

# **FCC Co-location Test Report**

| Equipment    | : | Greenpacket Wi-Fi 11ac/b/g/n Router  |
|--------------|---|--|
| Brand Name   | : | Greenpacket  |
| Model No.    | : | WA-1200  |
| FCC ID       | : | W9V-WA1200-GP  |
| Standard     | : | 47 CFR FCC Part 15   |
| Applicant    | : | <b>Green Packet Berhad, Taiwan</b><br>6F, No.21, Lane 583, Rueiguang Rd. Neihu District,<br>Taipei City 11492, Taiwan  |
| Manufacturer | : | <ul> <li>Green Packet Berhad, Taiwan</li> <li>1. 6F, No.21, Lane 583, Rueiguang Rd. Neihu District,<br/>Taipei City 11492, Taiwan</li> <li>2. Room A68, 3F., 151, Keyuan Road,<br/>Zhangjiang Hi-Tech Park, Pudong New Area,<br/>Shanghai 201203, P.R.China</li> </ul> |

The product sample received on Sep. 06, 2016 and completely tested on Nov. 24, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

**Reviewed by:** 

Kevin Liang / Assistant Manager





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Appendix A Test Result of Unwanted Emissions



# **Revision History**

| Report No. | Version | Description             | Issued Date   |
|------------|---------|-------------------------|---------------|
| FR690512CO | Rev. 01 | Initial issue of report | Dec. 01, 2016 |
|            |         |                         |               |
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|            |         |                         |               |



# 1 Test Configuration of EUT

## 1.1 Test Condition

| Radiated Co-TX or Cabinet | Remark         | - |
|---------------------------|----------------|---|
| AC Adapter 1              | WA-24Q12R      | - |
| AC Adapter 2              | S024AMM1200200 | - |

### **1.2** The Worst Case Measurement Configuration

| Tł                          | The Worst Case Mode for Following Conformance Tests |   |                        |  |  |  |  |  |
|-----------------------------|---|---|------------------------|--|--|--|--|--|
| Tests Item                  | Transmitter Radiated Unw                            | Transmitter Radiated Unwanted Emissions               |                        |  |  |  |  |  |
| Test Condition              | Radiated measurement                                |   |                        |  |  |  |  |  |
|                             | EUT will be placed in                               | fixed position.                                       |                        |  |  |  |  |  |
| User Position               | EUT will be placed in                               | mobile position and operati                           | ng multiple positions. |  |  |  |  |  |
|                             | EUT will be a hand-he operating multiple pos        | eld or body-worn battery-powered devices and sitions. |                        |  |  |  |  |  |
| Operating Made              | 1. Adapter 1 Mode(WA-24Q12R)                        |   |                        |  |  |  |  |  |
| Operating Mode              | 2. Adapter 2 Mode(S024AMM1200200)                   |   |                        |  |  |  |  |  |
|                             | X Plane   | Y Plane   | Z Plane                |  |  |  |  |  |
| Orthogonal Planes of<br>EUT |   |   |                        |  |  |  |  |  |
| Worst Planes of EUT         | V   |   |                        |  |  |  |  |  |
| Worst Planes of Ant.        |   |   | V                      |  |  |  |  |  |

### **1.3 Testing Location Information**

|  | Testing Location                          |     |  |           |       |              |            |  |  |
|--|---|-----|--|-----------|-------|--------------|------------|--|--|
| $\boxtimes$  | HWA YA                                    | ADD | ADD : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District,<br>Tao Yuan City, Taiwan, R.O.C. |           |       |              |            |  |  |
|  | TEL : 886-3-327-3456 FAX : 886-3-327-0973 |     |  |           |       |              |            |  |  |
| Test Condition Test Site No. Test Engineer Test Environment Test |   |     |  |           |       | Test Date    |            |  |  |
|  | Radiated                                  |     | (  | 03CH09-HY | Terry | 22.5°C / 59% | 24/11/2016 |  |  |

Test site registered number [ 553509 ] with FCC.



