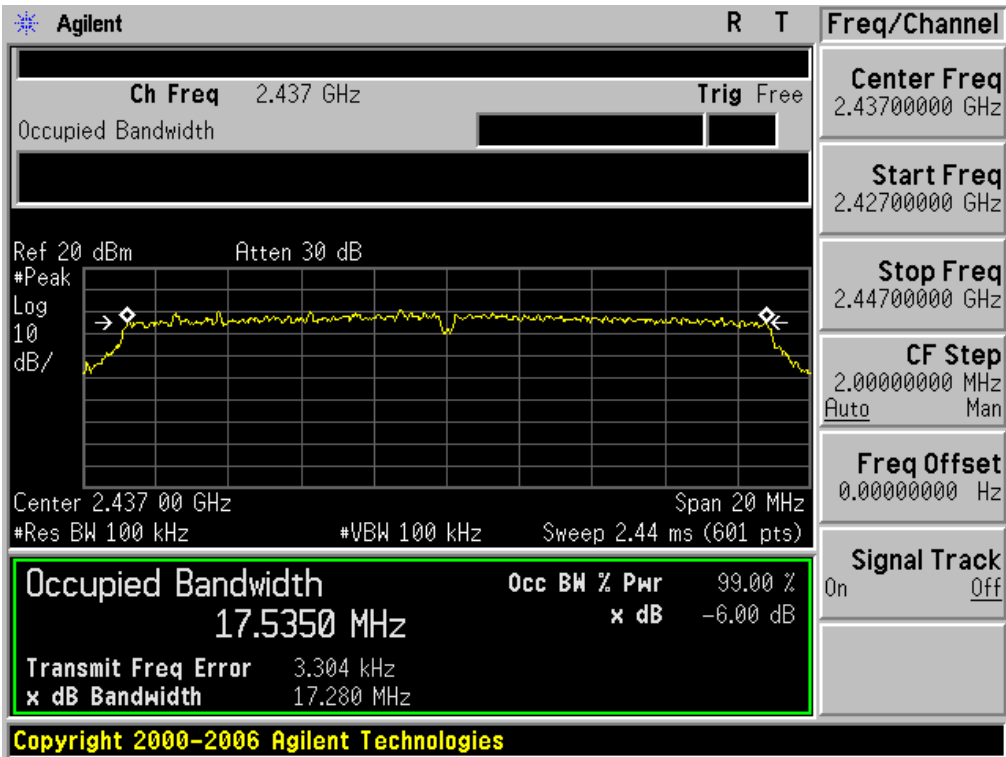


802.11n(20) TEST RESULT

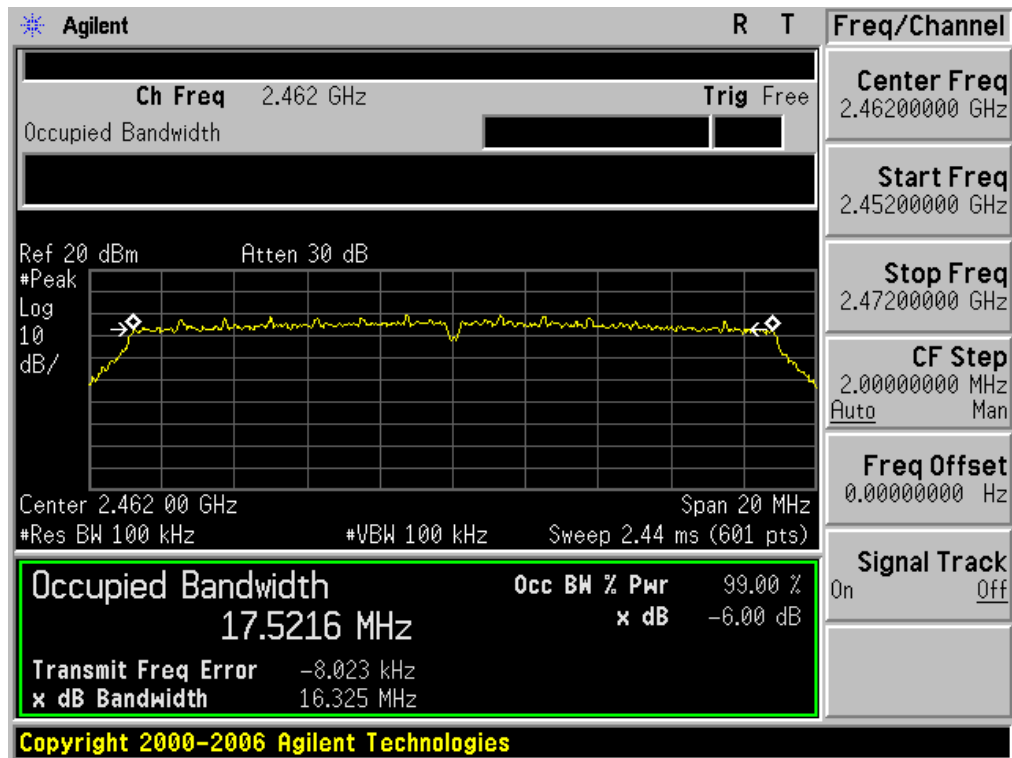
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



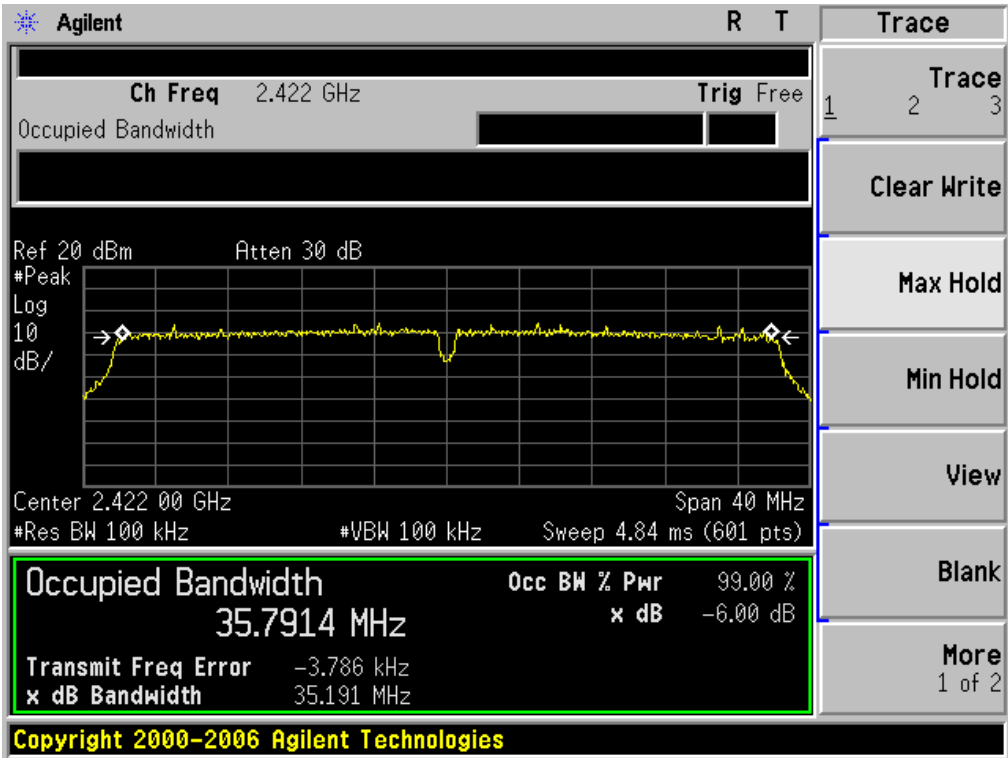
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



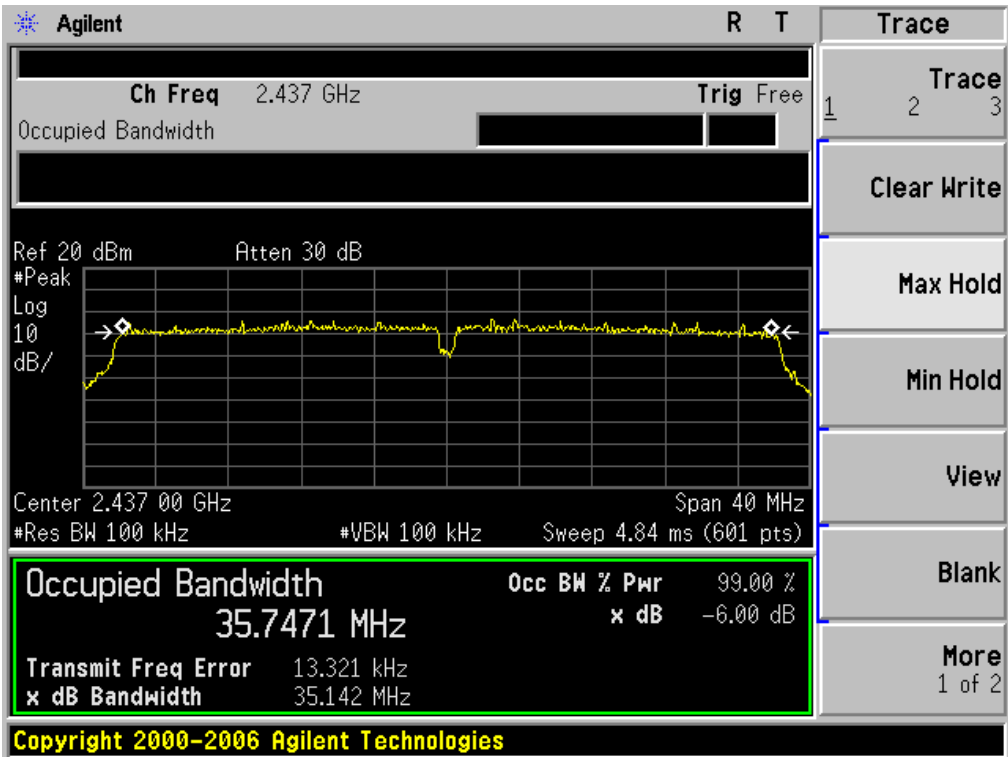
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



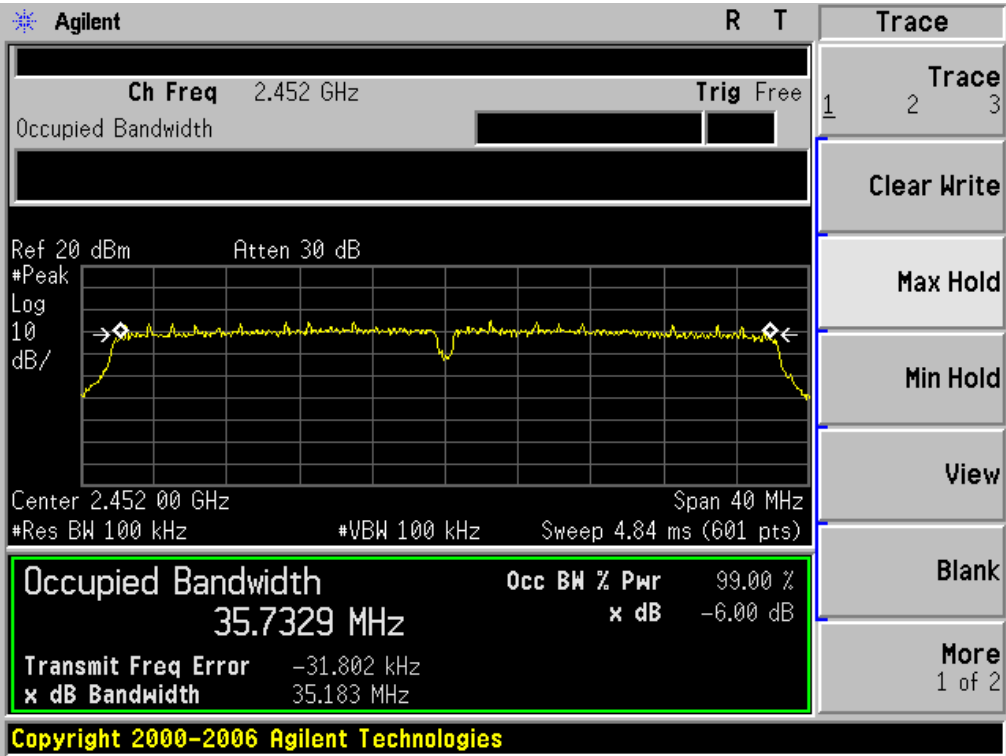
802.11n(40) TEST RESULT
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

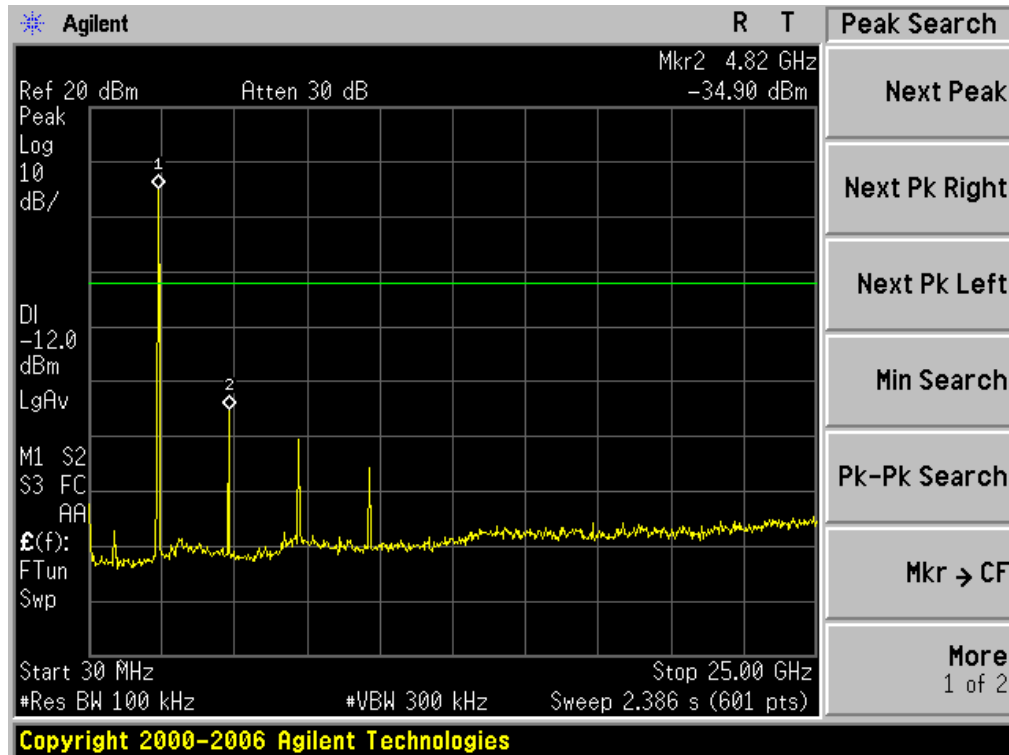
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

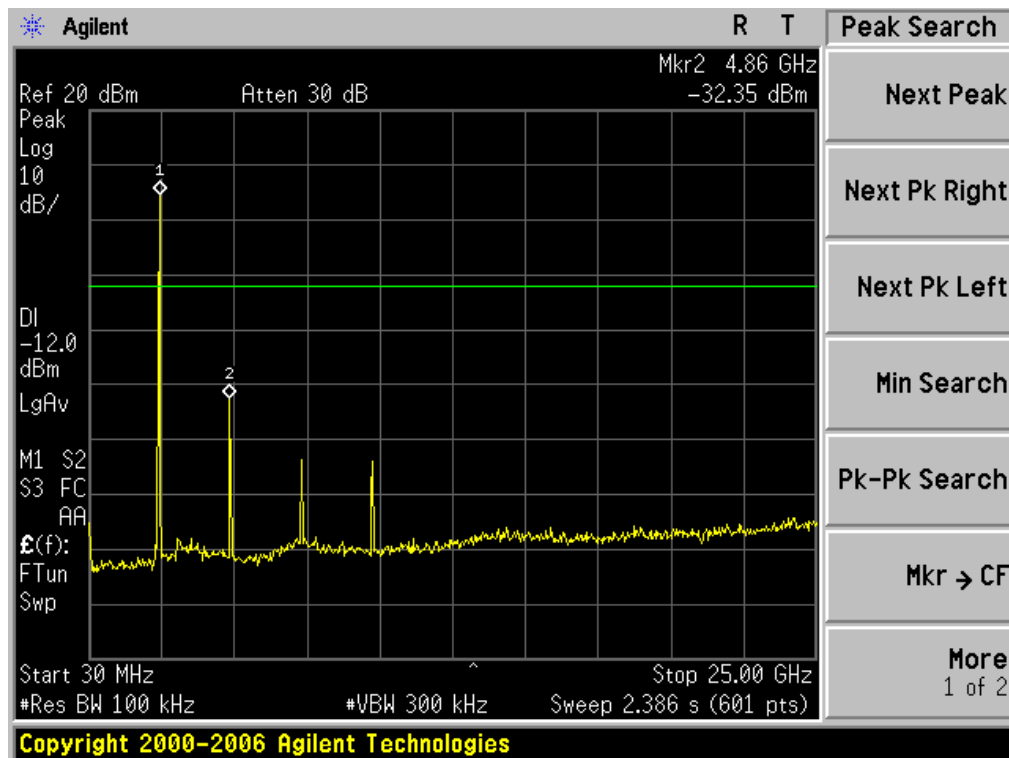
9.4. LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEASUREMENT RESULT | | |
|---|--|----------|
| Applicable Limits | Measurement Result | |
| | Test Data | Criteria |
| In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a)) | At least -20dBc than the limit Specified on the BOTTOM Channel | PASS |
| | At least -20dBc than the limit Specified on the TOP Channel | PASS |

