

Full

TEST REPORT

No. 2014RFW0089

For

Client: VSN Technologies Inc. d/b/a VSN Mobil

Production: WCDMA Digital Mobile Phone

Model Name: V.35 / Nextel V.35

FCC ID: 2AA9WV1001

Model Number: V1001

Hardware Version: V01

Software Version: V01

Issued date: 2014-08-15

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of ECIT Shanghai.

Test Laboratory:

ECIT Shanghai, East China Institute of Telecommunications

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Revision Version

Report No.: 2014RFW0089

| Report Number | Revision | Date | Memo |
|---------------|----------|------------|------------------------------------|
| 2014RFW0089 | 00 | 2014-07-22 | Initial creation of test report |
| 2014RFW0089 | 01 | 2014-08-08 | Second creation of test report |
| 2014RFW0089 | 02 | 2014-08-14 | Third creation of test report |
| 2014RFW0089 | 03 | 2014-08-15 | The fourth creation of test report |

East China Institute of Telecommunications Page Number : 2 of 54 TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued Date : Aug 15, 2014



CONTENTS Report No.: 2014RFW0089

Page Number : 3 of 54 Report Issued Date : Aug 15, 2014

| 1. | TEST LABORATORY | 5 |
|--------|---|----|
| 1.1. | TESTING LOCATION | 5 |
| 1.2. | TESTING ENVIRONMENT | 5 |
| 1.3. | PROJECT DATA | 5 |
| 1.4. | SIGNATURE | 5 |
| 2. | CLIENT INFORMATION | 6 |
| 2.1. | APPLICANT INFORMATION | 6 |
| 2.2. | MANUFACTURER INFORMATION | 6 |
| 3. | EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE) | 7 |
| 3.1. | ABOUT EUT | 7 |
| 3.2. | INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST | 7 |
| 3.3. | INTERNAL IDENTIFICATION OF AE USED DURING THE TEST | 7 |
| 4. | REFERENCE DOCUMENTS | 8 |
| 4.1. | REFERENCE DOCUMENTS FOR TESTING | 8 |
| 5. | SUMMARY OF TEST RESULTS | 9 |
| 5.1. | NOTES | 10 |
| 5.2. | STATEMENTS | 11 |
| 6. | TEST RESULT | 12 |
| 6.1. | MAXIMUM OUTPUT POWER | 12 |
| 6.1.1. | MAXIMUM PEAK OUTPUT POWER-CONDUCTED | 12 |
| 6.1.2. | MAXIMUM AVERAGE OUTPUT POWER-CONDUCTED | 13 |
| 6.2. | PEAK POWER SPECTRAL DENSITY | 14 |
| 6.3. | OCCUPIED 6DB BANDWIDTH | 19 |
| 6.4. | BAND EDGES COMPLIANCE | 25 |
| 6.5. | TRANSMITTER SPURIOUS EMISSION-CONDUCTED | 28 |



| ECI | т | RF Test Report | Report No.: 2014RFW0089 |
|-------|------|-------------------------------------|-------------------------|
| 6.6. | TRAN | SMITTER SPURIOUS EMISSION-RADIATED | 39 |
| 7. | TEST | EQUIPMENTS AND ANCILLARIES USED FOR | TESTS51 |
| 8. | TEST | ENVIRONMENT | 52 |
| ANNEX | A. | DEVIATIONS FROM PRESCRIBED TEST MET | HODS54 |

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 4 of 54 Report Issued Date : Aug 15, 2014



1. Test Laboratory

1.1. Testing Location

| Company Name: | ECIT Shanghai, East China Institute of Telecommunications |
|---------------|---|
| Address: | 7-8F, G Area, No. 668, Beijing East Road, Huangpu District, |
| | Shanghai, P. R. China |
| Postal Code: | 200001 |
| Telephone: | (+86)-021-63843300 |
| Fax: | (+86)-021-63843301 |

1.2. Testing Environment

| Normal Temperature: | 15-35℃ |
|----------------------|----------|
| Extreme Temperature: | -10/+55℃ |
| Relative Humidity: | 20-75% |

1.3. Project data

| Project Leader: | Wangyaqiong |
|---------------------|-------------|
| Testing Start Date: | 2014-06-01 |
| Testing End Date: | 2014-08-14 |

1.4. Signature

Wang Daming

(Prepared this test report)

Liu Jianquan

Report No.: 2014RFW0089

(Reviewed this test report)

Zheng Zhongbin Director of the laboratory

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: VSN Technologies Inc. d/b/a VSN Mobile

Address: 1975 E. Sunrise Blvd. Suite 400, Fort Lauderdale FL

Contact Person: Amit Verma
Telephone: 954-609-4912

Postcode: 33304

2.2. Manufacturer Information

Company Name: MOBIWIRE MOBILES (NINGBO) CO.,LTD

Address: No.999, Dacheng East Road, Fenghua City, Zhejiang

Contact Person: Xu linzhong
Telephone: 0574 88916450

Postcode: 315500

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 6 of 54 Report Issued Date : Aug 15, 2014

Report No.: 2014RFW0089

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

Report No.: 2014RFW0089

3.1. About EUT

| EUT Description | WCDMA Dual-Mode Digital Mobile Phone |
|-------------------------|--------------------------------------|
| Model name | V.35 / Nextel V.35 |
| WLAN Frequency | 2400MHz-2483.5MHz |
| WLAN Channel | Channel1-Channel11 |
| WLAN type of modulation | 802.11b:DSSS |
| | 802.11g/n: OFDM |
| Extreme Temperature | -10/+55℃ |
| Nominal Voltage | 3.7V |
| Extreme High Voltage | 4.2V |
| Extreme Low Voltage | 3.5V |

Note: Photographs of EUT are shown in ANNEX A of this test report.

3.2. Internal Identification of EUT used during the test

| EUT ID* | SN or IMEI | HW Version | SW Version | Date of receipt |
|---------|-----------------|------------|------------|-----------------|
| N01 | 354043060003102 | V01 | V01 | 2014-06-01 |

^{*}EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

| AE ID* | Description | SN |
|--------|-------------|----|
| AE1 | RF cable | |
| AE2 | | |

^{*}AE ID: is used to identify the test sample in the lab internally.

East China Institute of Telecommunications Page Number : 7 of 54
TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued Date : Aug 15, 2014



4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

| Reference | Title | Version |
|------------|--|---------|
| | FCC CFR 47, Part 15,Subpart C: | |
| | 15.205 Restricted bands of operation; | |
| FCC Part15 | 15.209 Radiated emission limits, general requirements; | 2014 |
| | 15.247 Operation within the bands 902-928MHz, | |
| | 2400-2483.5MHz, and 5725-5850MHz. | |
| | Methods of Measurement of Radio-Noise Emissions from | |
| ANSI 63.10 | Low-Voltage Electrical and Electronic Equipment in the | 2009 |
| | Range of 9KHz to 40GHz | |

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301

Page Number : 8 of 54 Report Issued Date : Aug 15, 2014

Report No.: 2014RFW0089



5. Summary of Test Results

A brief summary of the tests carried out is shown as following.

| Measurement Items | Sub-clause of Part15C | Sub-claus e of IC | Verdict |
|---|--------------------------|----------------------|---------|
| Maximum Peak Output Power | 15.247(a) | / | Р |
| Peak Power Spectral Density | 15.247(e) | / | Р |
| Occupied 6dB Bandwidth | 15.247(d) | / | Р |
| Band Edges Compliance | 15.247(b) | / | Р |
| Transmitter Spurious Emission-Conducted | 15.247 | / | Р |
| Transmitter Spurious Emission-Radiated | 15.247,15.209, | / | Р |
| AC Powerline Conducted Emission | 15.107,15.207 | / | Р |

Please refer to part 5 for detail.

The measurements are according to ANSI 63.10.

