



Date: 3.SEP.2014 15:27:41





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Fig. 60 Maximum Average Output Power (802.11n-20MHz, Ch 11,MCS7)





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Fig. 62 Maximum Average Output Power (802.11n- 40MHz,Ch6,MCS0)





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Fig. 64 Maximum Average Output Power (802.11n- 40MHz,Ch1,MCS1)





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Fig. 66 Maximum Average Output Power (802.11n- 40MHz, Ch11, MCS1)





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Fig. 68 Maximum Average Output Power (802.11n- 40MHz,Ch6,MCS2)





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Fig. 70 Maximum Average Output Power (802.11n- 40MHz,Ch1,MCS3)





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Fig. 72 Maximum Average Output Power (802.11n- 40MHz, Ch11, MCS3)





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Fig. 74 Maximum Average Output Power (802.11n- 40MHz,Ch6,MCS4)





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Fig. 76 Maximum Average Output Power (802.11n- 40MHz,Ch1,MCS5)





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Fig. 78 Maximum Average Output Power (802.11n- 40MHz, Ch11, MCS5)





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Fig. 80 Maximum Average Output Power (802.11n- 40MHz,Ch6,MCS6)





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Fig. 82 Maximum Average Output Power (802.11n- 40MHz,Ch1,MCS7)





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Fig. 84 Maximum Average Output Power (802.11n- 40MHz, Ch11, MCS7)























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Fig. 88 Power Spectral Density (802.11g, Ch 1)





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Fig. 90 Power Spectral Density (802.11g, Ch 11)





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Fig. 92 Power Spectral Density (802.11n-20MHz, Ch 6)















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### Fig. 98 Occupied 6dB Bandwidth (802.11b, Ch 6)





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### Fig. 100 Occupied 6dB Bandwidth (802.11g, Ch 1)



| Spe        | ectrun   | n     | ٦              |                            |  |                |                |          |            |  |
|------------|----------|-------|----------------|----------------------------|--|----------------|----------------|----------|------------|--|
| Ref<br>Att | Level    | 20.0  | 0 dBn<br>40 di | n<br>B SWT 1 ms            | <ul> <li>RBW 100 kHz</li> <li>VBW 300 kHz</li> </ul> | Mode Aut       | o Sweep        |          |            |  |
| 1P         | k Max    |       |                |                            |  |                |                |          |            |  |
| 10 d       | IBm      |       |                | MI                         | Mundamburt   | e may weathing | D3[1]<br>M1[1] |          | 1.<br>2.42 | -0.01 dE<br>F.6740 MH<br>-0.95 dBn<br>97500 GH |
| -10        | dBm      | -UI - | 1.030          | GBM                        |  | Y              |                | and and  |            |  |
| -20        | dBm-     | m     | Nor            | M                          |  |                |                |          | mour       | mm   |
| -30        | dBm      |       |                |                            |  |                |                |          | -          |  |
| -40        | dBm—     |       |                |                            |  |                |                |          |            |  |
| -50        | dBm—     |       |                |                            |  |                |                | -        |            |  |
| -60        | dBm-     |       |                |                            |  |                |                | -        |            |  |
| -70        | dBm      |       |                |                            |  | _              |                |          |            |  |
| CF :       | 2.437 (  | GHz   |                | de la                      |  | 691 pts        |                | 13 1     | Span       | 30.0 MHz                                       |
| Ma         | rker     |       |                |                            |  |                |                |          |            |  |
| No         | Туре     | Ref   | Trc            | Stimulus                   | Response   | Function       |                | Function | Result     |  |
| 1          | N1       |       | 1              | 2.42975 GHz                | -0.95 dBm  |                |                |          |            |  |
| 2          | N2<br>D3 | N1    | 1              | 2.435741 GHz<br>14.674 MHz | 4.97 dBm<br>-0.01 dB                                 |                |                |          |            |  |
| _          |          | T     |                |                            |  | M              | easuring       |          | 4/4        | 02.09.2014                                     |