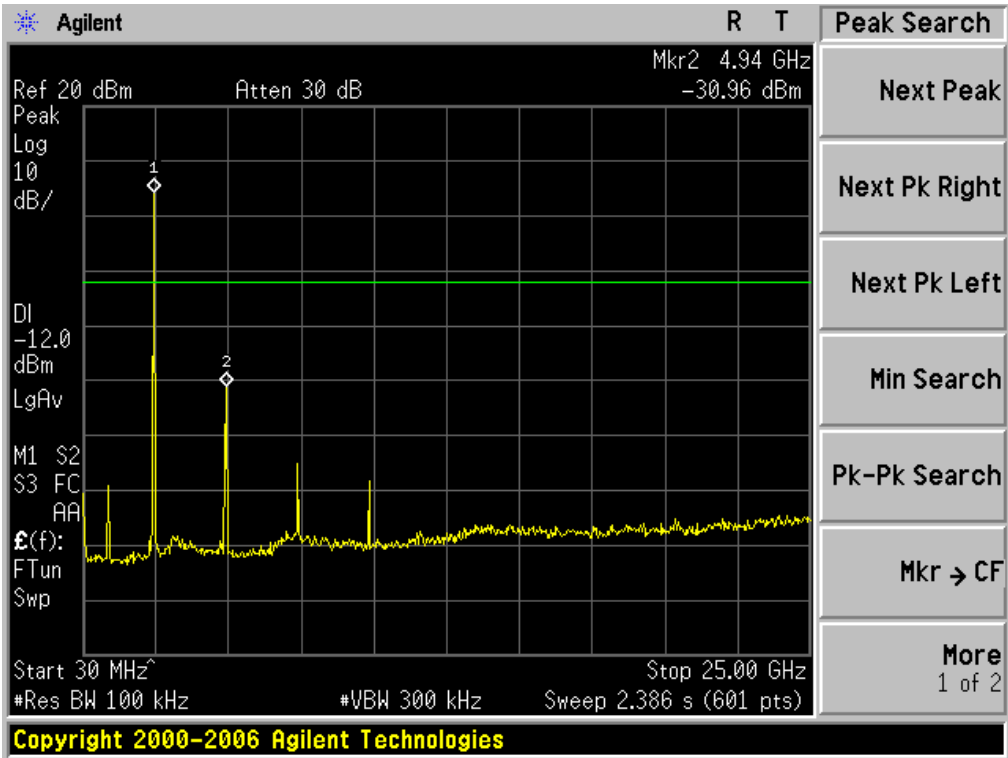
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF 802.11b FOR MODULATION IN LOW CHANNEL



TEST PLOT OF OUT OF BAND EMISSIONS
OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



TEST PLOT OF OUT OF BAND EMISSIONS
OF 802.11b FOR MODULATION IN HIGH CHANNEL



10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). The EUT was placed on a turn table which is 0.8m above ground plane.
- (2). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (3). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (4). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

| | |
|------------------|--------------------------|
| TEST ITEM | POWER PECTRAL DENSITY |
| TEST MODE | 802.11b with data rate 1 |

| Channel No. | PSD (dBm) | Limit (dBm) | Result |
|----------------|-----------|-------------|--------|
| Low Channel | -8.46 | 8 | Pass |
| Middle Channel | -6.78 | 8 | Pass |
| High Channel | -7.33 | 8 | Pass |

| | |
|------------------|--------------------------|
| TEST ITEM | POWER PECTRAL DENSITY |
| TEST MODE | 802.11g with data rate 6 |

| Channel No. | PSD (dBm) | Limit (dBm) | Result |
|----------------|-----------|-------------|--------|
| Low Channel | -16.17 | 8 | Pass |
| Middle Channel | -13.93 | 8 | Pass |
| High Channel | -15.43 | 8 | Pass |

| | |
|------------------|-----------------------|
| TEST ITEM | POWER PECTRAL DENSITY |
|------------------|-----------------------|

| | |
|------------------|-------------------------------|
| TEST MODE | 802.11n 20 with data rate 6.5 |
|------------------|-------------------------------|

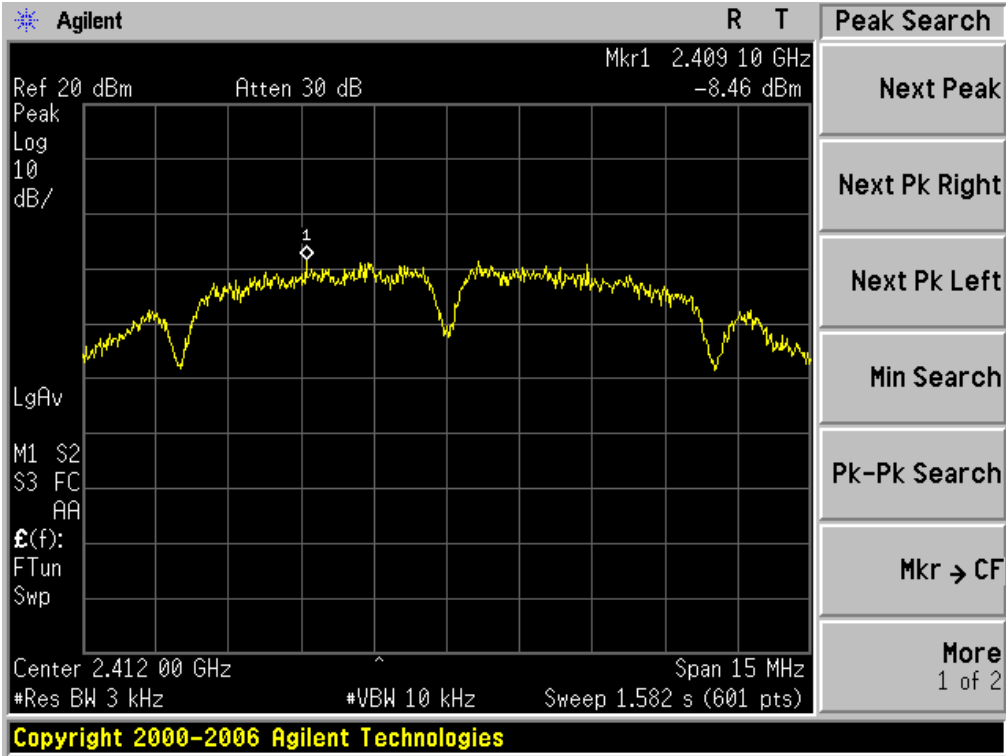
| Channel No. | PSD (dBm) | Limit (dBm) | Result |
|----------------|-----------|-------------|--------|
| Low Channel | -14.14 | 8 | Pass |
| Middle Channel | -12.94 | 8 | Pass |
| High Channel | -16 | 8 | Pass |

| | |
|------------------|--------------------------------|
| TEST ITEM | POWER PECTRAL DENSITY |
| TEST MODE | 802.11n 40 with data rate 13.5 |

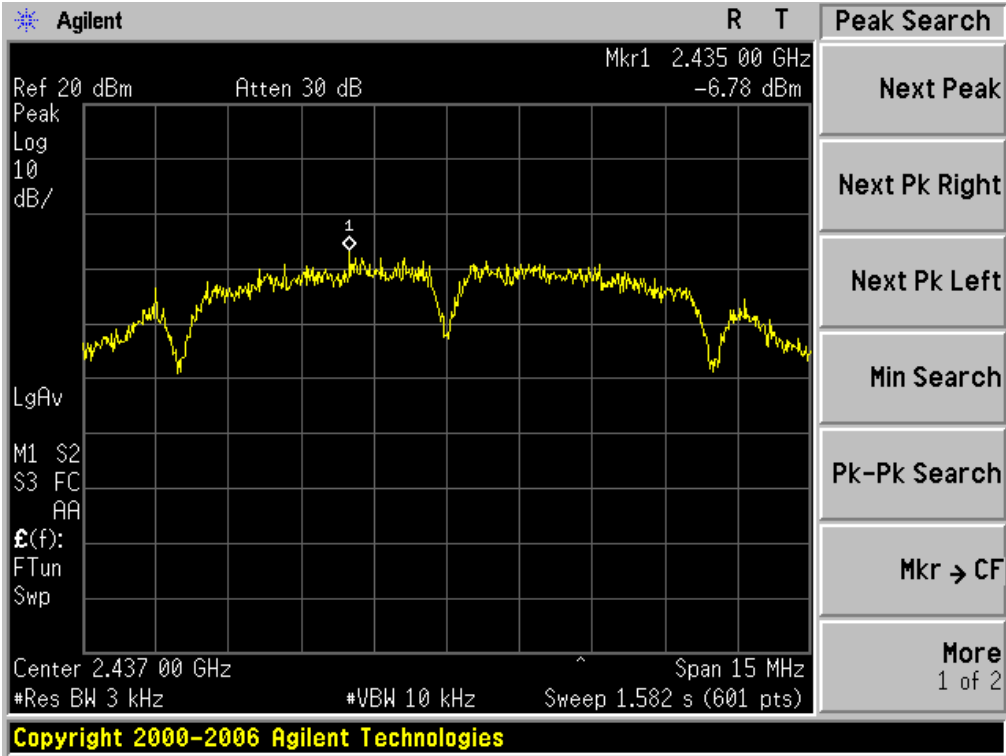
| Channel No. | PSD (dBm) | Limit (dBm) | Result |
|----------------|-----------|-------------|--------|
| Low Channel | -18.82 | 8 | Pass |
| Middle Channel | -15.75 | 8 | Pass |
| High Channel | -18.92 | 8 | Pass |

802.11b TEST RESULT

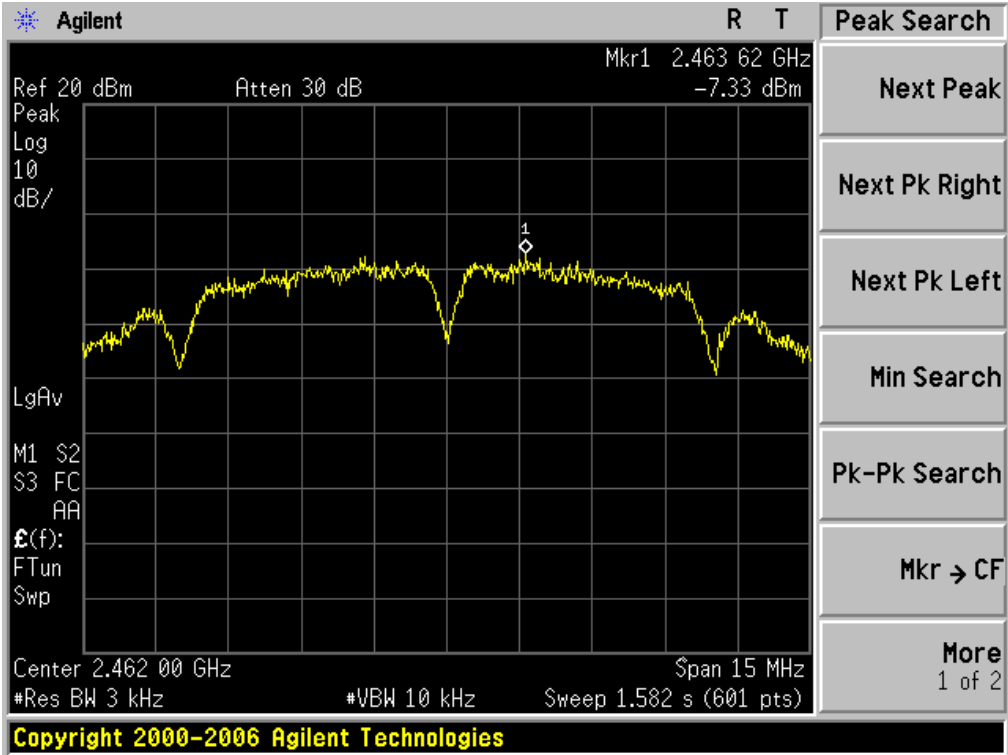
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

