

FCC Test Report

Product Name : RP-N14 Wireless N-300 Range Extender

Model No. : RP-N14

FCC ID. : MSQ-RPN14

Applicant : ASUSTeK COMPUTER INC.

Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt : 2013/07/22

Issued Date : 2013/10/18

Report No. : 137429R-RFUSP42V01

Report Version : V1.0



The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

Test Report Certification

Issued Date : 2013/10/18

Report No. : 137429R-RFUSP42V01



Product Name : RP-N14 Wireless N-300 Range Extender
 Applicant : ASUSTeK COMPUTER INC.
 Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
 Manufacturer : ASUSTeK COMPUTER INC.
 Model No. : RP-N14
 FCC ID. : MSQ-RPN14
 EUT Voltage : AC 100-240V, 50-60Hz
 Trade Name : ASUS
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2012
 ANSI C63.4: 2009
 Test Result : Complied

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

Documented By : 

 (Carol Tsai / Engineering Adm. Specialist)

Reviewed By : 

 (Quale Tang / Senior Engineer)

Approved By : 

 (Roy Wang / Manager)

Laboratory Information

We, **Quietek Corporation**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

| | | |
|----------------------|----------|---|
| Taiwan R.O.C. | : | TAF, Accreditation Number: 1313 |
| USA | : | FCC, Registration Number: 365520 |
| Canada | : | IC, Submission No: 150981 |

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site:<http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :
<http://www.quietek.com/>

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory:

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.

TEL:+886-3-592-8858 / FAX:+886-3-592-8859

E-Mail : service@quietek.com

LinKou Testing Laboratory:

No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.

TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789

E-Mail : service@quietek.com

TABLE OF CONTENTS

| Description | Page |
|---|------|
| 1. General Information..... | 6 |
| 1.1. EUT Description | 6 |
| 1.2. Operational Description..... | 10 |
| 1.3. Test Mode | 11 |
| 1.4. Tested System Details | 12 |
| 1.5. Configuration of tested System | 13 |
| 1.6. EUT Exercise Software | 13 |
| 1.7. Test Facility..... | 14 |
| 2. Conducted Emission | 15 |
| 2.1. Test Equipment..... | 15 |
| 2.2. Test Setup | 15 |
| 2.3. Limits | 16 |
| 2.4. Test Procedure | 16 |
| 2.5. Test Specification..... | 16 |
| 2.6. Uncertainty | 16 |
| 2.7. Test Result..... | 17 |
| 2.8. Test Photo | 19 |
| 3. Peak Power Output | 20 |
| 3.1. Test Equipment..... | 20 |
| 3.2. Test Setup | 20 |
| 3.3. Test procedures..... | 20 |
| 3.4. Limits | 20 |
| 3.5. Test Specification..... | 20 |
| 3.6. Uncertainty | 20 |
| 3.7. Test Result..... | 21 |
| 4. Radiated Emission | 47 |
| 4.1. Test Equipment..... | 47 |
| 4.2. Test Setup | 47 |
| 4.3. Limits | 48 |
| 4.4. Test Procedure | 48 |
| 4.5. Test Specification..... | 48 |
| 4.6. Uncertainty | 48 |
| 4.7. Test Result..... | 49 |
| 4.8. Test Photo | 98 |

| | | |
|------------------|---------------------------------|-----|
| 5. | RF antenna conducted test | 100 |
| 5.1. | Test Equipment..... | 100 |
| 5.2. | Test Setup | 100 |
| 5.3. | Limits | 101 |
| 5.4. | Test Procedure | 101 |
| 5.5. | Test Specification..... | 101 |
| 5.6. | Uncertainty | 101 |
| 5.7. | Test Result..... | 102 |
| 6. | Band Edge..... | 120 |
| 6.1. | Test Equipment..... | 120 |
| 6.2. | Test Setup | 120 |
| 6.3. | Limits | 121 |
| 6.4. | Test Procedure | 121 |
| 6.5. | Test Specification..... | 121 |
| 6.6. | Uncertainty | 121 |
| 6.7. | Test Result..... | 122 |
| 7. | Occupied Bandwidth..... | 154 |
| 7.1. | Test Equipment..... | 154 |
| 7.2. | Test Setup | 154 |
| 7.3. | Test Procedures | 154 |
| 7.4. | Limits | 154 |
| 7.5. | Test Specification..... | 154 |
| 7.6. | Uncertainty | 154 |
| 7.7. | Test Result..... | 155 |
| 8. | Power Density | 179 |
| 8.1. | Test Equipment..... | 179 |
| 8.2. | Test Setup | 179 |
| 8.3. | Limits | 179 |
| 8.4. | Test Procedures | 179 |
| 8.5. | Test Specification..... | 179 |
| 8.6. | Uncertainty | 179 |
| 8.7. | Test Result..... | 180 |
| Attachement..... | | 206 |
| | EUT Photograph..... | 206 |

1. General Information

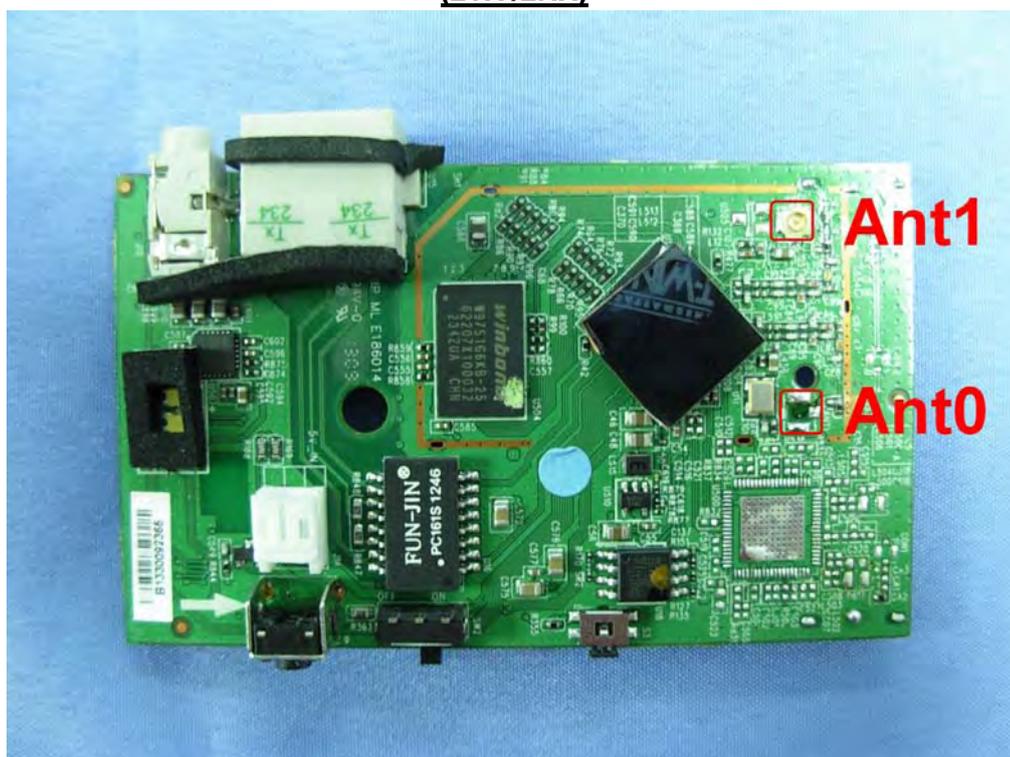
1.1. EUT Description

| | |
|--|--|
| Product Name | RP-N14 Wireless N-300 Range Extender |
| Product Type | WLAN (2TX, 2RX) |
| Trade Name | ASUS |
| Model No. | RP-N14 |
| Frequency Range/Channel Number -IEEE 802.11b/g & IEEE 802.11n (20MHz)_2.4GHz | 2412~2462MHz / 11 Channels |
| Frequency Range/Channel Number -IEEE 802.11n(40MHz) _2.4GHz | 2422~2452MHz / 7 Channels |
| Type of Modulation (IEEE 802.11b) | Direct Sequence Spread Spectrum (DSSS) |
| Type of Modulation (IEEE 802.11g/n) | Orthogonal Frequency Division Multiplexing (OFDM) |
| Data Speed (IEEE 802.11b) | 1Mbps, 2Mbps, 5.5Mbps, 11Mbps |
| Data Speed (IEEE 802.11g) | 6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps |
| Data Speed (IEEE 802.11n) | Support a subset of the combination of GI, MCS 0~MCS 15 and bandwidth defined in 802.11n |
| Antenna Gain | Ant0: 3.0dBi, Ant1: 3.0dBi |
| Antenna Type | IFA antenna |

ANT-TX / RX & Bandwidth

| ANT-TX / RX | TX | | RX | |
|-------------|-------|-------|-------|-------|
| | 20MHz | 40MHz | 20MHz | 40MHz |
| IEEE802.11b | ✓ | | ✓ | |
| IEEE802.11g | ✓ | | ✓ | |
| IEEE802.11n | ✓ | ✓ | ✓ | ✓ |

(2TX /2RX)



IEEE 802.11n

| MCS Index | Modulation | R | N _{BPSCS} | N _{CBPS} | | N _{DBPS} | | Data Rate(Mb/s) | | | |
|-----------|------------|-----|--------------------|-------------------|-------|-------------------|-------|-----------------|-------|----------|-------|
| | | | | 20MHz | 40MHz | 20MHz | 40MHz | 800ns GI | | 400ns GI | |
| | | | | | | | | 20MHz | 40MHz | 20MHz | 40MHz |
| 0 | BPSK | 1/2 | 1 | 52 | 108 | 26 | 54 | 6.5 | 13.5 | 7.2 | 15.0 |
| 1 | QPSK | 1/2 | 2 | 104 | 216 | 52 | 108 | 13.0 | 27.0 | 14.4 | 30.0 |
| 2 | QPSK | 3/4 | 2 | 104 | 216 | 78 | 162 | 19.5 | 40.5 | 21.7 | 45.0 |
| 3 | 16-QAM | 1/2 | 4 | 208 | 432 | 104 | 216 | 26.0 | 54.0 | 28.9 | 60.0 |
| 4 | 16-QAM | 3/4 | 4 | 208 | 432 | 156 | 324 | 39.0 | 81.0 | 43.3 | 90.0 |
| 5 | 64-QAM | 2/3 | 6 | 312 | 648 | 208 | 432 | 52.0 | 108.0 | 57.8 | 120.0 |
| 6 | 64-QAM | 3/4 | 6 | 312 | 648 | 234 | 486 | 58.5 | 121.5 | 65.0 | 135.0 |
| 7 | 64-QAM | 5/6 | 6 | 312 | 648 | 260 | 540 | 65.0 | 135.0 | 72.2 | 150.0 |

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 1 – MCS parameters for TX Antenna number = 1

| MCS Index | Modulation | R | N _{BPSCS} | N _{CBPS} | | N _{DBPS} | | Data Rate(Mb/s) | | | |
|-----------|------------|-----|--------------------|-------------------|-------|-------------------|-------|-----------------|-------|----------|-------|
| | | | | 20MHz | 40MHz | 20MHz | 40MHz | 800ns GI | | 400ns GI | |
| | | | | | | | | 20MHz | 40MHz | 20MHz | 40MHz |
| 8 | BPSK | 1/2 | 1 | 104 | 216 | 52 | 108 | 13.0 | 27.0 | 14.4 | 30.0 |
| 9 | QPSK | 1/2 | 2 | 208 | 432 | 104 | 216 | 26.0 | 54.0 | 28.9 | 60.0 |
| 10 | QPSK | 3/4 | 2 | 208 | 432 | 156 | 324 | 39.0 | 81.0 | 43.3 | 90.0 |
| 11 | 16-QAM | 1/2 | 4 | 416 | 864 | 208 | 432 | 52.0 | 108.0 | 57.8 | 120.0 |
| 12 | 16-QAM | 3/4 | 4 | 416 | 864 | 312 | 648 | 78.0 | 162.0 | 86.7 | 180.0 |
| 13 | 64-QAM | 2/3 | 6 | 624 | 1296 | 416 | 864 | 104.0 | 216.0 | 115.6 | 240.0 |
| 14 | 64-QAM | 3/4 | 6 | 624 | 1296 | 468 | 972 | 117.0 | 243.0 | 130.0 | 270.0 |
| 15 | 64-QAM | 5/6 | 6 | 624 | 1296 | 520 | 1080 | 130.0 | 270.0 | 144.4 | 300.0 |

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 2 – MCS parameters for TX Antenna number = 2

| Symbol | Explanation |
|--------------------|---|
| R | Code rate |
| N _{BPSCS} | Number of coded bits per single carrier |
| N _{CBPS} | Number of coded bits per symbol |
| N _{DBPS} | Number of data bits per symbol |
| GI | guard interval |

IEEE 802.11b/g & IEEE 802.11n (20MHz)

| Working Frequency of Each Channel | | | | | | | |
|-----------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 001 | 2412 MHz | 002 | 2417 MHz | 003 | 2422 MHz | 004 | 2427 MHz |
| 005 | 2432 MHz | 006 | 2437 MHz | 007 | 2442 MHz | 008 | 2447 MHz |
| 009 | 2452 MHz | 010 | 2457 MHz | 011 | 2462 MHz | | |

IEEE 802.11n (40MHz)

| Working Frequency of Each Channel | | | | | | | |
|-----------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 003 | 2422 MHz | 004 | 2427 MHz | 005 | 2432 MHz | 006 | 2437 MHz |
| 007 | 2442 MHz | 008 | 2447 MHz | 009 | 2452 MHz | | |

Note:

1. This device is a RP-N14 Wireless N-300 Range Extender including 2.4GHz b/g/n (2x2) transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
3. Regards to the frequency band operation; the lowest , middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 137429R-RFUSP37V02 under Declaration of Conformity.

1.3. Test Mode

Quietek has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

| | |
|----|------------------|
| TX | Mode 1: Transmit |
|----|------------------|

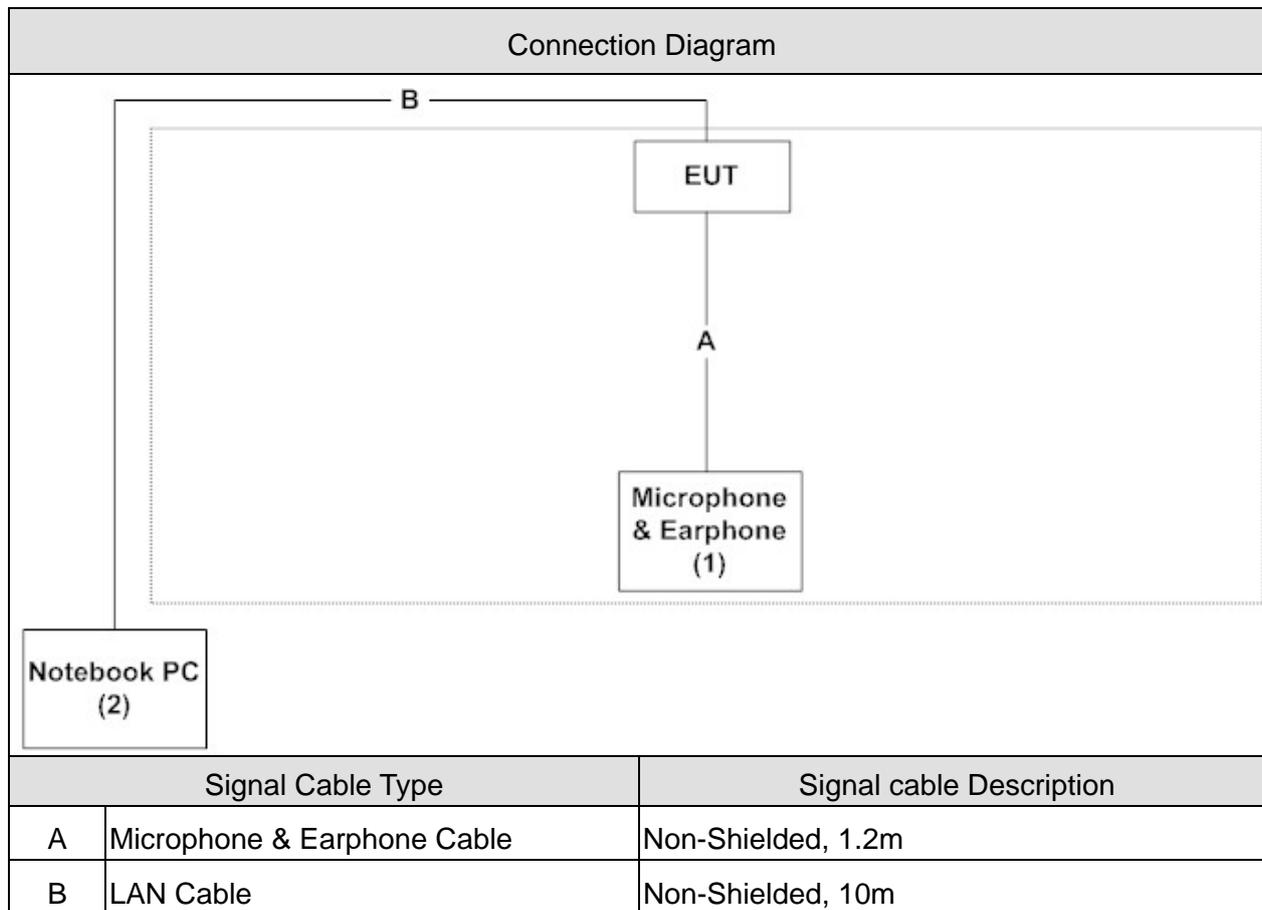
| Test Items | Modulation | Channel | Antenna | Result |
|---------------------------|------------|----------|---------|----------|
| Conducted Emission | 11n(40MHz) | 6 | 0+1 | Complies |
| Peak Power Output | b/g | 1/ 6/ 11 | 0 | Complies |
| | 11n(20MHz) | 1/ 6/ 11 | 0+1 | Complies |
| | 11n(40MHz) | 3/ 6/ 9 | 0+1 | Complies |
| Radiated Emission | b/g | 1/ 6/ 11 | 0 | Complies |
| | 11n(20MHz) | 1/ 6/ 11 | 0+1 | Complies |
| | 11n(40MHz) | 3/ 6/ 9 | 0+1 | Complies |
| RF antenna conducted test | b/g | 1/ 11 | 0 | Complies |
| | 11n(20MHz) | 1/ 11 | 0/1 | Complies |
| | 11n(40MHz) | 3/ 9 | 0/1 | Complies |
| Band Edge | b/g | 1/ 11 | 0 | Complies |
| | 11n(20MHz) | 1/ 11 | 0+1 | Complies |
| | 11n(40MHz) | 3/ 9 | 0+1 | Complies |
| Occupied Bandwidth | b/g | 1/ 6/ 11 | 0 | Complies |
| | 11n(20MHz) | 1/ 6/ 11 | 0/1 | Complies |
| | 11n(40MHz) | 3/ 6/ 9 | 0/1 | Complies |
| Power Density | b/g | 1/ 6/ 11 | 0 | Complies |
| | 11n(20MHz) | 1/ 6/ 11 | 0+1 | Complies |
| | 11n(40MHz) | 3/ 6/ 9 | 0+1 | Complies |

1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | Manufacturer | Model No. | Serial No. | FCC ID | Power Cord |
|---------------------------|--------------|-----------|----------------------------|--------|---|
| 1 Microphone & Earphone | Samsung | N/A | N/A | DoC | -- |
| 2 Notebook PC | ACER | MS2296 | LUSCV021391150332 C2000 | DoC | Non-Shielded, 2.5m one ferrite core bonded |

1.5. Configuration of tested System



1.6. EUT Exercise Software

| | |
|---|--|
| 1 | Setup the EUT as shown in Section 1.5. |
| 2 | Execute the test program "MT76200QA" function on the Notebook. |
| 3 | Configure the test mode, the test channel, and the data rate. |
| 4 | Press "Start TX" to start the continuous transmitting. |
| 5 | Verify that the EUT works properly. |

1.7. Test Facility

Ambient conditions in the laboratory:

| Items | Test Item | Required (IEC 68-1) | Actual |
|----------------------------|---|---------------------|----------|
| Temperature (°C) | FCC PART 15 C 15.207 Conducted Emission | 15 - 35 | 20 |
| Humidity (%RH) | | 25 - 75 | 50 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |
| Temperature (°C) | FCC PART 15 C 15.247 Peak Power Output (DSSS) | 15 - 35 | 25 |
| Humidity (%RH) | | 25 - 75 | 45 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |
| Temperature (°C) | FCC PART 15 C 15.247 Radiated Emission (DSSS) | 15 - 35 | 25 |
| Humidity (%RH) | | 25 - 75 | 45 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |
| Temperature (°C) | FCC PART 15 C 15.247 RF antenna conducted test (DSSS) | 15 - 35 | 25 |
| Humidity (%RH) | | 25 - 75 | 45 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |
| Temperature (°C) | FCC PART 15 C 15.247 Band Edge (DSSS) | 15 - 35 | 25 |
| Humidity (%RH) | | 25 - 75 | 45 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |
| Temperature (°C) | FCC PART 15 C 15.247 Occupied Bandwidth (DSSS) | 15 - 35 | 25 |
| Humidity (%RH) | | 25 - 75 | 45 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |
| Temperature (°C) | FCC PART 15 C 15.247 Power Density (DSSS) | 15 - 35 | 20 |
| Humidity (%RH) | | 25 - 75 | 50 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |

2. Conducted Emission

2.1. Test Equipment

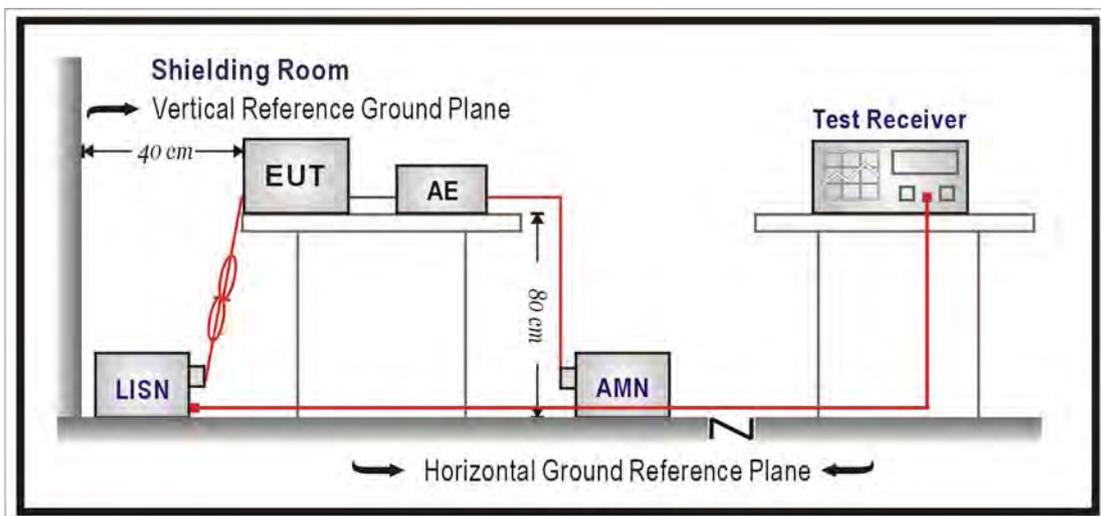
The following test equipments are used during the test:

Conducted Emission / SR3

| Instrument | Manufacturer | Model No. | Serial No | Next Cal. Date |
|---------------|--------------|-----------|------------|----------------|
| LISN | R&S | ENV216 | 100096 | 2013/08/12 |
| LISN | R&S | ESH3-Z5 | 836679/022 | 2014/01/20 |
| Test Receiver | R&S | ESCS 30 | 825442/017 | 2014/01/01 |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

| FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV) | | |
|---|-------|-------|
| Frequency MHz | QP | AV |
| 0.15 - 0.50 | 66-56 | 56-46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.5. Test Specification

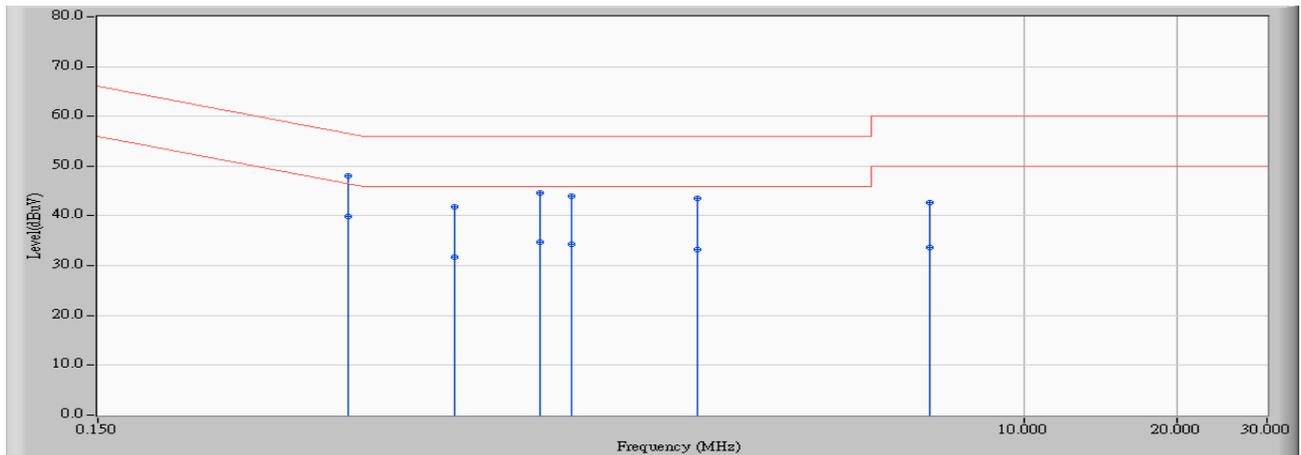
According to FCC Part 15 Subpart C Paragraph 15.207: 2012

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

| | |
|--|---------------------------|
| Site : SR3 | Time : 2013/04/29 - 16:47 |
| Limit : CISPR_B_00M_QP | Margin : 10 |
| Probe : SR3_LISN(16A)-2_0813 - Line1 | Power : AC 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : |

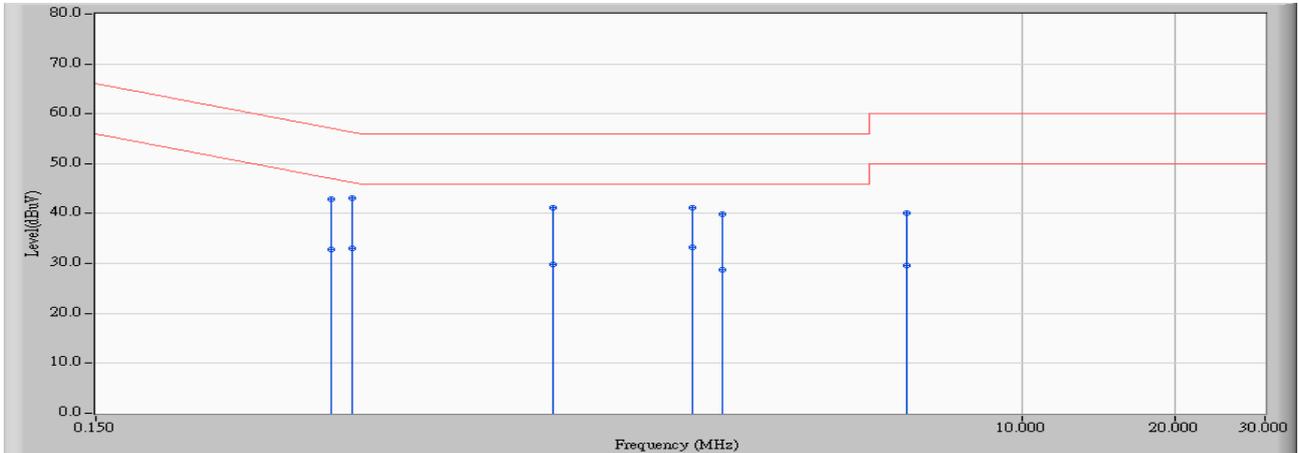


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV) | Margin (dB) | Limit (dBuV) | Detector Type |
|----|-----------------|---------------------|----------------------|----------------------|-------------|--------------|---------------|
| 1 | 0.466 | 9.811 | 38.240 | 48.051 | -8.526 | 56.578 | QUASPEAK |
| 2 | * 0.466 | 9.811 | 30.020 | 39.831 | -6.746 | 46.578 | AVERAGE |
| 3 | 0.755 | 9.887 | 31.960 | 41.847 | -14.153 | 56.000 | QUASPEAK |
| 4 | 0.755 | 9.887 | 21.860 | 31.747 | -14.253 | 46.000 | AVERAGE |
| 5 | 1.115 | 9.942 | 34.690 | 44.632 | -11.368 | 56.000 | QUASPEAK |
| 6 | 1.115 | 9.942 | 24.870 | 34.812 | -11.188 | 46.000 | AVERAGE |
| 7 | 1.287 | 9.946 | 34.100 | 44.046 | -11.954 | 56.000 | QUASPEAK |
| 8 | 1.287 | 9.946 | 24.440 | 34.386 | -11.614 | 46.000 | AVERAGE |
| 9 | 2.263 | 9.976 | 33.500 | 43.475 | -12.525 | 56.000 | QUASPEAK |
| 10 | 2.263 | 9.976 | 23.300 | 33.275 | -12.725 | 46.000 | AVERAGE |
| 11 | 6.521 | 10.110 | 32.670 | 42.780 | -17.220 | 60.000 | QUASPEAK |
| 12 | 6.521 | 10.110 | 23.550 | 33.660 | -16.340 | 50.000 | AVERAGE |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|--|---------------------------|
| Site : SR3 | Time : 2013/04/29 - 16:55 |
| Limit : CISPR_B_00M_QP | Margin : 10 |
| Probe : SR3_LISN(16A)-2_0813 - Line2 | Power : AC 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : |



| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV) | Margin (dB) | Limit (dBuV) | Detector Type |
|----|-----------------|---------------------|----------------------|----------------------|-------------|--------------|---------------|
| 1 | 0.435 | 9.783 | 33.030 | 42.813 | -14.341 | 57.154 | QUASIPeAK |
| 2 | 0.435 | 9.783 | 22.980 | 32.763 | -14.391 | 47.154 | AVERAGE |
| 3 | 0.478 | 9.808 | 33.200 | 43.008 | -13.363 | 56.372 | QUASIPeAK |
| 4 | 0.478 | 9.808 | 23.320 | 33.128 | -13.243 | 46.372 | AVERAGE |
| 5 | 1.189 | 9.932 | 31.270 | 41.202 | -14.798 | 56.000 | QUASIPeAK |
| 6 | 1.189 | 9.932 | 19.790 | 29.722 | -16.278 | 46.000 | AVERAGE |
| 7 | 2.240 | 9.950 | 31.170 | 41.120 | -14.880 | 56.000 | QUASIPeAK |
| 8 | * 2.240 | 9.950 | 23.330 | 33.280 | -12.720 | 46.000 | AVERAGE |
| 9 | 2.568 | 9.965 | 29.950 | 39.915 | -16.085 | 56.000 | QUASIPeAK |
| 10 | 2.568 | 9.965 | 18.770 | 28.735 | -17.265 | 46.000 | AVERAGE |
| 11 | 5.935 | 10.089 | 30.000 | 40.089 | -19.911 | 60.000 | QUASIPeAK |
| 12 | 5.935 | 10.089 | 19.560 | 29.649 | -20.351 | 50.000 | AVERAGE |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. Peak Power Output

3.1. Test Equipment

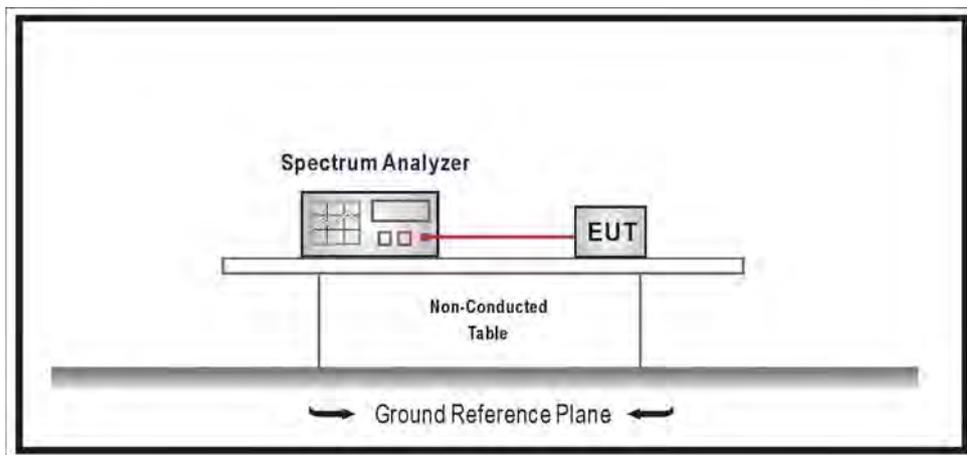
The following test equipments are used during the test:

Peak Power / SR7

| Instrument | Manufacturer | Model No. | Serial No | Next Cal. Date |
|-------------------|--------------|------------|------------|----------------|
| Spectrum Analyzer | Agilent | N9010A-EXA | US47140172 | 2014/08/05 |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

3.2. Test Setup



3.3. Test procedures

The EUT was tested according to DTS test procedure of Jan. 2012 KDB558074, Section 5.2.1.2 Measurement Procedure PK2 for compliance to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2012

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Peak Power Output | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

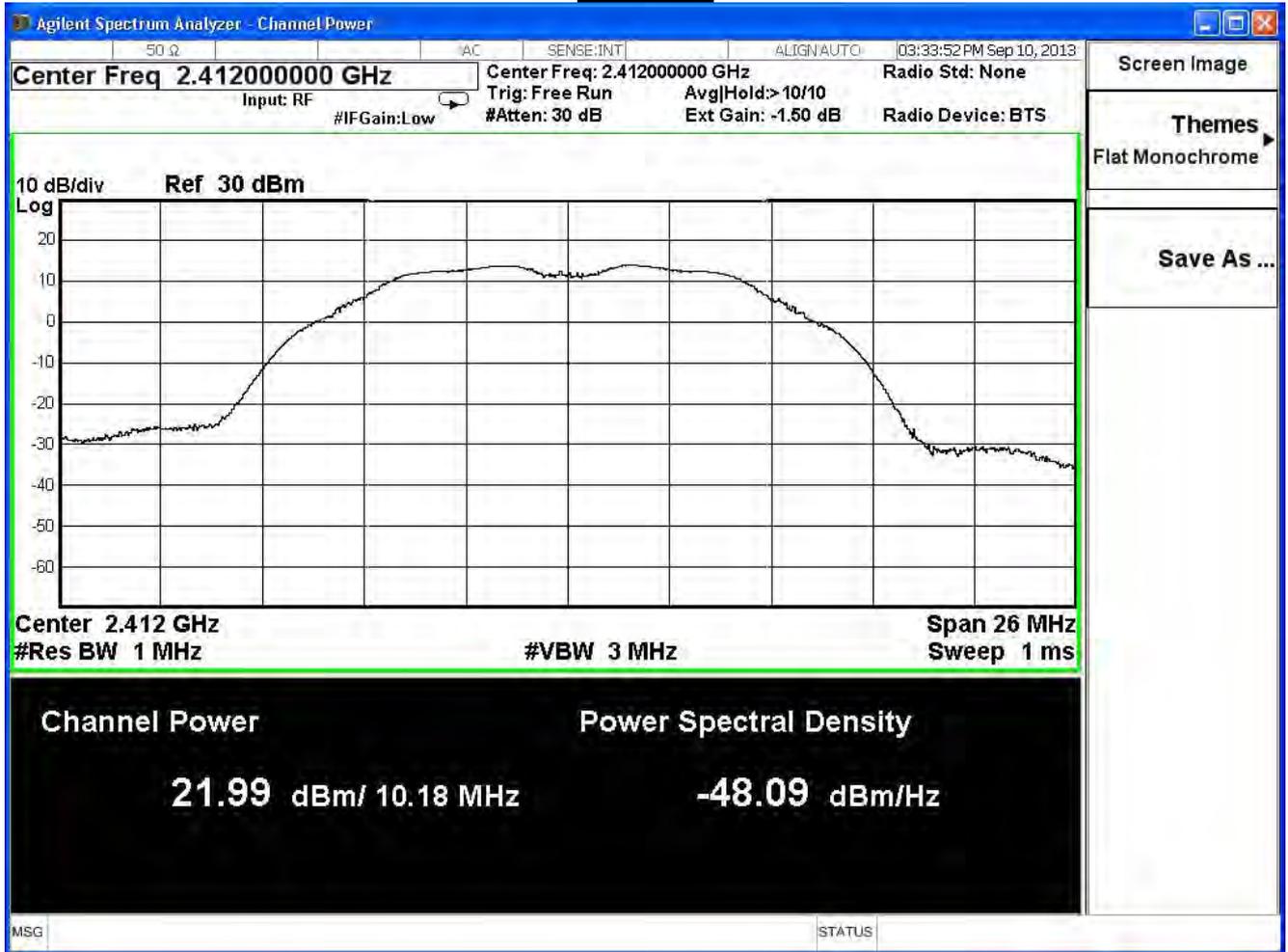
| IEEE 802.11b | | | | |
|--------------|-----------------|---------------------|-------------|--------|
| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
| 1 | 2412 | 21.99 | ≤ 30 | Pass |
| 6 | 2437 | 22.93 | ≤ 30 | Pass |
| 11 | 2462 | 20.91 | ≤ 30 | Pass |

The worst emission of data rate is 1Mbps.

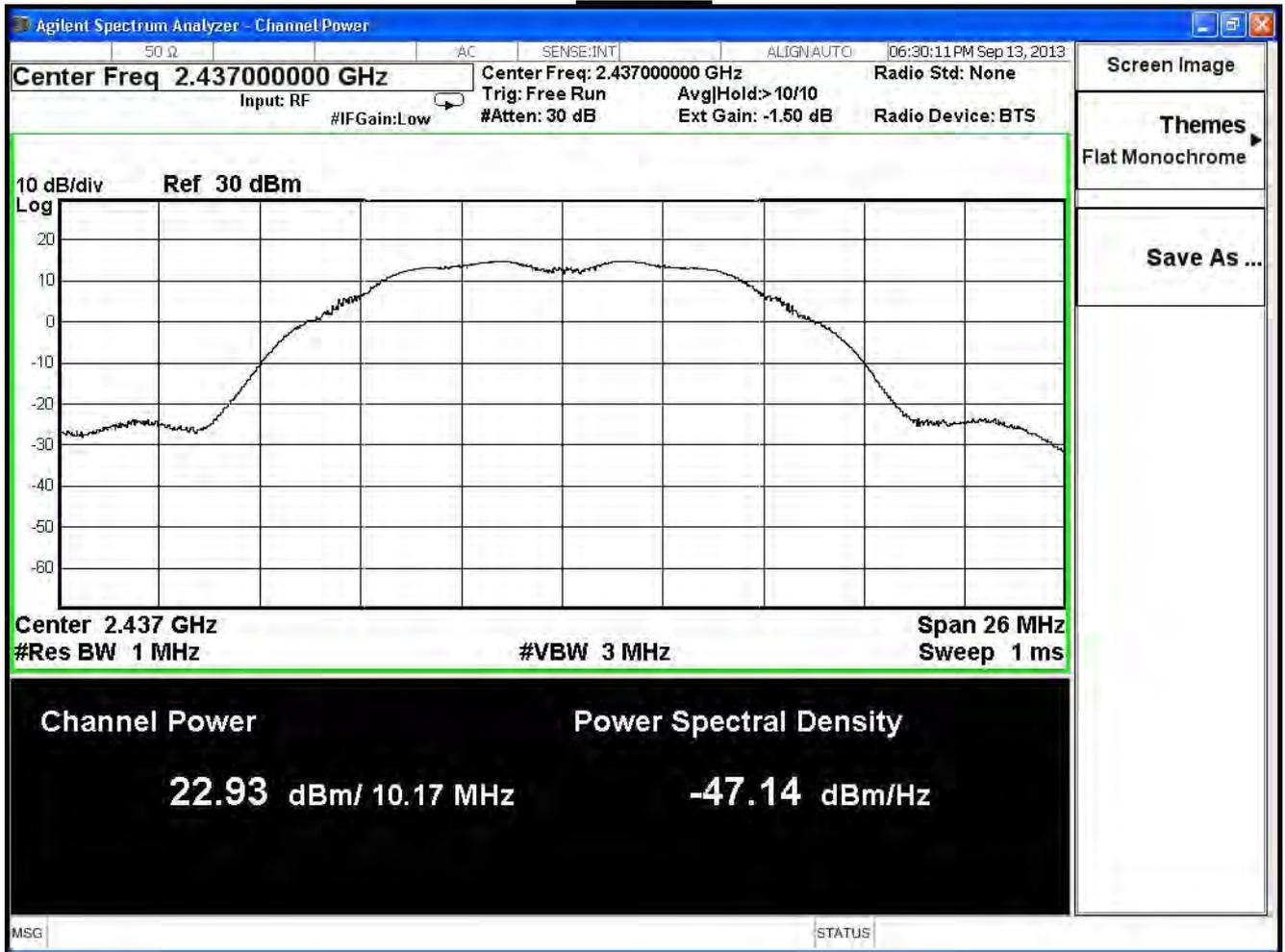
| Peak Power Output Value (dBm) | | | | | | |
|-------------------------------|-----------------|-----------|-------|-------|-------|----------------|
| Channel No. | Frequency (MHz) | Data Rate | | | | Required Limit |
| | | 1 | 2 | 5.5 | 11 | |
| 1 | 2412 | 21.99 | -- | -- | -- | 1 Watt=30dBm |
| 6 | 2437 | 22.93 | 22.73 | 22.53 | 22.33 | 1 Watt=30dBm |
| 11 | 2462 | 20.91 | -- | -- | -- | 1 Watt=30dBm |

Note: Measure Level =Reading value + cable loss

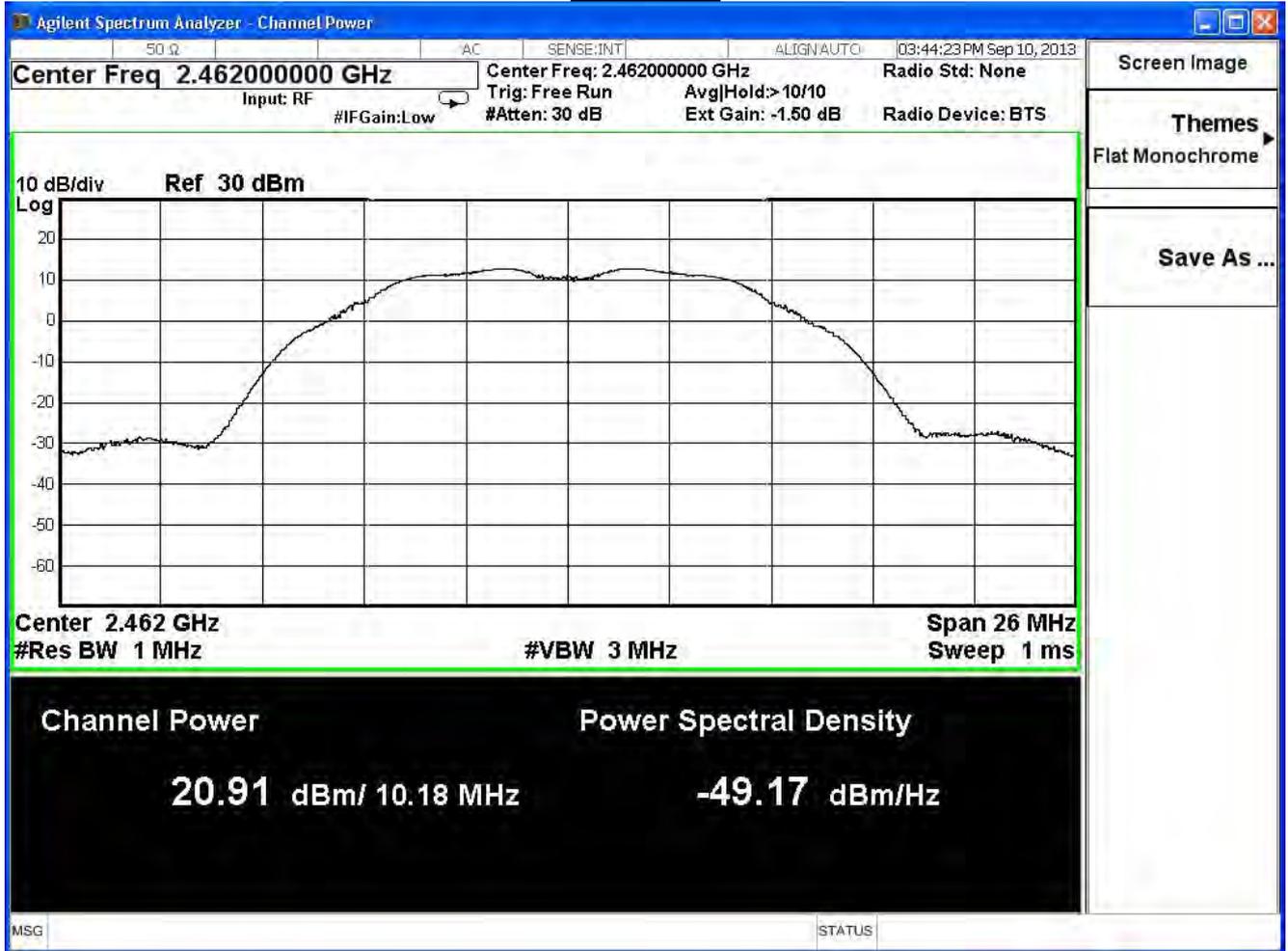
Channel 1



Channel 6



Channel 11



| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Peak Power Output | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

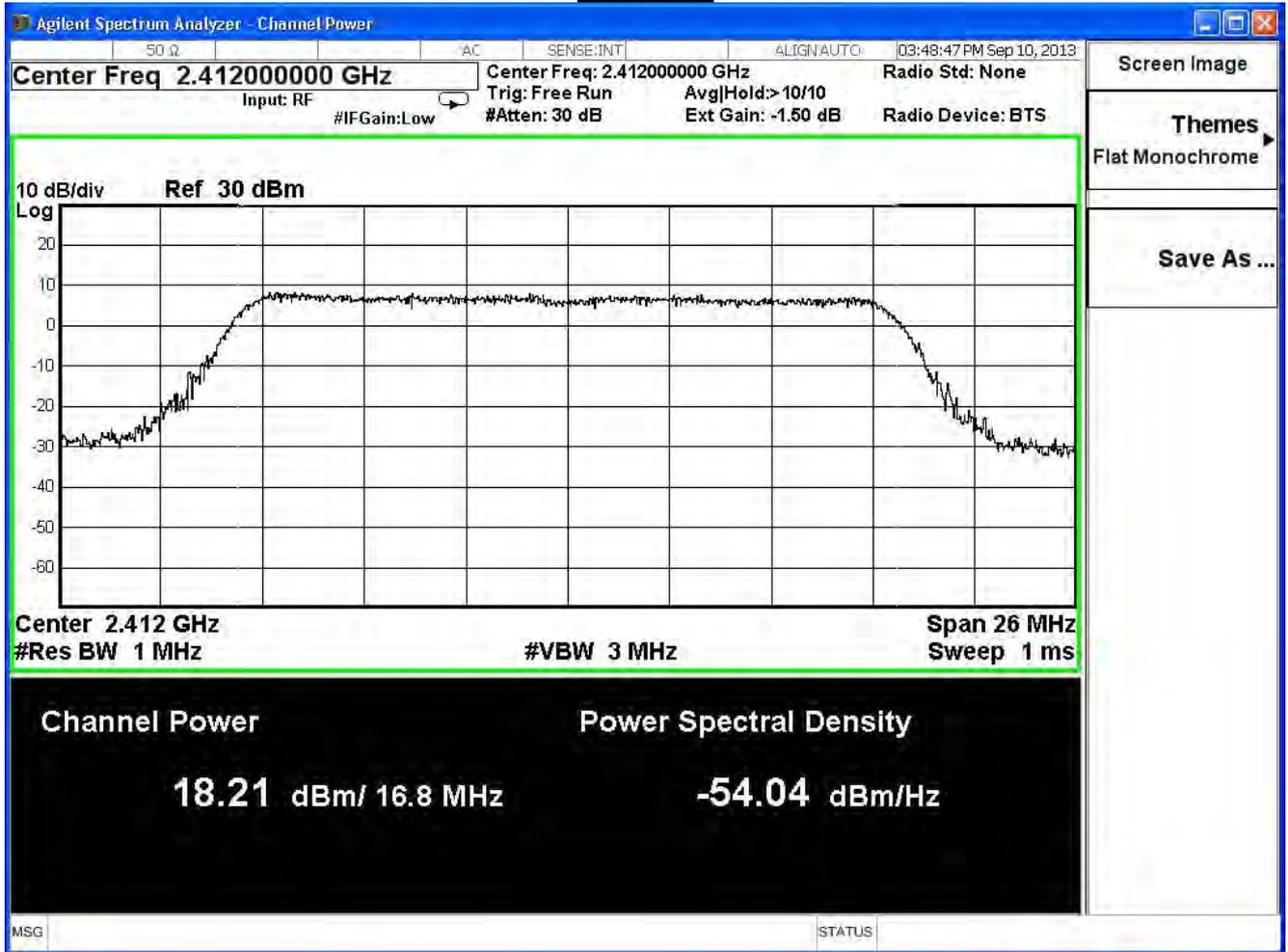
| IEEE 802.11g | | | | |
|--------------|-----------------|---------------------|-------------|--------|
| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
| 1 | 2412 | 18.21 | ≤ 30 | Pass |
| 6 | 2437 | 24.89 | ≤ 30 | Pass |
| 11 | 2462 | 17.69 | ≤ 30 | Pass |

The worst emission of data rate is 6Mbps.

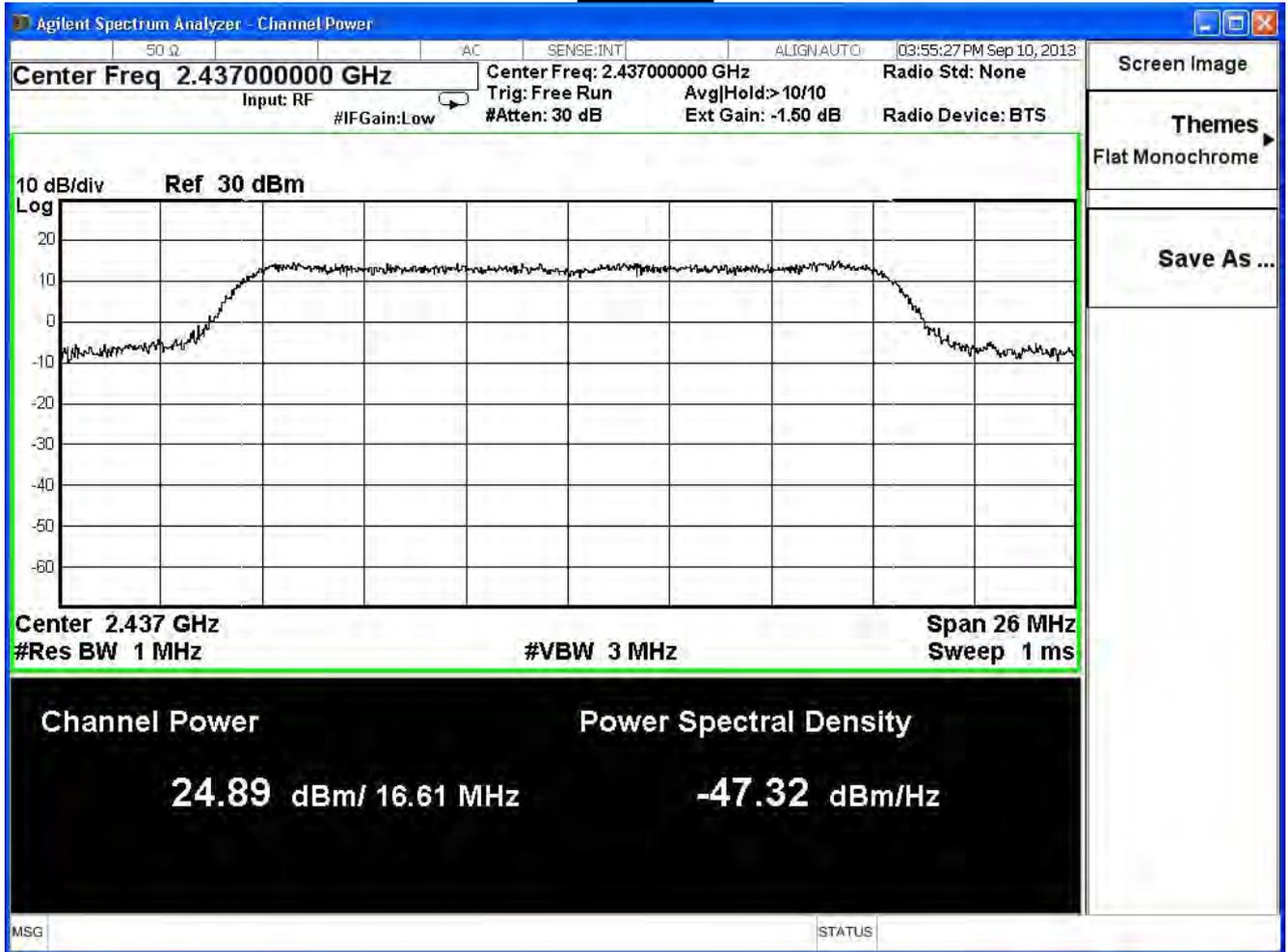
| Peak Power Output Value(dBm) | | | | | | | | | |
|------------------------------|-----------------|------------------|-------|-------|-------|-------|-------|-------|----------------|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | Required Limit |
| | | 6 | 12 | 18 | 24 | 36 | 48 | 54 | |
| 1 | 2412 | 18.21 | -- | -- | -- | -- | -- | -- | 1 Watt=30dBm |
| 6 | 2437 | 24.89 | 24.69 | 24.49 | 24.29 | 24.17 | 24.05 | 23.93 | 1 Watt=30dBm |
| 11 | 2462 | 17.69 | -- | -- | -- | -- | -- | -- | 1 Watt=30dBm |

Note: Measure Level =Reading value + cable loss

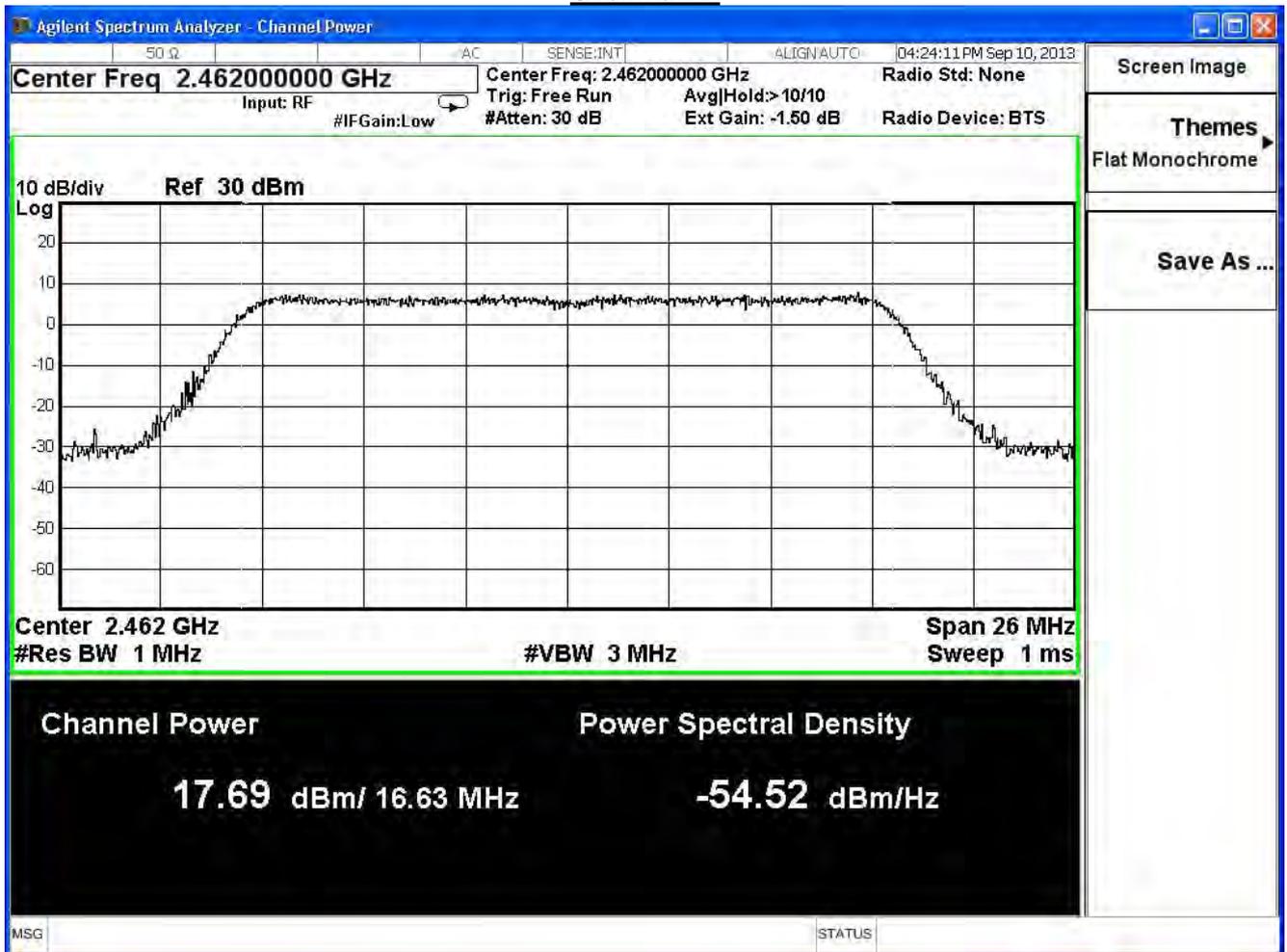
Channel 1



Channel 6



Channel 11



| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Peak Power Output | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