# 2 CO-LOCATION

### 2.1 Transmitter Radiated Unwanted Emissions

#### 2.1.1 Transmitter Radiated Unwanted Emissions Limit

| Restricted Band Emissions Limit |                       |                         |                      |  |  |  |  |  |
|---------------------------------|-----------------------|-------------------------|----------------------|--|--|--|--|--|
| Frequency Range (MHz)           | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |  |  |  |  |  |
| 0.009~0.490                     | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |  |  |  |  |  |
| 0.490~1.705                     | 24000/F(kHz)          | 33.8 - 23               | 30                   |  |  |  |  |  |
| 1.705~30.0                      | 30                    | 29                      | 30                   |  |  |  |  |  |
| 30~88                           | 100                   | 40                      | 3                    |  |  |  |  |  |
| 88~216                          | 150                   | 43.5                    | 3                    |  |  |  |  |  |
| 216~960                         | 200                   | 46                      | 3                    |  |  |  |  |  |
| Above 960                       | 500                   | 54                      | 3                    |  |  |  |  |  |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 30 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

| Un-restricted Band Emissions Limit  |    |  |  |  |  |  |  |  |
|---|----|--|--|--|--|--|--|--|
| RF output power procedure Limit (dB)  |    |  |  |  |  |  |  |  |
| Peak output power procedure   | 20 |  |  |  |  |  |  |  |
| Average output power procedure  | 30 |  |  |  |  |  |  |  |
| <ul> <li>Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative t the maximum measured in-band peak PSD level.</li> <li>Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 20 dB relative t the maximum measured in-band peak PSD level.</li> </ul> |    |  |  |  |  |  |  |  |

#### average PSD level.

#### 2.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

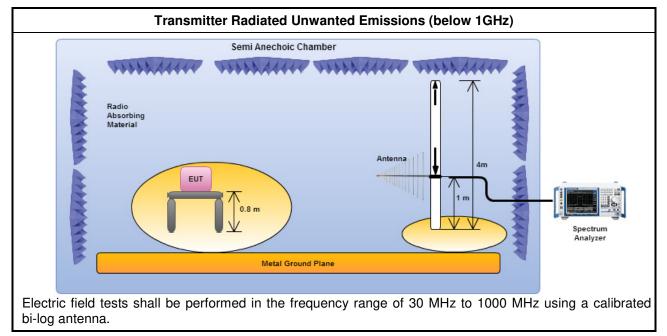


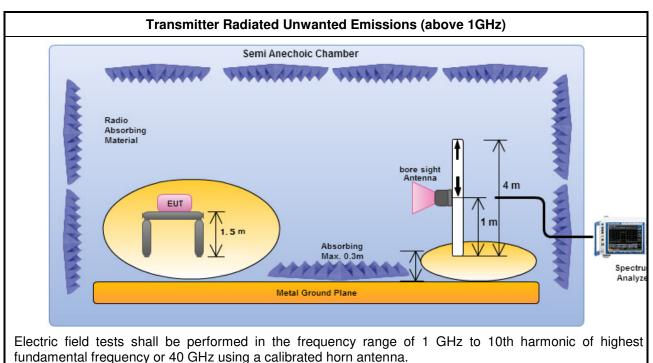
### 2.1.3 Test Procedures

|             |                                | Test Method   |
|-------------|--------------------------------|---|
|             | perf<br>equi<br>extra<br>dista | surements may be performed at a distance other than the limit distance provided they are not<br>ormed in the near field and the emissions to be measured can be detected by the measurement<br>pment. When performing measurements at a distance other than that specified, the results shall be<br>apolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear<br>ance for field-strength measurements, inverse of linear distance-squared for power-density<br>usurements). |
| $\boxtimes$ | The                            | average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].   |
| $\boxtimes$ | For                            | the transmitter unwanted emissions shall be measured using following options below:   |
|             | $\square$                      | Refer as KDB 558074, clause 11 for unwanted emissions into non-restricted bands.  |
|             | $\square$                      | Refer as KDB 558074, clause 12 for unwanted emissions into restricted bands.  |
|             |                                | Refer as KDB 558074, clause 12.2.5.1 and 9.2.1 Option 1 (spectral trace averaging)  |
|             |                                | Refer as KDB 558074, clause 12.2.5.2 and 9.2.1 Option 2 (slow sweep speed).   |
|             |                                | □ Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW $\ge$ 1/T, where T is pulse time.   |
|             |                                | Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.   |
|             |                                | Refer as KDB 558074, clause 12.2.4 and 9.1.1 measurement procedure peak limit.  |
|             |                                | Refer as KDB 558074, clause 12.2.3 measurement procedure Quasi-Peak limit.  |
| $\square$   | For                            | radiated measurement, refer as KDB 558074, clause 12.1.   |
|             |                                | Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.   |
|             | $\square$                      | Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.  |
|             | $\square$                      | Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.  |
|             | For                            | conducted and cabinet radiation measurement, refer as KDB 558074, clause 12.2.2.  |
|             |                                | For conducted unwanted emissions into non-restricted bands (relative emission limits).<br>Devices with multiple transmit chains:<br>Refer as KDB 662911, when testing out-of-band and spurious emissions against relative emission<br>limits, tests may be performed on each output individually without summing or adding 10 log(N) if<br>the measurements are made relative to the in-band emissions on the individual outputs.   |
|             |                                | For conducted unwanted emissions into restricted bands (absolute emission limits).<br>Devices with multiple transmit chains using options given below:<br>(1) Measure and sum the spectra across the outputs or<br>(2) Measure and add 10 log(N) dB   |