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## Fig. 102 Occupied 6dB Bandwidth (802.11g, Ch 11)



| Spe               | ectrun   | n    |                |                            |  |          |                          |               |   |
|-------------------|----------|------|----------------|----------------------------|--|----------|--------------------------|---------------|---|
| Ref<br>Att<br>TDF | Level    | 20.0 | 0 dBr<br>40 di | n<br>B SWT 1 ms            | <ul> <li>RBW 100 kHz</li> <li>VBW 300 kHz</li> </ul> | Mode Au  | to Sweep                 |               |   |
| <b>9</b> 1P       | k Max    |      |                |                            | 10   |          |                          |               |   |
| 10 d<br>0 dB      | IBm      | D1 - | 3.190          | MI                         | hereturned   | M2       | D3[1]<br>M1[1]<br>Mpmmmm | Angellow 1    | -0.64 dt<br>15.3260 MH;<br>-3.19 dBn<br>2.4042720 GH; |
| -10               | dBm      | 22   |                | 1                          |  | Y        | -                        |               |   |
| -20               | dBm      | over | w              | 1                          |  |          |                          |               | Inchronenenen   |
| -40               | dBm—     |      |                |                            |  | _        |                          |               |   |
| -50               | dBm—     |      |                |                            |  | _        |                          |               |   |
| -60               | dBm      |      |                |                            |  | _        |                          |               |   |
| -70               | dBm      |      |                |                            |  | _        |                          |               |   |
| CF :              | 2.412    | GHz  |                |                            |  | 691 pts  | 11.2                     | 10            | Span 30.0 MHz   |
| Ma                | rker     |      |                |                            |  |          | 1117                     |               |   |
| No                | Туре     | Ref  | Trc            | Stimulus                   | Response   | Function |                          | Function F    | Result  |
| 1                 | N1       |      | 1              | 2.404272 GHz               | -3.19 dBm  |          |                          |               |   |
| 2                 | N2<br>D3 | N1   | 1              | 2.413259 GHz<br>15.326 MHz | 2.82 dBm<br>-0.64 dB                                 |          | -                        |               |   |
|                   | _        | T    |                |                            |  |          | Measuring                | Consumation ( | 02.09.2014<br>09:37:24                                |

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## Fig. 104 Occupied 6dB Bandwidth (802.11 n-20MHz, Ch 6)



| Spec<br>Ref L  | ctrun<br>.evel | n<br>20.0 | 0 dBn | n                          | RBW 100 kHz |          |                |            |  |
|----------------|----------------|-----------|-------|----------------------------|-------------|----------|----------------|------------|--|
| Att<br>TDF     |                |           | 40 di | SWT 1 ms                   | VBW 300 kHz | Mode Aut | to Sweep       |            |  |
| 1Pk            | Max            |           |       |                            |             |          |                |            |  |
| 10 dB<br>0 dBm | m              |           |       | M3 to                      | havelow     | M2       | D3[1]<br>M1[1] | J          | 0.52 df<br>15.3690 MH<br>-3.34 dBn<br>2.4542290 GH |
| -10 di         | Bm             | 01 -      | 2,860 | dBm to a start             |             | Y        |                | - and      |  |
| -20 di         | Bm             | ~~        | w     |                            |             |          |                |            | Intraveran   |
| -40 di         | Bm—            |           |       |                            |             |          |                |            |  |
| -50 di         | Bm—            |           |       |                            |             |          |                |            |  |
| -60 di         | Brn-           |           |       |                            |             | _        |                |            |  |
| -70 di         | Bm—            |           |       |                            |             |          |                |            |  |
| CF 2.          | 462 (          | GHz       |       |                            |             | 691 pts  |                | 13 NJ      | Span 30.0 MHz                                      |
| Mark           | (er            |           |       |                            |             |          | -11-           |            |  |
| No 1           | Гуре           | Ref       | Trc   | Stimulus                   | Response    | Function |                | Function R | esult  |
| 1              | N1             |           | 1     | 2.454229 GHz               | -3.34 dBm   |          | -              |            |  |
| 3              | N2<br>D3       | N1        | 1     | 2.463259 GHz<br>15.369 MHz | 0.52 dB     |          |                |            |  |
|                |                | T         |       |                            |             |          | teasuring      | QARABAR .  | 02.09.2014   |

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### Fig. 106 Occupied 6dB Bandwidth (802.11n-40MHz, Ch 3)