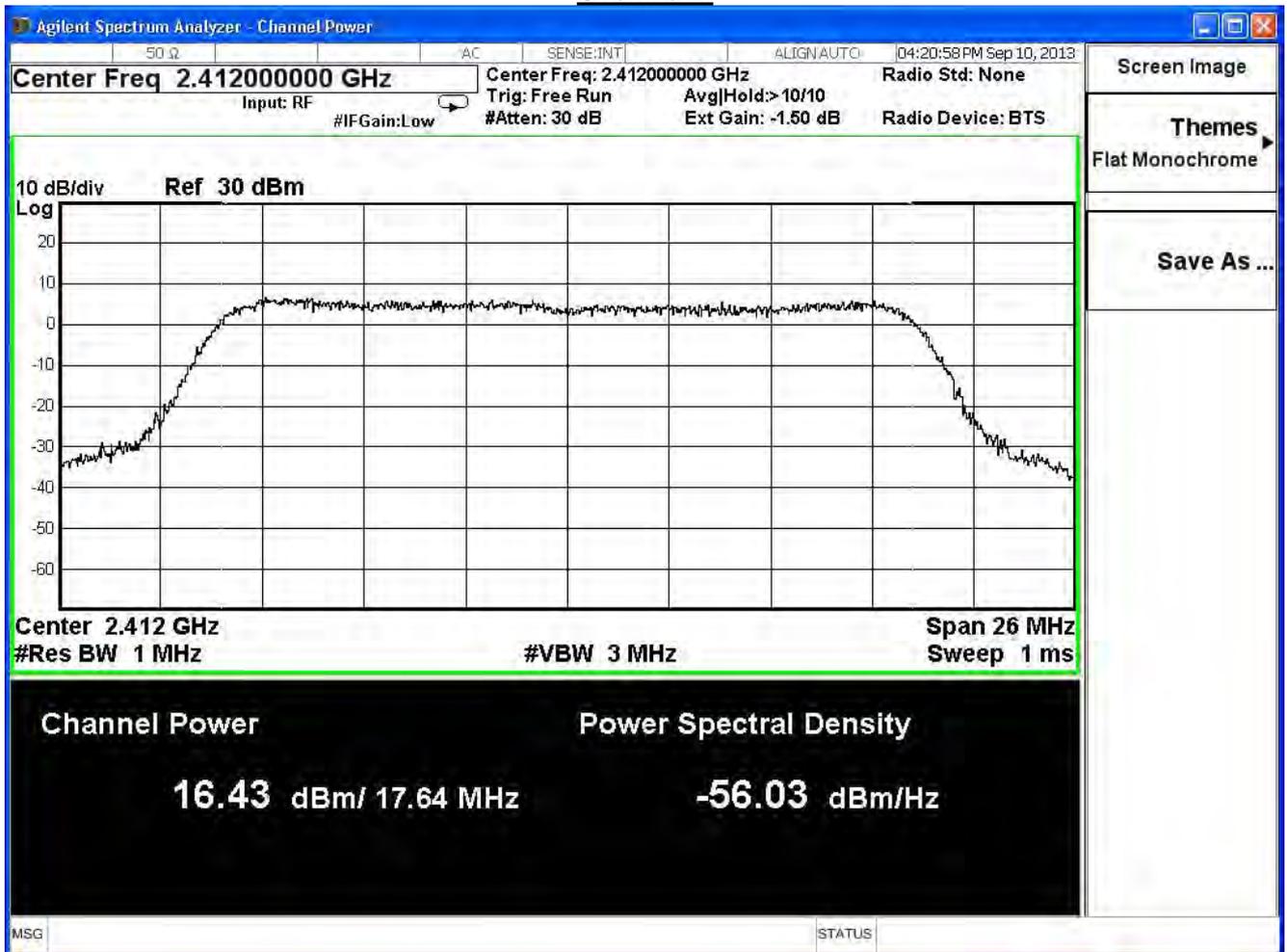
IEEE 802.11n 20MHz (ANT 0)

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 1 | 2412 | 16.43 | ≤ 30 | Pass |
| 6 | 2437 | 24.61 | ≤ 30 | Pass |
| 11 | 2462 | 14.74 | ≤ 30 | Pass |

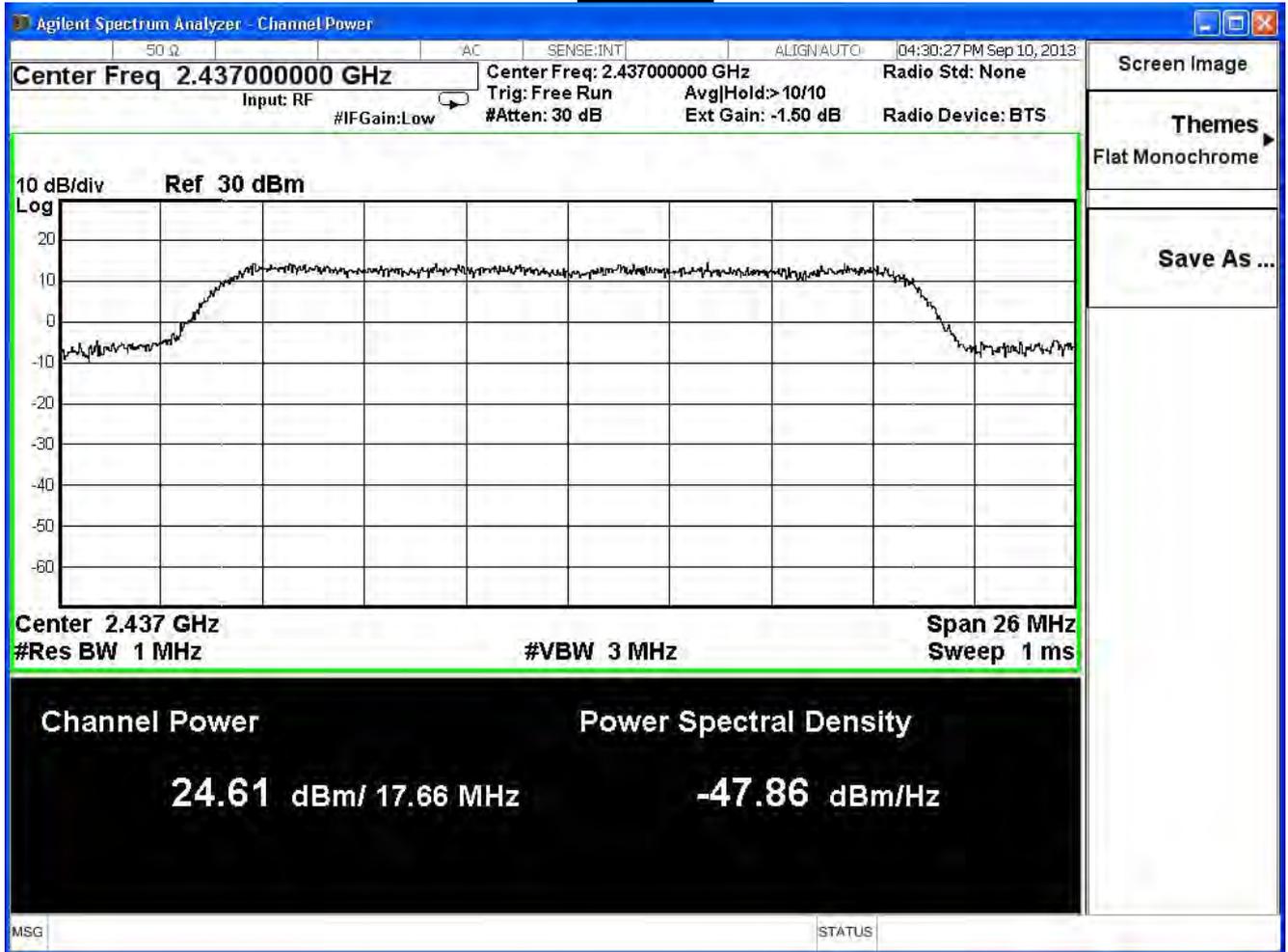
The worst emission of data rate is 13 Mbps.

| Peak Power Output (dBm) | | | | | | | | | | |
|-------------------------|-----------------|-----------|-------|-------|-------|-------|-------|-------|-------|----------------|
| MCS Index | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | Required Limit |
| Channel No | Frequency (MHz) | Data Rate | | | | | | | | |
| | | 13 | 26 | 39 | 52 | 78 | 104 | 117 | 130 | |
| 1 | 2412 | 16.43 | -- | -- | -- | -- | -- | -- | -- | 30dBm |
| 6 | 2437 | 24.61 | 24.51 | 24.41 | 24.31 | 24.11 | 23.99 | 23.75 | 23.63 | 30dBm |
| 11 | 2462 | 14.74 | -- | -- | -- | -- | -- | -- | -- | 30dBm |

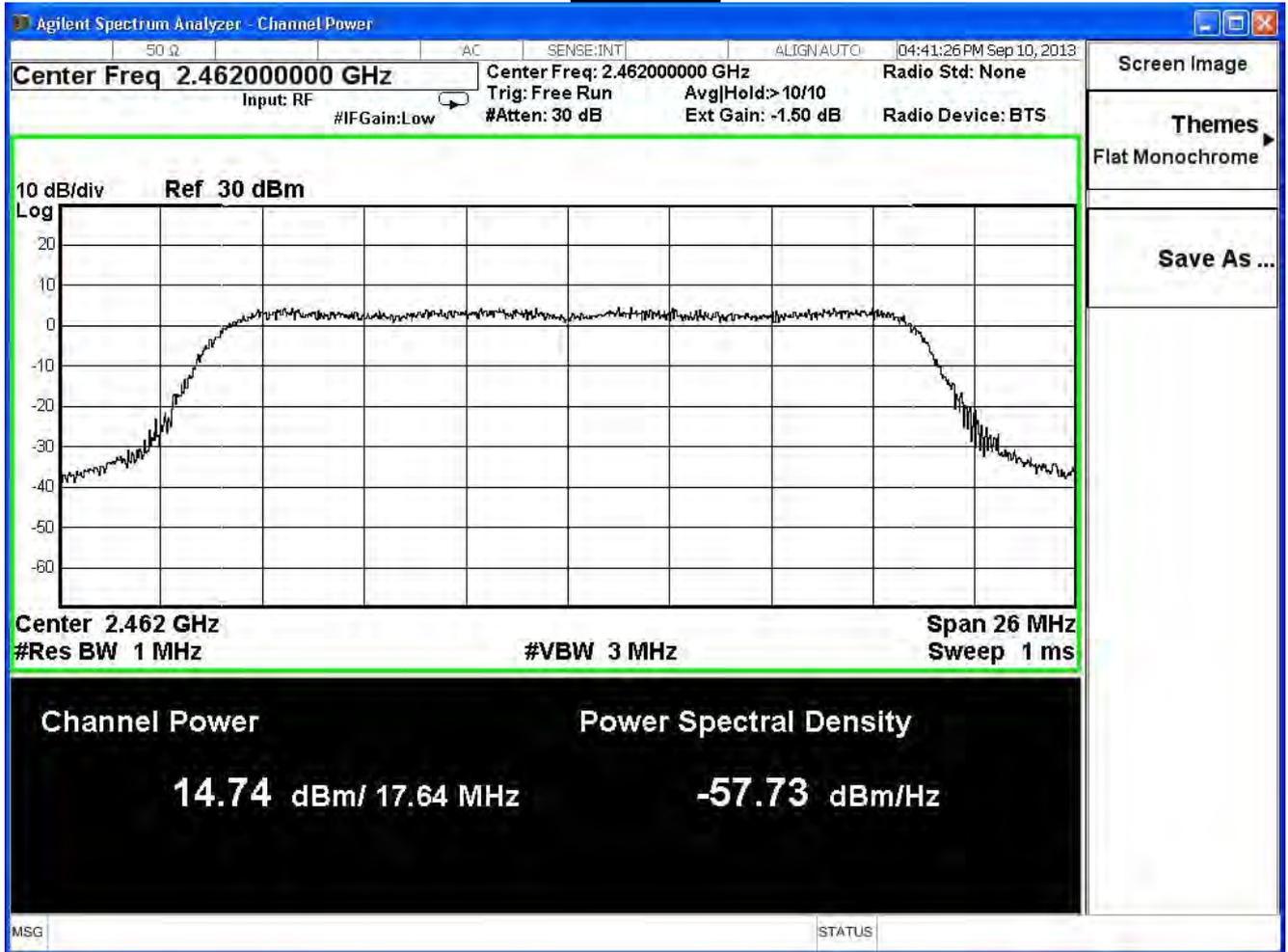
Channel 1



Channel 6



Channel 11



| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Peak Power Output | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

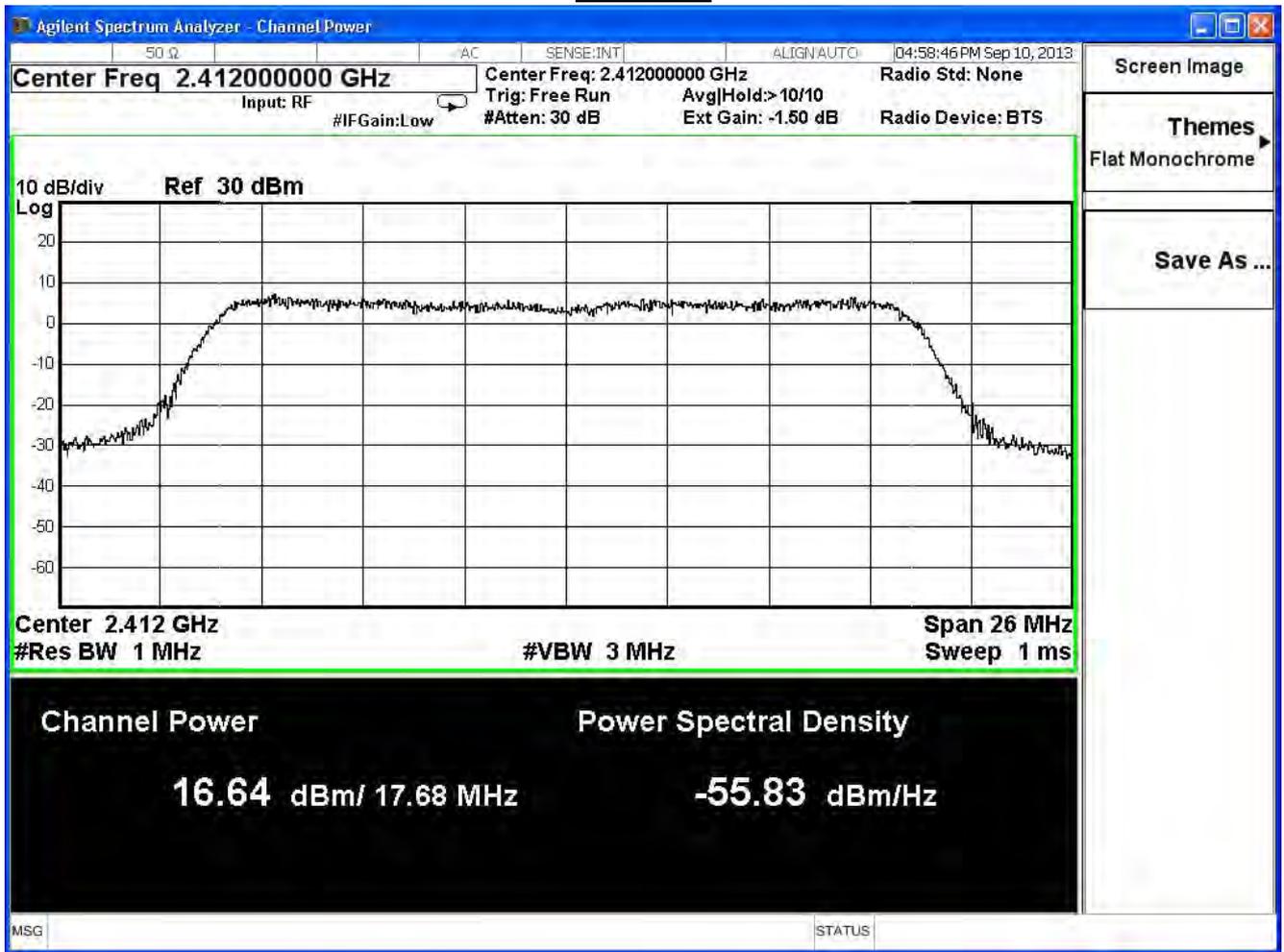
IEEE 802.11n 20MHz (ANT 1)

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 1 | 2412 | 16.64 | ≤ 30 | Pass |
| 6 | 2437 | 24.59 | ≤ 30 | Pass |
| 11 | 2462 | 15.03 | ≤ 30 | Pass |

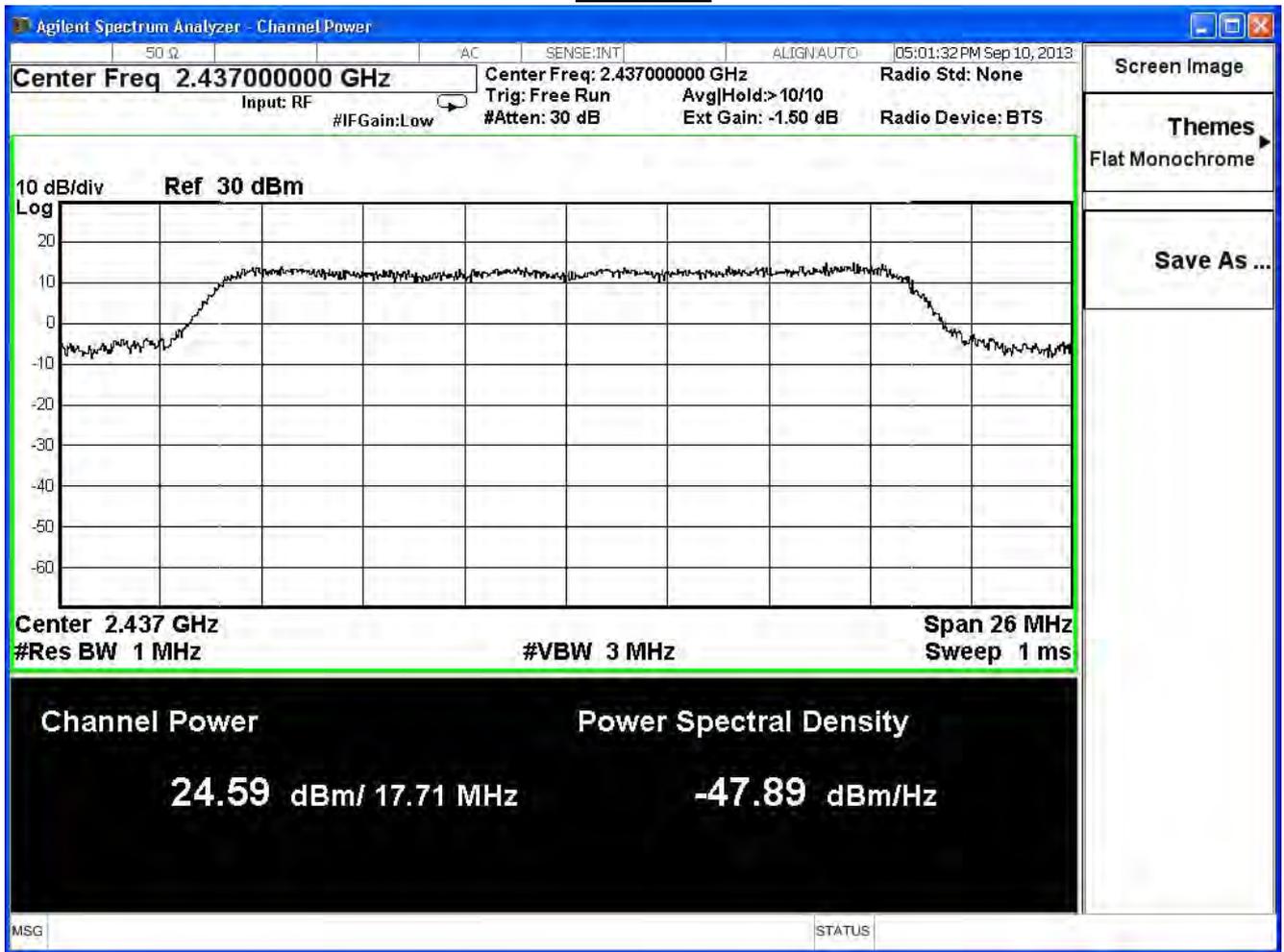
The worst emission of data rate is 13 Mbps.

| Peak Power Output (dBm) | | | | | | | | | | |
|-------------------------|-----------------|-----------|-------|-------|-------|-------|-------|-------|-------|----------------|
| MCS Index | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | Required Limit |
| Channel No | Frequency (MHz) | Data Rate | | | | | | | | |
| | | 13 | 26 | 39 | 52 | 78 | 104 | 117 | 130 | |
| 1 | 2412 | 16.64 | -- | -- | -- | -- | -- | -- | -- | 30dBm |
| 6 | 2437 | 24.59 | 24.49 | 24.39 | 24.19 | 23.99 | 23.75 | 23.63 | 23.39 | 30dBm |
| 11 | 2462 | 15.03 | -- | -- | -- | -- | -- | -- | -- | 30dBm |

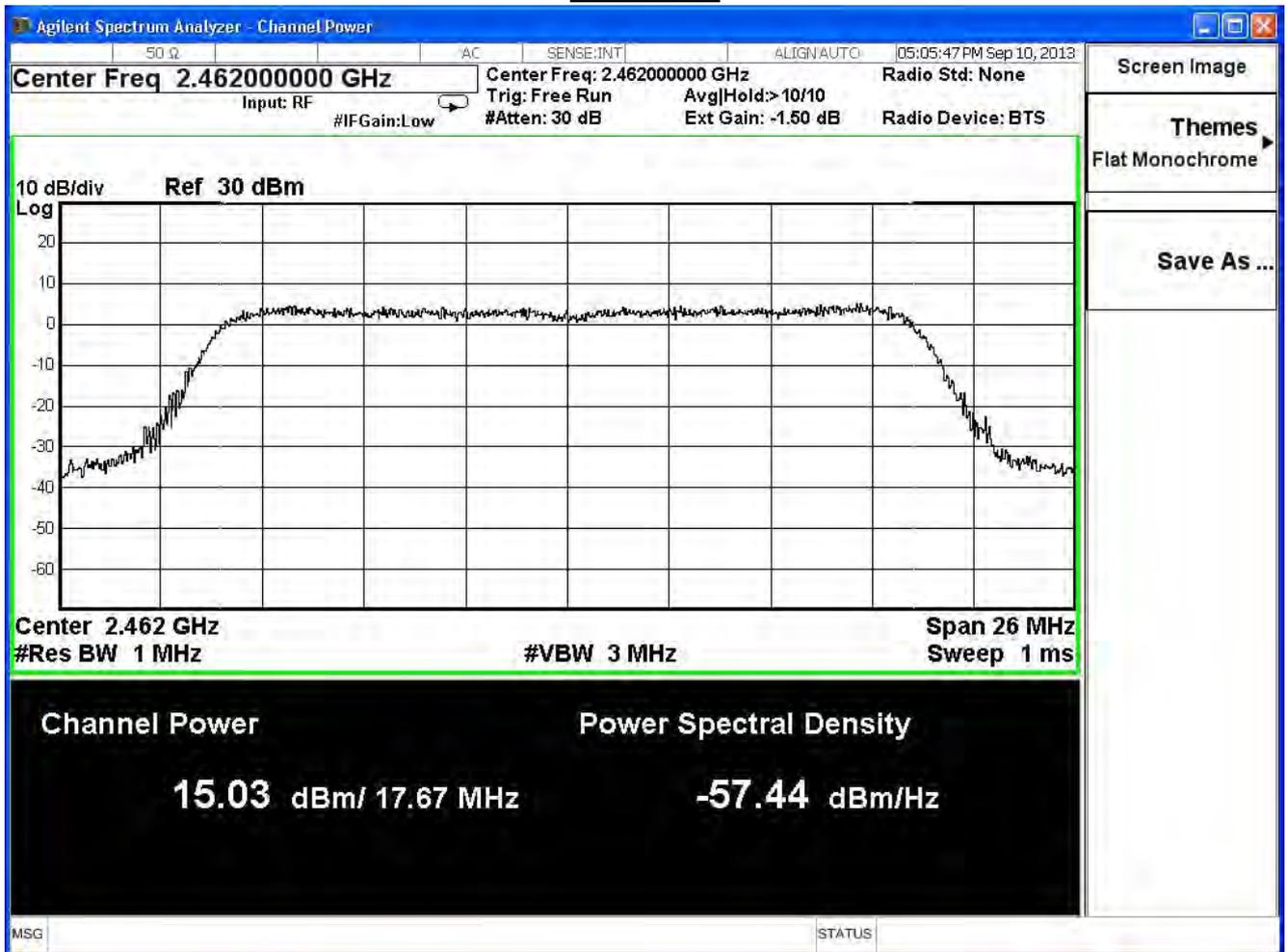
Channel 1



Channel 6



Channel 11



| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Peak Power Output | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

IEEE 802.11n 20MHz (ANT 0+1)

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 1 | 2412 | 19.55 | ≤ 30 | Pass |
| 6 | 2437 | 27.61 | ≤ 30 | Pass |
| 11 | 2462 | 17.90 | ≤ 30 | Pass |

| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Peak Power Output | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

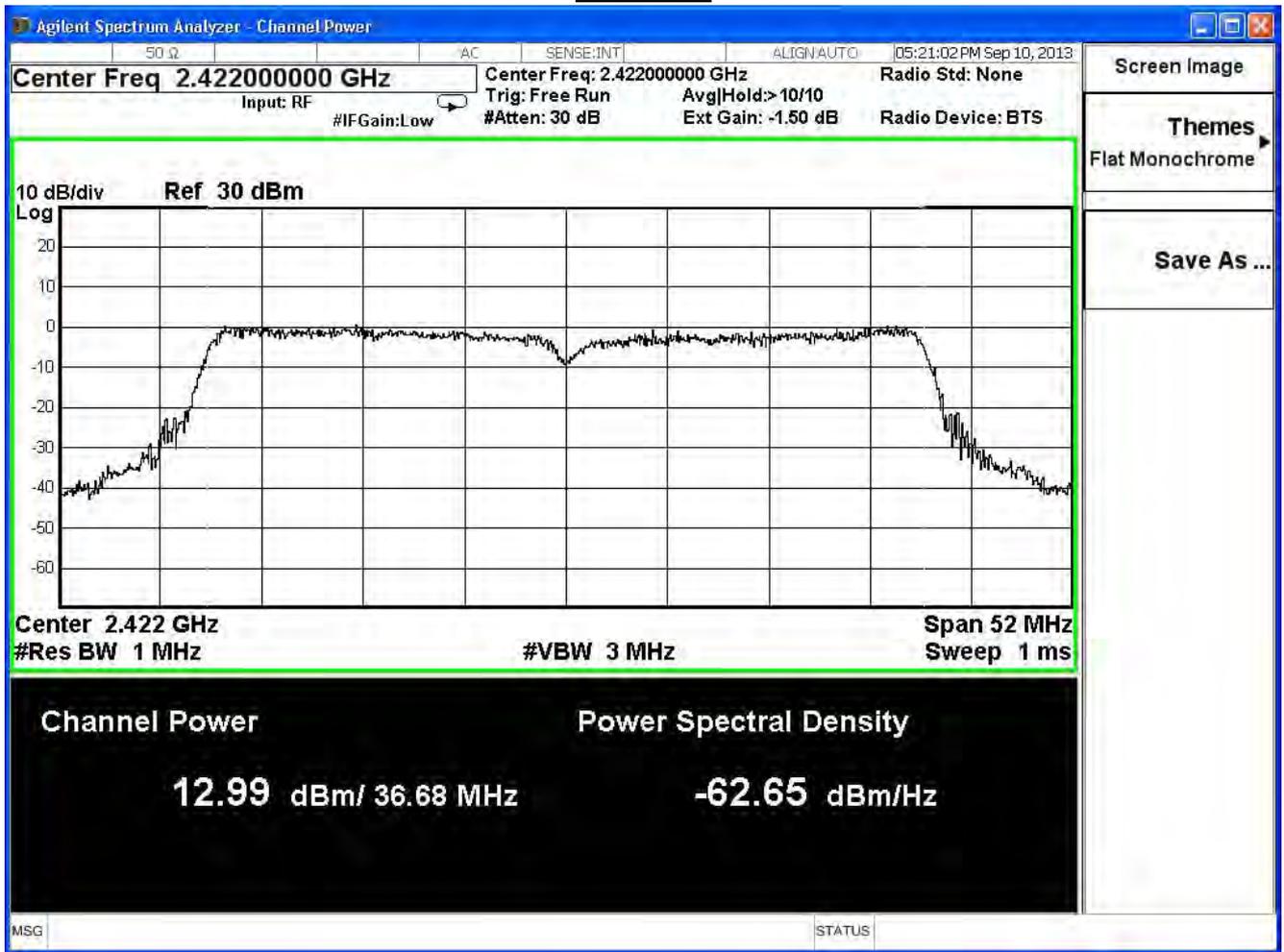
IEEE802.11n 40MHz (ANT 0)

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 3 | 2422 | 12.99 | ≤ 30 | Pass |
| 6 | 2437 | 16.71 | ≤ 30 | Pass |
| 9 | 2452 | 13.91 | ≤ 30 | Pass |

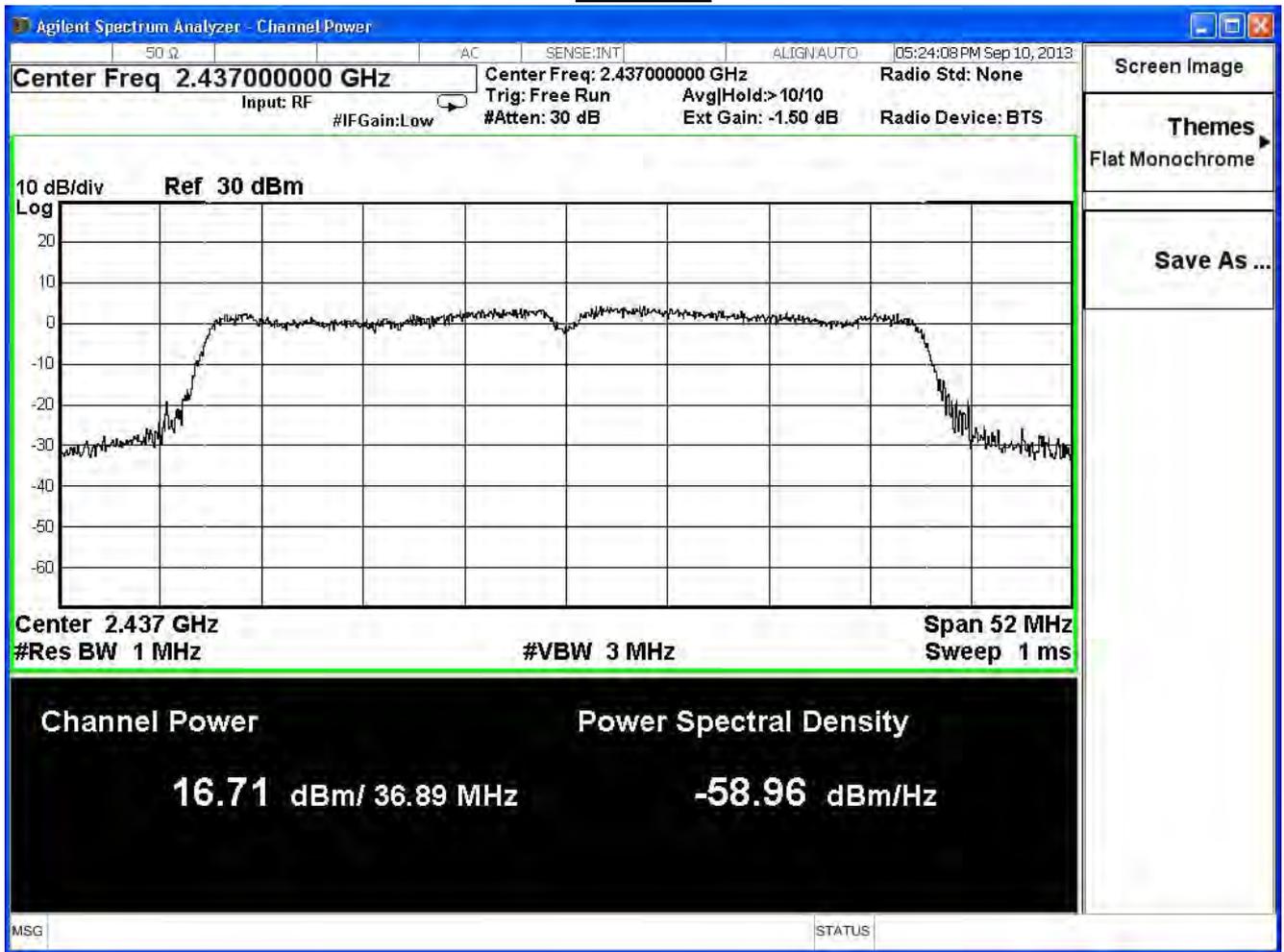
The worst emission of data rate is 27Mbps

| | | Peak Power Output (dBm) | | | | | | | | Required Limit |
|------------|-----------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|----------------|
| MCS Index | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| Channel No | Frequency (MHz) | Data Rate | | | | | | | | |
| | | 27 | 54 | 81 | 108 | 162 | 216 | 243 | 270 | |
| 3 | 2422 | 12.99 | -- | -- | -- | -- | -- | -- | -- | 30dBm |
| 6 | 2437 | 16.71 | 16.51 | 16.31 | 16.21 | 16.01 | 15.77 | 15.65 | 15.41 | 30dBm |
| 9 | 2452 | 13.91 | -- | -- | -- | -- | -- | -- | -- | 30dBm |

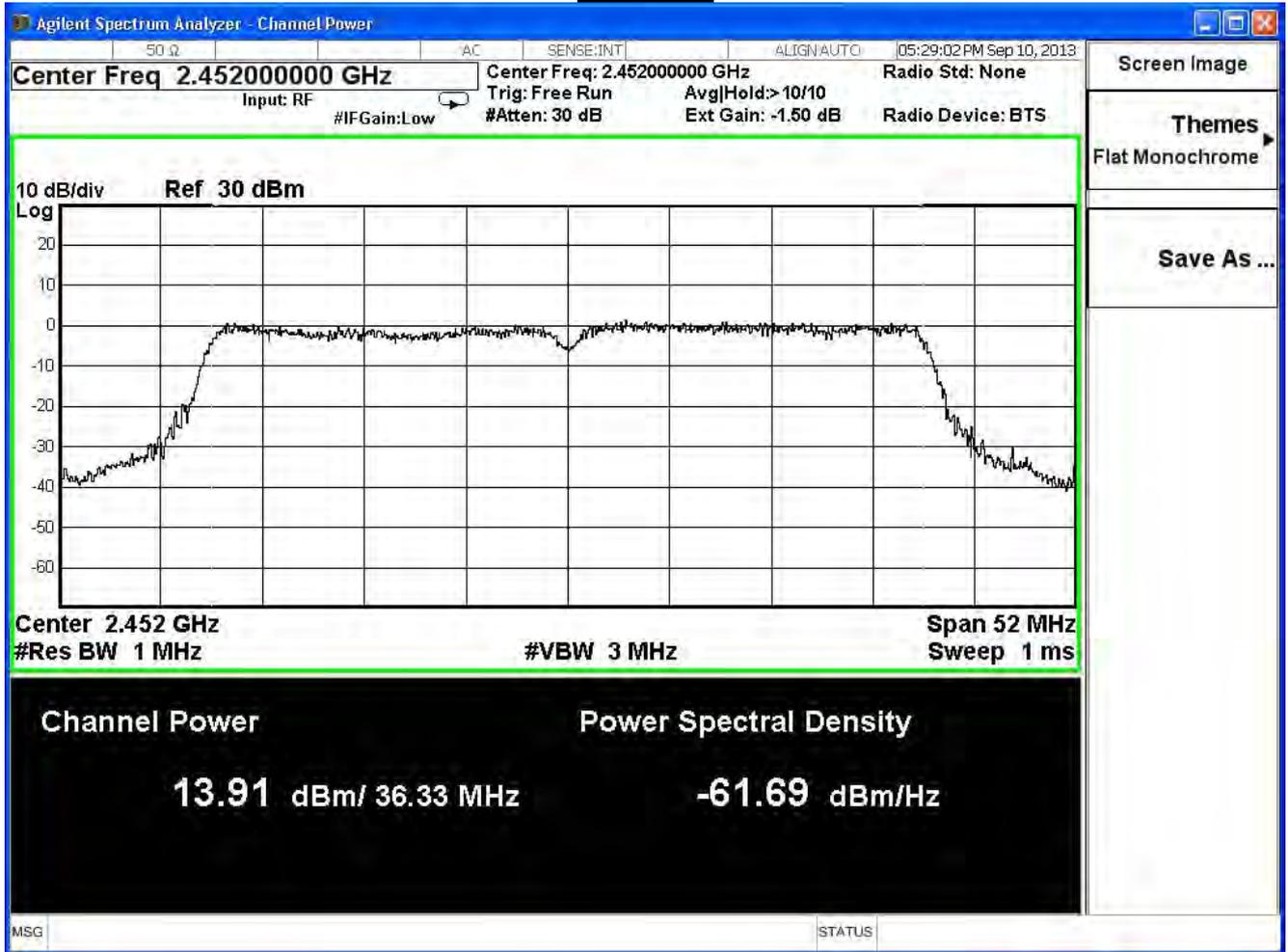
Channel 3



Channel 6



Channel 9



| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Peak Power Output | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

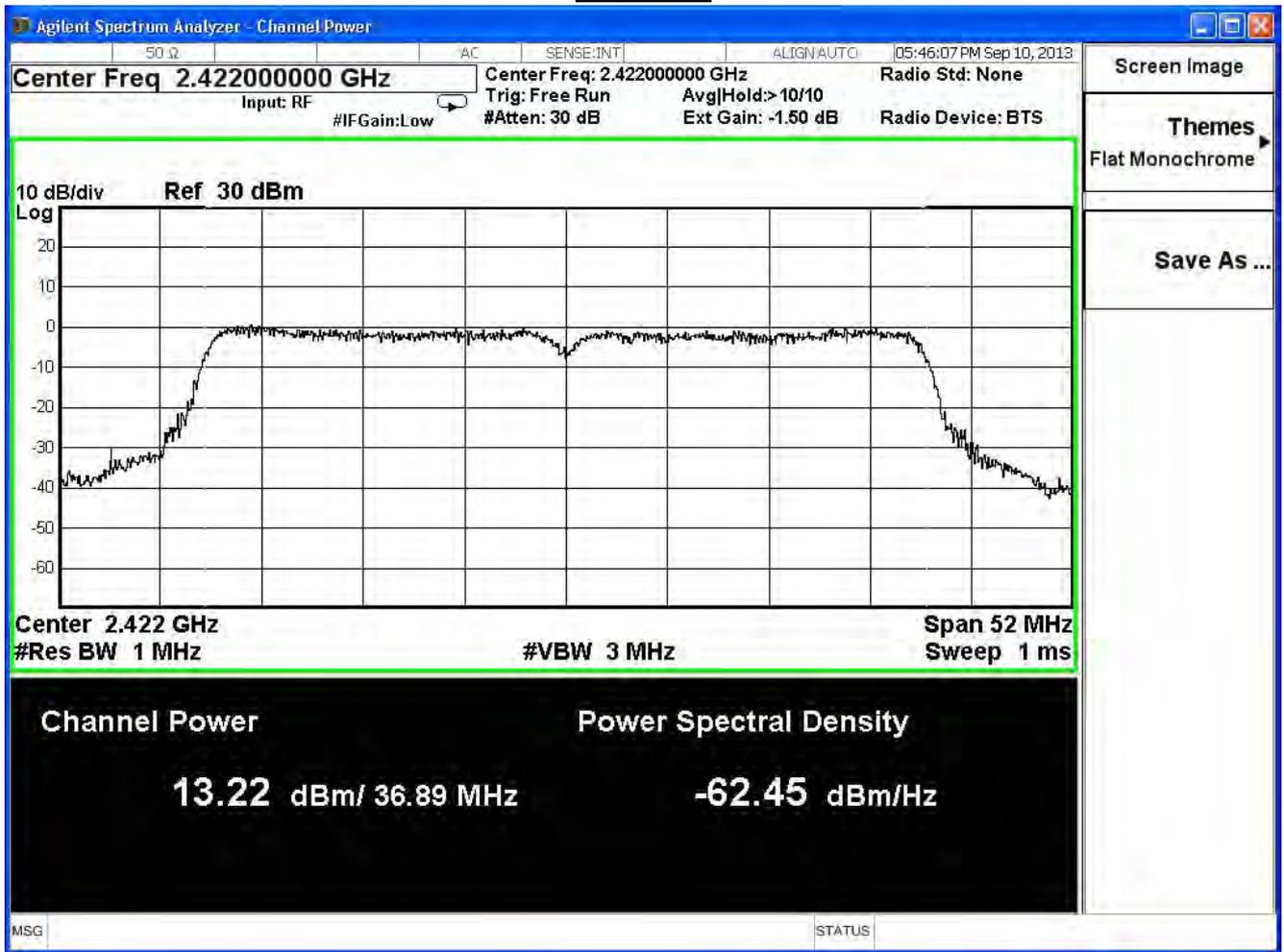
IEEE802.11n 40MHz (ANT 1)

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 3 | 2422 | 13.22 | ≤ 30 | Pass |
| 6 | 2437 | 16.88 | ≤ 30 | Pass |
| 9 | 2452 | 14.33 | ≤ 30 | Pass |

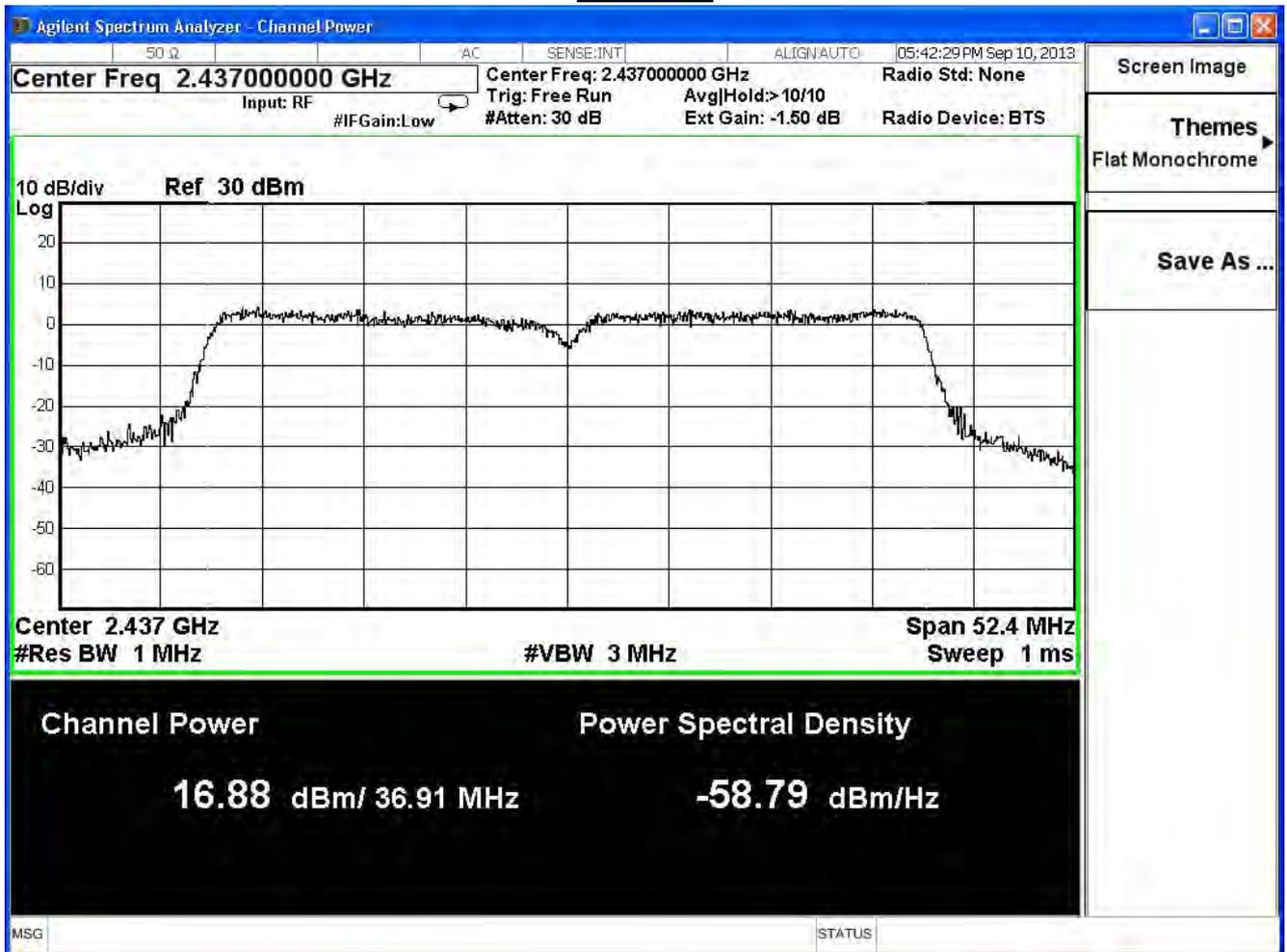
The worst emission of data rate is 27Mbps

| Peak Power Output (dBm) | | | | | | | | | | |
|-------------------------|-----------------|-----------|-------|-------|-------|-------|-------|-------|-------|----------------|
| MCS Index | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | Required Limit |
| Channel No | Frequency (MHz) | Data Rate | | | | | | | | |
| | | 27 | 54 | 81 | 108 | 162 | 216 | 243 | 270 | |
| 3 | 2422 | 13.22 | -- | -- | -- | -- | -- | -- | -- | 30dBm |
| 6 | 2437 | 16.88 | 16.78 | 16.68 | 16.58 | 16.38 | 16.14 | 15.90 | 15.66 | 30dBm |
| 9 | 2452 | 14.33 | -- | -- | -- | -- | -- | -- | -- | 30dBm |

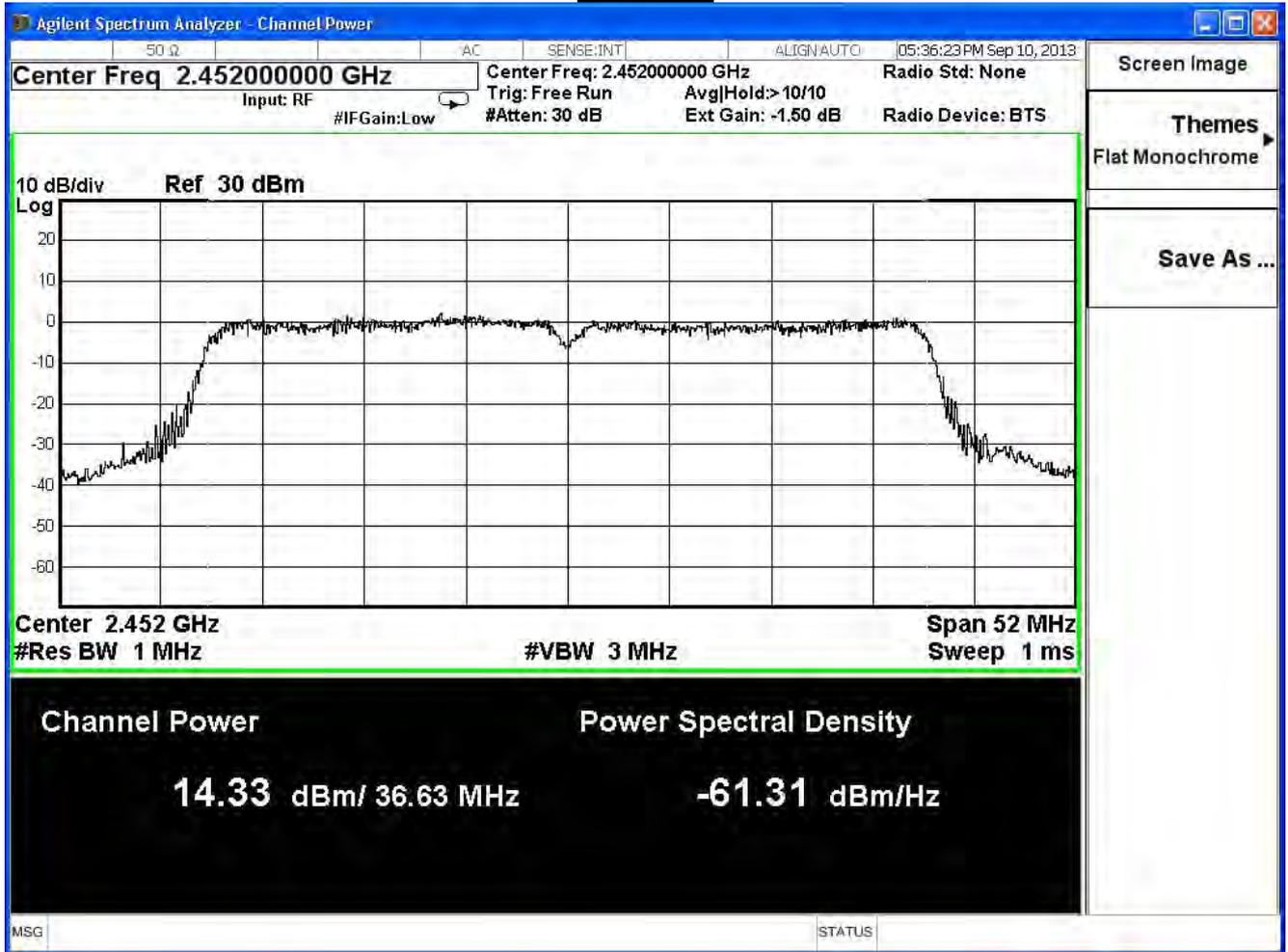
Channel 3



Channel 6



Channel 9



| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Peak Power Output | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

IEEE802.11n 40MHz (ANT 0+1)

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 3 | 2422 | 16.12 | ≤ 30 | Pass |
| 6 | 2437 | 19.81 | ≤ 30 | Pass |
| 9 | 2452 | 17.14 | ≤ 30 | Pass |

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

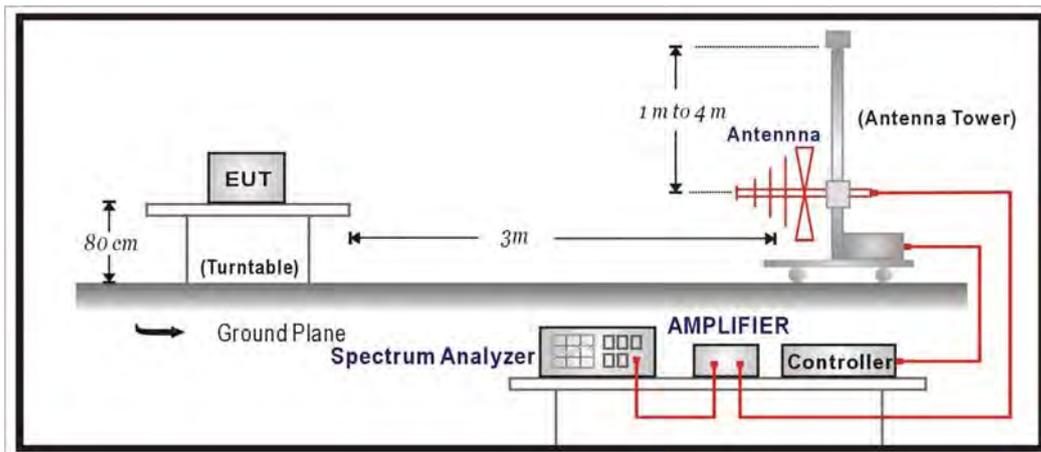
Radiated Emission / CB1

| Instrument | Manufacturer | Model No. | Serial No | Next Cal. Date |
|----------------------------------|--------------|----------------------|-------------|----------------|
| Bilog Antenna | SCHAFFNER | CBL6112B | 2895(CB1) | 2014/08/14 |
| Double Ridged Guide Horn Antenna | Schwarzback | BBHA 9120 | D743 | 2014/02/17 |
| Pre-Amplifier | MITEQ | AMF-4D-005180-24-10P | 888003 | 2014/06/09 |
| Pre-Amplifier | QuieTek | AP-025C | CHM-0706049 | 2014/02/19 |
| Spectrum Analyzer | Agilent | E4440A | MY46187335 | 2014/01/27 |
| k Type Cable | Huber Suhner | Sucoflex 102 | 25623/2 | 2014/02/21 |

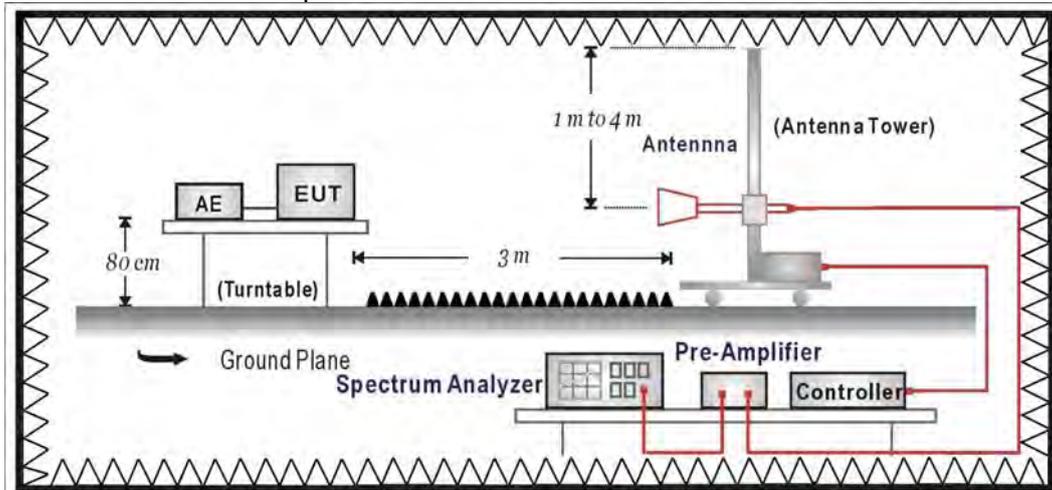
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| FCC Part 15 Subpart C Paragraph 15.209 Limits | | |
|--|--------|--------|
| Frequency MHz | dBuV/m | dBuV/m |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated measurement.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2012

4.6. Uncertainty

The measurement uncertainty

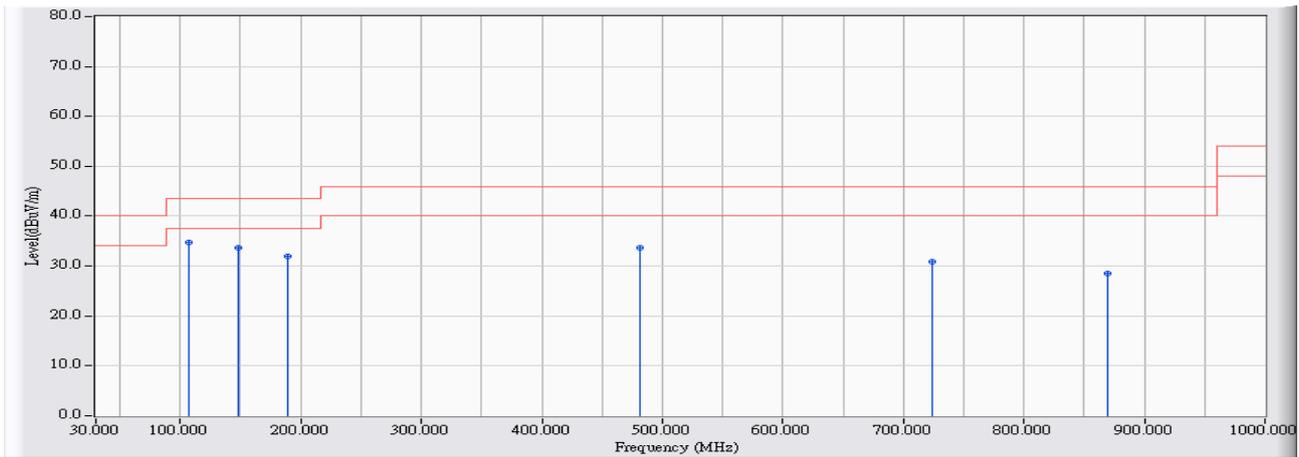
30MHz~1GHz as ±3.43dB

1GHz~26.5Ghz as ±3.65dB

4.7. Test Result

30MHz-1GHz Spurious

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/06/12 - 10:11 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6 |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL | Power : AC 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2437MHz |

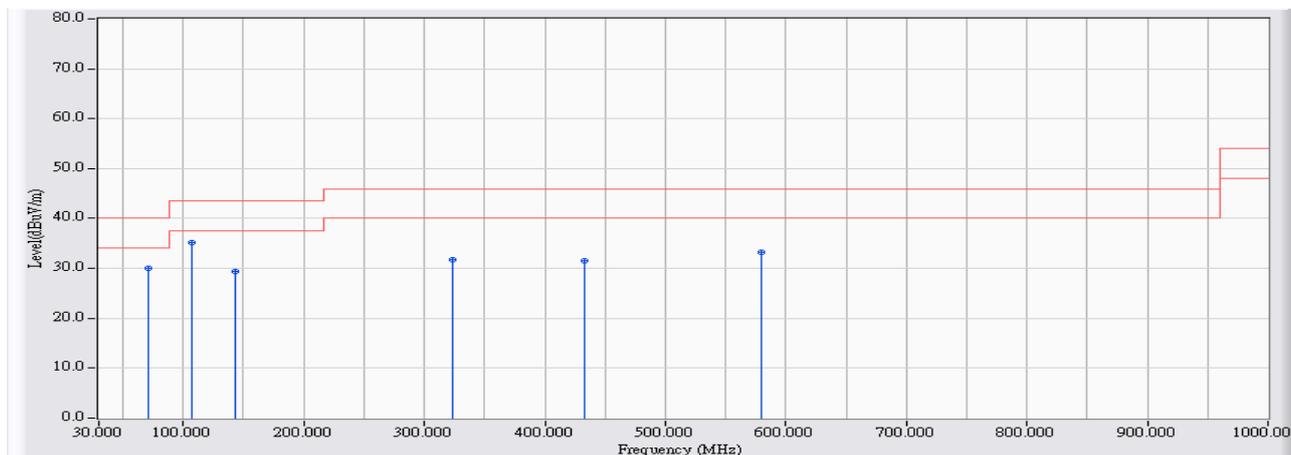


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 106.620 | -12.446 | 47.201 | 34.755 | -8.745 | 43.500 | QUASPEAK |
| 2 | | 148.340 | -12.982 | 46.606 | 33.624 | -9.876 | 43.500 | QUASPEAK |
| 3 | | 189.080 | -14.587 | 46.593 | 32.006 | -11.494 | 43.500 | QUASPEAK |
| 4 | | 481.040 | -5.546 | 39.102 | 33.556 | -12.444 | 46.000 | QUASPEAK |
| 5 | | 724.520 | -3.913 | 34.751 | 30.838 | -15.162 | 46.000 | QUASPEAK |
| 6 | | 870.010 | -2.614 | 31.102 | 28.488 | -17.512 | 46.000 | QUASPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/06/12 - 10:17 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6 |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL | Power : AC 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2437MHz |