Terms used in Verdict column

| Р | Pass, the EUT complies with the essential requirements in the standard. |
|----|--|
| NP | Not Perform, the test was not performed by ECIT. |
| NA | Not Applicable, the test was not applicable. |
| F | Fail, the EUT does not comply with the essential requirements in the standard. |

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 9 of 54 Report Issued Date : Aug 15, 2014

Report No.: 2014RFW0089



Test Conditions

| Tnom | Normal temperature |
|------|--------------------|
| Tmin | Low Temperature |
| Tmax | High Temperature |
| Vnom | Normal Voltage |
| Vmin | Low Voltage |
| Vmax | High Voltage |
| Hnom | Norm Humidity |
| Anom | Norm Air Pressure |

Report No.: 2014RFW0089

For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

| Temperature | Tnom | 22 ℃ |
|--------------|------|-------------|
| Voltage | Vnom | 3.7V |
| Humidity | Hnom | 32% |
| Air Pressure | Anom | 1010hPa |

5.1. Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with section 3.

The test results of this test report relate exclusively to the item(s) tested as specified in section 5.

The following deviation from, additions to, or exclusions from the test specifications have been made. See section 3.

Page Number

: 10 of 54

Report Issued Date : Aug 15, 2014



5.2. Statements

The product name V.35 / Nextel V.35, supporting GSM/GPRS /WCDMA/HSDPA/HSUPA/HSPA+/BT/WLAN, manufactured by MOBIWIRE MOBILES (NINGBO) CO.,LTD is a new product for testing.

Report No.: 2014RFW0089

Note: All tests were carried out while using a fully battery charged.

ECIT has verified that the compliance of the tested device specified in section 5 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 5 of this test report.

East China Institute of Telecommunications P TEL: +86 21 63843300 FAX: +86 21 63843301 R

Page Number : 11 of 54 Report Issued Date : Aug 15, 2014



6. Test result

6.1. **Maximum Output Power**

Measurement Limit and method:

| Standard | Limit(dBm) |
|-------------------|------------|
| FCC CRF 15.247(b) | < 30 |

Report No.: 2014RFW0089

The measurement is according to ANSI 63.10. EUT is operated in continuous transmitting

Measurement Uncertainty:

6.1.1. Maximum Peak Output Power-conducted

Measurement Results:

802.11b/g mode

| Mode | Data | Teat Result(dBm) | | |
|----------|------------|------------------|--------------|---------------|
| | Rate(Mbps) | 2412MHz(Ch1) | 2437MHz(Ch6) | 2462MHz(Ch11) |
| | 1 | 7.08 | 8.26 | 6.72 |
| 802.11b | 2 | 6.53 | 7.98 | 6.18 |
| 802.110 | 5.5 | 6.26 | 7.85 | 6.70 |
| | 11 | 6.45 | 7.40 | 6.59 |
| | 6 | 9.23 | 9.35 | 8.14 |
| | 9 | 9.20 | 9.41 | 8.52 |
| | 12 | 8.91 | 9.15 | 8.07 |
| 902 11 a | 18 | 8.74 | 9.51 | 8.10 |
| 802.11g | 24 | 9.46 | 9.89 | 8.20 |
| | 36 | 9.69 | 9.99 | 8.91 |
| | 48 | 9.01 | 9.38 | 8.24 |
| | 54 | 9.24 | 9.32 | 8.64 |

The data rate 1Mbps and 36Mbps are selected as worse condition, and the following cases are performed with this condition.

East China Institute of Telecommunications Page Number : 12 of 54 Report Issued Date : Aug 15, 2014 TEL: +86 21 63843300 FAX: +86 21 63843301

802.11n mode

| Mada | Data | Teat Result(dBm) | | |
|---------------------|-------------|------------------|--------------|---------------|
| Mode | Rate(Index) | 2412MHz(Ch1) | 2437MHz(Ch6) | 2462MHz(Ch11) |
| | MCS0 | 5.84 | 5.24 | 5.76 |
| | MCS1 | 5.92 | 5.36 | 5.17 |
| | MCS2 | 5.43 | 6.13 | 5.08 |
| 002 44 m (20ML I=) | MCS3 | 5.89 | 6.08 | 5.02 |
| 802.11n(20MHz) | MCS4 | 9.47 | 9.75 | 8.97 |
| | MCS5 | 9.74 | 10.08 | 9.07 |
| | MCS6 | 9.32 | 9.07 | 9.00 |
| | MCS7 | 9.32 | 9.98 | 8.94 |
| | MCS0 | / | / | / |
| | MCS1 | / | / | / |
| | MCS2 | / | / | / |
| 000 44 = (40041 1=) | MCS3 | / | / | / |
| 802.11n(40MHz) | MCS4 | / | / | / |
| | MCS5 | / | / | / |
| | MCS6 | / | / | / |
| | MCS7 | / | / | / |

The data rate MCS5 is selected as worse condition, and the following case are performed with this condition.

6.1.2. Maximum Average Output Power-conducted

802.11b/g mode

| Mode | Test Result(dBm) | | | |
|---------|------------------|--------------|---------------|--|
| Mode | 2412MHz(Ch1) | 2437MHz(Ch6) | 2462MHz(Ch11) | |
| 802.11b | 4.72 | 4.82 | 3.65 | |
| 802.11g | 2.71 | 2.65 | 1.62 | |

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 13 of 54 Report Issued Date : Aug 15, 2014

Report No.: 2014RFW0089



802.11n mode

| Mode | Test Result(dBm) | | | |
|----------------|------------------|--------------|---------------|--|
| Mode | 2412MHz(Ch1) | 2437MHz(Ch6) | 2462MHz(Ch11) | |
| 802.11n(20MHz) | 2.94 | 2.75 | 1.79 | |
| 802.11n(40MHz) | / | / | / | |

Report No.: 2014RFW0089

Conclusion: PASS

6.2. Peak Power Spectral Density

Measure Limit:

| Standard | Limit |
|------------------------|--------------|
| FCC CFR Part 15.247(e) | < 8dBm/3 KHz |

The measurement is according to ANSI 63.10 D01 DTS V03.

Test procedures:

- 1. Connect the EUT to spectrum analyzer.
- 2. Set RBW=3KHz, VBW=10KHz, span more than 1.5 times channel bandwidth.
- 3. Detector =peak, sweep time=auto couple, trace mode=max hold.

Measurement Uncertainty:

| Measurement Uncertainty | 0.75dB |
|-------------------------|--------|
| | |

Measreement Results:

802.11b/g mode

| Mode | Channel | Power Spectral Density(dBm/3kHz) | | Conclusion |
|---------|---------|-------------------------------------|--------|------------|
| | 1 | Fig.1 | -16.55 | Р |
| 802.11b | 6 | Fig.2 | -21.63 | Р |
| | 11 | Fig.3 | -22.12 | Р |
| | 1 | Fig.4 | -20.69 | Р |
| 802.11g | 6 | Fig.5 | -20.38 | Р |
| | 11 | Fig.6 | -20.70 | Р |

East China Institute of Telecommunications Page Number : 14 of 54 TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued Date : Aug 15, 2014

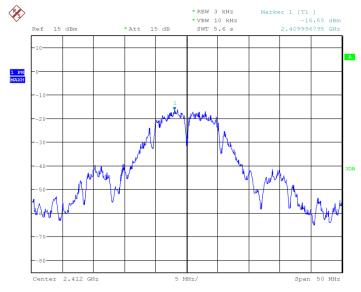
802.11n mode

| Mode | Channel | Power Spectral Density(dBm/3kHz) | | Conclusion |
|----------------|---------|-------------------------------------|--------|------------|
| | 1 | Fig.7 | -21.98 | Р |
| 802.11n(20MHz) | 6 | Fig.8 | -22.61 | Р |
| | 11 | Fig.9 | -22.74 | Р |

Report No.: 2014RFW0089

| 802.11g(40MHz) | 1 | 1 | / | Р |
|----------------|----|---|---|---|
| | 6 | / | / | Р |
| | 11 | 1 | / | Р |

Conclusion: PASS
Test graphs as below:

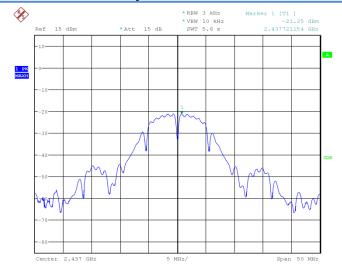


Date: 7.AUG.2014 20:08:26

Fig.1 Power Spectral Density (802.1b,Ch1)

