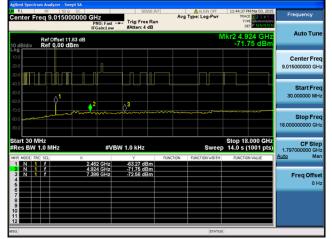


# Conducted Spurs Average, 2462 MHz, HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss



| ent Spectrum Analyzer - Swept SA<br>RL RF 50.0 DC | SENSE:INT   | ALIGN OFF 11:47:51 PM Ma            | 03, 2015                     |
|---|---|-------------------------------------|------------------------------|
| enter Freq 9.015000000                            |   | Avg Type: Log-Pwr TRACE             |                              |
| Ref Offset 11.83 dB<br>dB/div Ref 0.00 dBm        | Poancow Pricent 4 0D  | Mkr2 4.924<br>-71.71                | GHz Auto Tun<br>dBm          |
|   |   |                                     | Center Fre<br>9.015000000 GH |
|   | A2 A3   |                                     | Start Fre<br>30.000000 MH    |
|   |   |                                     | Stop Fre<br>18.000000000 GH  |
| art 30 MHz<br>es BW 1.0 MHz                       | #VBW 1.0 kHz  | Stop 18.00<br>Sweep 14.0 s (100     | 1 pts) 1.797000000 GH        |
| N 1 F 4   | 2.462 GHz 63.93 dBm<br>1.924 GHz -71.71 dBm<br>7.386 GHz -72.55 dBm | FUNCTION FUNCTION WIDTH FUNCTION VA | Freq Offse                   |
|   |   |                                     |                              |
|   |   | STATUS                              |                              |

Antenna A

| Ber Offset 11 83 dB         MIRT 2 4,923 GHZ           000000000000000000000000000000000000  | 11:51:02 PM Mar 03, 2015<br>TRACE 12 3 4 5 0<br>TYPE<br>DET PINISTITIO | N OFF<br>g-Pwr | Type: Lo | Av       | e Run<br>dB | Free  |       | GHz<br>PNO: Fa | 00000          | 9.0150               | req 1      | er Fi        | ent        |
|--|--|----------------|----------|----------|-------------|-------|-------|----------------|----------------|----------------------|------------|--------------|------------|
| Cent<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.01600<br>9.0100<br>9.0100<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.010<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.000<br>9.0000<br>9.0000<br>9.0000<br>9.0000<br>9.000<br>9.0000<br>9.0000<br>9 |  | M              |          |          |             |       |       |                | 1.83 dB<br>IBm | Offset 1<br>f 0.00 d | Ref<br>Ref | /div         | dB         |
| Image: State   | Cente:<br>9.01500000   |                |          |          |             |       | — n   | , ſL           |                |                      | • •        | <b>1</b> 111 | ).0<br>).0 |
| art 30 MHz<br>see SW 1.0 MHz<br>#VBW 1.0 KHz<br>#VBW 1.0 KHZ<br>#V   | Star<br>30.00000   |                |          |          |             |       |       |                |                | _⊔⊔  <br>^1          |            |              | 1.0        |
| V         I  | Stop<br>18.0000000   | ~~~~~          | ~~~~~    |          |             | ~~~   | l     |                | m              | ~_~                  |            |              | 1.0        |
| N 1 f 4924 GHz -71.43 dBm<br>N 1 f 7.386 GHz -72.79 dBm Free   | p 14.0 s (1001 pts) 1.79700000   | Sweep          |          | FUNCTION |             | κHz   |       | #              | ×              |                      | 1.0        | BW           | les        |
|  | Freq   |                |          |          | 3m          | 43 dE | -71.4 | 4.924 GH       |                |                      |            |              | 3          |
|  |  |                |          |          |             |       |       |                |                |                      |            |              |            |

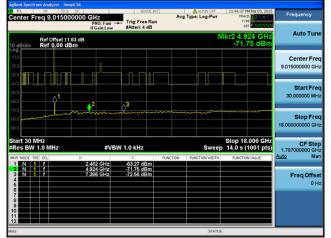
Antenna C

Antenna B

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# Conducted Spurs Average, 2462 MHz, HT/VHT20 Beam Forming, M16 to M23, M0 to M9 3ss



| gilent Spectrum Analyzer - Swept SA          |            |   |                                |   |                              |
|--|------------|---|--------------------------------|---|------------------------------|
| enter Freq 9.01500000                        |            | SENSE:INT                                       | ALIGN OFF<br>Avg Type: Log-Pwr | 11:47:51 PM Mar 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE | Frequency                    |
| Ref Offset 11.83 dB<br>0 dB/div Ref 0,00 dBm | IFGain:Low | #Atten: 4 dB                                    | N                              | 1kr2 4.924 GHz<br>-71.71 dBm                        | Auto Tune                    |
|  |            |   |                                |   | Center Fre<br>9.015000000 GH |
|  | A2         | 3   |                                |   | Start Free<br>30.000000 MH   |
|  |            | ~~~~~~  |                                |   | Stop Fre<br>18.000000000 GH  |
| tart 30 MHz<br>Res BW 1.0 MHz                | #VBW 1     | .0 kHz  | Sweep                          | Stop 18.000 GHz<br>14.0 s (1001 pts)                | CF Ste<br>1.797000000 GH     |
| 2 N 1 f<br>3 N 1 f<br>4                      | 4.924 GHz  | Y FUNC<br>63.93 dBm<br>-71.71 dBm<br>-72.55 dBm | TION FUNCTION WIDTH            | FUNCTION VALUE                                      | Auto Ma<br>Freq Offse<br>0 H |
| 6<br>7<br>8<br>9<br>0<br>1                   |            |   |                                |   |                              |
| G  |            |   | STATUS                         |   |                              |

Antenna A

|                                | DOO GHZ<br>PNO: Fast<br>IFGain:Low       | Trig: Free Run<br>#Atten: 4 dB              | Avs         | ) Type: Log-Pwr                        | TRACE 23456<br>TYPE WINNINN<br>DET P NNNNN  | Frequency                    |
|--------------------------------|--|---|-------------|--|---|------------------------------|
| ef Offset 11.83<br>ef 0.00 dBm | dB                                       |   |             | Ν                                      | 1kr2 4.924 GHz<br>-71.43 dBm  | Auto Tune                    |
|                                | , <sub>o</sub> l                         |   |             |  |   | Center Fre<br>9.015000000 GH |
| ↓ UI U II ↓<br>↓ ↓1            |  |   |             |  |   | Start Fre<br>30.000000 M⊦    |
|                                |  | ~ Queen en |             | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |   | Stop Fre<br>18.000000000 GH  |
|                                | #VB                                      | W 1.0 kHz                                   |             | Sweep                                  | Stop 18.000 GHz<br>14.0 s (1001 pts)  | CF Ste<br>1.797000000 GH     |
|                                | ×<br>2.462 GHz<br>4.924 GHz<br>7.386 GHz | 4<br>-63.58 dBm<br>-71.43 dBm<br>-72.79 dBm | FUNCTION    | FUNCTION WIDTH                         | FUNCTION VALUE  | Auto Ma<br>Freq Offse<br>0 H |
|                                |  |   |             |  |   |                              |
|                                | ef 0.00 dBm                              | MHz #VB                                     | ef 0.00 dBm | ef 0.00 dBm                            | MHz #VBW 1.0 kHz Sweep<br>MHz #VBW 1.0 kHz Sweep<br>4 2462 cHz 35 85 80<br>4 442 cHz 37 43 80<br>6 1 2422 cHz 37 43 80<br>1 2420 cHz 37 47 43 80<br>1 2420 cHz 37 43 80<br>1 2420 cHz 37 47 43 80<br>1 2420 cHz 37 48 80<br>1 2420 cHz 38 80<br>1 2420 cHz 38 80<br>1 2420 cHz 38 80<br>1 24 | -71.43 dBm                   |

Antenna C

Antenna B

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# Conducted Spurs Average, 2462 MHz, HT/VHT20 STBC, M0 to M7



| gilent Spectrum Analyzer - Swept SA<br>RL RF 50.0 DC   |                                     | SENSE:INT                              | ALIGN OFF               | 11:47:51 PM Mar 03, 2015     |                                     |
|--|-------------------------------------|--|-------------------------|------------------------------|-------------------------------------|
| Center Freq 9.01500000   | 0 GHz<br>PNO: Fast ↔<br>IFGain:Low  |  | Avg Type: Log-Pwr       | TRACE                        | Frequency                           |
| Ref Offset 11.83 dE<br>0 dB/div Ref 0.00 dBm   |                                     |  |                         | Mkr2 4.924 GHz<br>-71.71 dBm | Auto Tune                           |
|  |                                     |  |                         |                              | Center Free<br>9.015000000 GH       |
|  |                                     |  |                         |                              | Start Free<br>30.000000 MH          |
| 80.0   |                                     | ×                                      |                         |                              | Stop Free<br>18.000000000 GH        |
| tart 30 MHz<br>Res BW 1.0 MHz  |                                     | V 1.0 kHz                              | Swee                    |                              | CF Ste<br>1.797000000 GH<br>Auto Ma |
| KKR         MODE         TRC         SCL         X           1         N         1         f         1           2         N         1         f         1           3         N         1         f         1           4         1         f         1         f           6         1         1         f         1 | 2.462 GHz<br>4.924 GHz<br>7.386 GHz | -63.93 dBm<br>-71.71 dBm<br>-72.55 dBm | FUNCTION FUNCTION WIDTH | FUNCTION VALUE               | Auto Ma<br>FreqOffse<br>0 H         |
| 6<br>7<br>8<br>9<br>10   |                                     |  |                         |                              |                                     |
| 30   |                                     |  | STATU                   | s                            |                                     |

Antenna B

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# cisco

# Conducted Spurs Average, 2462 MHz, HT/VHT20 STBC, M0 to M7



| ~~~~~             | sAtten: 4 c                                   |               |                |                |                                | 2 4.924               |                                | Auto Tu<br>Center Fi<br>9.015000000 0<br>Start Fr<br>30.000000 N<br>Stop Fr<br>18.00000000 0 |
|-------------------|---|---------------|----------------|----------------|--------------------------------|-----------------------|--------------------------------|--|
| ~~~~~             | <br>2 <sup>3</sup>                            | <b>↓</b>      |                |                |                                |                       |                                | 9.015000000 0<br>Start Fr<br>30.000000 N<br>Stop Fr  |
| ~~~~~             | 2 <sup>3</sup>                                |               |                |                | ,                              |                       |                                | 30.000000 N<br>Stop Fr   |
| ~~~~~             | <u>,                                     </u> | ~~~~~         |                |                |                                |                       |                                |  |
|                   |   |               |                |                |                                |                       |                                | 18.000000000   |
| #VBW              | 1.0 kHz                                       |               |                |                | veep 14                        | op 18.00<br>I.0 s (10 | 001 pts)                       | CF St<br>1.797000000 G<br>Auto N   |
| GHz<br>GHz<br>GHz | -71.71 dB                                     | m<br>m        | CTION          | FUNCTION W     |                                | FUNCTION V            | ALUE                           | Freq Off   |
|                   |   |               |                |                |                                |                       |                                |  |
| 1                 | GHz   | GHz -71.71 dB | GHz -71.71 dBm | GHz -71.71 dBm | GHz -7171 dBm<br>GHz -7255 dBm | GHz -71.71 dBm        | GHz -7171 dBm<br>GHz -7255 dBm | GHz -71,71 dBm   |

Antenna B

| Antenna A |  |
|-----------|--|
|-----------|--|

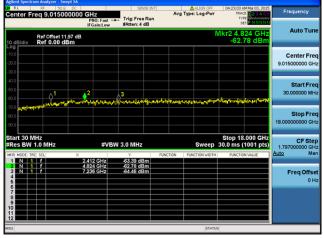
| RL RF 50.0 DC<br>nter Freq 9.015000000           | CHZ<br>PNO: Fast                    | Trig: Free Run<br>#Atten: 4 dB         | Avg      | ALIGN OFF<br>Type: Log-Pwr | 11:51:02 PM Mar 03, 2015<br>TRACE 2 3 4 5 0<br>TYPE<br>DET PNNNNN | Frequency                           |
|--|-------------------------------------|--|----------|----------------------------|---|-------------------------------------|
| Ref Offset 11.83 dB<br>dB/div Ref 0.00 dBm       |                                     |  |          | N                          | lkr2 4.924 GHz<br>-71.43 dBm                                      | Auto Tun                            |
|  |                                     |  |          |                            |   | Center Fre<br>9.015000000 GH        |
|  |                                     | ↓↓↓↓↓↓<br>∧3                           |          |                            |   | Start Fre<br>30.000000 MH           |
| 0  |                                     |  |          | ••••••                     |   | Stop Fre<br>18.000000000 GH         |
| art 30 MHz<br>tes BW 1.0 MHz<br>R MODE TRC SCL × | #VB1                                | N 1.0 kHz                              | FUNCTION | Sweep<br>FUNCTION WIDTH    | Stop 18.000 GHz<br>14.0 s (1001 pts)                              | CF Ste<br>1.797000000 GH<br>Auto Ma |
|  | 2.462 GHz<br>4.924 GHz<br>7.386 GHz | -63.58 dBm<br>-71.43 dBm<br>-72.79 dBm |          |                            |   | Freq Offse<br>0 H                   |
|  |                                     |  |          |                            |   |                                     |