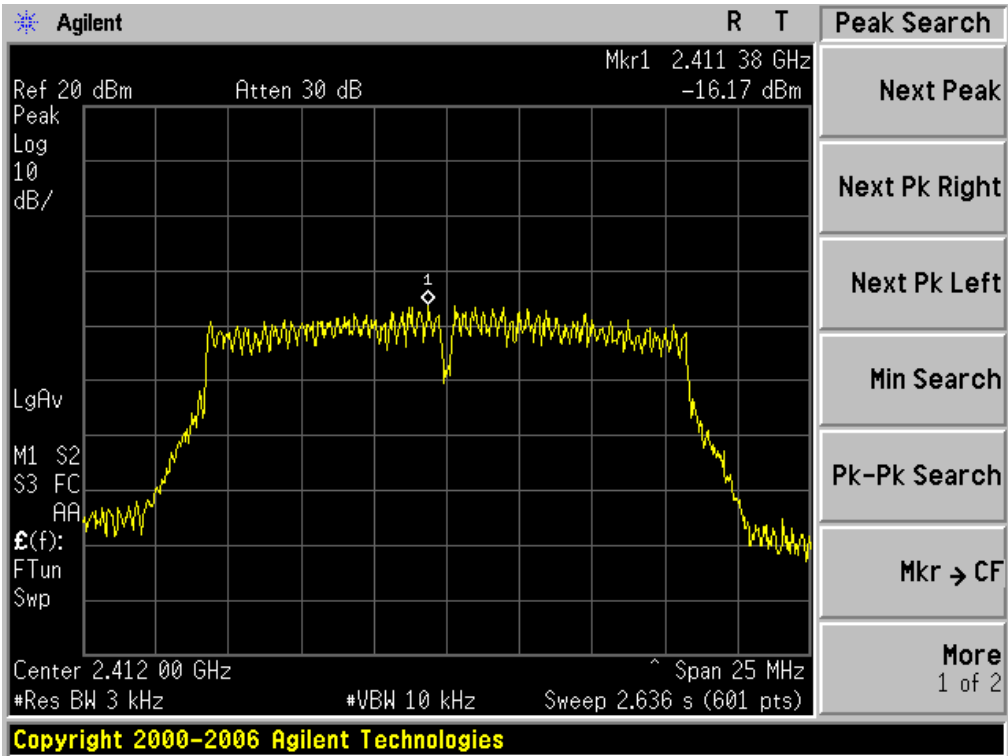


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

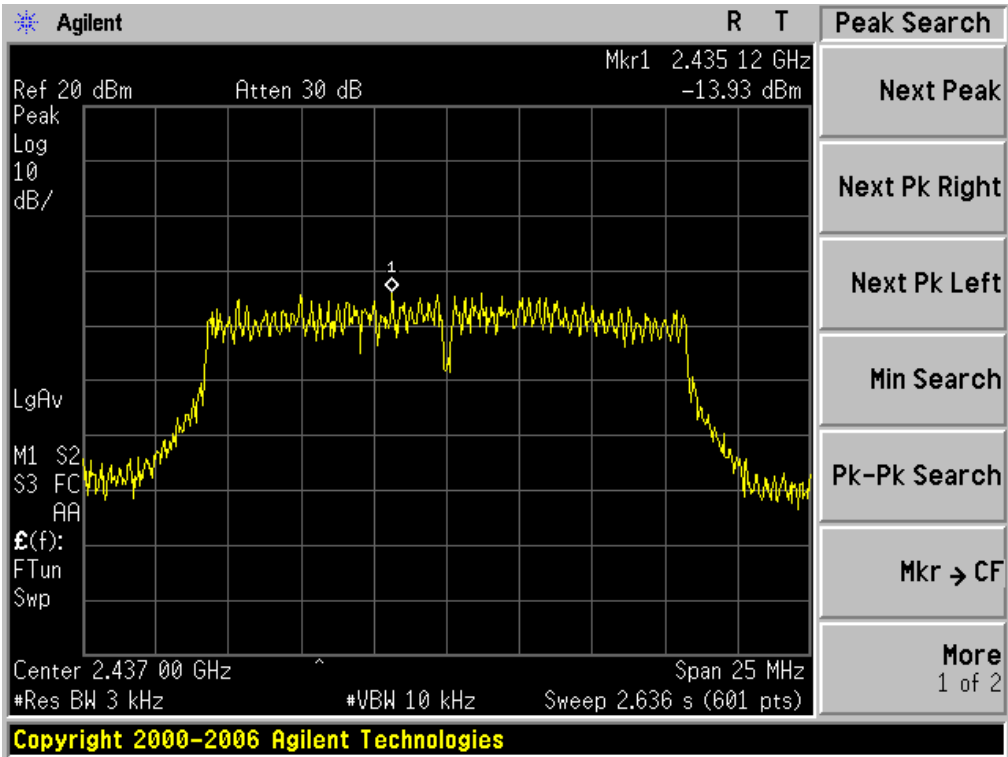


802.11g TEST RESULT

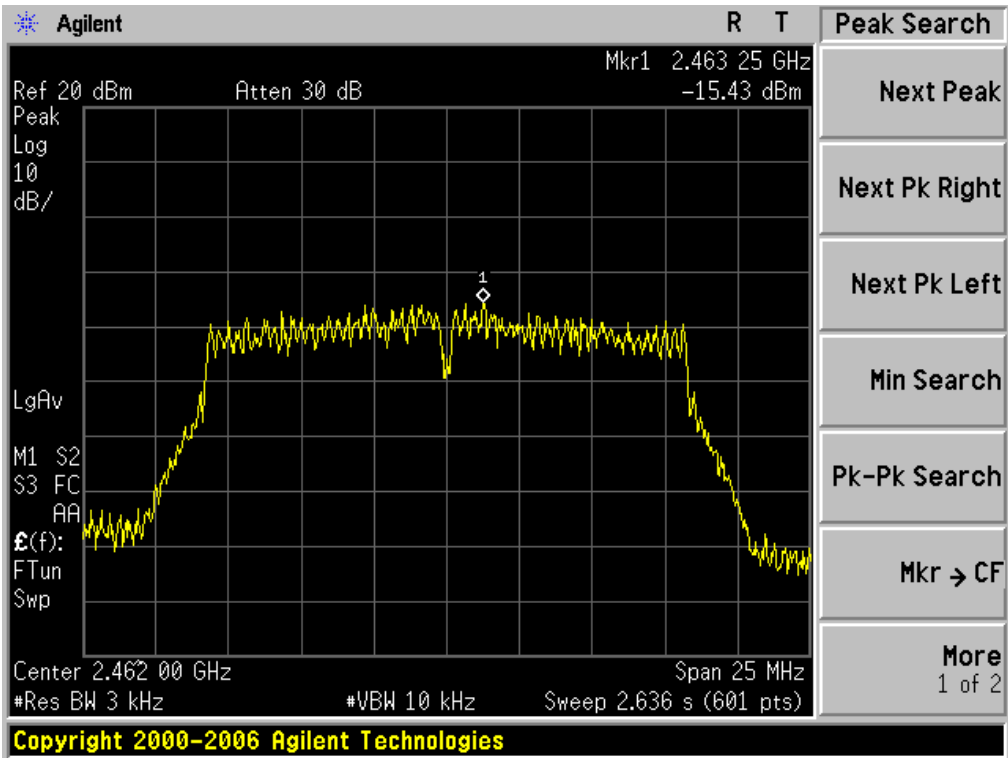
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

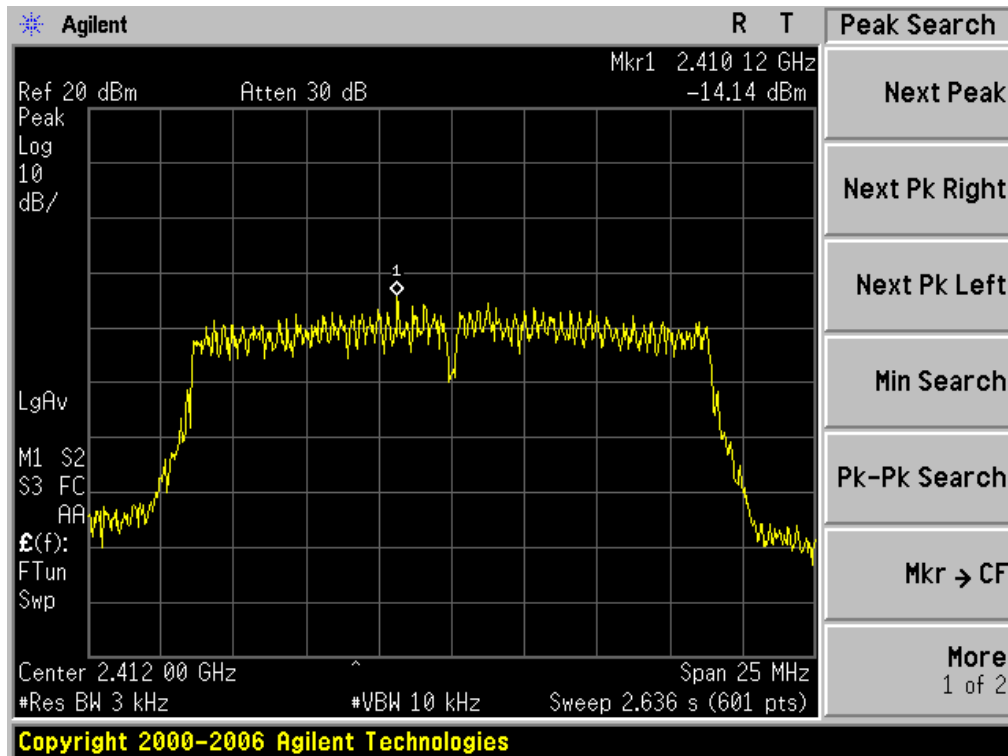


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

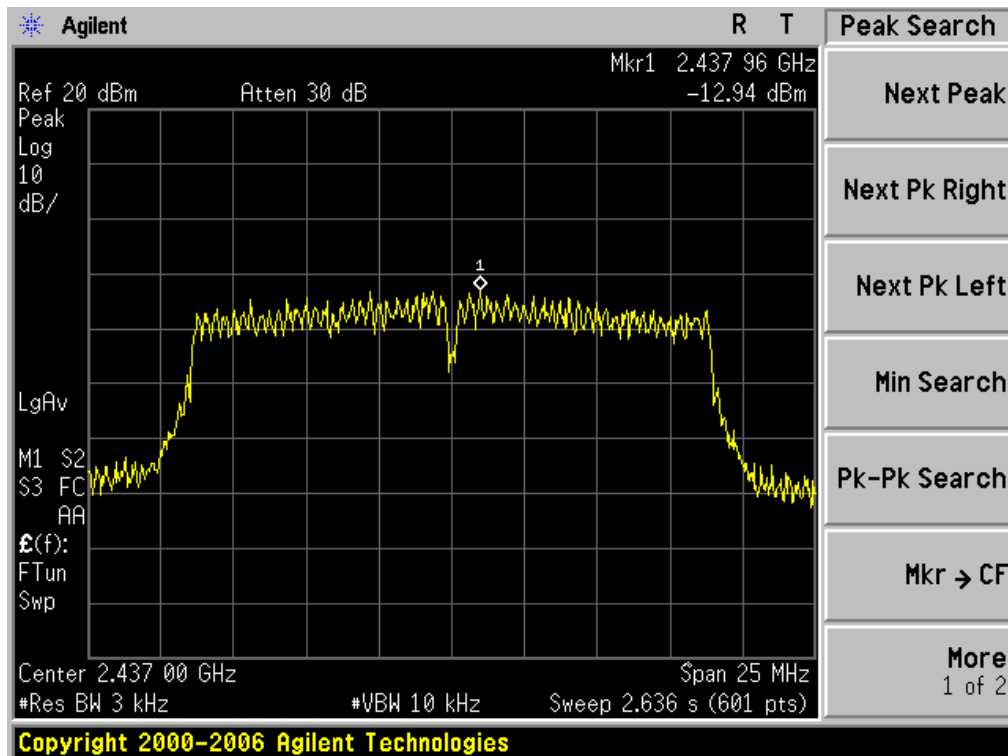


802.11n 20 TEST RESULT

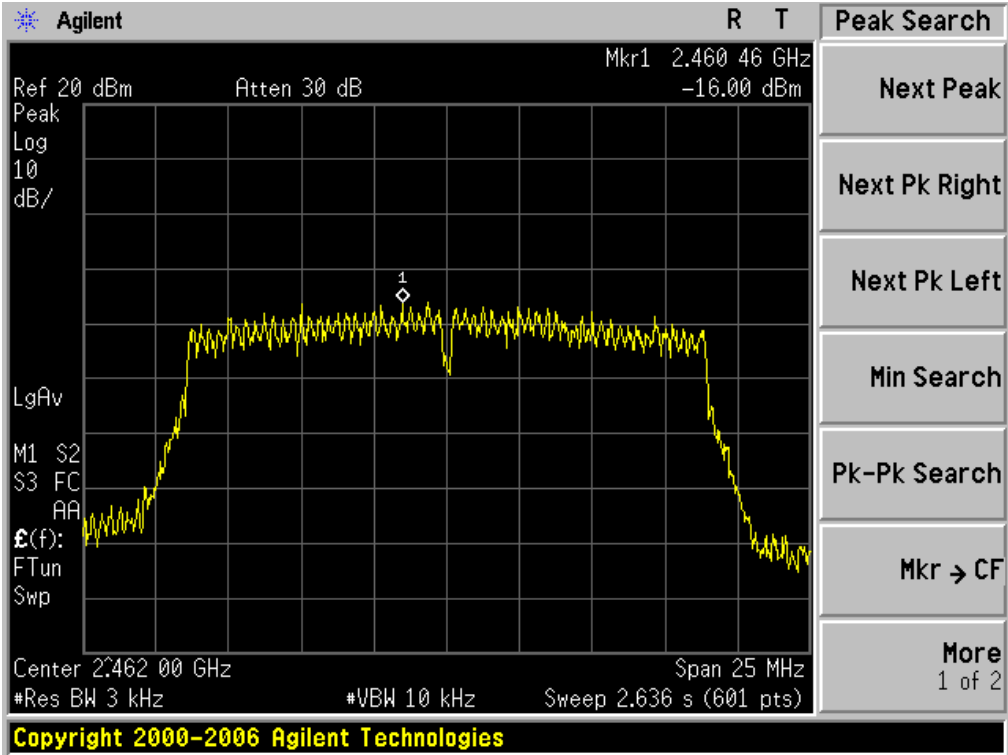
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



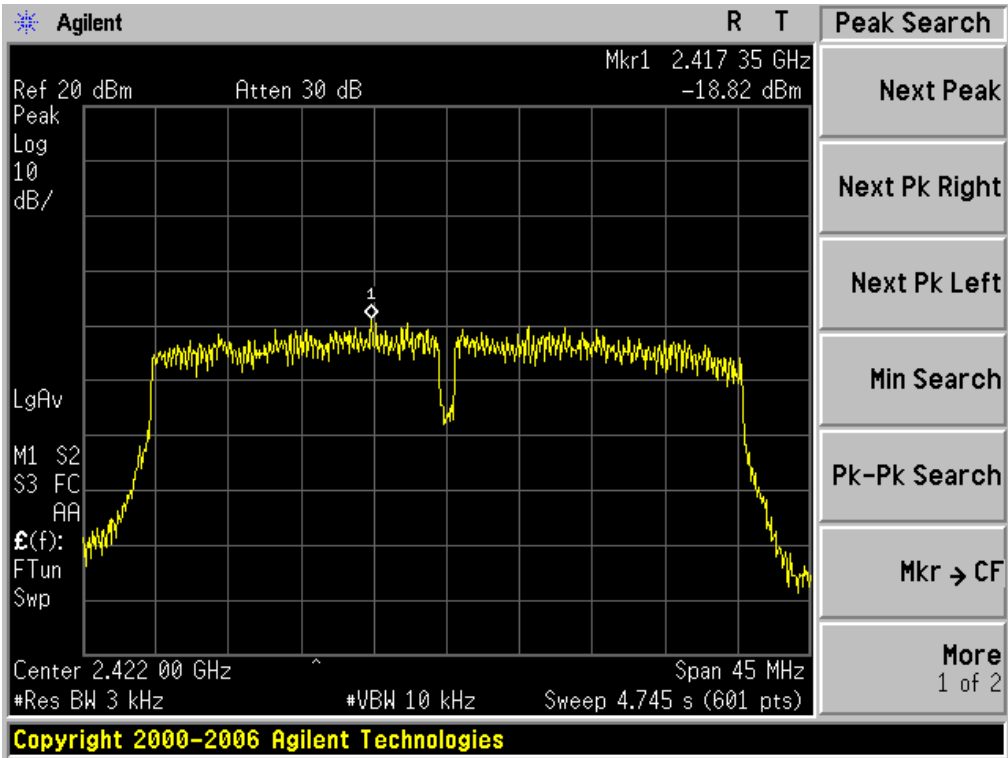
TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



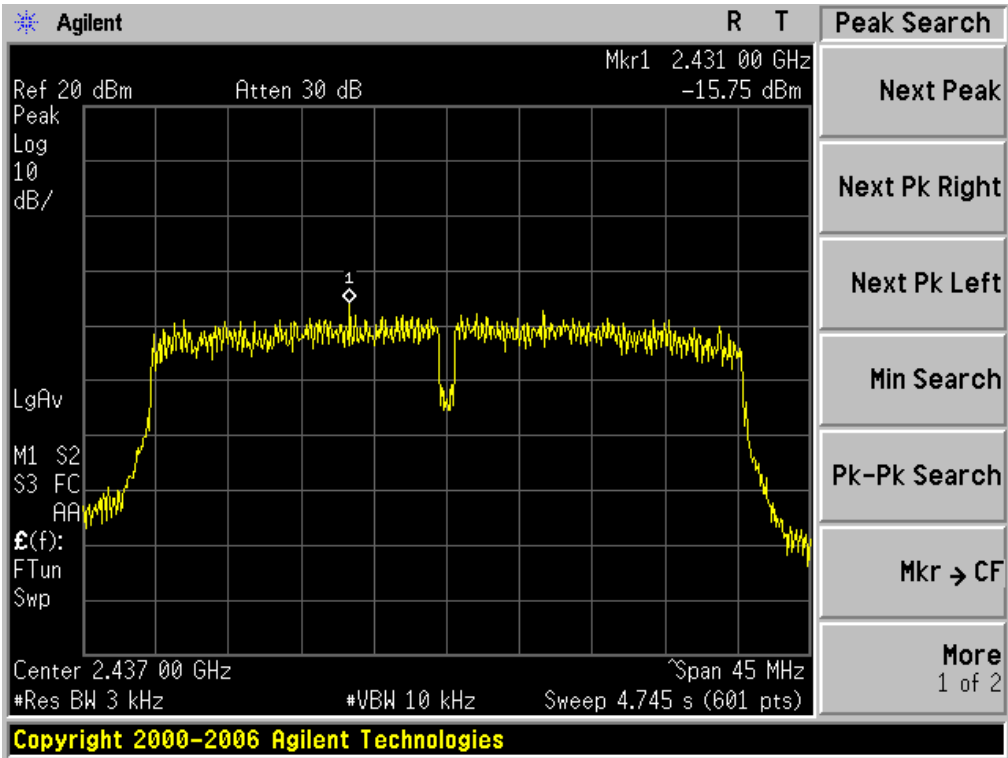
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



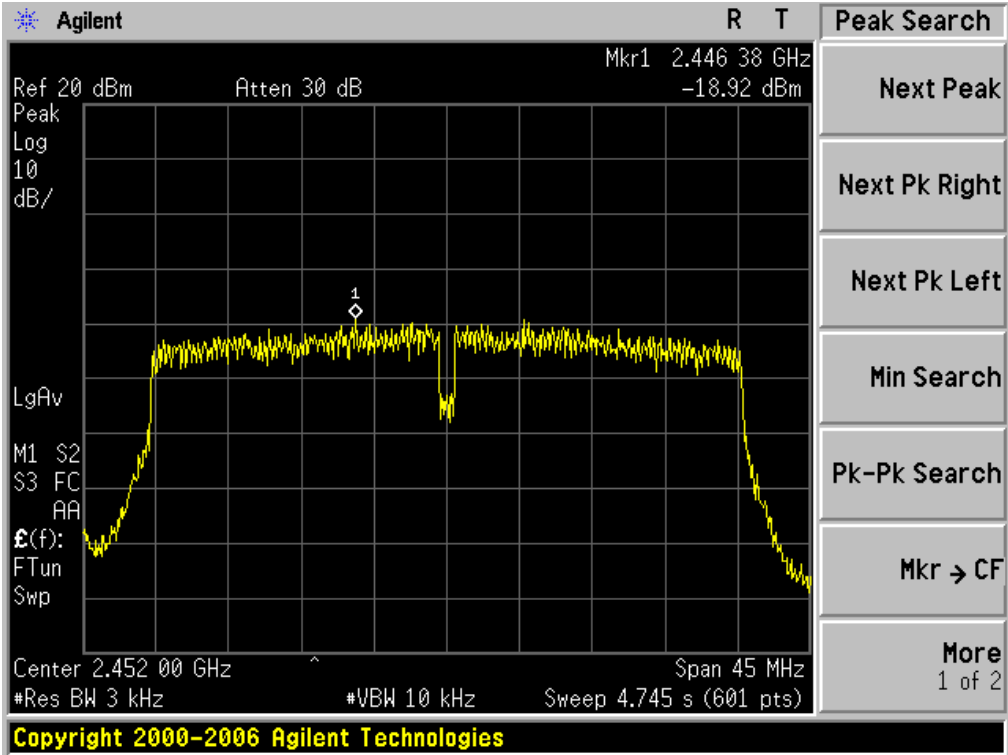
802.11n 40 TEST RESULT
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