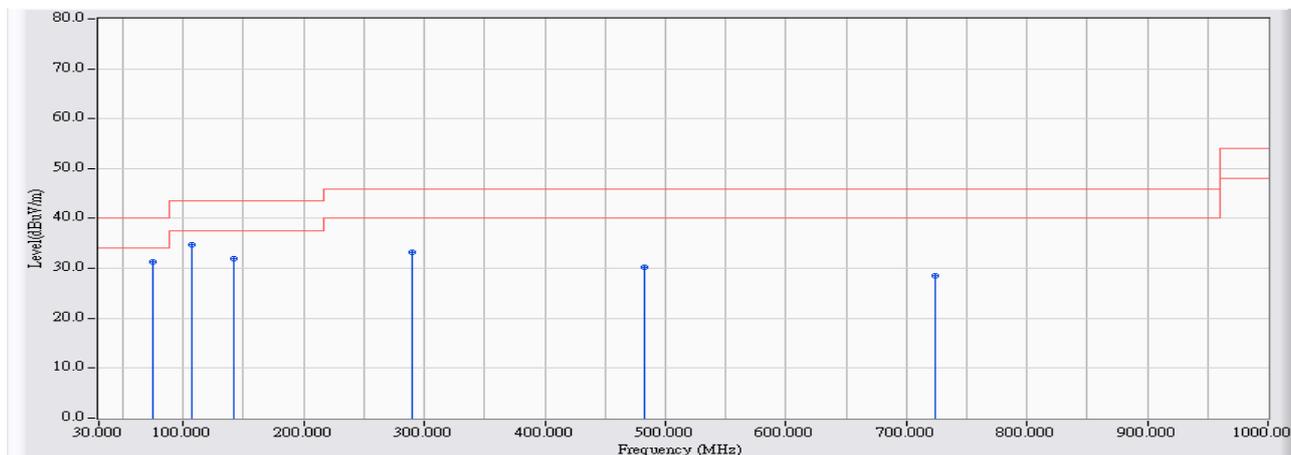


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 70.730 | -16.953 | 46.963 | 30.010 | -9.990 | 40.000 | QUASPEAK |
| 2 | * 106.630 | -12.446 | 47.632 | 35.186 | -8.314 | 43.500 | QUASPEAK |
| 3 | 143.490 | -12.730 | 42.006 | 29.276 | -14.224 | 43.500 | QUASPEAK |
| 4 | 322.940 | -9.362 | 41.011 | 31.649 | -14.351 | 46.000 | QUASPEAK |
| 5 | 432.540 | -6.678 | 38.132 | 31.454 | -14.546 | 46.000 | QUASPEAK |
| 6 | 579.990 | -4.916 | 38.156 | 33.240 | -12.760 | 46.000 | QUASPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/06/12 - 10:23 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6 |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL | Power : AC 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2437MHz |

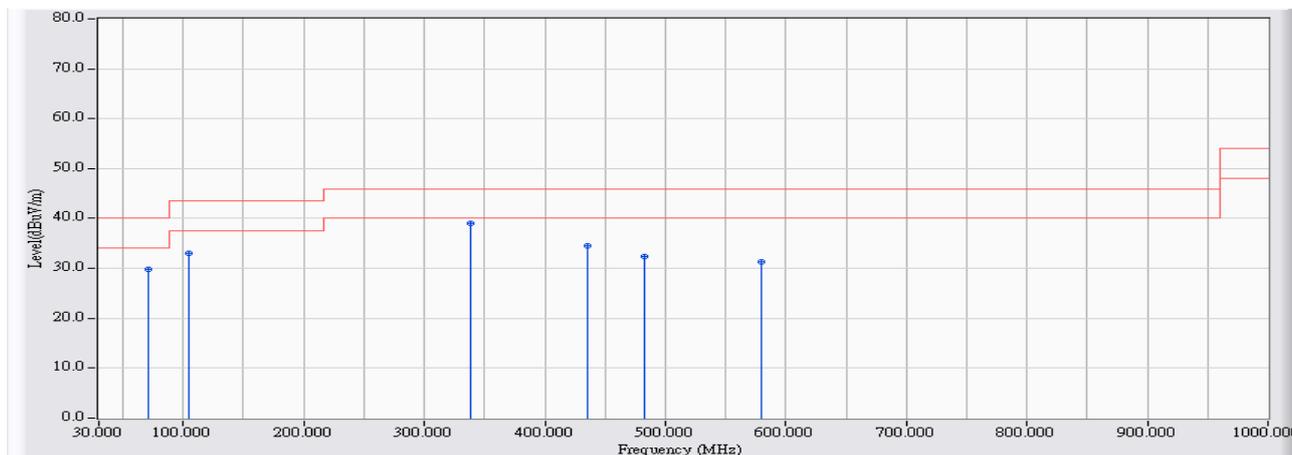


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 74.610 | -16.669 | 48.042 | 31.373 | -8.627 | 40.000 | QUASPEAK |
| 2 | | 106.630 | -12.446 | 47.101 | 34.655 | -8.845 | 43.500 | QUASPEAK |
| 3 | | 141.550 | -12.629 | 44.575 | 31.946 | -11.554 | 43.500 | QUASPEAK |
| 4 | | 289.960 | -10.127 | 43.442 | 33.315 | -12.685 | 46.000 | QUASPEAK |
| 5 | | 482.990 | -5.499 | 35.786 | 30.287 | -15.713 | 46.000 | QUASPEAK |
| 6 | | 724.530 | -3.913 | 32.521 | 28.608 | -17.392 | 46.000 | QUASPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/06/12 - 10:28 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6 |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL | Power : AC 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2437MHz |

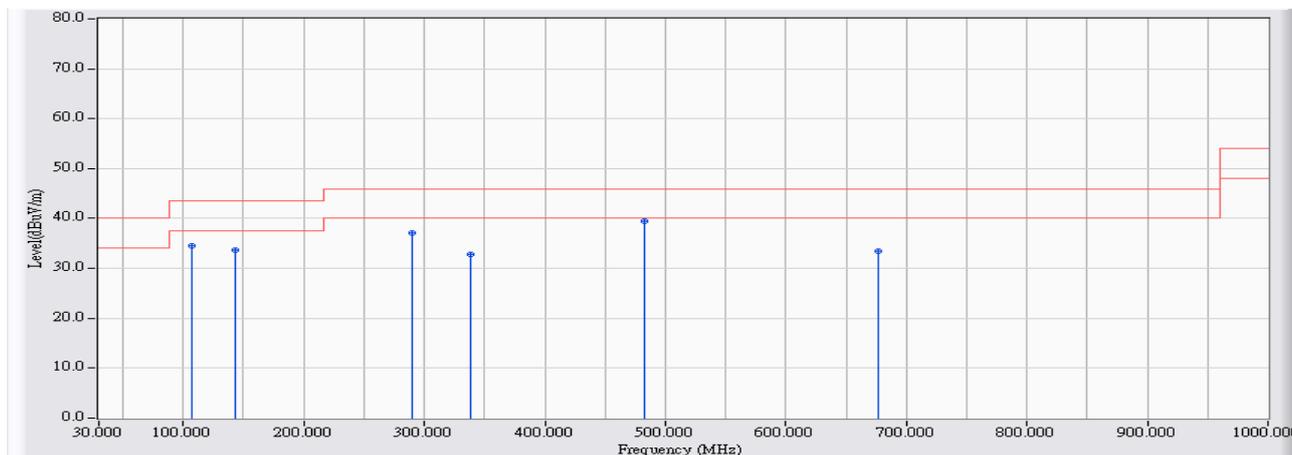


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 70.740 | -16.953 | 46.783 | 29.830 | -10.170 | 40.000 | QUASPEAK |
| 2 | 104.690 | -12.537 | 45.585 | 33.048 | -10.452 | 43.500 | QUASPEAK |
| 3 | * 338.460 | -8.980 | 48.096 | 39.116 | -6.884 | 46.000 | QUASPEAK |
| 4 | 435.460 | -6.615 | 41.231 | 34.616 | -11.384 | 46.000 | QUASPEAK |
| 5 | 482.990 | -5.499 | 37.94 | 32.441 | -13.559 | 46.000 | QUASPEAK |
| 6 | 579.990 | -4.916 | 36.252 | 31.336 | -14.664 | 46.000 | QUASPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/06/12 - 10:32 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6 |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL | Power : AC 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) 2437MHz |

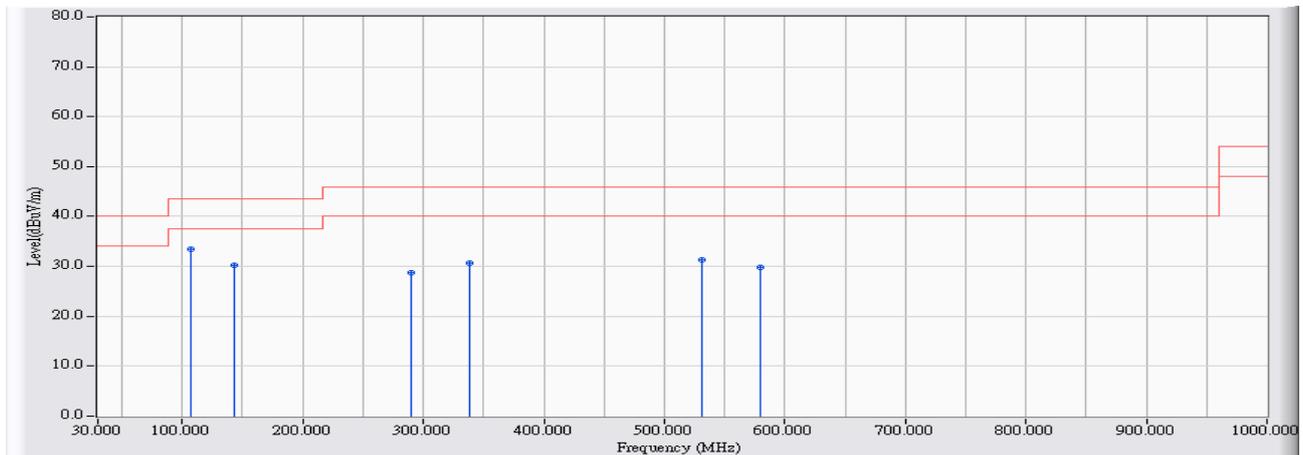


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 106.630 | -12.446 | 46.881 | 34.435 | -9.065 | 43.500 | QUASPEAK |
| 2 | 143.490 | -12.730 | 46.435 | 33.705 | -9.795 | 43.500 | QUASPEAK |
| 3 | 289.960 | -10.127 | 47.157 | 37.030 | -8.970 | 46.000 | QUASPEAK |
| 4 | 338.460 | -8.980 | 41.736 | 32.756 | -13.244 | 46.000 | QUASPEAK |
| 5 | * 482.990 | -5.499 | 45.012 | 39.513 | -6.487 | 46.000 | QUASPEAK |
| 6 | 676.990 | -4.377 | 37.935 | 33.558 | -12.442 | 46.000 | QUASPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/06/12 - 10:36 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6 |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL | Power : AC 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) 2437MHz |

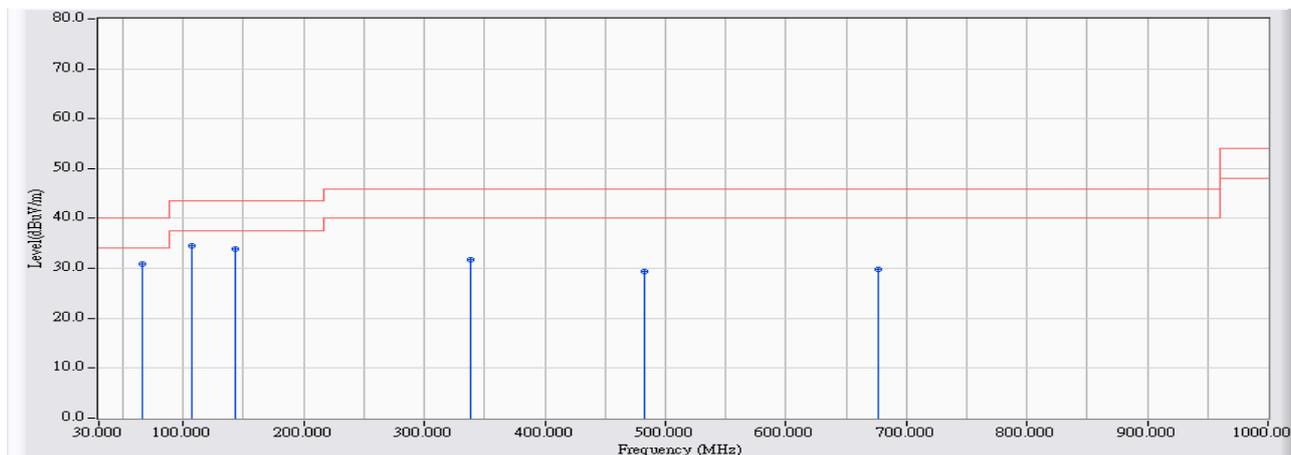


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 106.620 | -12.446 | 45.956 | 33.510 | -9.990 | 43.500 | QUASPEAK |
| 2 | | 143.490 | -12.730 | 42.906 | 30.176 | -13.324 | 43.500 | QUASPEAK |
| 3 | | 289.960 | -10.127 | 38.934 | 28.807 | -17.193 | 46.000 | QUASPEAK |
| 4 | | 338.460 | -8.980 | 39.708 | 30.728 | -15.272 | 46.000 | QUASPEAK |
| 5 | | 531.490 | -5.012 | 36.275 | 31.263 | -14.737 | 46.000 | QUASPEAK |
| 6 | | 579.990 | -4.916 | 34.686 | 29.770 | -16.230 | 46.000 | QUASPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/06/12 - 10:40 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6 |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL | Power : AC 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz) 2437MHz |

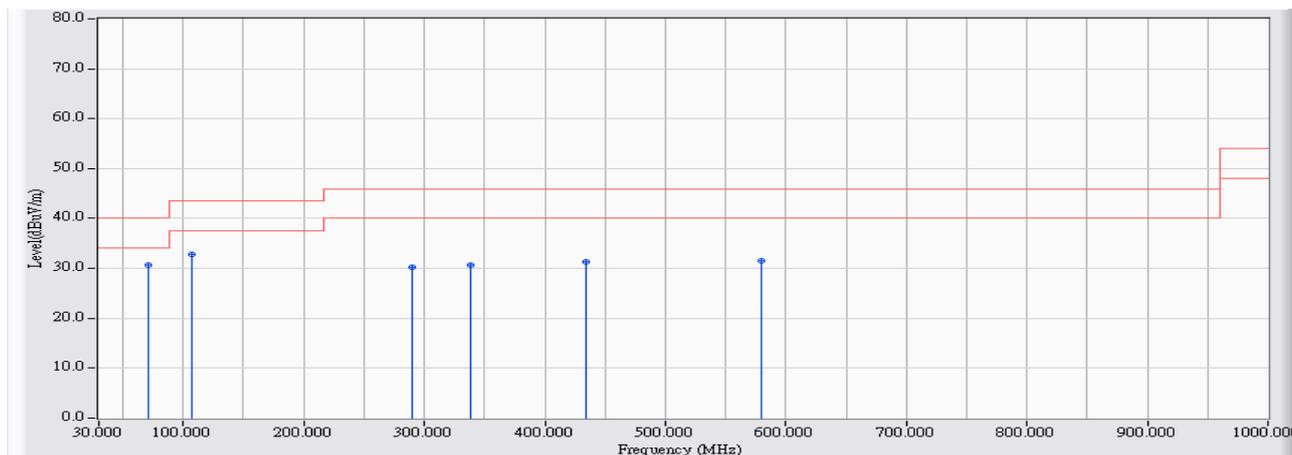


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 65.880 | -16.931 | 47.826 | 30.895 | -9.105 | 40.000 | QUASPEAK |
| 2 | * 106.630 | -12.446 | 46.887 | 34.441 | -9.059 | 43.500 | QUASPEAK |
| 3 | 143.490 | -12.730 | 46.612 | 33.882 | -9.618 | 43.500 | QUASPEAK |
| 4 | 338.450 | -8.980 | 40.714 | 31.734 | -14.266 | 46.000 | QUASPEAK |
| 5 | 482.990 | -5.499 | 34.845 | 29.346 | -16.654 | 46.000 | QUASPEAK |
| 6 | 676.990 | -4.377 | 34.133 | 29.756 | -16.244 | 46.000 | QUASPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/06/12 - 10:44 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6 |
| Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL | Power : AC 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz) 2437MHz |



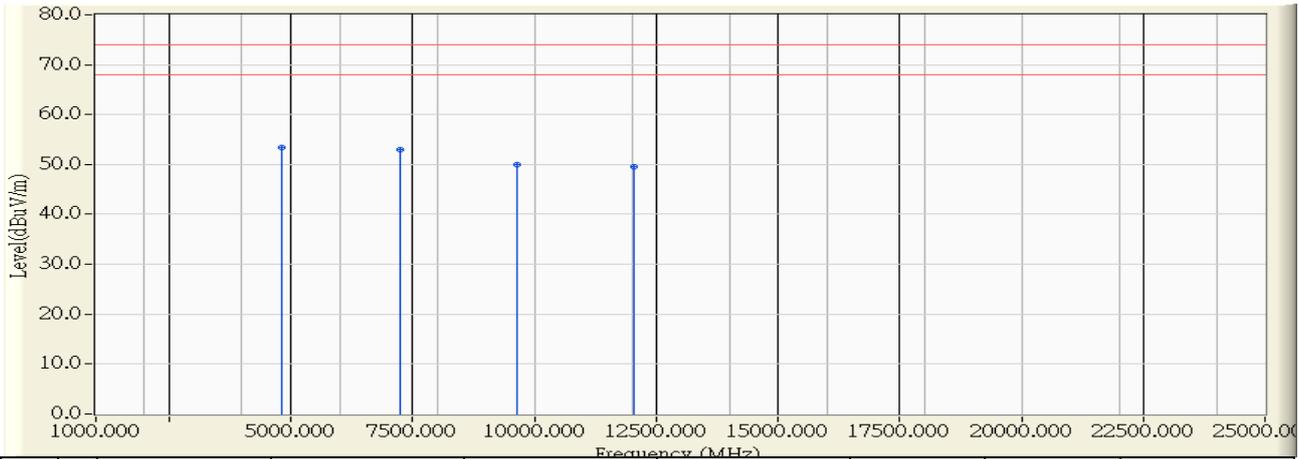
| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 70.740 | -16.953 | 47.653 | 30.700 | -9.300 | 40.000 | QUASPEAK |
| 2 | | 106.620 | -12.446 | 45.224 | 32.778 | -10.722 | 43.500 | QUASPEAK |
| 3 | | 289.960 | -10.127 | 40.356 | 30.229 | -15.771 | 46.000 | QUASPEAK |
| 4 | | 338.460 | -8.980 | 39.657 | 30.677 | -15.323 | 46.000 | QUASPEAK |
| 5 | | 434.490 | -6.635 | 37.905 | 31.270 | -14.730 | 46.000 | QUASPEAK |
| 6 | | 579.980 | -4.916 | 36.532 | 31.616 | -14.384 | 46.000 | QUASPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Above 1GHz Spurious

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/15 - 17:37 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2412MHz |

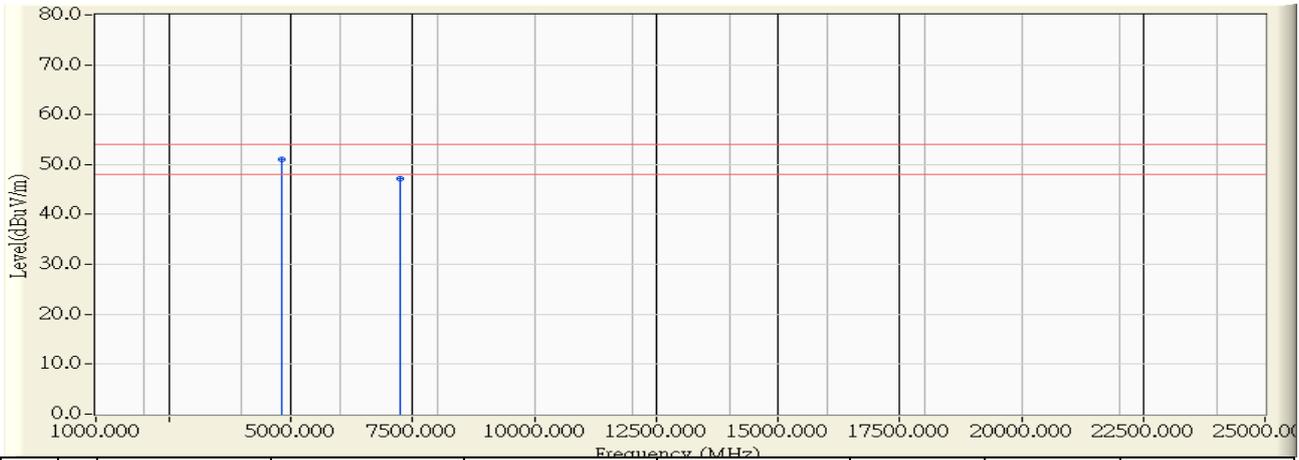


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 4824.000 | -0.617 | 54.080 | 53.463 | -20.537 | 74.000 | PEAK |
| 2 | | 7236.000 | 5.445 | 47.570 | 53.015 | -20.985 | 74.000 | PEAK |
| 3 | | 9648.000 | 9.226 | 40.780 | 50.006 | -23.994 | 74.000 | PEAK |
| 4 | | 12060.000 | 11.115 | 38.510 | 49.625 | -24.375 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/15 - 19:01 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2412MHz |

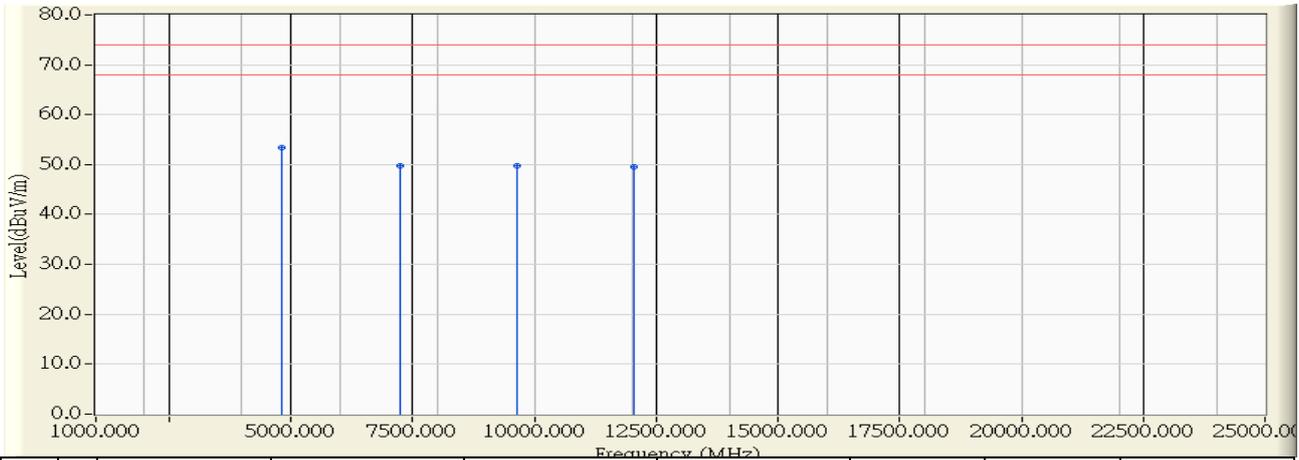


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 4824.000 | -0.617 | 51.650 | 51.033 | -2.967 | 54.000 | AVERAGE |
| 2 | | 7236.000 | 5.445 | 41.780 | 47.225 | -6.775 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/15 - 19:06 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2412MHz |

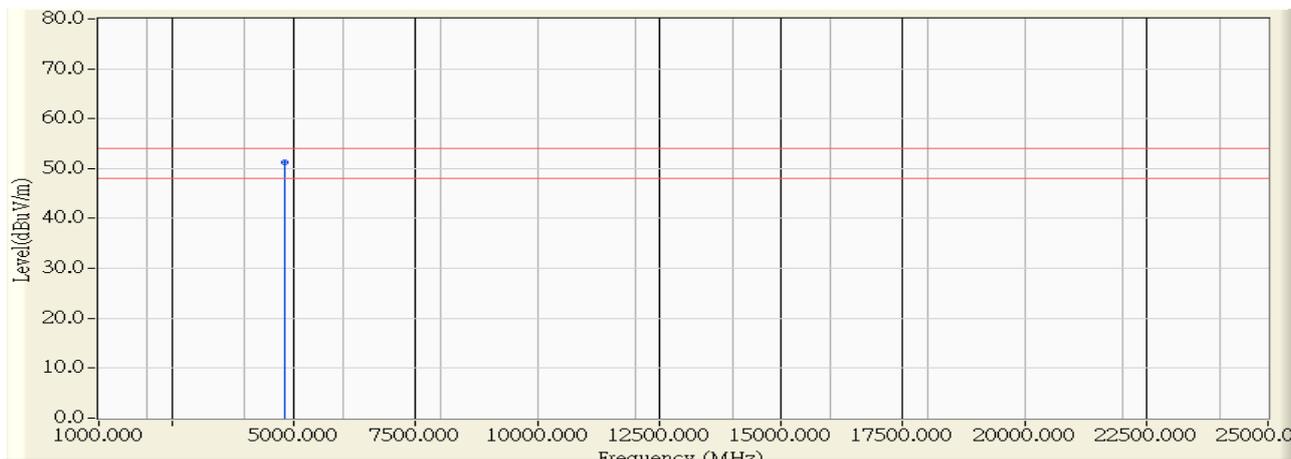


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 4824.000 | -0.617 | 54.090 | 53.473 | -20.527 | 74.000 | PEAK |
| 2 | | 7235.000 | 5.443 | 44.250 | 49.693 | -24.307 | 74.000 | PEAK |
| 3 | | 9648.000 | 9.226 | 40.600 | 49.826 | -24.174 | 74.000 | PEAK |
| 4 | | 12060.000 | 11.115 | 38.360 | 49.475 | -24.525 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/15 - 19:07 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2412MHz |

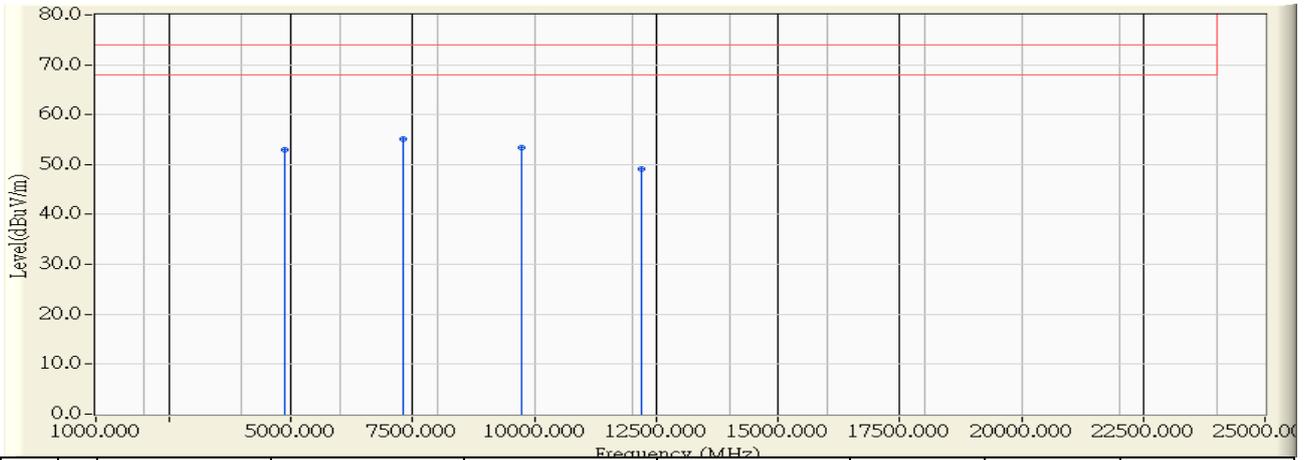


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 4824.000 | -0.617 | 51.900 | 51.283 | -2.717 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/10/16 - 13:12 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2437MHz |

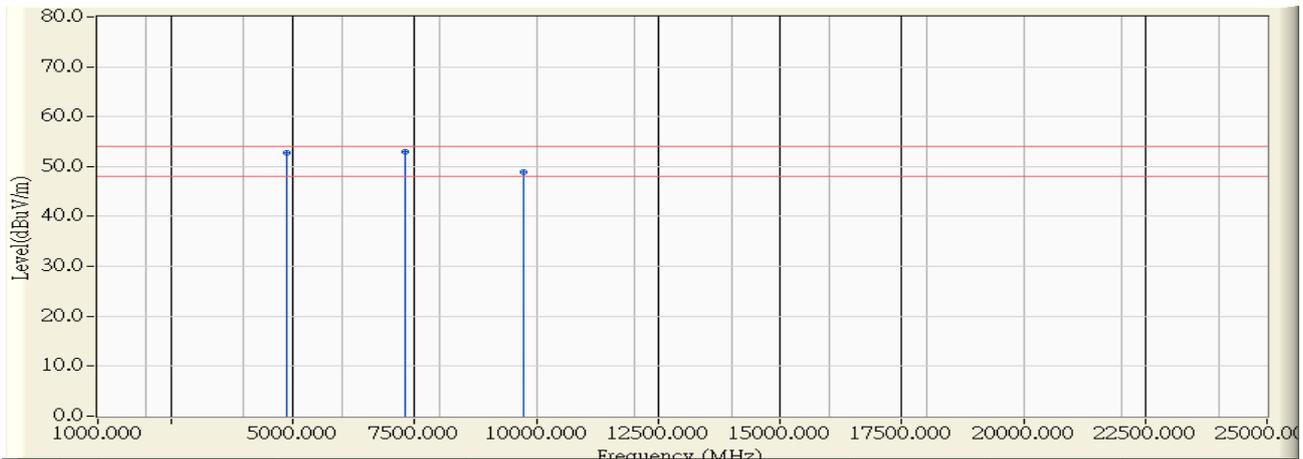


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4874.000 | -0.495 | 53.520 | 53.025 | -20.975 | 74.000 | PEAK |
| 2 | * 7311.000 | 5.608 | 49.430 | 55.037 | -18.963 | 74.000 | PEAK |
| 3 | 9748.000 | 9.873 | 43.500 | 53.373 | -20.627 | 74.000 | PEAK |
| 4 | 12185.000 | 11.058 | 38.110 | 49.168 | -24.832 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/10/16 - 13:21 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2437MHz |

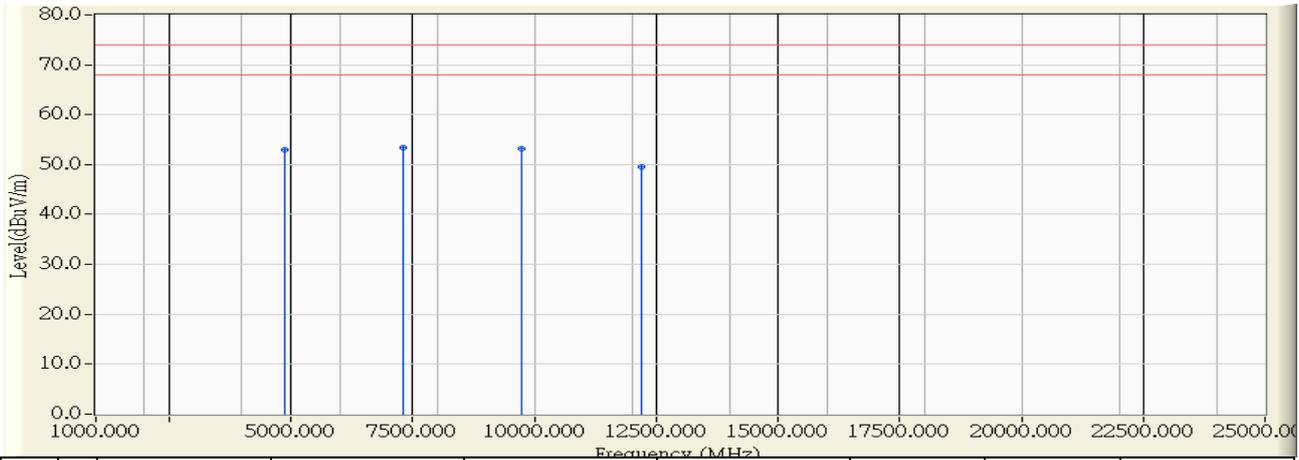


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4874.000 | -0.495 | 53.270 | 52.775 | -1.225 | 54.000 | AVERAGE |
| 2 | * 7311.010 | 5.608 | 47.360 | 52.967 | -1.033 | 54.000 | AVERAGE |
| 3 | 9748.010 | 9.873 | 38.950 | 48.823 | -5.177 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/10/16 - 13:28 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2437MHz |

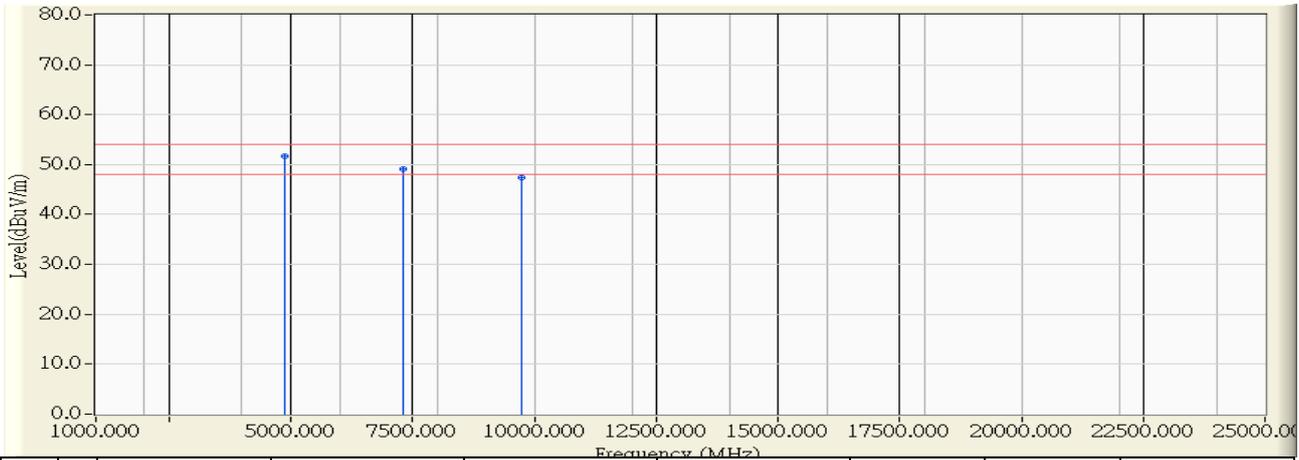


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4874.000 | -0.495 | 53.510 | 53.015 | -20.985 | 74.000 | PEAK |
| 2 | * 7311.000 | 5.608 | 47.760 | 53.367 | -20.633 | 74.000 | PEAK |
| 3 | 9748.000 | 9.873 | 43.400 | 53.273 | -20.727 | 74.000 | PEAK |
| 4 | 12185.000 | 11.058 | 38.490 | 49.548 | -24.452 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/10/16 - 13:36 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2437MHz |

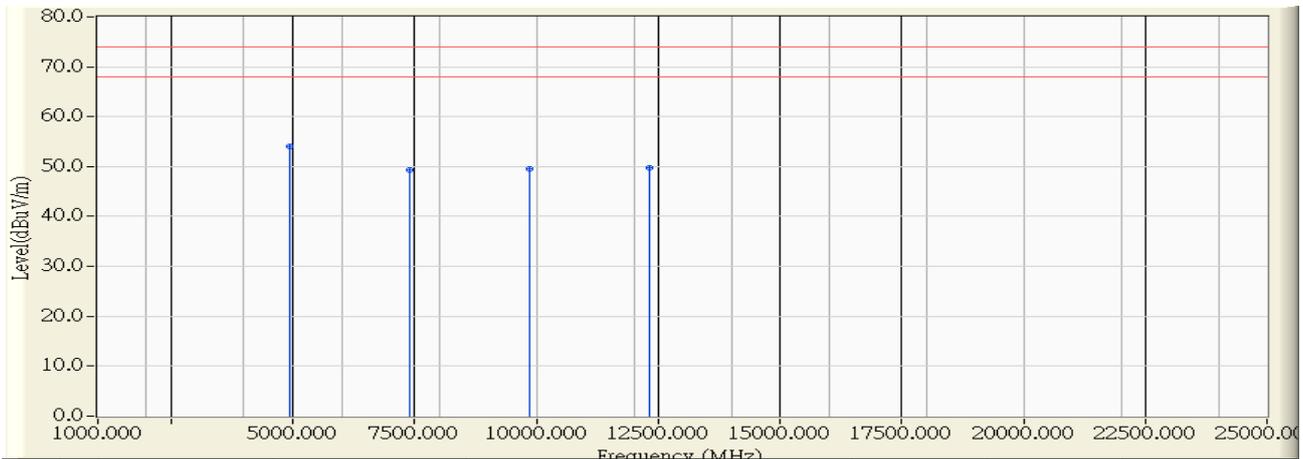


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 4874.000 | -0.495 | 52.130 | 51.635 | -2.365 | 54.000 | AVERAGE |
| 2 | | 7311.000 | 5.608 | 43.610 | 49.217 | -4.783 | 54.000 | AVERAGE |
| 3 | | 9748.000 | 9.873 | 37.480 | 47.353 | -6.647 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/10/16 - 14:45 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2462MHz |

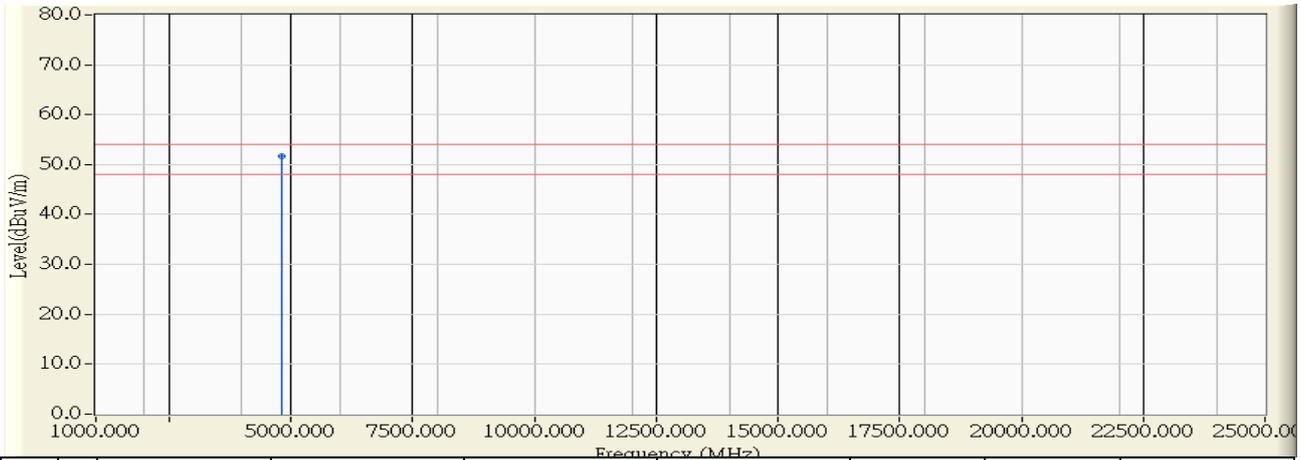


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 4924.930 | -0.370 | 54.470 | 54.100 | -19.900 | 74.000 | PEAK |
| 2 | | 7386.000 | 5.770 | 43.460 | 49.230 | -24.770 | 74.000 | PEAK |
| 3 | | 9848.000 | 10.521 | 39.100 | 49.621 | -24.379 | 74.000 | PEAK |
| 4 | | 12310.000 | 11.001 | 38.720 | 49.721 | -24.279 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/10/16 - 14:50 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2462MHz |

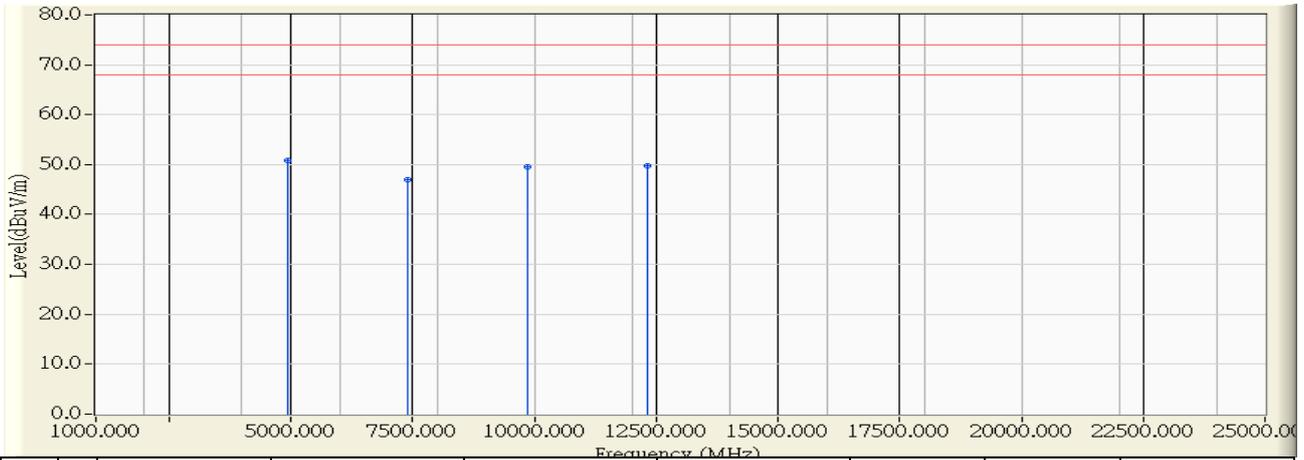


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 4824.000 | -0.617 | 52.320 | 51.703 | -2.297 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/10/16 - 14:57 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2462MHz |

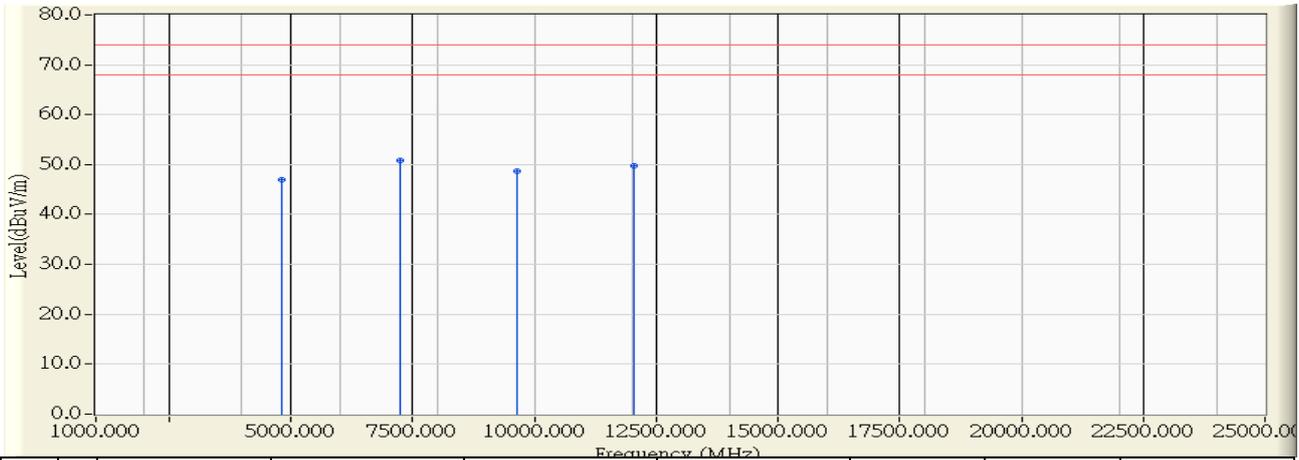


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 4924.000 | -0.373 | 51.180 | 50.807 | -23.193 | 74.000 | PEAK |
| 2 | | 7386.000 | 5.770 | 41.270 | 47.040 | -26.960 | 74.000 | PEAK |
| 3 | | 9848.000 | 10.521 | 39.010 | 49.531 | -24.469 | 74.000 | PEAK |
| 4 | | 12310.000 | 11.001 | 38.800 | 49.801 | -24.199 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/07 - 10:57 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2412MHz |

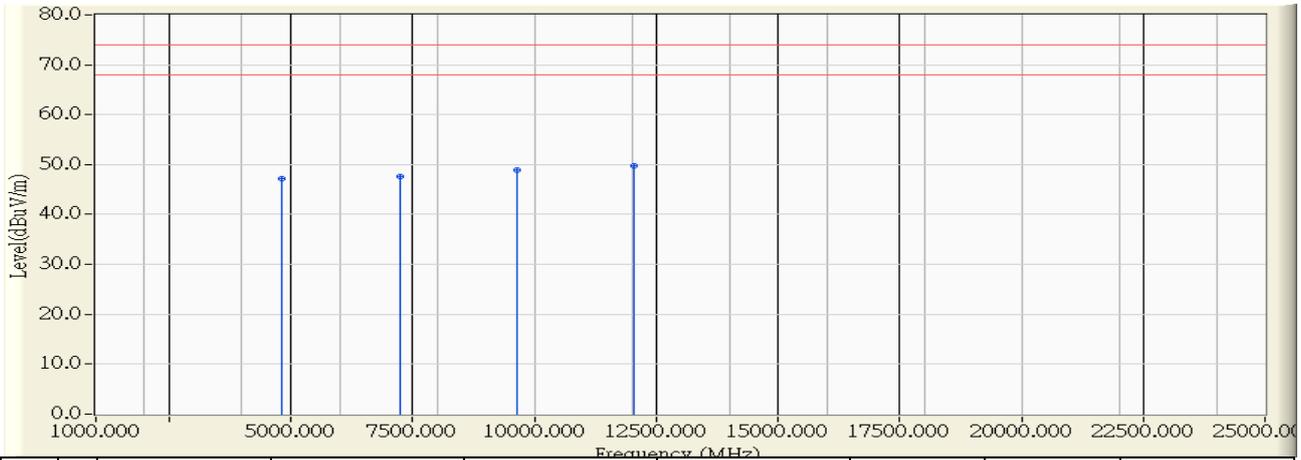


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4824.000 | -0.617 | 47.640 | 47.023 | -26.977 | 74.000 | PEAK |
| 2 | * 7236.000 | 5.445 | 45.480 | 50.925 | -23.075 | 74.000 | PEAK |
| 3 | 9648.000 | 9.226 | 39.430 | 48.656 | -25.344 | 74.000 | PEAK |
| 4 | 12060.000 | 11.115 | 38.650 | 49.765 | -24.235 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/07 - 11:17 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2412MHz |

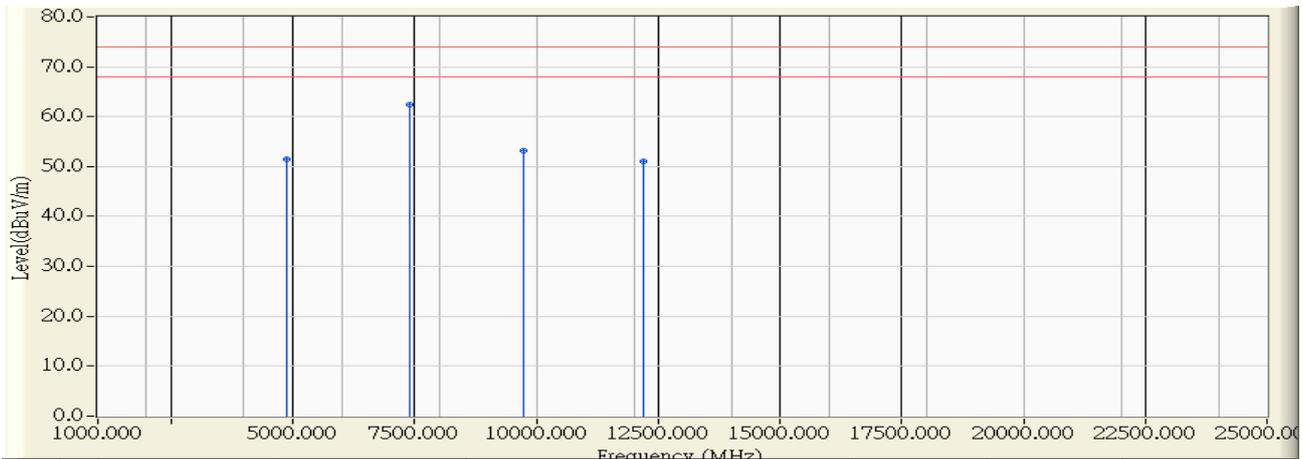


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4824.000 | -0.617 | 47.900 | 47.283 | -26.717 | 74.000 | PEAK |
| 2 | 7236.000 | 5.445 | 42.190 | 47.635 | -26.365 | 74.000 | PEAK |
| 3 | 9648.000 | 9.226 | 39.780 | 49.006 | -24.994 | 74.000 | PEAK |
| 4 | * 12060.000 | 11.115 | 38.680 | 49.795 | -24.205 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/07 - 11:21 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2437MHz |

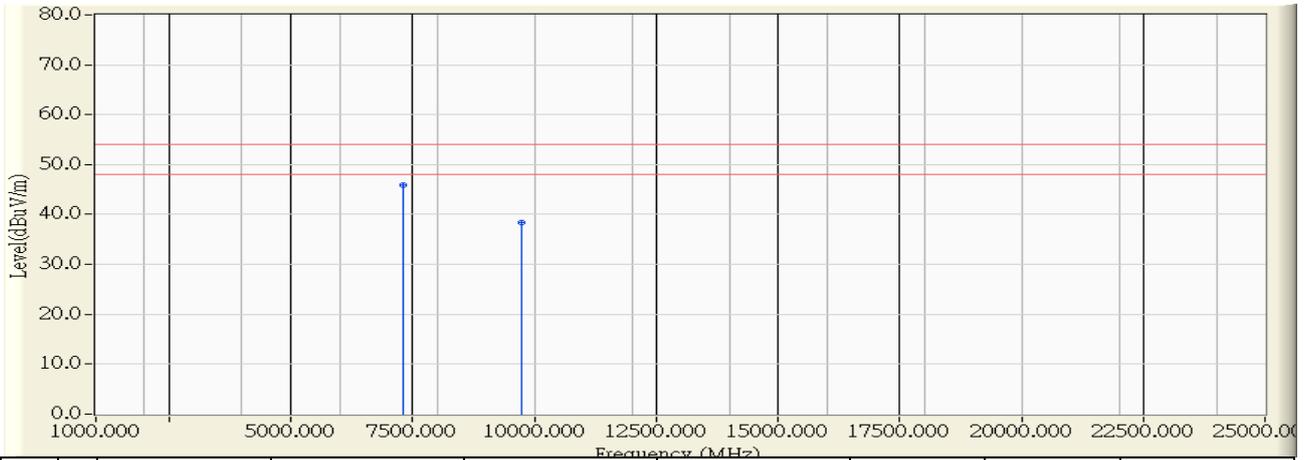


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4874.000 | -0.495 | 52.020 | 51.525 | -22.475 | 74.000 | PEAK |
| 2 | * 7311.000 | 5.770 | 56.690 | 62.460 | -11.540 | 74.000 | PEAK |
| 3 | 9748.000 | 9.873 | 43.390 | 53.263 | -20.737 | 74.000 | PEAK |
| 4 | 12185.000 | 11.058 | 39.900 | 50.958 | -23.042 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/07 - 11:26 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2437MHz |

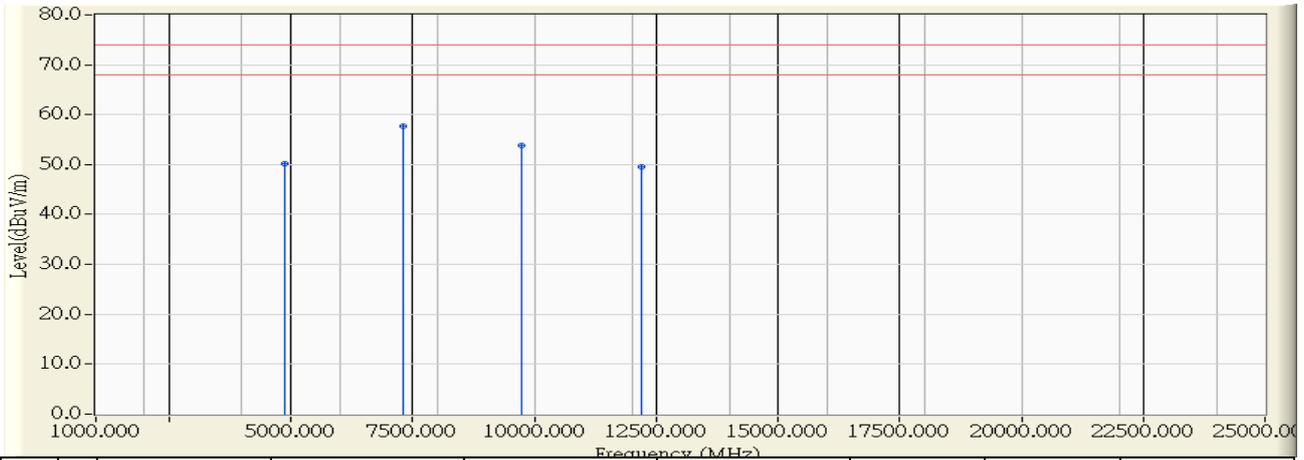


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 7311.000 | 5.608 | 40.250 | 45.857 | -8.143 | 54.000 | AVERAGE |
| 2 | | 9748.000 | 9.873 | 28.580 | 38.453 | -15.547 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/07 - 11:33 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2437MHz |

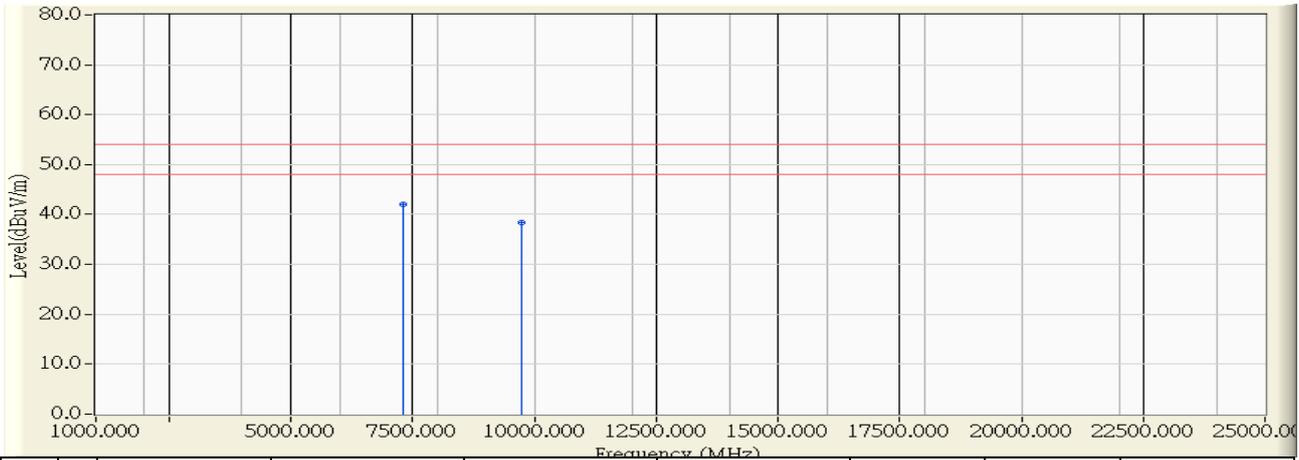


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4874.000 | -0.495 | 50.730 | 50.235 | -23.765 | 74.000 | PEAK |
| 2 | * 7311.000 | 5.608 | 52.140 | 57.747 | -16.253 | 74.000 | PEAK |
| 3 | 9748.000 | 9.873 | 44.030 | 53.903 | -20.097 | 74.000 | PEAK |
| 4 | 12185.000 | 11.058 | 38.560 | 49.618 | -24.382 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/07 - 11:35 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2437MHz |

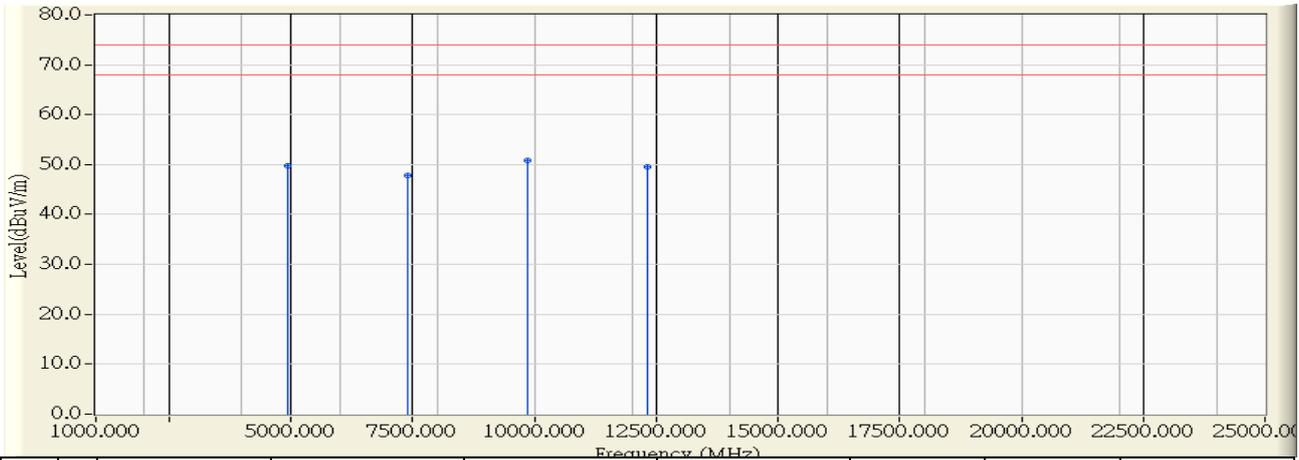


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 7311.000 | 5.608 | 36.490 | 42.097 | -11.903 | 54.000 | AVERAGE |
| 2 | | 9748.000 | 9.873 | 28.580 | 38.453 | -15.547 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/07 - 13:50 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2462MHz |

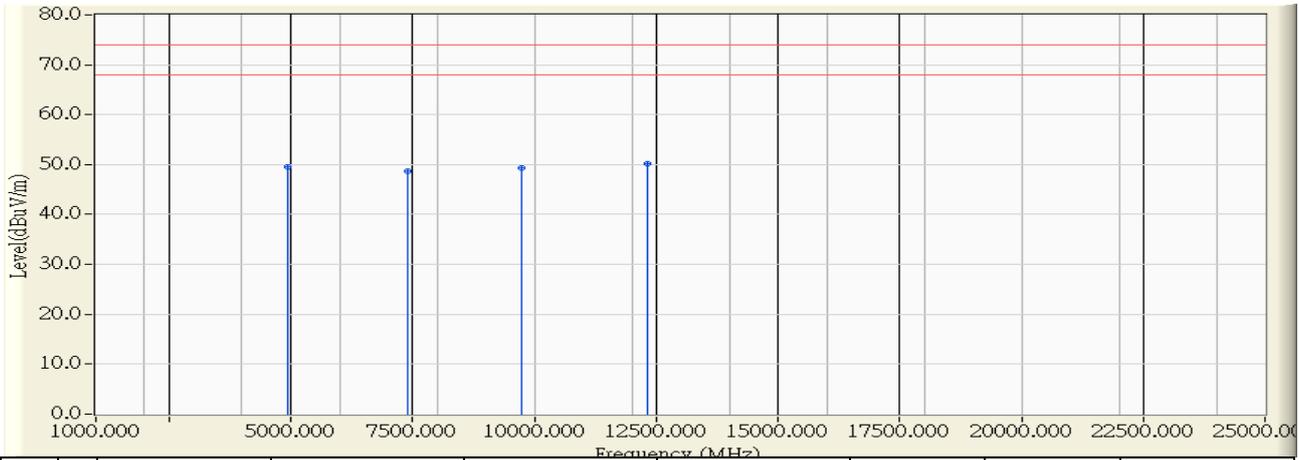


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4924.000 | -0.373 | 50.070 | 49.697 | -24.303 | 74.000 | PEAK |
| 2 | 7386.000 | 5.770 | 42.150 | 47.920 | -26.080 | 74.000 | PEAK |
| 3 | * 9848.000 | 10.521 | 40.320 | 50.841 | -23.159 | 74.000 | PEAK |
| 4 | 12310.000 | 11.001 | 38.490 | 49.491 | -24.509 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/07 - 14:01 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2462MHz |