Antenna C

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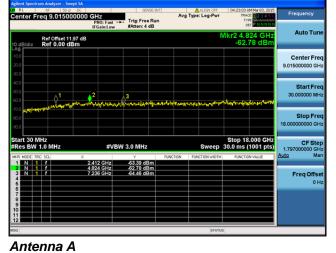
# Conducted Spurs Peak, 2412 MHz, CCK, 1 to 11 Mbps

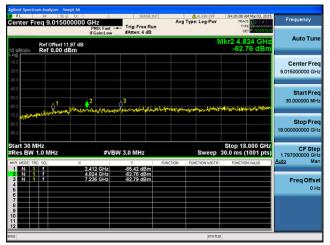


Antenna A

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#### Conducted Spurs Peak, 2412 MHz, CCK, 1 to 11 Mbps





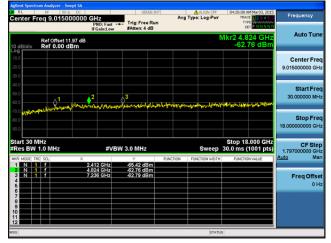
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Antenna B

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#### Conducted Spurs Peak, 2412 MHz, CCK, 1 to 11 Mbps





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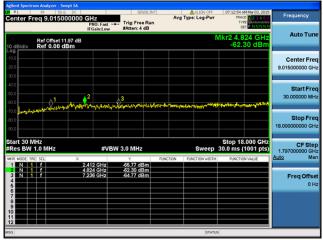
| enter F                              |                        | 000000 GH      | Z<br>NO: Fast           | Trig: Free I                           | E:INT         | Avg  | ALIGN OFF<br>Type: Log-Pwr | 04:29:15 AM M<br>TRACE<br>TYPE | 23456   | Frequency                          |
|--------------------------------------|------------------------|----------------|-------------------------|--|---------------|------|----------------------------|--------------------------------|---------|------------------------------------|
| 0 dB/div                             | Ref Offset<br>Ref 0.00 | IF(            | Sain:Low                | #Atten: 4 d                            | 8             |      | N                          | lkr3 7.236<br>-63.97           |         | Auto Tur                           |
| <b>0</b><br>0.0<br>0.0               |                        |                |                         |  |               |      |                            |                                |         | Center Fre<br>9.015000000 GF       |
| 0.0                                  | 1                      | 2<br>Ref Wyger | inhau                   | 3                                      | وأحاج والبارج |      | المارية والمراجع           | -                              | www     | Start Fre<br>30.000000 Mi          |
| 0.0 <b>Alfred</b> iend<br>0.0<br>0.0 | Male and a second      |                |                         |  |               |      |                            |                                |         | Stop Fre<br>18.00000000 G          |
| tart 30 I<br>Res BW                  | 1.0 MHz                | ×              | #VB                     | W 3.0 MHz                              | FUNC          | TION | Sweep                      | Stop 18.00<br>30.0 ms (10      | 01 pts) | CF Ste<br>1.797000000 GI<br>Auto M |
| 1 N<br>2 N<br>3 N<br>4 5<br>6        | 1                      | 2.41           | 2 GHz<br>4 GHz<br>6 GHz | -64.70 dBr<br>-64.90 dBr<br>-63.97 dBr | n<br>n        |      | POINCTION WIDTH            | PORCHURY                       |         | Freq Offs<br>01                    |
| 8<br>9<br>0                          |                        |                |                         |  |               |      |                            |                                |         |                                    |

Antenna C

Antenna B

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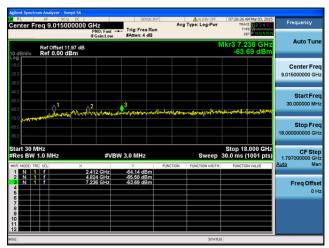
#### Conducted Spurs Peak, 2412 MHz, 6 to 54 Mbps

Antenna A

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Conducted Spurs Peak, 2412 MHz, 6 to 54 Mbps





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Antenna B

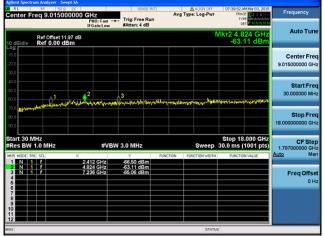
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#### Conducted Spurs Peak, 2412 MHz, 6 to 54 Mbps







Antenna C

| dient Spectrum Analyzer - S<br>RL RF S0<br>enter Freq 9.0150  | R DC                                    | SENSE:INT<br>Trig: Free Run<br>#Atten: 4 dB | ALIGN OFF<br>Avg Type: Log-Pwr | 07:36:32 AM My 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE W | Frequency                              |
|---|---|---|--------------------------------|--|--|
| Ref Offset 1<br>D dB/div Ref 0.00 (   | 1.97 dB<br>dBm                          |   | Ν                              | /lkr3 7.236 GHz<br>-61.53 dBm                        | Auto Tune                              |
|   |   |   |                                |  | Center Freq<br>9.015000000 GHz         |
|   | 2                                       | 3   | الدارين ويوارد والإستيار       | mainter seguritariter                                | Start Freq<br>30.000000 MHz            |
|   |   |   |                                |  | Stop Freq<br>18.00000000 GHz           |
| tart 30 MHz<br>Res BW 1.0 MHz   | #VBV                                    | V 3.0 MHz                                   |                                | Stop 18.000 GHz<br>30.0 ms (1001 pts)                | CF Step<br>1.797000000 GHz<br>Auto Man |
| NR         MODE         TRC         SQL           2         N         1         f           2         N         1         f           3         N         1         f           4         1         f           6 | ×<br>2412 GHz<br>4.824 GHz<br>7.236 GHz | -65.50 dBm<br>-62.47 dBm<br>-61.53 dBm      | PUNCTION VIDTH                 | FUNCTION VALUE                                       | Freq Offset<br>0 Hz                    |

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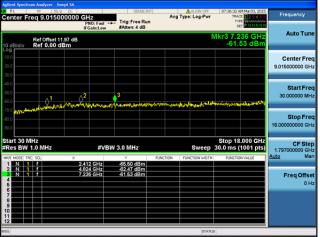
Antenna B

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# cisco



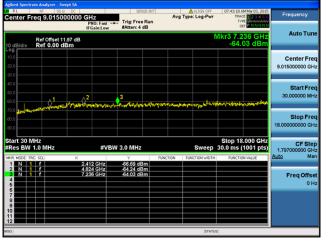


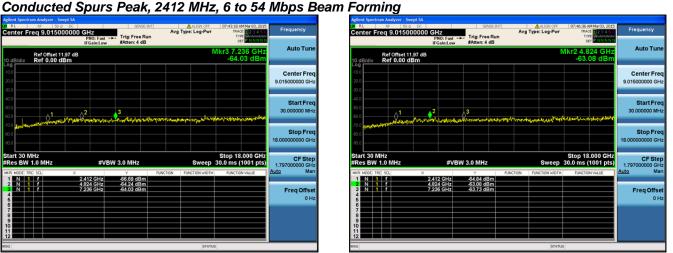


Antenna B

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Antenna A

| enter F                      | req 9.01500                 |                                     | Trig: Free Run<br>#Atten: 4 dB         | Avg                   | ALIGN OFF<br>Type: Log-Pwr | TRAC                 | M Mar 03, 2015<br>E 2 3 4 5 6<br>E 2 1 1 5 6<br>E 2 1 1 5 6<br>E 2 1 1 5 6 | Frequency                    |
|------------------------------|-----------------------------|-------------------------------------|--|-----------------------|----------------------------|----------------------|--|------------------------------|
| 0 dB/div                     | Ref Offset 11<br>Ref 0.00 d | .97 dB                              | Practice 4 ab                          |                       | Ν                          | /kr3 7.2<br>-63.2    | 36 GHz<br>26 dBm   | Auto Tun                     |
| .og<br>10.0<br>20.0<br>30.0  |                             |                                     |  |                       |                            |                      |  | Center Fre<br>9.015000000 GH |
| 40.0<br>50.0<br>60.0         | 1                           | 2<br>2                              | 3                                      | al al second designed | www.ilia.automation        | y let yok toga       | alyystad.  | Start Fre<br>30.000000 M⊦    |
| 70.0 <b></b><br>80.0<br>90.0 |                             |                                     |  |                       |                            |                      |  | Stop Fre<br>18.000000000 GH  |
| start 30 M<br>Res BW         | MHz<br>1.0 MHz              | #VE                                 | W 3.0 MHz                              |                       | Sweep                      | Stop 18<br>30.0 ms ( | .000 GHz<br>1001 pts)  | CF Ste<br>1.797000000 GF     |
|                              | aci sci                     | X                                   | Y                                      | FUNCTION              | FUNCTION WIDTH             | FUNCTIO              | N VALUE  | Auto Ma                      |
| 4KR MODE TP                  | 10 000                      |                                     |  |                       |                            |                      |  |                              |
| 1 N 1<br>2 N 1<br>3 N 1<br>4 | 1 1                         | 2,412 GHz<br>4,824 GHz<br>7,236 GHz | -67.74 dBm<br>-64.75 dBm<br>-63.26 dBm |                       |                            |                      |  | Freq Offs<br>0 F             |
| 1 N 1<br>2 N 1<br>3 N 1      | f<br>f                      | 4.824 GHz                           | -64.75 dBm                             |                       |                            |                      |  |                              |

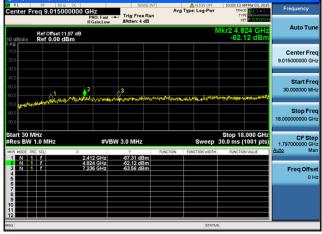
Antenna C

Antenna B

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#### Conducted Spurs Peak, 2412 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss



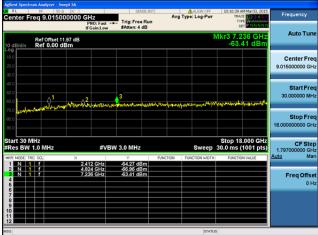


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#### Conducted Spurs Peak, 2412 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss





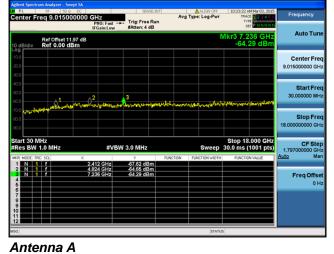
Antenna A

Antenna B

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# Conducted Spurs Peak, 2412 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss



|   | 50 A DC                                  | SENSE:IN                             |                          | ALIGN OFF                      | 10:26:42 AM Mar 03, 2015   | Frequency                     |
|---|--|--------------------------------------|--------------------------|--------------------------------|--|-------------------------------|
| enter Freq 9.01                                       | 5000000 GHz<br>PNO: Fast<br>IEGain:Los   | Trig: Free Run                       | Avg T                    | ype: Log-Pwr                   | TRACE 123450<br>TYPE   | Frequency                     |
| dB/div Ref 0.00                                       | t 11.97 dB                               | w sAtten: 4 db                       |                          |                                | /lkr2 4.824 GHz<br>-62.13 dBm  | Auto Tune                     |
|   |  |                                      |                          |                                |  | Center Fre<br>9.015000000 GH  |
|   | 2  | 3                                    | ور مرد<br>مرد مرد المالي | مى<br>مەركىلەر مەركىلەر بۇ بۇن | م<br>مراجع المراجع | Start Free<br>30.000000 MH    |
| 0.0 <b>Aller (1.1)</b><br>0.0 0.0                     |  |                                      |                          |                                |  | Stop Free<br>18.000000000 GH  |
| tart 30 MHz<br>Res BW 1.0 MHz                         | #\                                       | /BW 3.0 MHz                          |                          | Sweep                          | Stop 18.000 GHz<br>30.0 ms (1001 pts)  | CF Ste<br>1.797000000 GH      |
| KR MODE TRC SCL<br>1 N 1 f<br>2 N 1 f<br>3 N 1 f<br>4 | ×<br>2.412 GHz<br>4.824 GHz<br>7.236 GHz | 4.00 dBm<br>-62.13 dBm<br>-64.60 dBm | FUNCTION                 | FUNCTION WIDTH                 | FUNCTION VALUE   | Auto Mai<br>Freq Offse<br>0 H |
| 6<br>7<br>8<br>9<br>9<br>0                            |  |                                      |                          |                                |  |                               |
| 2 <b>2 2 2</b>  |  |                                      |                          | STATU                          | 5  |                               |

Antenna B

| enter F                    |                          | 2 DC<br>000000 GHz<br>PN0: Fas           | SENSE:                                     | Ave      | ALIGN OFF               | 10:29:59 AM Mar 03, 2015<br>TRACE 12:04:56<br>TYPE | Frequency                         |
|----------------------------|--------------------------|--|--|----------|-------------------------|--|-----------------------------------|
| 0 dB/div                   | Ref Offset 1<br>Ref 0.00 |  | #Atten: 4 dB                               |          | N                       | 1kr2 4.824 GHz<br>-62.10 dBm                       | Auto Tur                          |
| og<br>10.0<br>20.0<br>30.0 |                          |  |  |          |                         |  | Center Fre<br>9.015000000 G       |
| 0.0<br>0.0<br>0.0          |                          | 2<br>with with other                     | 3<br>and a start of the start of the start | 279      | transmitter Ageneration | an yada katika kana ya digada di katika            | Start Fre<br>30.000000 Mi         |
| 10.0<br>10.0<br>10.0       |                          |  |  |          |                         |  | Stop Fr<br>18.00000000 G          |
|                            | 1.0 MHz                  |  | VBW 3.0 MHz                                |          |                         | Stop 18.000 GHz<br>30.0 ms (1001 pts)              | CF Sto<br>1.797000000 G<br>Auto M |
| 3 N<br>4<br>5              | 1                        | ×<br>2.412 GHz<br>4.824 GHz<br>7.236 GHz | -62.10 dBm                                 | FUNCTION | FUNCTION WIDTH          | FUNCTION VALUE                                     | Freq Offs                         |
| 6                          |                          |  |  |          |                         |  |                                   |