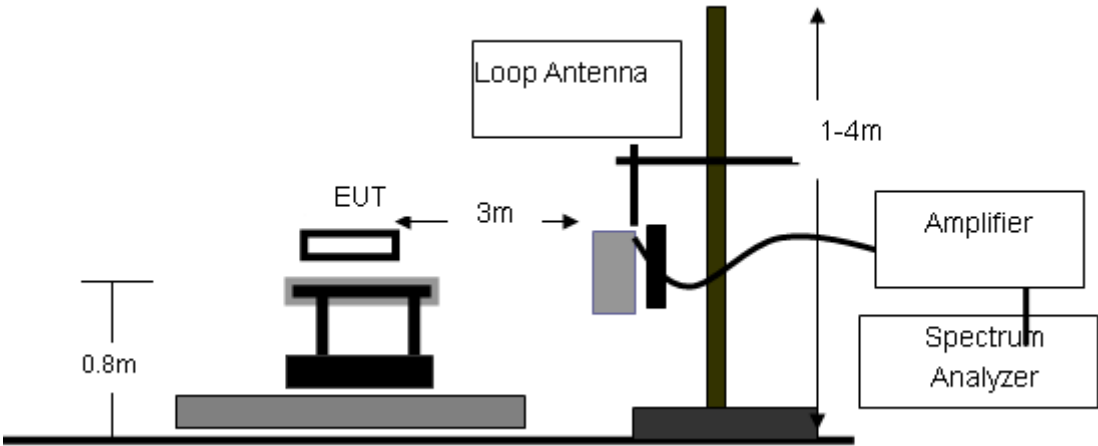
11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

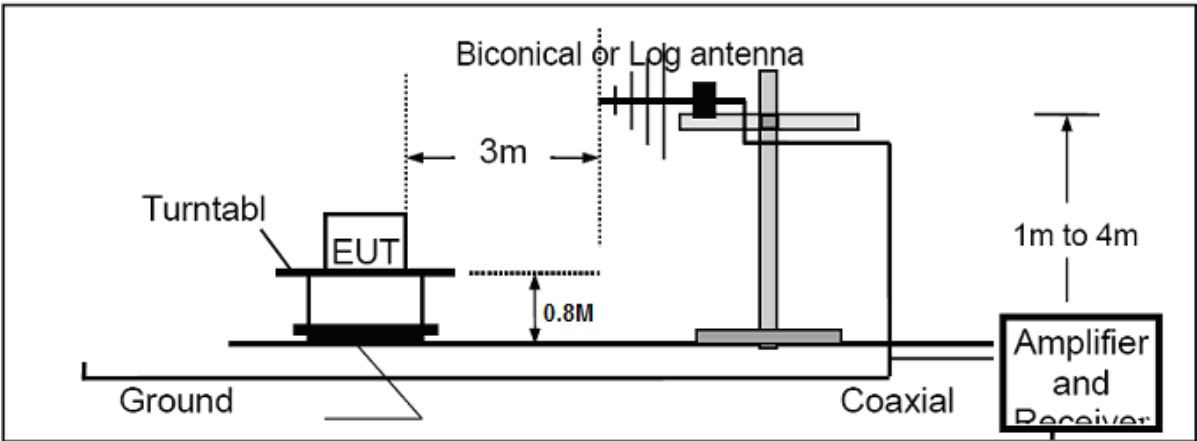
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

11.2. TEST SETUP

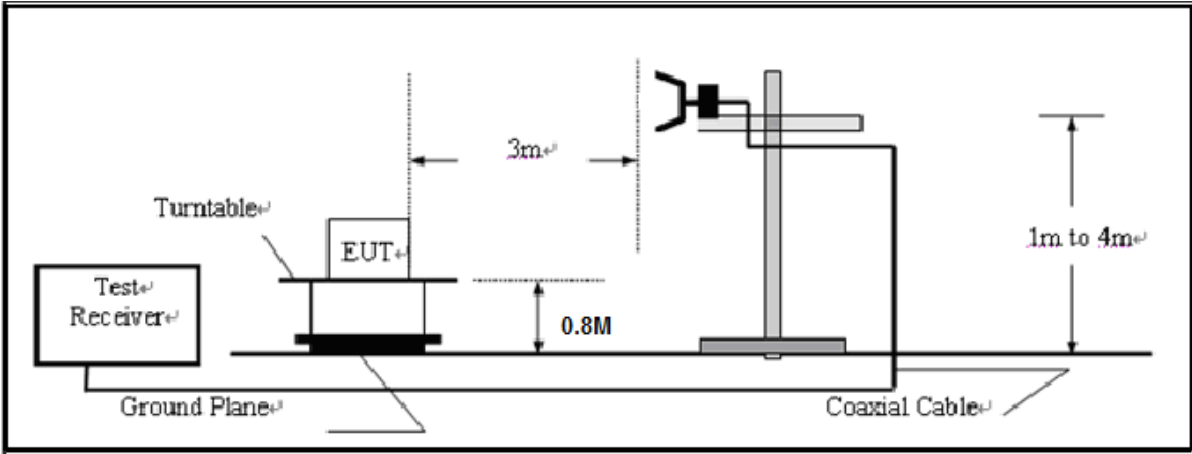
RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

| Frequencies (MHz) | Field Strength (micorvolts/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: All modes were tested For restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

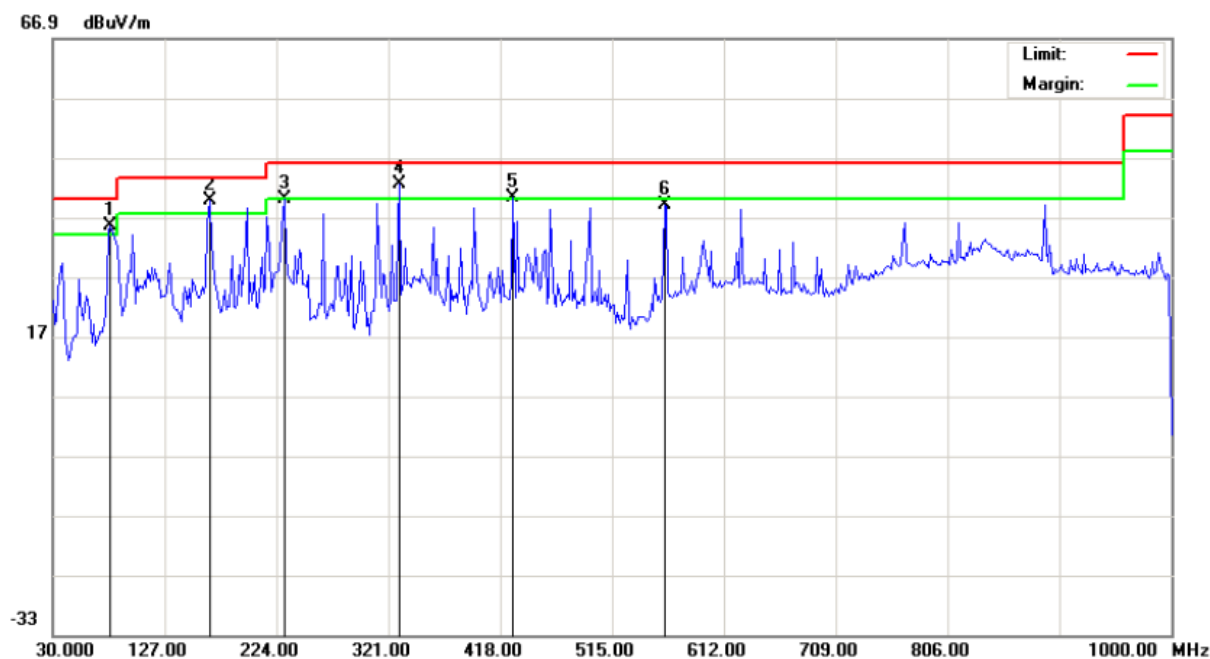
11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Horizontal |



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Tablet PC
M/N: B7120LN
Mode: Low Channel TX
Note:

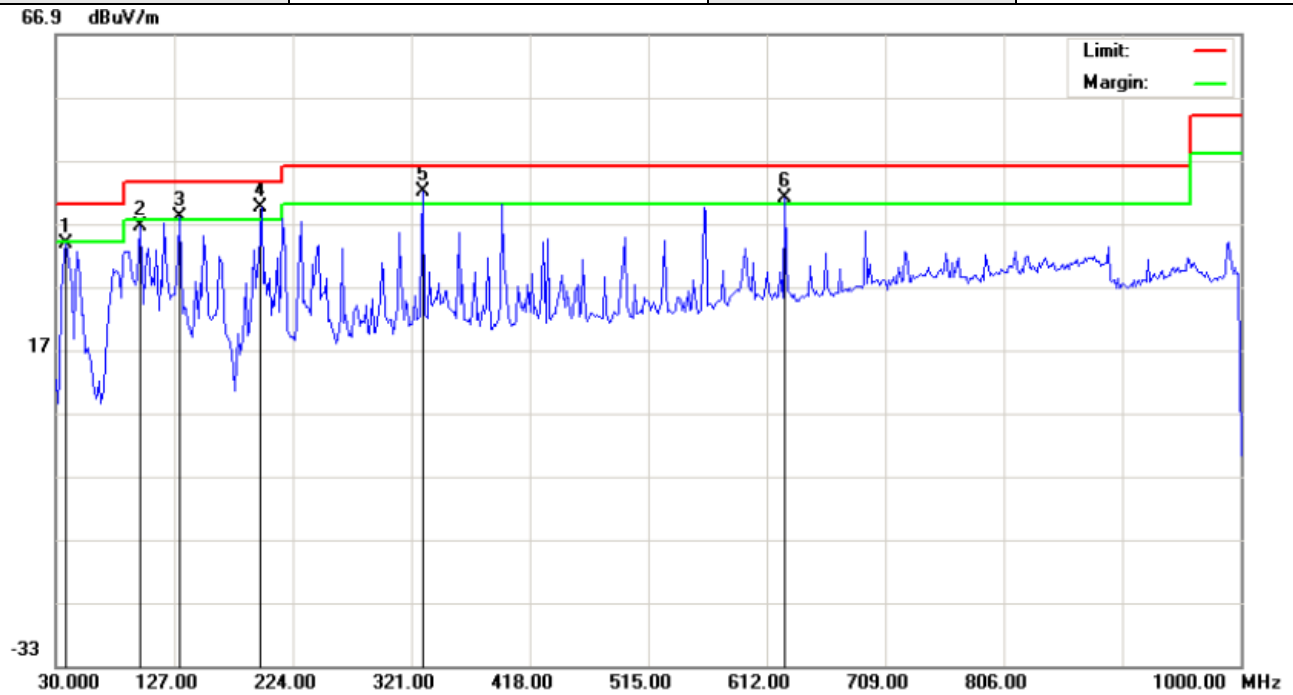
Polarization: **Horizontal**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|-------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | ! | 80.1166 | 23.87 | 11.68 | 35.55 | 40.00 | -4.45 | peak | | | |
| 2 | ! | 165.8000 | 33.92 | 5.82 | 39.74 | 43.50 | -3.76 | peak | | | |
| 3 | ! | 230.4667 | 27.67 | 12.39 | 40.06 | 46.00 | -5.94 | peak | | | |
| 4 | * | 330.6999 | 22.79 | 19.78 | 42.57 | 46.00 | -3.43 | peak | | | |
| 5 | ! | 429.3167 | 19.58 | 20.81 | 40.39 | 46.00 | -5.61 | peak | | | |
| 6 | | 560.2667 | 15.22 | 23.82 | 39.04 | 46.00 | -6.96 | peak | | | |

RESULT: PASS

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Vertical |



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Tablet PC
M/N: B7120LN
Mode: Low Channel TX
Note:

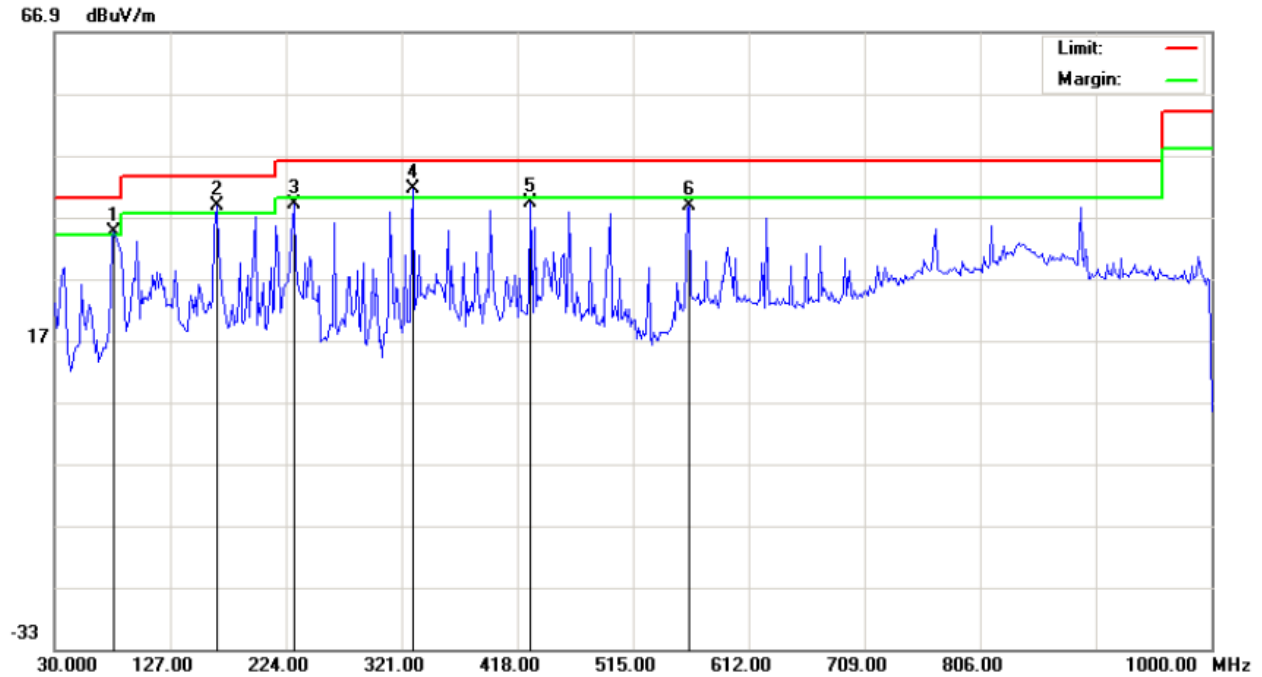
Polarization: **Vertical**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|-------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 38.0833 | 27.06 | 6.84 | 33.90 | 40.00 | -6.10 | peak | | | |
| 2 | | 99.5167 | 32.62 | 3.89 | 36.51 | 43.50 | -6.99 | peak | | | |
| 3 | ! | 131.8497 | 36.34 | 1.61 | 37.95 | 43.50 | -5.55 | peak | | | |
| 4 | * | 198.1331 | 32.32 | 7.32 | 39.64 | 43.50 | -3.86 | peak | | | |
| 5 | ! | 330.6999 | 22.28 | 19.78 | 42.06 | 46.00 | -3.94 | peak | | | |
| 6 | ! | 626.5498 | 15.25 | 25.76 | 41.01 | 46.00 | -4.99 | peak | | | |

RESULT: PASS

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2437MHZ | Antenna | Horizontal |



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Tablet PC
M/N: B7120LN
Mode: Middel Channel TX
Note:

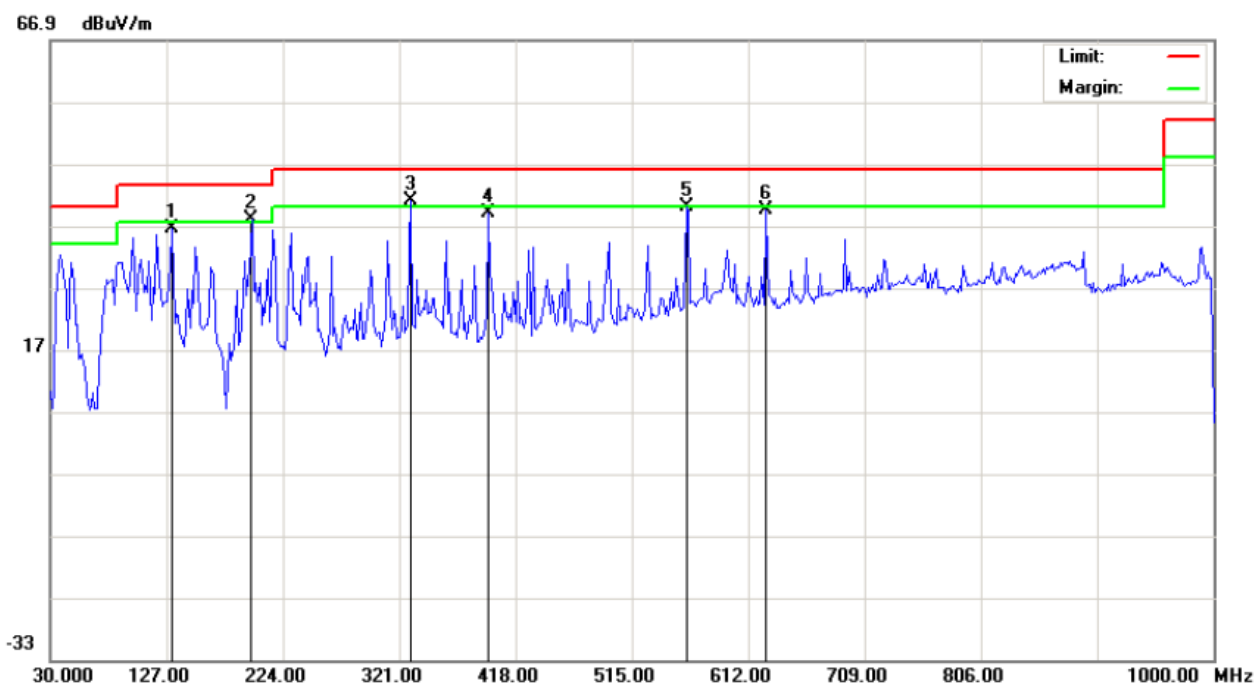
Polarization: **Horizontal**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|-------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | ! | 80.1166 | 22.87 | 11.68 | 34.55 | 40.00 | -5.45 | peak | | | |
| 2 | ! | 165.8000 | 32.92 | 5.82 | 38.74 | 43.50 | -4.76 | peak | | | |
| 3 | | 230.4667 | 26.67 | 12.39 | 39.06 | 46.00 | -6.94 | peak | | | |
| 4 | * | 330.6999 | 21.79 | 19.78 | 41.57 | 46.00 | -4.43 | peak | | | |
| 5 | | 429.3167 | 18.58 | 20.81 | 39.39 | 46.00 | -6.61 | peak | | | |
| 6 | | 561.8832 | 14.91 | 23.88 | 38.79 | 46.00 | -7.21 | peak | | | |

RESULT: PASS

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2437MHZ | Antenna | Vertical |



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Tablet PC
M/N: B7120LN
Mode: Middel Channel TX
Note:

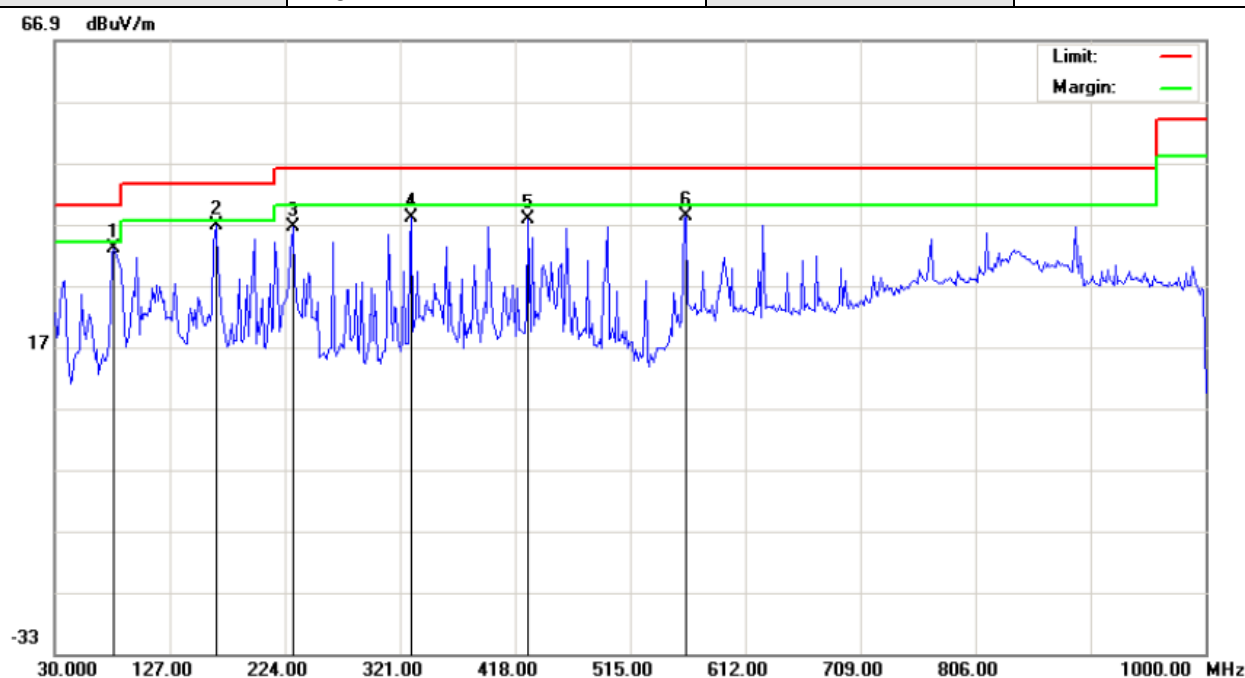
Polarization: **Vertical**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|-------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 131.8497 | 34.84 | 1.61 | 36.45 | 43.50 | -7.05 | peak | | | |
| 2 | ! | 198.1331 | 30.82 | 7.32 | 38.14 | 43.50 | -5.36 | peak | | | |
| 3 | * | 330.6999 | 21.28 | 19.78 | 41.06 | 46.00 | -4.94 | peak | | | |
| 4 | | 395.3666 | 19.98 | 19.17 | 39.15 | 46.00 | -6.85 | peak | | | |
| 5 | | 560.2667 | 16.15 | 23.82 | 39.97 | 46.00 | -6.03 | peak | | | |
| 6 | | 626.5498 | 13.75 | 25.76 | 39.51 | 46.00 | -6.49 | peak | | | |

RESULT: PASS

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2462MHZ | Antenna | Horizontal |



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Tablet PC
M/N: B7120LN
Mode: High Channel TX
Note:

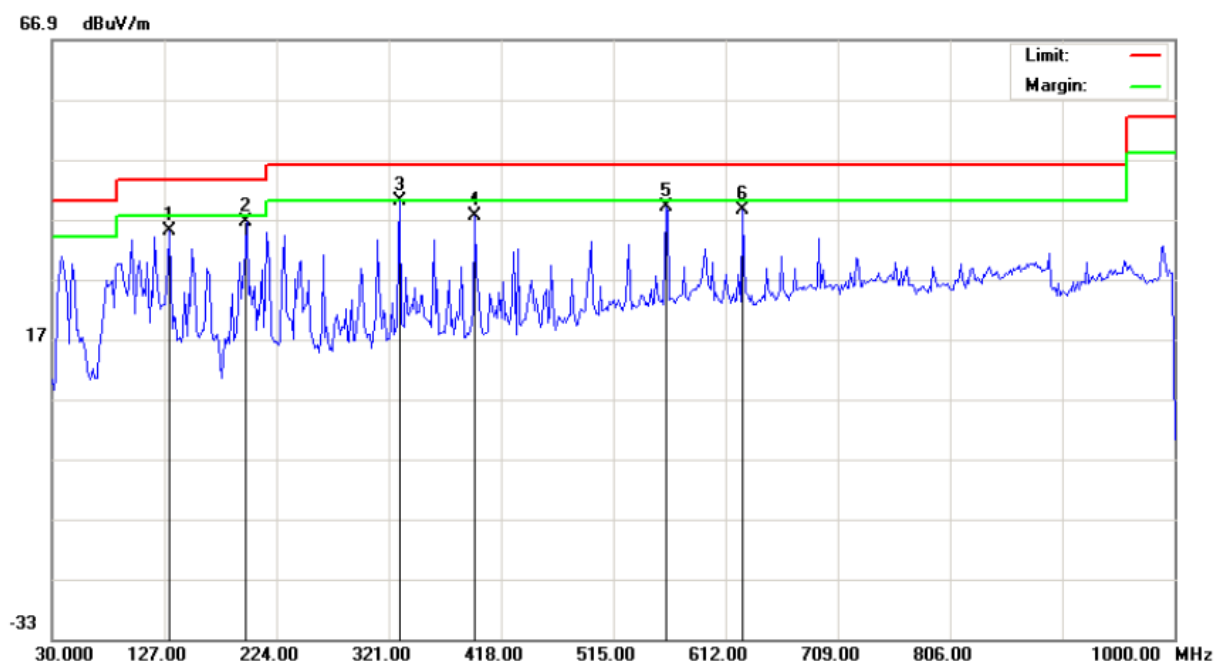
Polarization: **Horizontal**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|-------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 80.1166 | 21.37 | 11.68 | 33.05 | 40.00 | -6.95 | peak | | | |
| 2 | * | 165.8000 | 30.92 | 5.82 | 36.74 | 43.50 | -6.76 | peak | | | |
| 3 | | 230.4667 | 24.17 | 12.39 | 36.56 | 46.00 | -9.44 | peak | | | |
| 4 | | 330.6999 | 18.29 | 19.78 | 38.07 | 46.00 | -7.93 | peak | | | |
| 5 | | 429.3167 | 17.08 | 20.81 | 37.89 | 46.00 | -8.11 | peak | | | |
| 6 | | 561.8832 | 14.41 | 23.88 | 38.29 | 46.00 | -7.71 | peak | | | |

RESULT: PASS

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2462MHZ | Antenna | Vertical |



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Tablet PC
M/N: B7120LN
Mode: High Channel TX
Note:

Polarization: **Vertical**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

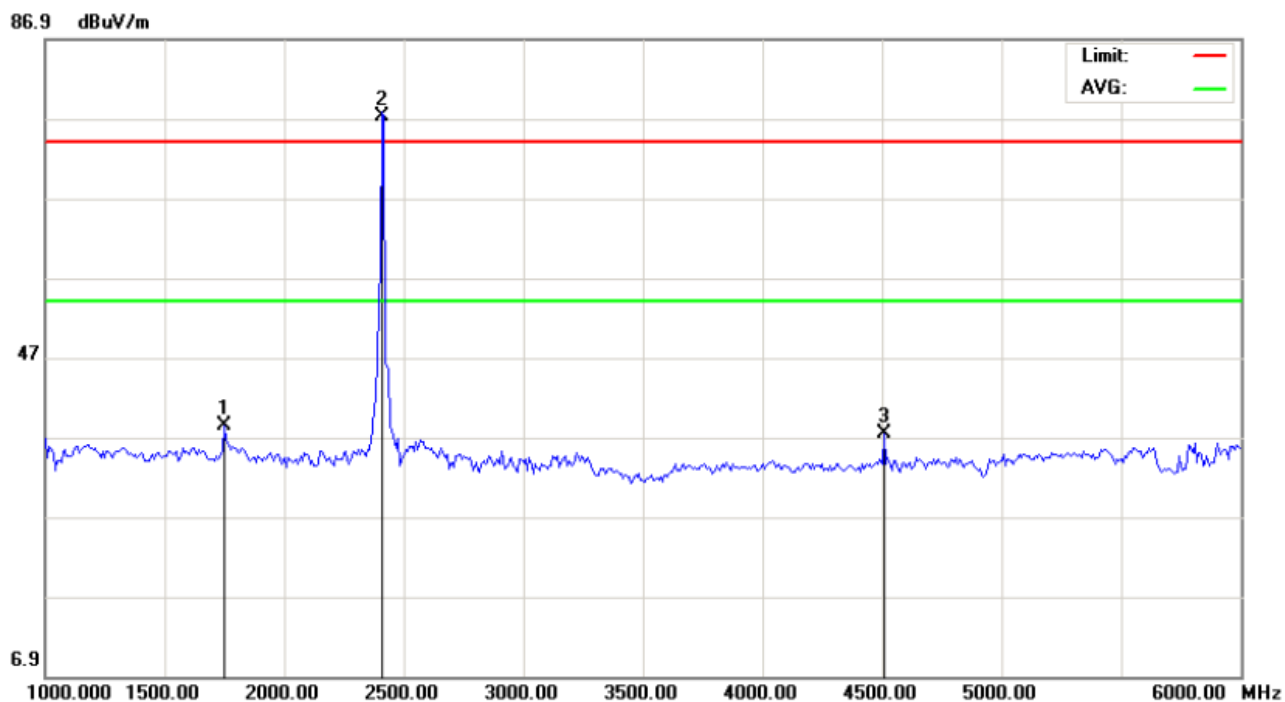
| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|-------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 131.8497 | 33.34 | 1.61 | 34.95 | 43.50 | -8.55 | peak | | | |
| 2 | | 198.1331 | 29.32 | 7.32 | 36.64 | 43.50 | -6.86 | peak | | | |
| 3 | * | 330.6999 | 20.28 | 19.78 | 40.06 | 46.00 | -5.94 | peak | | | |
| 4 | | 395.3666 | 18.48 | 19.17 | 37.65 | 46.00 | -8.35 | peak | | | |
| 5 | | 560.2667 | 15.15 | 23.82 | 38.97 | 46.00 | -7.03 | peak | | | |
| 6 | | 626.5498 | 12.75 | 25.76 | 38.51 | 46.00 | -7.49 | peak | | | |

RESULT: PASS

Note: Measurement= Reading + Factor, Over=Measure-Limit.

RADIATED EMISSION ABOVE 1GHZ

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Horizontal |



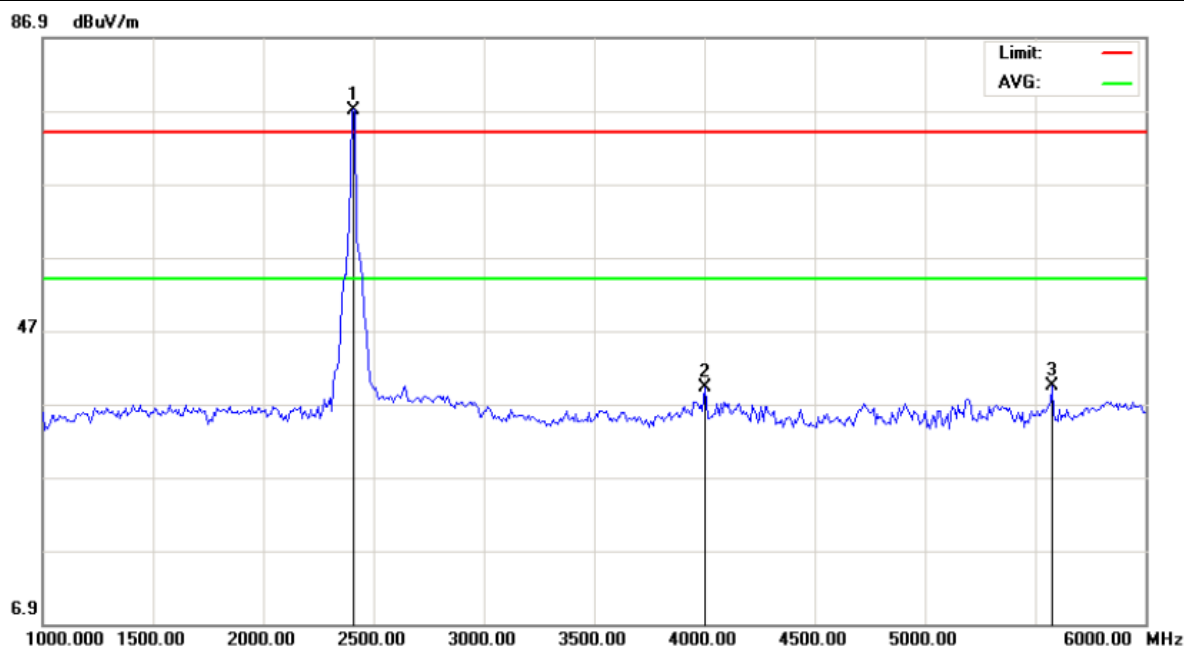
Site: site #1 Polarization: **Horizontal** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance: 3m
M/N: B7120LN
Mode: Low channel
Note:

| No. | Mk | Freq. MHz | Reading dBuV | Factor dB/m | Measurement dBuV/m | Limit dBuV/m | Over dB | Detector | Antenna Height cm | Table Degree degree | Comment |
|-----|----|--------------|-----------------|----------------|-----------------------|-----------------|------------|----------|-------------------------|---------------------------|---------|
| 1 | | 1750.000 | 38.33 | 0.00 | 38.33 | 74.00 | -35.67 | peak | | | |
| 2 | * | 2412.082 | 77.16 | 0.00 | 77.16 | 74.00 | 3.16 | peak | | | |
| 3 | | 4508.333 | 37.47 | 0.00 | 37.47 | 74.00 | -36.53 | peak | | | |

**The 2 is the basic frequency.

RESULT: PASS

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Vertical |



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance: 3m
M/N: B7120LN
Mode: Low channel
Note:

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | * | 2412.085 | 76.92 | 0.00 | 76.92 | 74.00 | 2.92 | peak | | | |
| 2 | | 4000.000 | 39.23 | 0.00 | 39.23 | 74.00 | -34.77 | peak | | | |
| 3 | | 5575.000 | 39.42 | 0.00 | 39.42 | 74.00 | -34.58 | peak | | | |

**The 1 is the basic frequency.

RESULT: PASS

Note: The other modes radiation emissions have more than 20dB margin.