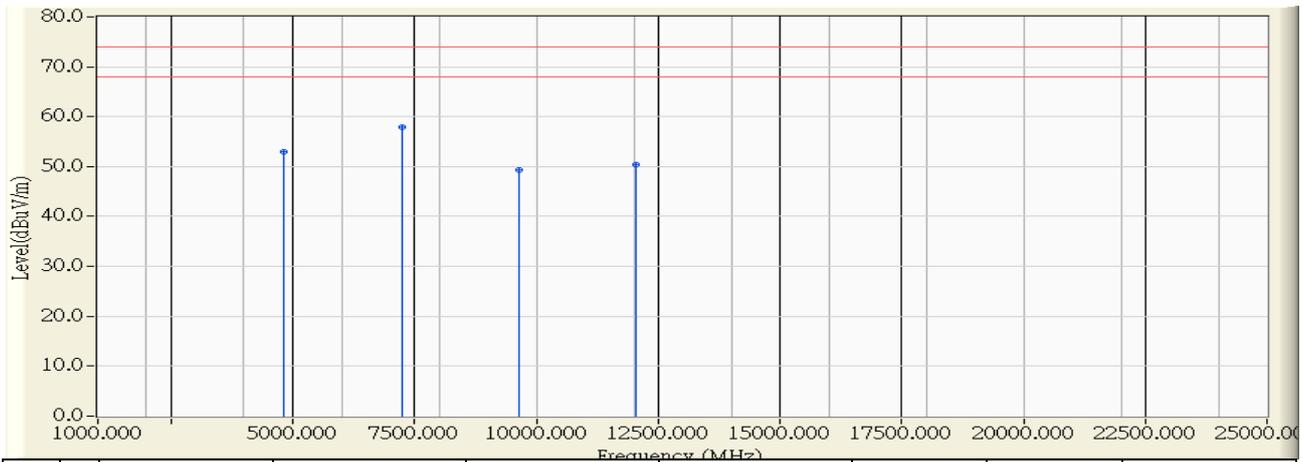


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4924.000 | -0.373 | 49.900 | 49.527 | -24.473 | 74.000 | PEAK |
| 2 | 7386.000 | 5.770 | 42.820 | 48.590 | -25.410 | 74.000 | PEAK |
| 3 | 9748.000 | 9.873 | 39.470 | 49.343 | -24.657 | 74.000 | PEAK |
| 4 | * 12310.000 | 11.001 | 39.190 | 50.191 | -23.809 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|--------------------------------|
| Site : CB1 | Time : 2013/09/07 - 14:04 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) _2412MHz |

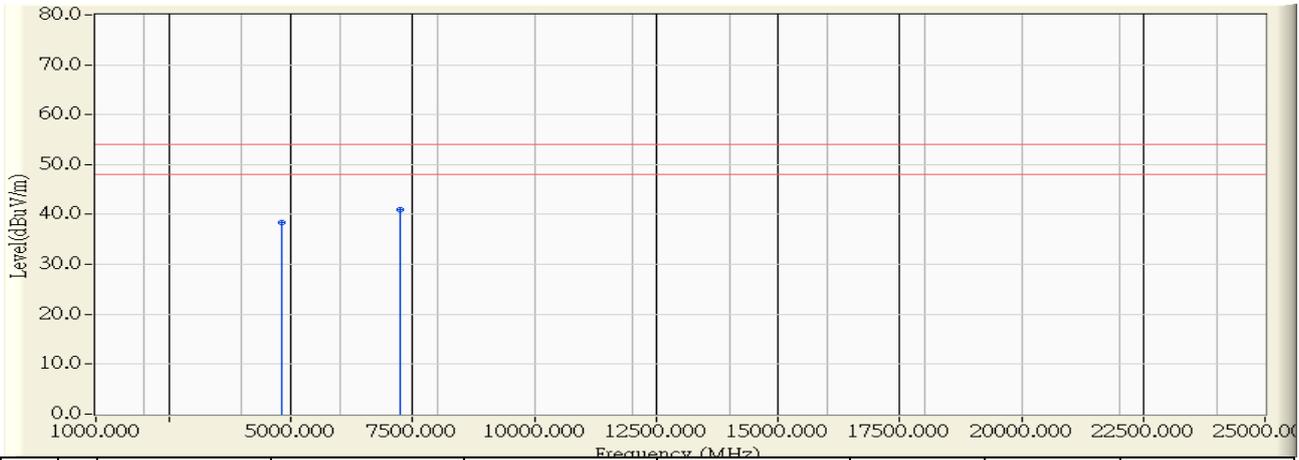


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4824.000 | -0.617 | 53.670 | 53.053 | -20.947 | 74.000 | PEAK |
| 2 | * 7236.000 | 5.445 | 52.470 | 57.915 | -16.085 | 74.000 | PEAK |
| 3 | 9648.000 | 9.226 | 40.180 | 49.406 | -24.594 | 74.000 | PEAK |
| 4 | 12060.000 | 11.115 | 39.350 | 50.465 | -23.535 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|--------------------------------|
| Site : CB1 | Time : 2013/09/07 - 14:05 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) _2412MHz |

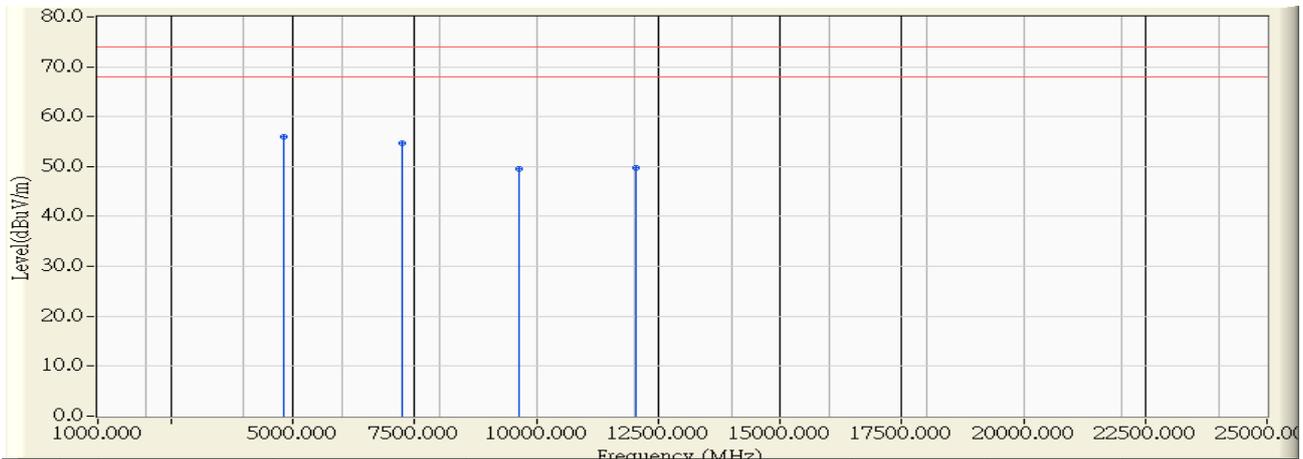


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4824.000 | -0.617 | 39.080 | 38.463 | -15.537 | 54.000 | AVERAGE |
| 2 | * 7236.000 | 5.445 | 35.450 | 40.895 | -13.105 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|--------------------------------|
| Site : CB1 | Time : 2013/09/07 - 14:25 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) _2412MHz |

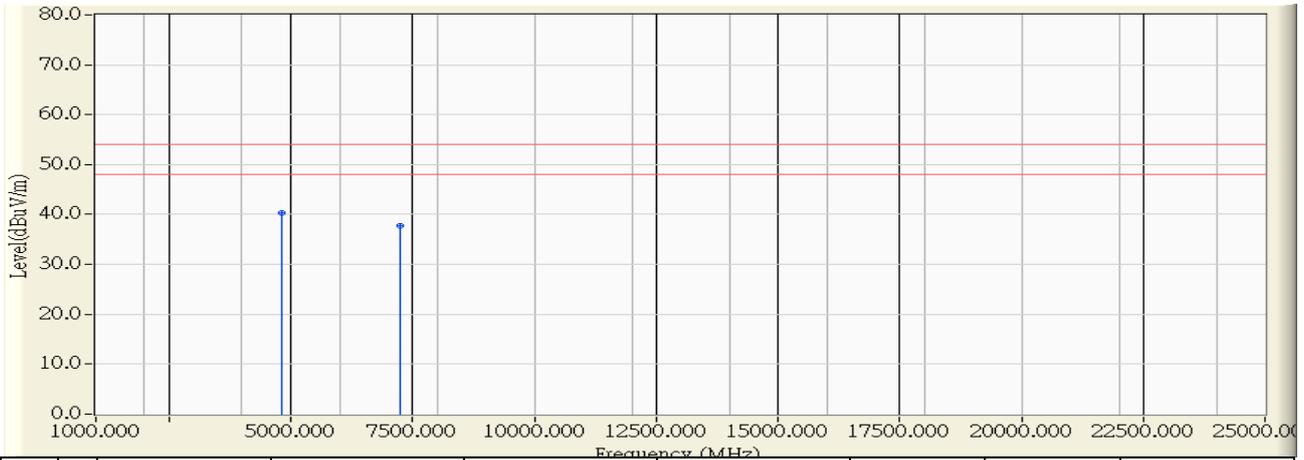


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4824.000 | -0.617 | 56.620 | 56.003 | -17.997 | 74.000 | PEAK |
| 2 | * 7236.000 | 5.445 | 49.350 | 54.795 | -19.205 | 74.000 | PEAK |
| 3 | 9648.000 | 9.226 | 40.270 | 49.496 | -24.504 | 74.000 | PEAK |
| 4 | 12060.000 | 11.115 | 38.710 | 49.825 | -24.175 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|--------------------------------|
| Site : CB1 | Time : 2013/09/07 - 14:27 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) _2412MHz |

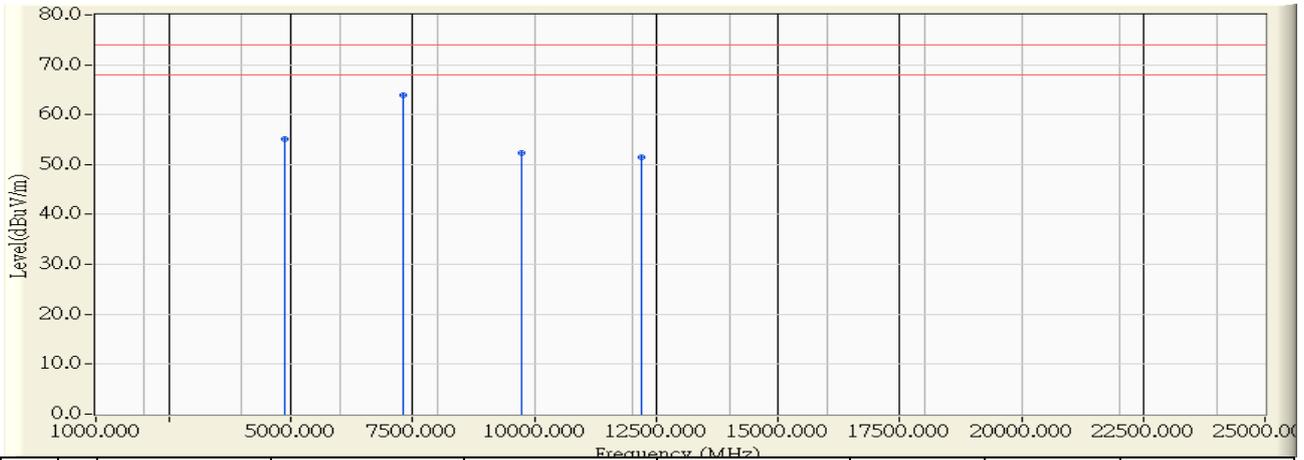


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 4824.000 | -0.617 | 40.980 | 40.363 | -13.637 | 54.000 | AVERAGE |
| 2 | | 7236.000 | 5.445 | 32.210 | 37.655 | -16.345 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|--------------------------------|
| Site : CB1 | Time : 2013/09/07 - 14:35 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) _2437MHz |

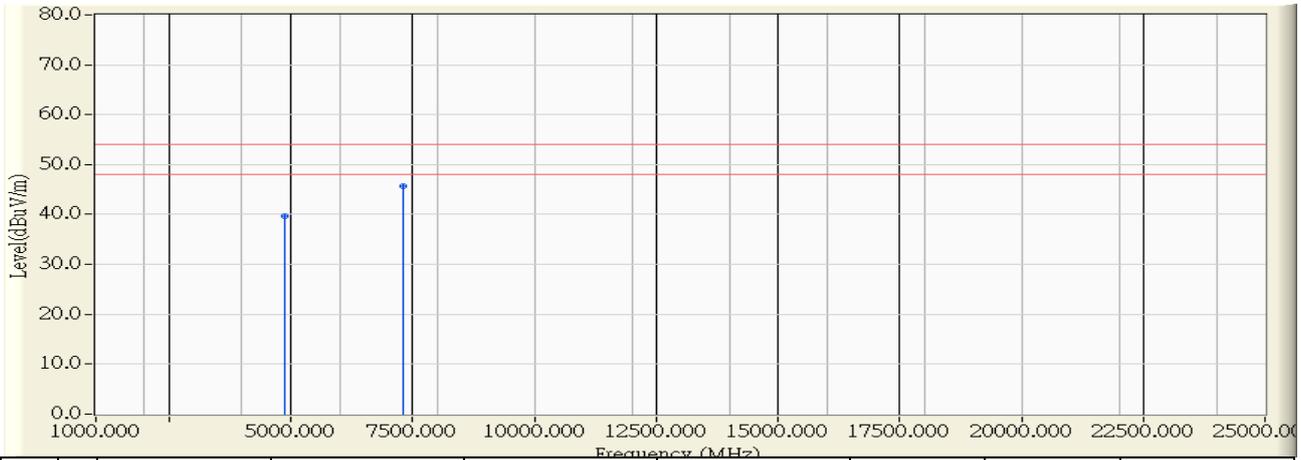


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4874.000 | -0.495 | 55.650 | 55.155 | -18.845 | 74.000 | PEAK |
| 2 | * 7311.000 | 5.608 | 58.230 | 63.837 | -10.163 | 74.000 | PEAK |
| 3 | 9748.000 | 9.873 | 42.520 | 52.393 | -21.607 | 74.000 | PEAK |
| 4 | 12185.000 | 11.058 | 40.480 | 51.538 | -22.462 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|--------------------------------|
| Site : CB1 | Time : 2013/09/07 - 14:36 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) _2437MHz |

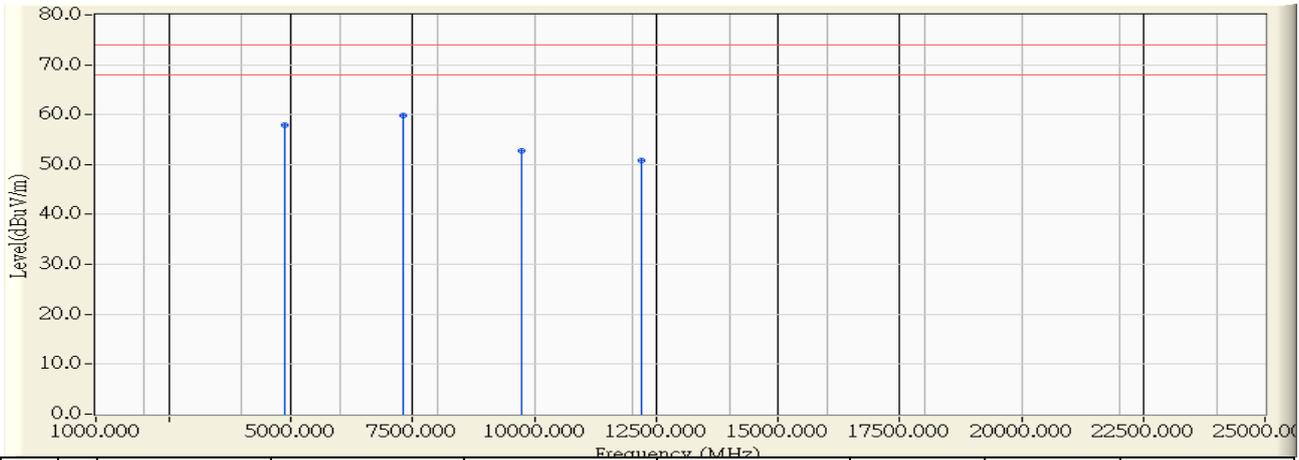


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4874.000 | -0.495 | 40.220 | 39.725 | -14.275 | 54.000 | AVERAGE |
| 2 | * 7311.000 | 5.608 | 40.010 | 45.617 | -8.383 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|--------------------------------|
| Site : CB1 | Time : 2013/09/07 - 14:45 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) _2437MHz |

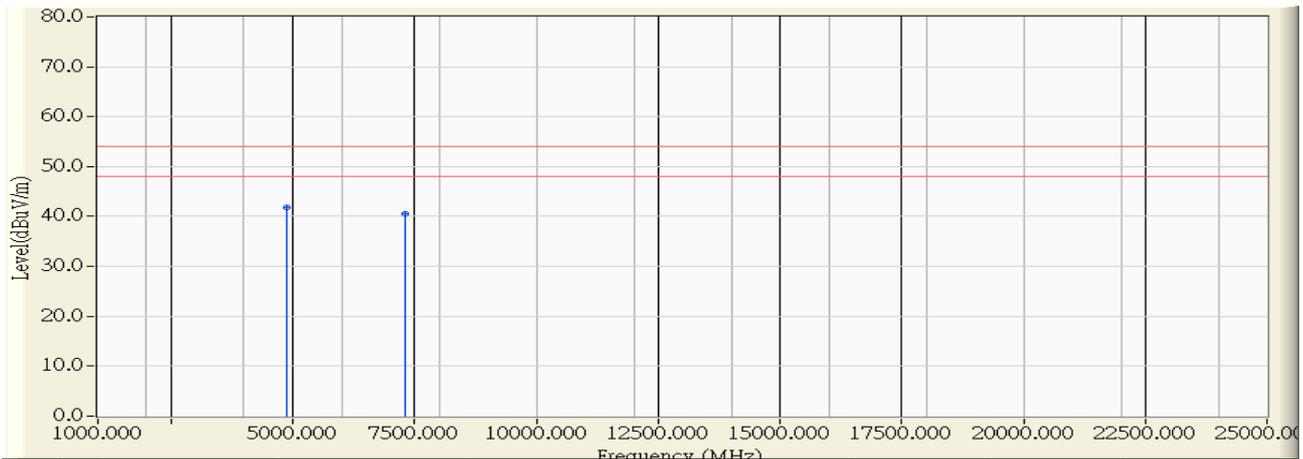


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4874.000 | -0.495 | 58.460 | 57.965 | -16.035 | 74.000 | PEAK |
| 2 | * 7311.000 | 5.608 | 54.200 | 59.807 | -14.193 | 74.000 | PEAK |
| 3 | 9748.000 | 9.873 | 42.820 | 52.693 | -21.307 | 74.000 | PEAK |
| 4 | 12185.000 | 11.058 | 39.740 | 50.798 | -23.202 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|--------------------------------|
| Site : CB1 | Time : 2013/09/07 - 14:54 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) _2437MHz |

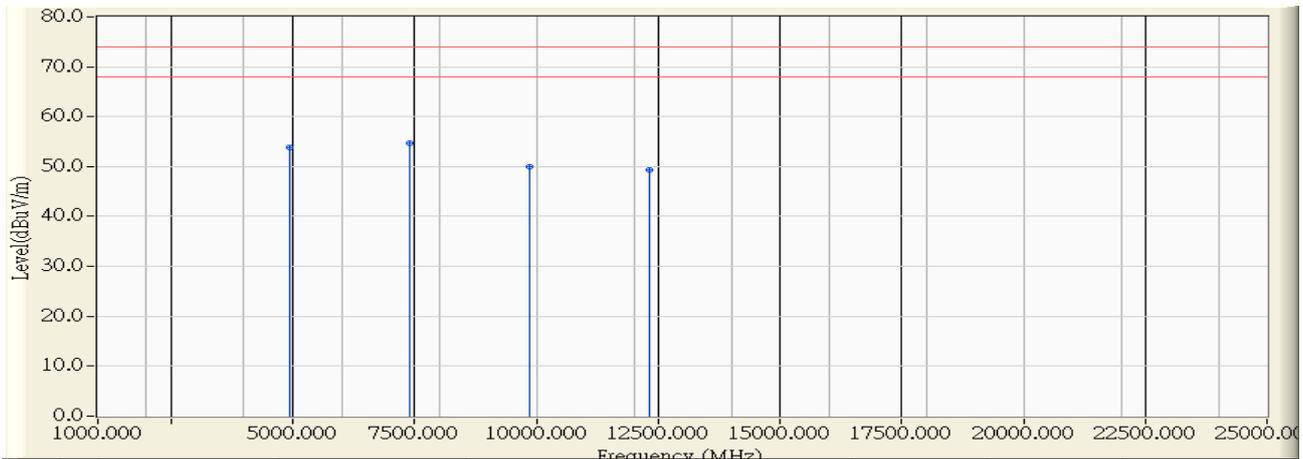


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 4874.000 | -0.495 | 42.390 | 41.895 | -12.105 | 54.000 | AVERAGE |
| 2 | | 7311.000 | 5.608 | 34.860 | 40.467 | -13.533 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/07 - 15:01 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) 2462MHz |

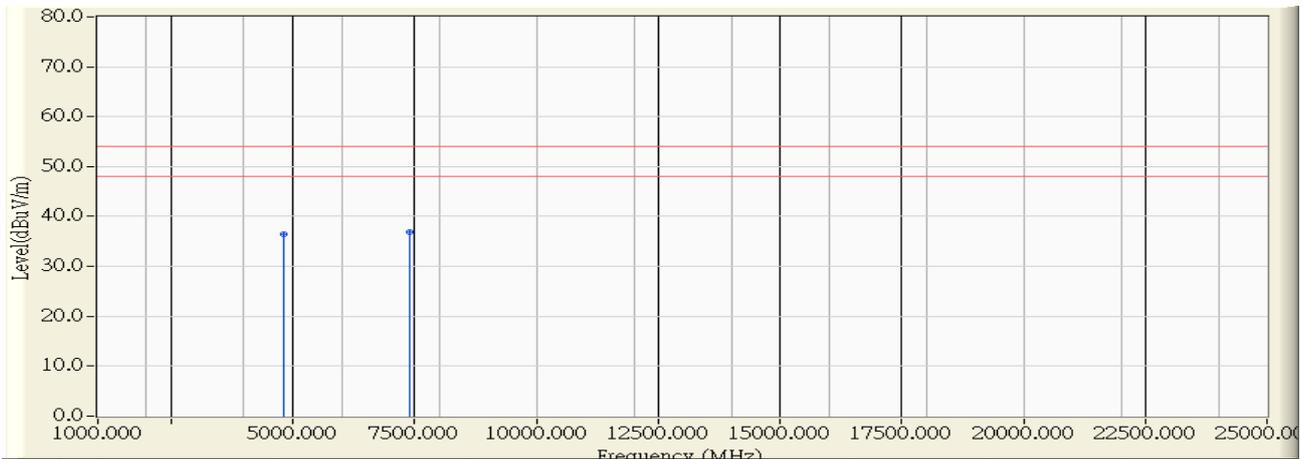


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4924.000 | -0.373 | 54.200 | 53.827 | -20.173 | 74.000 | PEAK |
| 2 | * 7386.000 | 5.770 | 48.870 | 54.640 | -19.360 | 74.000 | PEAK |
| 3 | 9848.000 | 10.521 | 39.530 | 50.051 | -23.949 | 74.000 | PEAK |
| 4 | 12310.000 | 11.001 | 38.280 | 49.281 | -24.719 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/07 - 15:01 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) 2462MHz |

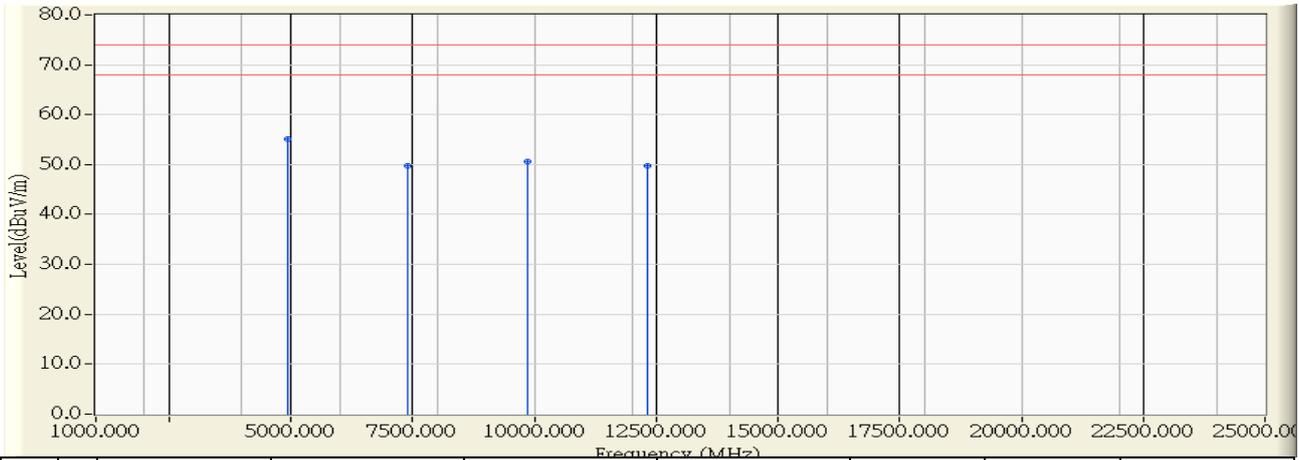


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4924.000 | -0.617 | 37.150 | 36.533 | -17.467 | 54.000 | AVERAGE |
| 2 | * 7386.000 | 5.770 | 31.090 | 36.860 | -17.140 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|--------------------------------|
| Site : CB1 | Time : 2013/09/07 - 15:11 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) _2462MHz |

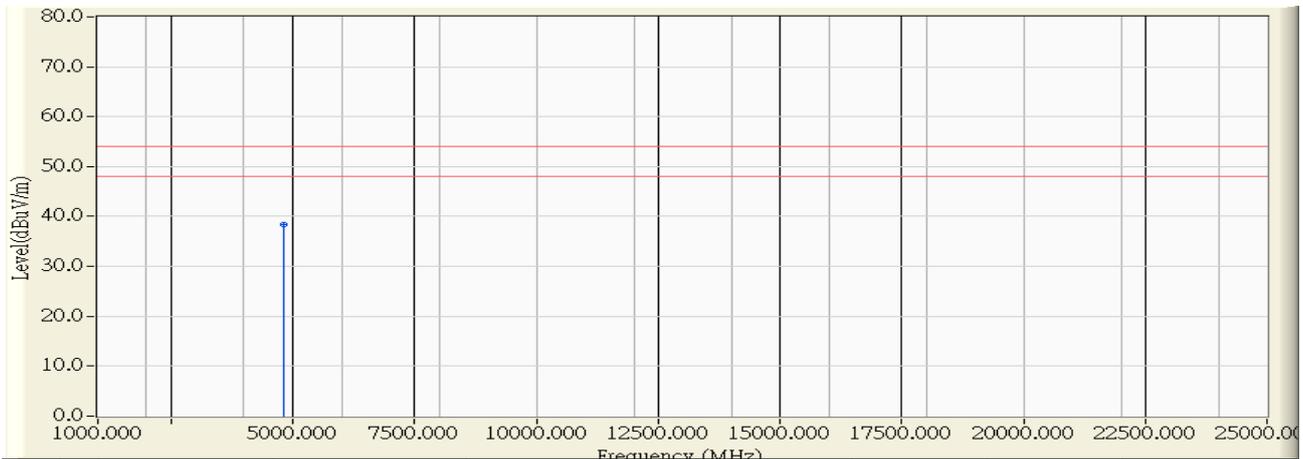


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 4924.000 | -0.373 | 55.520 | 55.147 | -18.853 | 74.000 | PEAK |
| 2 | | 7386.000 | 5.770 | 43.940 | 49.710 | -24.290 | 74.000 | PEAK |
| 3 | | 9848.000 | 10.521 | 40.180 | 50.701 | -23.299 | 74.000 | PEAK |
| 4 | | 12310.000 | 11.001 | 38.670 | 49.671 | -24.329 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/07 - 15:15 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) 2462MHz |

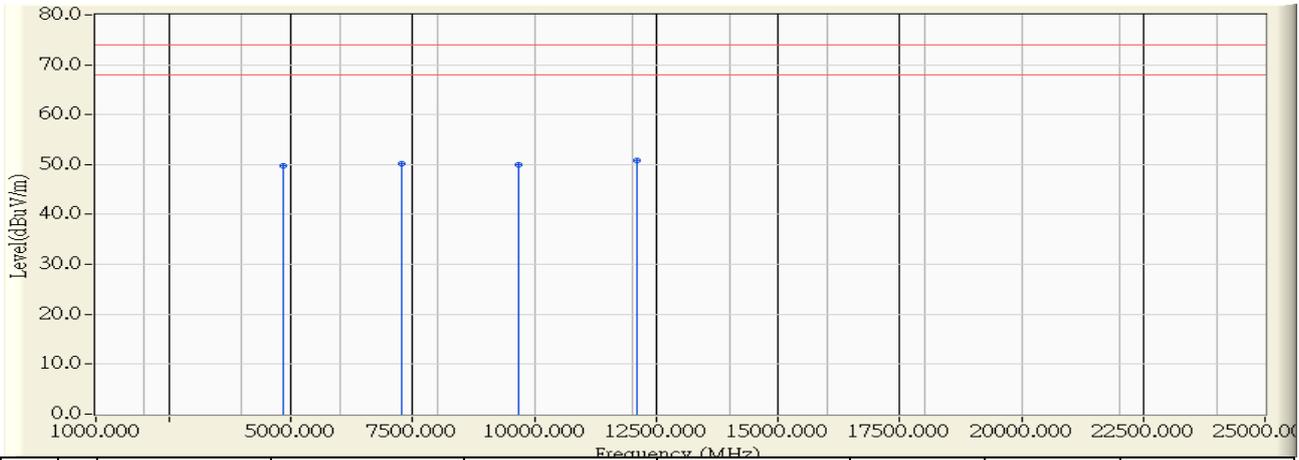


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 4824.000 | -0.617 | 38.930 | 38.313 | -15.687 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/07 - 15:41 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz) 2422MHz |

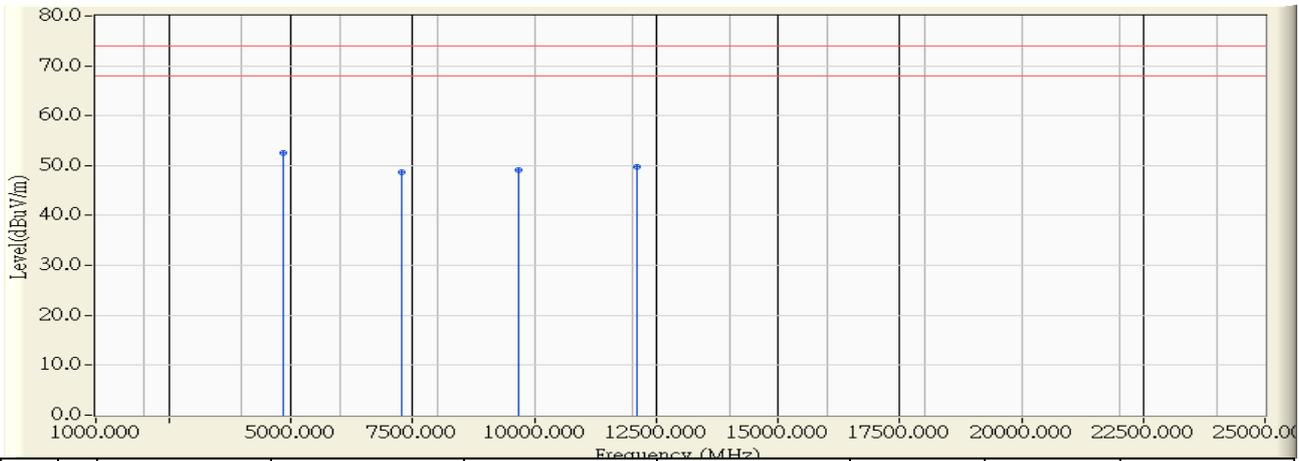


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4844.000 | -0.568 | 50.360 | 49.792 | -24.208 | 74.000 | PEAK |
| 2 | 7266.000 | 5.510 | 44.620 | 50.130 | -23.870 | 74.000 | PEAK |
| 3 | 9688.000 | 9.485 | 40.420 | 49.905 | -24.095 | 74.000 | PEAK |
| 4 | * 12110.000 | 11.093 | 39.660 | 50.753 | -23.247 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/07 - 15:52 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz)_2422MHz |

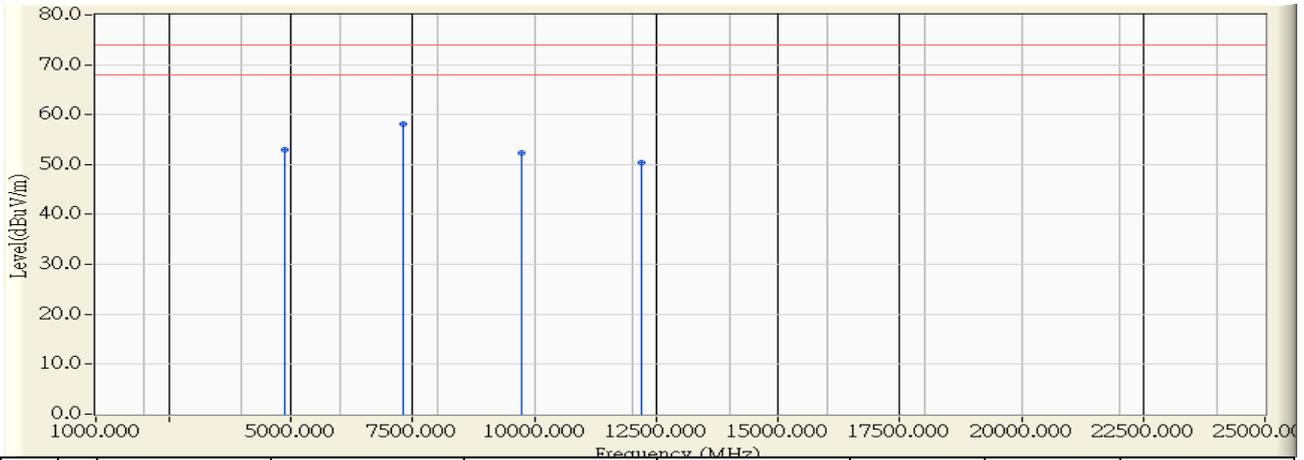


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 4844.000 | -0.568 | 53.200 | 52.632 | -21.368 | 74.000 | PEAK |
| 2 | | 7266.000 | 5.510 | 43.180 | 48.690 | -25.310 | 74.000 | PEAK |
| 3 | | 9688.000 | 9.485 | 39.730 | 49.215 | -24.785 | 74.000 | PEAK |
| 4 | | 12110.000 | 11.093 | 38.600 | 49.693 | -24.307 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|--------------------------------|
| Site : CB1 | Time : 2013/09/07 - 15:56 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz) _2437MHz |

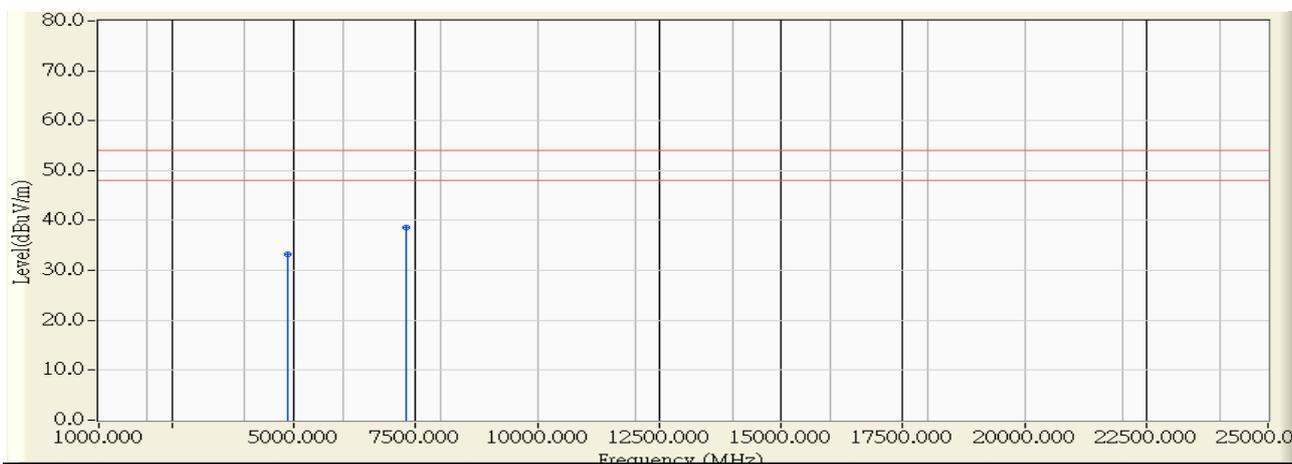


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4874.000 | -0.495 | 53.550 | 53.055 | -20.945 | 74.000 | PEAK |
| 2 | * 7311.000 | 5.608 | 52.560 | 58.167 | -15.833 | 74.000 | PEAK |
| 3 | 9748.000 | 9.873 | 42.360 | 52.233 | -21.767 | 74.000 | PEAK |
| 4 | 12185.000 | 11.058 | 39.270 | 50.328 | -23.672 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/07 - 15:56 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz)_2437MHz |

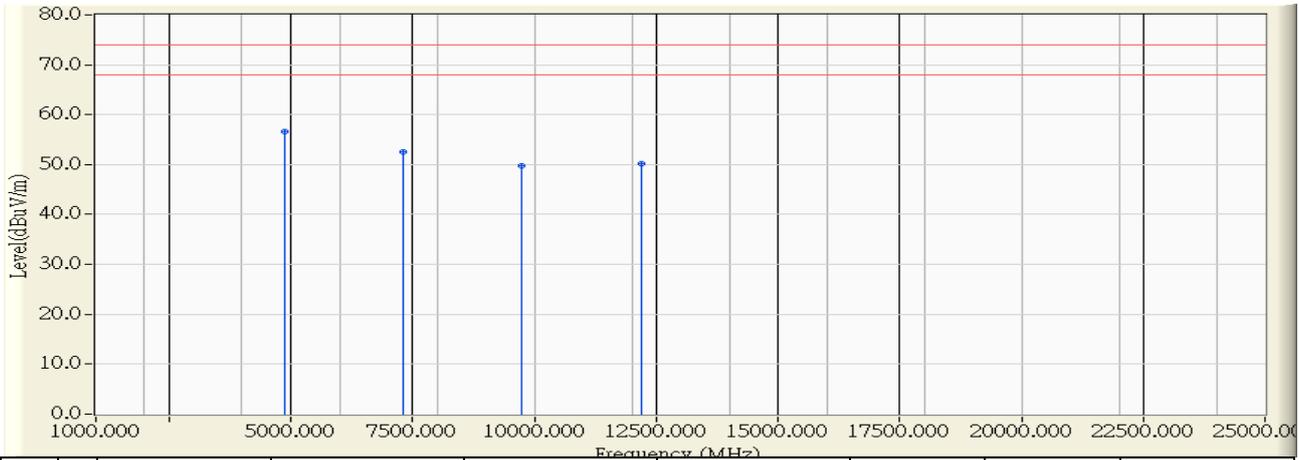


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4874.000 | -0.495 | 33.670 | 33.175 | -20.825 | 54.000 | AVERAGE |
| 2 | * 7311.000 | 5.608 | 33.080 | 38.687 | -15.313 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|--------------------------------|
| Site : CB1 | Time : 2013/09/07 - 16:05 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz) _2437MHz |

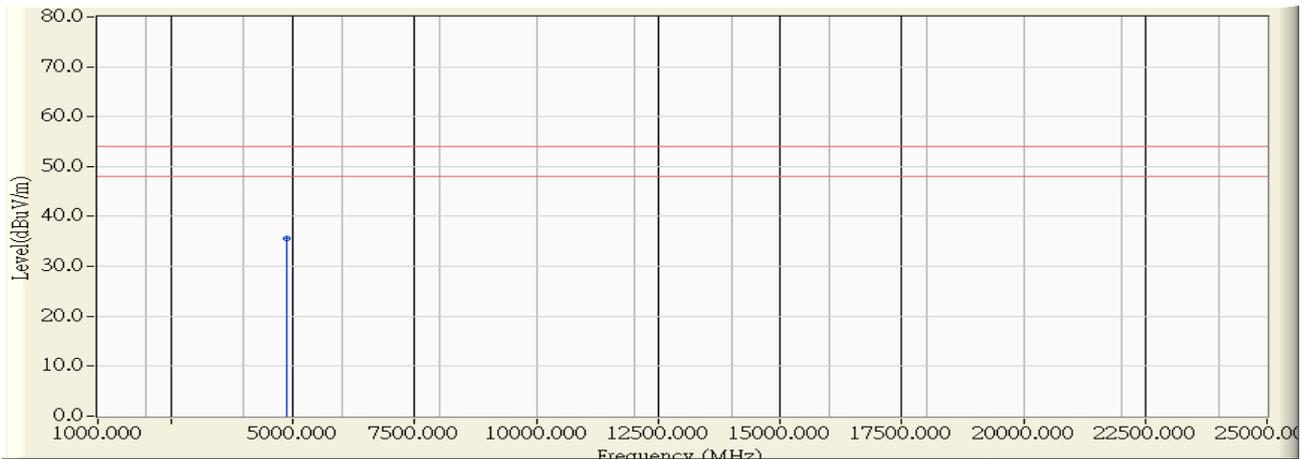


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 4874.000 | -0.495 | 57.130 | 56.635 | -17.365 | 74.000 | PEAK |
| 2 | | 7311.000 | 5.608 | 47.040 | 52.647 | -21.353 | 74.000 | PEAK |
| 3 | | 9748.000 | 9.873 | 39.880 | 49.753 | -24.247 | 74.000 | PEAK |
| 4 | | 12185.000 | 11.058 | 39.070 | 50.128 | -23.872 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/07 - 16:08 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz) 2437MHz |

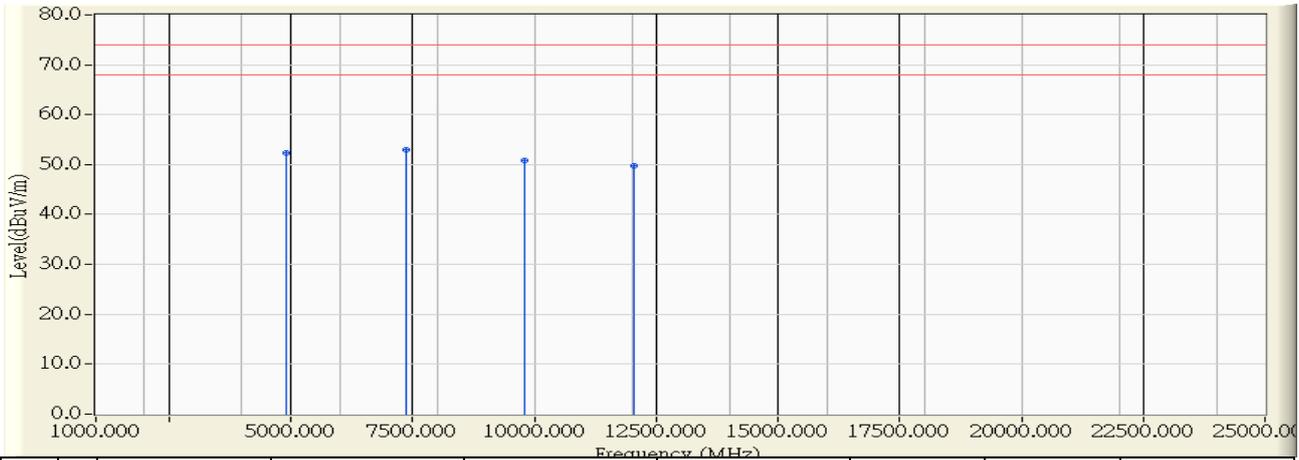


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 4874.000 | -0.495 | 36.020 | 35.525 | -18.475 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/07 - 16:11 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz) 2452MHz |

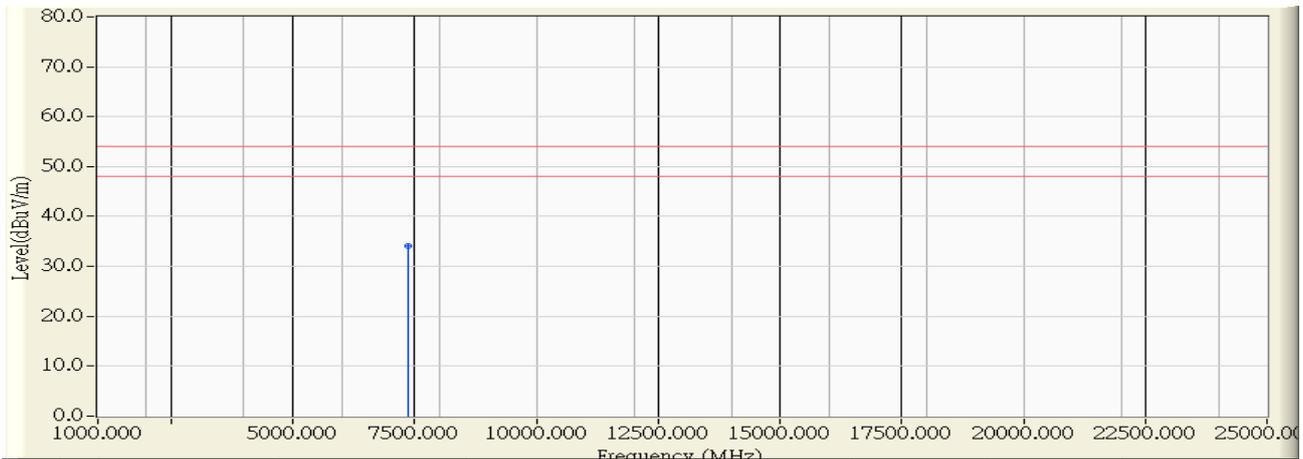


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 4904.000 | -0.421 | 52.800 | 52.379 | -21.621 | 74.000 | PEAK |
| 2 | * 7356.000 | 5.705 | 47.350 | 53.055 | -20.945 | 74.000 | PEAK |
| 3 | 9808.000 | 10.262 | 40.600 | 50.862 | -23.138 | 74.000 | PEAK |
| 4 | 12060.000 | 11.115 | 38.740 | 49.855 | -24.145 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/07 - 16:14 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz) 2452MHz |

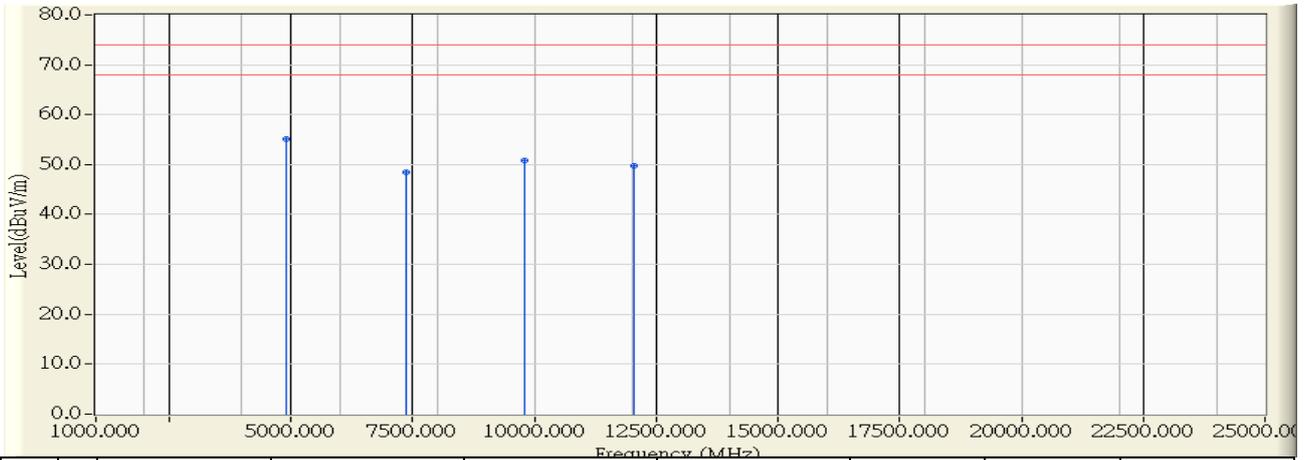


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 7356.000 | 5.705 | 28.490 | 34.195 | -19.805 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/07 - 16:19 |
| Limit : FCC_SpartC_15.247_H_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz) 2452MHz |

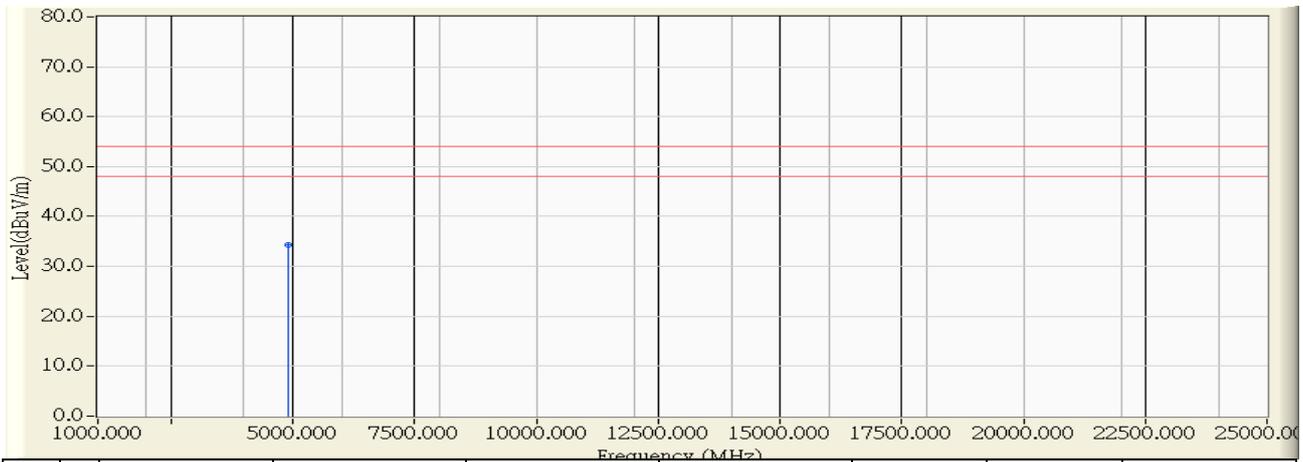


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 4904.000 | -0.421 | 55.620 | 55.199 | -18.801 | 74.000 | PEAK |
| 2 | | 7356.000 | 5.705 | 42.860 | 48.565 | -25.435 | 74.000 | PEAK |
| 3 | | 9808.000 | 10.262 | 40.500 | 50.762 | -23.238 | 74.000 | PEAK |
| 4 | | 12060.000 | 11.115 | 38.700 | 49.815 | -24.185 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/07 - 16:22 |
| Limit : FCC_SpartC_15.247_H_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz)_2452MHz |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 4904.000 | -0.421 | 34.810 | 34.389 | -19.611 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

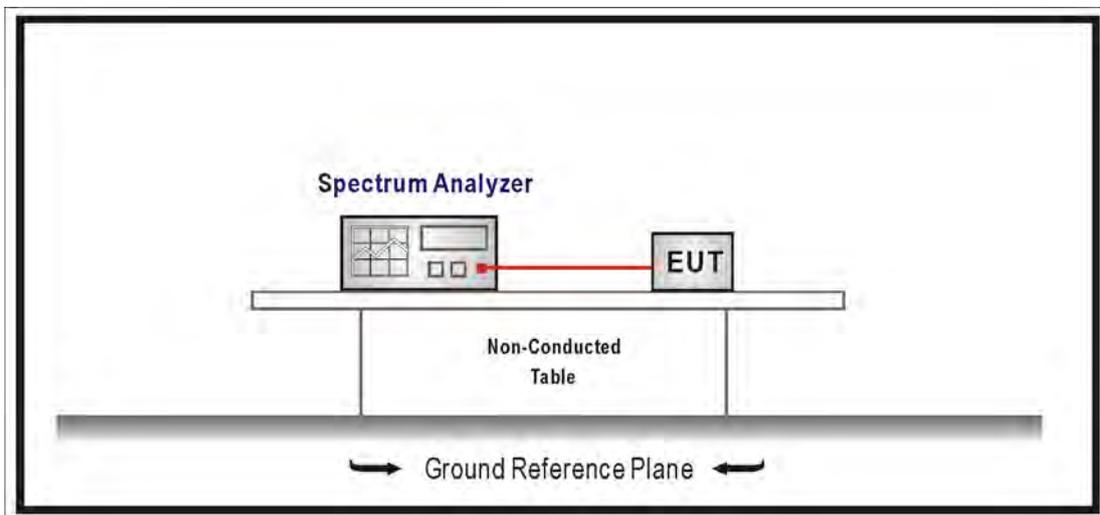
RF antenna conducted test / SR7

| Instrument | Manufacturer | Model No. | Serial No | Next Cal. Date |
|-------------------|--------------|------------|------------|----------------|
| Spectrum Analyzer | Agilent | N9010A-EXA | US47140172 | 2014/08/05 |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

5.2. Test Setup

RF Antenna Conducted Measurement:



5.3. Limits

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

5.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2012

5.6. Uncertainty

Conducted is defined as ± 1.27 dB

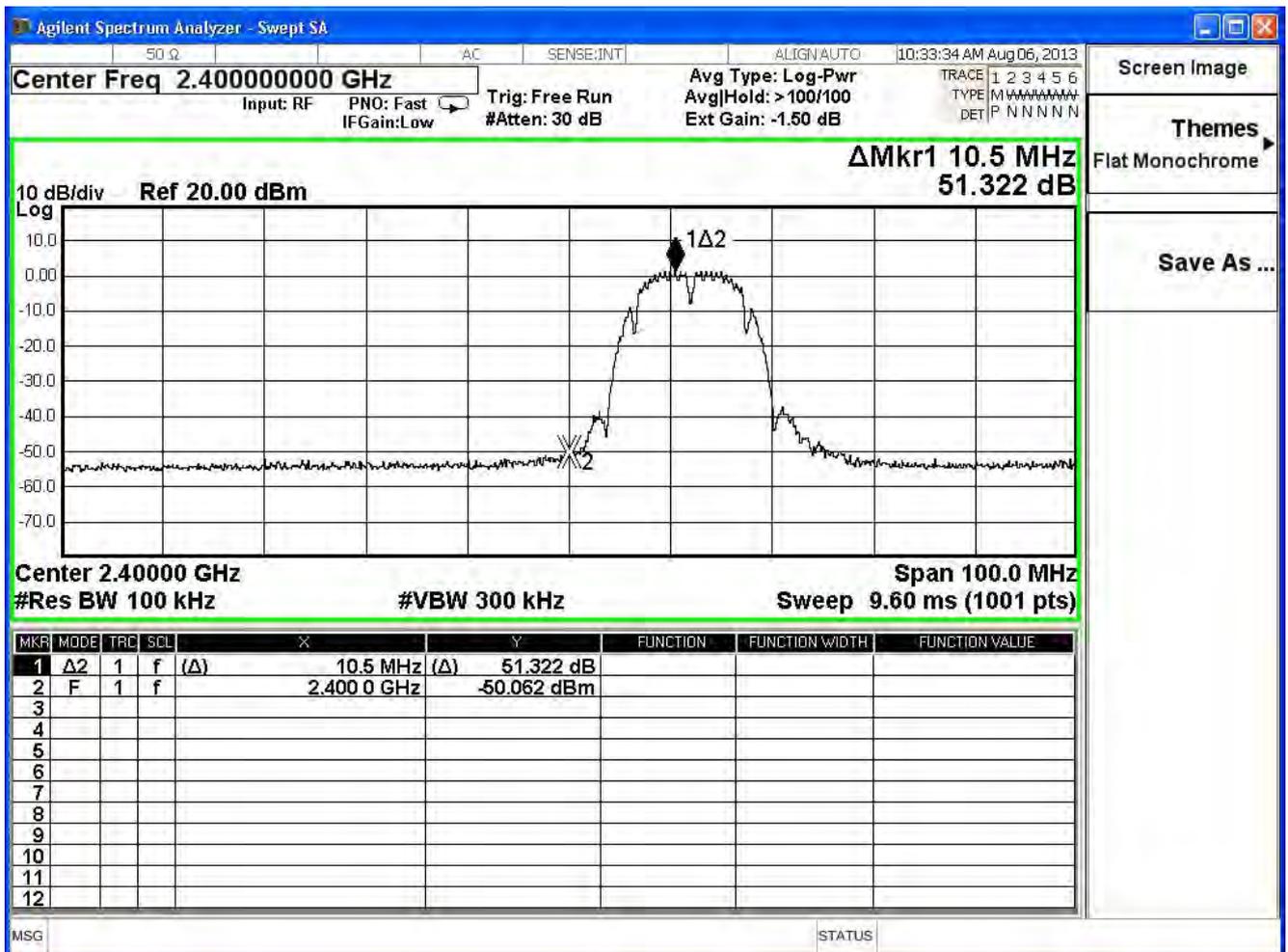
5.7. Test Result

| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | RF antenna conducted test | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/08/06 | Test Site | SR7 |