| Spe               | ectrun   | n    | ٦              |                            |                      |                  |                                      |                 |   |
|-------------------|----------|------|----------------|----------------------------|----------------------|------------------|--------------------------------------|-----------------|---|
| Ref<br>Att<br>TDF | Level    | 20.0 | 0 dBn<br>40 di | n<br>B <b>SWT</b> 1.1 m:   | RBW 100 kH           | iz<br>Iz Mode At | uto Sweep                            |                 |   |
| D 1P              | < Max    |      |                |                            |                      |                  |                                      |                 |   |
| 10 d<br>0 dB      | 8m       | D1 - | 3 910          |                            | mulatedutited        | M2               | D3[1]<br>M1[1]<br>Jufferhal and file | 2.              | -0.45 dE<br>34.7320 MHz<br>-4.28 dBm<br>4198940 GHz |
| -10 (             | dBm      |      |                | 1                          |                      | -V               |                                      |                 |   |
| -20               | dBm      | noun | ur             | 1                          |                      |                  |                                      | have            | durnumer  |
| -40 (             | dBm—     |      |                |                            |                      | _                |                                      |                 |   |
| -50 (             | dBm—     |      |                |                            |                      |                  |                                      |                 |   |
| -60               | dBm      |      |                |                            |                      | _                |                                      |                 |   |
| -70 (             | dBm      |      |                |                            |                      | _                |                                      |                 |   |
| CF 2              | 2.437 (  | GHz  |                | <u> </u>                   |                      | 691 pts          |                                      | Sp              | an 60.0 MHz   |
| Mar               | rker     |      |                |                            |                      |                  |                                      |                 |   |
| No                | Туре     | Ref  | Trc            | Stimulus                   | Response             | Function         | F                                    | Function Result |   |
| 1                 | N1       |      | 1              | 2.419894 GHz               | -4.28 dBm            |                  |                                      |                 |   |
| 2                 | N2<br>D3 | N7   | 1              | 2,440734 GHz<br>34,732 MHz | 1.10 dBm<br>-0.45 dB |                  | -                                    |                 |   |
| _                 |          | 71   | _              |                            |                      | M                | easuring 👔                           | LANDIA 🖬 🦇      | 82.09.2014  |

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## Fig. 108 Occupied 6dB Bandwidth (802.11n-40MHz, Ch 9)



| Ref Lo<br>Att<br>Count | evel<br>t 100/ | 0.00<br>2<br>100 | dBm<br>0 dB<br>TI | SWT<br>DF | 18.9 į | JS 🖷 | RBW<br>VBW | 100 kH<br>300 kH | z<br>z Mode | Auto FFT |    |         |        |            |
|------------------------|----------------|------------------|-------------------|-----------|--------|------|------------|------------------|-------------|----------|----|---------|--------|------------|
| 1Rm                    | AvgLo          | g                |                   |           |        |      |            |                  |             |          |    |         |        |            |
|                        |                |                  |                   |           |        |      |            |                  |             | M1[1]    |    |         |        | -45.44 dBr |
| -10 dB                 | m—             |                  |                   | -         |        | _    |            |                  | -           | 1        |    |         | 2.40   | 1000000 GH |
| -20 dB                 | m              |                  |                   | -         | -      |      |            |                  | _           | _        |    |         |        |            |
| 30 dB                  | m—             |                  |                   |           |        |      |            |                  | _           | _        |    | -       |        | -          |
| 40 d8                  | m-             |                  |                   | ~         | -      | -    | -          |                  | MI          |          |    | -       |        |            |
| 50 dB                  | m              |                  | -                 |           |        | _    |            |                  |             | -        | i. | _       |        |            |
| 60 dB                  | m              |                  |                   |           | _      |      |            |                  | _           | _        |    | -       |        |            |
| 70 dB                  | m              |                  |                   |           | -      |      |            |                  | _           |          |    | -       |        | -          |
| -80 dB                 | m—             |                  | -                 |           | -      |      |            |                  |             |          |    | -       |        |            |
| 90 dB                  | m              |                  |                   |           |        |      |            |                  | _           |          | _  |         |        | -          |
| CF 2.4                 | 4 GHz          | 6                | _                 |           |        | _    |            |                  | 691 pts     |          |    |         | Sp     | an 2.0 MHz |
| Marke                  | er             | 0.0              | <b>T</b>          |           |        |      |            |                  | 5           | r        |    |         | 0      |            |
| 1                      | N1             | Ket              | 1                 | stin      | 2.4 GH | z    | -45.4      | 4 dBm            | Band Powe   | r        | F  | unction | Result | -31.71 dBm |