Measurement= Reading + Factor, Over=Measure-Limit.

All modes radiation emission from 6GHz to 25GHz at least have 20dB margin.

12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

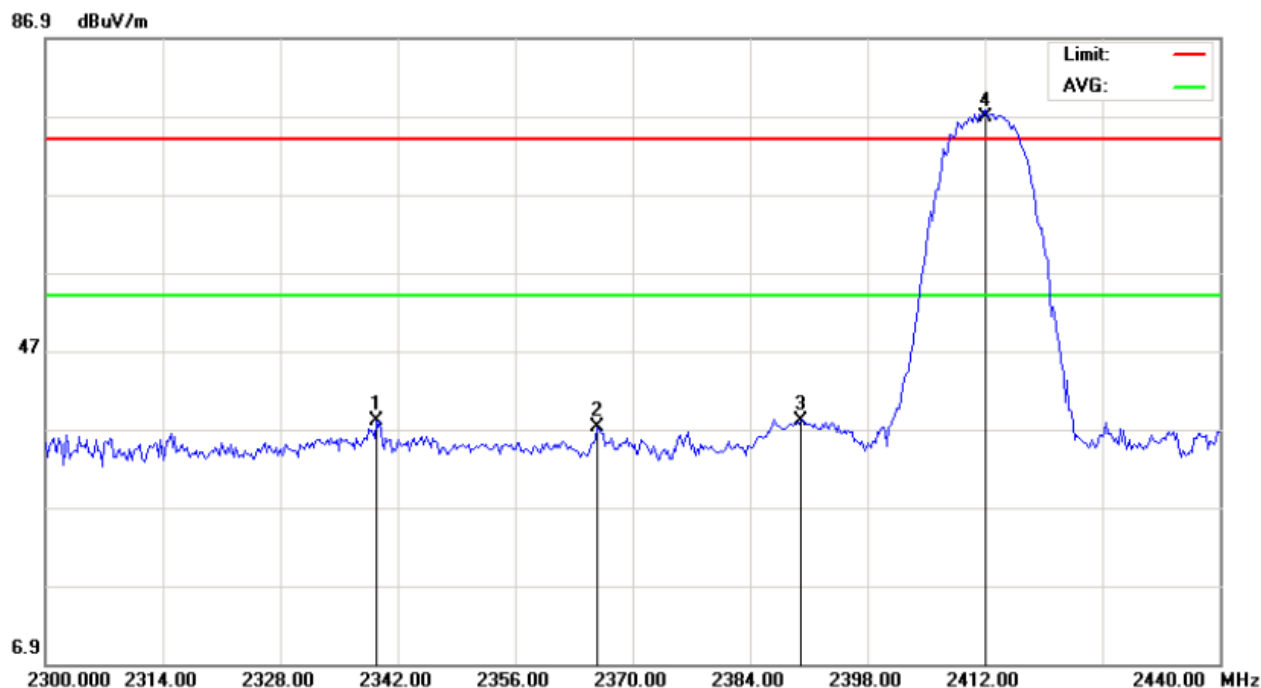
1. Set the EUT Work on the top, the bottom operation frequency individually.
2. Set SPA Start or Stop Frequency = Operation Frequency, $RBW \geq 1\% \text{span}$, $VBW \geq RBW$
3. The band edges was measured and recorded.

12.2. TEST SET-UP

Radiated same as 11.2

12.3. TEST RESULT

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Horizontal |



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Tablet PC
M/N: B7120LN
Mode: 802.11b Low channel TX
Note:

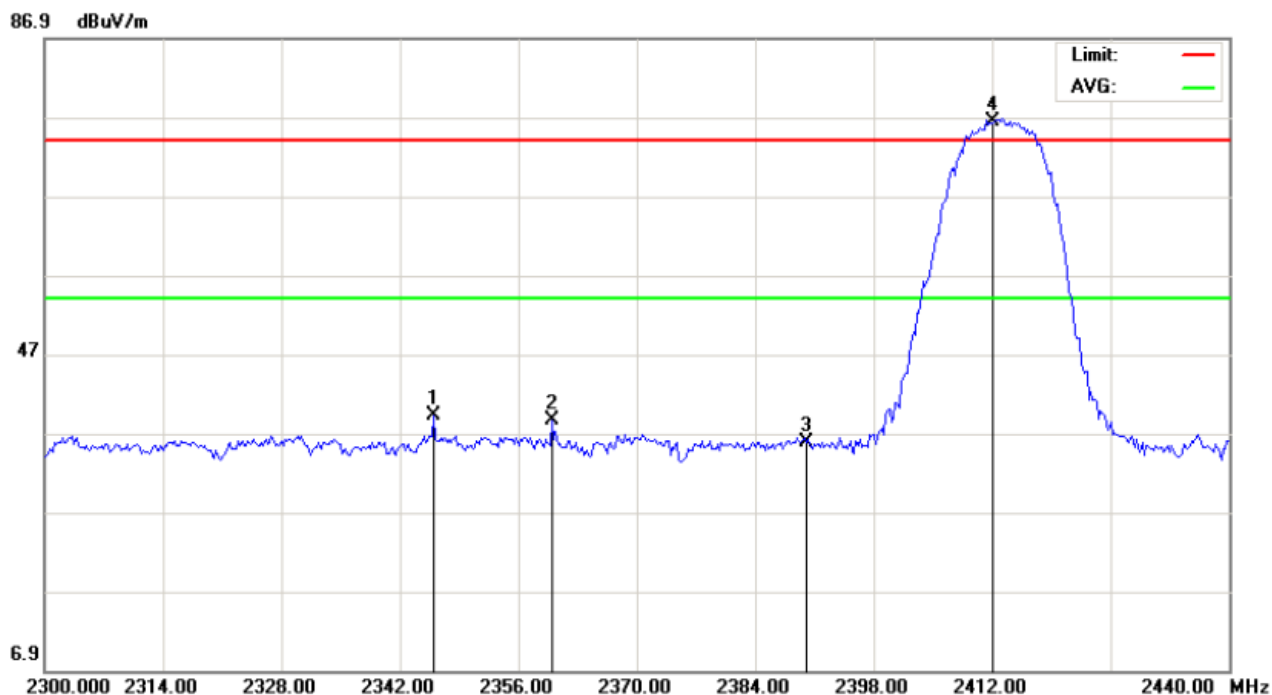
Polarization: **Horizontal**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

| No. | Mk | Freq. MHz | Reading dBuV | Factor dB/m | Measurement dBuV/m | Limit dBuV/m | Over dB | Detector | Antenna Height cm | Table Degree degree | Comment |
|-----|----|--------------|-----------------|----------------|-----------------------|-----------------|------------|----------|-------------------------|---------------------------|---------|
| 1 | | 2339.433 | 37.97 | 0.00 | 37.97 | 74.00 | -36.03 | peak | | | |
| 2 | | 2365.800 | 37.16 | 0.00 | 37.16 | 74.00 | -36.84 | peak | | | |
| 3 | | 2390.000 | 38.10 | 0.00 | 38.10 | 74.00 | -35.90 | peak | | | |
| 4 | * | 2412.082 | 76.73 | 0.00 | 76.73 | 74.00 | 2.73 | peak | | | |

RESULT: PASS

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Vertical |

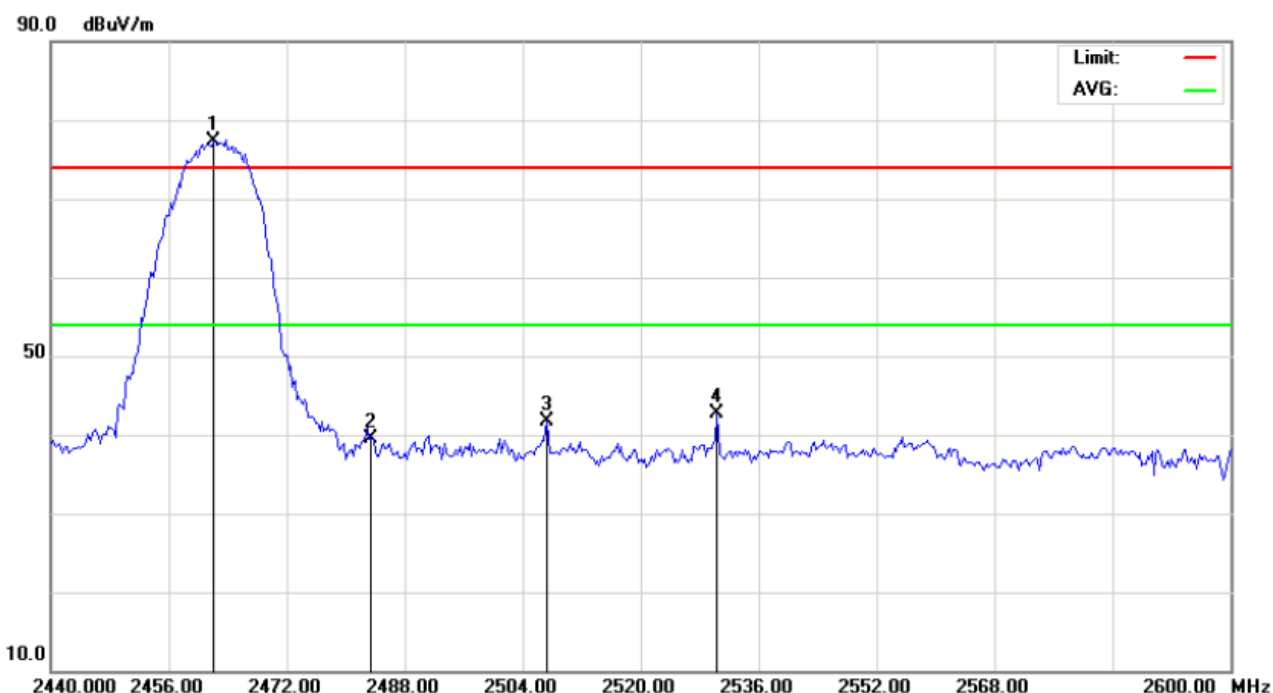


Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance: 3m
M/N: B7120LN
Mode: 802.11b Low channel TX
Note:

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 2345.967 | 39.24 | 0.00 | 39.24 | 74.00 | -34.76 | peak | | | |
| 2 | | 2359.967 | 38.63 | 0.00 | 38.63 | 74.00 | -35.37 | peak | | | |
| 3 | | 2390.000 | 35.75 | 0.00 | 35.75 | 74.00 | -38.25 | peak | | | |
| 4 | * | 2412.077 | 76.36 | 0.00 | 76.36 | 74.00 | 2.36 | peak | | | |

RESULT: PASS

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2462MHZ | Antenna | Horizontal |

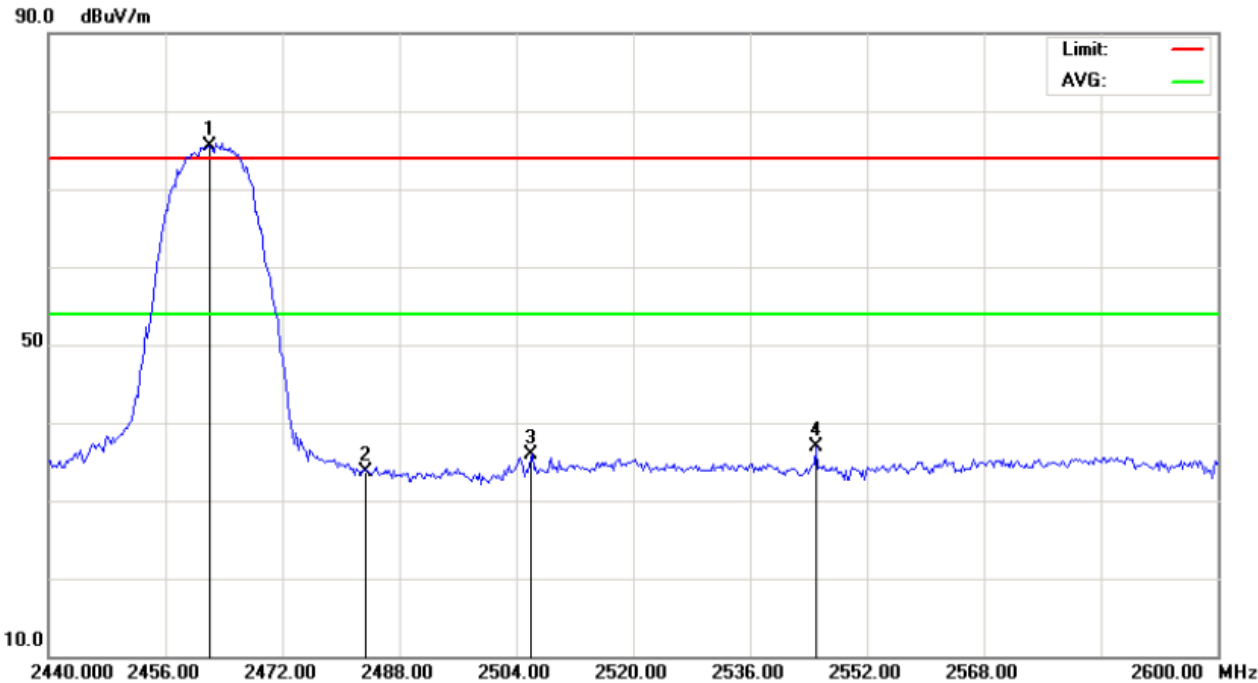


Site: site #1 Polarization: **Horizontal** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance: 3m
M/N: B7120LN
Mode: 802.11b High channel TX
Note:

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | * | 2462.057 | 77.26 | 0.00 | 77.26 | 74.00 | 3.26 | peak | | | |
| 2 | | 2483.500 | 39.58 | 0.00 | 39.58 | 74.00 | -34.42 | peak | | | |
| 3 | | 2507.200 | 41.69 | 0.00 | 41.69 | 74.00 | -32.31 | peak | | | |
| 4 | | 2530.400 | 42.77 | 0.00 | 42.77 | 74.00 | -31.23 | peak | | | |

RESULT: PASS

| | | | |
|-------------|-------------------------------------|-------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2462MHZ | Antenna | Vertical |



Site: site #1

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

EUT: Tablet PC

M/N: B7120LN

Mode: 802.11b High channel TX

Note:

Polarization: Vertical

Power:

Distance: 3m

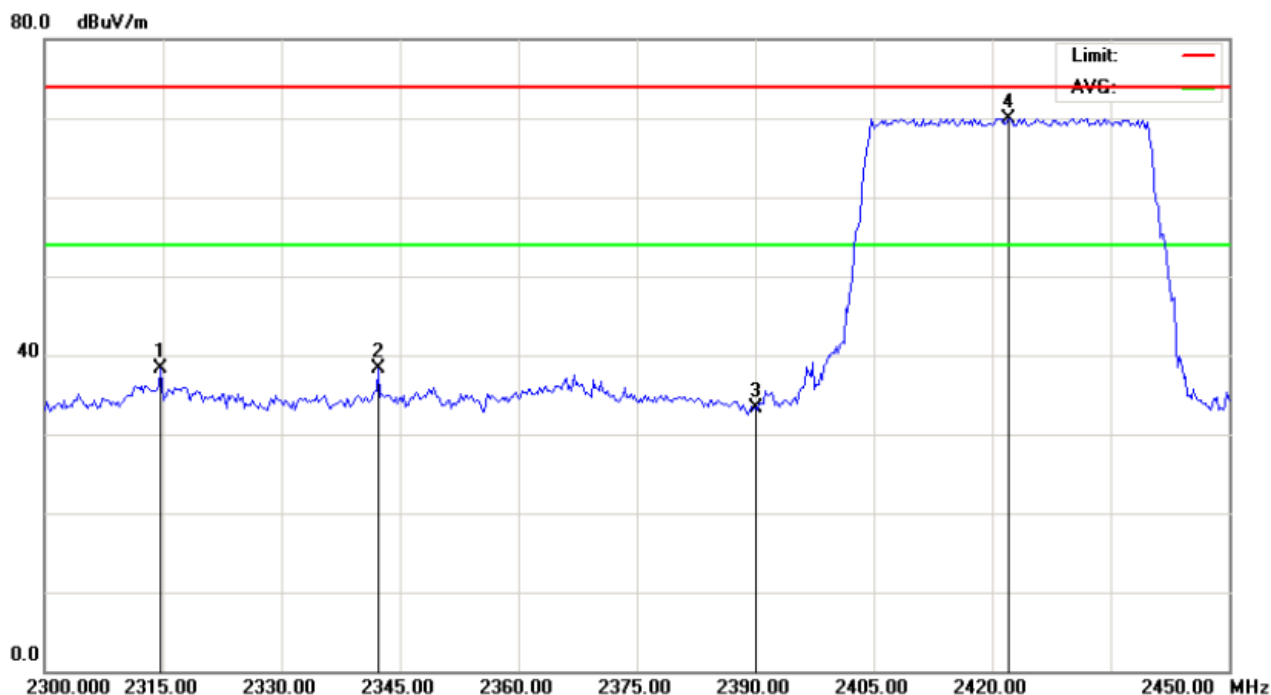
Temperature: 26

Humidity: 60 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | * | 2462.077 | 75.49 | 0.00 | 75.49 | 74.00 | 1.49 | peak | | | |
| 2 | | 2483.500 | 33.63 | 0.00 | 33.63 | 74.00 | -40.37 | peak | | | |
| 3 | | 2506.133 | 35.83 | 0.00 | 35.83 | 74.00 | -38.17 | peak | | | |
| 4 | | 2545.067 | 36.95 | 0.00 | 36.95 | 74.00 | -37.05 | peak | | | |