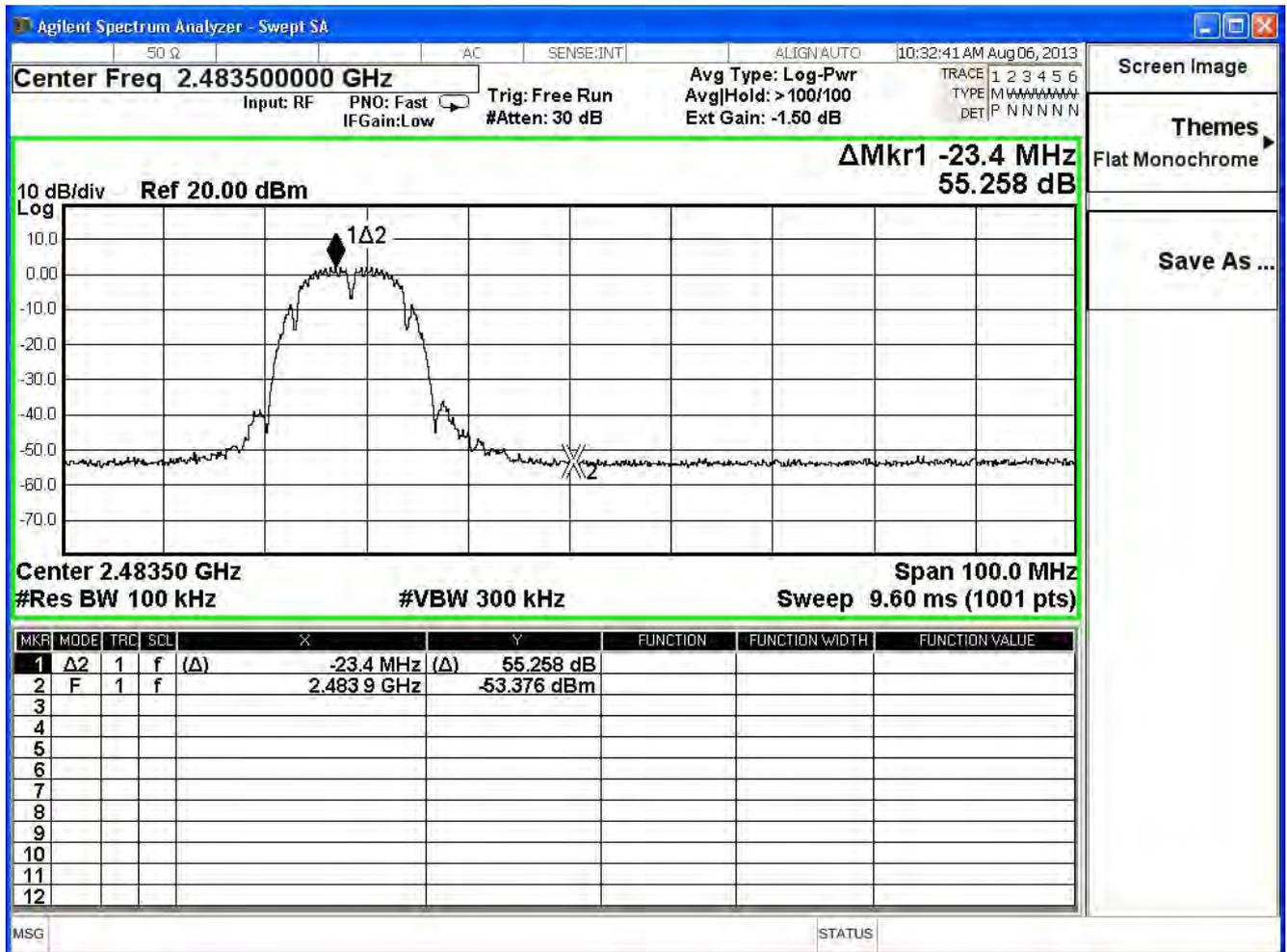
IEEE 802.11b, Duty Cycle: 1

| Channel No. | Frequency (MHz) | Measure Level (dBc) | Limit (dBc) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 1 | 2412 | 51.32 | ≥ 20 | Pass |
| 11 | 2462 | 55.25 | ≥ 20 | Pass |

Channel 01 (2412MHz)



Channel 11 (2462MHz)

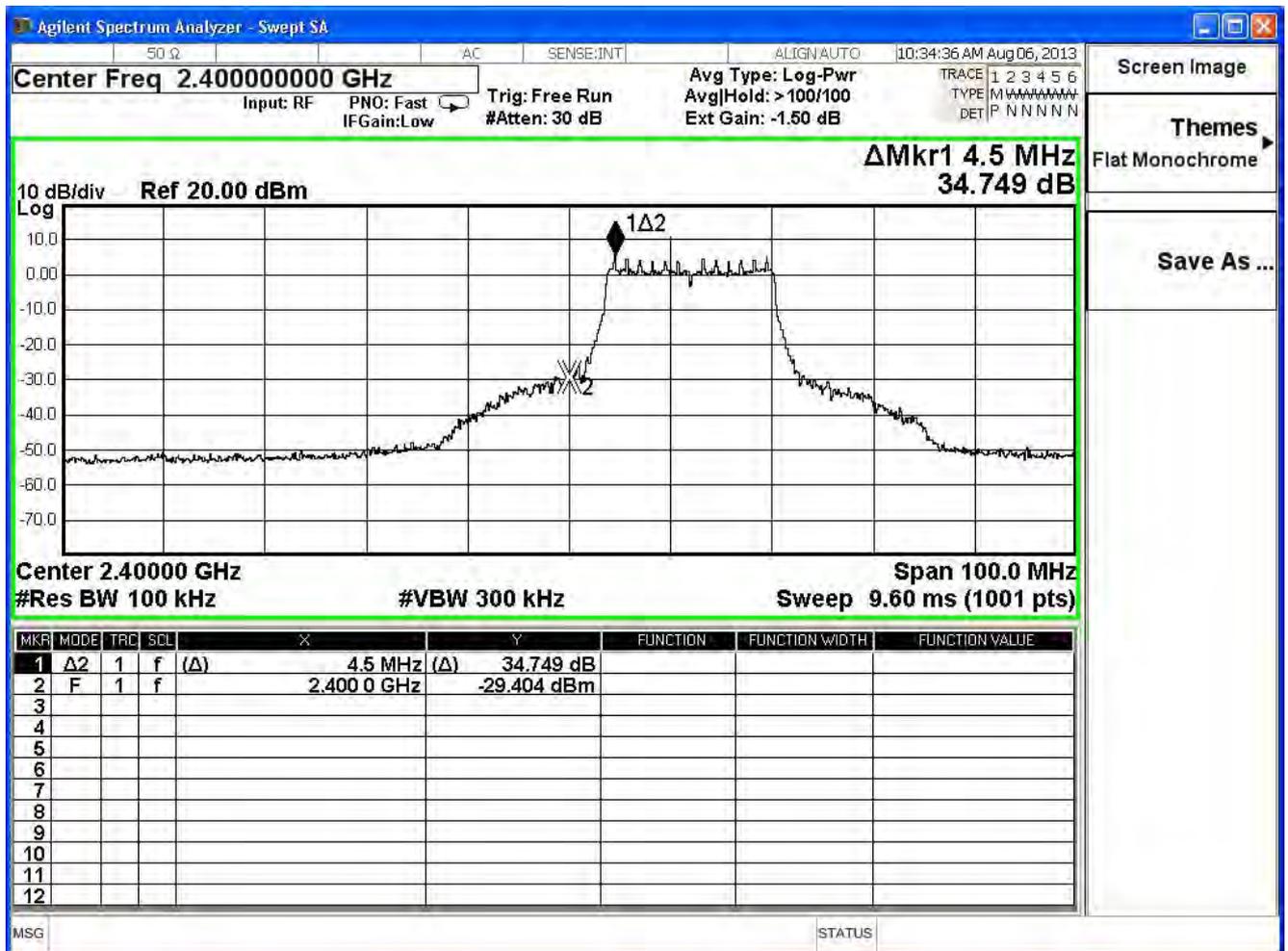


| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | RF antenna conducted test | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/08/06 | Test Site | SR7 |

IEEE 802.11g, Duty Cycle: 1

| Channel No. | Frequency (MHz) | Measure Level (dBc) | Limit (dBc) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 1 | 2412 | 34.74 | ≥ 20 | Pass |
| 11 | 2462 | 46.66 | ≥ 20 | Pass |

Channel 01 (2412MHz)

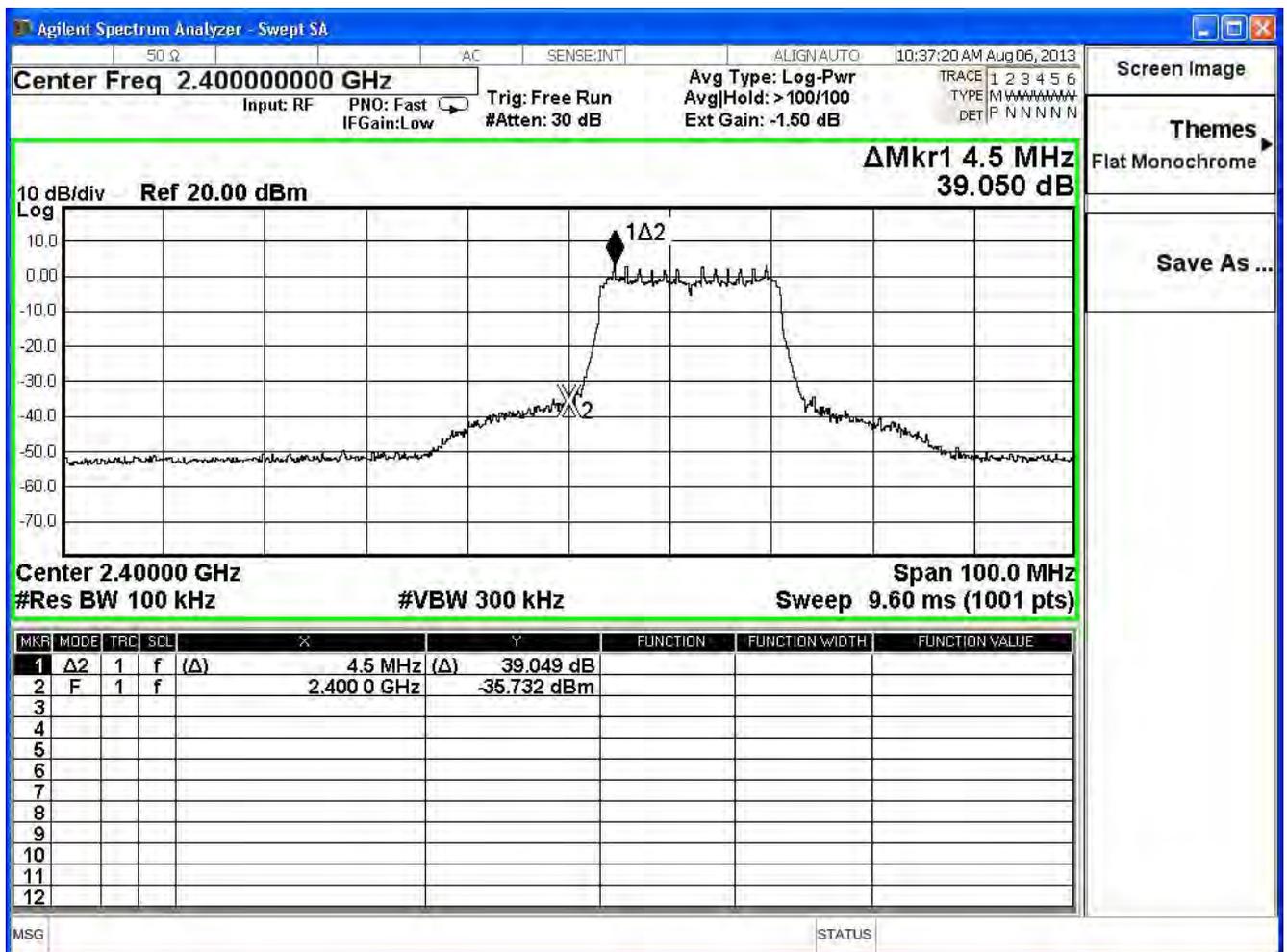


| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | RF antenna conducted test | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/08/06 | Test Site | SR7 |

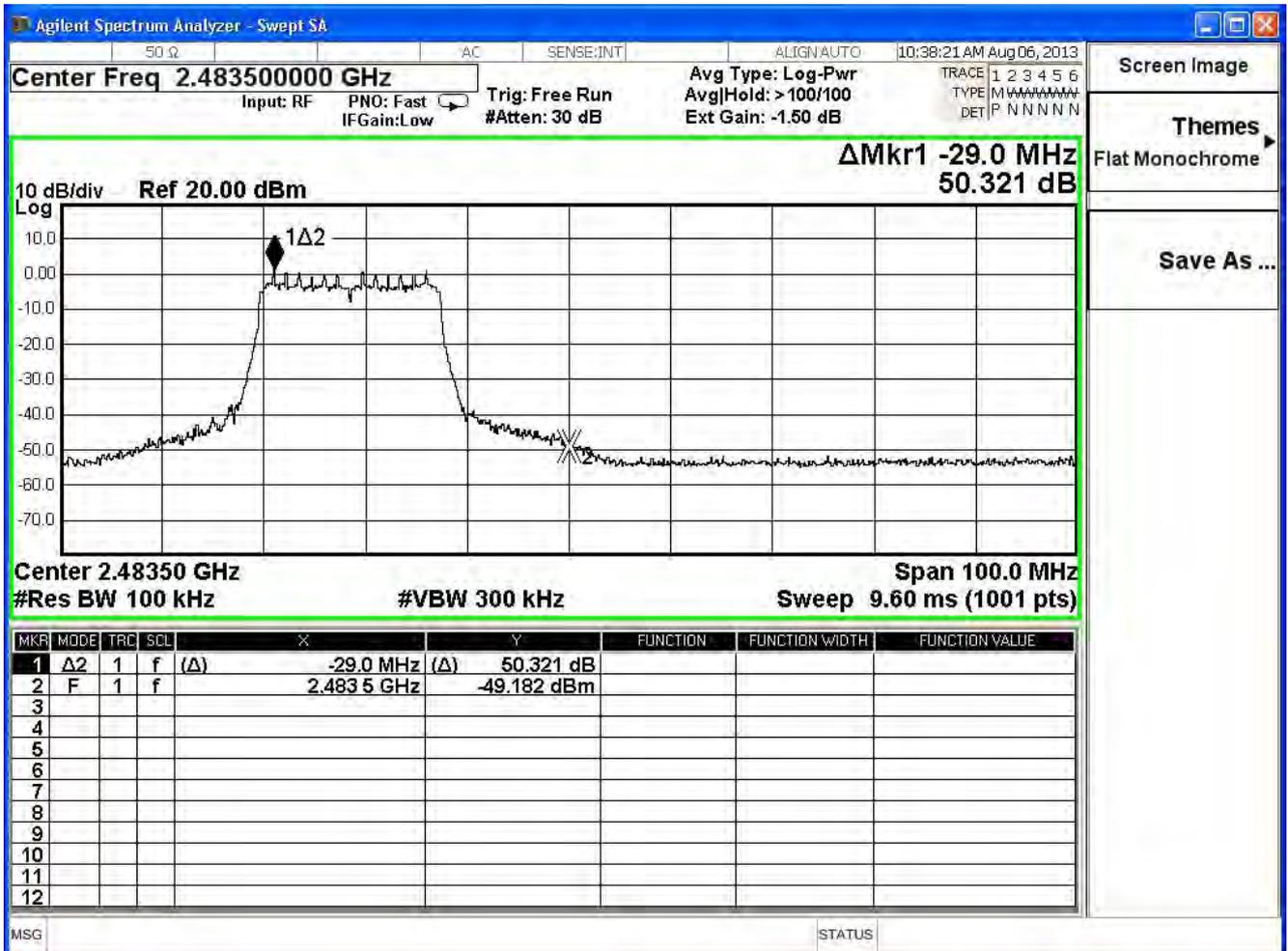
IEEE 802.11n (20MHz), (ANT 0) Duty Cycle: 1

| Channel No. | Frequency (MHz) | Measure Level (dBc) | Limit (dBc) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 1 | 2412 | 39.05 | ≥ 20 | Pass |
| 11 | 2462 | 50.32 | ≥ 20 | Pass |

Channel 1 (2412MHz)



Channel 11 (2462MHz)

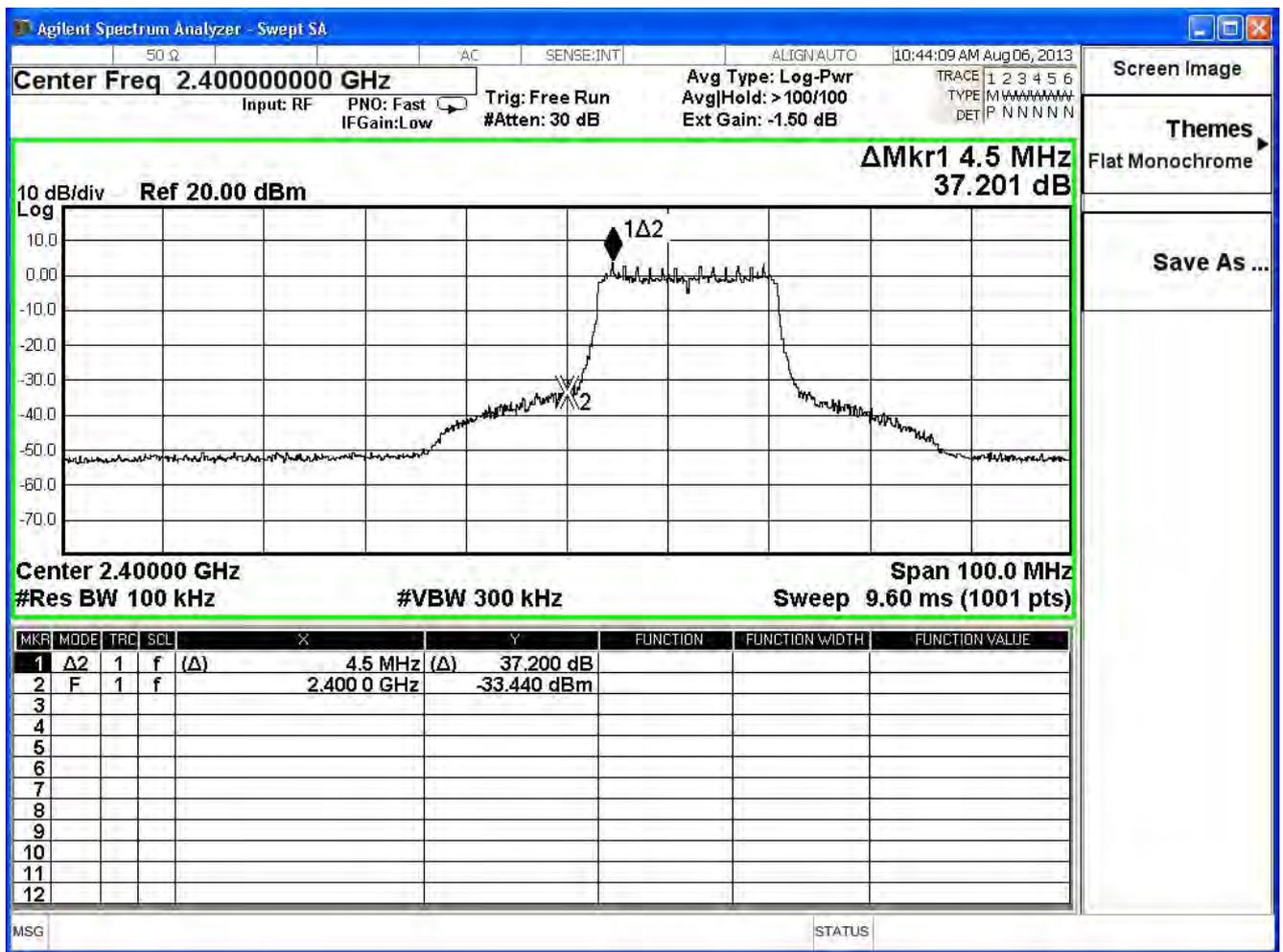


| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | RF antenna conducted test | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/08/06 | Test Site | SR7 |

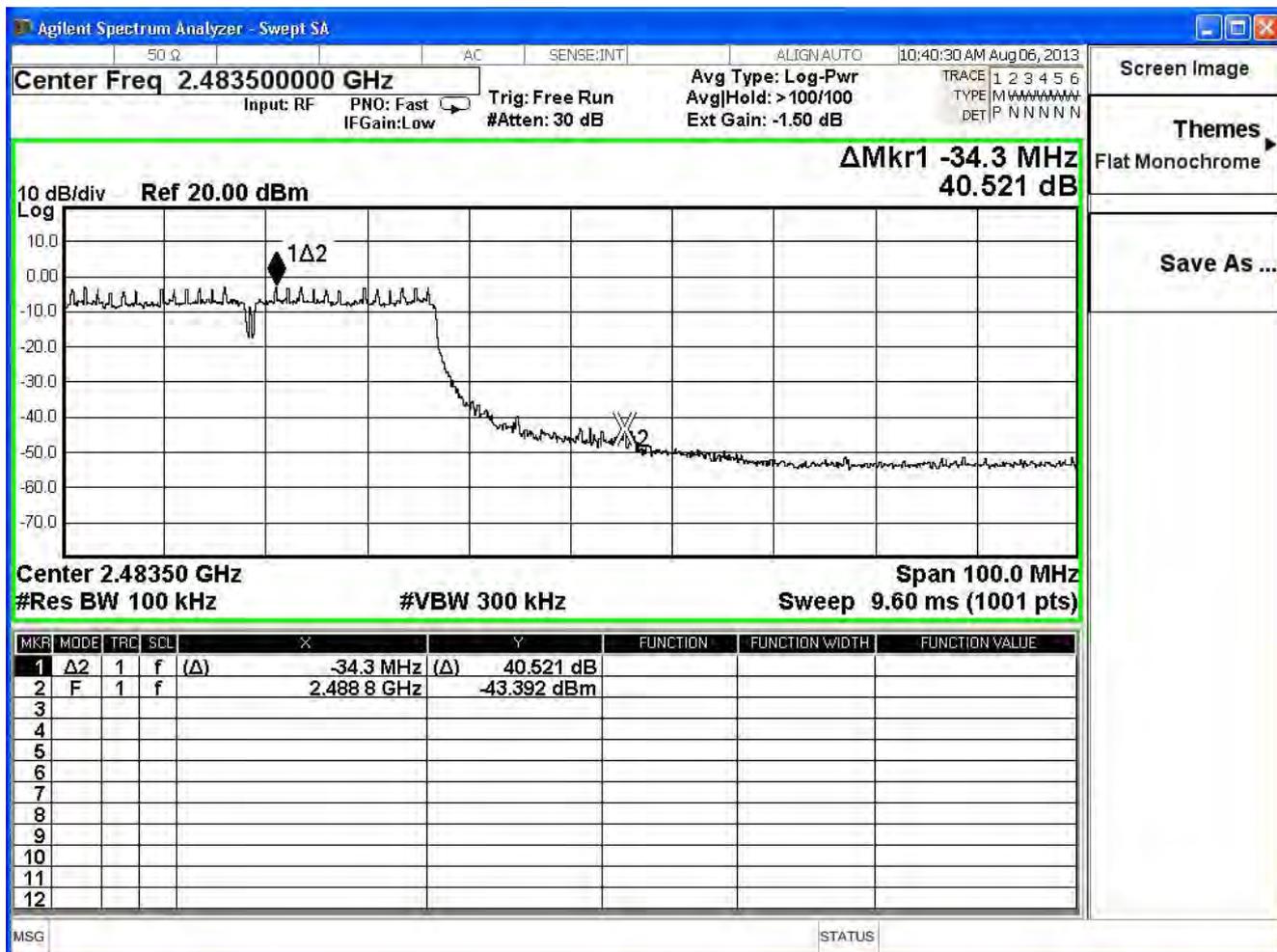
IEEE 802.11n (20MHz), (ANT 1) Duty Cycle: 1

| Channel No. | Frequency (MHz) | Measure Level (dBc) | Limit (dBc) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 1 | 2412 | 37.20 | ≥ 20 | Pass |
| 11 | 2462 | 48.41 | ≥ 20 | Pass |

Channel 1 (2412MHz)



Channel 9 (2452MHz)

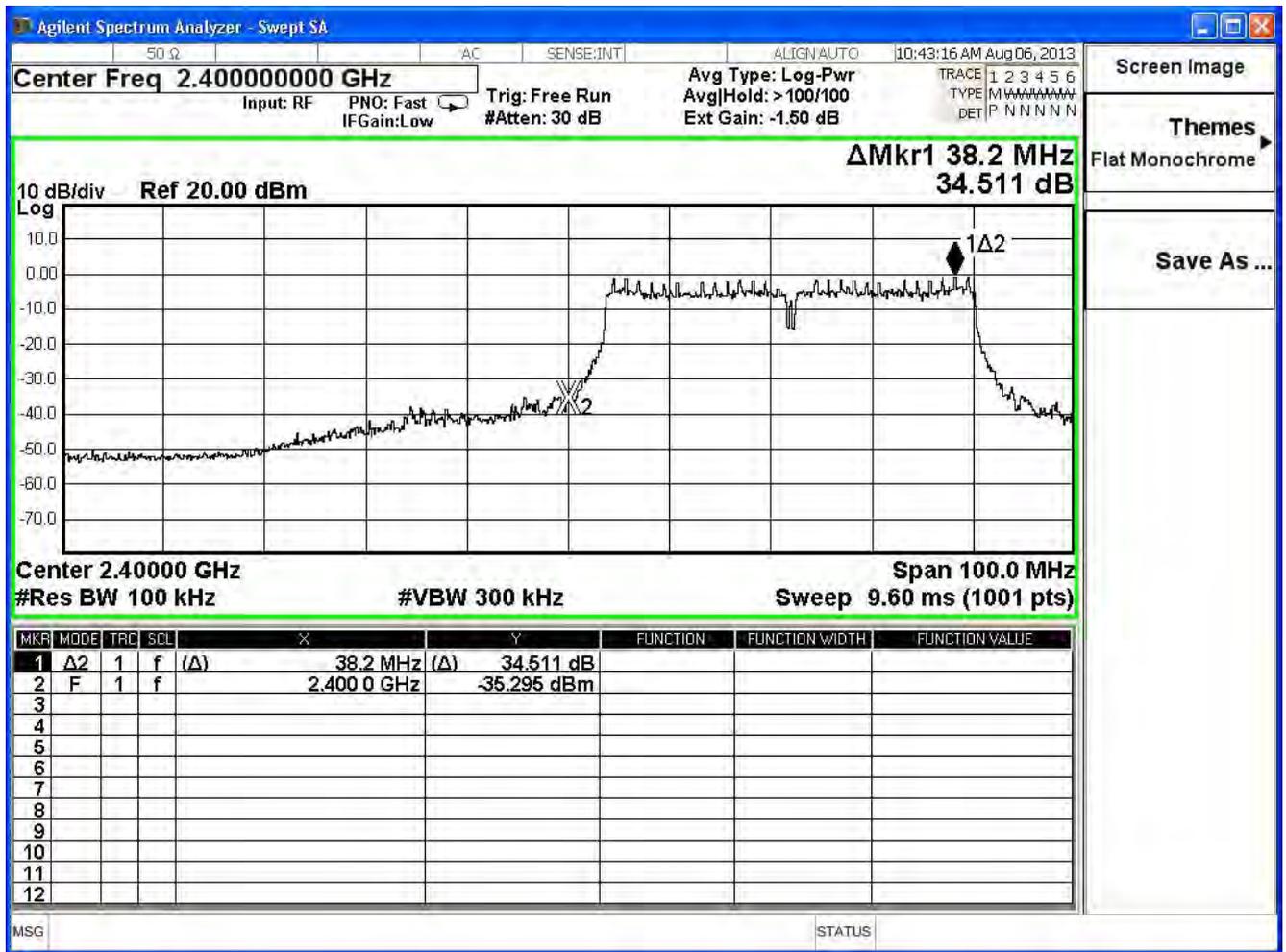


| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | RF antenna conducted test | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/08/06 | Test Site | SR7 |

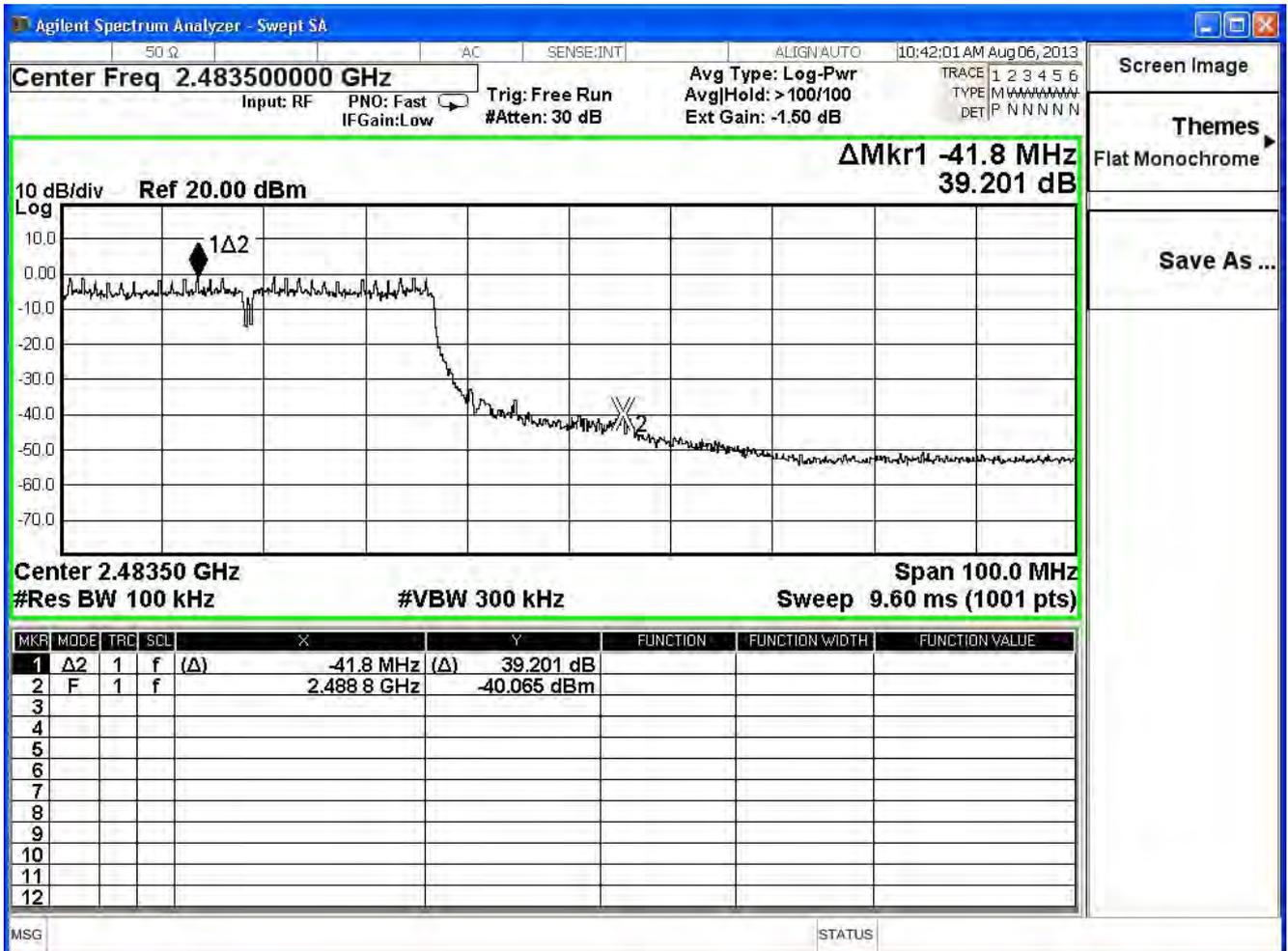
IEEE 802.11n (40MHz), (ANT 1) Duty Cycle: 1

| Channel No. | Frequency (MHz) | Measure Level (dBc) | Limit (dBc) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 3 | 2422 | 34.51 | ≥ 20 | Pass |
| 9 | 2452 | 39.20 | ≥ 20 | Pass |

Channel 3 (2422MHz)

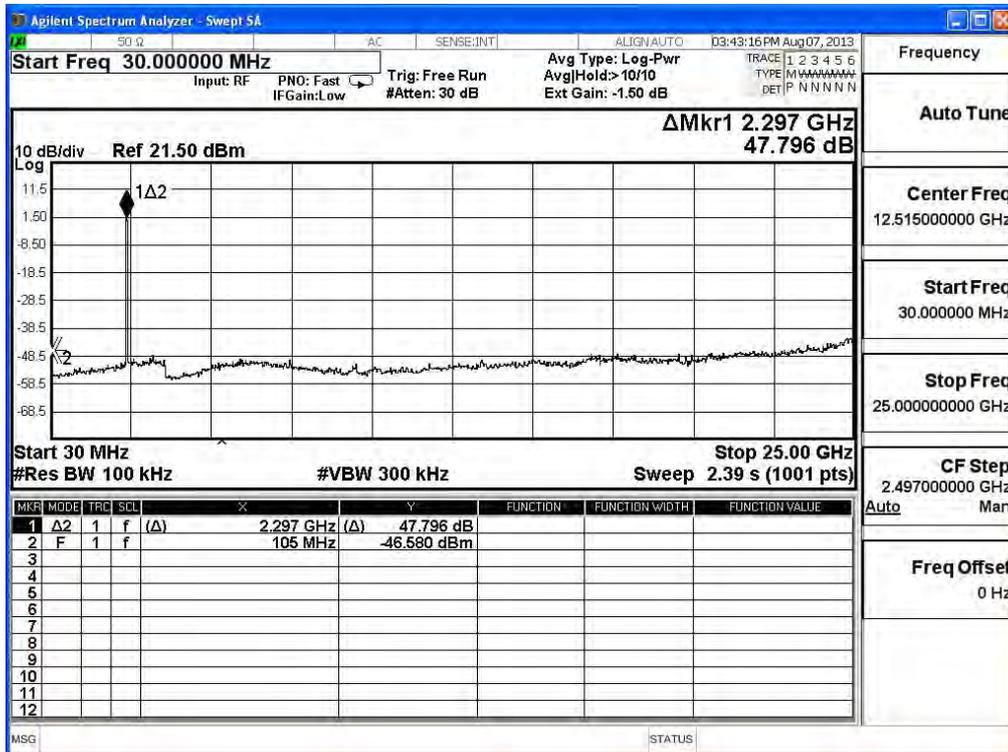


Channel 9 (2452MHz)

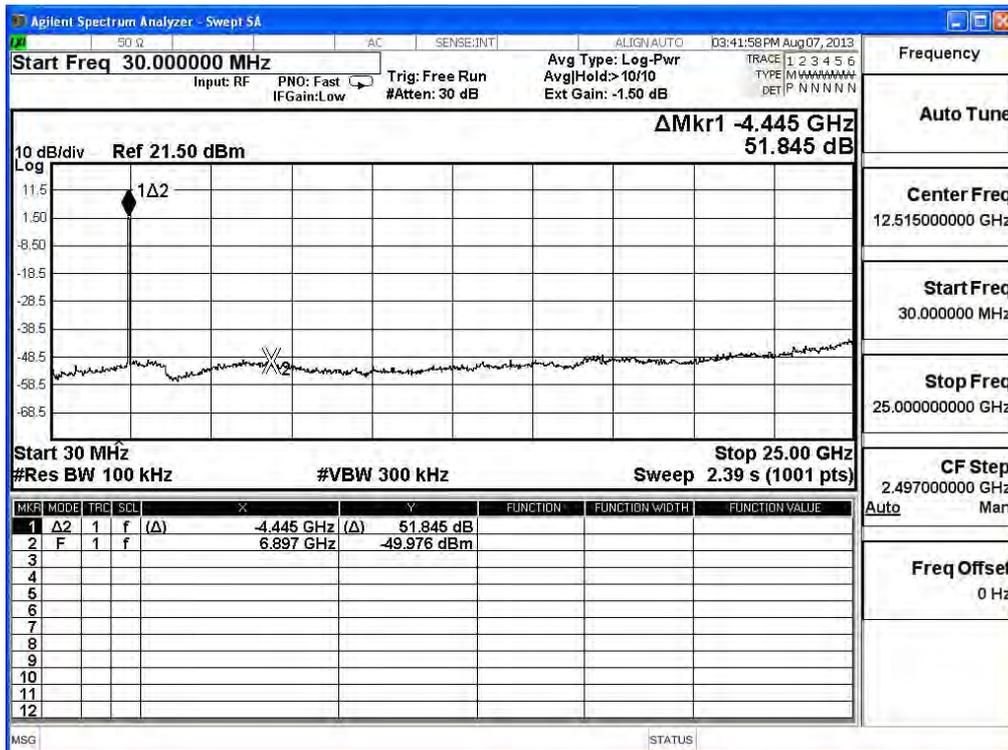


| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | RF antenna conducted test | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/08/06 | Test Site | SR7 |

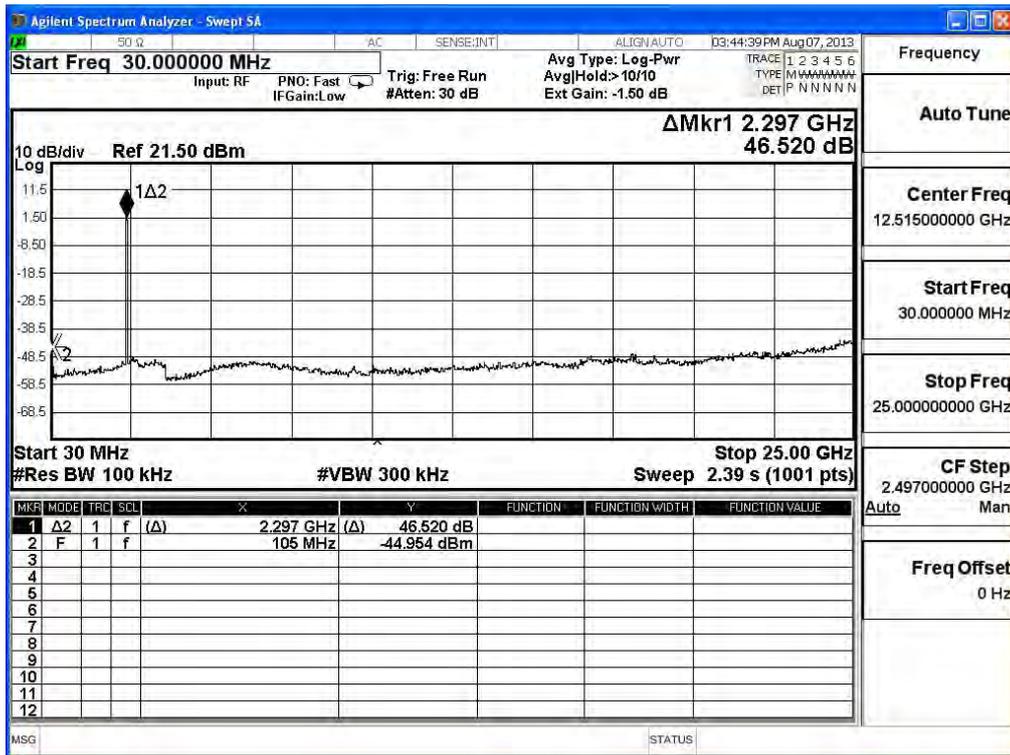
2412MHz (30MHz-25GHz)-802.11b



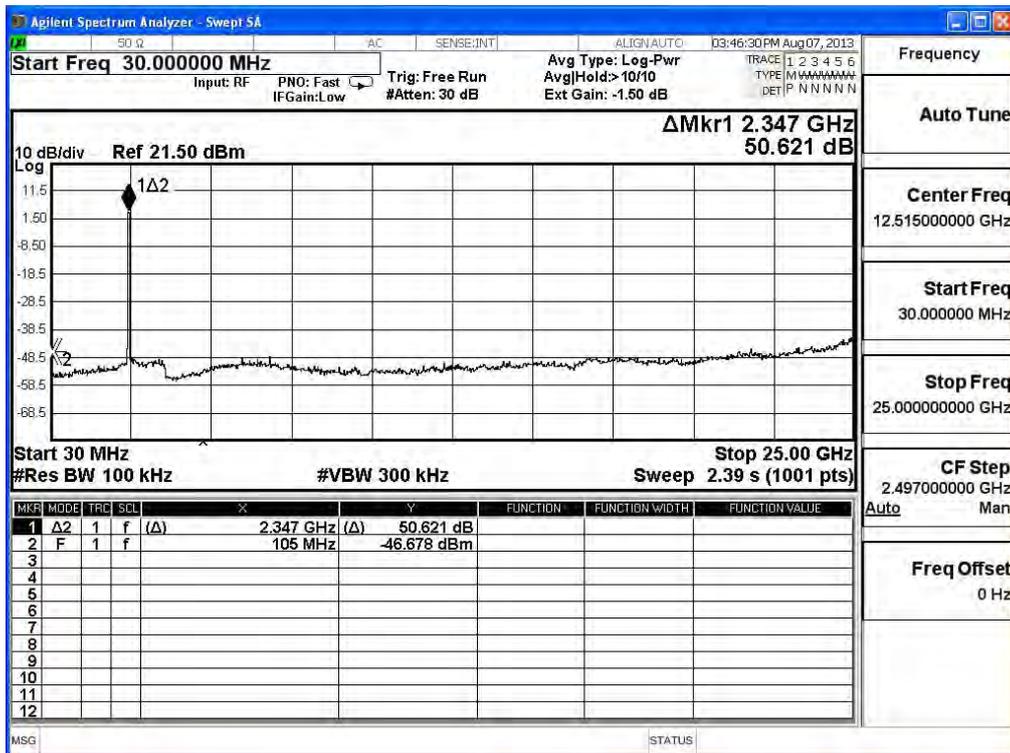
2462MHz (30MHz-25GHz) -802.11b



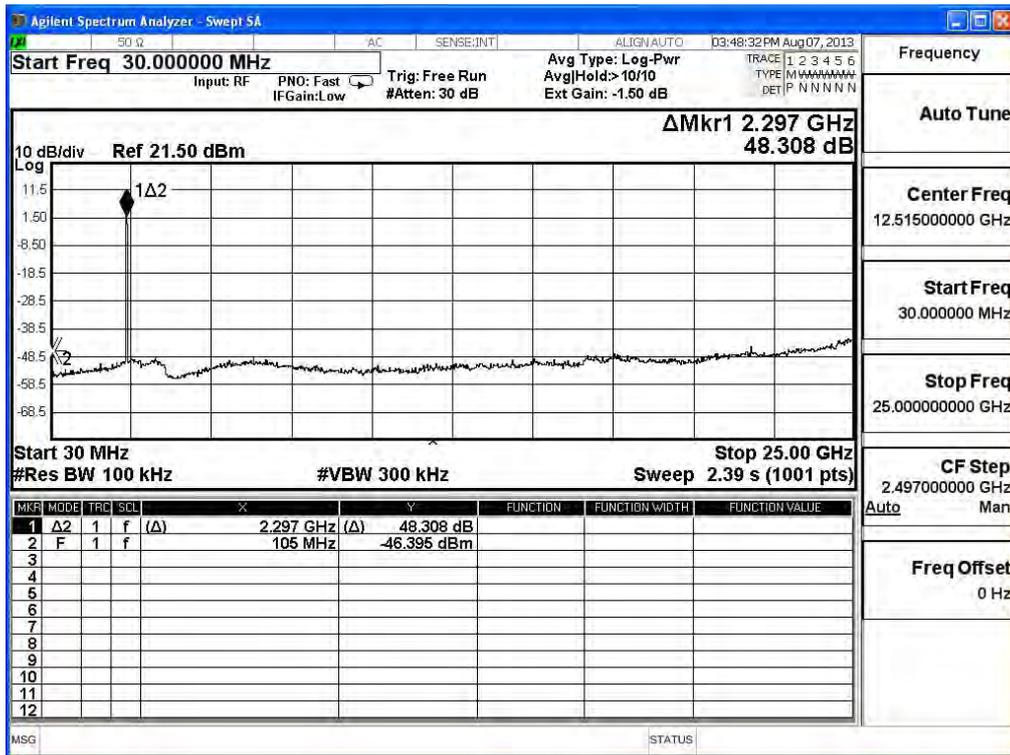
2412MHz (30MHz-25GHz)-802.11g



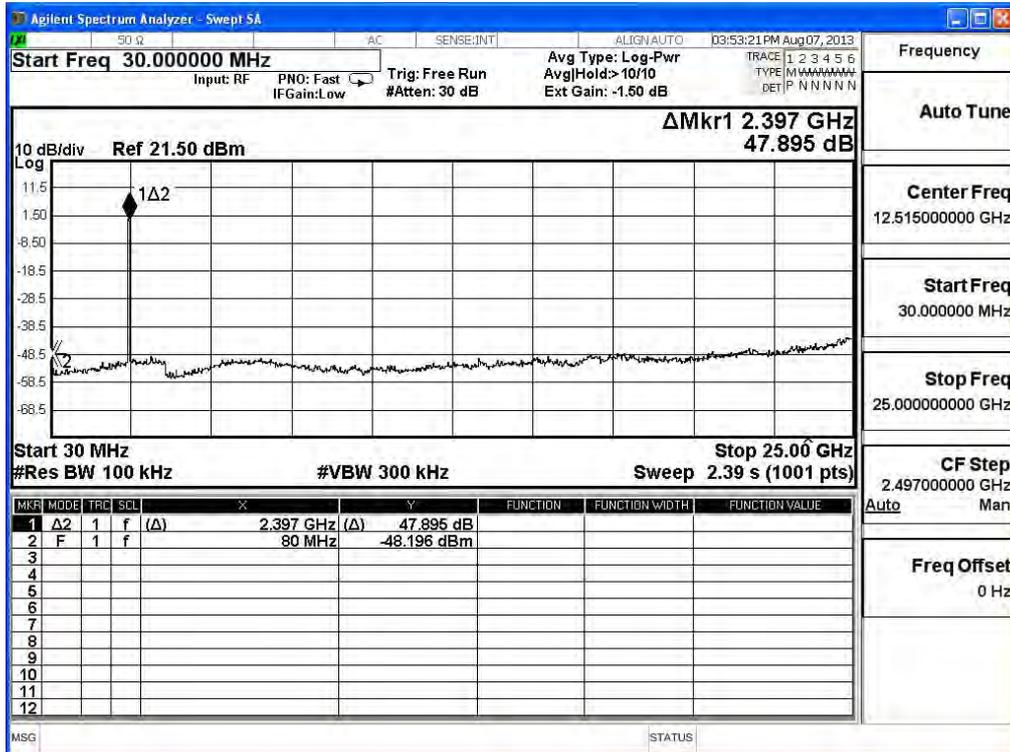
2462MHz (30MHz-25GHz) -802.11g



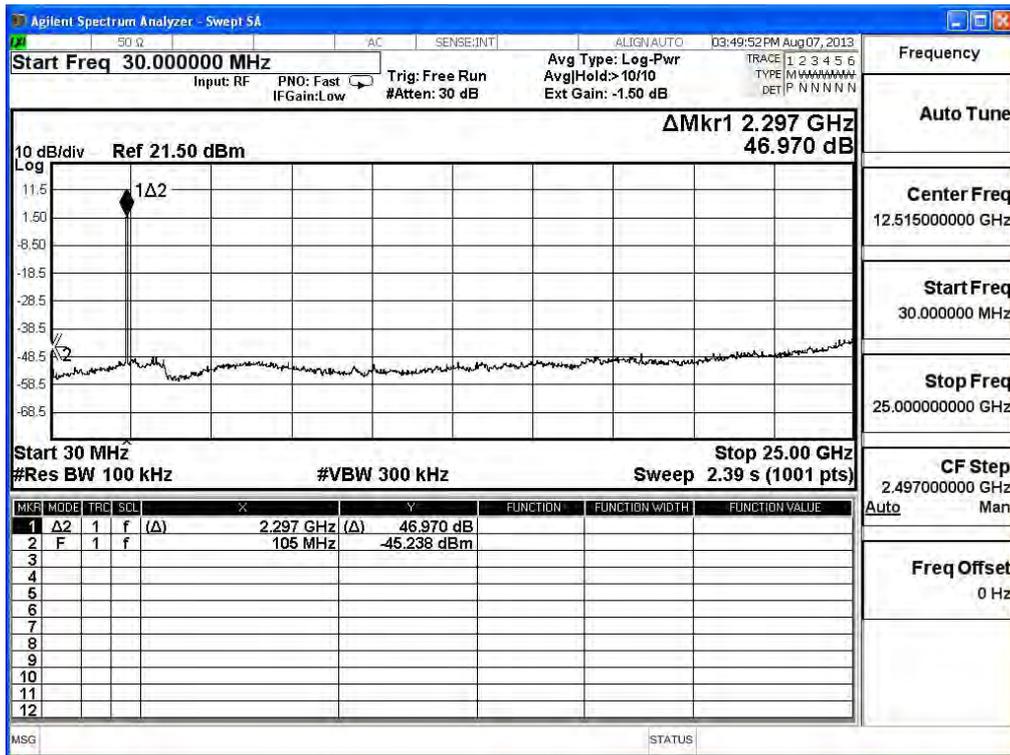
2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 0



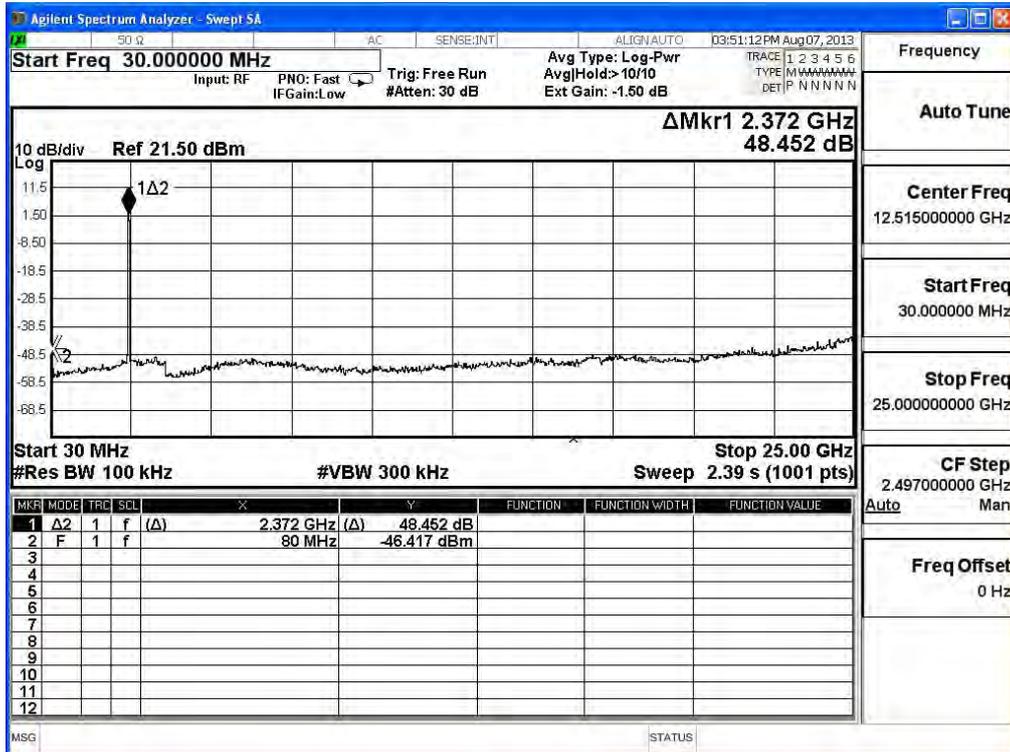
2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 0



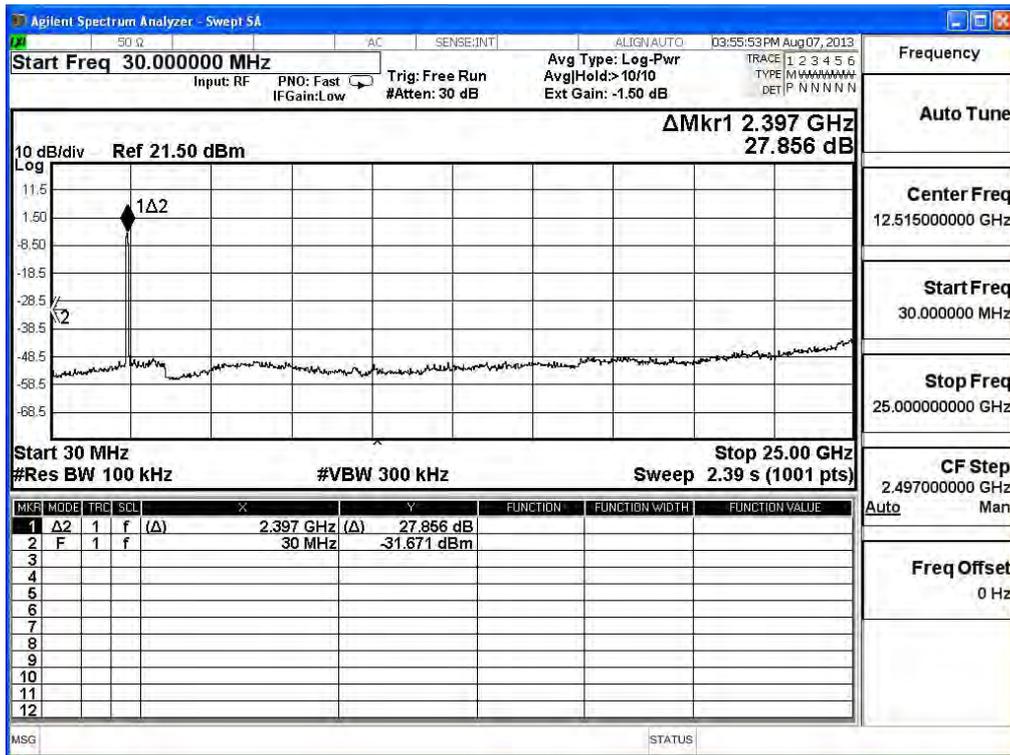
2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 1



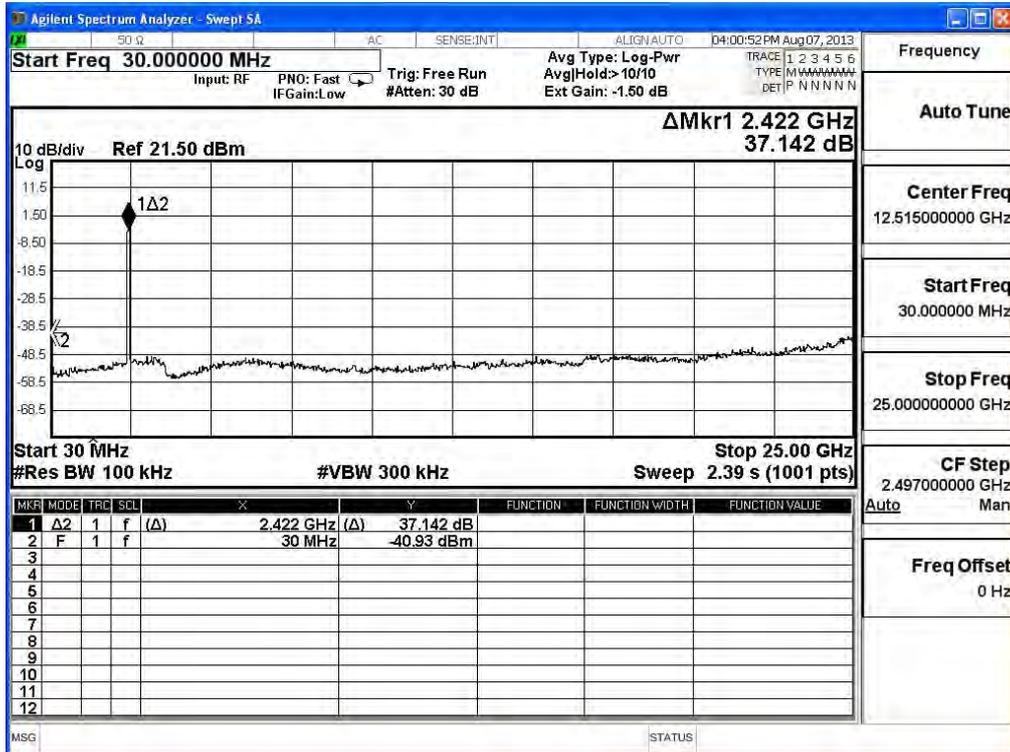
2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 1



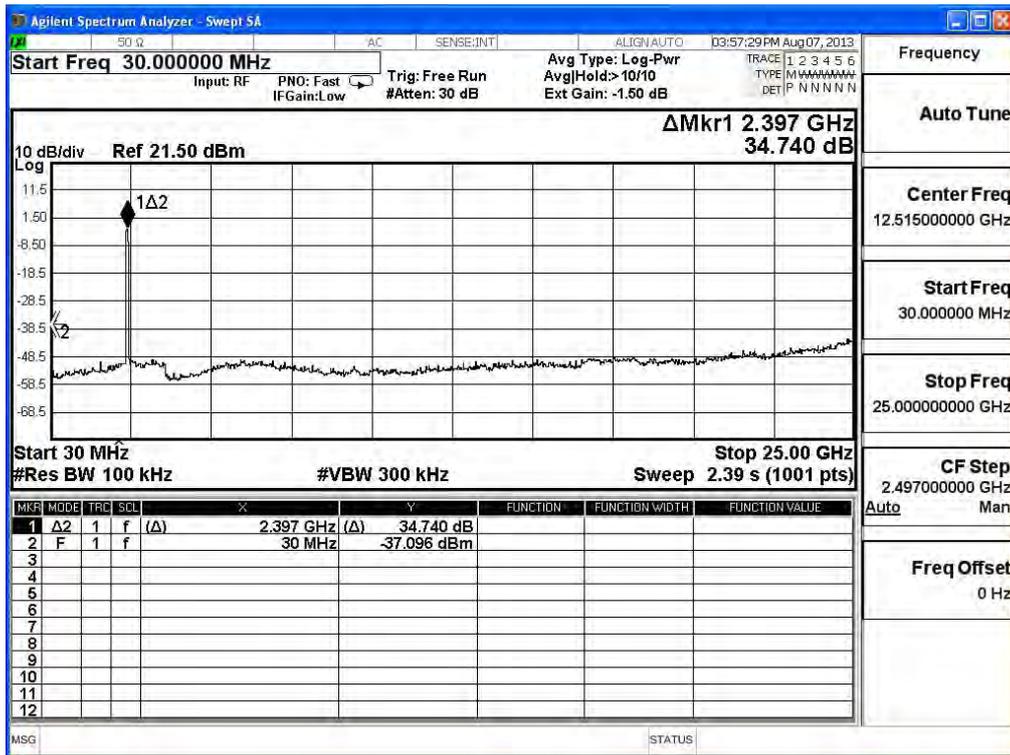
2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 0