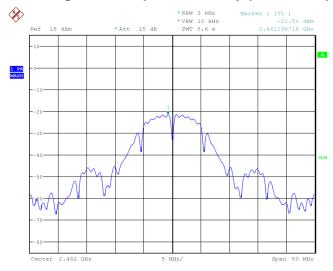
East China Institute of Telecommunications Page Number : 15 of 54 TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued Date : Aug 15, 2014





Date: 14.AUG.2014 10:59:44

Fig.2 Power Spectral Density (802.1b,Ch6)



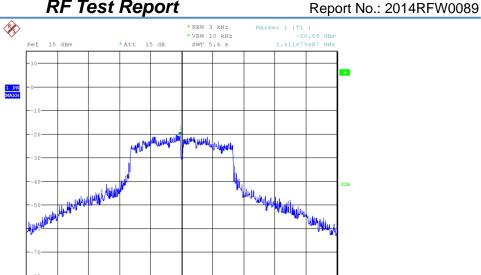
Date: 14.AUG.2014 11:00:20

Fig.3 Power Spectral Density (802.1b,Ch11)

Page Number

: 16 of 54

Report Issued Date : Aug 15, 2014

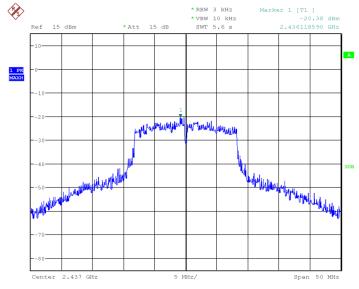


Date: 7.AUG.2014 20:11:42

Center 2.412 GHz

Fig.4 Power Spectral Density (802.1g,Ch1)

Span 50 MHz



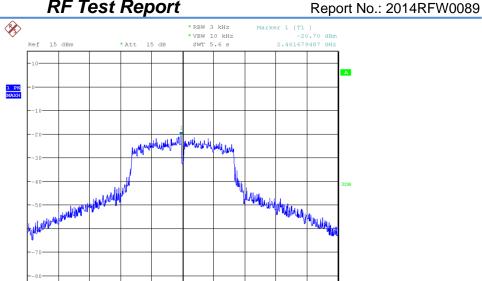
Date: 7.AUG.2014 20:12:14

Fig.5 Power Spectral Density (802.1g,Ch6)

Page Number

: 17 of 54

Report Issued Date : Aug 15, 2014

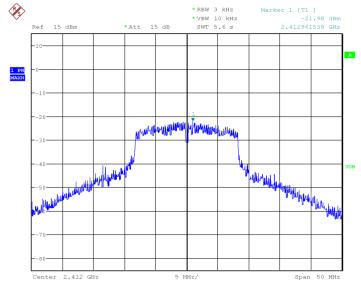


Date: 7.AUG.2014 20:12:44

Center 2.462 GHz

Fig.6 Power Spectral Density (802.1g,Ch11)

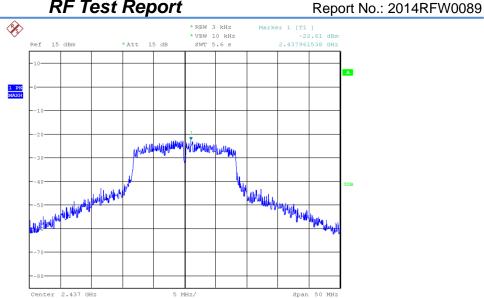
Span 50 MHz



Date: 7.AUG.2014 20:13:24

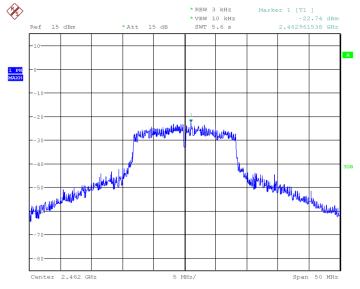
Fig.7 Power Spectral Density (802.1n-20MHz,Ch1)

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 18 of 54 Report Issued Date : Aug 15, 2014



Date: 7.AUG.2014 20:14:09

Fig.8 Power Spectral Density (802.1n-20MHz,Ch6)



Date: 7.AUG.2014 20:14:35

Fig.9 Power Spectral Density (802.1n-20MHz,Ch11)

6.3. Occupied 6dB Bandwidth

Measurement Limit:

| Standard | Limit(KHz) |
|---------------------------|------------|
| FCC 47 CFR Part 15.247(a) | ≥500 |

The measurement is according to ANSI 63.10.

Measurement Uncertainty:

East China Institute of Telecommunications Page Number : 19 of 54 TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued Date : Aug 15, 2014



| | · |
|-------------------------|---------|
| Measurement Uncertainty | 60.80Hz |

Report No.: 2014RFW0089

Test procedures:

- 1. Connect the EUT to spectrum analyzer.
- 2. Set RBW=100KHz, VBW=300KHz, span more than 1.5 times channel bandwidth.
- 3. Detector =peak, sweep time=auto couple, trace mode=max hold.

Measurement Result:

802.11b/g mode

| Mode | Channel | Occupied 6dB Bandwidth(KHz) | | Conclusion |
|---------|---------|-----------------------------|-------|------------|
| | 1 | Fig.10 | 9.29 | Р |
| 802.11b | 6 | Fig.11 | 9.86 | Р |
| | 11 | Fig.12 | 10.02 | Р |
| | 1 | Fig.13 | 16.57 | Р |
| 802.11g | 6 | Fig.14 | 16.66 | Р |
| | 11 | Fig.15 | 16.66 | Р |

802.11n mode

| 002:1111 111000 | | | | |
|-----------------|---------|-----------------------------|-------|------------|
| Mode | Channel | Occupied 6dB Bandwidth(KHz) | | Conclusion |
| | 1 | Fig.16 | 16.66 | Р |
| 802.11n(20MHz) | 6 | Fig.17 | 16.66 | Р |
| | 11 | Fig.18 | 16.66 | Р |
| | 1 | / | | Р |
| 802.11n(40MHz) | 6 | 1 | | Р |
| | 11 | 1 | | Р |

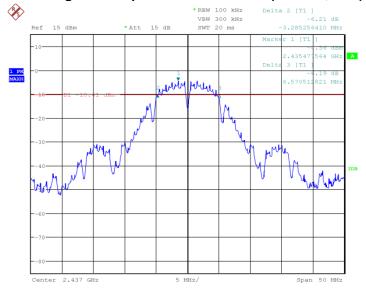
Conclusion: PASS
Test graphs as below:

East China Institute of Telecommunications Page Number : 20 of 54 TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued Date : Aug 15, 2014



Date: 4.JUN.2014 16:01:44

Fig.10 Occupied 6dB Bandwidth (802.11b, Ch1)



Date: 4.JUN.2014 16:06:04

Fig.11 Occupied 6dB Bandwidth (802.11b, Ch6)

Page Number

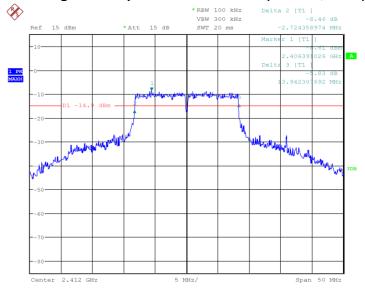
: 21 of 54

Report Issued Date : Aug 15, 2014



Date: 4.JUN.2014 16:08:46

Fig.12 Occupied 6dB Bandwidth (802.11b, Ch11)

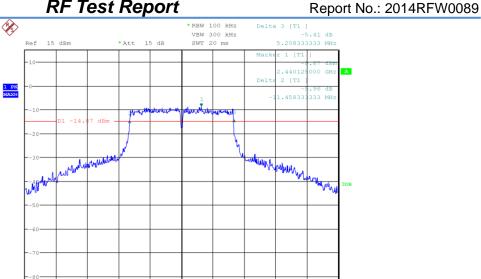


Date: 4.JUN.2014 16:12:44

Fig.13 Occupied 6dB Bandwidth (802.11g, Ch1)

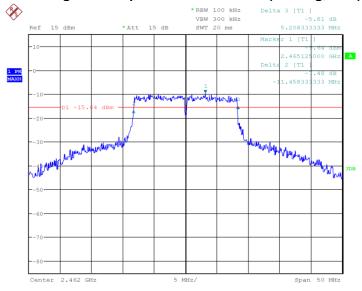
: 22 of 54

East China Institute of Telecommunications Page Number TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued Date : Aug 15, 2014