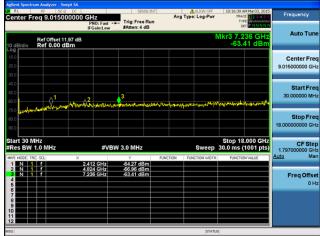
Antenna C

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#### Conducted Spurs Peak, 2412 MHz, HT/VHT20, M8 to M15, M0 to M9 2ss





Antenna A

Antenna B

Page No: 176 of 339



## Conducted Spurs Peak, 2412 MHz, HT/VHT20, M8 to M15, M0 to M9 2ss



| gilent Spectrum Analyzer - Swept SA                     |   |                                     |                                       |                                |
|---|---|-------------------------------------|---------------------------------------|--------------------------------|
| RL RF 50 Ω DC   | SENSI   | ALIGN OFF                           | 10:26:42 AM Mar 03, 2015              | Frequency                      |
| enter Freq 9.01500000                                   | PNO: Fast   | tun                                 | TYPE DET P N N N N N                  |                                |
| Ref Offset 11.97 dE<br>0 dB/div Ref 0.00 dBm            | 3   |                                     | Mkr2 4.824 GHz<br>-62.13 dBm          | Auto Tune                      |
| 00  |   |                                     |                                       | Center Fred<br>9.015000000 GH: |
| 000<br>000<br>000 ↓1                                    | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>3<br>2<br>2<br>2<br>3<br>2<br>2<br>3<br>2<br>2<br>3<br>2<br>2<br>3<br>2<br>2<br>3<br>2<br>3<br>2<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>3<br>2<br>3<br>3<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | جهدته والمعادية والمعادية والمعالية |                                       | Start Free<br>30.000000 MH;    |
| 0.0 450 450 450 450 450 450 450 450 450 45              |   |                                     |                                       | Stop Free<br>18.000000000 GH   |
| tart 30 MHz<br>Res BW 1.0 MHz                           | #VBW 3.0 MHz  | Sweep                               | Stop 18.000 GHz<br>30.0 ms (1001 pts) | CF Step<br>1.797000000 GH      |
| KR MODE TRC SCL X<br>1 N 1 f<br>2 N 1 f<br>3 N 1 f<br>4 | 2.412 GHz -64.00 dBn<br>4.824 GHz -62.13 dBn<br>7.236 GHz -64.60 dBn  | 1                                   | FUNCTION VALUE                        | Auto Mar<br>Freq Offse         |
| 4<br>6<br>7<br>8<br>9<br>0                              |   |                                     |                                       | 0 H                            |
| 2 <b>2</b>  |   | STAT                                | ß                                     |                                |

Antenna B

| enter Freq 9.015                                      | 00 DC<br>0000000 GHz<br>PN0: Fat         | SENSE:                       | Avg            | Type: Log-Pwr                      | 10:29:59 AM Mar 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE<br>DET P NNNNN | Frequency                          |
|---|--|------------------------------|----------------|------------------------------------|--|------------------------------------|
| Ref Offse   | IFGain:Lo<br>11.97 dB<br>dBm             | w #Atten: 4 dB               |                | N                                  | kr2 4.824 GHz<br>-62.10 dBm  | Auto Tun                           |
|   |  |                              |                |                                    |  | Center Fre<br>9.015000000 GH       |
|   | and Marken Marken                        | 3<br>autological statistical | (p~3047)/w.844 | haramanik_del <sup>angk</sup> alka | n, yal 400% sang radigalari 219 <sup>000</sup>                     | Start Fre<br>30.000000 Mi          |
| 0.0   |  |                              |                |                                    |  | Stop Fre<br>18.00000000 GF         |
| tart 30 MHz<br>Res BW 1.0 MHz                         |  | VBW 3.0 MHz                  |                |                                    | Stop 18.000 GHz<br>30.0 ms (1001 pts)                              | CF Ste<br>1.797000000 GI<br>Auto M |
| KR MODE TRC SCL<br>1 N 1 F<br>2 N 1 F<br>3 N 1 F<br>4 | ×<br>2.412 GHz<br>4.824 GHz<br>7.235 GHz | -62.10 dBm                   | FUNCTION       | FUNCTION WIDTH                     | FUNCTION VALUE   | Auto Ma<br>Freq Offs<br>0 H        |
| 6<br>7<br>8<br>9                                      |  |                              |                |                                    |  |                                    |

Antenna C

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## Conducted Spurs Peak, 2412 MHz, HT/VHT20, M16 to M23, M0 to M9 3ss



| RL                                  | RF              | 50 Q                     |      |                         | SE                               | NSE:INT  |          | ALIGN                           |               |  | 2 AM Mar 03, 2015                        | Frequen              | cv                   |
|-------------------------------------|-----------------|--------------------------|------|-------------------------|----------------------------------|----------|----------|---------------------------------|---------------|--|--|----------------------|----------------------|
| enter F                             | req 9.0         | 15000                    | PI   | NO: Fast -<br>Sain:Low  | Atten: 4                         |          | Avg      | Type: Log                       | -Pwr          |  | ACE 23456<br>TYPE WANNINN<br>DET PINNNNN |                      | -,                   |
| 0 dB/div                            | Ref Of<br>Ref 0 | set 11.97<br>.00 dBr     | 7 dB | Junicow                 |                                  |          |          |                                 | N             |  | 824 GHz<br>.13 dBm                       | Auto                 | Tun                  |
|                                     |                 |                          |      |                         |                                  |          |          |                                 |               |  |  | Center<br>9.01500000 |                      |
| 10.0<br>50.0<br>50.0                |                 | 1                        | 2    | non latellark           | 3                                | Jawas    | ملطابطات | مى مەردىيە.<br>ئىرىنىدە ئىرىنىد | - and a state | and the second | Lo an an inter                           | Star<br>30.00000     | t Fred<br>00 MH:     |
| '0.0 <b>******</b><br>0.0<br>0.0    | erte al         | <b>(</b> 1. <b>1</b> . 1 |      |                         |                                  |          |          |                                 |               |  |  | Stop<br>18.00000000  | o Free               |
| tart 30 I<br>Res BW                 | 1.0 MH          | z                        |      | #VB                     | W 3.0 MH                         |          |          | Sw                              | eep           |  | 8.000 GHz<br>(1001 pts)                  | 1.79700000           |                      |
| KR MODE T<br>1 N<br>2 N<br>3 N<br>4 | 1 1             |                          | 4.82 | 2 GHz<br>4 GHz<br>6 GHz | 464.00 d<br>-62.13 d<br>-64.60 d | Bm<br>Bm | UNCTION  | FUNCTION                        | WIDTH         | FUNCT  | ION VALUE                                | Auto<br>Freq 0       | Mar<br>Offse<br>0 H: |
| 6<br>7<br>8<br>9<br>0               |                 |                          |      |                         |                                  |          |          |                                 |               |  |  |                      |                      |
| 2                                   |                 |                          |      |                         |                                  |          |          |                                 |               |  |  |                      |                      |

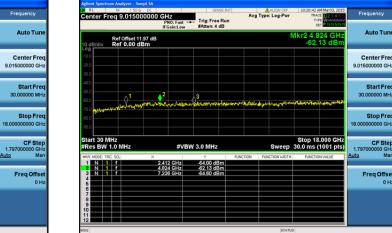
Antenna B

| enter F           |                        |                              | Fast +++ | SENSE:<br>Trig: Free Ri                  | A        | ALIGN OFF                              | TRAJ                    | M Mar 03, 2015                    | Frequency                           |
|-------------------|------------------------|------------------------------|----------|--|----------|--|-------------------------|-----------------------------------|-------------------------------------|
| ) dB/div          | Ref Offset<br>Ref 0.00 | 11.97 dB                     | in:Lowi  | #Atten: 4 dB                             |          |  | Mkr2 4.8                |                                   | Auto Tur                            |
|                   |                        |                              |          |  |          |  |                         |                                   | Center Fre<br>9.015000000 GH        |
| 1.0<br>1.0<br>1.0 |                        | 2<br>And Maria Maria         |          | an a la state de la sec                  |          | 1491-747-40-745-149 <sup>6-1</sup> 91- | Marin yadi dariki Asura | endle plad to th <sup>ann</sup> e | Start Fre<br>30.000000 Mi           |
|                   | M. A. Barrier          |                              |          |  |          |  |                         |                                   | Stop Fre<br>18.00000000 GP          |
|                   | 1.0 MHz                |                              | #VBW 3   |  |          |  | 30.0 ms (               |                                   | CF Ste<br>1.797000000 GH<br>Auto Ma |
| 3 N<br>4<br>5     | 1                      | ×<br>2,412<br>4,824<br>7,235 | GHz      | Y<br>64.04 dBm<br>62.10 dBm<br>63.19 dBm | FUNCTION | FUNCTION WIDTH                         | FUNCTIO                 | IN VALUE                          | Freq Offs<br>0 H                    |
| 6<br>7<br>8       |                        |                              |          |  |          |  |                         |                                   |                                     |

Antenna C

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Avg Type: Log-P



uhuhu cisco

### Conducted Spurs Peak, 2412 MHz, HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss

18.00

Stop 18.000 GHz Sweep 30.0 ms (1001 pts)

Antenna A

30 MHz BW 1.0 MH

enter Freq 9.015000000 GHz File and Free Run File and Free Run File and Free Run File and Free Run

#VBW 3.0 MHz

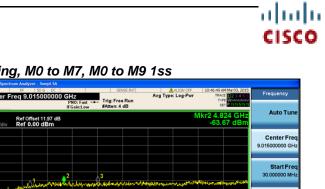
2.412 GHz 4.824 GHz 7.236 GHz

-67.62 dBn -64.65 dBn -64.29 dBn

Ref Offset 11.97 dB Ref 0.00 dBm

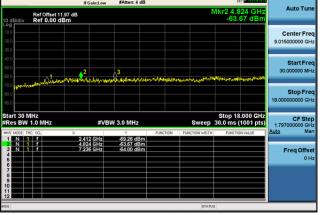


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# Conducted Spurs Peak, 2412 MHz, HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss





Antenna A

|                           | f Offset 11.97 dB<br>f 0.00 dBm | IFGain:Low             | #Atten: 4 dB             |                          |                         | DET                                   |                              |
|---------------------------|---------------------------------|------------------------|--------------------------|--------------------------|-------------------------|---------------------------------------|------------------------------|
| 10.0                      |                                 |                        |                          |                          | N                       | 1kr2 4.824 GHz<br>-63.71 dBm          | Auto Tur                     |
| 30.0                      |                                 |                        |                          |                          |                         |                                       | Center Fre<br>9.015000000 GF |
| 10.0<br>50.0<br>50.0      | 1                               |                        | 3                        | المرود والاتيانية ( ومرو | Lite, S. auto and Maria | Hkridtyystulebyyludiytiam             | Start Fre<br>30.000000 Mi    |
| 10.0 <b>10.0</b><br>10.0  | And Set of our days             |                        |                          |                          |                         |                                       | Stop Fre<br>18.000000000 Gi  |
| tart 30 MHz<br>Res BW 1.0 | MHz                             | #VB                    | W 3.0 MHz                |                          | Sweep 3                 | Stop 18.000 GHz<br>30.0 ms (1001 pts) | CF Ste<br>1.797000000 G      |
| KR MODE TRC SCL           |                                 | 2.412 GHz              | -65.63 dBm               | FUNCTION                 | FUNCTION WIDTH          | FUNCTION VALUE                        | Auto M                       |
| 2 N 1 f<br>3 N 1 f<br>4   |                                 | 4.824 GHz<br>7.236 GHz | -63.71 dBm<br>-64.93 dBm |                          |                         |                                       | Freq Offs<br>01              |
| 6<br>7<br>8<br>9          |                                 |                        |                          |                          |                         |                                       |                              |
| 1                         |                                 |                        |                          |                          |                         |                                       |                              |

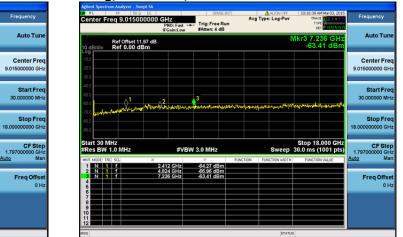
Antenna C

Antenna B

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Avg Type: Log-P

Stop 18.000 GHz Sweep 30.0 ms (1001 pts)



uluulu cisco

#### Conducted Spurs Peak, 2412 MHz, HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss

Antenna A

t 30 MHz 5 BW 1.0 MH

RL FF 509 0C enter Freq 9.015000000 GHz PR0: Fast → Trig: Free Run PR0: Fast → Trig: Free Run