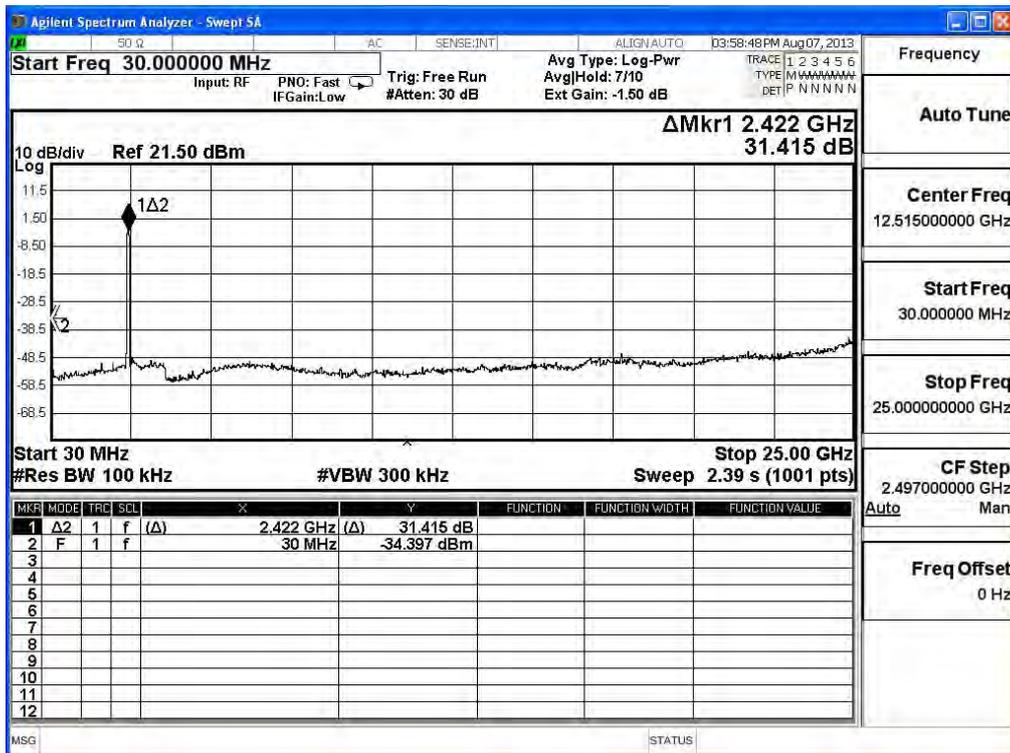
2452MHz (30MHz-25GHz) -802.11n(40MHz)-ANT 0



2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 1



2452MHz (30MHz-25GHz) -802.11n(40MHz)-ANT 1



6. Band Edge

6.1. Test Equipment

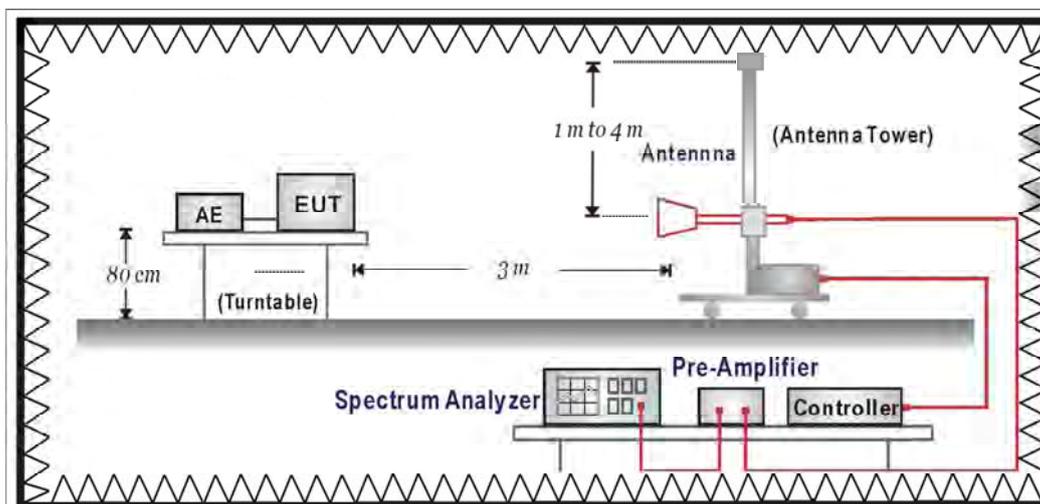
The following test equipments are used during the test:

Radiated Emission Band Edge / CB1

| Instrument | Manufacturer | Model No. | Serial No | Next Cal. Date |
|----------------------------------|--------------|--------------|------------|----------------|
| Double Ridged Guide Horn Antenna | Schwarzback | BBHA 9120 | D743 | 2014/02/17 |
| Spectrum Analyzer | Agilent | E4440A | MY46187335 | 2014/01/27 |
| k Type Cable | Huber Suhner | Sucoflex 102 | 25623/2 | 2014/02/21 |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2012

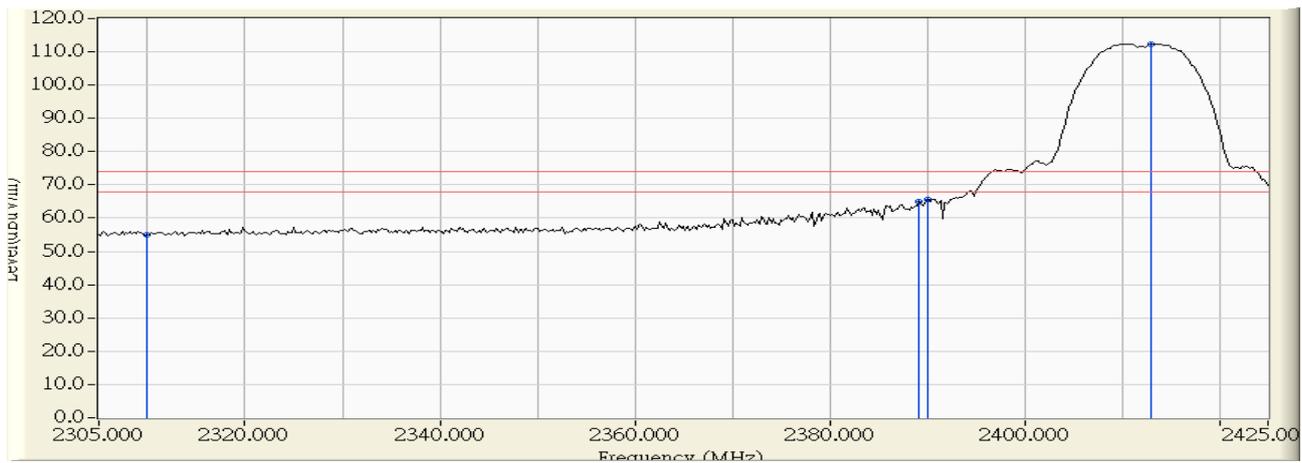
6.6. Uncertainty

The measurement uncertainty
 ± 3.9 dB above 1GHz

6.7. Test Result

Radiated is defined as

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/03 - 19:41 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2412MHz |



| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 25.003 | 55.062 | -18.938 | 74.000 | PEAK |
| 2 | 2389.200 | 30.880 | 34.103 | 64.983 | -9.017 | 74.000 | PEAK |
| 3 | 2390.000 | 30.888 | 34.701 | 65.589 | -8.411 | 74.000 | PEAK |
| 4 | * 2413.000 | 31.127 | 81.262 | 112.389 | 38.389 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/03 - 19:42 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2412MHz |

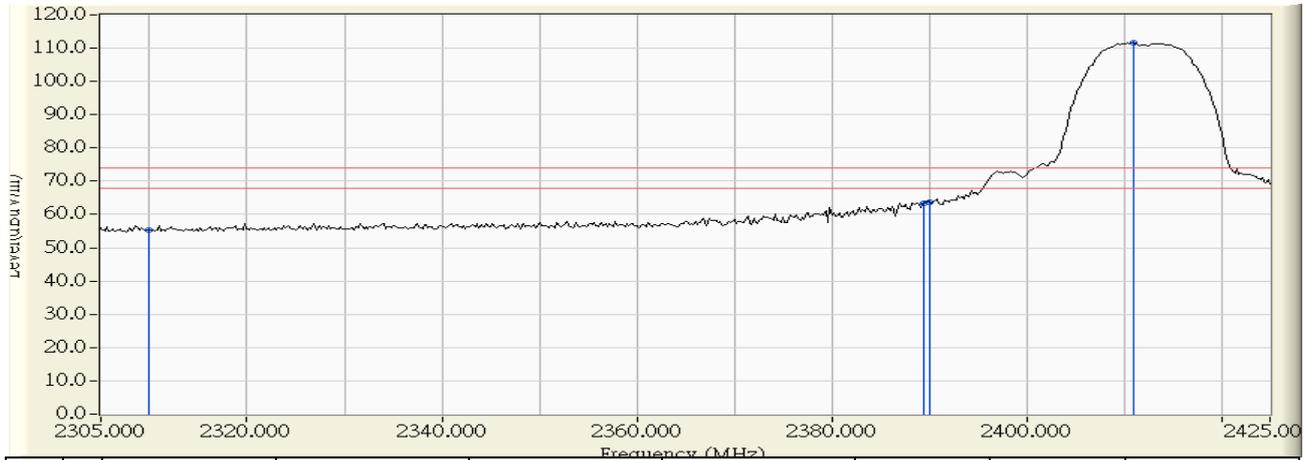


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 12.090 | 42.149 | -11.851 | 54.000 | AVERAGE |
| 2 | 2389.400 | 30.882 | 18.694 | 49.576 | -4.424 | 54.000 | AVERAGE |
| 3 | 2390.000 | 30.888 | 18.779 | 49.667 | -4.333 | 54.000 | AVERAGE |
| 4 | * 2411.200 | 31.108 | 74.090 | 105.198 | 51.198 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------------|
| Site : CB1 | Time : 2013/09/03 - 19:29 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2412MHz_Index=31 |



| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 25.122 | 55.181 | -18.819 | 74.000 | PEAK |
| 2 | 2389.400 | 30.882 | 32.417 | 63.299 | -10.701 | 74.000 | PEAK |
| 3 | 2390.000 | 30.888 | 32.920 | 63.808 | -10.192 | 74.000 | PEAK |
| 4 | * 2411.000 | 31.106 | 80.461 | 111.567 | 37.567 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------------|
| Site : CB1 | Time : 2013/09/03 - 19:28 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2412MHz_Index=31 |

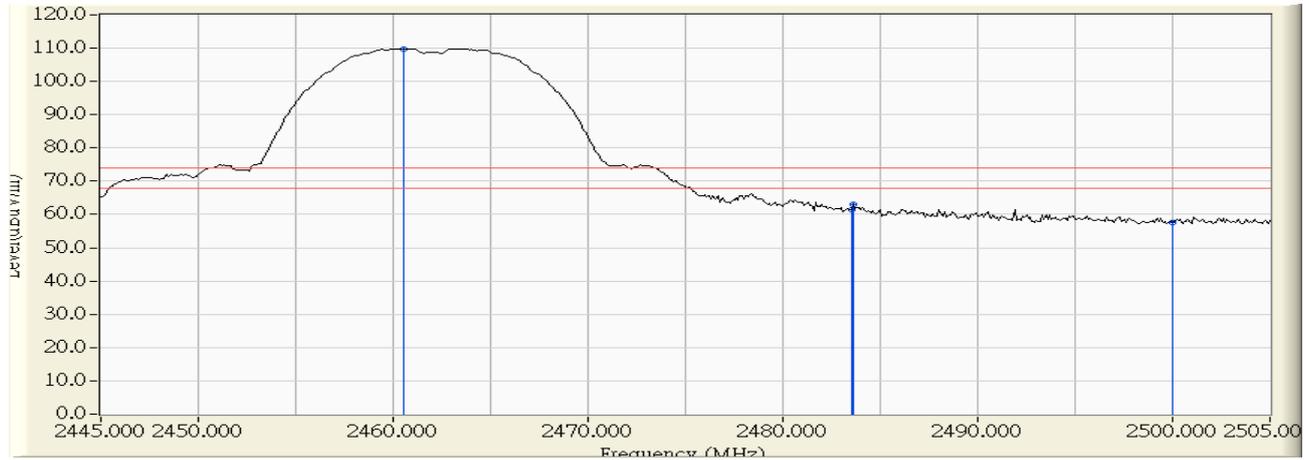


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 13.329 | 43.388 | -10.612 | 54.000 | AVERAGE |
| 2 | 2389.600 | 30.884 | 18.587 | 49.471 | -4.529 | 54.000 | AVERAGE |
| 3 | 2390.000 | 30.888 | 19.145 | 50.033 | -3.967 | 54.000 | AVERAGE |
| 4 | * 2411.200 | 31.108 | 76.581 | 107.689 | 53.689 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/03 - 20:04 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2462MHz |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 2460.500 | 31.620 | 78.135 | 109.754 | 35.754 | 74.000 | PEAK |
| 2 | | 2483.500 | 31.858 | 29.532 | 61.390 | -12.610 | 74.000 | PEAK |
| 3 | | 2483.600 | 31.859 | 31.096 | 62.955 | -11.045 | 74.000 | PEAK |
| 4 | | 2500.000 | 31.988 | 25.695 | 57.684 | -16.316 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------------|
| Site : CB1 | Time : 2013/09/03 - 20:05 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2462MHz_Index=32 |

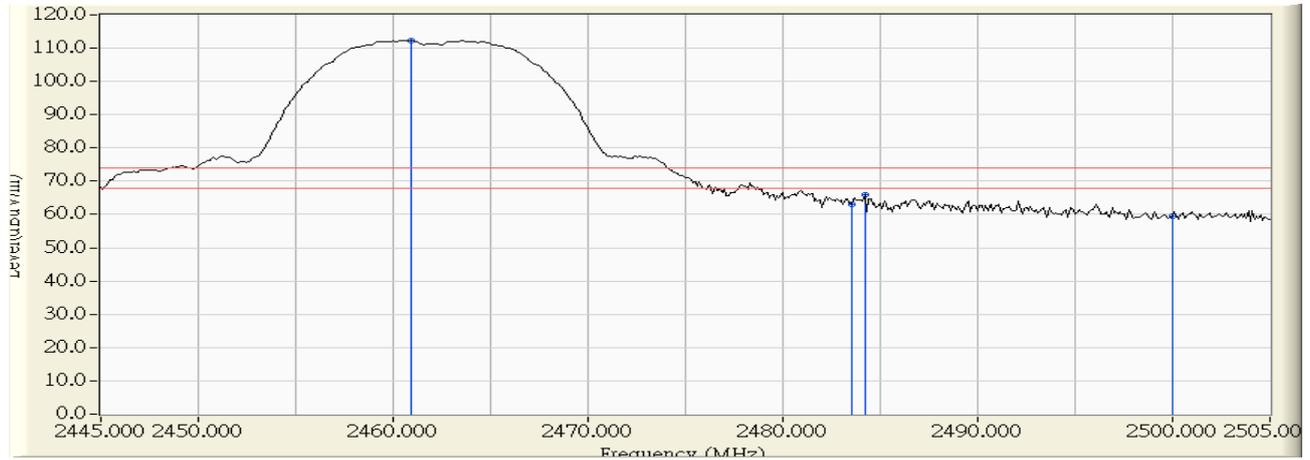


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 2459.700 | 31.611 | 74.221 | 105.832 | 51.832 | 54.000 | AVERAGE |
| 2 | | 2483.500 | 31.858 | 17.866 | 49.724 | -4.276 | 54.000 | AVERAGE |
| 3 | | 2483.700 | 31.860 | 17.373 | 49.233 | -4.767 | 54.000 | AVERAGE |
| 4 | | 2500.000 | 31.988 | 12.990 | 44.979 | -9.021 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/03 - 19:59 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2462MHz |

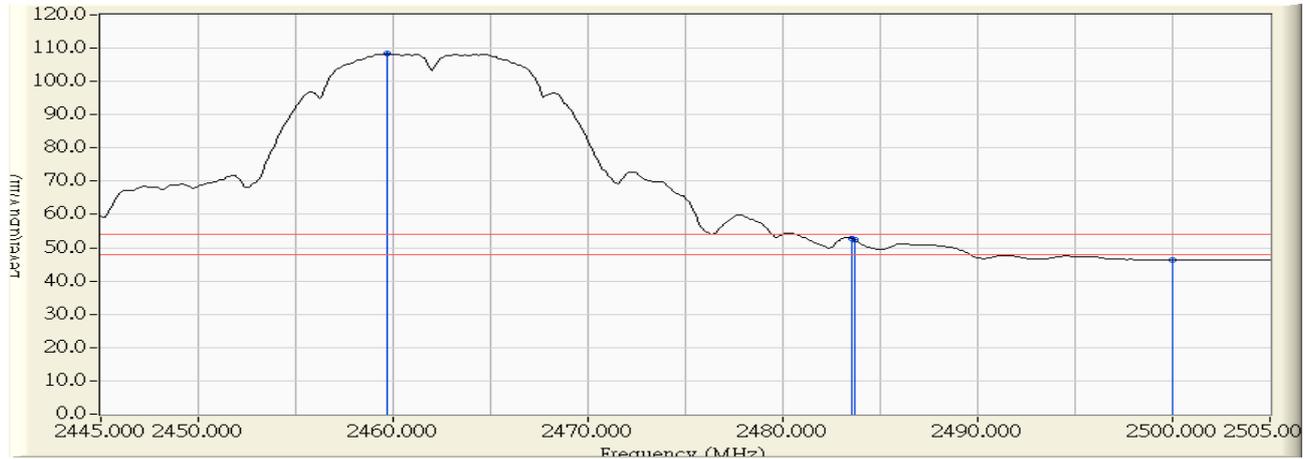


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 2460.900 | 31.623 | 80.562 | 112.186 | 38.186 | 74.000 | PEAK |
| 2 | | 2483.500 | 31.858 | 31.138 | 62.996 | -11.004 | 74.000 | PEAK |
| 3 | | 2484.200 | 31.866 | 34.066 | 65.931 | -8.069 | 74.000 | PEAK |
| 4 | | 2500.000 | 31.988 | 27.526 | 59.515 | -14.485 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/03 - 19:56 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11b_2462MHz |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 2459.700 | 31.611 | 76.674 | 108.285 | 54.285 | 54.000 | AVERAGE |
| 2 | | 2483.500 | 31.858 | 20.965 | 52.823 | -1.177 | 54.000 | AVERAGE |
| 3 | | 2483.700 | 31.860 | 20.448 | 52.308 | -1.692 | 54.000 | AVERAGE |
| 4 | | 2500.000 | 31.988 | 14.260 | 46.249 | -7.751 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/03 - 20:17 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2412MHz |



| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 24.812 | 54.871 | -19.129 | 74.000 | PEAK |
| 2 | 2389.400 | 30.882 | 36.887 | 67.769 | -6.231 | 74.000 | PEAK |
| 3 | 2390.000 | 30.888 | 35.731 | 66.619 | -7.381 | 74.000 | PEAK |
| 4 | * 2407.200 | 31.066 | 76.417 | 107.484 | 33.484 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/03 - 20:18 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2412MHz |



| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 12.326 | 42.385 | -11.615 | 54.000 | AVERAGE |
| 2 | 2389.600 | 30.884 | 18.775 | 49.659 | -4.341 | 54.000 | AVERAGE |
| 3 | 2390.000 | 30.888 | 19.399 | 50.287 | -3.713 | 54.000 | AVERAGE |
| 4 | * 2404.800 | 31.042 | 60.381 | 91.423 | 37.423 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/03 - 20:11 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2412MHz |



| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 25.312 | 55.371 | -18.629 | 74.000 | PEAK |
| 2 | 2389.800 | 30.886 | 38.961 | 69.847 | -4.153 | 74.000 | PEAK |
| 3 | 2390.000 | 30.888 | 35.851 | 66.739 | -7.261 | 74.000 | PEAK |
| 4 | * 2407.200 | 31.066 | 79.042 | 110.109 | 36.109 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/03 - 20:12 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2412MHz |

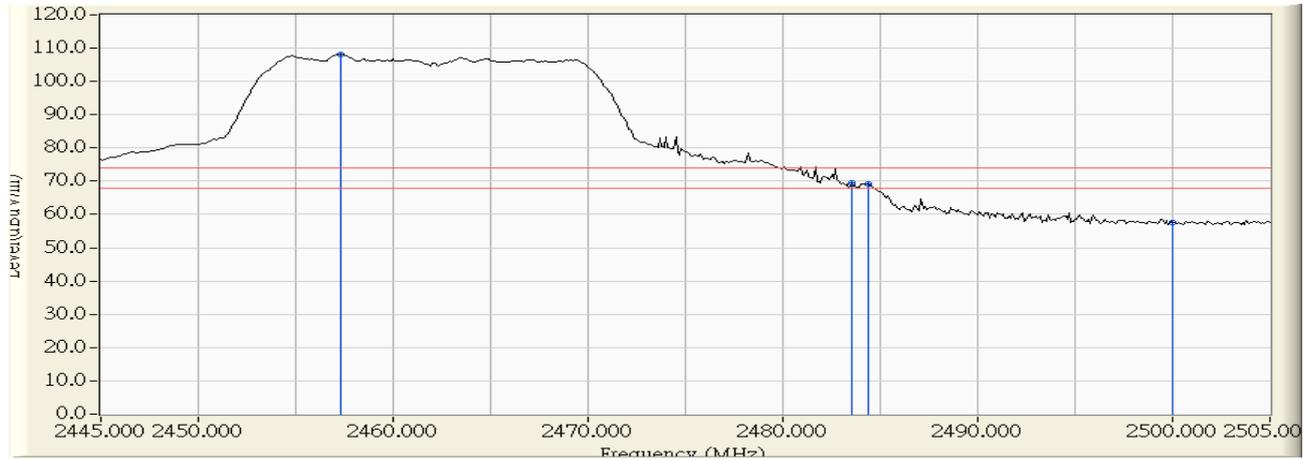


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 12.252 | 42.311 | -11.689 | 54.000 | AVERAGE |
| 2 | 2389.600 | 30.884 | 18.595 | 49.479 | -4.521 | 54.000 | AVERAGE |
| 3 | 2390.000 | 30.888 | 19.257 | 50.145 | -3.855 | 54.000 | AVERAGE |
| 4 | * 2419.200 | 31.191 | 62.379 | 93.570 | 39.570 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/03 - 20:48 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2462MHz |

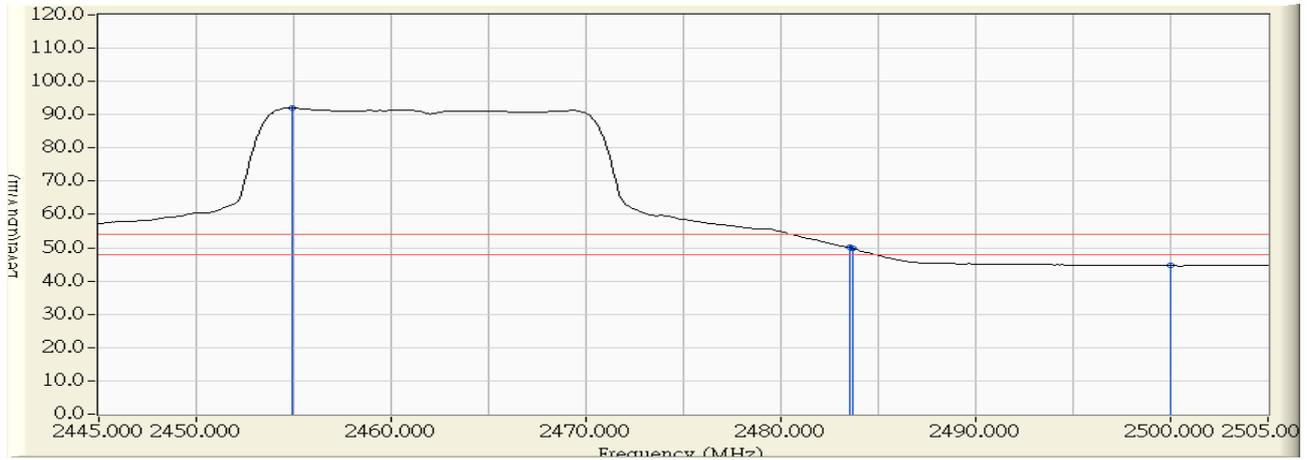


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 2457.300 | 31.586 | 76.661 | 108.247 | 34.247 | 74.000 | PEAK |
| 2 | | 2483.500 | 31.858 | 37.629 | 69.487 | -4.513 | 74.000 | PEAK |
| 3 | | 2484.400 | 31.867 | 37.429 | 69.296 | -4.704 | 74.000 | PEAK |
| 4 | | 2500.000 | 31.988 | 25.577 | 57.566 | -16.434 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------|
| Site : CB1 | Time : 2013/09/03 - 20:49 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2462MHz |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 2454.900 | 31.561 | 60.435 | 91.996 | 37.996 | 54.000 | AVERAGE |
| 2 | | 2483.500 | 31.858 | 18.182 | 50.040 | -3.960 | 54.000 | AVERAGE |
| 3 | | 2483.700 | 31.860 | 17.868 | 49.728 | -4.272 | 54.000 | AVERAGE |
| 4 | | 2500.000 | 31.988 | 12.599 | 44.588 | -9.412 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------------|
| Site : CB1 | Time : 2013/09/03 - 20:41 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2462MHz_Index=24 |

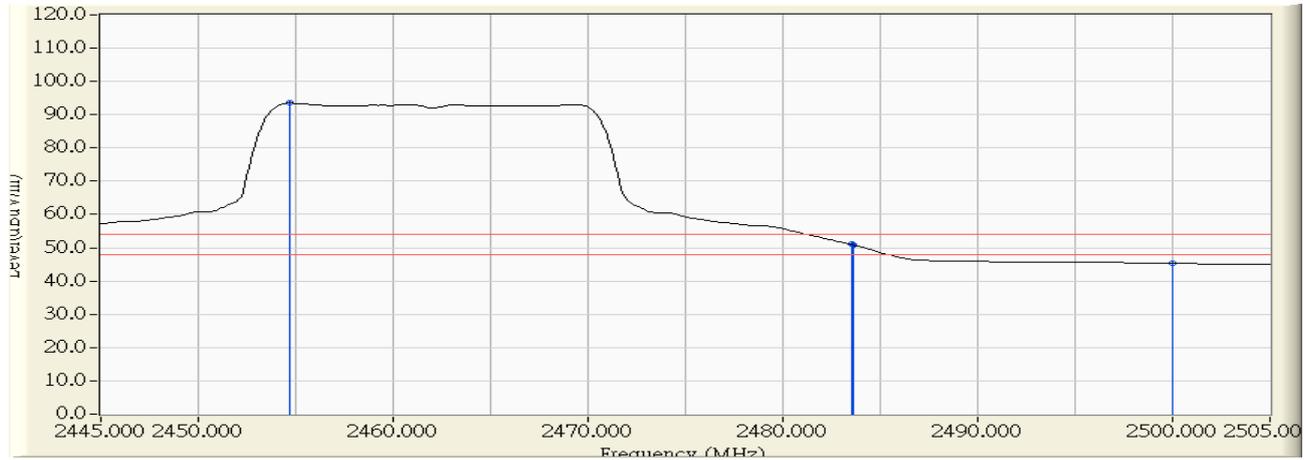


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 2457.200 | 31.585 | 78.358 | 109.943 | 35.943 | 74.000 | PEAK |
| 2 | | 2483.500 | 31.858 | 36.759 | 68.617 | -5.383 | 74.000 | PEAK |
| 3 | | 2484.600 | 31.869 | 37.911 | 69.780 | -4.220 | 74.000 | PEAK |
| 4 | | 2500.000 | 31.988 | 25.515 | 57.504 | -16.496 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---------------------------------|
| Site : CB1 | Time : 2013/09/03 - 20:42 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11g_2462MHz_Index=24 |

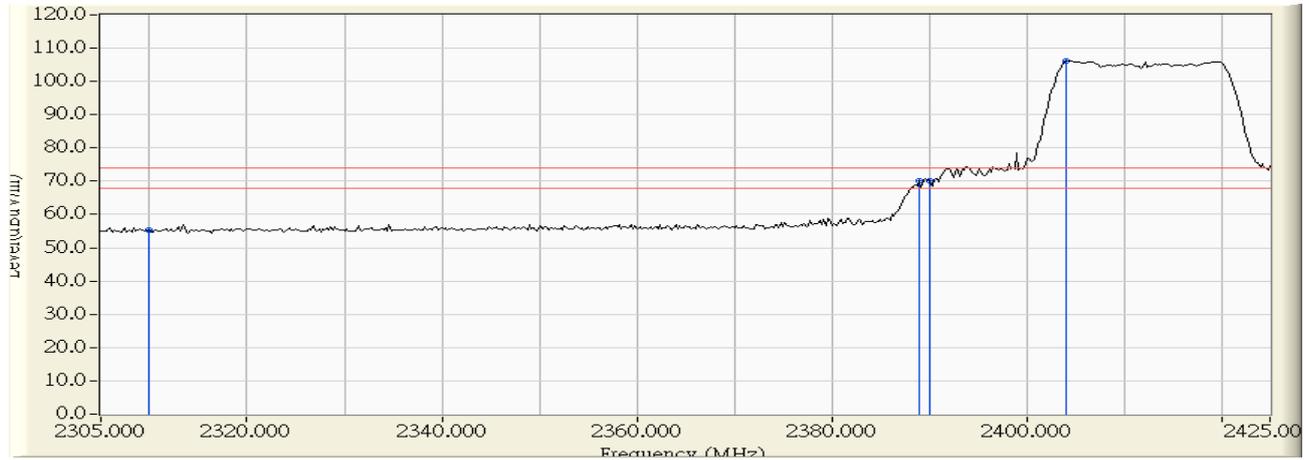


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 2454.700 | 31.559 | 61.944 | 93.503 | 39.503 | 54.000 | AVERAGE |
| 2 | | 2483.500 | 31.858 | 19.151 | 51.009 | -2.991 | 54.000 | AVERAGE |
| 3 | | 2483.600 | 31.859 | 18.975 | 50.834 | -3.166 | 54.000 | AVERAGE |
| 4 | | 2500.000 | 31.988 | 13.316 | 45.305 | -8.695 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/03 - 21:10 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) 2412MHz |



| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 25.244 | 55.303 | -18.697 | 74.000 | PEAK |
| 2 | 2389.000 | 30.878 | 39.416 | 70.294 | -3.706 | 74.000 | PEAK |
| 3 | 2390.000 | 30.888 | 39.200 | 70.088 | -3.912 | 74.000 | PEAK |
| 4 | * 2404.000 | 31.034 | 75.066 | 106.100 | 32.100 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/03 - 21:11 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz)_2412MHz |

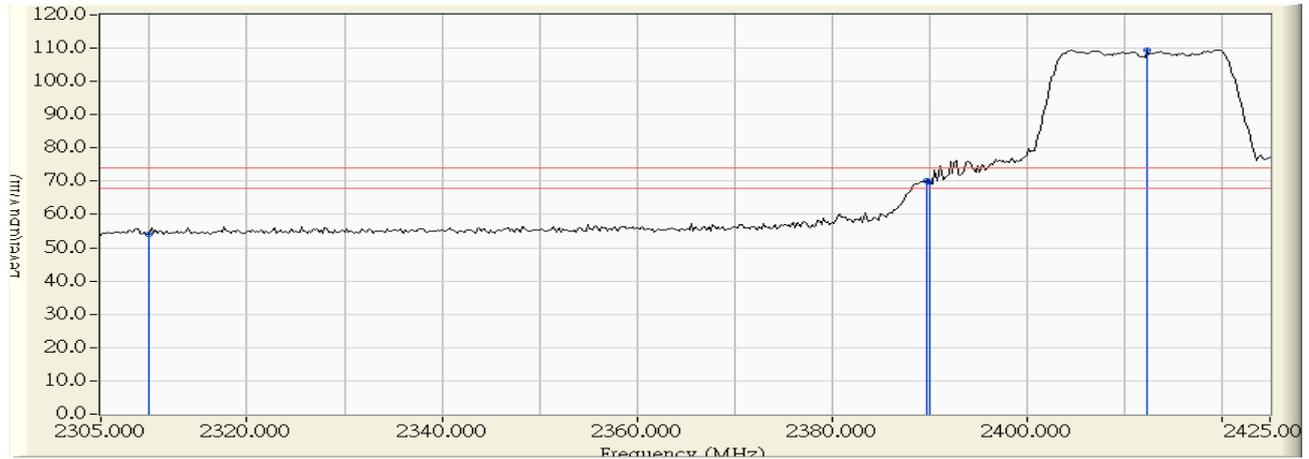


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 12.129 | 42.188 | -11.812 | 54.000 | AVERAGE |
| 2 | 2389.800 | 30.886 | 18.567 | 49.453 | -4.547 | 54.000 | AVERAGE |
| 3 | 2390.000 | 30.888 | 18.697 | 49.585 | -4.415 | 54.000 | AVERAGE |
| 4 | * 2419.600 | 31.195 | 53.639 | 84.834 | 30.834 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|--|
| Site : CB1 | Time : 2013/09/03 - 21:04 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz)_2412MHz_Index=23 |



| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 23.993 | 54.052 | -19.948 | 74.000 | PEAK |
| 2 | 2389.800 | 30.886 | 39.131 | 70.017 | -3.983 | 74.000 | PEAK |
| 3 | 2390.000 | 30.888 | 38.965 | 69.853 | -4.147 | 74.000 | PEAK |
| 4 | * 2412.400 | 31.121 | 78.308 | 109.429 | 35.429 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|--|
| Site : CB1 | Time : 2013/09/03 - 21:04 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz)_2412MHz_Index=23 |

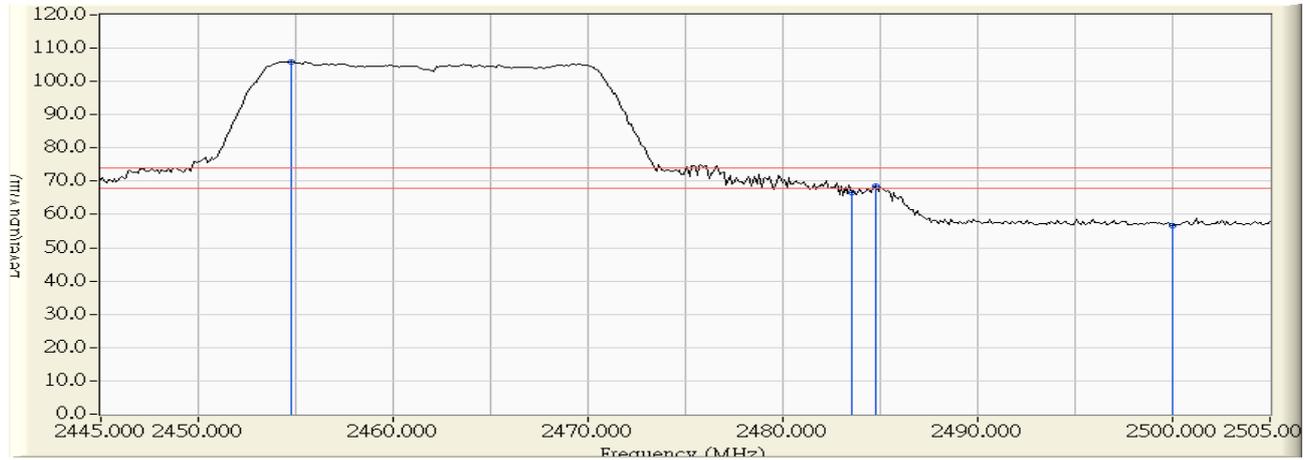


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 12.228 | 42.287 | -11.713 | 54.000 | AVERAGE |
| 2 | 2389.800 | 30.886 | 20.101 | 50.987 | -3.013 | 54.000 | AVERAGE |
| 3 | 2390.000 | 30.888 | 20.372 | 51.260 | -2.740 | 54.000 | AVERAGE |
| 4 | * 2404.400 | 31.037 | 56.329 | 87.367 | 33.367 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/03 - 21:40 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz)_2462MHz |

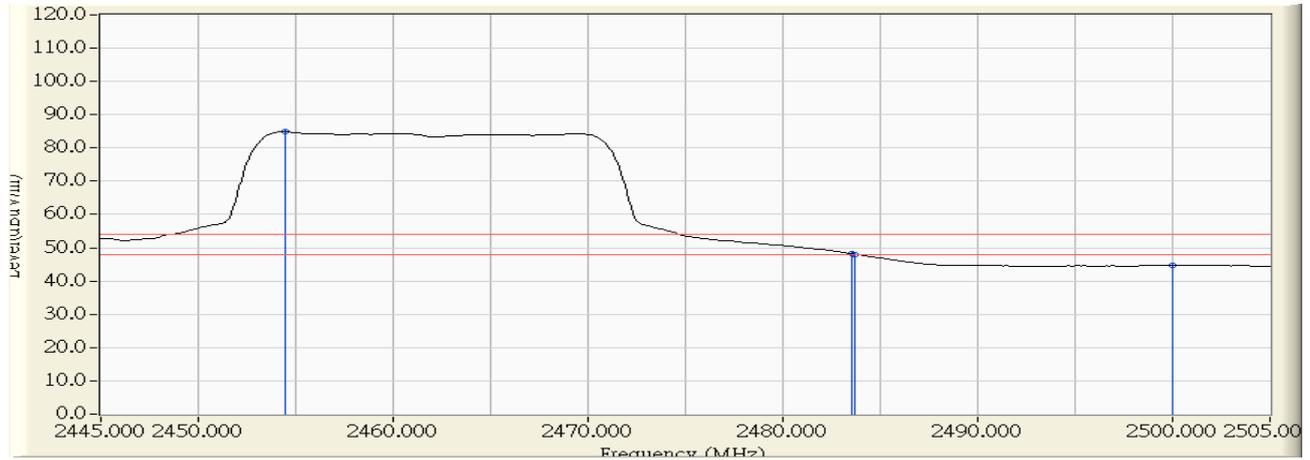


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 2454.800 | 31.560 | 74.377 | 105.937 | 31.937 | 74.000 | PEAK |
| 2 | | 2483.500 | 31.858 | 34.768 | 66.626 | -7.374 | 74.000 | PEAK |
| 3 | | 2484.800 | 31.871 | 36.598 | 68.469 | -5.531 | 74.000 | PEAK |
| 4 | | 2500.000 | 31.988 | 24.715 | 56.704 | -17.296 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/03 - 21:40 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz)_2462MHz |

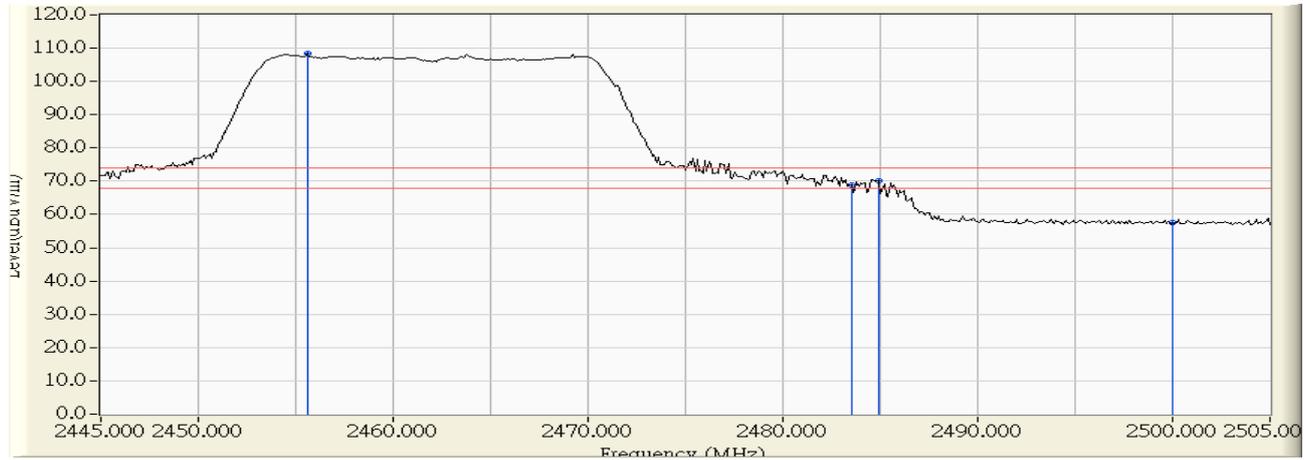


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 2454.500 | 31.557 | 53.481 | 85.038 | 31.038 | 54.000 | AVERAGE |
| 2 | | 2483.500 | 31.858 | 16.351 | 48.209 | -5.791 | 54.000 | AVERAGE |
| 3 | | 2483.700 | 31.860 | 16.182 | 48.042 | -5.958 | 54.000 | AVERAGE |
| 4 | | 2500.000 | 31.988 | 12.615 | 44.604 | -9.396 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/03 - 21:35 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) 2462MHz |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 2455.600 | 31.569 | 76.821 | 108.390 | 34.390 | 74.000 | PEAK |
| 2 | | 2483.500 | 31.858 | 36.834 | 68.692 | -5.308 | 74.000 | PEAK |
| 3 | | 2484.900 | 31.872 | 38.399 | 70.271 | -3.729 | 74.000 | PEAK |
| 4 | | 2500.000 | 31.988 | 25.627 | 57.616 | -16.384 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/03 - 21:35 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(20MHz) 2462MHz |

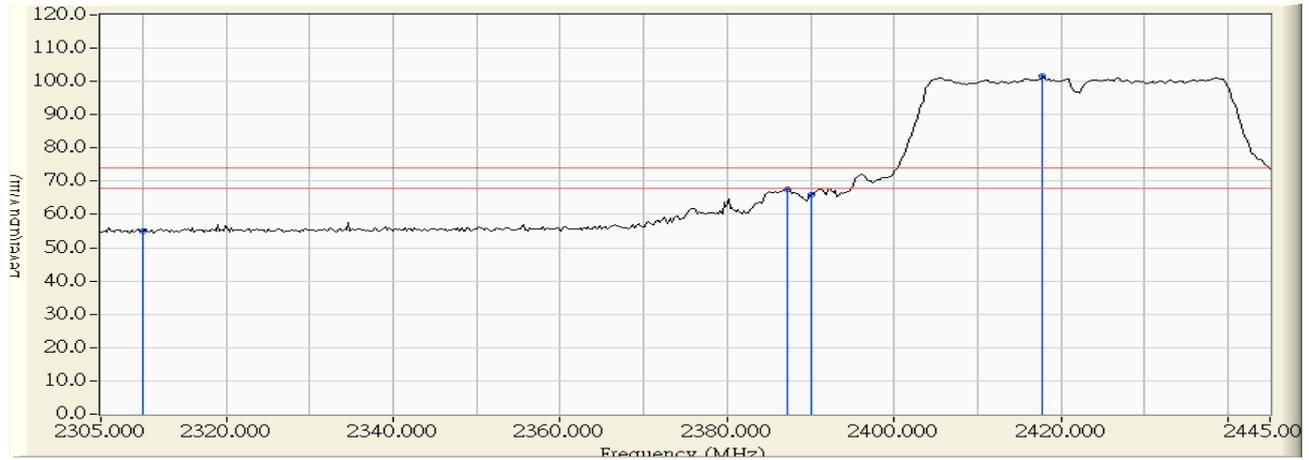


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 2454.500 | 31.557 | 55.102 | 86.659 | 32.659 | 54.000 | AVERAGE |
| 2 | | 2483.500 | 31.858 | 17.989 | 49.847 | -4.153 | 54.000 | AVERAGE |
| 3 | | 2483.600 | 31.859 | 17.875 | 49.734 | -4.266 | 54.000 | AVERAGE |
| 4 | | 2500.000 | 31.988 | 12.854 | 44.843 | -9.157 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/03 - 21:55 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz) 2422MHz |

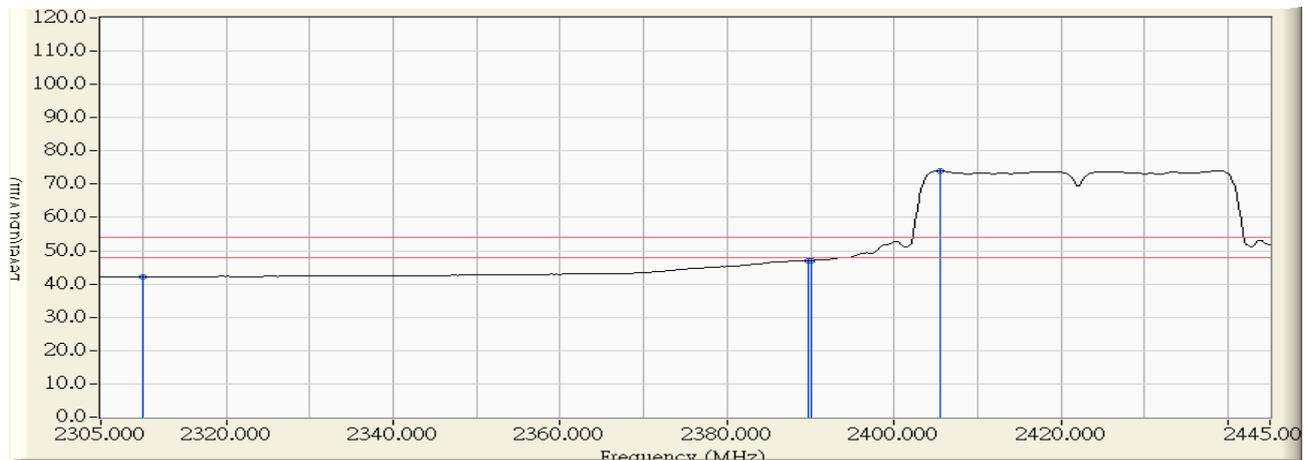


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 24.929 | 54.988 | -19.012 | 74.000 | PEAK |
| 2 | 2387.133 | 30.859 | 36.573 | 67.432 | -6.568 | 74.000 | PEAK |
| 3 | 2390.000 | 30.888 | 35.119 | 66.007 | -7.993 | 74.000 | PEAK |
| 4 | * 2417.700 | 31.176 | 70.351 | 101.527 | 27.527 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/03 - 21:56 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz) 2422MHz |

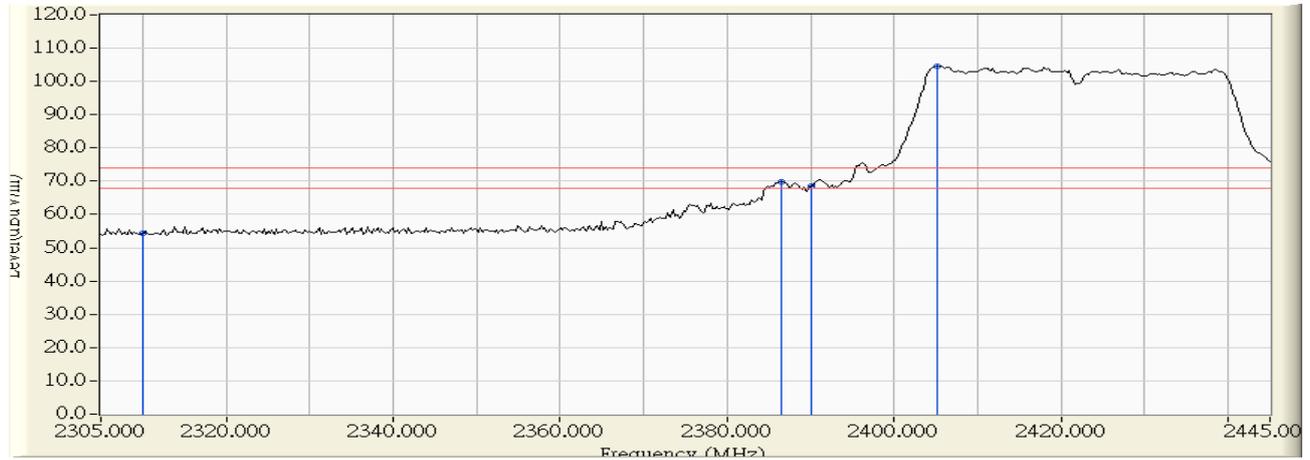


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 12.086 | 42.145 | -11.855 | 54.000 | AVERAGE |
| 2 | 2389.700 | 30.885 | 16.179 | 47.064 | -6.936 | 54.000 | AVERAGE |
| 3 | 2390.000 | 30.888 | 16.173 | 47.061 | -6.939 | 54.000 | AVERAGE |
| 4 | * 2405.567 | 31.050 | 42.945 | 73.995 | 19.995 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|--|
| Site : CB1 | Time : 2013/09/03 - 21:50 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz)_2422MHz_Index=17 |

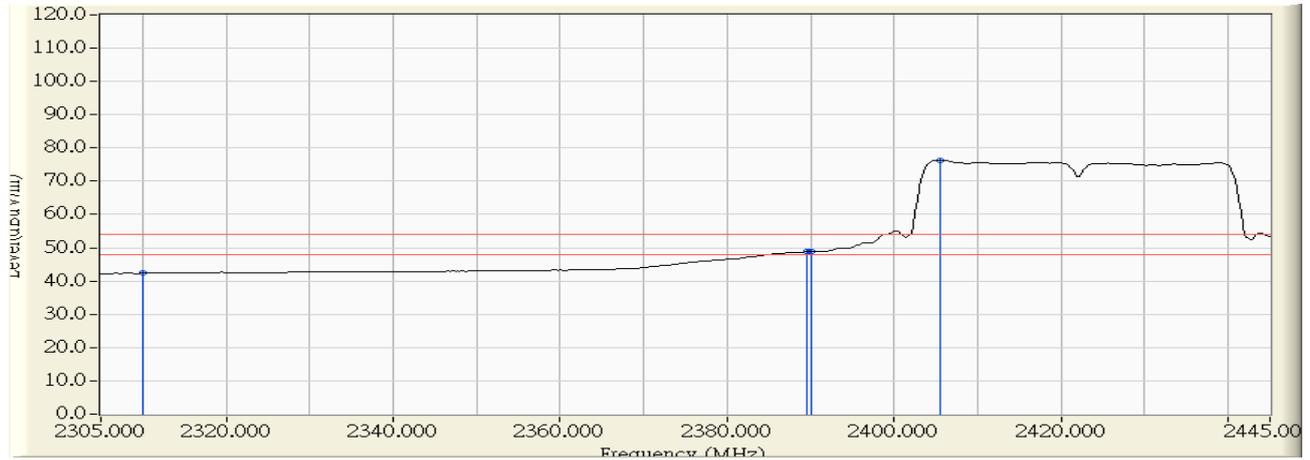


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 24.156 | 54.215 | -19.785 | 74.000 | PEAK |
| 2 | 2386.433 | 30.851 | 38.966 | 69.817 | -4.183 | 74.000 | PEAK |
| 3 | 2390.000 | 30.888 | 37.539 | 68.427 | -5.573 | 74.000 | PEAK |
| 4 | * 2405.100 | 31.045 | 73.550 | 104.595 | 30.595 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|--|
| Site : CB1 | Time : 2013/09/03 - 21:51 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz)_2422MHz_Index=17 |

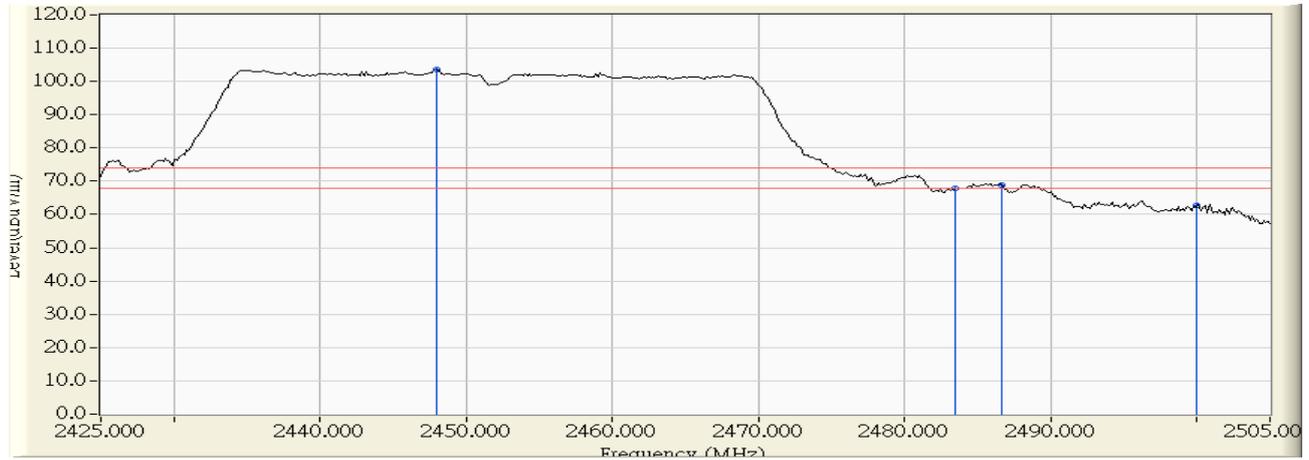


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 2310.000 | 30.059 | 12.300 | 42.359 | -11.641 | 54.000 | AVERAGE |
| 2 | 2389.467 | 30.883 | 17.863 | 48.746 | -5.254 | 54.000 | AVERAGE |
| 3 | 2390.000 | 30.888 | 17.912 | 48.800 | -5.200 | 54.000 | AVERAGE |
| 4 | * 2405.567 | 31.050 | 45.305 | 76.355 | 22.355 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/03 - 22:23 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz) 2452MHz |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 2447.933 | 31.489 | 71.964 | 103.453 | 29.453 | 74.000 | PEAK |
| 2 | | 2483.500 | 31.858 | 35.884 | 67.742 | -6.258 | 74.000 | PEAK |
| 3 | | 2486.600 | 31.890 | 36.872 | 68.762 | -5.238 | 74.000 | PEAK |
| 4 | | 2500.000 | 31.988 | 30.637 | 62.626 | -11.374 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|-------------------------------|
| Site : CB1 | Time : 2013/09/03 - 22:24 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz) 2452MHz |

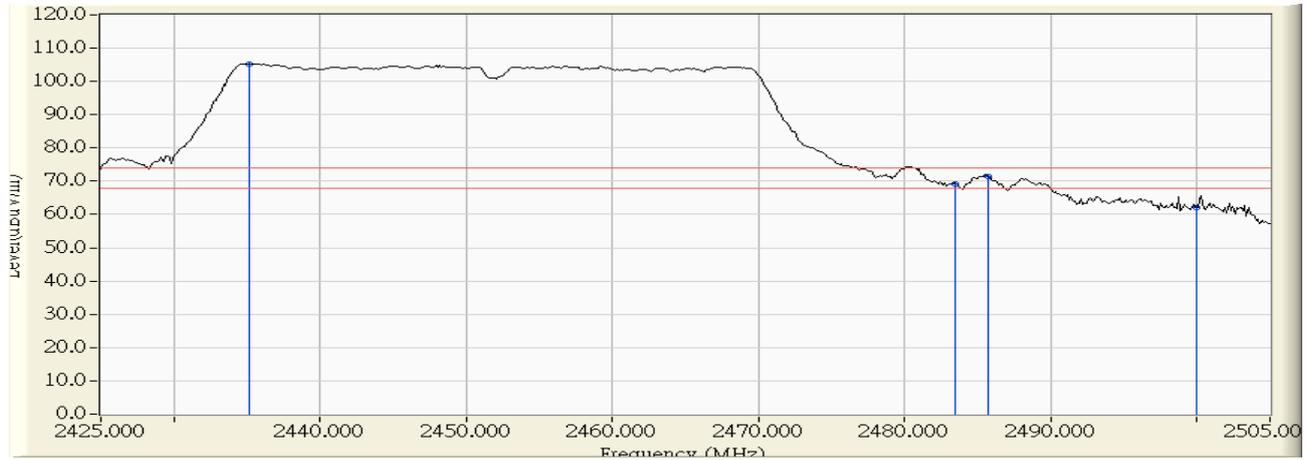


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|--------------------|------------------------|-------------------------|---------------------------|----------------|-------------------|---------------|
| 1 | * | 2435.400 | 31.359 | 44.164 | 75.523 | 21.523 | 54.000 | AVERAGE |
| 2 | | 2483.500 | 31.858 | 16.222 | 48.080 | -5.920 | 54.000 | AVERAGE |
| 3 | | 2483.667 | 31.860 | 16.151 | 48.011 | -5.989 | 54.000 | AVERAGE |
| 4 | | 2500.000 | 31.988 | 12.826 | 44.815 | -9.185 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|--|
| Site : CB1 | Time : 2013/09/03 - 22:18 |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz)_2452MHz_Index=19 |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 2435.133 | 31.356 | 73.962 | 105.318 | 31.318 | 74.000 | PEAK |
| 2 | | 2483.500 | 31.858 | 37.339 | 69.197 | -4.803 | 74.000 | PEAK |
| 3 | | 2485.667 | 31.880 | 39.442 | 71.322 | -2.678 | 74.000 | PEAK |
| 4 | | 2500.000 | 31.988 | 30.160 | 62.149 | -11.851 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|--|
| Site : CB1 | Time : 2013/09/03 - 22:19 |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6 |
| Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL | Power : Ac 120V/60Hz |
| EUT : RP-N14 Wireless N-300 Range Extender | Note : 802.11n(40MHz)_2452MHz_Index=19 |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 2435.533 | 31.361 | 45.484 | 76.845 | 22.845 | 54.000 | AVERAGE |
| 2 | | 2483.500 | 31.858 | 17.863 | 49.721 | -4.279 | 54.000 | AVERAGE |
| 3 | | 2483.667 | 31.860 | 17.754 | 49.614 | -4.386 | 54.000 | AVERAGE |
| 4 | | 2500.000 | 31.988 | 13.919 | 45.908 | -8.092 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

7. Occupied Bandwidth

7.1. Test Equipment

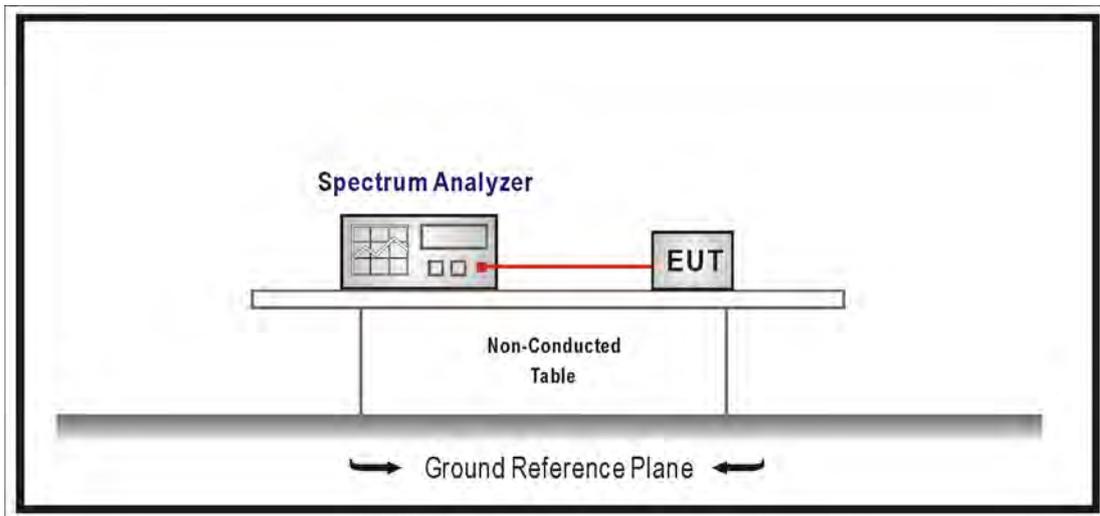
The following test equipments are used during the test:

Occupied Bandwidth / SR7

| Instrument | Manufacturer | Model No. | Serial No | Next Cal. Date |
|-------------------|--------------|------------|------------|----------------|
| Spectrum Analyzer | Agilent | N9010A-EXA | US47140172 | 2014/08/05 |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 1% of EBW, Span greater than RBW.