#### 2.1.4 Test Setup





### 2.1.5 Transmitter Unwanted Emissions

Refer as Appendix A



# 3 Test Equipment and Calibration Data

| Instrument                  | Manufacturer | Model No.               | Serial No.     | Characteristics | Calibration<br>Date | Calibration<br>Due Date |
|-----------------------------|--------------|-------------------------|----------------|-----------------|---------------------|-------------------------|
| 3m Semi Anechoic<br>Chamber | TDK          | SAC-3M                  | 03CH09-HY      | 30MHz ~ 1GHz    | 25/04/2016          | 24/04/2017              |
| 3m Semi Anechoic<br>Chamber | TDK          | SAC-3M                  | 03CH09-HY      | 1GHz ~ 18GHz    | 21/06/2016          | 20/06/2017              |
| Amplifier                   | Agilent      | 8449B                   | 3008A02096     | 1GHz ~ 26.5GHz  | 11/04/2016          | 10/04/2017              |
| Amplifier                   | EMC          | EMC9135                 | 980232         | 9kHz~1GHz       | 29/01/2016          | 28/01/2017              |
| Spectrum Analyzer           | KEYSIGHT     | N9010A                  | MY54200885     | 10Hz ~ 44GHz    | 04/07/2016          | 03/07/2017              |
| Bilog Antenna               | TESEQ        | CBL 6111D               | 35418          | 30MHz~1GHz      | 01/10/2016          | 30/09/2017              |
| Horn Antenna                | SCHWARZBECK  | BBHA 9120D              | BBHA9120D 1534 | 1GHz~18GHz      | 22/04/2016          | 21/04/2017              |
| Horn Antenna                | SCHWARZBECK  | BBHA9170                | BBHA9170154    | 18GHz ~ 40GHz   | 04/01/2016          | 03/01/2017              |
| Amplifier                   | MITEQ        | JS44-18004000-33-<br>8P | 1840917        | 18GHz ~ 40GHz   | 02/06/2015          | 01/06/2017              |



#### Summary

| Mode                      | Result | Туре | Freq   | Level    | Limit    | Margin | Factor | Dist | Pol.  | Azimuth | Height | Comments |
|---------------------------|--------|------|--------|----------|----------|--------|--------|------|-------|---------|--------|----------|
|                           |        |      | (Hz)   | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  | (H/V) | (°)     | (m)    |          |
| 5.2G;11a;20;1;2;5240;H;TX | Pass   | PK   | 9.748G | 67.41    | 68.20    | -0.87  | 11.71  | 3    | Н     | NaN     | NaN    | -        |