#VBW 3.0 MHz

2.412 GHz 4.824 GHz 7.236 GHz -66.89 dBm -65.21 dBm -63.21 dBm

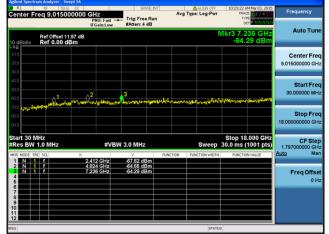
Ref Offset 11.97 dB Ref 0.00 dBm

Antenna B

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# Conducted Spurs Peak, 2412 MHz, HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss



| enter Freq 9              | .015000                  | 000 GHz             | ): Fast    |                        |          | Avg    | ALIGN OF<br>Type: Log-Pu                 | rr 11   | 2 AM Mar 03, 2015<br>RACE 1 2 3 4 5 6<br>TYPE<br>DET PNNNNN | Frequency                    |
|---------------------------|--------------------------|---------------------|------------|------------------------|----------|--------|--|---------|---|------------------------------|
| dB/div Ref                | Offset 11.97<br>0.00 dBn | dB                  | inc.ow     | arrestin 4             |          |        |  |         | .824 GHz<br>2.13 dBm  | Auto Tun                     |
|                           |                          |                     |            |                        |          |        |  |         |   | Center Fre<br>9.015000000 GH |
| 0                         | 1<br>                    | 2                   | n followed | 3                      | dawarv   | ملقلها | لې د د د د د د د د د د د د د د د د د د د | materia | al an area  | Start Fre<br>30.000000 MH    |
| 0<br>0                    | And Performance          |                     |            |                        |          |        |  |         |   | Stop Fre<br>18.000000000 GH  |
| art 30 MHz<br>es BW 1.0 M | IHz                      |                     | #VB\       | N 3.0 MHz              |          |        | Swee                                     |         | 18.000 GHz<br>s (1001 pts)                                  | CF Ste<br>1.797000000 GH     |
| N 1 1                     |                          | ×<br>2.412<br>4.824 | GHz        | -64.00 de<br>-62.13 de | 3m<br>3m | NCTION | FUNCTION WID                             | TH FUNC | TION VALUE  | Auto Ma                      |
|                           |                          | 7.236               | GHz        | -64.60 df              | 3m       |        |  |         |   | Freq Offse<br>0 H            |
|                           |                          |                     |            |                        |          |        | ST/                                      | TUS     |   |                              |

Antenna A

|                             | eq 9.0150                  | PNO: Fast              | SENSE:IN<br>Trig: Free Run<br>#Atten: 4 dB | Avg            | ALIGN OFF              | 10:29:59 AM Mar 03, 2015<br>TRACE 2 3 4 5<br>TYPE<br>DET | Frequency                    |
|-----------------------------|----------------------------|------------------------|--|----------------|------------------------|--|------------------------------|
| 0 dB/div                    | Ref Offset 1<br>Ref 0.00 c | 1.97 dB                | satten. 4 db                               |                | N                      | 1kr2 4.824 GHz<br>-62.10 dBm                             |                              |
| -0g<br>10.0<br>20.0<br>30.0 |                            |                        |  |                |                        |  | Center Fre<br>9.015000000 GH |
| 40.0<br>50.0<br>60.0        |                            | 2<br>Martinhalan       | رومان المسلم المراجع                       | pr-38471/w-844 | harrownerster Astronom | angudelasistangandigalaristati                           | Start Fre<br>30.000000 MH    |
| 70.0                        | Mar Market                 |                        |  |                |                        |  | Stop Fre<br>18.000000000 GF  |
| Start 30 M<br>#Res BW       |                            | #VE                    | 3W 3.0 MHz                                 |                | Sweep                  | Stop 18.000 GHz<br>30.0 ms (1001 pts)                    | 1.797000000 G                |
| MKR MODE TR                 | C SCL                      | ×<br>2.412 GHz         | Y<br>-64.04 dBm                            | FUNCTION       | FUNCTION WIDTH         | FUNCTION VALUE   | Auto Ma                      |
| 2 N 1<br>3 N 1<br>4<br>5    | ł                          | 4.824 GHz<br>7.236 GHz | -62.10 dBm<br>-63.19 dBm                   |                |                        |  | Freq Offs<br>0 H             |
| 7 8 9                       |                            |                        |  |                |                        |  |                              |
| 10                          |                            |                        |  |                |                        |  |                              |

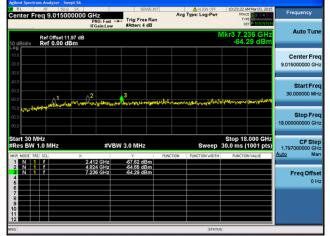
Antenna C

Antenna B

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# Conducted Spurs Peak, 2412 MHz, HT/VHT20 Beam Forming, M16 to M23, M0 to M9 3ss



| RL  | RF      |                    | R DC  |      |                |                     | ENSE:IN | Т     |                  |      | ALIGN OFF      |                       | 42 AM Mar 03, 20        | 15         | uency                  |
|---|---------|--------------------|-------|------|----------------|---------------------|---------|-------|------------------|------|----------------|-----------------------|-------------------------|------------|------------------------|
| Center F  | req     | 9.0150             | 0000  | PN   | C: Fast        | Trig: Fr<br>#Atten: |         | 1     | Avg              | Туре | Log-Pwr        |                       | TYPE WORLDET P N N N    |            |                        |
| 0 dB/div  |         | Offset 1<br>0.00 c |       | 3    |                |                     |         |       |                  |      |                |                       | .824 GH<br>2.13 dBr     | 2          | uto Tune               |
|   |         |                    |       |      |                |                     |         |       |                  |      |                |                       |                         |            | nter Freq<br>00000 GH2 |
| 40.0<br>50.0<br>50.0                                  |         | 1<br>سرمان         | water | 2    | w.hulle        | 3                   | en lan  | an an | <b>helleline</b> |      | 1/16-arabilite | and the second second | elfanori                | 30.00      | tart Freq<br>00000 MHz |
| 70.0 <mark>11.0 11.0 11.0 11.0 11.0 11.0 11.0 </mark> | againti | 2 ( N              |       |      |                |                     |         |       |                  |      |                |                       |                         |            | top Freq               |
| tart 30 I<br>Res BW                                   |         | ИHz                |       |      | #VE            | SW 3.0 MH           | z       |       |                  |      | Sweep          |                       | 18.000 GH<br>s (1001 pt | s) 1.79700 | CF Step                |
| 2 N   | 1       |                    | ×     | 4.82 | 2 GHz<br>4 GHz | -64.00<br>-62.13    | dBm     | FUNC  | TION             | FUN  | CTION WIDTH    | FUN                   | CTION VALUE             | Auto       | Man                    |
| 3 N 1<br>6 6<br>7 8<br>9 9<br>10<br>11                |         |                    |       | 7.23 | 5 GHz          | -64,60              | 38m     |       |                  |      |                |                       |                         | Fr         | eq Offsel<br>0 Ha      |
| G   |         |                    |       |      |                |                     |         |       |                  |      | STATU          | S                     |                         |            |                        |

Antenna A

| set 11.97 dB<br>00 dBm | 5000            | 3<br>Dagaranganganganganganganganganganganganganga | 1-22-54-48-84-76                                    | twented age  | h<br>anasta istaatusta   | -62.  | 824 GHz<br>10 dBm  | Cen<br>9.015000<br>St<br>30.000  | ter Fre<br>2000 GH<br>art Fre<br>2000 MH   |
|------------------------|-----------------|--|---|--|--|---|--|--|--|
| lander March           | uhan kana sa    |  | ing big management                                  | tw Pack 1 yea  | amasila lightal ge   |   |  | 9.015000<br>St<br>30.000   | 0000 G⊢<br>artFre  |
| 1<br>orden, Masan per  | Windowski       |  | ra)spratarin  | twite the state of the                                   | erraille_Aq <sup>terail</sup> te                               | an yn de let Wysee  |  | 30.000   |  |
|                        |                 |  |   |  |  |   |  |  |  |
|                        |                 |  |   |  |  |   |  | St<br>18.00000   | <b>op Fr</b><br>0000 G   |
| 2                      | #VBV            | N 3.0 MHz  |   |  | Sweep  | Stop 18<br>30.0 ms (  | 8.000 GHz<br>(1001 pts)  | 1.797000   |  |
| 4.82                   | 24 GHz          | -62.10 dBr   | n   | TION FU  | INCTION WIDTH  | FUNCTI  | ON VALUE   |  |  |
|                        |                 |  |   |  |  |   |  | The  | 01   |
|                        | ×<br>2.4<br>4.8 |  | × Y<br>2.412 GHz -64.04 dBr<br>4.824 GHz -62.10 dBr | X Y FUNC<br>2.412 GHz -64.04 dBm<br>4.824 GHz -62.10 dBm | X Y FUNCTION F<br>2.412 GHz -64.04 dBm<br>4.824 GHz -62.10 dBm | X 2.412 GHz GH dBm<br>4.224 GHz S4 10 dBm<br>4.224 GHz S4 10 dBm<br>7.235 GHz S5 19 dBm | X 2.412 GH4 420 420 File<br>4.224 GH4 52.10 480 File<br>7.238 GH2 53.13 480 File<br>7.238 GH2 53.13 480 File<br>7.238 GH2 53.13 480 File<br>53.13 580 File<br>53.13 580 File<br>53.13 480 File<br>53.13 580 Fi | X Y BINCTION FUNCTION WIDTH FUNCTION VALUE     454.04 dBm     452.10 dBm | X 2412 GHz 3520 dBm 424 GHz 425 GHz 552 GHz 55 |

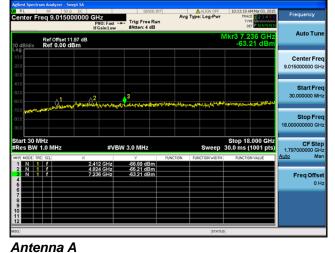
Antenna C

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# Conducted Spurs Peak, 2412 MHz, HT/VHT20 STBC, M0 to M7



|  | req 9.0150                  | 00000 GH                | D: Fast ↔  | Trig: Free I                           | Run     | Avg Type: Lo      | GN OFF<br>og-Pwr | 10:16:39 AM<br>TRACE<br>TYPE |                | Frequency                              |
|--|-----------------------------|-------------------------|--|--|---------|-------------------|------------------|------------------------------|----------------|--|
| 0 dB/div                                   | Ref Offset 11<br>Ref 0.00 d | .97 dB                  | ain:Low  | #Atten: 4 d                            | 8       |                   | M                | kr3 7.23<br>-63.4            | 6 GHz<br>1 dBm | Auto Tune                              |
|  |                             |                         |  |  |         |                   |                  |                              |                | Center Freq<br>9.015000000 GHz         |
| 10.0<br>10.0<br>10.0                       |                             | Mun Q2                  | phore the state of | 3                                      | www.    | and faile way and | 1.1.500,150 gr   | والطور ولعاري                | manth          | Start Free<br>30.000000 MH:            |
| 0.0<br>0.0<br>0.0                          |                             |                         |  |  |         |                   |                  |                              |                | Stop Fred<br>18.000000000 GH:          |
| KRĮ MODE  TR                               | 1.0 MHz                     | ×                       |  | W 3.0 MHz                              | FUNCTIO |                   |                  | Stop 18.0<br>D.0 ms (1       | 001 pts)       | CF Step<br>1.797000000 GH:<br>Auto Mar |
| 1 N 1<br>2 N 1<br>3 N 1<br>4 6<br>6 7<br>8 |                             | 2,412<br>4,824<br>7,236 | GHz  | -64.27 dBr<br>-66.96 dBr<br>-63.41 dBr | n       |                   |                  |                              |                | Freq Offsel<br>0 Hz                    |
| 9  |                             |                         |  |  |         |                   |                  |                              |                |  |

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# cisco

# Conducted Spurs Peak, 2412 MHz, HT/VHT20 STBC, M0 to M7



|  | um Analyzer - Swep   |  |  |          |                |   |                                     |
|--|--|--|--|----------|----------------|---|-------------------------------------|
| RL<br>enter Fi                             | NF 50 Q<br>rea 9.015000  |  | SENSE:INT                              | Avg 1    | ALIGN OFF      | 10:26:42 AM Mar 03, 2015<br>TRACE 2 3 4 5 6 | Frequency                           |
|  | Ref Offset 11.9  | PNO: Fast<br>IFGain:Low                  | Trig: Free Run<br>#Atten: 4 dB         |          | N              | TYPE DET NINNIN                             | Auto Tun                            |
| 0 dB/div<br>og                             | Ref 0.00 dB  | m  |  |          |                | -62.13 dBm                                  |                                     |
| 10.0<br>20.0<br>30.0                       |  |  |  |          |                |   | Center Fre<br>9.015000000 GH        |
| 10.0<br>10.0<br>10.0                       |  | 2  | Q <sup>3</sup>                         |          |                | statuted and grammark                       | Start Free<br>30.000000 MH          |
| 0.0 <b>1110 1110 1110 1110 1110</b>        | and the second | ******                                   |  |          |                |   | Stop Fre<br>18.000000000 GH         |
|  | 1.0 MHz  |  | 3W 3.0 MHz                             |          |                | Stop 18.000 GHz<br>30.0 ms (1001 pts)       | CF Ste<br>1.797000000 GH<br>Auto Ma |
| KR MODE TF<br>1 N 1<br>2 N 1<br>3 N 1<br>4 | 1  | ×<br>2.412 GHz<br>4.824 GHz<br>7.236 GHz | -64.00 dBm<br>-62.13 dBm<br>-64.60 dBm | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE                              | Freq Offse                          |
| 6<br>7<br>8<br>9<br>0                      |  |  |  |          |                |   |                                     |
| 12 <b>1</b>                                |  |  |  |          | STATUS         |   |                                     |