7.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2012

7.6. Uncertainty

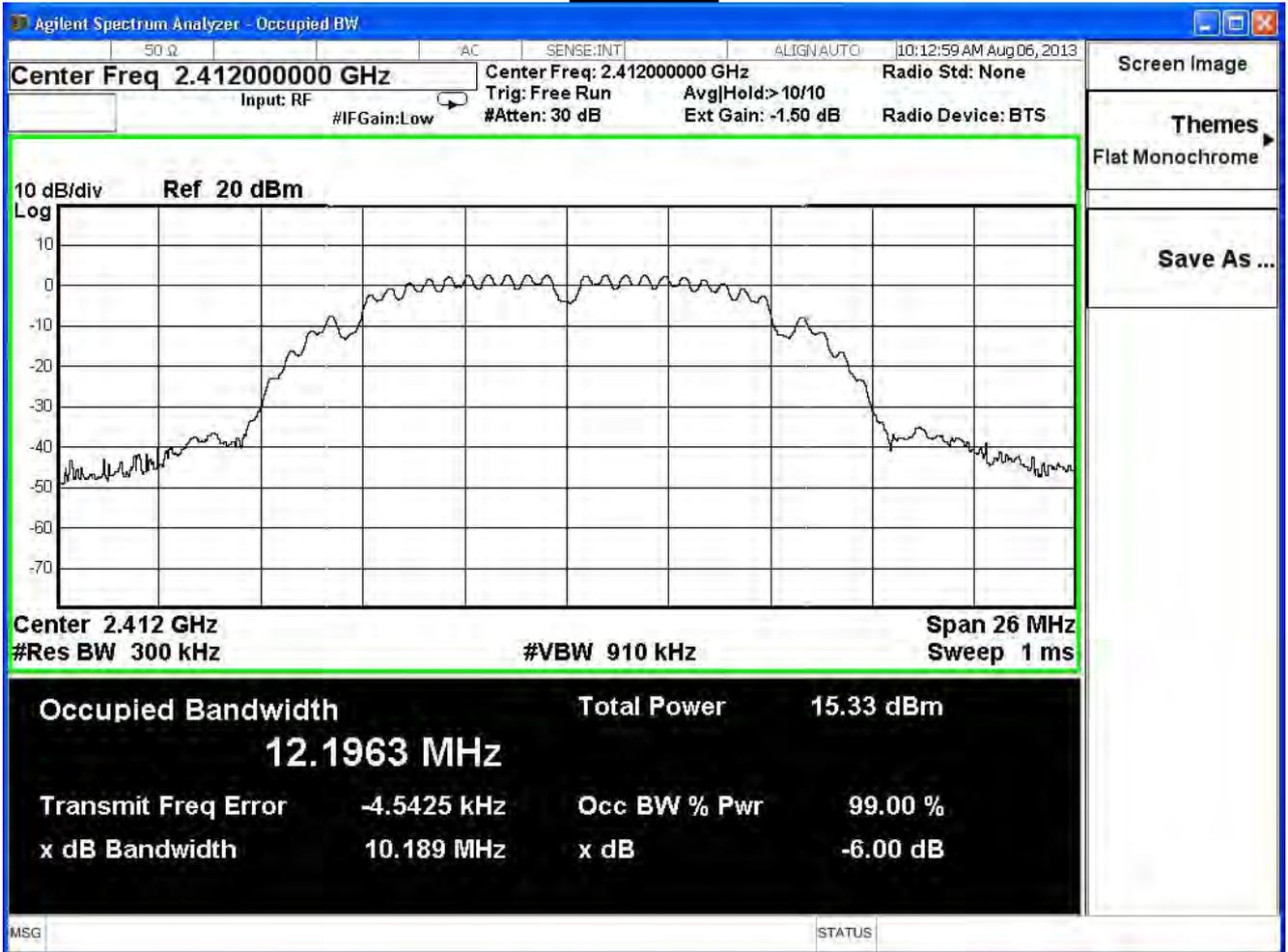
The measurement uncertainty is defined as $\pm 150\text{Hz}$

7.7. Test Result

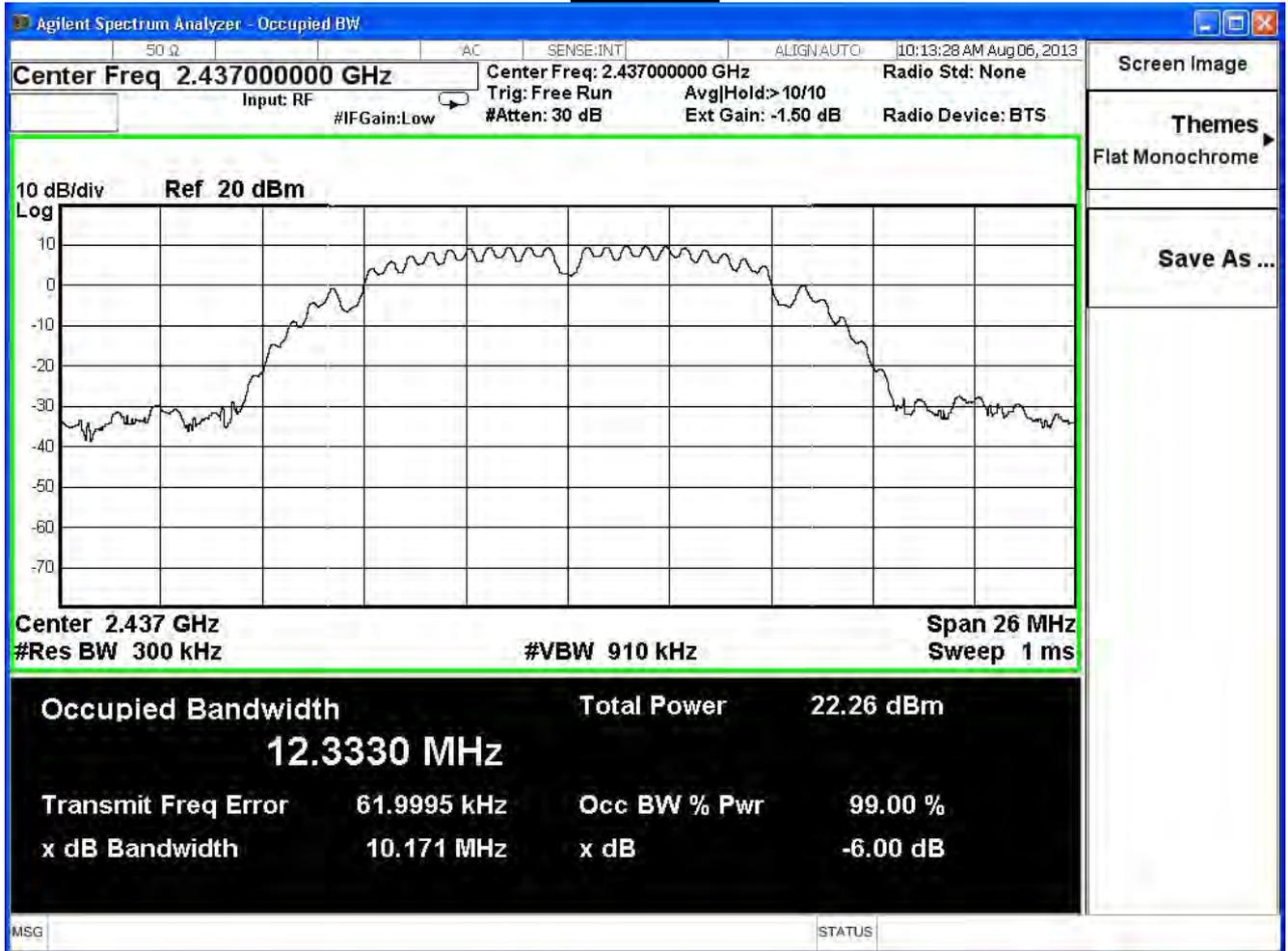
| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/08/06 | Test Site | SR7 |

| 802.11 b | | | | |
|-------------|-----------------|-------------------------|----------------------|--------|
| Channel No. | Frequency (MHz) | Measurement Level (MHz) | Required Limit (MHz) | Result |
| 1 | 2412 | 10.18 | ≥ 0.5 | Pass |
| 6 | 2437 | 10.17 | ≥ 0.5 | Pass |
| 11 | 2462 | 10.18 | ≥ 0.5 | Pass |

Channel 1



Channel 6



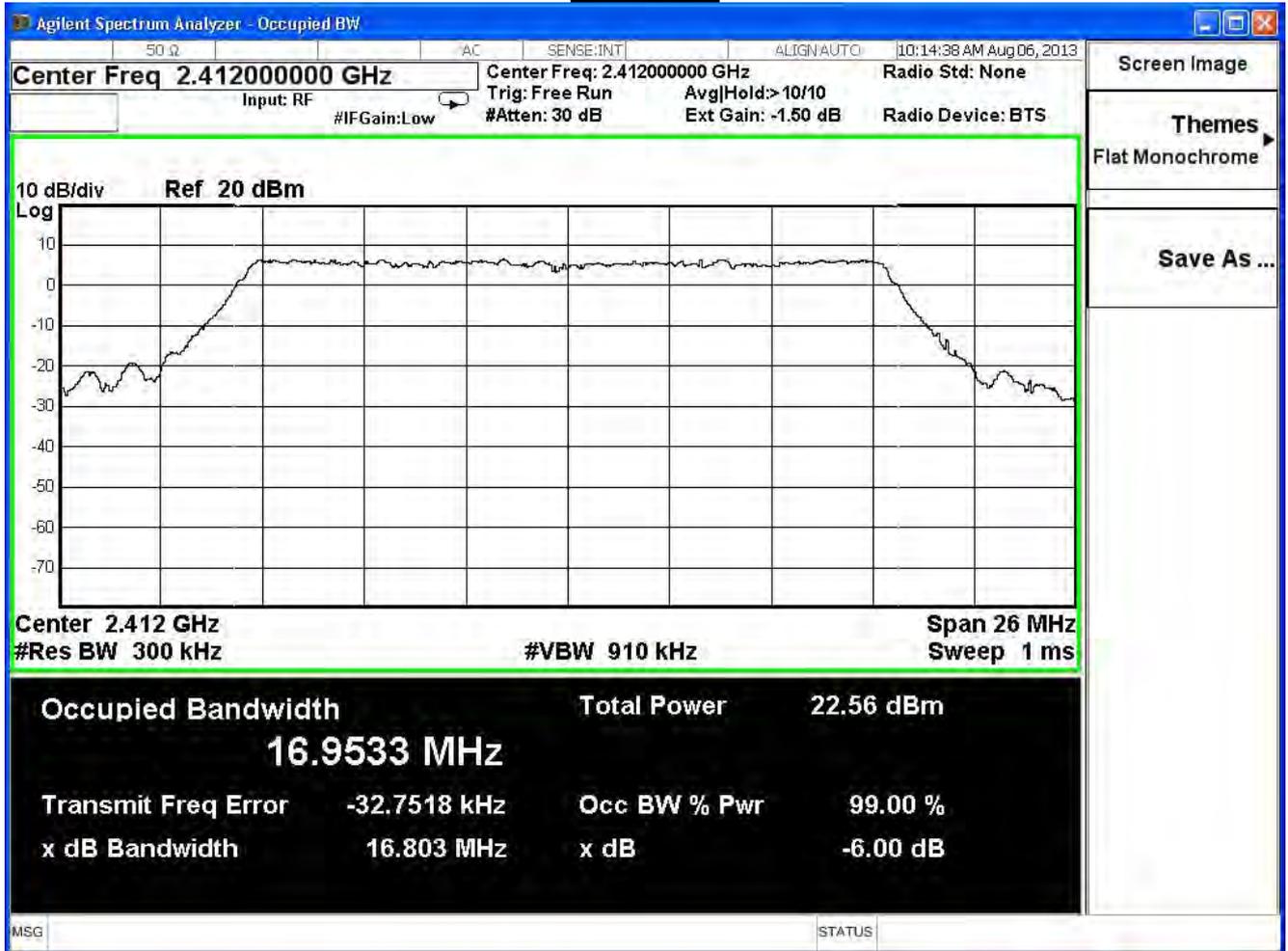
Channel 11



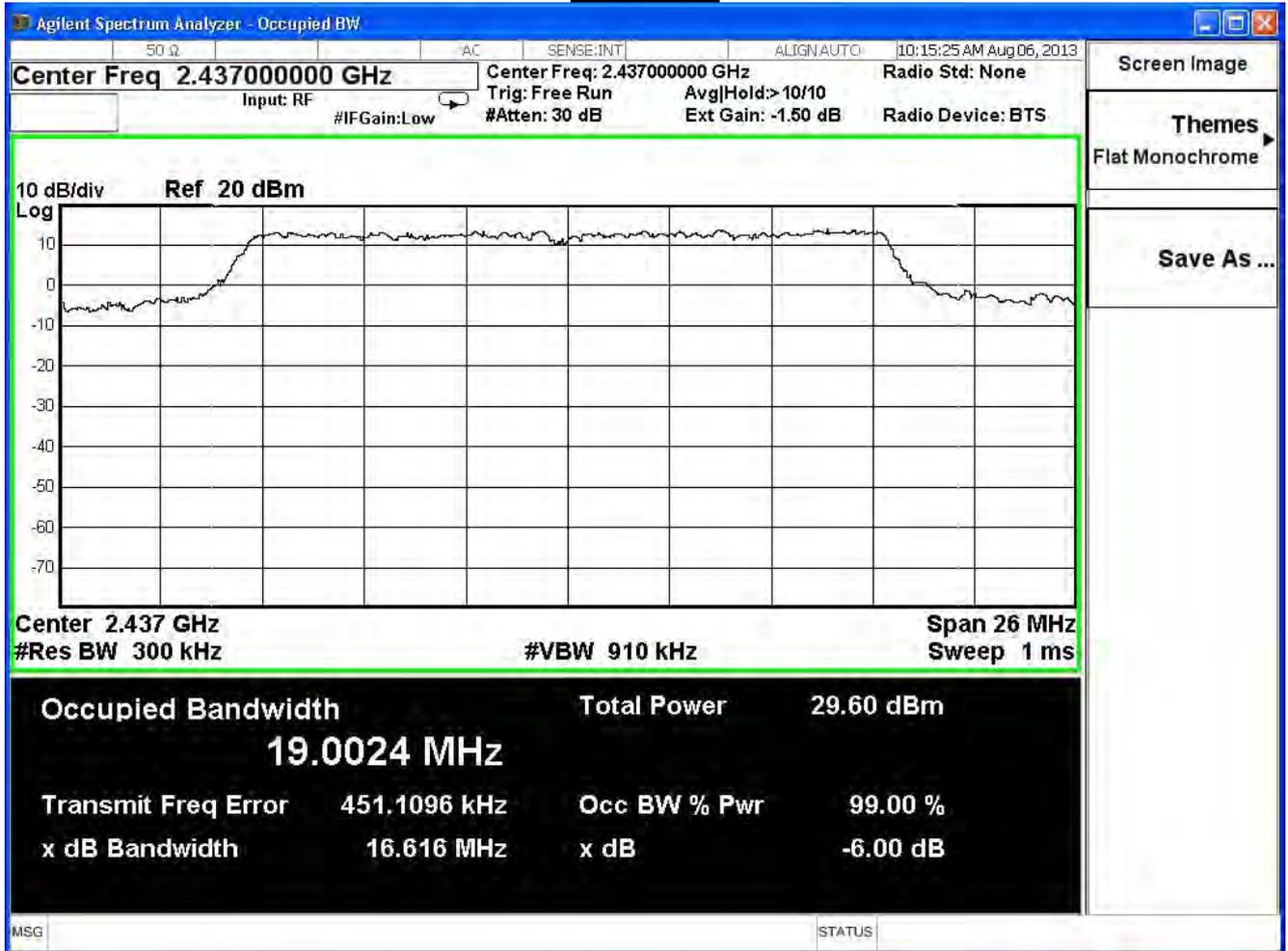
| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/08/06 | Test Site | SR7 |

| IEEE 802.11g | | | | |
|--------------|-----------------|-------------------------|----------------------|--------|
| Channel No. | Frequency (MHz) | Measurement Level (MHz) | Required Limit (MHz) | Result |
| 1 | 2412 | 16.80 | $\cong 0.5$ | Pass |
| 6 | 2437 | 16.61 | $\cong 0.5$ | Pass |
| 11 | 2462 | 16.63 | $\cong 0.5$ | Pass |

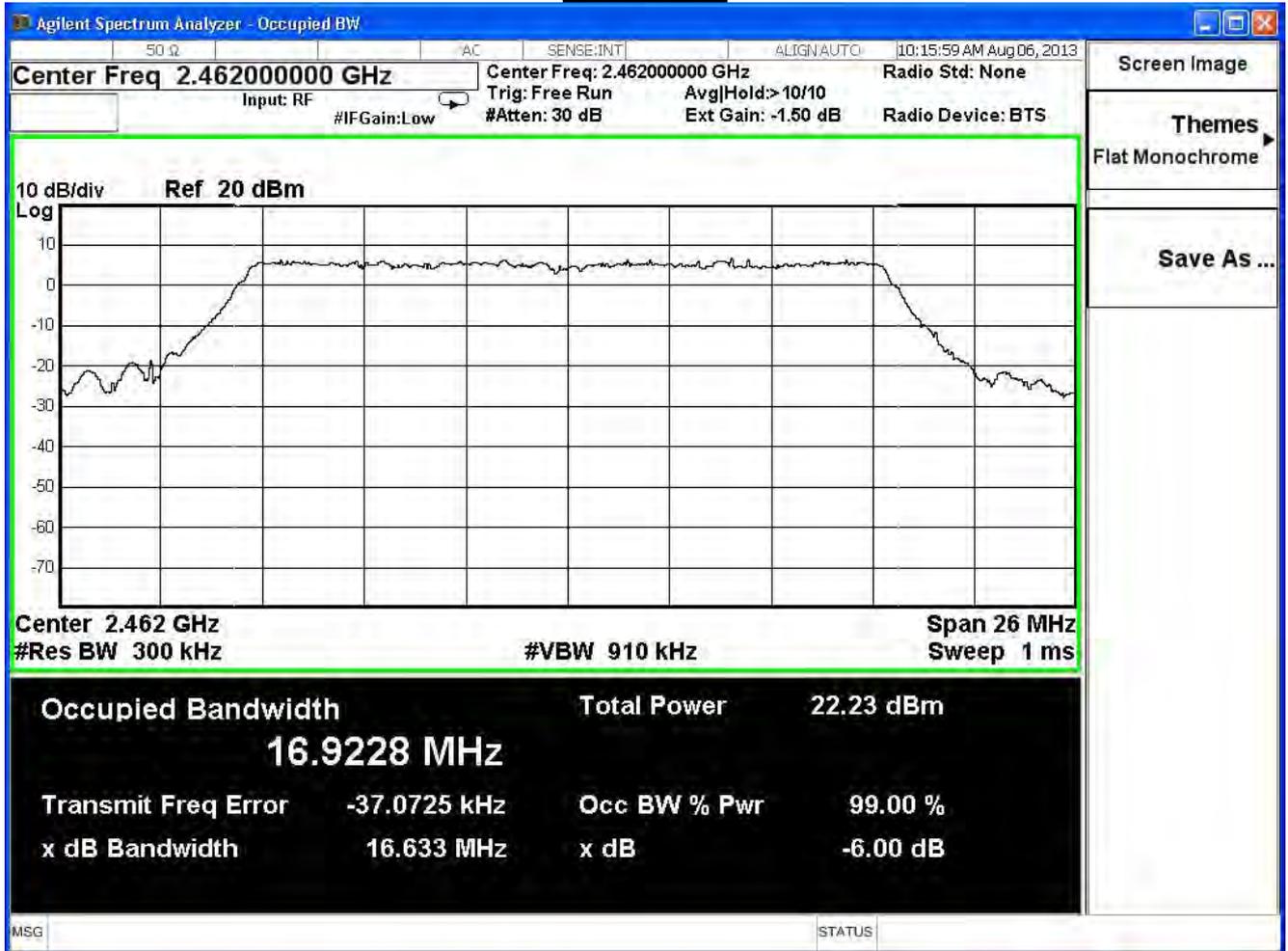
Channel 1



Channel 6



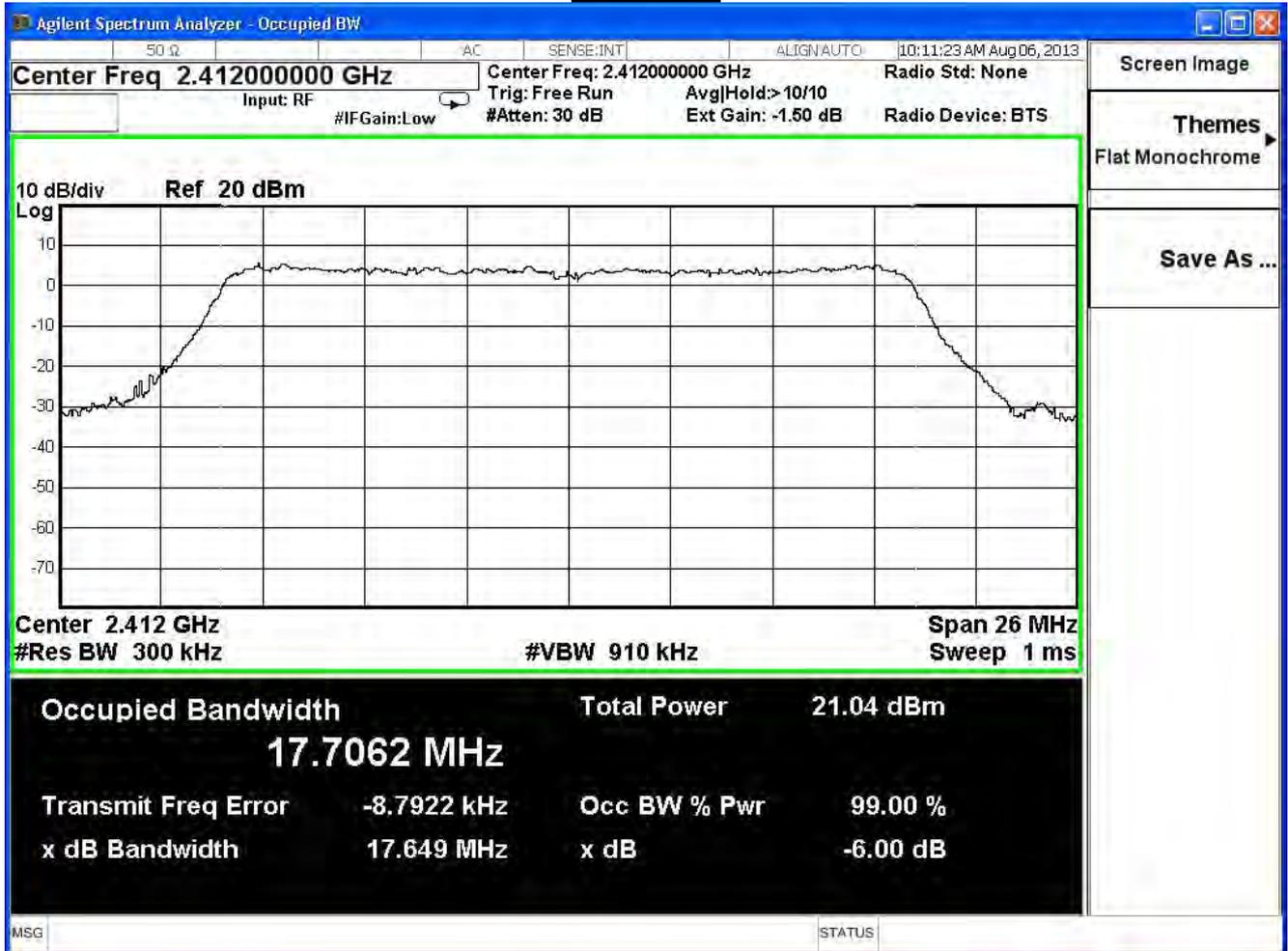
Channel 11



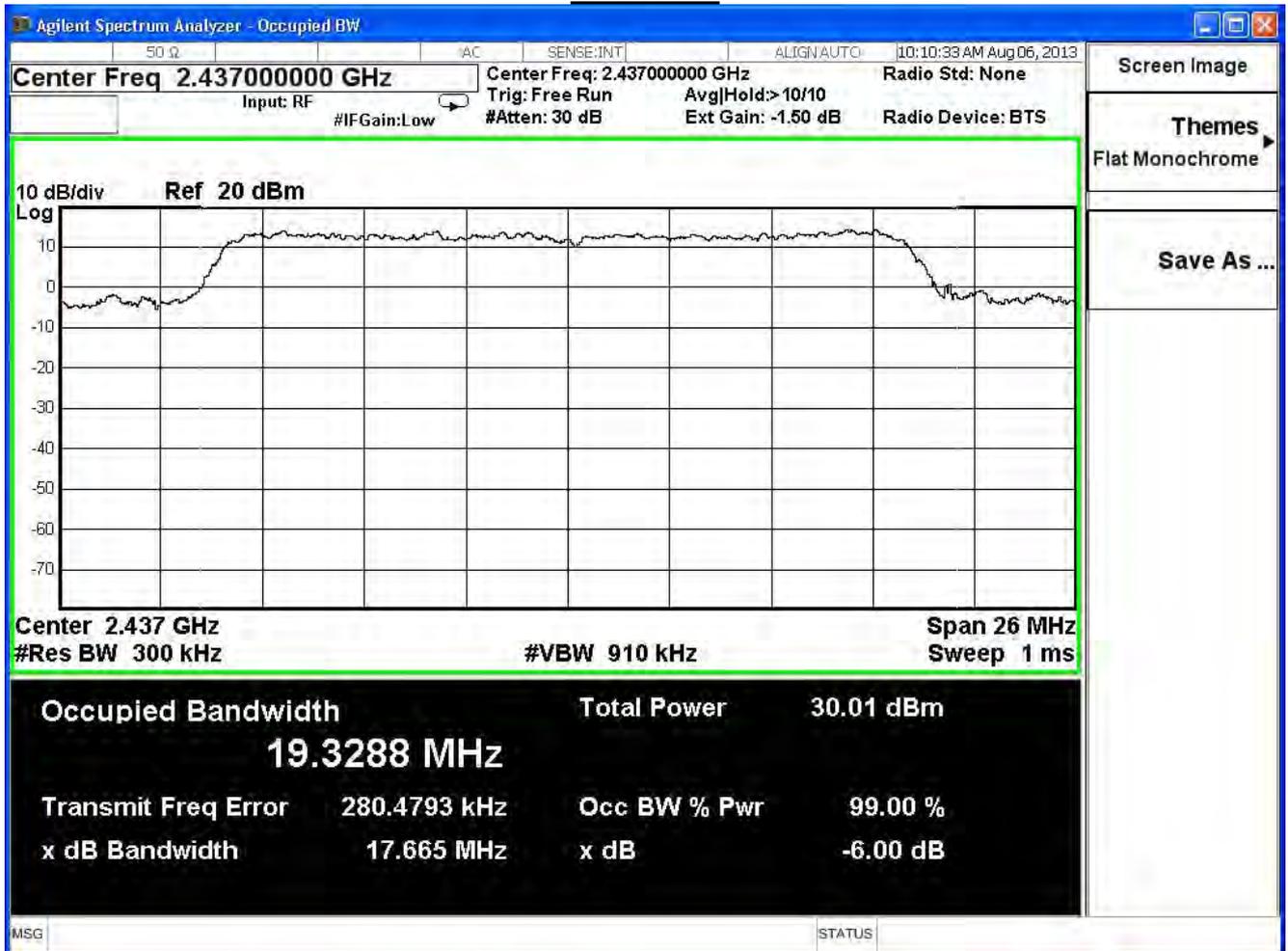
| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/08/06 | Test Site | SR7 |

| IEEE 802.11n (20MHz)(ANT 0) | | | | |
|-----------------------------|-----------------|-------------------------|----------------------|--------|
| Channel No. | Frequency (MHz) | Measurement Level (MHz) | Required Limit (MHz) | Result |
| 1 | 2412 | 17.64 | ≥ 0.5 | Pass |
| 6 | 2437 | 17.66 | ≥ 0.5 | Pass |
| 11 | 2462 | 17.64 | ≥ 0.5 | Pass |

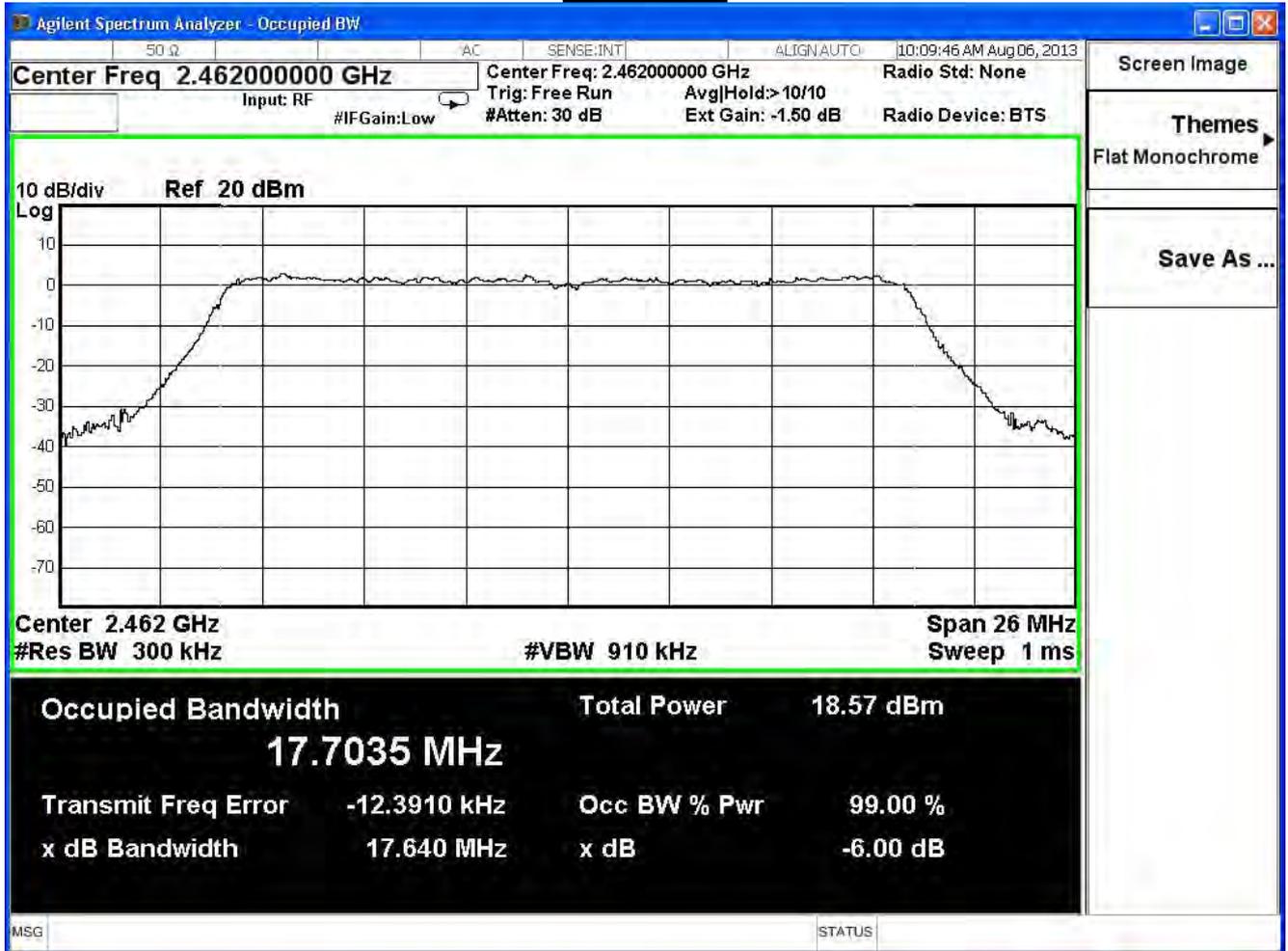
Channel 1



Channel 6



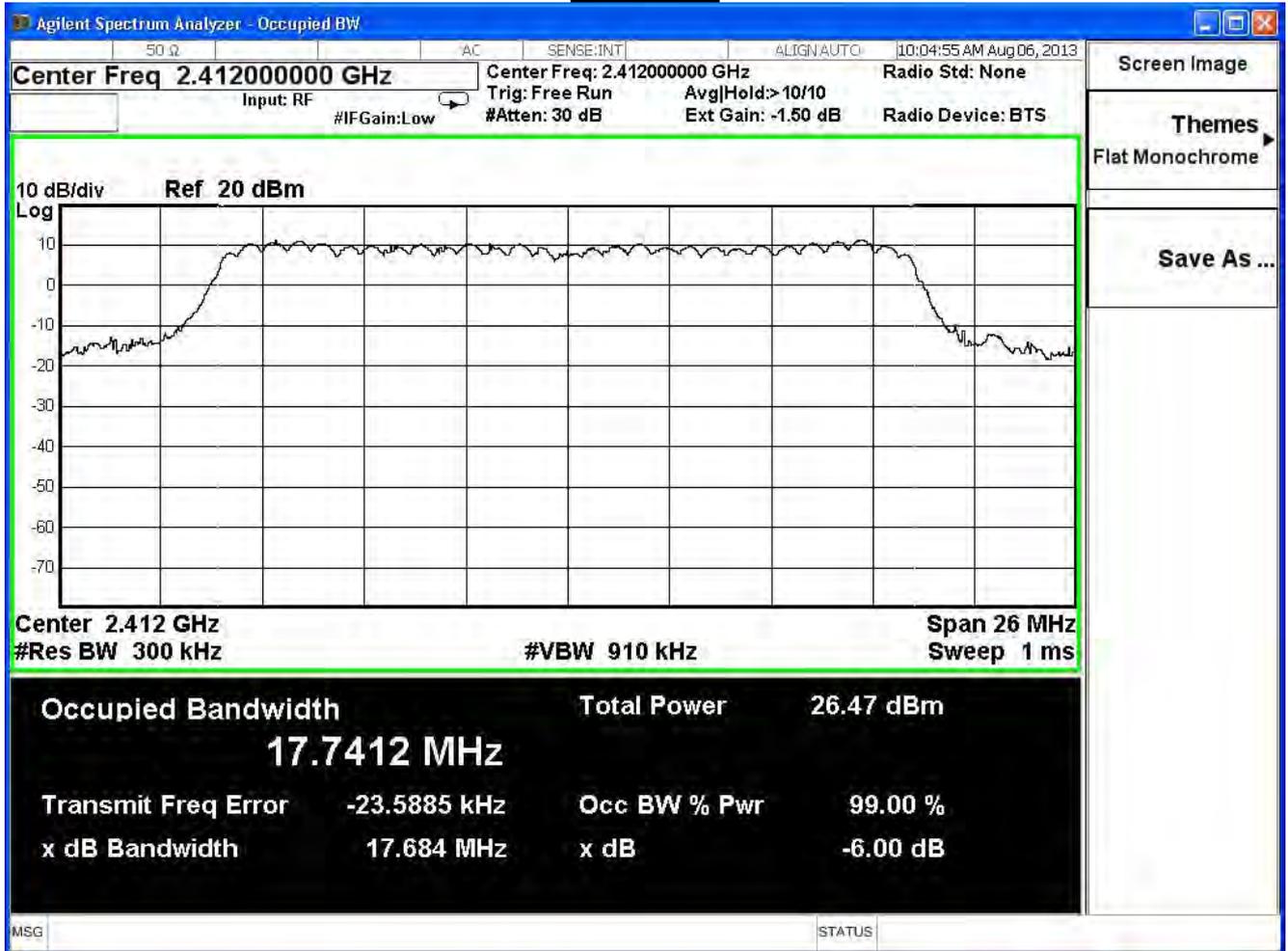
Channel 11



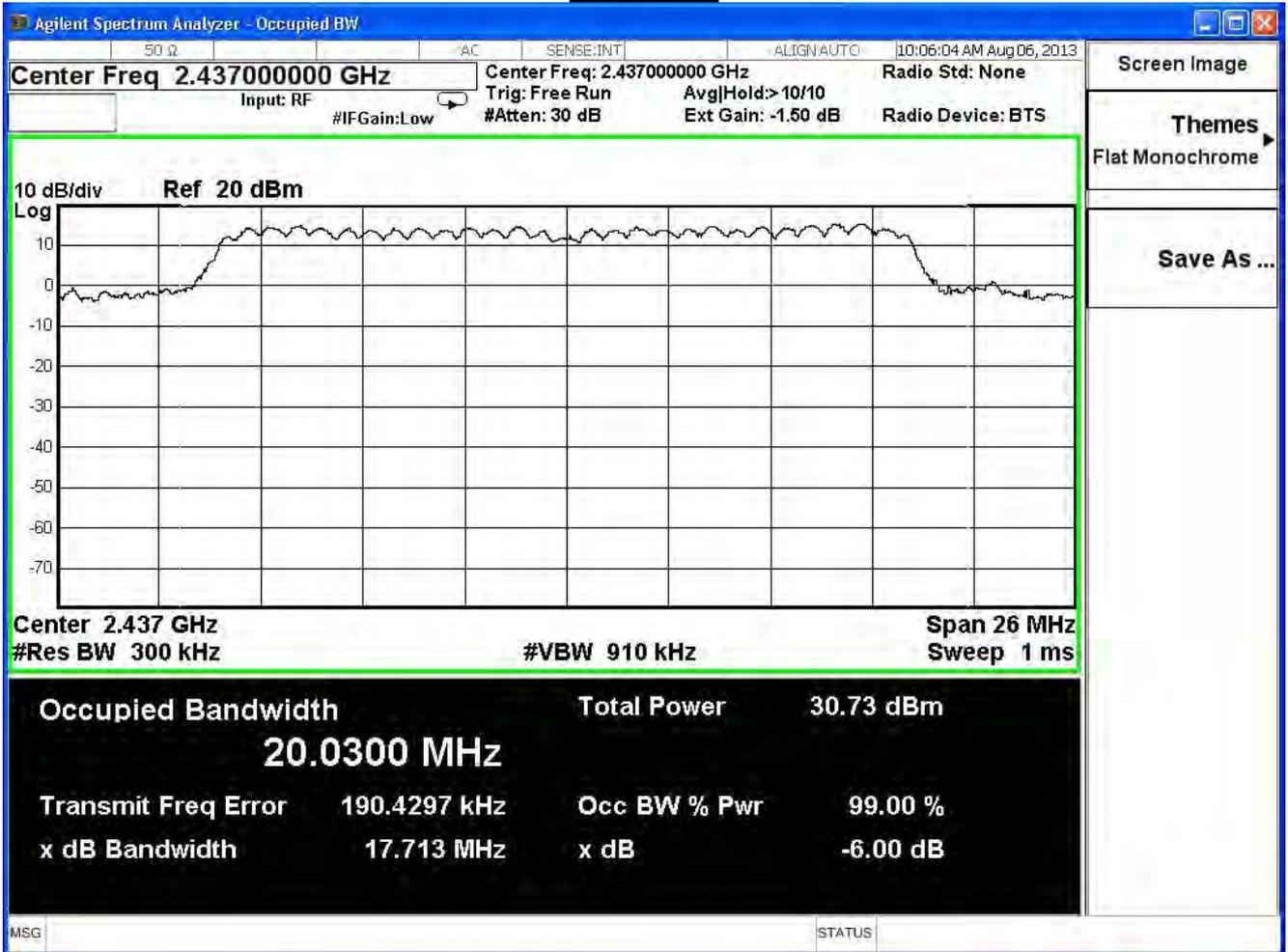
| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/08/06 | Test Site | SR7 |

| IEEE 802.11n (20MHz)(ANT 1) | | | | |
|-----------------------------|-----------------|-------------------------|----------------------|--------|
| Channel No. | Frequency (MHz) | Measurement Level (MHz) | Required Limit (MHz) | Result |
| 1 | 2412 | 17.68 | ≥ 0.5 | Pass |
| 6 | 2437 | 17.71 | ≥ 0.5 | Pass |
| 11 | 2462 | 17.67 | ≥ 0.5 | Pass |

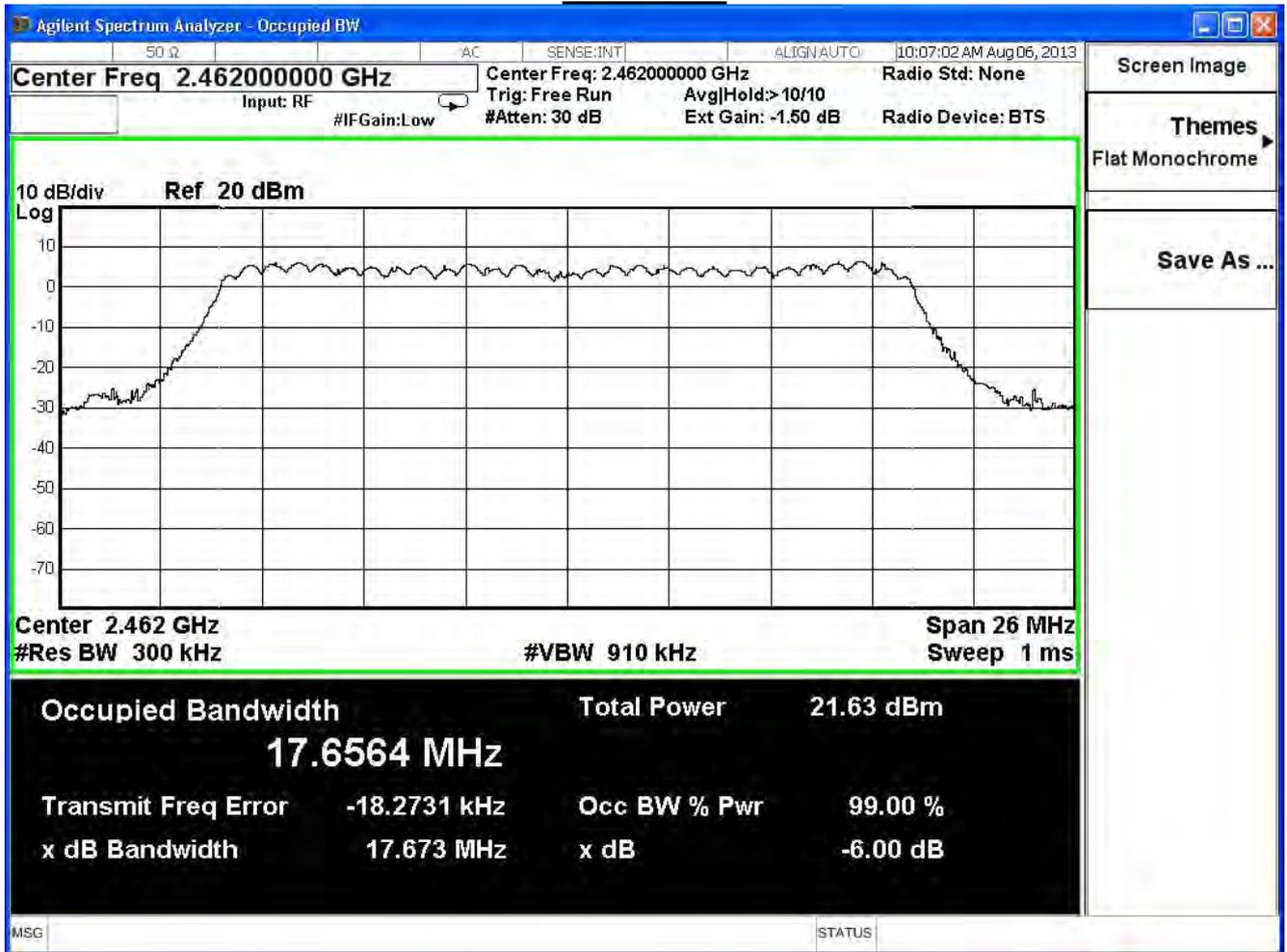
Channel 1



Channel 6



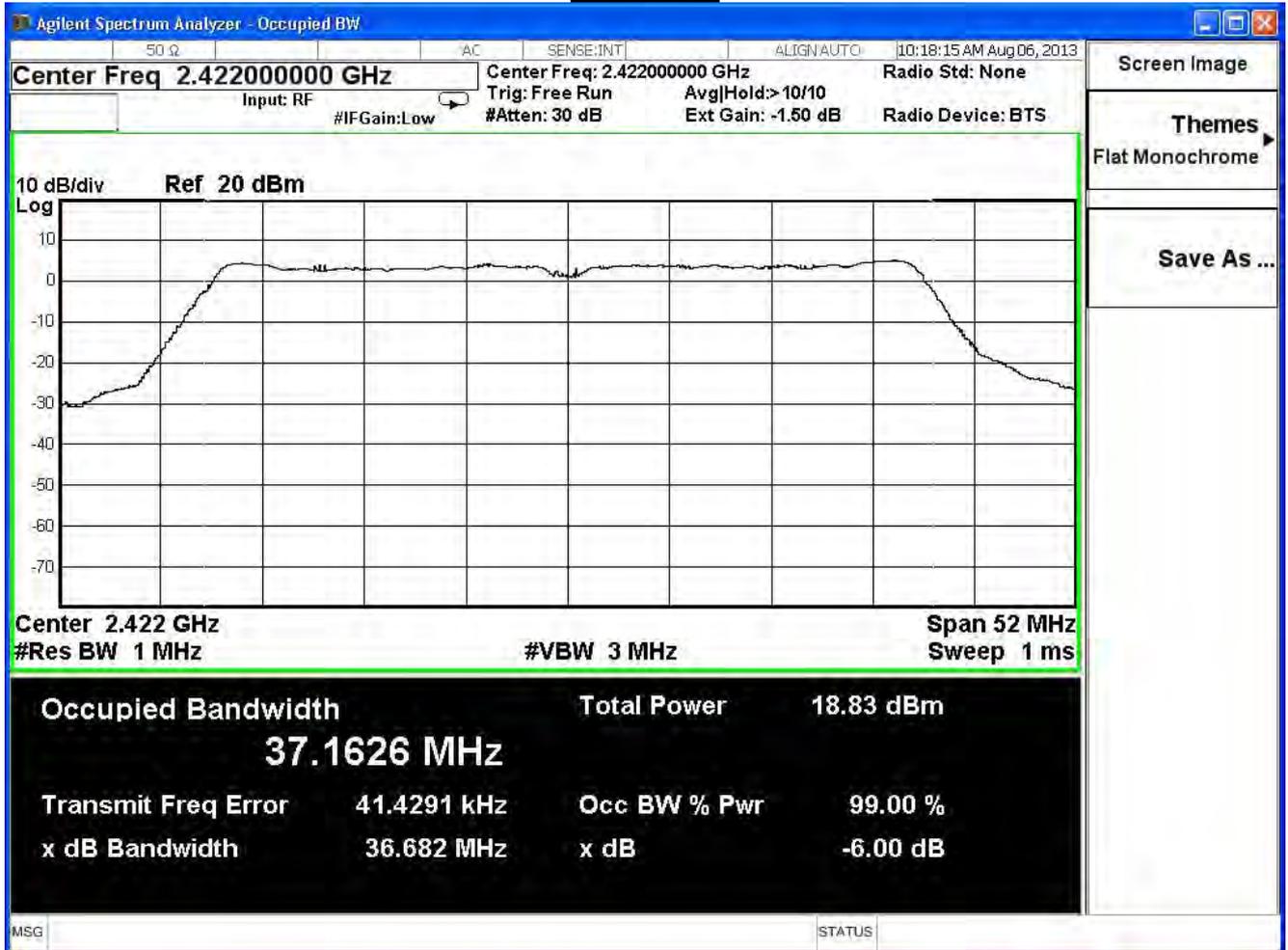
Channel 11



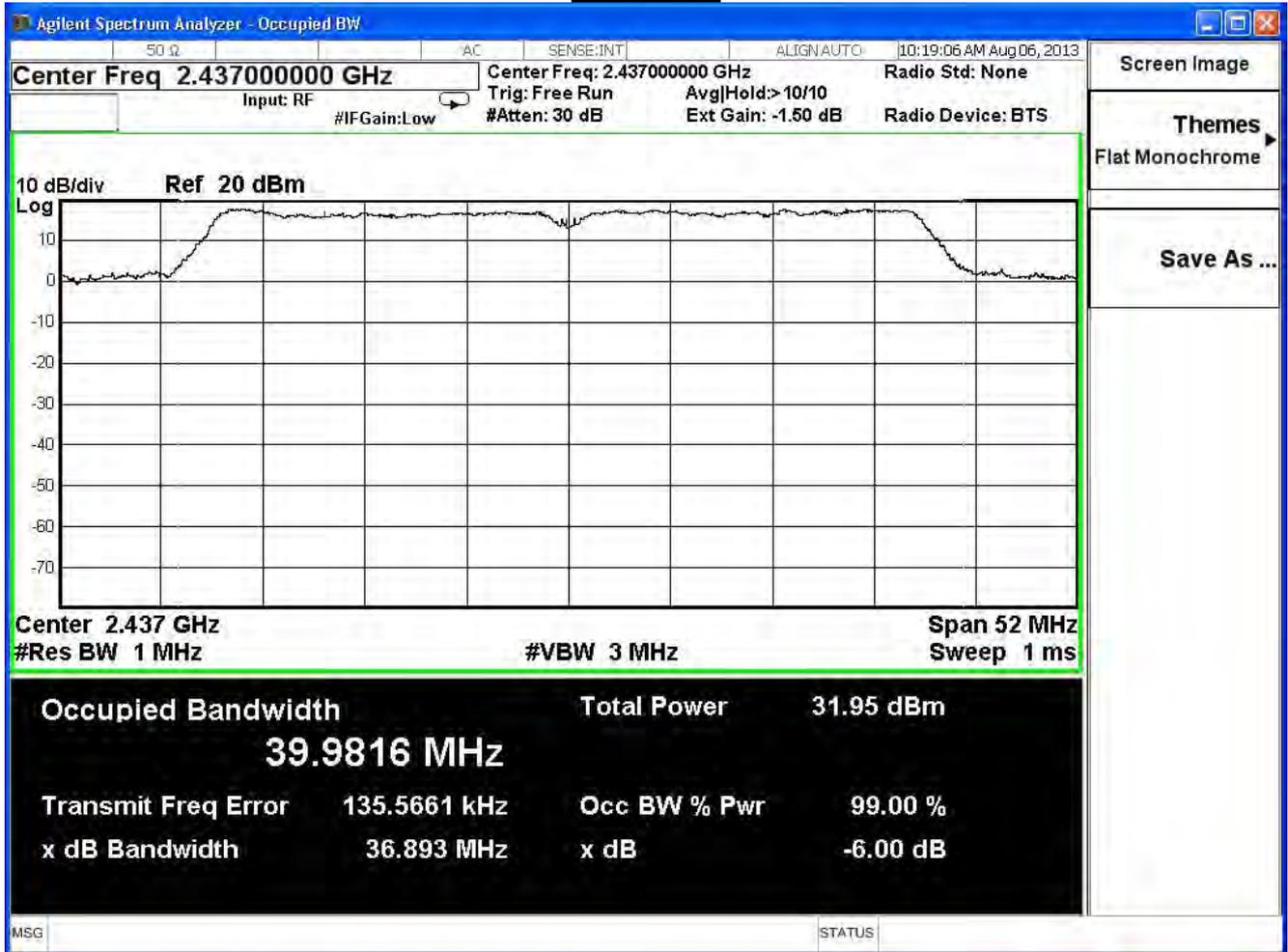
| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/08/06 | Test Site | SR7 |

| IEEE 802.11n (40MHz)(ANT 0) | | | | |
|-----------------------------|-----------------|-------------------------|----------------------|--------|
| Channel No. | Frequency (MHz) | Measurement Level (MHz) | Required Limit (MHz) | Result |
| 3 | 2422 | 36.68 | ≥ 0.5 | Pass |
| 6 | 2437 | 36.89 | ≥ 0.5 | Pass |
| 9 | 2452 | 36.33 | ≥ 0.5 | Pass |

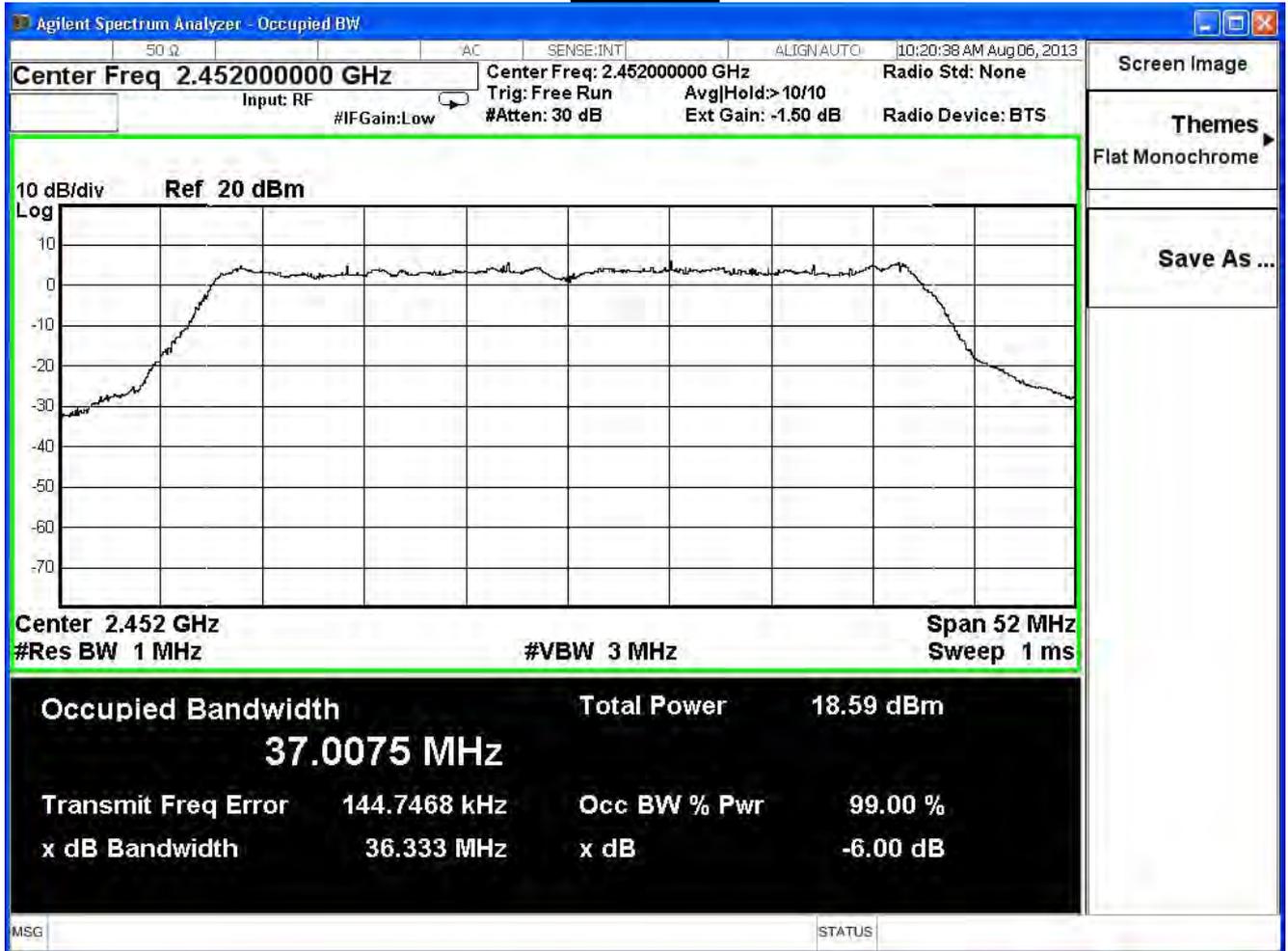
Channel 3



Channel 6



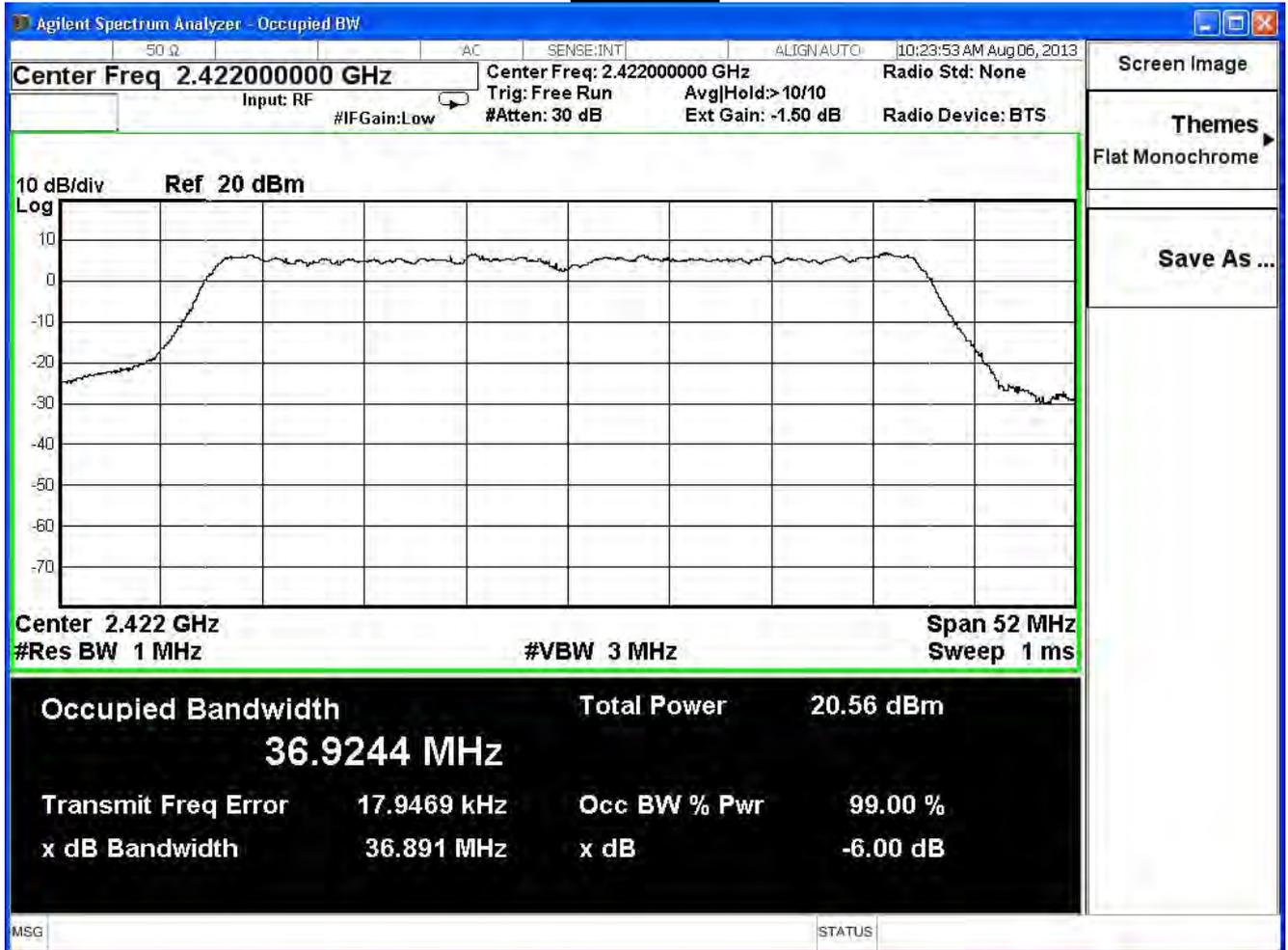
Channel 9



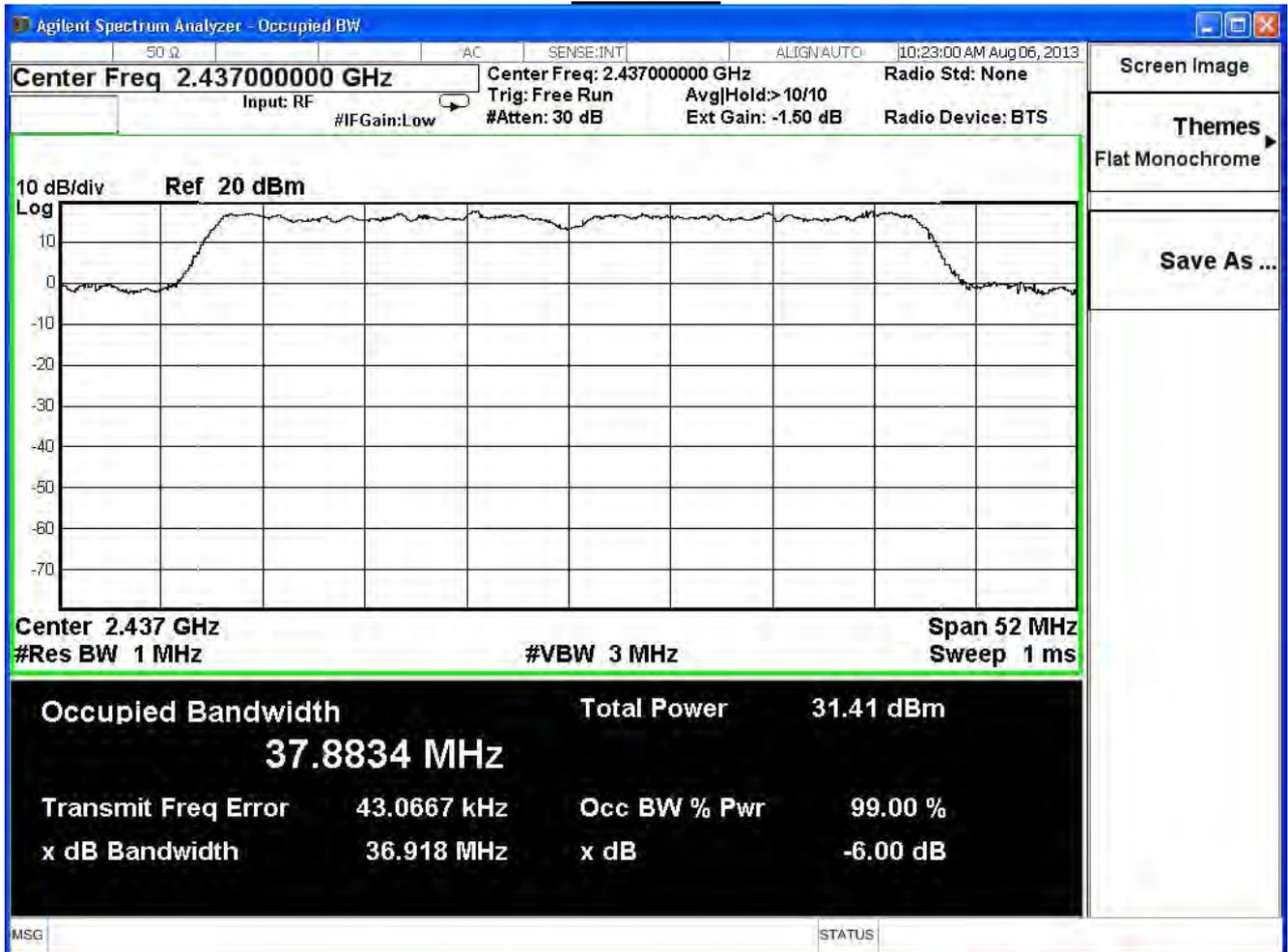
| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/08/06 | Test Site | SR7 |

| IEEE 802.11n (40MHz)(ANT 1) | | | | |
|-----------------------------|-----------------|-------------------------|----------------------|--------|
| Channel No. | Frequency (MHz) | Measurement Level (MHz) | Required Limit (MHz) | Result |
| 3 | 2422 | 36.89 | ≥ 0.5 | Pass |
| 6 | 2437 | 36.91 | ≥ 0.5 | Pass |
| 9 | 2452 | 36.63 | ≥ 0.5 | Pass |