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Fig. 110 Band Edges (802.11b, Ch 11)



| Ref Lo<br>Att<br>Count | evel<br>: 100/ | 0.00<br>2<br>100 | dBm<br>0 dB<br>TE | SWT  | 18.9 į | 15 . | RBW<br>VBW | 100 kH<br>300 kH | z<br>z Mode /          | uto FFT       |   |         |           |             |
|------------------------|----------------|------------------|-------------------|------|--------|------|------------|------------------|------------------------|---------------|---|---------|-----------|-------------|
| 1Rm                    | AvgLo          | g                |                   |      |        |      |            |                  |                        |               |   |         |           |             |
|                        |                |                  |                   |      |        |      |            |                  |                        | M1[1]         |   |         | and a     | -48.11 dBr  |
| -10 dB                 | m              |                  |                   |      |        |      |            |                  | -                      | 1             |   | -       | 2.4       | 0000000 GH  |
| -20 dB                 | m              |                  |                   | -    |        |      |            |                  | -                      |               | - | _       | 1         |             |
| -30 dB                 | m              |                  |                   |      |        |      |            |                  |                        | _             |   | +       | -         |             |
| -40 dB                 | m—             |                  |                   | -    |        |      |            |                  | MT                     | _             | _ |         |           | -           |
| SO dB                  | m              | -                | ~~                |      |        | ~    | ~          | -                | -                      | $\rightarrow$ |   |         | -         |             |
| 60 dB                  | m              |                  |                   |      | _      |      |            |                  |                        |               |   | _       |           |             |
| -70 dB                 | m-             |                  |                   |      |        |      |            |                  |                        |               |   | _       |           |             |
| -80 dB                 | m              |                  |                   | _    | -      |      |            |                  |                        |               |   | -       | -         |             |
| 90 dB                  | m              |                  |                   | -    |        |      |            |                  |                        | _             | _ | -       |           |             |
| CF 2.4                 | i GHz          | ŝ                | _                 |      |        |      |            |                  | 691 pts                |               |   |         | S         | pan 2.0 MHz |
| Marke                  | er             |                  | -                 |      |        | -    | -          |                  |                        | -             |   |         |           |             |
| NO T                   | N1             | Ref              | Trc               | Stin | 2.4 GH | 2    | -48.1      | 1 dBm            | Function<br>Band Power | r .           | 3 | Functio | on Result | -37.28 dBm  |

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Fig. 112 Band Edges (802.11g, Ch 11)



| Ref Level 0.00 dBm<br>Att 20 dB SWT 18.9 µs | <ul> <li>RBW 100 kHz</li> <li>VBW 300 kHz</li> <li>Mod</li> </ul> | le Auto FFT |              |
|---|---|-------------|--------------|
| 1Rm AvgLog                                  |   |             |              |
|   |   | M1[1]       | -46.93 dBn   |
| -10 dBm-                                    |   | -1-1-       | 2.4000000 GH |
| -20 dBm-                                    |   |             |              |
| -30 dBm                                     |   |             |              |
| -40 dBm                                     | Mi  |             |              |
| 50 dBm                                      |   |             |              |
| -60 dBm                                     |   |             |              |
| -70 dBm                                     |   |             |              |
| -80 dBm                                     |   |             |              |
| 90 dBm                                      |   |             |              |
| CF 2.4 GHz                                  | 691 pts   |             | Span 2.0 MHz |
| Marker                                      |   |             | di n di      |
| 1 N1 1 2.4 GHz                              | -47.00 dBm Band Po  | ower Fur    | -36.73 dBm   |

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## Fig. 114 Band Edges (802.11 n-20MHz, Ch 11)



| Ref Level         0.00 dBm           Att         20 dB         sw           Count         100/100         TDE | T 18.9 µs | <ul> <li>RBW 100 kH</li> <li>VBW 300 kH</li> </ul> | z<br>Z <b>Mode</b> Auto Fi | FT      |                        |
|---|-----------|--|----------------------------|---------|------------------------|
| 1Rm AvgLog  |           |  |                            |         |                        |
|   |           |  | M1[                        | 1]      | -55.24 dBn             |
| -10 dBm   |           |  | 1                          |         | 2.4000000 GH           |
| -20 dBm   |           |  |                            |         |                        |
| -30 dBm   |           |  | _                          |         |                        |
| -40 dBm   |           |  | _                          |         |                        |
| -50 dBm   |           |  | MI                         | -       |                        |
| -60 dBm-  |           |  |                            |         |                        |
| -70 dBm   | -         |  |                            |         |                        |
| -80 dBm   |           |  |                            |         |                        |
| -90 dBm-  |           |  | _                          |         |                        |
| CF 2.4 GHz  |           |  | 691 pts                    |         | Span 2.0 MHz           |
| Marker  |           |  |                            |         |                        |
| No         Type         Ref         Trc         Sti           1         N1         1         1                | 2.4 GHz   | -55,16 dBm   | Function<br>Band Power     | Functio | n Result<br>-44.40 dBm |