Antenna B

| enter F                                      | req 9.01500                 | DC<br>00000 GHz<br>PN0: Fa<br>IFGain:L |              | Avg<br>Run | ALIGN OFF<br>Type: Log-Pwr | TRACE                  | 4 Mar 03, 2015      | Frequency                    |
|--|-----------------------------|--|--------------|------------|----------------------------|------------------------|---------------------|------------------------------|
| 0 dB/div                                     | Ref Offset 11<br>Ref 0.00 d | 1.97 dB<br>Bm                          |              |            | N                          | kr2 4.8<br>-62.1       | 24 GHz<br>0 dBm     | Auto Tun                     |
| 10.0<br>20.0<br>30.0                         |                             |  |              |            |                            |                        |                     | Center Fre<br>9.015000000 GH |
| 40.0<br>50.0<br>50.0                         |                             | Martinge                               | 3            |            | herene vile defendere      |                        | -dependent of the   | Start Fre<br>30.000000 MH    |
| 70.0<br>90.0<br>90.0                         |                             |  |              |            |                            |                        |                     | Stop Fre<br>18.00000000 GH   |
| tart 30 M                                    |                             | #                                      | VBW 3.0 MHz  |            | Sweep :                    | Stop 18.<br>30.0 ms (1 | 000 GHz<br>001 pts) | CF Ste                       |
| Res BW                                       |                             |  |              |            |                            |                        |                     |                              |
| Res BW                                       | rc  scl. <br>f              | ×<br>2.412 GH                          |              |            | FUNCTION WIDTH             | FUNCTION               | VALUE               | Auto Ma                      |
| KR MODE TR                                   | RC SCL                      |  | z -62.10 dBm | n<br>n     | FUNCTION WIDTH             | FUNCTION               | IVALUE              |                              |
| KR MODE TP<br>1 N 1<br>2 N 1<br>3 N 1<br>4 5 | RC SCL                      | 2.412 GH<br>4.824 GH                   | z -62.10 dBm | n<br>n     | FUNCTION WIDTH             | FUNCTION               | I VALUE             | Auto Ma<br>Freq Offse        |

Antenna C

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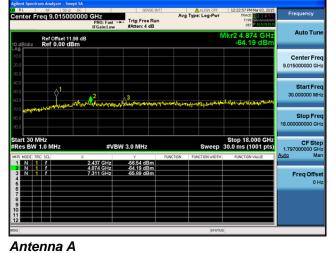
### Conducted Spurs Peak, 2437 MHz, CCK, 1 to 11 Mbps

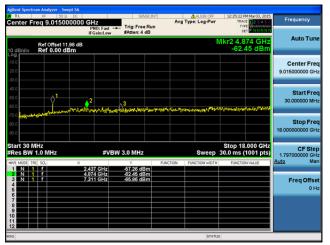




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#### Conducted Spurs Peak, 2437 MHz, CCK, 1 to 11 Mbps





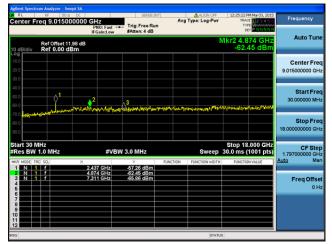
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Antenna B

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#### Conducted Spurs Peak, 2437 MHz, CCK, 1 to 11 Mbps





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Antenna B

| Antenna A |
|-----------|
|-----------|

| Center Freq 9.015000  |  | Trig: Free Run                              | ALISN OFF<br>Avg Type: Log-Pwr       | 12:27:47 PM Mar 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE<br>DET P NNNNN | Frequency                     |
|---|--|---|--------------------------------------|--|-------------------------------|
| Ref Offset 11.5   | 8 dB                                     |   | N                                    | 1kr2 4.874 GHz<br>-61.72 dBm                                       | Auto Tun                      |
| -0g<br>10.0<br>20.0<br>30.0   |  |   |                                      |  | Center Free<br>9.015000000 GH |
| 40.0<br>50.0<br>60.0<br>70.0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 2<br>Mayun Walk wallion                  | 3<br>genouslasenthrance.M                   | ant for more well that you free hard | formatic and a construction  | Start Fre<br>30.000000 MH     |
| 20.0<br>90.0  |  |   |                                      |  | Stop Fre<br>18.000000000 GH   |
| Start 30 MHz<br>#Res BW 1.0 MHz   | #VB                                      | N 3.0 MHz                                   | Sweep                                | Stop 18.000 GHz<br>30.0 ms (1001 pts)                              | CF Ste<br>1.797000000 GH      |
| MKR MODE TRC SCL<br>1 N 1 f<br>2 N 1 f<br>3 N 1 f<br>4 6<br>6                                 | ×<br>2.437 GHz<br>4.874 GHz<br>7.311 GHz | Y<br>-57.51 dBm<br>-61.72 dBm<br>-63.84 dBm | UNCTION FUNCTION WIDTH               | FUNCTION VALUE   | Auto Ma<br>Freq Offse<br>0 H  |
| 7<br>8<br>9<br>10<br>11   |  |   |                                      |  |                               |
| 30  |  |   | STATUS                               |  |                               |

Antenna C

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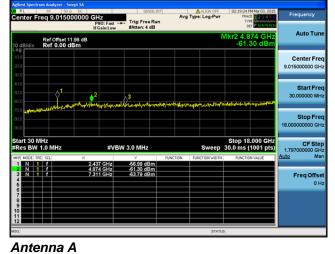


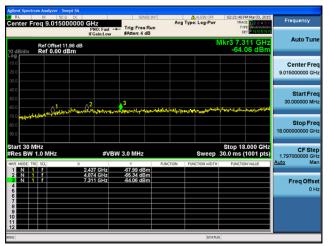
#### Conducted Spurs Peak, 2437 MHz, 6 to 54 Mbps

Antenna A

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Conducted Spurs Peak, 2437 MHz, 6 to 54 Mbps



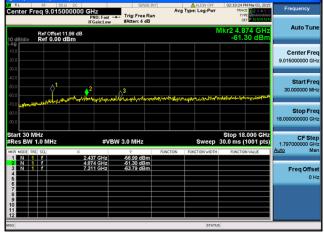


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Antenna B

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### Conducted Spurs Peak, 2437 MHz, 6 to 54 Mbps





|  | 9.015000000                     | GHz<br>PNO: Fast ↔                          | Trig: Free Run<br>#Atten: 4 dB                      | Avg                | ALIGN OFF<br>Type: Log-Pwr | 02:24:15 PM Mar 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE<br>DET P NINNIN | Frequency   |
|--|---------------------------------|---|---|--------------------|----------------------------|---|---|
|  | f Offset 11.98 dB<br>f 0.00 dBm | I COMPECT                                   |   |                    | N                          | /kr2 4.874 GHz<br>-62.99 dBm  | Auto Tun  |
| 20.0   |                                 |   |   |                    |                            |   | Center Fre<br>9.015000000 GH                          |
| 40.0<br>50.0<br>60.0   | 1<br>1                          | 2<br>Whadows                                | م3<br>مۇئىرىغا بالارچىدى                            | h Y E & Jacope yes | and water from             | yuut elender on an allowed  | Start Fre<br>30.000000 MH                             |
| 70.0 <b>34 19 19 19 19 19 19 19 19 19</b> 19 19 19 19 19 19 19 19 19 19 19 19 19 |                                 |   |   |                    |                            |   | Stop Fre  |
| 90.0   |                                 |   |   |                    |                            |   |   |
| Start 30 MHz<br>Res BW 1.0   |                                 | #VB\  | N 3.0 MHz   | BUNCTION           |                            | Stop 18.000 GHz<br>30.0 ms (1001 pts)                               | 18.00000000 GH<br>CF Ste<br>1.79700000 GH<br>Auto Ma  |
| Start 30 MHz   | X                               | #VB\<br>2.437 GHz<br>4.874 GHz<br>7.311 GHz | V 3.0 MHz<br>-57.36 dBm<br>-62.99 dBm<br>-66.54 dBm | PUNCTION           | Sweep<br>FUNCTION WIDTH    |   | 18.00000000 GH<br>CF Ste<br>1.797000000 GH            |
| tart 30 MHz<br>Res BW 1.0<br>1 N 1 f<br>2 N 1 f<br>3 N 1 f<br>6                  | X                               | 2.437 GHz<br>4.874 GHz                      | Y<br>-57.36 dBm<br>-62.99 dBm                       | FUNCTION           |                            | 30.0 ms (1001 pts)  | 18.00000000 GF<br>CF Ste<br>1.797000000 GF<br>Auto Ma |

Antenna C

| glient Spectrum Analyzer - Swept<br>RL RF 50 Q<br>Center Freq 9.015000 | DC                                       | SENSE:INT<br>Trig: Free Run<br>#Atten: 4 dB | Avg            | ALIGN OFF<br>Type: Log-Pwr | 02:21:48 PM Mar 03, 2015<br>TRACE 1 2 3 4 5 6<br>TYPE 0 ET P | Frequency                       |
|--|--|---|----------------|----------------------------|--|---------------------------------|
| Ref Offset 11.96   |  |   |                | Ν                          | /kr3 7.311 GHz<br>-64.06 dBm                                 | Auto Tune                       |
| -og<br>10.0<br>20.0  |  |   |                |                            |  | Center Freq<br>9.015000000 GHz  |
| 10.0<br>50.0<br>50.0<br>50.0   | <sup>2</sup>                             | 3   | halut Palluras | مرواوا والمعادية المراجعة  | لم الم الم الم الم الم الم الم الم الم ا                     | Start Freq<br>30.000000 MHz     |
|  |  |   |                |                            |  | Stop Freq<br>18.00000000 GHz    |
| tart 30 MHz<br>Res BW 1.0 MHz  | #VBV                                     | V 3.0 MHz                                   |                | Sweep                      | Stop 18.000 GHz<br>30.0 ms (1001 pts)                        | CF Step<br>1.797000000 GHz      |
| KRI MODE (TRC) SCL<br>1 N 1 f<br>2 N 1 f<br>3 N 1 f<br>4 6<br>6        | ×<br>2.437 GHz<br>4.874 GHz<br>7.311 GHz | Y<br>-67,99 dBm<br>-65,34 dBm<br>-64.06 dBm | FUNCTION       | FUNCTION WIDTH             | FUNCTION VALUE   | Auto Man<br>Freq Offset<br>0 Hz |
| 9<br>9<br>0<br>1<br>2  |  |   |                | STATUS                     |  |                                 |

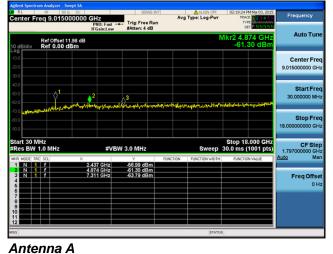
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Antenna B

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#### Conducted Spurs Peak, 2437 MHz, 6 to 54 Mbps Beam Forming

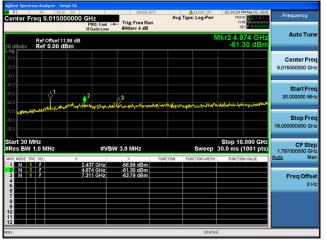


| RL   | m Analyzer - Swept SA<br>RF   S0 Ω DC<br>eq 9.01500000 | 00 GHz<br>PN0: Fast ↔               | SENSE #                                | Ave            | ALIGN OFF                       | 02:21:48 PM Mar 03, 2015<br>TRACE 2 2 4 5 6<br>TYPE<br>DET P | Frequency                              |
|--|--|-------------------------------------|--|----------------|---------------------------------|--|--|
| 10 dB/div  | Ref Offset 11.98 d<br>Ref 0.00 dBm                     | IFGain:Low                          | #Atten: 4 dB                           |                | ١                               | /lkr3 7.311 GHz<br>-64.06 dBm                                | Auto Tune                              |
| - <b>0</b> g<br>10.0<br>20.0<br>30.0   |  |                                     |  |                |                                 |  | Center Freq<br>9.015000000 GHz         |
| 40.0<br>50.0<br>60.0   | - 1<br>martinetra                                      | 2<br>                               | 3<br>Alexand graden                    | 4446.0V=366.0V | مىرىلىولى <sub>المك</sub> ريمين |  | Start Free<br>30.000000 MH:            |
| 70.0 <b></b>   |  |                                     |  |                |                                 |  | Stop Fred<br>18.00000000 GH:           |
| tart 30 M<br>Res BW 1  | 1.0 MHz  |                                     | V 3.0 MHz                              |                |                                 | Stop 18.000 GHz<br>30.0 ms (1001 pts)                        | CF Step<br>1.797000000 GH:<br>Auto Mar |
| MODE         TRC           1         N         1           2         N         1           3         N         1           4         5         6           7         7         7           8         9         10           11         12         12 | 1  | 2 437 GHz<br>4.874 GHz<br>7.311 GHz | -67.99 dBm<br>-65.34 dBm<br>-64.06 dBm | FUNCTION       | FUNCTION WIDTH                  | FUNCTION VALUE   | Freq Offse                             |
| 2 <b></b>  |  |                                     |  |                | STATU                           | 5  |  |