Date: 4.JUN.2014 16:15:17

Fig.14 Occupied 6dB Bandwidth (802.11g, Ch6)



Date: 4.JUN.2014 16:18:01

Fig.15 Occupied 6dB Bandwidth (802.11g, Ch11)

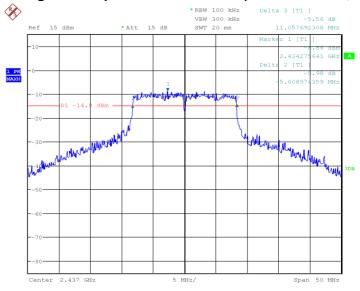
East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301

Page Number : 23 of 54 Report Issued Date : Aug 15, 2014



Date: 4.JUN.2014 16:21:17

Fig.16 Occupied 6dB Bandwidth (802.11n-20MHz, Ch1)

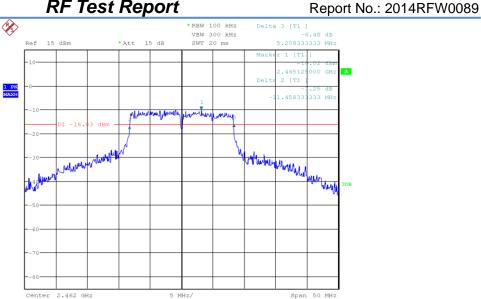


Date: 4.JUN.2014 16:23:03

Fig.17 Occupied 6dB Bandwidth (802.11n-20MHz, Ch6)

: 24 of 54





Date: 4.JUN.2014 16:24:41

Fig.18 Occupied 6dB Bandwidth (802.11n-20MHz, Ch11)

6.4. Band Edges Compliance

Measurement Limit:

| Standard | Limited(dBc) | |
|---------------------------|--------------|--|
| FCC 47 CFR Part 15.247(d) | >20 | |

The measurement is according to ANSI 63.10.

Measurement Uncertainty:

| Measurement Uncertainty | 0.75dB |
|-------------------------|--------|
| | |

Test procedures:

- 1. Connect the EUT to spectrum analyzer.
- 2. Set RBW=100KHz, VBW=300KHz.
- 3. Detector =peak, sweep time=auto couple, trace mode=max hold.

802.11b/g mode

| Mode | Channel | Test Results | Conclusion |
|---------|---------|--------------|------------|
| 802.11b | 1 | Fig.19 | Р |
| | 11 | Fig.20 | Р |
| 802.11g | 1 | Fig.21 | Р |
| | 11 | Fig.22 | Р |

802.11n mode

| Mode | Channel | Test Results | Conclusion |
|------|---------|--------------|------------|
|------|---------|--------------|------------|

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301

Page Number : 25 of 54 Report Issued Date : Aug 15, 2014



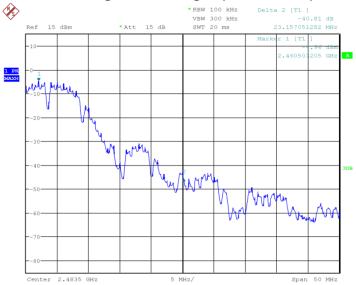
| | | · · · · · · · · · · · · · · · · · · · | |
|----------------------|----|---------------------------------------|---|
| 000 44 ~ (000 41 1~) | 1 | Fig.23 | Р |
| 802.11n(20MHz) | 11 | Fig.24 | Р |
| 000 44 (40 MI I-) | / | / | / |
| 802.11(40MHz) | / | / | / |

Conclusion: PASS
Test graphs as blew:



Date: 4.JUN.2014 16:30:16

Fig.19 Band Edges (802.11b, Ch1)



Date: 4.JUN.2014 16:31:51

Fig.20 Band Edges (802.11b, Ch11)

East China Institute of Telecommunications Page Number TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued

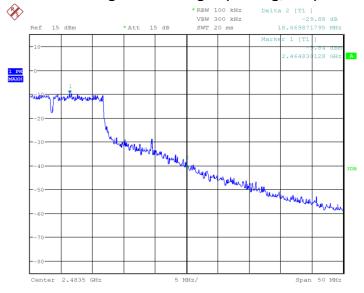
Page Number : 26 of 54 Report Issued Date : Aug 15, 2014

Report No.: 2014RFW0089



Date: 4.JUN.2014 16:34:04

Fig.21 Band Edges (802.11g, Ch1)



Date: 4.JUN.2014 16:35:31

Fig.22 Band Edges (802.11g, Ch11)

: 27 of 54

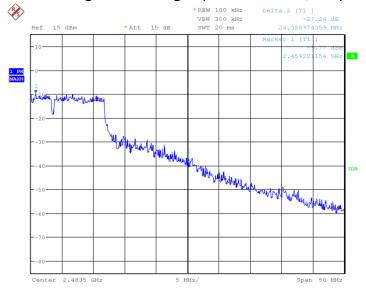
Report Issued Date : Aug 15, 2014

Page Number



Date: 4.JUN.2014 16:36:35

Fig.23 Band Edges (802.11n-20MHz, Ch1)



Date: 4.JUN.2014 16:37:36

Fig.24 Band Edges (802.11b-20MHz, Ch11)

6.5. Transmitter Spurious Emission-conducted

Measurement Limit:

| Standard | Limit | |
|-----------------------------|--|--|
| FCC 47 CFR Part 15.247(d) | 20dB below peak output power in 100KHz | |
| 1 60 47 61 K Fait 15.247(d) | bandwidth | |

: 28 of 54

This measurement is according to ANSI 63.10.

Measurement Uncertainty:

East China Institute of Telecommunications Page Number TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued Date : Aug 15, 2014



| | · |
|-----------------|-------------|
| Frequency Range | Uncertainty |
| 30MHz≤ f ≤2GHz | 0.63 |
| 2GHz≤ f ≤3.6GHz | 0.82 |
| 3.6GHz≤ f ≤8GHz | 1.55 |
| 8GHz≤ f ≤20GHz | 1.86 |
| 20GHz≤ f ≤22GHz | 1.90 |
| 22GHz≤ f ≤26GHz | 2.20 |

Report No.: 2014RFW0089

Test procedures:

- 1. Connect the EUT to spectrum analyzer.
- 2. Set RBW=100KHz, VBW=300KHz.
- 3. Detector =peak, sweep time=auto couple, trace mode=max hold.

Measurement Result:

802.11b/g mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|---------|---------|-----------------|--------------|------------|
| 802.11b | 1 | 2.412GHz | Fig.25 | Р |
| | | 30MHz~26GHz | Fig.26 | Р |
| | 6 | 2.437GHz | Fig.27 | Р |
| | | 30MHz~26GHz | Fig.28 | Р |
| | 11 | 2.472GHz | Fig.29 | Р |
| | | 30MHz~26GHz | Fig.30 | Р |
| 802.11g | 1 | 2.412GHz | Fig.31 | Р |
| | | 30MHz~26GHz | Fig.32 | Р |
| | 6 | 2.437GHz | Fig.33 | Р |
| | | 30MHz~26GHz | Fig.34 | Р |
| | 11 | 2.472GHz | Fig.35 | Р |
| | | 30MHz~26GHz | Fig.36 | Р |

802.11n mode



| Mode | Channel | Frequency Range | Test Results | Conclusion |
|----------------|---------|-----------------|--------------|------------|
| 802.11n(20MHz) | 1 | 2.412GHz | Fig.37 | Р |
| | | 30MHz~26GHz | Fig.38 | Р |
| | 6 | 2.437GHz | Fig.39 | Р |
| | | 30MHz~26GHz | Fig.40 | Р |
| | 11 | 2.472GHz | Fig.41 | Р |
| | | 30MHz~26GHz | Fig.42 | Р |
| 802.11n(40MHz) | 1 | / | / | / |
| | | / | / | / |
| | 6 | 1 | / | / |
| | | 1 | | / |
| | 11 | / | / | / |
| | | / | | / |

Conclusion: PASS
Test graphs as below:

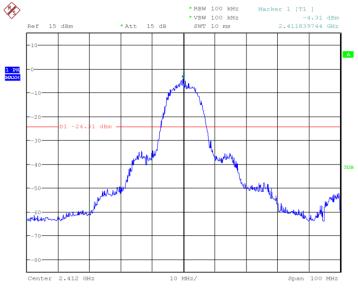


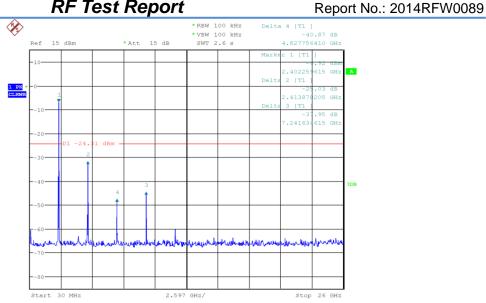
Fig.25 Conducted Spurious Emission (802.11b, Ch1)

East China Institute of Telecommunications Page Nur TEL: +86 21 63843300 FAX: +86 21 63843301 Report Is

Date: 24.JUN.2014 14:02:13

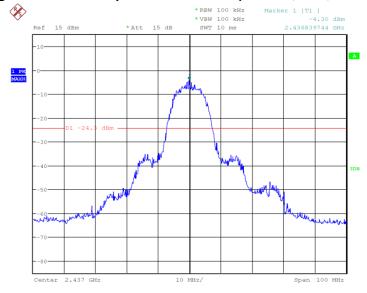
Page Number : 30 of 54 Report Issued Date : Aug 15, 2014

Report No.: 2014RFW0089



Date: 24.JUN.2014 14:03:27

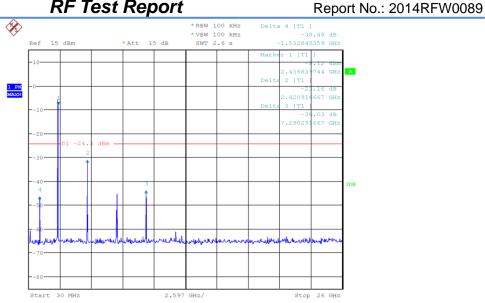
Fig.26 Conducted Spurious Emission (802.11b, Ch1, 30MHz~26GHz)



Date: 24.JUN.2014 14:04:44

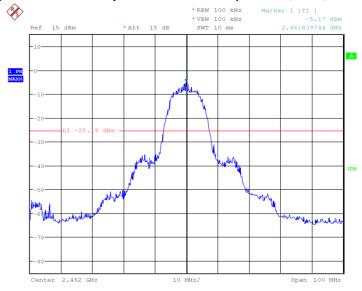
Fig.27 Conducted Spurious Emission (802.11b, Ch6)

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 31 of 54 Report Issued Date : Aug 15, 2014



Date: 24.JUN.2014 14:05:14

Fig.28 Conducted Spurious Emission (802.11b, Ch6, 30MHz~26GHz)



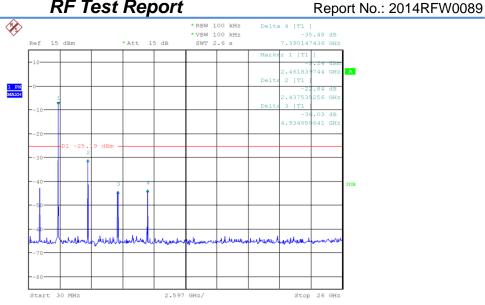
Date: 24.JUN.2014 14:06:18

Fig.29 Conducted Spurious Emission (802.11b, Ch11)

Page Number

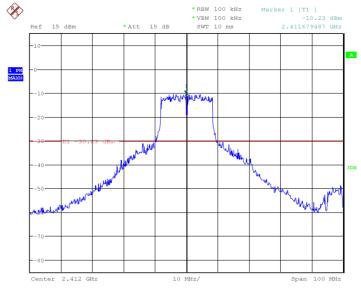
: 32 of 54

Report Issued Date : Aug 15, 2014



Date: 24.JUN.2014 14:06:53

Fig.30 Conducted Spurious Emission (802.11b, Ch11, 30MHz~26GHz)



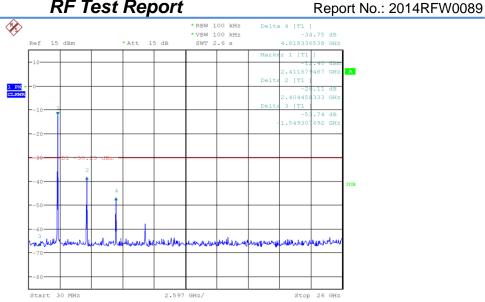
Date: 24.JUN.2014 14:08:34

Fig.31 Conducted Spurious Emission (802.11g, Ch1)

Page Number

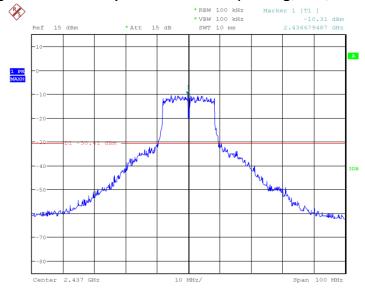
: 33 of 54

Report Issued Date : Aug 15, 2014



Date: 24.JUN.2014 14:09:57

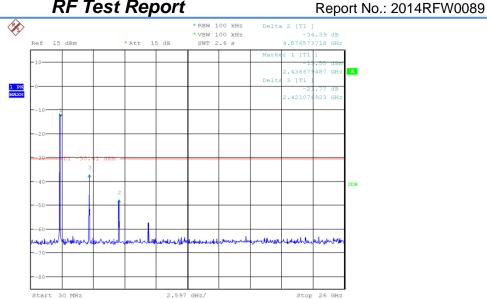
Fig.32 Conducted Spurious Emission (802.11g, Ch1, 30MHz~26GHz)



Date: 24.JUN.2014 14:11:09

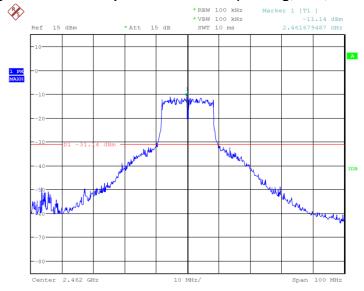
Fig.33 Conducted Spurious Emission (802.11g, Ch6)

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 34 of 54 Report Issued Date : Aug 15, 2014



Date: 24.JUN.2014 14:12:09

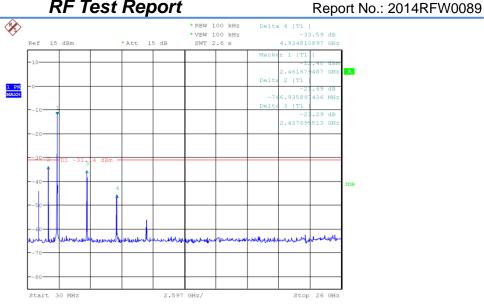
Fig.34 Conducted Spurious Emission (802.11g, Ch6, 30MHz~26GHz)



Date: 24.JUN.2014 14:13:25

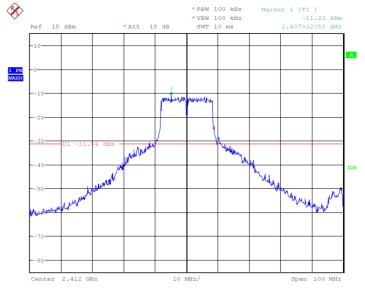
Fig.35 Conducted Spurious Emission (802.11g, Ch11)

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 35 of 54 Report Issued Date : Aug 15, 2014



Date: 24.JUN.2014 14:14:22

Fig.36 Conducted Spurious Emission (802.11g, Ch11, 30MHz~26GHz)



Date: 24.JUN.2014 14:16:42

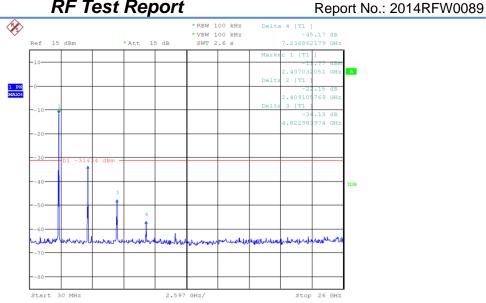
Fig.37 Conducted Spurious Emission (802.11n-20MHz, Ch1)