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Date: 2.SEP.2014 10:02:13

## Fig. 116 Band Edges (802.11 n-40MHz, Ch 9)









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| Ref Level 10.00 dBm    | RBW 100 kHz                   |  |   | [ ~           |
|------------------------|-------------------------------|--|---|---------------|
| Att 30 dB SWT 1        | 50 ms 🖷 VBW 300 kHz           | Mode Auto Sweep  |   |               |
| TDF                    |                               | 11   |   |               |
| 1Pk Max                |                               | 1  |   | 1             |
| 0 d8m                  |                               |  |   |               |
| -10 dBm-01 -11.560 dBm |                               |  |   |               |
| 20 dBm-                |                               |  | 0   |               |
| -30 dBm                | 1 1 4 10 10 10 10 10 10 10 10 | and the second   |   | wanter which  |
| 40 dBm                 | want martin martine           | and a the source of the second s | mound   |               |
| 50 dBm-                |                               |  |   | _             |
| 60 dBm                 | -                             |  |   |               |
| -70 dBm                |                               |  |   |               |
| 80 dBm                 |                               |  |   |               |
| Start 3.0 GHz          | 69                            | 1 pts  |   | Stop 18.0 GHz |
|                        |                               | Measuring  | ALALMAN AN A | 82.09.2014    |















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# Fig. 123 Conducted Spurious Emission (802.11b, Ch11, Center Frequency)



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| Ref Level 10.00 dBm    | RBW 100 kHz         |                         |             | 1            |
|------------------------|---------------------|-------------------------|-------------|--------------|
| Att 30 dB SWT 1        | 50 ms 🖷 VBW 300 kHz | Mode Auto Sweep         |             |              |
| TDF                    |                     | 10                      |             |              |
| 1Pk Max                | 1 1                 |                         |             |              |
| 0 dBm                  |                     |                         |             |              |
| -10 dBm-01 -11.370 dBm |                     |                         |             |              |
| 20 dBm                 |                     |                         | 7           |              |
| 30 dBm                 |                     |                         | de advante  | mmm          |
| 40 dBm                 | a hu hu al hard and | Man Million Constraints | how         |              |
| 50 dBm                 |                     |                         |             |              |
| 60 dBm                 |                     |                         |             |              |
| 70 dBm                 |                     |                         |             |              |
| 80 dBm                 |                     |                         |             |              |
| Start 3.0 GHz          | 691                 | pts                     | S           | top 18.0 GHz |
| T                      |                     | Measuring               | RARANAN 🖬 🚧 | 82.09.2014   |









| IPk Max       M1[1]       1.1         0 dBm       1.1       2.417         -10 dBm       1.1       1.1         -20 dBm       1.1       1.1         -20 dBm       1.1       1.1         -30 dBm       1.1       1.1         -50 dBm       1.1       1.1         -60 dBm       1.1       1.1         -70 dBm       1.1       1.1         -80 dBm       1.1       1.1  | Ref Level<br>Att<br>TDF | 10.00 dBm<br>30 dB | SWT 2        | ● RBV<br>9.7 ms ● VBV | V 100 kHz<br>V 300 kHz | Mode Aut | to Sweep   |   |         |                      |
|--|-------------------------|--------------------|--------------|-----------------------|------------------------|----------|------------|---|---------|----------------------|
| 0 dBm     1.1       -10 dBm     1.1       -10 dBm     1.1       -20 dBm     01 -17.070 dBm       -30 dBm     -10       -50 dBm     -10       -60 dBm     -10       -70 dBm     -10   | 1Pk Max                 |                    |              |                       |                        |          |            |   |         |                      |
| 0 dBm<br>-10 dBm<br>-20 dBm<br>-30 dBm<br>-30 dBm<br>-30 dBm<br>-50 d |                         |                    |              |                       |                        | M        | 1[1]       | N | 11      | 1.34 dB<br>2.41760 G |
| -10 dBm<br>-20 dBm<br>-30 dBm<br>-30 dBm<br>-30 dBm<br>-70 | 0 dBm                   |                    | -            | -                     |                        |          |            | 1 | (       |                      |
| -10 dBm  |                         |                    |              |                       |                        |          |            |   |         |                      |
| 20 dBm     21 - 17.070 dBm     20 dBm       -30 dBm  | -10 dBm                 |                    | -            | -                     |                        |          |            |   |         |                      |
| -20 dBm<br>-30 dBm<br>-30 dBm<br>-50 dBm<br>-70 dBm<br>-80 dBm   |                         | 01 -17.070         | dBm          | -                     |                        |          |            |   |         |                      |
| -30 dBm  | -20 dBm                 |                    | 1            |                       |                        |          |            | 0 |         |                      |
| 199 dBm  | -30 dBm                 |                    |              | _                     |                        |          |            |   |         |                      |
| 49 dBm   | 3233118252              |                    |              |                       |                        |          |            |   | 1 monte | to a state of the    |
| -50 dBm  | HAD dBitmond            | 1 wow Wadynes      | a strates de | and a change of the   | an Asia had a sure     | Humber   | C. Martine |   | Marana  | anna charlen         |
| -50 dBm  | 44 646                  |                    |              |                       |                        |          |            |   |         |                      |
| -60 dBm  | -50 dBm                 |                    |              |                       |                        |          |            |   |         |                      |
| -70 dBm  | -60 dBm                 |                    |              |                       |                        |          |            |   |         | -                    |
| -70 dBm  | 15-17-17-17-18-5-1      |                    |              |                       |                        |          |            |   |         |                      |
| -80 dBm  | -70 dBm                 |                    |              |                       |                        |          |            |   | -       |                      |
| -80 dBm  | ener en cos             |                    |              |                       |                        |          |            |   |         |                      |
|  | -80 dBm                 |                    | (a)          |                       |                        |          | -          |   | -       |                      |
|  |                         |                    |              |                       |                        |          |            |   |         |                      |
| Start 30.0 MHz 691 pts Stop 3.   | Start 30.0              | MHz                |              |                       | 691                    | pts      |            | - |         | Stop 3.0 GH          |