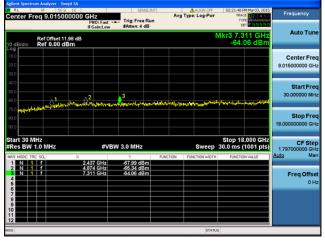
Antenna B

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#### Conducted Spurs Peak, 2437 MHz, 6 to 54 Mbps Beam Forming



Antenna B

| Antenna | A |
|---------|---|
|---------|---|

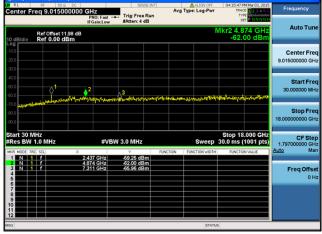
| RL RF 50.2 1<br>Center Freq 9.015000      | 000 GHz                              | SENSE:INT<br>A<br>Free Run<br>en: 4 dB | ALIGN OFF       | 02:24:15 PM Mar 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE WWWWWWW<br>DET P NNNNN | Frequency                     |
|---|--------------------------------------|--|-----------------|--|-------------------------------|
| Ref Offset 11.96<br>0 dB/div Ref 0.00 dBn |                                      |  | Ν               | /lkr2 4.874 GHz<br>-62.99 dBm  | Auto Tune                     |
| 200                                       |                                      |  |                 |  | Center Free<br>9.015000000 GH |
|   | 2<br>And a contraction of the second | Letter and Alterna                     | and and a shake | yuutelentuunuuutet   | Start Fre<br>30.000000 MH     |
| 70.0 <b></b>                              |                                      |  |                 |  | Stop Fre<br>18.000000000 GH   |
| tart 30 MHz<br>Res BW 1.0 MHz             | #VBW 3.01                            | ИНz                                    | Sweep           | Stop 18.000 GHz<br>30.0 ms (1001 pts)                                      | CF Ste<br>1.797000000 GH      |
| KR MODE TRC SCL                           | × Y<br>2.437 GHz -57.                | FUNCTION                               | FUNCTION WIDTH  | FUNCTION VALUE   | Auto Ma                       |
| 2 N 1 f<br>3 N 1 f<br>4 5                 | 4.874 GHz -62<br>7.311 GHz -66       | 99 dBm<br>54 dBm                       |                 |  | Freq Offse<br>0 H             |
|   |                                      |  |                 |  |                               |
| 7 8 9 0 1                                 |                                      |  |                 |  |                               |

Antenna C

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#### Conducted Spurs Peak, 2437 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss





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#### Conducted Spurs Peak, 2437 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss





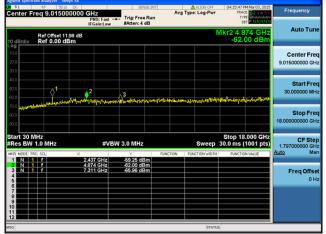
Antenna A

Antenna B

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# Conducted Spurs Peak, 2437 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss



|   | R DC                      | SENSE:INT  | ALIGN OFF                         | 04:18:12 PM Mar 03, 2015  | Frequency                  |
|---|---------------------------|--|-----------------------------------|---|----------------------------|
| enter Freq 9.0150                         |                           | Trig: Free Run                                     | Avg Type: Log-Pwr                 | TRACE   | Frequency                  |
|   | PNO: Fast H<br>IFGain:Low | #Atten: 4 dB                                       |                                   | DET PINNNN  |                            |
|   |                           |  |                                   | Mkr2 4.874 GHz  | Auto Tune                  |
| Ref Offset 1<br>0 dB/div Ref 0.00 d       | 1.98 dB<br>IBm            |  |                                   | -61.31 dBm  |                            |
| ea la |                           |  |                                   |   |                            |
| 0.0                                       |                           |  |                                   |   | Center Free                |
| 0.0                                       |                           |  |                                   |   | 9.015000000 GHz            |
| 0.0                                       |                           |  |                                   |   |                            |
| 0.0                                       |                           |  |                                   |   |                            |
| 50.0                                      |                           |  |                                   |   | Start Free                 |
| 200                                       | <b>♦</b> ²                | .3   |                                   |   | 30.00000 MHz               |
| 10 management                             | where a stand of a sector | and the second states and the second states of the | New March Contraction and Service | and the short of the second |                            |
| 0.0                                       |                           |  |                                   |   | Stop Fred                  |
|   |                           |  |                                   |   | 18.00000000 GHz            |
| 0.0                                       |                           |  |                                   |   |                            |
| tart 30 MHz                               |                           |  |                                   | Stop 18.000 GHz   |                            |
| Res BW 1.0 MHz                            | #VBV                      | V 3.0 MHz  | Sweep                             | 30.0 ms (1001 pts)  | CF Step<br>1.797000000 GH: |
| KRI MODEI TRCI SCL                        | ×                         | Y FU   | CTION FUNCTION WIDTH              | FUNCTION VALUE  | Auto Man                   |
| 1 N 1 f                                   | 2.437 GHz                 | -58.73 dBm   |                                   |   |                            |
| 2 N 1 f<br>3 N 1 f                        | 4.874 GHz<br>7.311 GHz    | -61.31 dBm<br>-65.99 dBm                           |                                   |   | Freq Offsel                |
| 4   | TATI OIL                  | 00.55 0.511  |                                   |   | 0 H                        |
| 6   |                           |  |                                   |   | 012                        |
| 7   |                           |  |                                   |   |                            |
| 8   |                           |  |                                   |   |                            |
|   |                           |  |                                   |   |                            |
| 1   |                           |  |                                   |   |                            |
|   |                           |  |                                   |   |                            |
| g   |                           |  | STATU                             | s   |                            |

Antenna A

| RL                         |                        | Q DC            |                             | SEN                    | SE:INT |                  | ALIGN OFF                           |   | M Mar 03, 2015                                       | Frequency                 |
|----------------------------|------------------------|-----------------|-----------------------------|------------------------|--------|------------------|-------------------------------------|---|--|---------------------------|
| enter F                    | req 9.015              | 000000 GH       | Z<br>NO: Fast ·<br>Gain:Low | Trig: Free             | Run    | Avg              | Type: Log-Pwr                       | TY  | E 123456<br>PE WAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | Frequency                 |
| dB/div                     | Ref Offset<br>Ref 0.00 | 11.98 dB        | Gain:Low                    | Process, 4             |        |                  | Ν                                   |   | 74 GHz<br>86 dBm                                     | Auto Tu                   |
| 0.0<br>0.0<br>0.0          |                        |                 |                             |                        |        |                  |                                     |   |  | Center F<br>9.015000000 ( |
| 0.0<br>0.0<br>0.0          |                        | and Thillipping | ******                      | 3<br>Marinhull         |        | n and all have a | 4/14/10/1-10/1 <sup>1</sup> 0/1-1/1 | ( <sup>f</sup> alls <sup>f</sup> atisfication | rectivited   | Start F<br>30.000000 f    |
| 0.0<br>0.0<br>0.0          |                        |                 |                             |                        |        |                  |                                     |   |  | Stop F<br>18.000000000    |
| tart 30 M<br>Res BW        | NHZ<br>1.0 MHZ         |                 | #VB                         | W 3.0 MHz              |        |                  | Sweep                               |   | .000 GHz<br>1001 pts)                                | CF S<br>1.797000000       |
| KRI MODE TR                | 1                      |                 | 7 GHz                       | -57.81 dB              | m      | NCTION           | FUNCTION WIDTH                      | FUNCTI  | IN VALUE   | Auto                      |
| 2 N 1<br>3 N 1<br>4<br>5 6 |                        | 4.87<br>7.31    | 4 GHz<br>1 GHz              | -63.86 dB<br>-64.45 dB | m      |                  |                                     |   |  | Freq Off                  |
| 7<br>8<br>9<br>0           |                        |                 |                             |                        |        |                  |                                     |   |  |                           |
|                            |                        |                 |                             |                        |        |                  |                                     |   |  |                           |

Antenna C

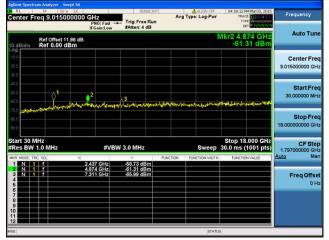
Antenna B

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### Conducted Spurs Peak, 2437 MHz, HT/VHT20, M8 to M15, M0 to M9 2ss





Antenna A

Antenna B

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### Conducted Spurs Peak, 2437 MHz, HT/VHT20, M8 to M15, M0 to M9 2ss



|                                     | 2 DC                                 | SENSE:INT  | ALIGN OFF                                    | 04:18:12 PM Mar 03, 2015                             | Frequency                      |
|-------------------------------------|--------------------------------------|--|--|--|--------------------------------|
| enter Freq 9.0150                   | 00000 GHz<br>PNO: Fast<br>IFGain:Low | Trig: Free Run   | Avg Type: Log-Pwr                            | TRACE 23456<br>TYPE<br>DET PNNNNN                    |                                |
| Ref Offset 1<br>0 dB/div Ref 0.00 d |                                      |  |  | Mkr2 4.874 GHz<br>-61.31 dBm                         | Auto Tune                      |
| 20.0                                |                                      |  |  |  | Center Freq<br>9.015000000 GHz |
|                                     | 2<br>Andrea Managarathana            | and a state of the | for group of the second second second second | نېچىلىرىندۇنىدىر مەل بېرىغىل <sub>ىر</sub> انچەللانغ | Start Freq<br>30.000000 MHz    |
| 0.0<br>0.0                          |                                      |  |  |  | Stop Freq<br>18.000000000 GHz  |
| tart 30 MHz<br>Res BW 1.0 MHz       | #VB                                  | W 3.0 MHz  | Sweep  | Stop 18.000 GHz<br>30.0 ms (1001 pts)                | CF Step<br>1.797000000 GH:     |
| KR MODE TRC SCL                     | ×<br>2.437 GHz<br>4.874 GHz          | -58.73 dBm<br>-61.31 dBm   | FUNCTION FUNCTION WIDTH                      | FUNCTION VALUE                                       | <u>Auto</u> Mar                |
| 3 N 1 f<br>4<br>6<br>6<br>7         | 7.311 GHz                            | -65.99 dBm   |  |  | Freq Offsel<br>0 Hz            |
|                                     |                                      |  |  |  |                                |
| ig l                                |                                      |  | STAT   |  |                                |

| RL RF 50 0 D<br>enter Freq 9.0150000     | 00 GHz                             | SENSE:INT<br>Irig: Free Run<br>Atten: 4 dB        | Avg Type: Log-Pwr                   | 04:20:39 PM Mar 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE WHINTON<br>DET PNNNNN   | Frequency                    |
|--|------------------------------------|---|-------------------------------------|---|------------------------------|
| Ref Offset 11.98<br>dB/div Ref 0.00 dBm  | dB                                 |   | N                                   | lkr2 4.874 GHz<br>-63.86 dBm  | Auto Tun                     |
| 0.0<br>0.0<br>0.0                        |                                    |   |                                     |   | Center Fre<br>9.015000000 GH |
|  | 2<br>Bayland of the survey will be |   | المهالي والمحارية المحارية المحارية | han and a state of the second states of the second | Start Fre<br>30.000000 MF    |
| 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  |                                    |   |                                     |   | Stop Fre<br>18.00000000 GH   |
| tart 30 MHz<br>Res BW 1.0 MHz            | #VBW 3.                            | 0 MHz   | Sweep 3                             | Stop 18.000 GHz<br>30.0 ms (1001 pts)   | CF Ste<br>1.797000000 GF     |
| (R MODE TRC SCL) 1 N 1 F 2 N 1 F 3 N 1 F | 4.874 GHz -                        | Y FUNCTION<br>57.81 dBm<br>63.86 dBm<br>64.45 dBm | N FUNCTION WIDTH                    | FUNCTION VALUE  | Auto Ma<br>Freg Offs         |
|  |                                    |   |                                     |   | 0 Freq Ons                   |

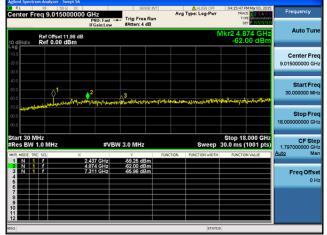
Antenna C

Antenna B

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### Conducted Spurs Peak, 2437 MHz, HT/VHT20, M16 to M23, M0 to M9 3ss



|                                     | 2 DC                                 | SENSE:INT  | ALIGN OFF                             | 04:18:12 PM Mar 03, 2015                          | Frequency                      |
|-------------------------------------|--------------------------------------|--|---------------------------------------|---|--------------------------------|
| enter Freq 9.0150                   | 00000 GHz<br>PNO: Fast<br>IFGain:Low | Trig: Free Run   | Avg Type: Log-Pwr                     | TRACE 23456<br>TYPE<br>DET PNNNNN                 |                                |
| Ref Offset 1<br>0 dB/div Ref 0.00 d |                                      |  |                                       | Mkr2 4.874 GHz<br>-61.31 dBm                      | Auto Tune                      |
| 20.0                                |                                      |  |                                       |   | Center Freq<br>9.015000000 GHz |
|                                     | 2<br>Andrea Managarathana            | and a state of the | for group of the second second second | نېچىلىرىندۇنىدى، مۇرىچىل <sub>ىر</sub> ۇنىمىكاتان | Start Freq<br>30.000000 MHz    |
| 0.0<br>0.0                          |                                      |  |                                       |   | Stop Freq<br>18.000000000 GHz  |
| tart 30 MHz<br>Res BW 1.0 MHz       | #VB                                  | W 3.0 MHz  | Sweep                                 | Stop 18.000 GHz<br>30.0 ms (1001 pts)             | CF Step<br>1.797000000 GH:     |
| KR MODE TRC SCL                     | ×<br>2.437 GHz<br>4.874 GHz          | -58.73 dBm<br>-61.31 dBm   | FUNCTION FUNCTION WIDTH               | FUNCTION VALUE                                    | <u>Auto</u> Mar                |
| 3 N 1 f<br>4<br>6<br>6<br>7         | 7.311 GHz                            | -65.99 dBm   |                                       |   | Freq Offsel<br>0 Hz            |
|                                     |                                      |  |                                       |   |                                |
| ig l                                |                                      |  | STAT                                  |   |                                |