RESULT: PASS

| | | | |
|-------------|---|-------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40 with data rate 13.5 2422MHZ | Antenna | Horizontal |



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Tablet PC
M/N: B7120LN
Mode: 802.11n(40) Low channel TX
Note:

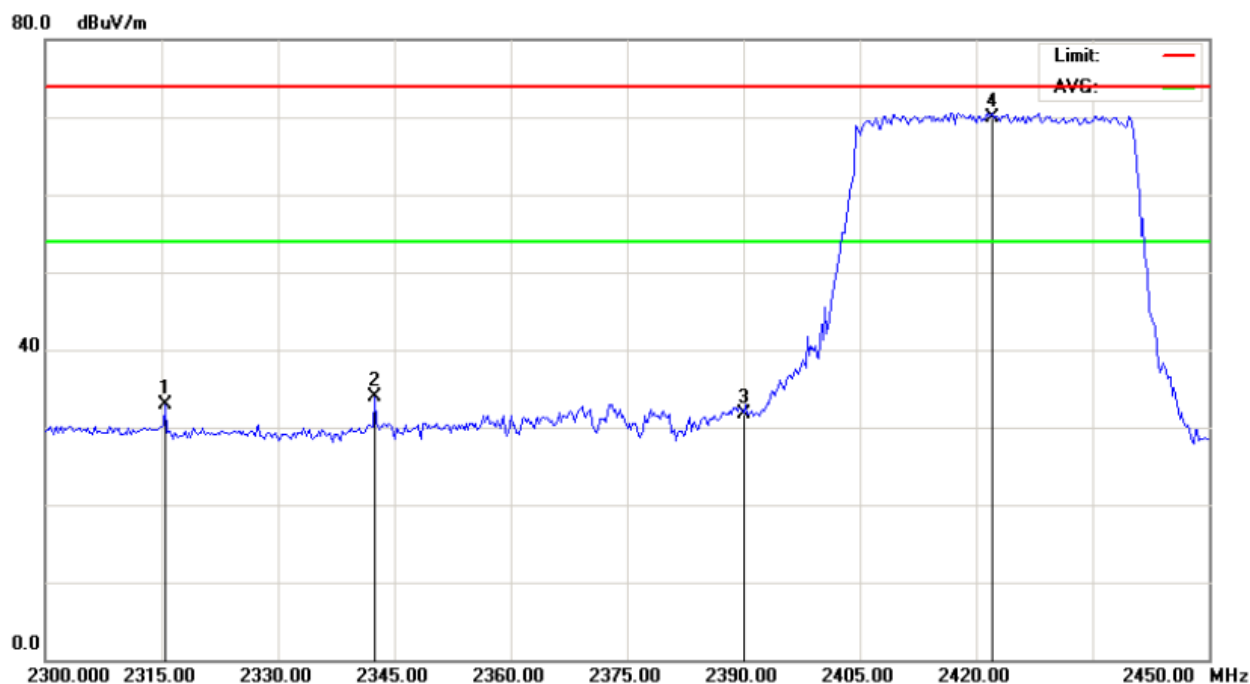
Polarization: **Horizontal**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 2314.750 | 38.39 | 0.00 | 38.39 | 74.00 | -35.61 | peak | | | |
| 2 | | 2342.250 | 38.28 | 0.00 | 38.28 | 74.00 | -35.72 | peak | | | |
| 3 | | 2390.000 | 33.24 | 0.00 | 33.24 | 74.00 | -40.76 | peak | | | |
| 4 | * | 2422.077 | 69.93 | 0.00 | 69.93 | 74.00 | -4.07 | peak | | | |

RESULT: PASS

| | | | |
|--------------------|---|--------------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40 with data rate 13.5 2422MHZ | Antenna | Vertical |



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Tablet PC
M/N: B7120LN
Mode: 802.11n(40) Low channel TX
Note:

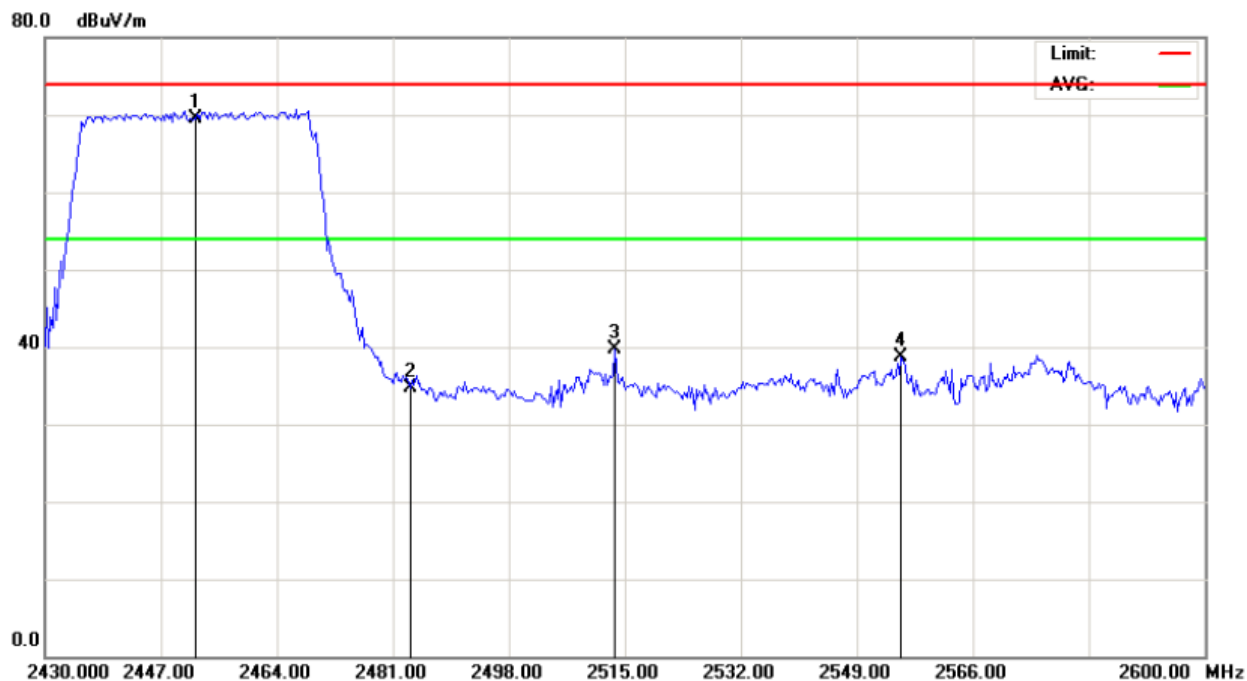
Polarization: **Vertical**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | | 2315.500 | 32.99 | 0.00 | 32.99 | 74.00 | -41.01 | peak | | | |
| 2 | | 2342.500 | 33.98 | 0.00 | 33.98 | 74.00 | -40.02 | peak | | | |
| 3 | | 2390.000 | 31.80 | 0.00 | 31.80 | 74.00 | -42.20 | peak | | | |
| 4 | * | 2422.069 | 69.87 | 0.00 | 69.87 | 74.00 | -4.13 | peak | | | |

RESULT: PASS

| | | | |
|--------------------|---|--------------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40 with data rate 13.5 2452MHZ | Antenna | Horizontal |



Site: site #1
Limit: FCC Class B 3M Radiation above 1GHZ(PK)
EUT: Tablet PC
M/N: B7120LN
Mode: 802.11n(40) High channel TX
Note:

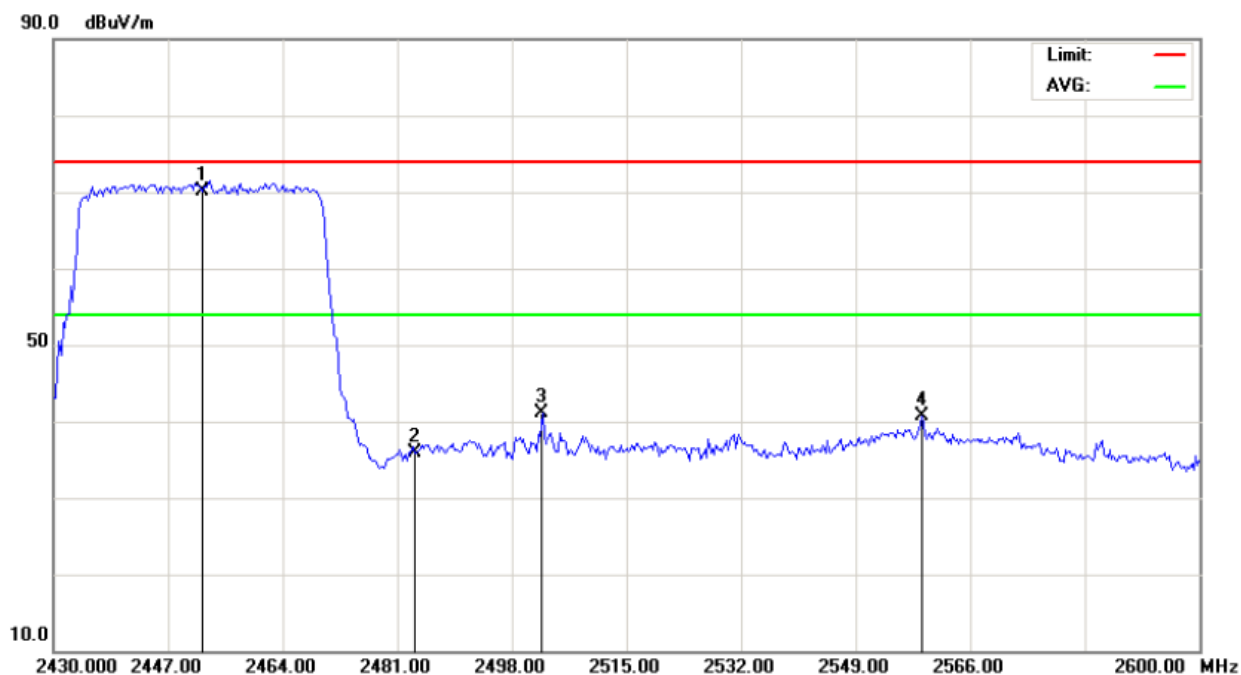
Polarization: **Horizontal**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

| No. | Mk | Freq. MHz | Reading dBuV | Factor dB/m | Measurement dBuV/m | Limit dBuV/m | Over dB | Detector | Antenna Height cm | Table Degree degree | Comment |
|-----|----|--------------|-----------------|----------------|-----------------------|-----------------|------------|----------|-------------------------|---------------------------|---------|
| 1 | * | 2452.069 | 69.50 | 0.00 | 69.50 | 74.00 | -4.50 | peak | | | |
| 2 | | 2483.500 | 34.73 | 0.00 | 34.73 | 74.00 | -39.27 | peak | | | |
| 3 | | 2513.583 | 39.71 | 0.00 | 39.71 | 74.00 | -34.29 | peak | | | |
| 4 | | 2555.517 | 38.77 | 0.00 | 38.77 | 74.00 | -35.23 | peak | | | |

RESULT: PASS

| | | | |
|--------------------|---|--------------------------|----------------|
| EUT | Tablet PC | Model Name | B7120LN |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40 with data rate 13.5 2452MHZ | Antenna | Vertical |



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance: 3m
M/N: B7120LN
Mode: 802.11n(40) High channel TX
Note:

| No. | Mk | Freq. MHz | Reading dBuV | Factor dB/m | Measurement dBuV/m | Limit dBuV/m | Over dB | Detector | Antenna Height cm | Table Degree degree | Comment |
|-----|----|--------------|-----------------|----------------|-----------------------|-----------------|------------|----------|-------------------------|---------------------------|---------|
| 1 | * | 2452.088 | 70.20 | 0.00 | 70.20 | 74.00 | -3.80 | peak | | | |
| 2 | | 2483.500 | 35.92 | 0.00 | 35.92 | 74.00 | -38.08 | peak | | | |
| 3 | | 2502.533 | 41.09 | 0.00 | 41.09 | 74.00 | -32.91 | peak | | | |
| 4 | | 2558.917 | 40.74 | 0.00 | 40.74 | 74.00 | -33.26 | peak | | | |

RESULT: PASS

Note: the other modes radiation emission have enough 20dB margin.

Measurement= Reading + Factor, Over=Measure-Limit.

13. FCC LINE CONDUCTED EMISSION TEST

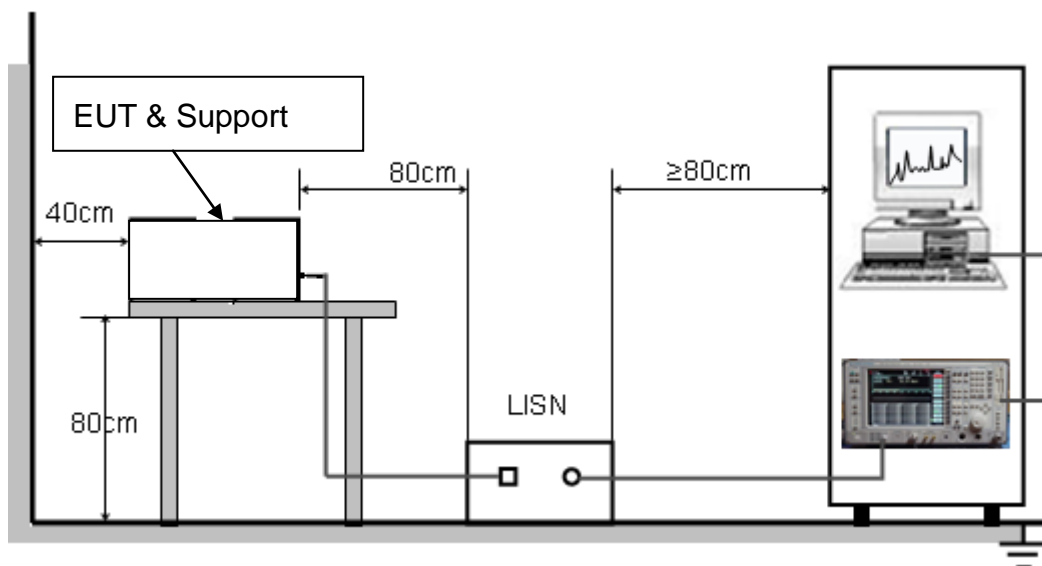
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Frequency | Maximum RF Line Voltage | |
|---------------|-------------------------|----------------|
| | Q.P.(dBuV) | Average(dBuV) |
| 150kHz~500kHz | 66-56 | 56-46 |
| 500kHz~5MHz | 56 | 46 |
| 5MHz~30MHz | 60 | 50 |

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC5V charging voltage by adapter which received 120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

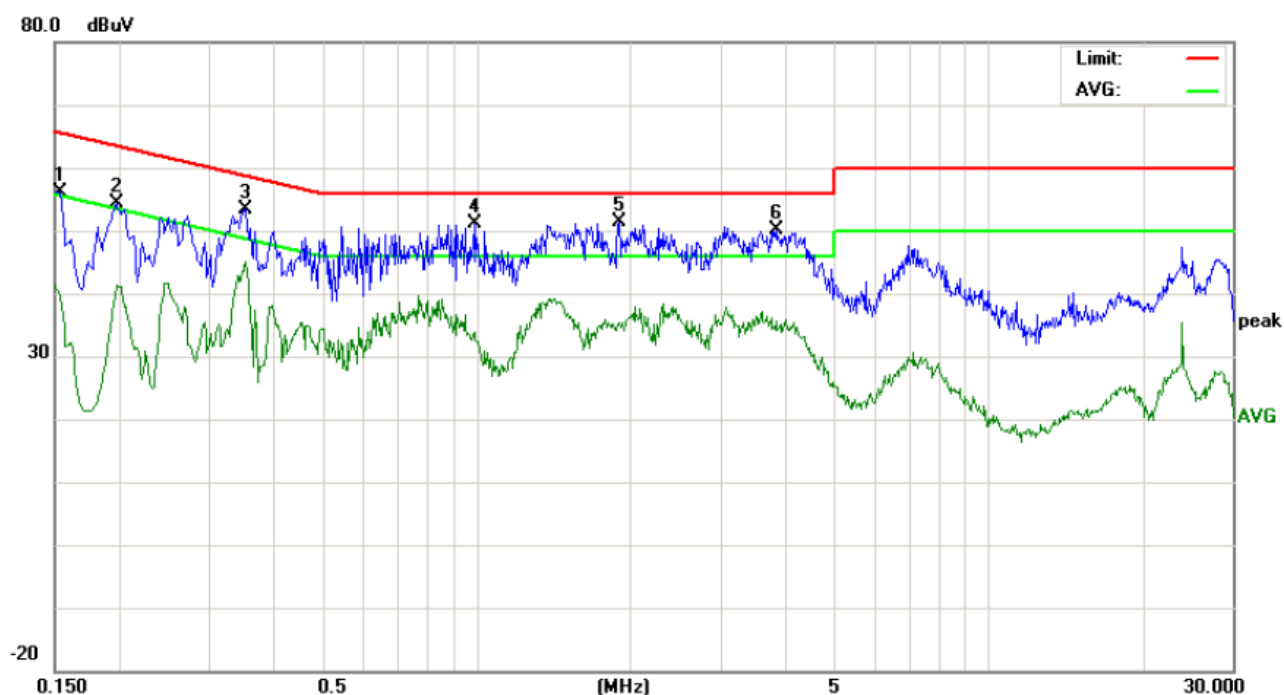
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST LINE 1-L