Date: 2.SEP.2014 14:07:19







## Fig. 129 Conducted Spurious Emission (802.11g, Ch6, Center Frequency)



Date: 2.SEP.2014 14:08:40





| Ref Level 10.00 dBm | 🖷 RBW              | 100 kHz            |                         |                                  |
|---------------------|--------------------|--------------------|-------------------------|----------------------------------|
| Att 30 dB           | SWT 150 ms 🖷 VBW 🗄 | 300 kHz Mode Aut   | o Sweep                 |                                  |
| TDF<br>TDF          |                    |                    |                         |                                  |
| TEK MOX             |                    |                    |                         |                                  |
| 0 dBm-              |                    |                    |                         |                                  |
| -10 dBm             |                    |                    |                         |                                  |
| 20 dBm              | m                  |                    |                         |                                  |
| -30 dBm             |                    |                    |                         | 1                                |
| How dem-            | manderally amount  | manufit madile and | helperson and helperson | and a construction of the course |
| -50 dBm             |                    |                    |                         |                                  |
| -60 dBm             |                    |                    |                         |                                  |
| -70 dBm             |                    |                    |                         |                                  |
| 80 dBm-             |                    |                    |                         |                                  |
|                     |                    |                    |                         |                                  |
| Start 3.0 GHz       |                    | 691 pts            |                         | Stop 18.0 GHz                    |















Date: 2.SEP.2014 14:10:01































Fig. 140 Conducted Spurious Emission (802.11n-20M, Ch6, 3 GHz-18 GHz)





Fig. 141 Conducted Spurious Emission (802.11n-20M, Ch11, Center Frequency)







| Ref Level 10.00 dBm | 👄 RB             | W 100 kHz     | 12 T          |                       |               |
|---------------------|------------------|---------------|---------------|-----------------------|---------------|
| Att 30 dB           | SWT 150 ms 🖷 VB  | W 300 kHz Mod | le Auto Sweep |                       |               |
| 1Pk Max             |                  | 1 1           | 10            |                       | 1             |
| 0 dBm               |                  |               |               |                       |               |
| -10 dBm             |                  |               |               |                       |               |
| 20 dBm 01 -17.260 d | Bm               |               |               |                       |               |
| -30 dBm             | edower hand here | merennoanter  | masterature   | and a have more thank | montim        |
| -50 dBm             |                  |               |               |                       |               |
| 60 dBm              |                  |               |               |                       |               |
| 70 dBm              |                  |               |               |                       |               |
| -80 dBm             | -                |               |               |                       |               |
| Start 3.0 GHz       |                  | 691 pts       |               |                       | Stop 18.0 GHz |





Fig. 144 Conducted Spurious Emission (802.11n-40M, Ch3, Center Frequency)















Fig. 147 Conducted Spurious Emission (802.11n-40M, Ch6, Center Frequency)



Fig. 148 Conducted Spurious Emission (802.11n-40M, Ch6, 30 MHz-3 GHz)