Antenna A

| RL  | um Analyzer - Swep<br>RF 50 Ω   | DC                      | SENSE:IN                 |                       | ALIGN OFF      | 04:20:39 PM Mar 03, 2015              | Frequency                    |
|---|---------------------------------|-------------------------|--------------------------|-----------------------|----------------|---------------------------------------|------------------------------|
| enter Fr  | eq 9.015000                     | PNO: Fast<br>IFGain:Low | #Atten: 4 dB             |                       | Type: Log-Pwr  | TYPE DET P NNNN                       |                              |
| 0 dB/div  | Ref Offset 11.9<br>Ref 0.00 dBi |                         |                          |                       | Ν              | 1kr2 4.874 GHz<br>-63.86 dBm          |                              |
| -0g<br>10.0<br>20.0<br>30.0                                       |                                 |                         |                          |                       |                |                                       | Center Fre<br>9.015000000 GH |
| 40.0<br>50.0<br>50.0  | 1                               | 2<br>Wayterneytory of   | A3                       | 1.0.0 per la 11.0 per | unorgrander    | ghan frees and an and the state       | Start Fre<br>30.000000 Mi    |
| 70.0 <mark>, ar ar da </mark> |                                 |                         |                          |                       |                |                                       | Stop Fr<br>18.00000000 G     |
| Start 30 N<br>Res BW  |                                 | #VE                     | W 3.0 MHz                |                       | Sweep          | Stop 18.000 GHz<br>30.0 ms (1001 pts) | 1.797000000 G                |
| KR MODE TR  | C SCL                           | ×<br>2.437 GHz          | ۲<br>-57.81 dBm          | FUNCTION              | FUNCTION WIDTH | FUNCTION VALUE                        | Auto M                       |
| 2 N 1<br>3 N 1<br>4<br>6  | Ì                               | 4.874 GHz<br>7.311 GHz  | -63.86 dBm<br>-64.45 dBm |                       |                |                                       | Freq Offs<br>0               |
| 7<br>8<br>9<br>10   |                                 |                         |                          |                       |                |                                       |                              |
| 12  |                                 |                         |                          |                       |                |                                       |                              |

Antenna C

Antenna B

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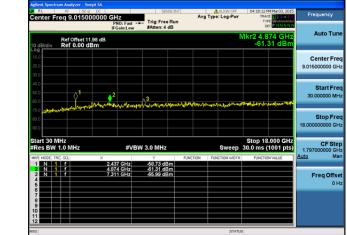
Avg Type: Log-P

ast ---- Trig: Free Run

W 3.0 MHz

2.437 GHz 4.874 GHz 7.311 GHz

-59.25 dBn -62.00 dBn -65.96 dBn



uhuhu cisco

### Conducted Spurs Peak, 2437 MHz, HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss

Auto Tun

Start Free

Stop Fre

Ma

CF Step 1.797000000 GH

Freq Offs 0 1

18.00

Stop 18.000 GHz Sweep 30.0 ms (1001 pts)

30.000000 MI

Center Fre 9.015000000 GH

Antenna A

30 MHz BW 1.0 MH

enter Freq 9.015000000 GHz

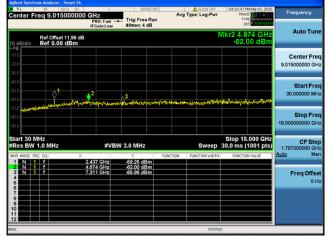
Ref Offset 11.98 dB Ref 0.00 dBm



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### Conducted Spurs Peak, 2437 MHz, HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss



|                          | ¥F 50 Ω                      |                     |                     | SE                     | VSE:INT     |             | 🔥 ALIGN OFF          |         | PM Mar 03, 2015                | Frequency                     |
|--------------------------|------------------------------|---------------------|---------------------|------------------------|-------------|-------------|----------------------|---------|--------------------------------|-------------------------------|
| enter Freq               | 9.015000                     | PN                  | 0:Fast ↔<br>ain:Low | Trig: Fre<br>#Atten: 4 |             | Avg         | Type: Log-Pwr        | T       | ACE 23456<br>YPE WARDED PNNNNN |                               |
|                          | ef Offset 11.9<br>ef 0.00 dB |                     |                     |                        |             |             |                      |         | 874 GHz<br>.31 dBm             | Auto Tune                     |
| 0.0<br>0.0<br>0.0        |                              |                     |                     |                        |             |             |                      |         |                                | Center Fred<br>9.015000000 GH |
| 0.0<br>0.0<br>0.0        | Al and the second            | 2<br>May Ministry   | and the second      | 3                      | Agenatic de | -<br>Consta | water and the second | بر      | -pealpoort-Marth               | Start Free<br>30.000000 MH;   |
| 0.0                      |                              |                     |                     |                        |             |             |                      |         |                                | Stop Fred<br>18.00000000 GH   |
| art 30 MHz<br>Res BW 1.0 |                              |                     | #VB\                | N 3.0 MHz              |             |             | Sweep                |         | 8.000 GHz<br>(1001 pts)        | CF Ste<br>1.797000000 GH      |
| IN 1 1                   | 4                            | ×<br>2.437<br>4.874 |                     | -58.73 di<br>-61.31 di | 3m          | NCTION      | FUNCTION WIDTH       | I FUNCT | ION VALUE                      | Auto Mai                      |
| 3 N 1 f                  |                              | 7.311               |                     | -65.99 di              |             |             |                      |         |                                | Freq Offse<br>0 H             |
| 7<br>8<br>9<br>0         |                              |                     |                     |                        |             |             |                      |         |                                |                               |
| 2 <b></b>                |                              |                     |                     |                        |             |             | STAT                 | 15      |                                |                               |

Antenna A

| enter Freq 9.015000000        | CHZ<br>PN0: Fast +   | Aug Type: Log-Pwr   | 04:20:39 PM Mar 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE WWWWWWW<br>DET P NNNNN | Frequency                    |
|-------------------------------|--|---|--|------------------------------|
| Ref Offset 11.98 dB           |  | 1   | //kr2 4.874 GHz<br>-63.86 dBm  | Auto Tun                     |
| 00<br>00<br>00<br>00          |  |   |  | Center Fre<br>9.015000000 GH |
|                               | 2 3  | A March M | upan managa da an  | Start Fre<br>30.000000 MH    |
| 0.0                           |  |   |  | Stop Fre<br>18.000000000 GH  |
| tart 30 MHz<br>Res BW 1.0 MHz | #VBW 3.0 MHz   | Sweep   | Stop 18.000 GHz<br>30.0 ms (1001 pts)                                      | CF Ste<br>1.797000000 GF     |
| 2 N 1 f 4                     | 437 GHz -57.81 dBm<br>.874 GHz -63.86 dBm<br>.311 GHz -64.45 dBm | FUNCTION FUNCTION WIDTH   | FUNCTION VALUE   | Auto Ma<br>Freq Offs<br>0 H  |
| 6<br>7<br>8<br>9<br>0         |  |   |  |                              |

Antenna C

Antenna B

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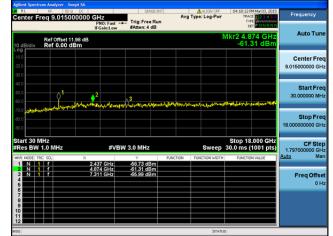
Avg Type: L

ast ---- Trig: Free Run

W 3.0 MHz

2.437 GHz 4.874 GHz 7.311 GHz

-59.25 dBn -62.00 dBn -65.96 dBn



uhuhu cisco

### Conducted Spurs Peak, 2437 MHz, HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss

Auto Tun

Start Free

Stop Fre

Ma

CF Step 1.797000000 GH

Freq Offs 0 1

18.00

Stop 18.000 GHz Sweep 30.0 ms (1001 pts)

30.000000 MI

Center Fre 9.015000000 GH

Antenna A

30 MHz BW 1.0 MH

enter Freq 9.015000000 GHz

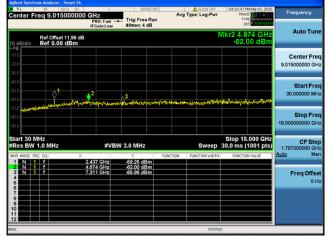
Ref Offset 11.98 dB Ref 0.00 dBm



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### Conducted Spurs Peak, 2437 MHz, HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss



| RL                                 |                        | 0 g DC       |                          | SENS                        |     |  | ALIGN OFF        | 04:18:12      | PM Mar 03, 2015                       |                                |
|------------------------------------|------------------------|--------------|--------------------------|-----------------------------|-----|--|------------------|---------------|---------------------------------------|--------------------------------|
| Center Fi                          | req 9.015              | 000000 G     | PNO: Fast H<br>FGain:Low | Trig: Free I<br>#Atten: 4 d | Run | Avg Type   | : Log-Pwr        | D             | CE 123456<br>FE WARANNNN<br>ET PNNNNN | Frequency                      |
| 0 dB/div                           | Ref Offset<br>Ref 0.00 |              |                          |                             |     |  |                  |               | 374 GHz<br>31 dBm                     | Auto Tune                      |
| 10.0<br>20.0<br>30.0               |                        |              |                          |                             |     |  |                  |               |                                       | Center Freq<br>9.015000000 GHz |
| 40.0<br>50.0<br>60.0               | 0 <sup>1</sup>         | - Widey with | 2                        | 3                           | 1   | the state of the s | a but the second | and the state | and part that                         | Start Freq<br>30.000000 MHz    |
| 70.0 <b></b><br>30.0<br>30.0       | , approximation of the |              |                          |                             |     |  |                  |               |                                       | Stop Free<br>18.00000000 GH2   |
| tart 30 N<br>Res BW                |                        |              | #VB\                     | W 3.0 MHz                   |     |  | Sweep            |               | 3.000 GHz<br>(1001 pts)               | CF Step<br>1.797000000 GH:     |
|                                    | 1                      | 4.8          | 37 GHz<br>74 GHz         | -58.73 dBr<br>-61.31 dBr    | n   | )N FUN   | CTION WIDTH      | FUNCTI        | DN VALUE                              | Auto Mar                       |
| 3 N 1<br>4 6<br>6 7<br>8 9<br>9 10 |                        | 73           | 311 GHz                  | -65.99 dBr                  |     |  |                  |               |                                       | Freq Offsel<br>0 Hz            |
| 2 <b></b>                          |                        |              |                          |                             |     |  | STATU            | 5             |                                       |                                |

Antenna A

| enter Freq 9.015000000        | CHZ<br>PN0: Fast +++ Trig: Free Run<br>#Atten: 4 dB              | Aug Type: Log-Pwr  | 04:20:39 PM Mar 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE WWWWWWW<br>DET P NNNNN | Frequency                    |
|-------------------------------|--|--|--|------------------------------|
| Ref Offset 11.98 dB           |  | 1  | //kr2 4.874 GHz<br>-63.86 dBm  | Auto Tun                     |
| 00<br>00<br>00<br>00          |  |  |  | Center Fre<br>9.015000000 GH |
|                               | 2 3  | As the data was a second s | upan manga ang katalan   | Start Fre<br>30.000000 MH    |
| 0.0                           |  |  |  | Stop Fre<br>18.000000000 GH  |
| tart 30 MHz<br>Res BW 1.0 MHz | #VBW 3.0 MHz   | Sweep  | Stop 18.000 GHz<br>30.0 ms (1001 pts)                                      | CF Ste<br>1.797000000 GF     |
| 2 N 1 f 4                     | 437 GHz -57.81 dBm<br>.874 GHz -63.86 dBm<br>.311 GHz -64.45 dBm | FUNCTION FUNCTION WIDTH  | FUNCTION VALUE   | Auto Ma<br>Freq Offs<br>0 H  |
| 6<br>7<br>8<br>9<br>0         |  |  |  |                              |