Site: Conduction

Phase: **L1**

Temperature: 26

Limit: FCC Class B Conduction(QP)

Power:

Humidity: 60 %

EUT: Tablet PC

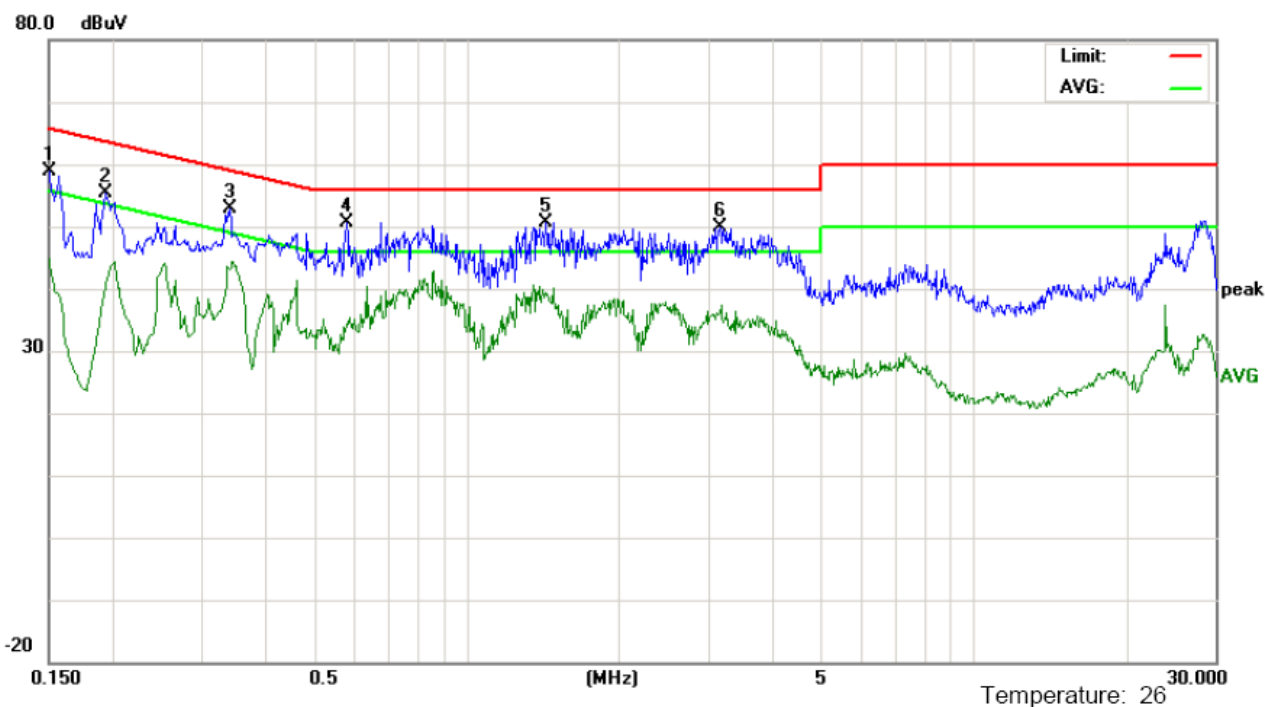
M/N: B7120LN

Mode: Normal Operating(WiFi)

Note:

| No. | Freq. (MHz) | Reading_Level (dBuV) | | | Correct Factor dB | Measurement (dBuV) | | | Limit (dBuV) | | Margin (dB) | | P/F | Comment |
|-----|-------------|----------------------|----|-------|-------------------|--------------------|----|-------|--------------|-------|-------------|--------|-----|---------|
| | | Peak | QP | AVG | | Peak | QP | AVG | QP | AVG | QP | AVG | | |
| 1 | 0.1539 | 46.04 | | 29.48 | 10.16 | 56.20 | | 39.64 | 65.78 | 55.78 | -9.58 | -16.14 | P | |
| 2 | 0.1980 | 44.22 | | 31.11 | 10.21 | 54.43 | | 41.32 | 63.69 | 53.69 | -9.26 | -12.37 | P | |
| 3 | 0.3540 | 43.05 | | 34.70 | 10.31 | 53.36 | | 45.01 | 58.87 | 48.87 | -5.51 | -3.86 | P | |
| 4 | 0.9940 | 40.85 | | 23.50 | 10.37 | 51.22 | | 33.87 | 56.00 | 46.00 | -4.78 | -12.13 | P | |
| 5 | 1.8980 | 41.11 | | 25.20 | 10.25 | 51.36 | | 35.45 | 56.00 | 46.00 | -4.64 | -10.55 | P | |
| 6 | 3.8500 | 39.78 | | 25.14 | 10.45 | 50.23 | | 35.59 | 56.00 | 46.00 | -5.77 | -10.41 | P | |

Line Conducted Emission Test Line 2-N



Site: Conduction

Phase: **N**

Humidity: 60 %

Limit: FCC Class B Conduction(QP)

Power:

EUT: Tablet PC

M/N: B7120LN

Mode: Normal Operating(WiFi)

Note:

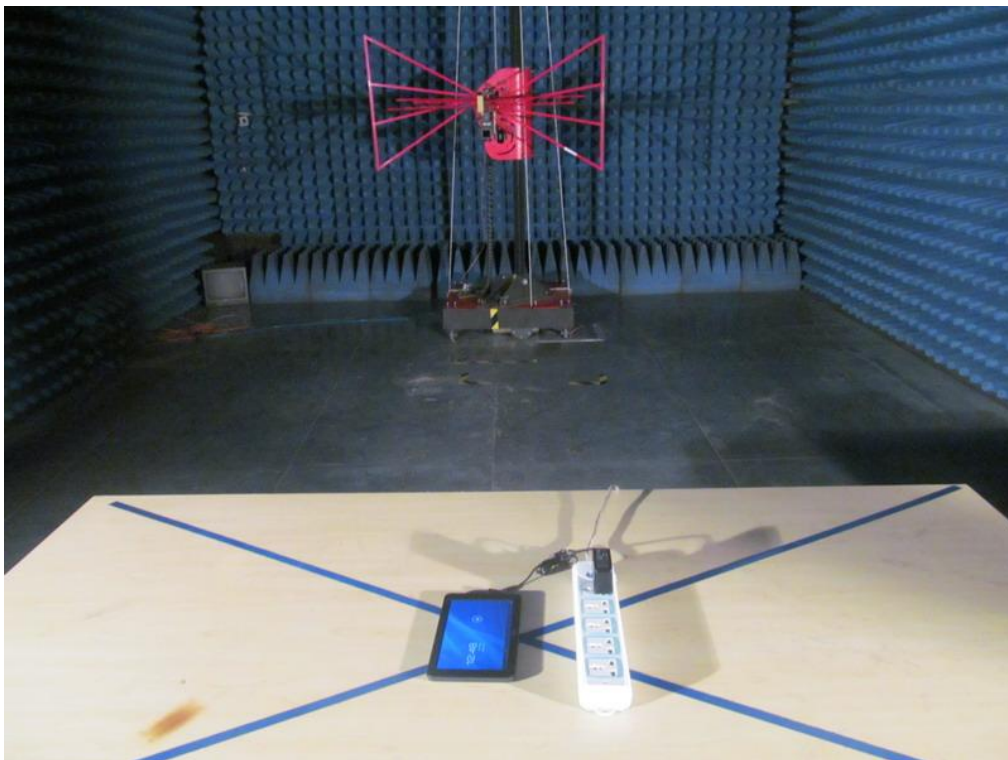
| No. | Freq. (MHz) | Reading_Level (dBuV) | | | Correct Factor dB | Measurement (dBuV) | | | Limit (dBuV) | | Margin (dB) | | P/F | Comment |
|-----|----------------|-------------------------|----|-------|-------------------------|-----------------------|----|-------|-----------------|-------|----------------|--------|-----|---------|
| | | Peak | QP | AVG | | Peak | QP | AVG | QP | AVG | QP | AVG | | |
| 1 | 0.1499 | 48.61 | | 34.66 | 10.16 | 58.77 | | 44.82 | 66.00 | 56.00 | -7.23 | -11.18 | P | |
| 2 | 0.1940 | 45.24 | | 30.37 | 10.21 | 55.45 | | 40.58 | 63.86 | 53.86 | -8.41 | -13.28 | P | |
| 3 | 0.3420 | 42.45 | | 32.94 | 10.31 | 52.76 | | 43.25 | 59.15 | 49.15 | -6.39 | -5.90 | P | |
| 4 | 0.5820 | 40.31 | | 24.09 | 10.33 | 50.64 | | 34.42 | 56.00 | 46.00 | -5.36 | -11.58 | P | |
| 5 | 1.4380 | 40.34 | | 29.04 | 10.38 | 50.72 | | 39.42 | 56.00 | 46.00 | -5.28 | -6.58 | P | |
| 6 | 3.1619 | 39.25 | | 25.49 | 10.54 | 49.79 | | 36.03 | 56.00 | 46.00 | -6.21 | -9.97 | P | |

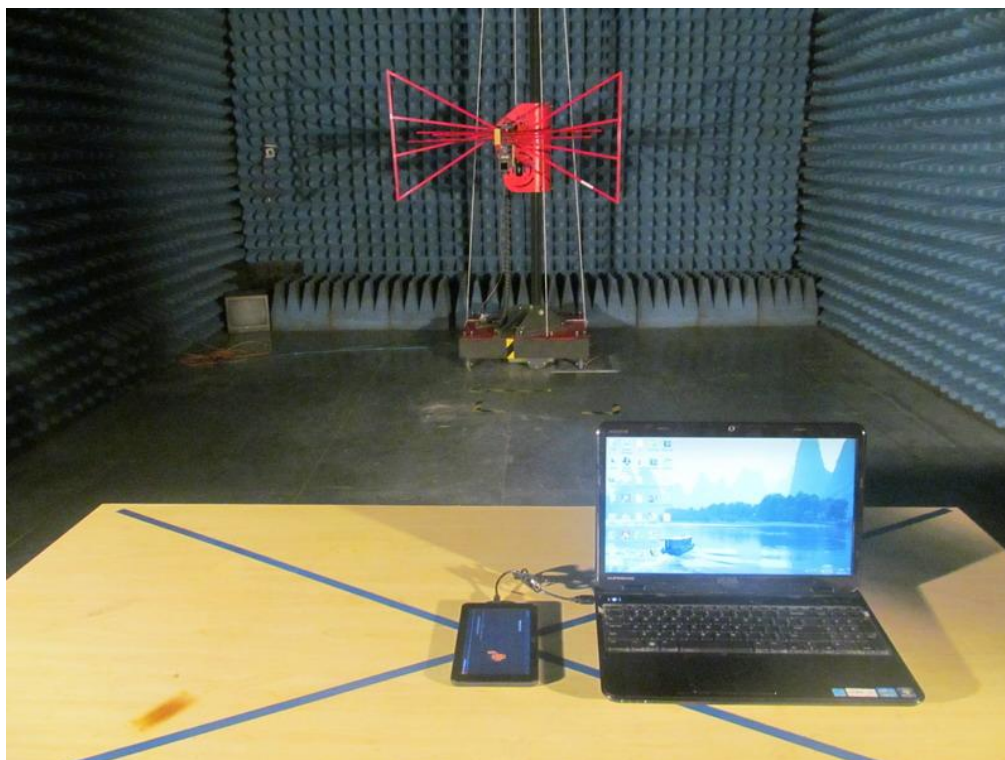
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP





APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



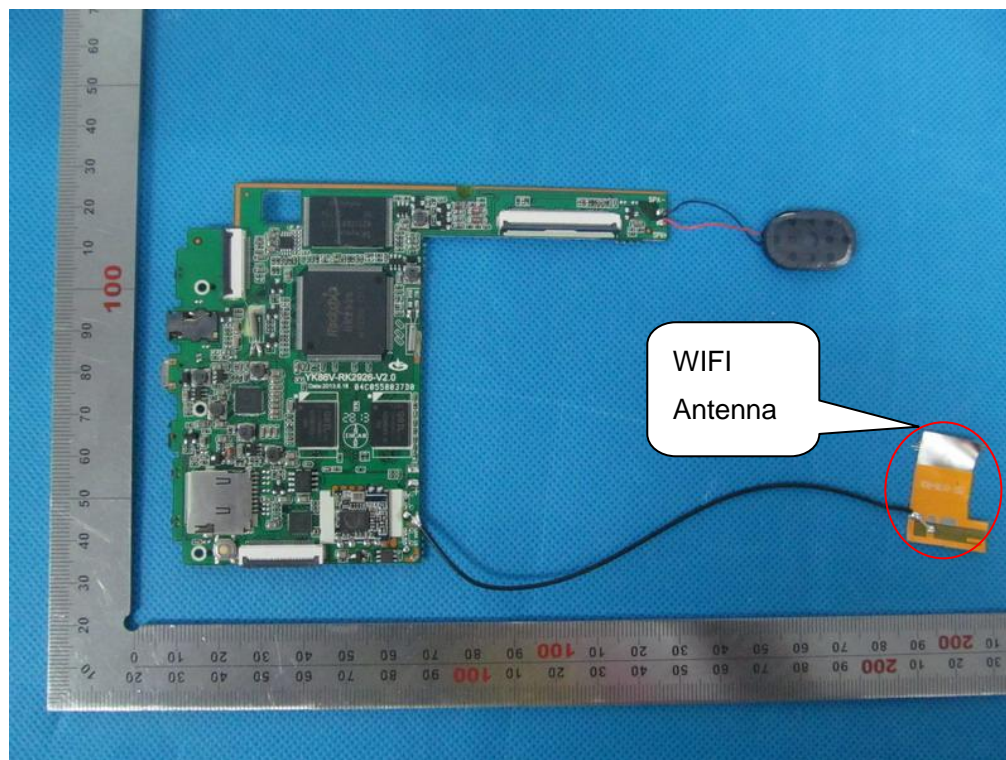
RIGHT VIEW OF EUT



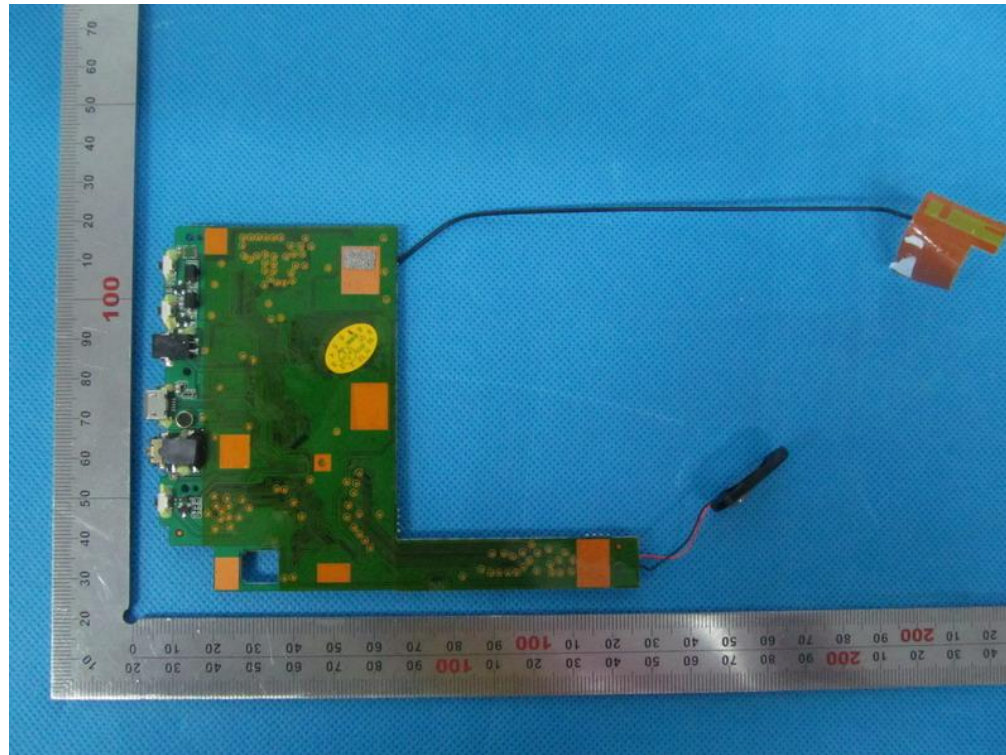
OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



----END OF REPORT--