Fig. 149 Conducted Spurious Emission (802.11n-40M, Ch6, 3 GHz-18 GHz)





Fig. 150 Conducted Spurious Emission (802.11n-40M, Ch9, Center Frequency)



Fig. 151 Conducted Spurious Emission (802.11n-40M, Ch9, 30 MHz-3 GHz)



| Ref Level 10.00 dBm      | 🖷 RBW            | 100 kHz          |             |                          |             |
|--------------------------|------------------|------------------|-------------|--------------------------|-------------|
| Att 30 dB                | SWT 150 ms 🖷 VBW | 300 kHz Mode     | Auto Sweep  |                          |             |
| TDF                      |                  |                  |             |                          |             |
| 1PK Max                  |                  |                  |             |                          |             |
| 0 dBm                    |                  |                  |             |                          | <u>.</u>    |
| 10 dBm                   |                  |                  |             |                          |             |
| 20 dBm 01 -21.800 dB     | m                |                  |             |                          |             |
| 30 dBm                   |                  |                  |             | a a success              | Hen An west |
| unpetrondurtuettellennos | umulture         | nautorabilitican | fundamental | averation the section of | 00- V ~VIV  |
| -50 dBm                  |                  |                  |             |                          |             |
| 60 dBm                   |                  |                  |             |                          | -           |
| 70 dBm                   |                  |                  |             |                          |             |
| 80 dBm                   |                  |                  |             |                          |             |
|                          |                  |                  |             |                          | 10.0.014    |
| start 3.0 GHZ            |                  | 691 pts          |             | Sto                      | p 18.0 GH2  |





Fig. 153 Conducted Spurious Emission (All channels, 18 GHz-26 GHz)









FCC-RE2-1-18G-PEAK+AV

Fig. 155 Radiated Spurious Emission (802.11b, Ch1, 1 GHz-18 GHz)





## Fig. 156 Radiated Spurious Emission (802.11b, Ch6, 30MHz-1 GHz)



FCC-RE2-1-18G-PEAK+AV





Fig. 157 Radiated Spurious Emission (802.11b, Ch6, 1 GHz-18 GHz)

## Fig. 158 Radiated Spurious Emission (802.11b, Ch11, 30MHz-1 GHz)



FCC-RE2-1-18G-PEAK+AV



Fig. 159 Radiated Spurious Emission (802.11b, Ch11, 1 GHz-18 GHz)

Fig. 160 Radiated Emission Power (802.11b, Ch1, 2380GHz~2450GHz)



Fig. 161 Radiated Emission Power (802.11b, Ch11, 2450GHz~2500GHz)









FCC-RE2-1-18G-PEAK+AV

Fig. 163 Radiated Spurious Emission (802.11g, Ch1, 1 GHz-18 GHz)





## Fig. 164 Radiated Spurious Emission (802.11g, Ch6, 30MHz-1 GHz)



#### FCC-RE2-1-18G-PEAK+AV

Fig. 165 Radiated Spurious Emission (802.11g, Ch6, 1 GHz-18 GHz)





# Fig. 166 Radiated Spurious Emission (802.11g, Ch11, 30MHz-1 GHz)



FCC-RE2-1-18G-PEAK+AV

Fig. 167 Radiated Spurious Emission (802.11g, Ch11, 1 GHz-18 GHz)



FCC-RE2-BAND Edge-Low Band FCC-Limit Linemy/ym Fewel timit-O -ra Frequency in MHz

## Fig. 168 Radiated Emission Power (802.11g, Ch1, 2380GHz~2450GHz)



FCC-RE2-BAND Edge-High Band

# Fig. 169 Radiated Emission Power (802.11g, Ch11, 2450GHz~2500GHz)









Fig. 171 Radiated Spurious Emission (802.11n-20M, Ch1, 1 GHz-18 GHz)









FCC-RE2-1-18G-PEAK+AV

Fig. 173 Radiated Spurious Emission (802.11n-20M, Ch6, 1 GHz-18 GHz)









Fig. 175 Radiated Spurious Emission (802.11n-20M, Ch11, 1 GHz-18 GHz)



FCC-RE2-BAND Edge-Low Band







Fig. 177 Radiated Emission Power (802.11n-20M, Ch11, 2450GHz~2500GHz)









FCC-RE2-1-18G-PEAK+AV

Fig. 179 Radiated Spurious Emission (802.11n-40M, Ch3, 1 GHz-18 GHz)