Page Number

: 36 of 54

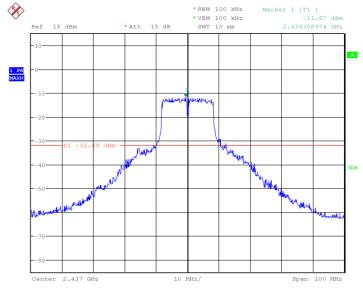
Report Issued Date : Aug 15, 2014

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301



Date: 24.JUN.2014 14:17:09

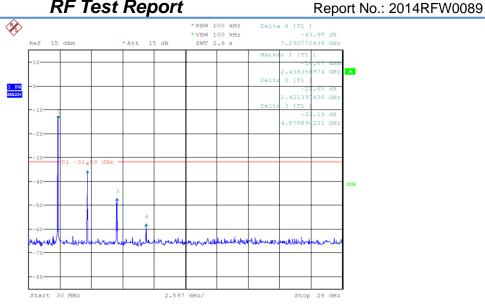
Fig.38 Conducted Spurious Emission (802.11n-20MHz, Ch1, 30MHz~26GHz)



Date: 24.JUN.2014 14:19:19

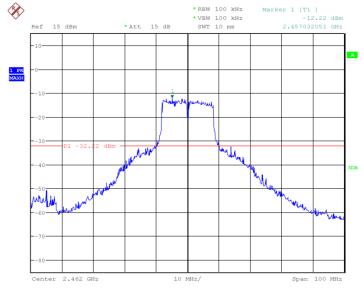
Fig.39 Conducted Spurious Emission (802.11n-20MHz, Ch6)

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 37 of 54 Report Issued Date : Aug 15, 2014



Date: 24.JUN.2014 14:19:39

Fig.40 Conducted Spurious Emission (802.11n-20MHz, Ch6, 30MHz~26GHz)

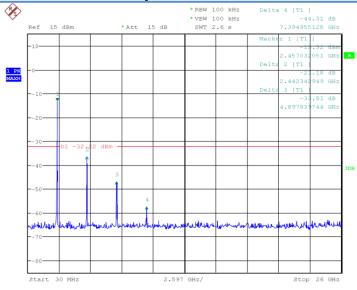


Date: 24.JUN.2014 14:21:06

Fig.41 Conducted Spurious Emission (802.11n-20MHz, Ch11)

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 38 of 54 Report Issued Date : Aug 15, 2014





Date: 24.JUN.2014 14:21:33

Fig.42 Conducted Spurious Emission (802.11n-20MHz, Ch11, 30MHz~26GHz)

6.6. Transmitter Spurious Emission-Radiated

Measurement Limit:

| Standard | Limit |
|--------------------------------------|------------------------------|
| FCC 47 CFR Part 15.247,15.205,15.209 | 20dB below peak output power |

In addition, radiated emissions which fall in the restricted bands, as defined in 25.205(a), must also comply with the radiated emission limits specified in 15.209(a)(see 15.205(c)). The measurement is according to ANSI 63.10 and KDB558704.

Limit in restricted band:

| Frequency of emission(MHz) | Field strength(uV/m) | Field strength(dBuV/m) |
|----------------------------|----------------------|------------------------|
| 30~88 | 100 | 40 |
| 88~216 | 150 | 43.5 |
| 216~960 | 200 | 46 |
| Above 960 | 500 | 54 |

Test condition:

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a nonconducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI 63.10-2009 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 39 of 54 Report Issued Date : Aug 15, 2014

Report No.: 2014RFW0089



recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

Report No.: 2014RFW0089

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During testing, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emission from the EUT. This maximization process was repeated with the EUT positioned in each of its three rthogonal orientations.

| Frequency of emission (MHz) | RBW/VBW | Sweep Times (s) |
|-----------------------------|---------------|-----------------|
| 30~1000 | 100KHz/300KHz | 5 |
| 1000~4000 | 1MHz/1MHz | 15 |
| 4000~18000 | 1MHz/1MHz | 40 |
| 18000~26500 | 1MHz/1MHz | 20 |

802.11b/g mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|---------|---------|-----------------|--------------|------------|
| | Power | 2.38GHz~2.45GHz | Fig.44 | Р |
| | Power | 2.45GHz~2.5GHz | Fig.45 | Р |
| 802.11b | | 30MHz~1GHz | Fig.46 | Р |
| | 1 | 1GHz~3GHz | Fig.47 | Р |
| | | 3GHz~18GHz | Fig.48 | Р |
| | Power | 2.38GHz~2.45GHz | Fig.49 | Р |
| | Power | 2.45GHz~2.5GHz | Fig.50 | Р |
| 802.11g | | 30MHz~1GHz | Fig.51 | Р |
| | 11 | 1GHz~3GHz | Fig.52 | Р |
| | | 3GHz~18GHz | Fig.53 | Р |

802.11n mode

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|----------------|---------|-----------------|--------------|------------|
| 802.11n(20MHz) | Power | 2.38GHz~2.45GHz | Fig.54 | Р |

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 40 of 54 Report Issued Date : Aug 15, 2014



| | | 1 | | 0 |
|---|--------------|----------------|--------|---|
| | Power | 2.45GHz~2.5GHz | Fig.55 | Р |
| | | 30MHz~1GHz | Fig.56 | Р |
| | 1 | 1GHz~3GHz | Fig.57 | Р |
| | | 3GHz~18GHz | Fig.58 | Р |
| / | All channels | 18GHz~26.5GHz | Fig.59 | Р |

Report No.: 2014RFW0089

Conclusion: PASS

Note:

A "reference path loss" is established and A_{Rpi} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

 P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result= $P_{Mea} + A_{Rpi} = P_{Mea} + Cable Loss$.

802.11b mode Ch1 30MHz~1GHz

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | PMea(dBuV/m) | Polarity |
|----------------|----------------|-----------|--------------|----------|
| 34.982704 | 18 | 0.73 | 17.27 | V |
| 43.732324 | 22 | 0.86 | 21.14 | V |
| 100.659276 | 12.8 | 1.83 | 10.97 | Н |
| 142.007892 | 2.7 | 2.23 | 0.47 | Н |
| 199.994144 | 14.2 | 2.66 | 11.54 | V |

Ch1 1GHz~3GHz

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | PMea(dBuV/m) | Polarity |
|----------------|----------------|-----------|--------------|----------|
| 2692.197 | 52.1 | 15.87 | 36.23 | V |
| 2837.5304 | 52.6 | 16.66 | 35.94 | Н |

Ch1 3GHz~18GHz

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | PMea(dBuV/m) | Polarity |
|----------------|----------------|-----------|--------------|----------|
| 10736.08667 | 45.4 | 10.42 | 34.98 | V |
| 15217.7654 | 47.6 | 13.65 | 33.95 | V |
| 16557.7826 | 49.3 | 14.32 | 34.98 | V |

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 41 of 54 Report Issued Date : Aug 15, 2014



Report No.: 2014RFW0089

802.11g

Ch11 30MHz~1GHz

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | PMea(dBuV/m) | Polarity |
|----------------|----------------|-----------|--------------|----------|
| 34.343788 | 17.3 | 0.73 | 16.57 | V |
| 35.428368 | 15.2 | 0.80 | 14.4 | V |
| 44.841476 | 20.9 | 0.92 | 19.98 | V |
| 100.272616 | 12.2 | 1.84 | 10.27 | Н |

Ch11 1GHz~3GHz

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | PMea(dBuV/m) | Polarity |
|----------------|----------------|-----------|--------------|----------|
| 2784.7484 | 52.1 | 16.13 | 35.97 | V |
| 2818.3786 | 52.8 | 16.66 | 36.14 | Н |

Ch11 3GHz~18GHz

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | PMea(dBuV/m) | Polarity |
|----------------|----------------|-----------|--------------|----------|
| 15811.53027 | 57.67 | 13.33 | 44.34 | Н |
| 16225.6356 | 59.42 | 13.6 | 45.82 | Н |
| 16278.35487 | 49.6 | 14.36 | 35.24 | V |