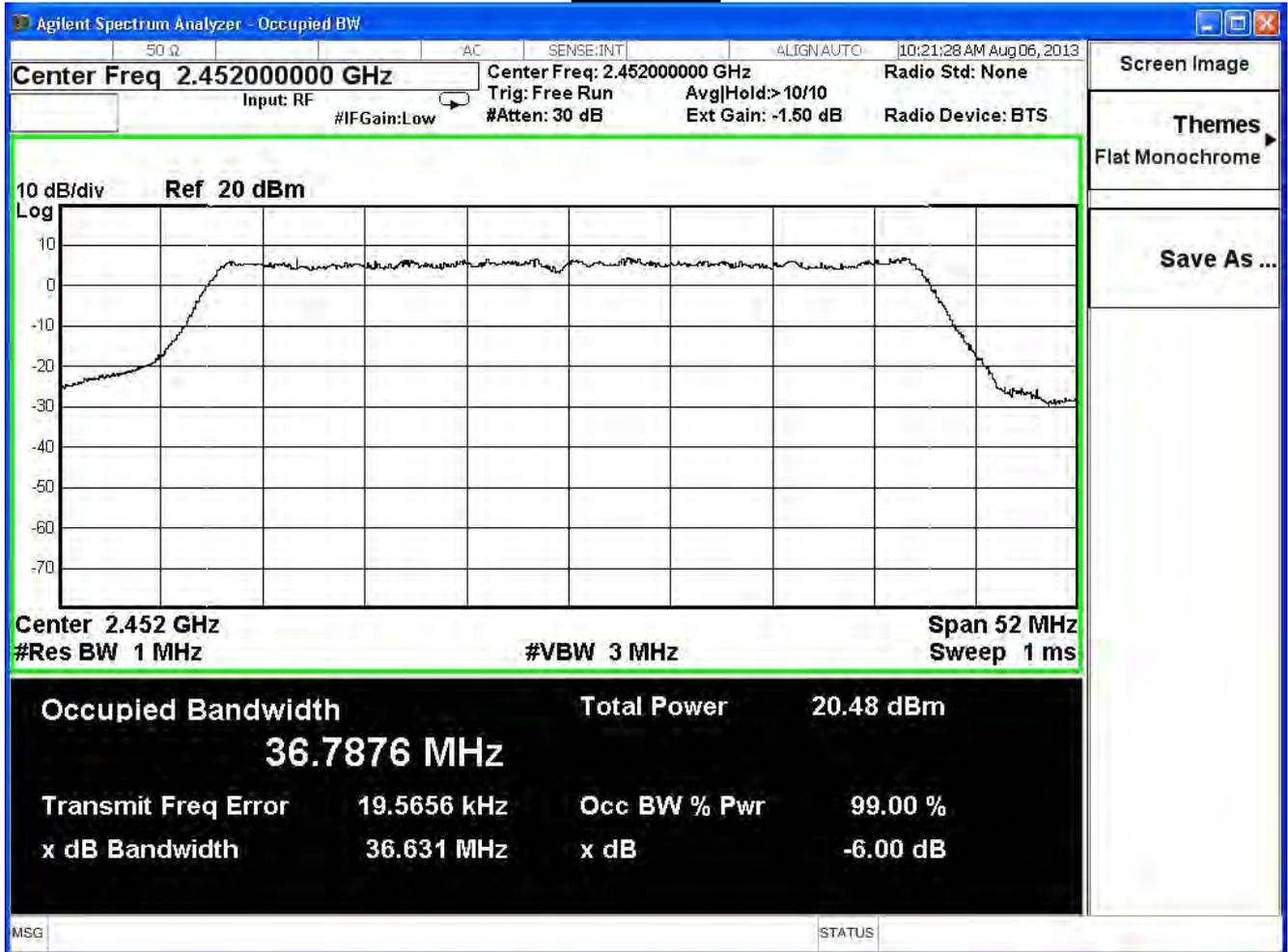
Channel 3



Channel 6



Channel 9



8. Power Density

8.1. Test Equipment

The following test equipment is used during the test:

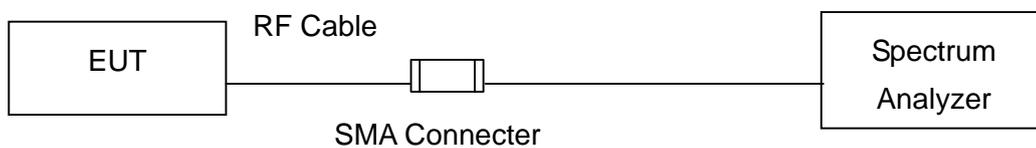
Power Density / SR7

| Instrument | Manufacturer | Model No. | Serial No | Next Cal. Date |
|-------------------|--------------|------------|------------|----------------|
| Spectrum Analyzer | Agilent | N9010A-EXA | US47140172 | 2014/08/05 |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

8.2. Test Setup

IEEE 802.11 b / g / a / n (20M / 40M) MODE



8.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

8.4. Test Procedures

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 100 kHz, Set VBW= 300 kHz, Sweep time=Auto, Set detector=Peak detector

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2012

8.6. Uncertainty

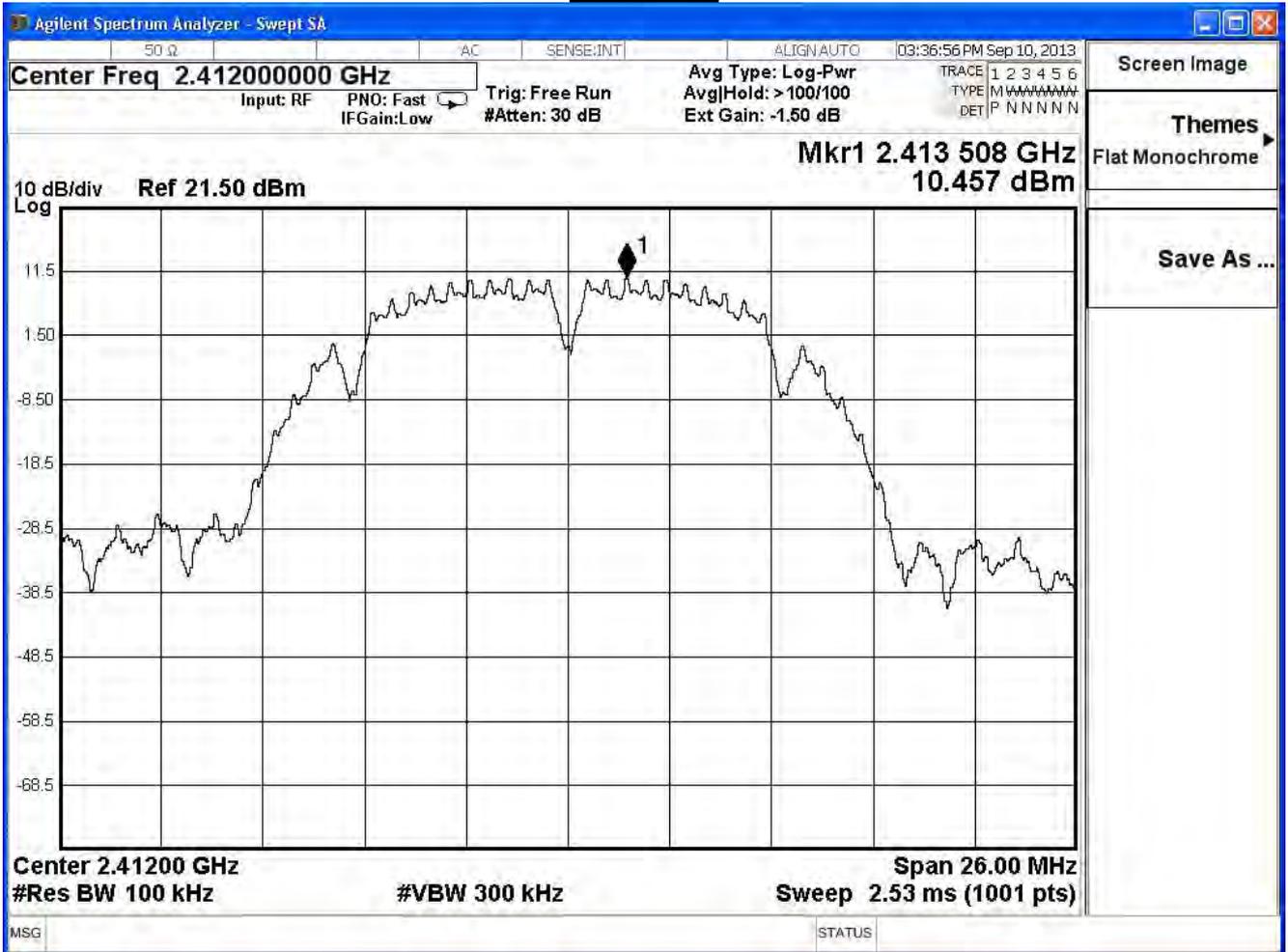
The measurement uncertainty is defined as ± 1.27 dB.

8.7. Test Result

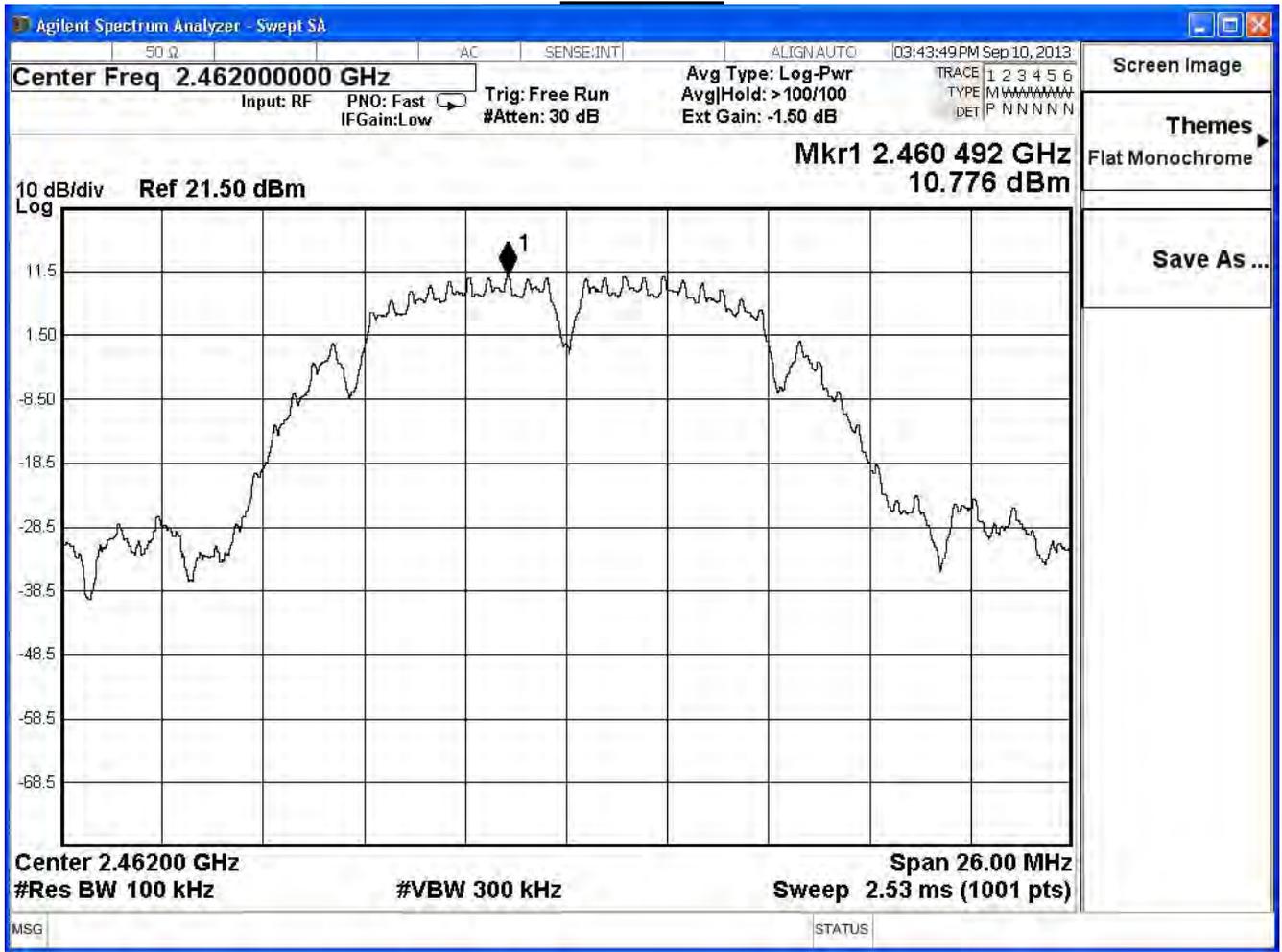
| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Power Density | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

| IEEE 802.11b | | | | | |
|--------------|-----------------|---------------------|---------------------|-------------|--------|
| Channel No. | Frequency (MHz) | Reading Level (dBm) | Measure Level (dBm) | Limit (dBm) | Result |
| 1 | 2412 | 10.46 | -4.74 | ≤ 8 | Pass |
| 6 | 2437 | 14.60 | -0.60 | ≤ 8 | Pass |
| 11 | 2462 | 10.78 | -4.42 | ≤ 8 | Pass |

Channel 1



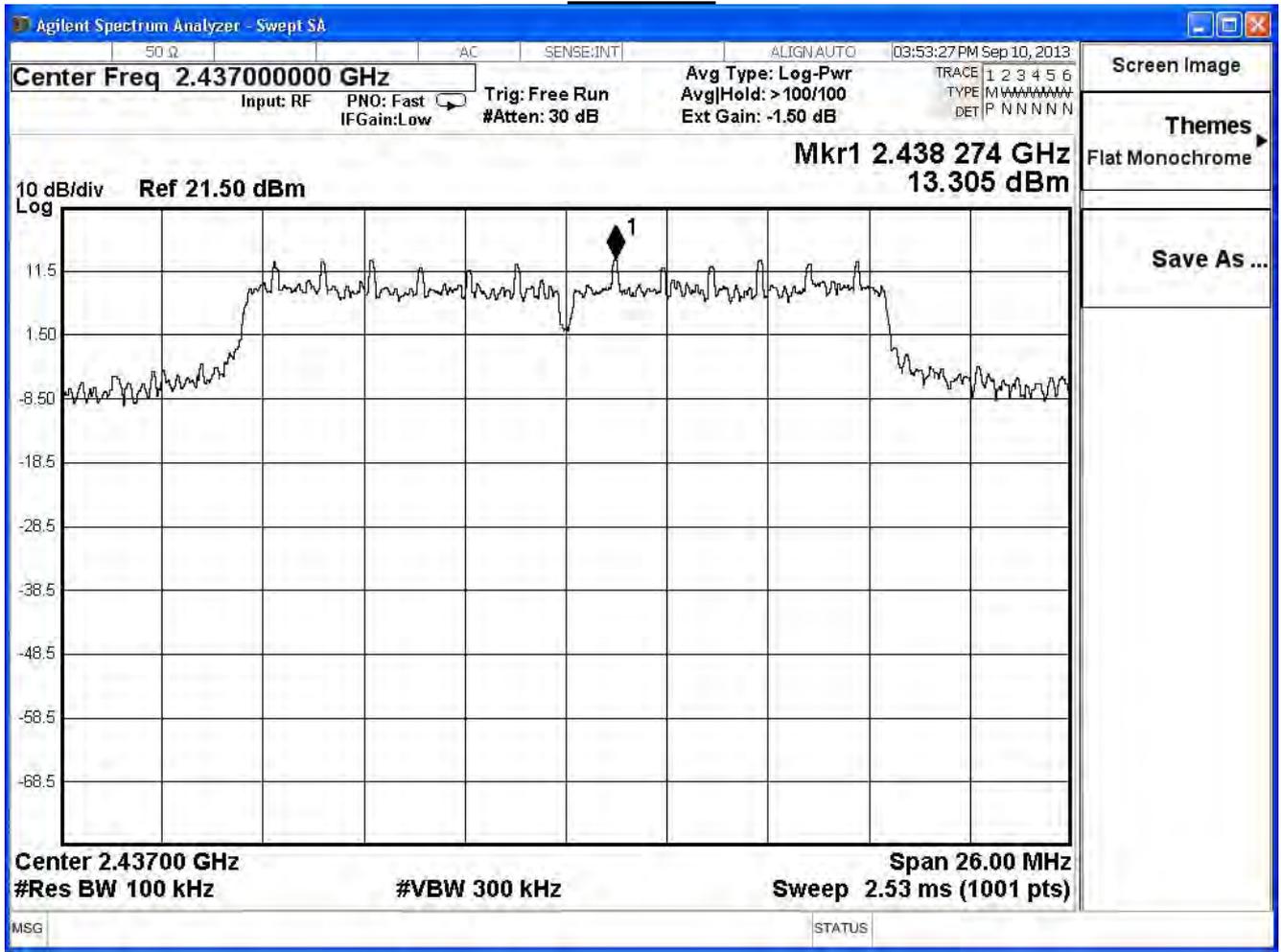
Channel 11



| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Power Density | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

| IEEE 802.11g | | | | | |
|--------------|-----------------|---------------------|-------------------|-------------|--------|
| Channel No. | Frequency (MHz) | Reading Level (dBm) | Measurement (dBm) | Limit (dBm) | Result |
| 1 | 2412 | 6.13 | -9.07 | ≤ 8 | Pass |
| 6 | 2437 | 13.31 | -1.89 | ≤ 8 | Pass |
| 11 | 2462 | 5.34 | -9.86 | ≤ 8 | Pass |

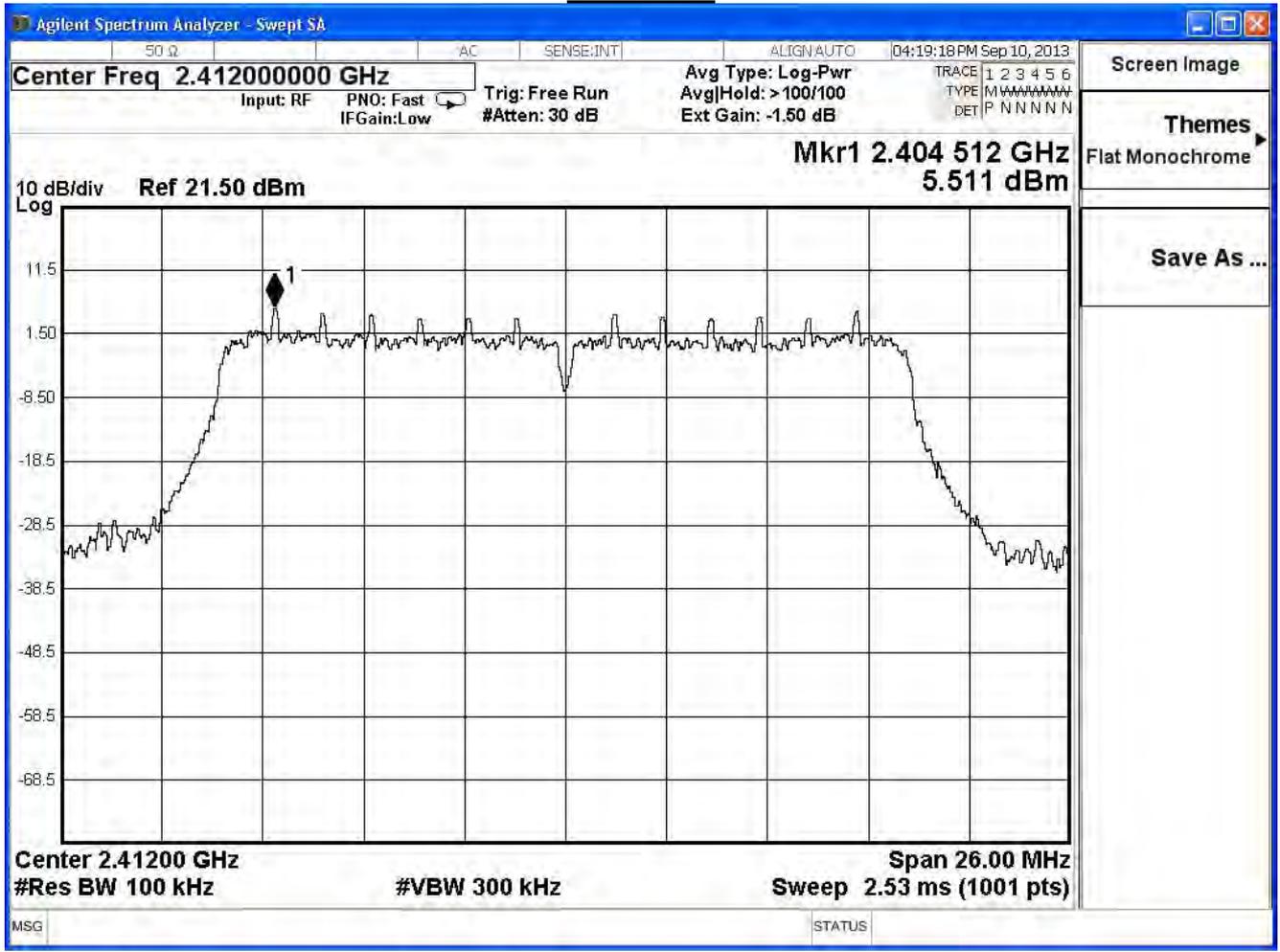
Channel 6



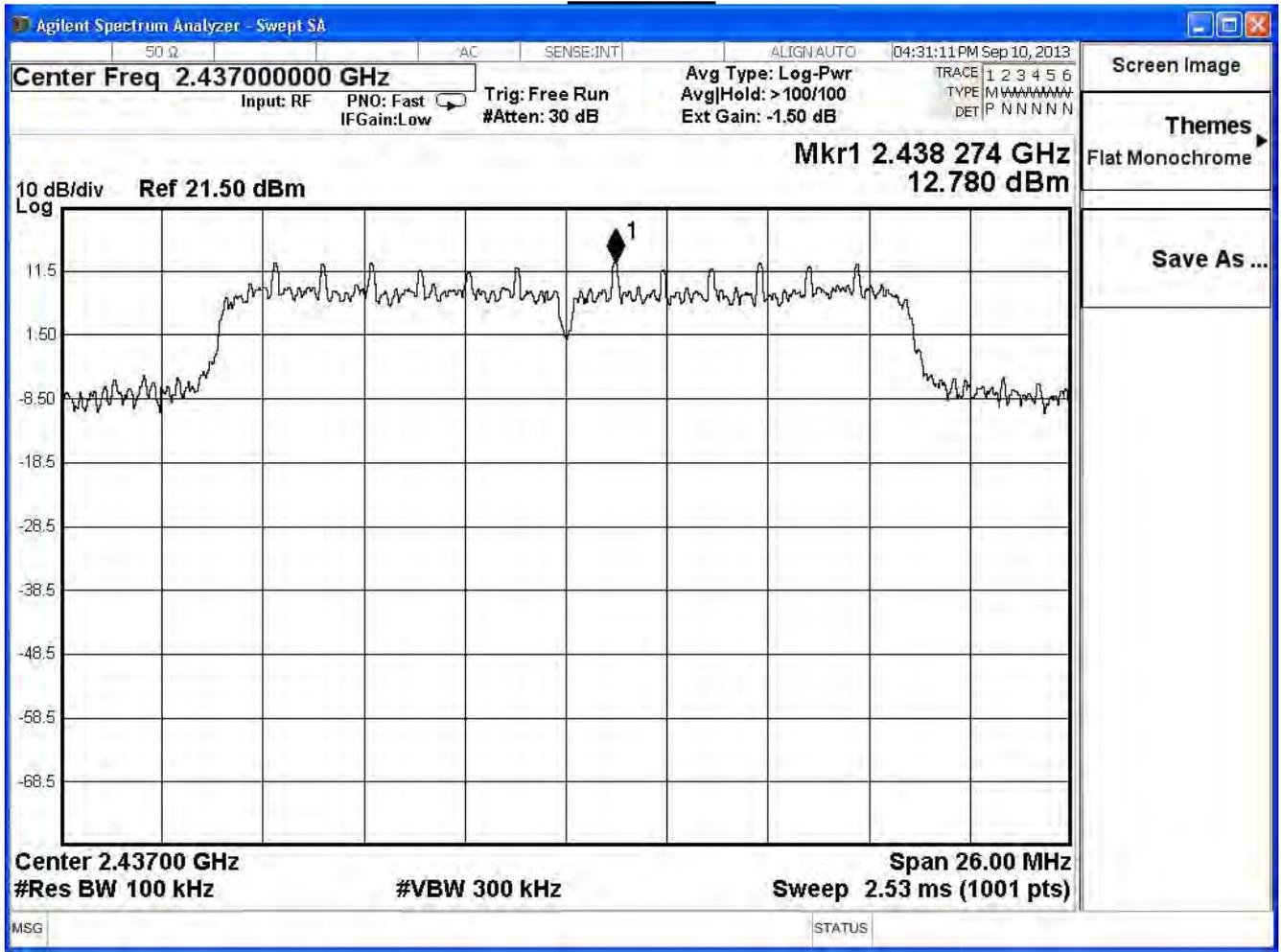
| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Power Density | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

| IEEE802.11n_20MHz_(ANT 0) | | | | | |
|---------------------------|-----------------|---------------------|---------------------|-------------|--------|
| Channel No. | Frequency (MHz) | Reading Level (dBm) | Measure Level (dBm) | Limit (dBm) | Result |
| 1 | 2412 | 5.51 | -9.69 | ≤ 8 | Pass |
| 6 | 2437 | 12.78 | -2.42 | ≤ 8 | Pass |
| 11 | 2462 | 3.67 | -11.53 | ≤ 8 | Pass |

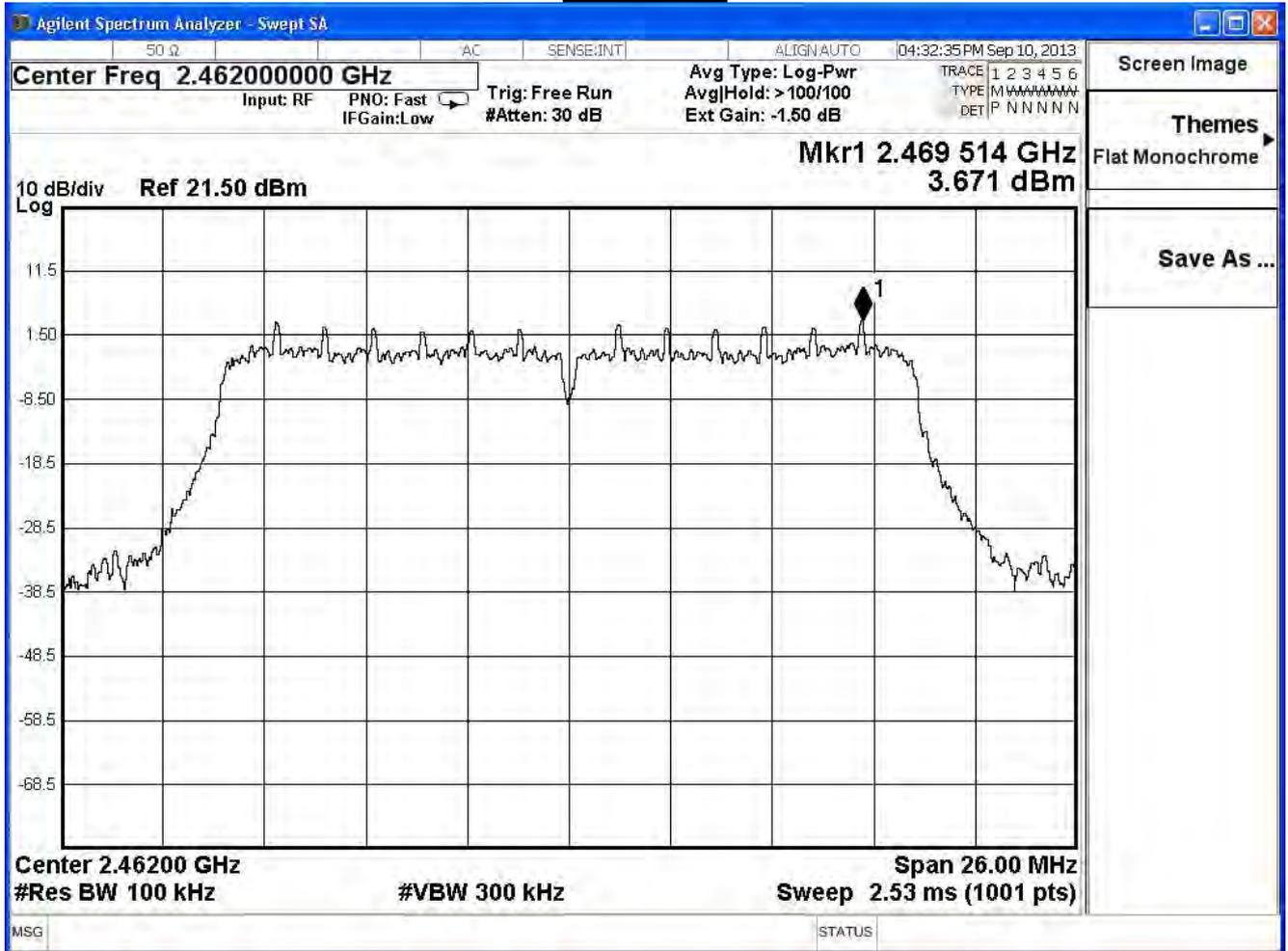
Channel 1



Channel 6



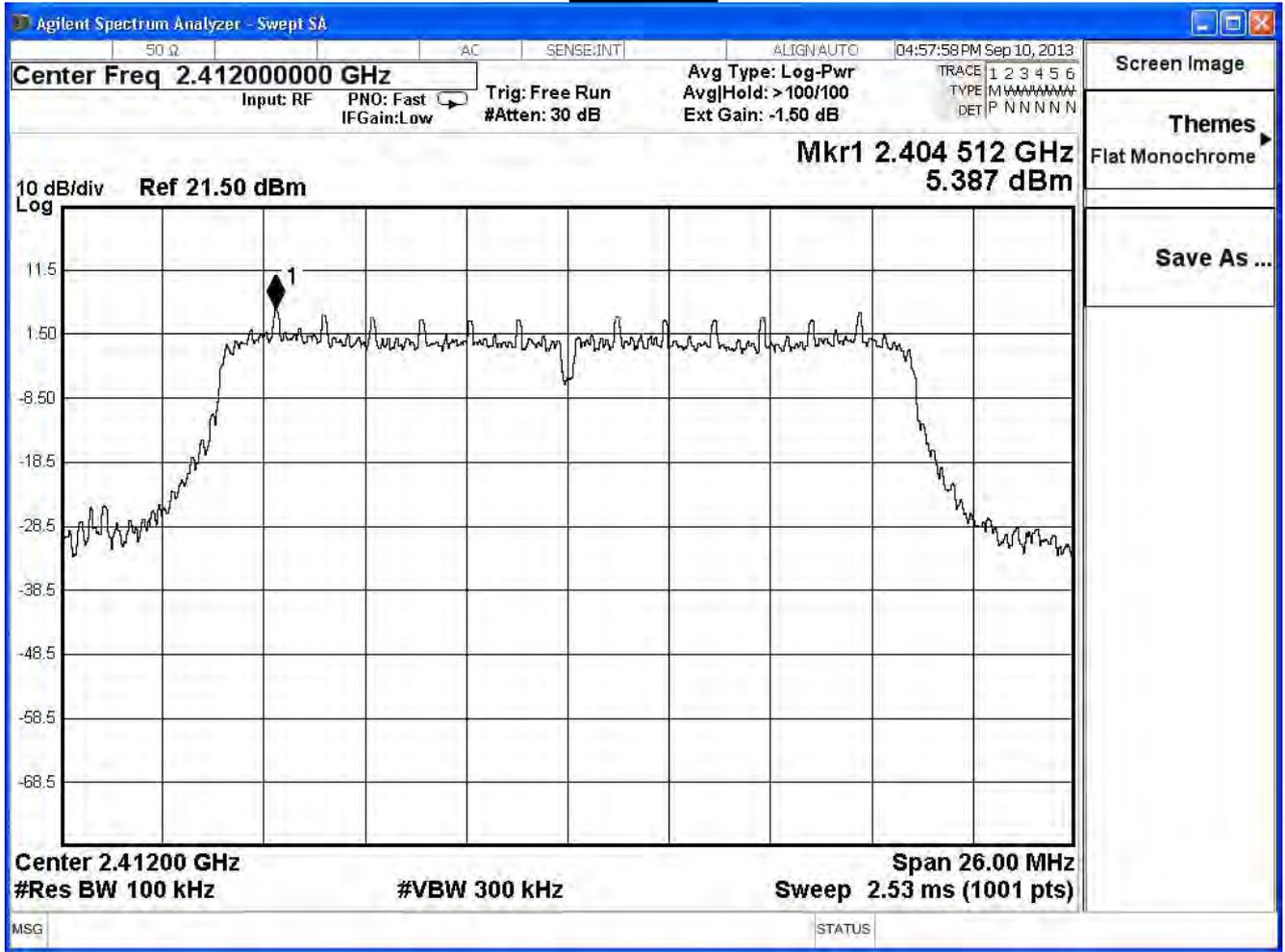
Channel 11



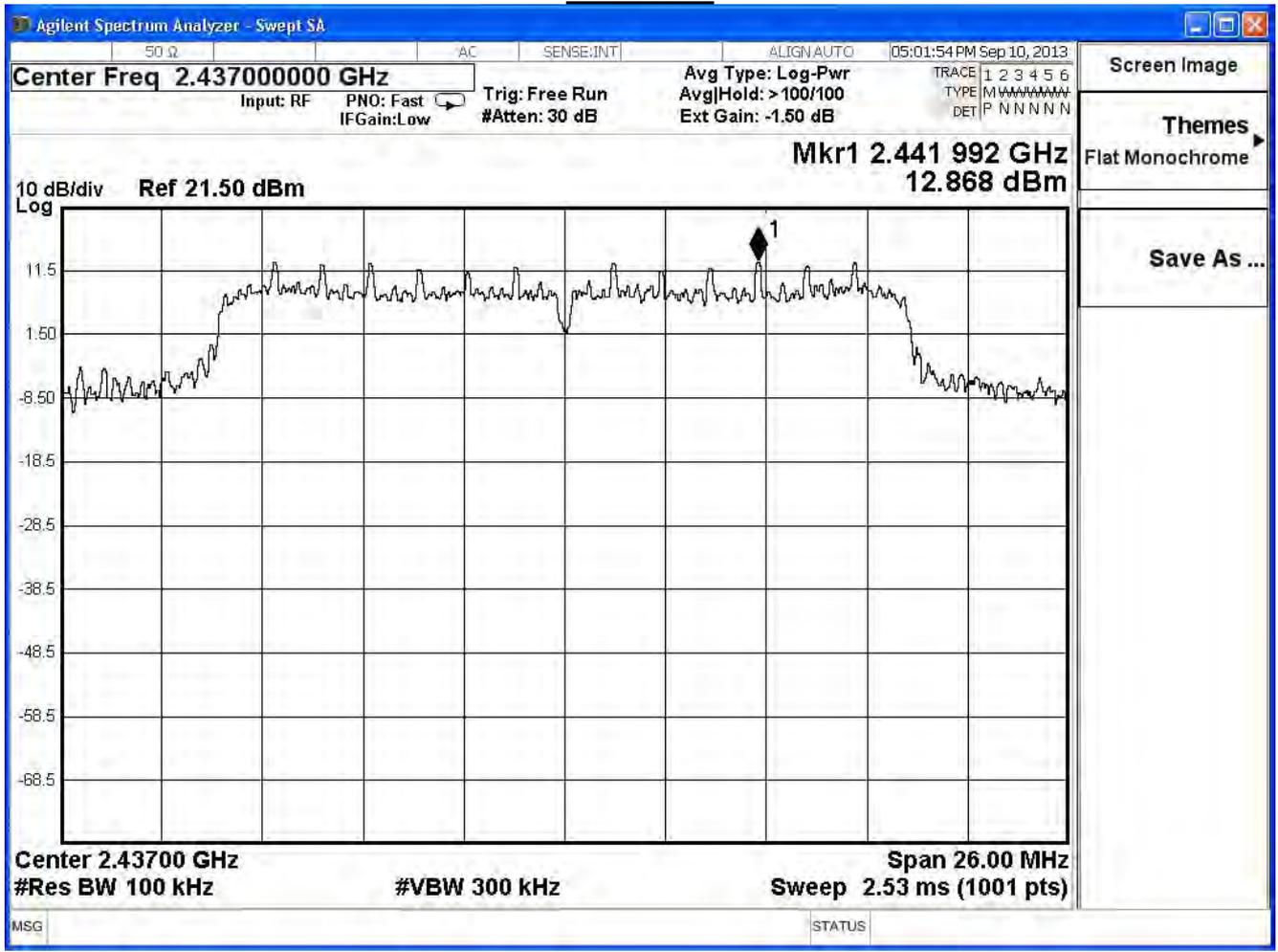
| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Power Density | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

| IEEE802.11n_20MHz_(ANT 1) | | | | | |
|---------------------------|-----------------|---------------------|-------------------|-------------|--------|
| Channel No. | Frequency (MHz) | Reading Level (dBm) | Measurement (dBm) | Limit (dBm) | Result |
| 1 | 2412 | 5.39 | -9.81 | ≤ 8 | Pass |
| 6 | 2437 | 12.87 | -2.33 | ≤ 8 | Pass |
| 11 | 2462 | 3.67 | -11.53 | ≤ 8 | Pass |

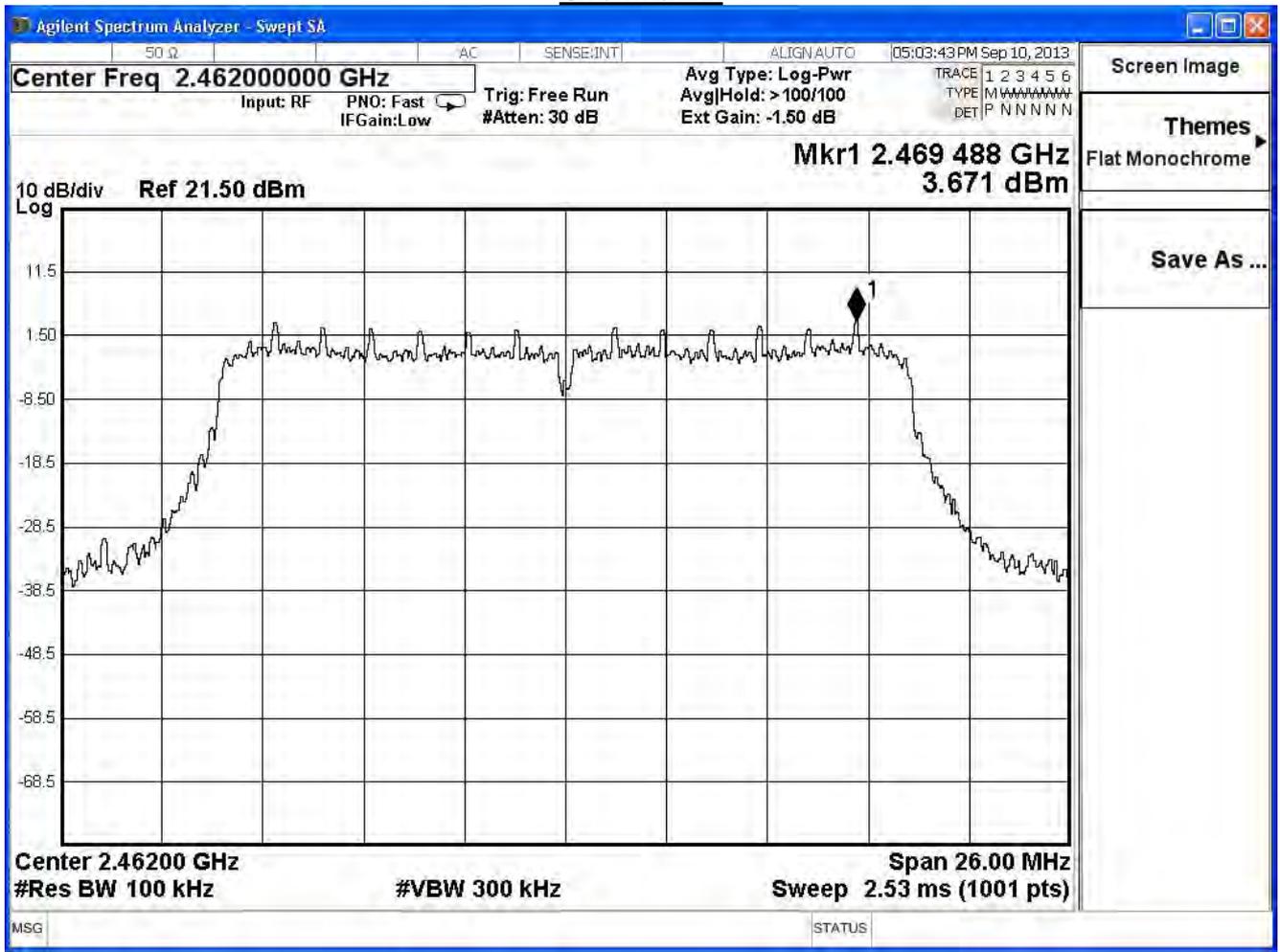
Channel 1



Channel 6



Channel 11



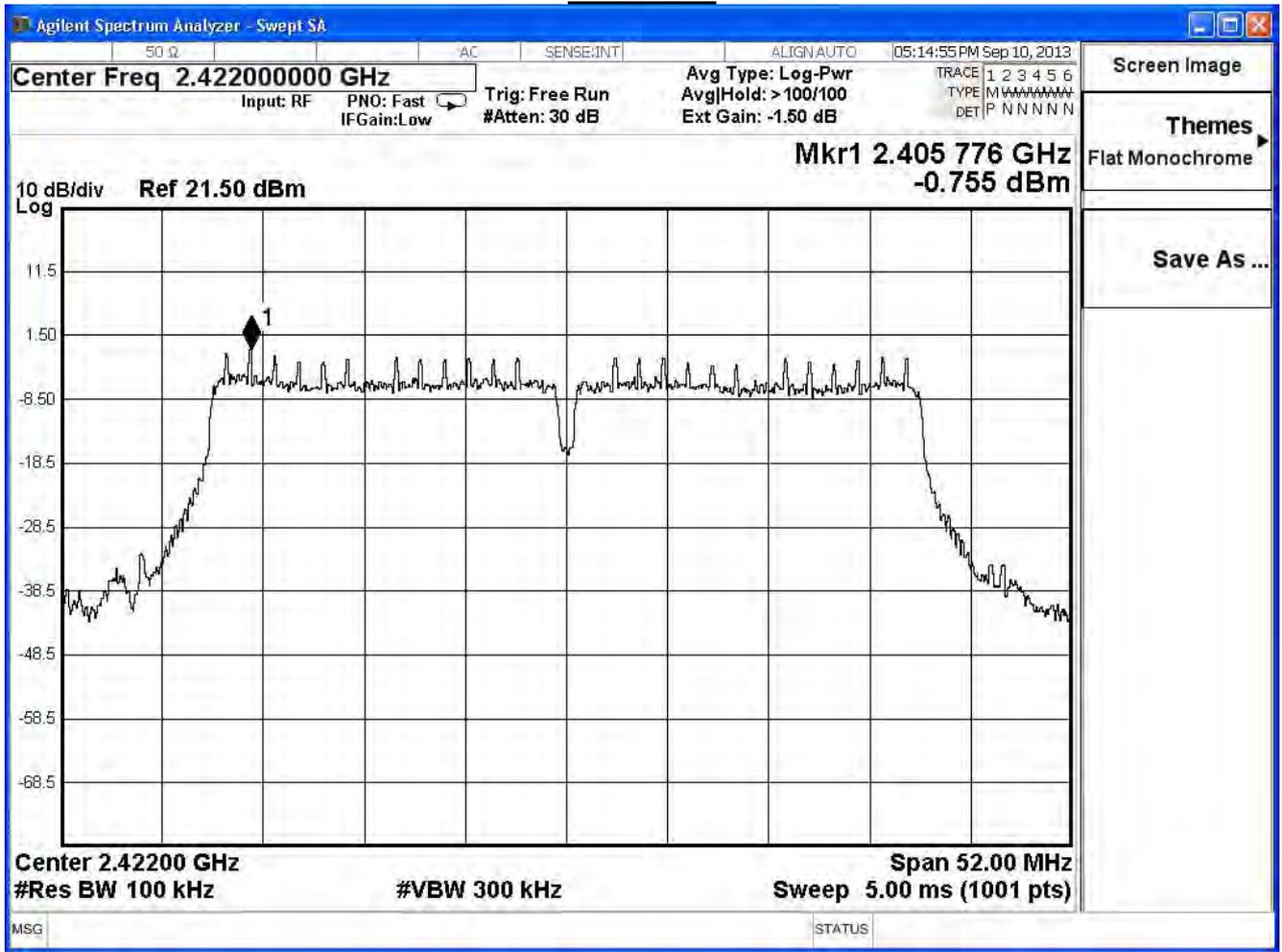
| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Power Density | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

| IEEE802.11n 20MHz (ANT 0+1) | | | | |
|-----------------------------|-----------------|---------------------|-------------|--------|
| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
| 1 | 2412 | -6.74 | ≤ 8 | Pass |
| 6 | 2437 | 0.64 | ≤ 8 | Pass |
| 11 | 2462 | -8.52 | ≤ 8 | Pass |

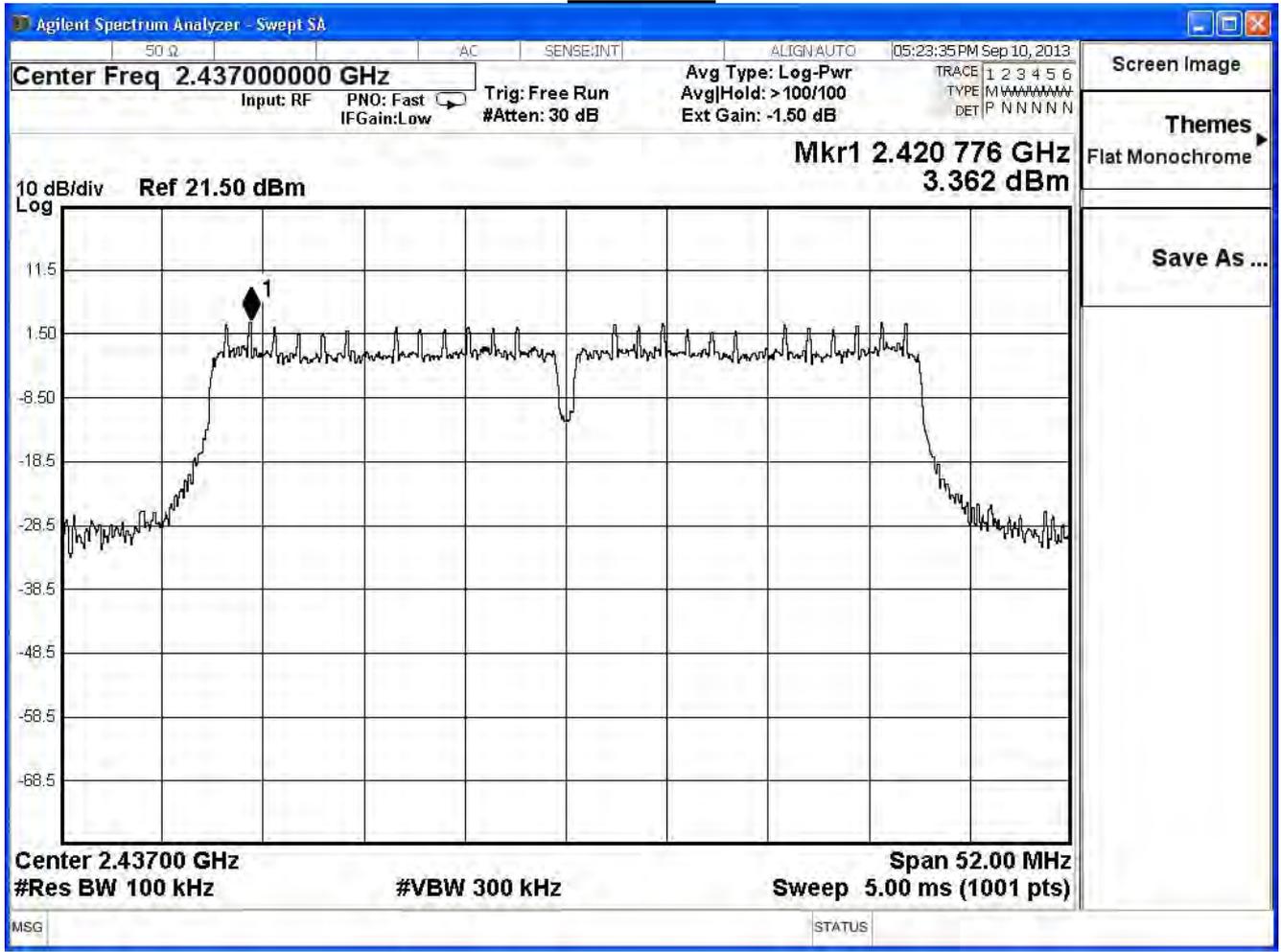
| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Power Density | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

| IEEE 802.11n_40MHz (ANT 0) | | | | | |
|----------------------------|-----------------|---------------------|-------------------|-------------|--------|
| Channel No. | Frequency (MHz) | Reading Level (dBm) | Measurement (dBm) | Limit (dBm) | Result |
| 3 | 2422 | -0.74 | -15.94 | ≤ 8 | Pass |
| 6 | 2437 | 3.36 | -11.84 | ≤ 8 | Pass |
| 9 | 2452 | -0.22 | -15.42 | ≤ 8 | Pass |

Channel 3



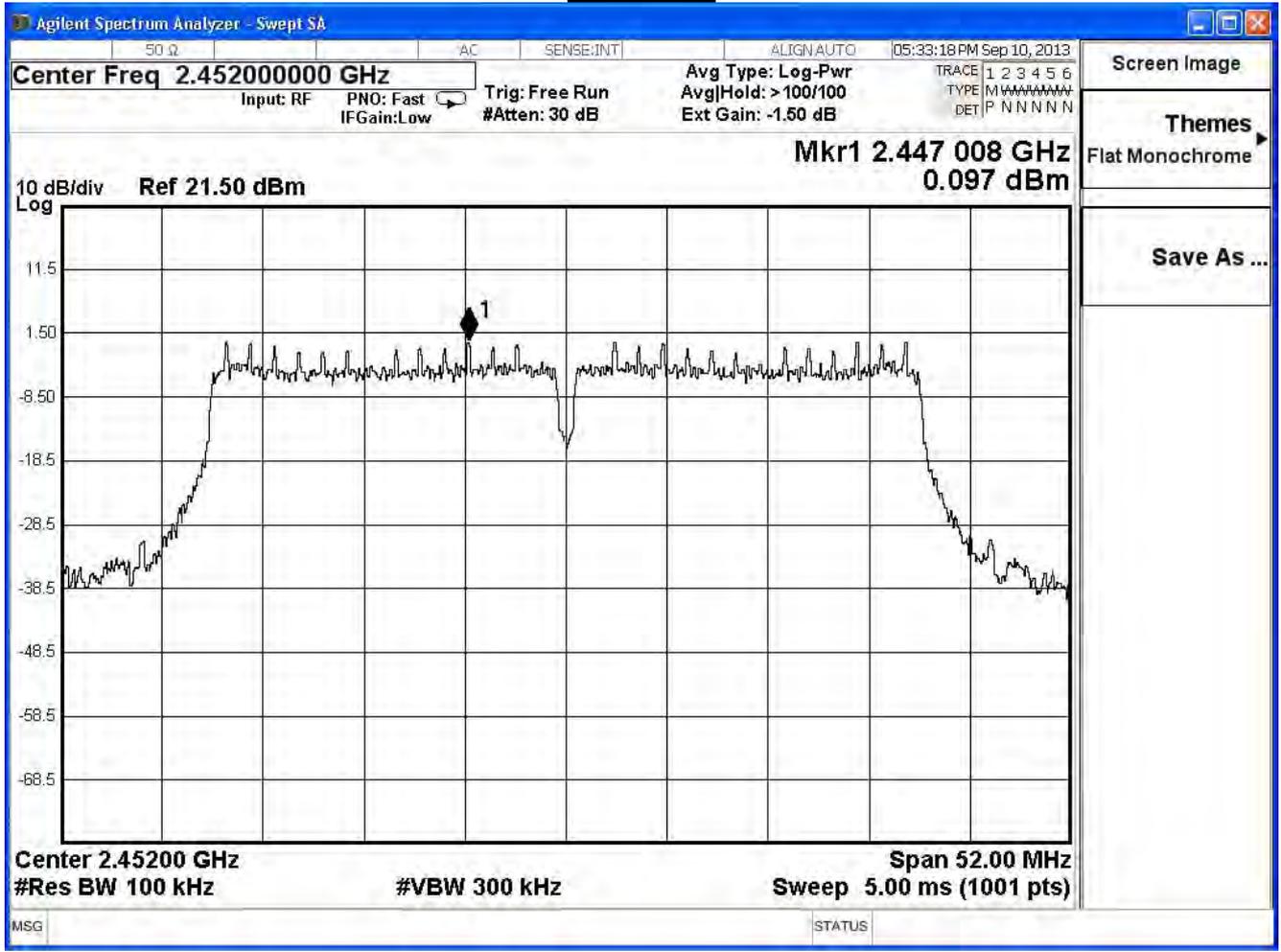
Channel 6



| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Power Density | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

| IEEE 802.11n_40MHz (ANT 1) | | | | | |
|----------------------------|-----------------|---------------------|---------------------|-------------|--------|
| Channel No. | Frequency (MHz) | Reading Level (dBm) | Measure Level (dBm) | Limit (dBm) | Result |
| 3 | 2422 | -0.49 | -15.69 | ≤ 8 | Pass |
| 6 | 2437 | 3.66 | -11.54 | ≤ 8 | Pass |
| 9 | 2452 | 0.10 | -15.10 | ≤ 8 | Pass |

Channel 9



| | | | |
|--------------|--------------------------------------|-----------|-----|
| Product | RP-N14 Wireless N-300 Range Extender | | |
| Test Item | Power Density | | |
| Test Mode | Mode 1: Transmit | | |
| Date of Test | 2013/09/10 | Test Site | SR7 |

IEEE802.11n 40MHz(ANT 0+1)

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 3 | 2422 | -12.80 | ≤ 8 | Pass |
| 6 | 2437 | -8.68 | ≤ 8 | Pass |
| 9 | 2452 | -12.25 | ≤ 8 | Pass |