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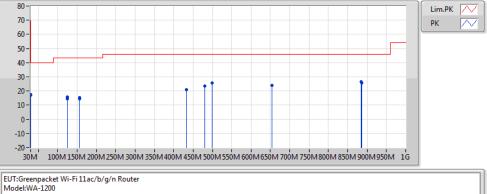
#### Result

| Mode                                | Result | Туре | Freq    | Level    | Limit    | Margin | Factor | Dist | Pol.  | Azimuth | Height | Comments |
|-------------------------------------|--------|------|---------|----------|----------|--------|--------|------|-------|---------|--------|----------|
|                                     |        |      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  | (H/V) | (°)     | (m)    |          |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 1 | Pass   | PK   | 30.21M  | 16.99    | 40.00    | -23.01 | -14.76 | 3    | Н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 1 | Pass   | PK   | 125.06M | 14.57    | 43.50    | -28.93 | -19.54 | 3    | Н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 1 | Pass   | PK   | 156.1M  | 15.39    | 43.50    | -28.11 | -20.14 | 3    | Н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 1 | Pass   | PK   | 433.52M | 21.10    | 46.00    | -24.90 | -13.78 | 3    | Н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 1 | Pass   | PK   | 499.48M | 25.81    | 46.00    | -20.19 | -12.87 | 3    | н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 1 | Pass   | PK   | 885.54M | 25.59    | 46.00    | -20.41 | -8.22  | 3    | н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 1 | Pass   | PK   | 30M     | 17.43    | 40.00    | -22.57 | -14.76 | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 1 | Pass   | PK   | 124.86M | 15.79    | 43.50    | -27.71 | -19.54 | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 1 | Pass   | PK   | 157.15M | 14.68    | 43.50    | -28.82 | -20.19 | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 1 | Pass   | PK   | 480.08M | 23.33    | 46.00    | -22.67 | -13.08 | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 1 | Pass   | PK   | 654.68M | 23.78    | 46.00    | -22.22 | -10.67 | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 1 | Pass   | PK   | 884.81M | 26.43    | 46.00    | -19.57 | -8.23  | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 2 | Pass   | PK   | 124.91M | 14.73    | 43.50    | -28.77 | -19.54 | 3    | Н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 2 | Pass   | PK   | 155.53M | 14.65    | 43.50    | -28.85 | -20.11 | 3    | н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 2 | Pass   | PK   | 262.8M  | 16.51    | 46.00    | -29.49 | -16.82 | 3    | н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 2 | Pass   | PK   | 493.66M | 22.61    | 46.00    | -23.39 | -12.94 | 3    | Н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 2 | Pass   | PK   | 600.36M | 22.22    | 46.00    | -23.78 | -11.41 | 3    | Н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 2 | Pass   | PK   | 928.22M | 26.97    | 46.00    | -19.03 | -7.02  | 3    | Н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 2 | Pass   | PK   | 30.31M  | 18.17    | 40.00    | -21.83 | -14.87 | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 2 | Pass   | PK   | 51.34M  | 14.98    | 40.00    | -25.02 | -23.99 | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 2 | Pass   | PK   | 125.37M | 15.19    | 43.50    | -28.31 | -19.54 | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 2 | Pass   | PK   | 491.72M | 25.88    | 46.00    | -20.12 | -12.96 | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 2 | Pass   | PK   | 513.06M | 27.08    | 46.00    | -18.92 | -12.81 | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;AC Adapter 2 | Pass   | PK   | 800.18M | 28.79    | 46.00    | -17.21 | -9.03  | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | AV   | 4.874G  | 44.35    | 54.00    | -9.65  | 2.21   | 3    | н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | AV   | 7.311G  | 50.29    | 54.00    | -3.71  | 8.29   | 3    | Н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | AV   | 15.72G  | 46.24    | 54.00    | -7.76  | 13.94  | 3    | н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | PK   | 4.874G  | 56.57    | 74.00    | -17.43 | 2.21   | 3    | н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | PK   | 7.311G  | 62.61    | 74.00    | -11.39 | 8.29   | 3    | Н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | PK   | 9.748G  | 67.41    | 68.20    | -0.87  | 11.71  | 3    | н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | PK   | 10.48G  | 56.49    | 68.20    | -11.43 | 13.33  | 3    | н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | PK   | 15.72G  | 58.10    | 74.00    | -15.90 | 13.94  | 3    | н     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | AV   | 4.874G  | 45.44    | 54.00    | -8.56  | 2.21   | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | AV   | 7.311G  | 51.39    | 54.00    | -2.61  | 8.29   | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | AV   | 15.72G  | 47.29    | 54.00    | -6.71  | 13.94  | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | PK   | 4.874G  | 57.58    | 74.00    | -16.42 | 2.21   | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | PK   | 7.311G  | 63.61    | 74.00    | -10.39 | 8.29   | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | PK   | 9.748G  | 66.32    | 68.20    | -1.88  | 11.71  | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | PK   | 10.48G  | 57.09    | 68.20    | -11.11 | 13.33  | 3    | V     | NaN     | NaN    | -        |
| 5.2G;11a;20;1;2;5240;H;TX           | Pass   | РК   | 15.72G  | 58.88    | 74.00    | -15.12 | 13.94  | 3    | V     | NaN     | NaN    | _        |