Fig. 181 Radiated Spurious Emission (802.11n-40M, Ch6, 1 GHz-18 GHz)









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FCC-RE2-1-18G-PEAK+AV
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Fig. 183 Radiated Spurious Emission (802.11n-40M, Ch9, 1 GHz-18 GHz)



FCC-RE2-BAND Edge-Low Band



Fig. 184 Radiated Emission Power (802.11n-40M, Ch3, 2380GHz~2450GHz)



Fig. 185 Radiated Emission Power (802.11n-20M, Ch9, 2450GHz~2500GHz)

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Fig. 186 Radiated emission: 18 GHz - 26 GHz

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| Frequency<br>(MHz) | QuasiPeak<br>(dBµV) | PE  | Line | Corr.<br>(dB) | Margin<br>(dB) | Limit<br>(dBµV) |
|--------------------|---------------------|-----|------|---------------|----------------|-----------------|
| 0.642000           | 44.4                | FLO | L1   | 10.0          | 11.6           | 56.0            |
| 0.698000           | 42.5                | FLO | L1   | 10.0          | 13.5           | 56.0            |
| 0.750000           | 44.0                | FLO | L1   | 10.0          | 12.0           | 56.0            |
| 0.802000           | 43.4                | FLO | L1   | 10.1          | 12.6           | 56.0            |
| 0.862000           | 39.4                | FLO | L1   | 10.0          | 16.6           | 56.0            |
| 0.906000           | 43.2                | FLO | L1   | 10.1          | 12.8           | 56.0            |

## MEASUREMENT RESULT: " QuasiPeak "

## MEASUREMENT RESULT: " Average "

| Frequency<br>(MHz) | CAverage<br>(dBµV) | PE  | Line | Corr.<br>(dB) | Margin<br>(dB) | Limit<br>(dBµV) |
|--------------------|--------------------|-----|------|---------------|----------------|-----------------|
| 0.698000           | 29.5               | FLO | L1   | 10.0          | 16.5           | 46.0            |
| 0.750000           | 31.4               | FLO | L1   | 10.0          | 14.6           | 46.0            |
| 0.802000           | 33.0               | FLO | L1   | 10.1          | 13.0           | 46.0            |
| 0.862000           | 27.6               | FLO | L1   | 10.0          | 18.4           | 46.0            |
| 0.914000           | 25.1               | FLO | L1   | 10.1          | 20.9           | 46.0            |
| 0.966000           | 23.0               | FLO | L1   | 10.1          | 23.0           | 46.0            |

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|  | MEASUREMENT | <b>RESULT:</b> | " QuasiPeak |
|--|-------------|----------------|-------------|
|--|-------------|----------------|-------------|

| Frequency<br>(MHz) | QuasiPeak<br>(dBµV) | PE  | Line | Corr.<br>(dB) | Margin<br>(dB) | Limit<br>(dBµV) |
|--------------------|---------------------|-----|------|---------------|----------------|-----------------|
| 0.750000           | 48.2                | FLO | L1   | 10.0          | 7.8            | 56.0            |
| 0.782000           | 44.6                | FLO | L1   | 10.1          | 11.4           | 56.0            |
| 0.810000           | 44.8                | FLO | L1   | 10.1          | 11.2           | 56.0            |
| 0.826000           | 49.4                | FLO | L1   | 10.0          | 6.6            | 56.0            |
| 0.886000           | 24.1                | FLO | L1   | 10.1          | 31.9           | 56.0            |
| 0.914000           | 23.9                | FLO | L1   | 10.1          | 32.1           | 56.0            |

# MEASUREMENT RESULT: " Average "

| Frequency<br>(MHz) | CAverage<br>(dBµV) | PE  | Line | Corr.<br>(dB) | Margin<br>(dB) | Limit<br>(dBµV) |
|--------------------|--------------------|-----|------|---------------|----------------|-----------------|
| 0.678000           | 33.5               | FLO | L1   | 10.0          | 12.5           | 46.0            |
| 0.730000           | 35.2               | FLO | L1   | 10.0          | 10.8           | 46.0            |
| 0.754000           | 35.0               | FLO | L1   | 10.1          | 11.0           | 46.0            |
| 0.782000           | 34.4               | FLO | L1   | 10.1          | 11.6           | 46.0            |
| 0.834000           | 7.3                | FLO | L1   | 10.0          | 38.7           | 46.0            |
| 0.886000           | 8.3                | FLO | L1   | 10.1          | 37.7           | 46.0            |

## \*\*\* END OF REPORT BODY \*\*\*