802.11n-20MHz

Ch1 30MHz~1GHz

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | PMea(dBuV/m) | Polarity |
|----------------|----------------|-----------|--------------|----------|
| 34.169844 | 10.8 | 0.73 | 10.07 | V |
| 99.959144 | 16.7 | 1.83 | 14.87 | V |
| 125.009556 | 11 | 2.00 | 9.00 | V |
| 200.018512 | 15.2 | 2.66 | 12.54 | Н |
| 249.994512 | 19.8 | 3.23 | 16.57 | Н |

Ch1 1GHz~3GHz

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | PMea(dBuV/m) | Polarity |
|----------------|----------------|-----------|--------------|----------|
| 2880.7474 | 53.7 | 16.58 | 37.12 | V |

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 42 of 54 Report Issued Date : Aug 15, 2014



| 2936.0168 53.5 16.57 36.93 H | 2936.0168 | 535 | 165/ | 36.93 | Н |
|------------------------------|-----------|-----|------|-------|---|
|------------------------------|-----------|-----|------|-------|---|

Report No.: 2014RFW0089

Ch1 3GHz~18GHz

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | PMea(dBuV/m) | Polarity |
|----------------|----------------|-----------|--------------|----------|
| 16280.48953 | 63.52 | 14.36 | 49.16 | V |
| 16948.44827 | 64.61 | 13.53 | 51.08 | Н |
| 17573.97273 | 67.08 | 14.93 | 52.15 | V |

All Ch 18GHz~26.5GHz

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | PMea(dBuV/m) | Polarity |
|----------------|----------------|-----------|--------------|----------|
| 21179.000000 | 45.48 | 6.97 | 38.51 | V |
| 22748.950000 | 41.63 | 3.05 | 38.58 | Н |
| 23684.800000 | 41.59 | 3.05 | 38.54 | Н |
| 24633.400000 | 40.05 | 3.05 | 37.00 | V |
| 25567.550000 | 43.01 | 2.90 | 40.11 | Н |
| 26066.500000 | 42.06 | 2.90 | 39.16 | V |

Test graphs as below:

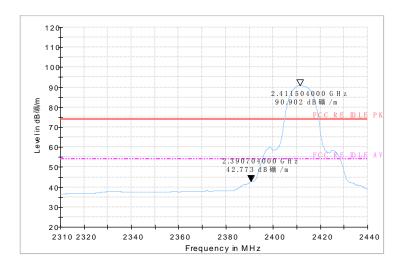
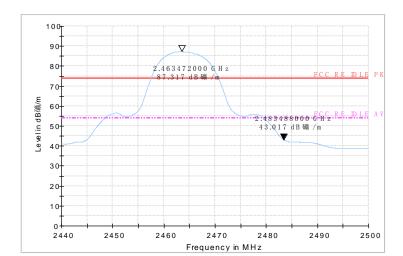


Fig.44 Radiated emission (Power): 802.11b, low channel

East China Institute of Telecommunications Page Number : 43 of 54 TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued Date : Aug 15, 2014





Report No.: 2014RFW0089

: 44 of 54

Report Issued Date : Aug 15, 2014

Page Number

Fig.45 Radiated emission (Power): 802.11b, high channel

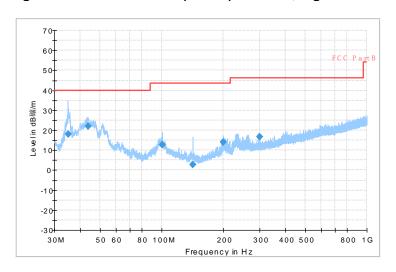


Fig.46 Radiated Spurious Emission (802.11b,Ch1,30MHz~1GHz)

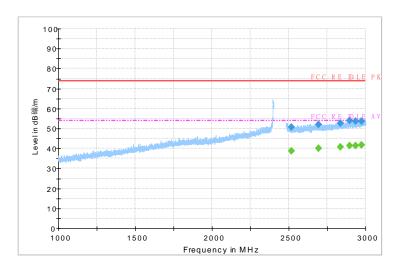


Fig.47 Radiated Spurious Emission (802.11b,Ch1,1GHz~3GHz)



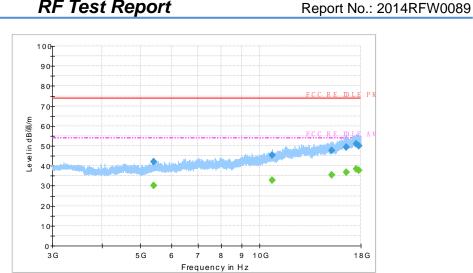
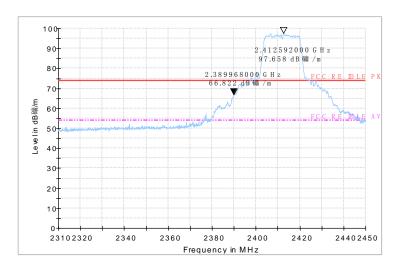
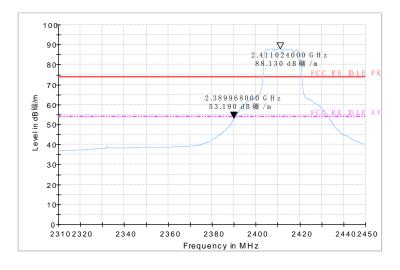


Fig.48 Radiated Spurious Emission (802.11b,Ch1,3GHz~18GHz)



(peak)



(average) Fig.49 Radiated emission (Power): 802.11g, low channel

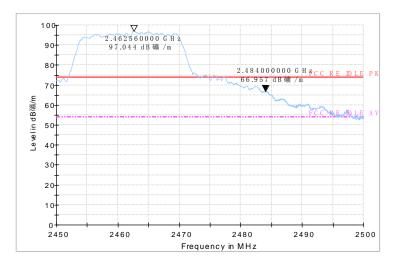
: 45 of 54

Report Issued Date : Aug 15, 2014

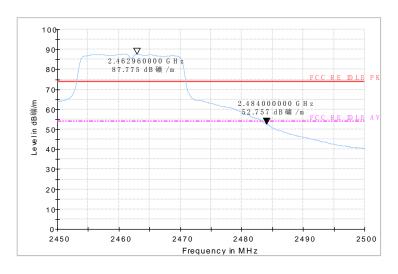
Page Number







(peak)



(average)
Fig.50 Radiated emission (Power): 802.11g, high channel

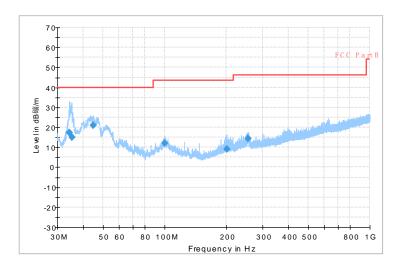


Fig.51 Radiated Spurious Emission (802.11g,Ch11,30MHz~1GHz)

Page Number

Report Issued Date : Aug 15, 2014



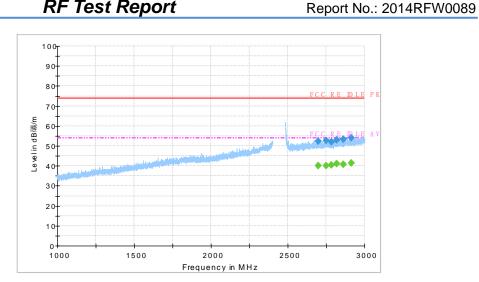


Fig.52 Radiated Spurious Emission (802.11g,Ch11,1GHz~3GHz)

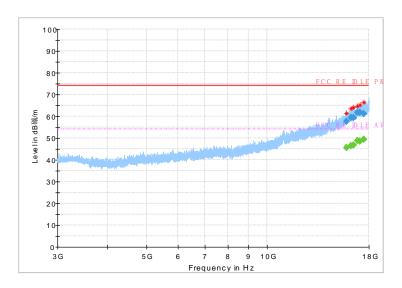
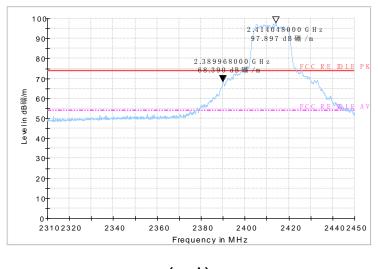


Fig.53 Radiated Spurious Emission (802.11g,Ch11,3GHz~18GHz)