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|----------------------------|------------|------------|
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& 2437MHz 11g , setting:27

800.18M

28.79

46.00

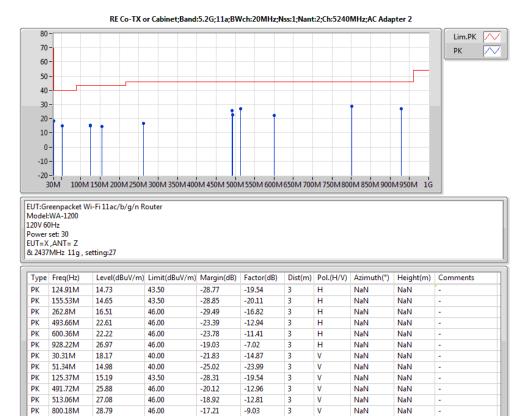
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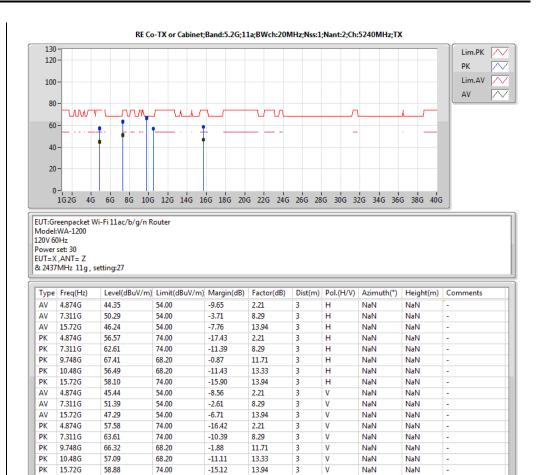
-9.03

NaN

NaN

| Туре | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|------|----------|---------------|---------------|------------|------------|---------|-----------|------------|-----------|----------|
| РК   | 30.21M   | 16.99         | 40.00         | -23.01     | -14.76     | 3       | н         | NaN        | NaN       | -        |
| РК   | 125.06M  | 14.57         | 43.50         | -28.93     | -19.54     | 3       | Н         | NaN        | NaN       | -        |
| РК   | 156.1M   | 15.39         | 43.50         | -28.11     | -20.14     | 3       | Н         | NaN        | NaN       | -        |
| PK   | 433.52M  | 21.10         | 46.00         | -24.90     | -13.78     | 3       | Н         | NaN        | NaN       | -        |
| РК   | 499.48M  | 25.81         | 46.00         | -20.19     | -12.87     | 3       | Н         | NaN        | NaN       | -        |
| РК   | 885.54M  | 25.59         | 46.00         | -20.41     | -8.22      | 3       | Н         | NaN        | NaN       | -        |
| PK   | 30M      | 17.43         | 40.00         | -22.57     | -14.76     | 3       | ۷         | NaN        | NaN       | -        |
| PK   | 124.86M  | 15.79         | 43.50         | -27.71     | -19.54     | 3       | ۷         | NaN        | NaN       | -        |
| PK   | 157.15M  | 14.68         | 43.50         | -28.82     | -20.19     | 3       | ۷         | NaN        | NaN       | -        |
| PK   | 480.08M  | 23.33         | 46.00         | -22.67     | -13.08     | 3       | ۷         | NaN        | NaN       | -        |
| РК   | 654.68M  | 23.78         | 46.00         | -22.22     | -10.67     | 3       | ۷         | NaN        | NaN       | -        |
| PK   | 884.81M  | 26.43         | 46.00         | -19.57     | -8.23      | 3       | V         | NaN        | NaN       | -        |





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|----------------------------|------------|------------|
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| FAX : 886-3-327-0973       |            |            |