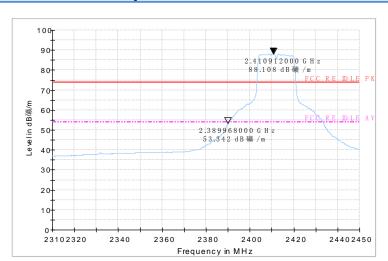
(peak)

Page Number

: 47 of 54

Report Issued Date : Aug 15, 2014





Report No.: 2014RFW0089

(average)
Fig.54 Radiated emission (Power): 802.11n, low channel

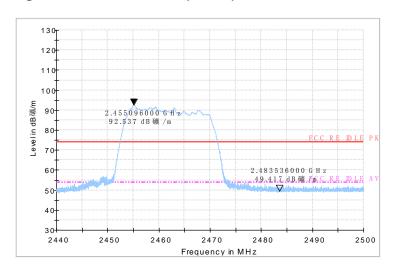


Fig.55 Radiated emission (Power): 802.11n, high channel

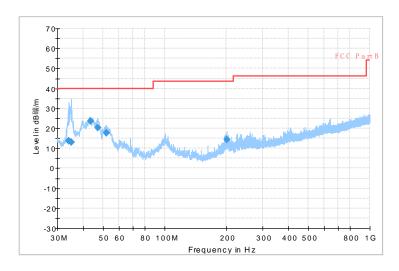
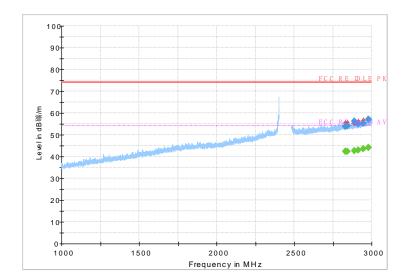


Fig.56 Radiated Spurious Emission (802.11 n-20MHz,Ch1,30MHz~1GHz)





Report No.: 2014RFW0089

Fig.57 Radiated Spurious Emission (802.11 n-20MHz,Ch1,1GHz~3GHz)

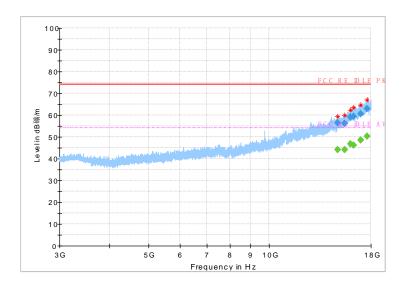
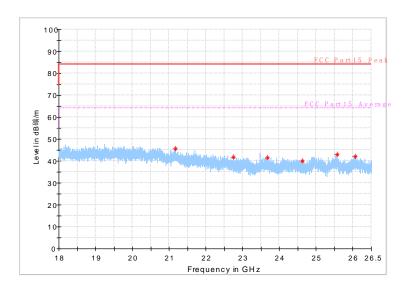


Fig.58 Radiated Spurious Emission (802.11 n-20MHz,Ch1,3GHz~18GHz)



East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301 Page Number : 49 of 54 Report Issued Date : Aug 15, 2014



Fig.59 Radiated emission: GFSK, 18 GHz – 26.5 GHz

Report No.: 2014RFW0089

East China Institute of Telecommunications Page Number : 50 of 54 TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued Date : Aug 15, 2014



7. Test Equipments and Ancillaries Used For Tests

The test equipments and ancillaries used are as follows.

Conducted test system

| No. | Equipment | Model | Serial Number | Manufacture r | Calibration Due date |
|-----|---------------------------|----------|------------------|------------------|----------------------|
| 1 | Vector Signal Analyzer | FSQ26 | 101096 | R&S | 2015-07-06 |
| 2 | DC Power Supply | ZUP60-14 | LOC-220Z00 6 | TDL-Lambda | 2015-07-06 |

Report No.: 2014RFW0089

: 51 of 54

Radiated emission test system

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration Due date |
|-----|--|----------|------------------|--------------|-------------------------|
| 1 | Universal Radio Communicati on Tester | CMU200 | 123126 | R&S | 2014-08-30 |
| 2 | Test Receiver | ESCI | 101235 | R&S | 2014-08-30 |
| 3 | Test Receiver | ESU40 | 100307 | R&S | 2014-10-29 |
| 4 | Trilog Antenna | VULB9163 | 19-162515 | Schwarzbeck | 2014-11-11 |
| 5 | Double Ridged Guide Antenna | ETS-3117 | 135885 | ETS | 2017-05-05 |
| 6 | 2-Line V-Network | ENV216 | 101380 | R&S | 2014-10-30 |

East China Institute of Telecommunications Page Number TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued Date : Aug 15, 2014



| ECH | M ICSt I | ιοροιτ | 1 () | eport 140 2014(1) | ****** |
|-----|---|----------|-----------------|-------------------|------------|
| 7 | Single Phase Harmonic & Flicker | DPA500N | V112610998 8 | EM Test | 2014-10-28 |
| 8 | Multifunction AC/DC Power Source | Netwave7 | V112610998 9 | EM Test | 2014-10-28 |
| 9 | Audio Analyzer | UPV | 101950 | R&S | 2014-08-30 |
| 10 | Power Meter | NRP2 | 101804 | R&S | 2014-08-30 |
| 11 | Signal Generator | SMB 100A | 105563 | R&S | 2014-08-30 |
| 12 | ESD Test Simulator | Dito | V112610998 2 | EM Test | 2014-10-31 |

Report No.: 2014RFW0089

: 52 of 54

Anechoic chamber

Fully anechoic chamber by Frankonia German.

8. Test Environment

Shielding Room1 (6.0 metersx3.0 metersx2.7 meters) did not exceed following limits along the conducted RF performance testing:

| Temperature | Min. = 15 °C, Max. = 30 °C |
|------------------------------|--|
| Relative humidity | Min. = 30 %, Max. = 60 % |
| Shielding effectiveness | > 110 dB |
| Ground system resistance | < 0.5 Ω |
| Uniformity of field strength | Between 0 and 6 dB, from 80MHz to 3000 MHz |

Control room did not exceed following limits along the EMC testing:

East China Institute of Telecommunications Page Number TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued Date : Aug 15, 2014



| Temperature | Min. = 15 °C, Max. = 35 °C |
|--------------------------|----------------------------|
| Relative humidity | Min. =30 %, Max. = 60 % |
| Shielding effectiveness | > 110 dB |
| Electrical insulation | > 10 kΩ |
| Ground system resistance | < 0.5 Ω |

Report No.: 2014RFW0089

Fully-anechoic chamber1 (6.8 meters×3.08 meters×3.53 meters) did not exceed following limits along the EMC testing:

| Temperature | Min. = 15 °C , Max. = 30 °C |
|------------------------------|--|
| Relative humidity | Min. = 30 %, Max. = 60 % |
| Shielding effectiveness | > 110 dB |
| Electrical insulation | > 10 kΩ |
| Ground system resistance | < 0.5 Ω |
| Uniformity of field strength | Between 0 and 6 dB, from 80MHz to 3000 MHz |

Fully-anechoic chamber2 (Tapered Section: 8.75 meters×3.66 meters×3.66 meters, Rectangular Section: 7.32 meters×3.97 meters×3.66 meters) did not exceed following limits along the EMC testing:

| Temperature | Min. = 15 °C , Max. = 30 °C |
|------------------------------|--|
| Relative humidity | Min. = 35 %, Max. = 60 % |
| Shielding effectiveness | > 110 dB |
| Electrical insulation | > 10 kΩ |
| Ground system resistance | < 0.5 Ω |
| Uniformity of field strength | Between 0 and 6 dB, from 30MHz to 40000MHz |

Page Number

: 53 of 54

Report Issued Date : Aug 15, 2014

East China Institute of Telecommunications TEL: +86 21 63843300 FAX: +86 21 63843301



ANNEX A. Deviations from Prescribed Test Methods

Report No.: 2014RFW0089

| No deviation from Prescribed Test Methods. |
|--|
| *******End The Report******* |

East China Institute of Telecommunications Page Number : 54 of 54 TEL: +86 21 63843300 FAX: +86 21 63843301 Report Issued Date : Aug 15, 2014