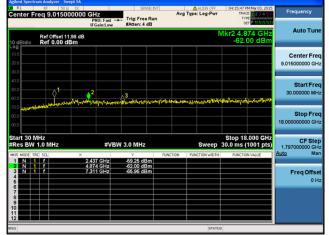
Antenna C

Antenna B

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### Conducted Spurs Peak, 2437 MHz, HT/VHT20 Beam Forming, M16 to M23, M0 to M9 3ss



| gilent Spectrum Analyzer - Swept SA         |                             |                                |                                |   |                                |
|---|-----------------------------|--------------------------------|--------------------------------|---|--------------------------------|
| RL RF 50 Ω DC                               |                             | SENSE:INT                      | ALIGN OFF<br>Avg Type: Log-Pwr | 04:18:12 PM Mar 03, 2015<br>TRACE   | Frequency                      |
| Center Freq 9.0150000                       | PNO: Fast +++<br>IFGain:Low | Trig: Free Run<br>#Atten: 4 dB | And the role at                | TYPE<br>DET PINNIN  |                                |
| Ref Offset 11.98 d<br>0 dB/div Ref 0.00 dBm | в                           |                                |                                | Vkr2 4.874 GHz<br>-61.31 dBm  | Auto Tune                      |
| 200   |                             |                                |                                |   | Center Freq<br>9.015000000 GHz |
|   |                             | 3                              | Contraction by a brown         | الم المراجع المعالية والمراجع المراجع ا | Start Free<br>30.000000 MHz    |
|   |                             |                                |                                |   | Stop Free<br>18.00000000 GHz   |
| tart 30 MHz<br>Res BW 1.0 MHz               | #VBW                        | 3.0 MHz                        | Sweep                          | Stop 18.000 GHz<br>30.0 ms (1001 pts)   | CF Step<br>1.797000000 GH      |
| KR MODE TRC SCL >                           | 2.437 GHz                   | -58.73 dBm                     | CTION FUNCTION WIDTH           | FUNCTION VALUE  | Auto Mar                       |
| 2 N 1 F<br>3 N 1 F<br>4                     | 4.874 GHz<br>7.311 GHz      | -61.31 dBm<br>-65.99 dBm       |                                |   | Freq Offse<br>0 H:             |
| 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9   |                             |                                |                                |   |                                |
| 2 <b>3</b> 0                                |                             |                                | STATU                          | s   |                                |

Antenna A

| enter Freq 9.015000                                   | 000 GHz       | SENSE:INT A<br>g: Free Run<br>ten: 4 dB | ALIGN OFF           | 04:20:39 PM Mar 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE<br>DET PNNNNN | Frequency                    |
|---|---------------|---|---------------------|---|------------------------------|
| Ref Offset 11.98                                      | dB            |   | N                   | 1kr2 4.874 GHz<br>-63.86 dBm                                      | Auto Tun                     |
|   |               |   |                     |   | Center Fre<br>9.015000000 GH |
|   | 2 3           | aly and a state of a special state.     | Burgersycanolikarro | eluterio con antipo de la const                                   | Start Fre<br>30.000000 Mi    |
| 0.0<br>0.0<br>0.0                                     |               |   |                     |   | Stop Fre<br>18.000000000 GF  |
| tart 30 MHz<br>Res BW 1.0 MHz                         | #VBW 3.0      | MHz                                     | Sweep               | Stop 18.000 GHz<br>30.0 ms (1001 pts)                             | CF Ste<br>1.79700000 GF      |
| KR MODE TRC SCL<br>1 N 1 f<br>2 N 1 f<br>3 N 1 f<br>4 | 4.874 GHz -63 | FUNCTION<br>81 dBm<br>86 dBm<br>45 dBm  | FUNCTION WIDTH      | FUNCTION VALUE  | Auto Mi<br>Freq Offs<br>0 H  |
| 6<br>7<br>8<br>9<br>0                                 |               |   |                     |   |                              |
| 2   |               |   |                     |   |                              |

Antenna C

Antenna B

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cisco

### Conducted Spurs Peak, 2437 MHz, HT/VHT20 STBC, M0 to M7



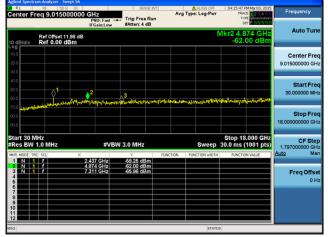
|                      | RF 50 Ω<br>req 9.01500   | 0000 GHz<br>PNO: Fast                 | SENSE:INT                              | Aug Type: Log-Pwr                              | 04:18:12 PM Mar 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE     | Frequency                             |
|----------------------|--|---------------------------------------|--|--|---|---------------------------------------|
| 0 dB/div             | Ref Offset 11.<br>Ref 0.00 dE  |                                       | #Atten: 4 dB                           |  | Mkr2 4.874 GHz<br>-61.31 dBm                            | Auto Tune                             |
| 0.0<br>20.0<br>20.0  |  |                                       |  |  |   | Center Fred<br>9.015000000 GH         |
| 10.0<br>10.0<br>10.0 | 21<br>21   | 2<br>Andrew with the space of streets | A3                                     | And a the put place of the stand of the second | ethough a grafe a sail para said                        | Start Free<br>30.000000 MH            |
| 0.0<br>0.0<br>0.0    | and the second |                                       |  |  |   | Stop Free<br>18.00000000 GH           |
| KRĮ MODE  TI         | 1.0 MHz  | ×                                     |  | Sweep<br>FUNCTION FUNCTION WIDTH               | Stop 18.000 GHz<br>30.0 ms (1001 pts)<br>FUNCTION VALUE | CF Step<br>1.797000000 GH<br>Auto Mar |
|                      |  | 2.437 GHz<br>4.874 GHz<br>7.311 GHz   | -58.73 dBm<br>-61.31 dBm<br>-65.99 dBm |  |   | Freq Offse<br>0 H:                    |
| 9<br>0               |  |                                       |  |  |   |                                       |

Antenna B

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### Conducted Spurs Peak, 2437 MHz, HT/VHT20 STBC, M0 to M7



|   | 0 Q DC                     |                | SENS                     |           | ALIGN OFF                 |                   | PM Mar 03, 2015          | Frequency  |
|---|----------------------------|----------------|--------------------------|-----------|---------------------------|-------------------|--------------------------|--|
| enter Freq 9.015  | P                          | NO: Fast -     | Trig: Free F             | Run       | wg Type: Log-Pwr          | Т                 | ACE 23456<br>VPE VINNINN | ricqueriey   |
|   | IF                         | Gain:Low       | #Atten: 4 di             | 8         |                           |                   | 874 GHz                  | Auto Tune  |
| Ref Offset  |                            |                |                          |           |                           |                   | .31 dBm                  |  |
| 10.0  |                            |                |                          |           |                           |                   |                          | Center Fred  |
| :0.0  |                            |                |                          |           |                           |                   |                          | 9.015000000 GH   |
| 0.0   |                            |                |                          |           |                           |                   |                          |  |
| 0.0   |                            |                |                          |           |                           |                   |                          | Start Free   |
| 80.0 Y  | - 10.da billio la          | a Married      | 3                        | www.ildan | and and the second street | ethered a second  | and working the          | 30.000000 MH:  |
| 10.0 shut marked 0.0  | Color in the second second | As it must     | 1                        |           | and the second second     |                   |                          |  |
| and other and the   |                            |                |                          |           |                           |                   |                          | Stop Erec  |
| 20.0  |                            |                |                          |           |                           |                   |                          |  |
| 0.0   |                            |                |                          |           |                           |                   |                          |  |
| itart 30 MHz  |                            | #VB            | W 3.0 MHz                |           | Sweep                     | Stop 1<br>30.0 ms | 8.000 GHz<br>(1001 pts)  | 18.00000000 GH   |
| tart 30 MHz<br>Res BW 1.0 MHz   | ×                          |                | Y                        | FUNCTION  |                           | 30.0 ms           | 8.000 GHz<br>(1001 pts)  | 18.00000000 GH<br>CF Step<br>1.79700000 GH   |
| tart 30 MHz<br>Res BW 1.0 MHz<br>RR DBU 1.0 MHz<br>RR NDE TRC SCL<br>1 N 1 f<br>2 N 1 f   | 2.43                       | 7 GHz<br>4 GHz | -58.73 dBn<br>-61.31 dBn | n<br>n    |                           | 30.0 ms           | (1001 pts)               | 18.00000000 GH<br>CF Step<br>1.79700000 GH<br>Auto Mar   |
| tart 30 MHz<br>Res BW 1.0 MHz<br>RR MODE TRC SCL<br>1 N 1 f<br>2 N 1 f<br>3 N 1 f   | 2.43                       | 7 GHz          | Y<br>-58.73 dBr          | n<br>n    |                           | 30.0 ms           | (1001 pts)               | 18.00000000 GH<br>CF Step<br>1.797000000 GH<br><u>Auto</u> Mar<br>Freq Offse                       |
| tart 30 MHz<br>Res BW 1.0 MHz<br>Rr NDE TRC SCL<br>1 N 1 f  | 2.43                       | 7 GHz<br>4 GHz | -58.73 dBn<br>-61.31 dBn | n<br>n    |                           | 30.0 ms           | (1001 pts)               | 18.00000000 GH:<br>CF Step<br>1.797000000 GH:<br><u>Auto</u> Mar<br>Freq Offset                    |
| Image: start 30 MHz           Res BW 1.0 MHz           Res BW 1.0 MHz           Image: start 30 M | 2.43                       | 7 GHz<br>4 GHz | -58.73 dBn<br>-61.31 dBn | n<br>n    |                           | 30.0 ms           | (1001 pts)               | 18.00000000 GH:<br>CF Step<br>1.797000000 GH:<br><u>Auto</u> Mar<br>Freq Offset                    |
| tart 30 MHz<br>Res BW 1.0 MHz<br>Res BW 1.0 MHz<br>1 N 1 7<br>2 N 1 7<br>3 N 1 7<br>6 6<br>7 7<br>8 9<br>0  | 2.43                       | 7 GHz<br>4 GHz | -58.73 dBn<br>-61.31 dBn | n<br>n    |                           | 30.0 ms           | (1001 pts)               | 18.00000000 GH<br>CF Step<br>1.797000000 GH<br><u>Auto</u> Mar<br>Freq Offse                       |
| tart 30 MHz<br>Res BW 1.0 MHz<br>RR MORE TRC SC.<br>1 N 1 f<br>3 N 1 f<br>6 6<br>6 7<br>7 8   | 2.43                       | 7 GHz<br>4 GHz | -58.73 dBn<br>-61.31 dBn | n<br>n    |                           | 30.0 ms           | (1001 pts)               | Stop Free<br>18.00000000 GH:<br>CF Step<br>1.79700000 GH:<br><u>Auto</u> Mar<br>Freq Offse<br>0 H: |

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| enter Freq 9.015000                    | 0000 GHz<br>PN0: Fast ↔<br>IFGain:Low | . Trig: Free Run<br>#Atten: 4 dB | Avg Type: Log-Pwr                          | 04:20:39 PM Mar 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE 06T P. N.N.N.N. | Frequency                     |
|--|---------------------------------------|----------------------------------|--|---|-------------------------------|
| Ref Offset 11.9<br>dB/div Ref 0.00 dBr | 8 dB<br>m                             |                                  | ٨  | 1kr2 4.874 GHz<br>-63.86 dBm  | Auto Tune                     |
|  |                                       |                                  |  |   | Center Free<br>9.015000000 GH |
|  | 2<br>Yiliyi ada qidiyi sofad          | ∧3<br>βrannahartharbetrar        | 10-11-14-14-14-14-14-14-14-14-14-14-14-14- | tani contra contra da da da   | Start Free<br>30.000000 MH    |
| 0.0 0                                  |                                       |                                  |  |   | Stop Fre<br>18.00000000 GH    |
| tart 30 MHz<br>Res BW 1.0 MHz          | #VBW                                  | 3.0 MHz                          | Sweep                                      | Stop 18.000 GHz<br>30.0 ms (1001 pts)                               | CF Step<br>1.797000000 GH     |
| KR MODE TRC SCL                        | ×<br>2.437 GHz                        | -57.81 dBm                       | NCTION FUNCTION WIDTH                      | FUNCTION VALUE  | <u>Auto</u> Ma                |
| 2 N 1 f<br>3 N 1 f<br>4                | 4.874 GHz<br>7.311 GHz                | -63.86 dBm<br>-64.45 dBm         |  |   | Freq Offse<br>0 H             |
|  |                                       |                                  |  |   |                               |
| 6<br>7<br>8<br>9<br>0                  |                                       |                                  |  |   |                               |

Antenna C

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### Conducted Spurs Peak, 2462 MHz, CCK, 1 to 11 Mbps

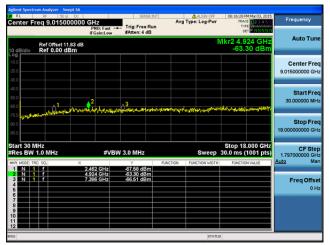


Antenna A

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### Conducted Spurs Peak, 2462 MHz, CCK, 1 to 11 Mbps





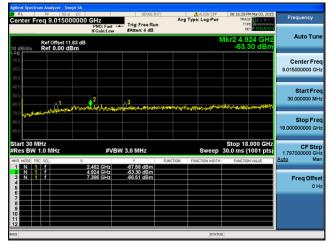
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Antenna B

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### Conducted Spurs Peak, 2462 MHz, CCK, 1 to 11 Mbps





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Antenna B

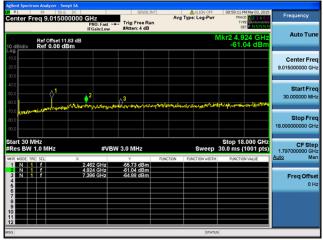
| Antenna A | 4 |
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| Aglient Spectrum Analyzer - Swept SA<br>RL RF 50 g DC<br>Center Freq 9.01500000 | PNO: Fast Trig: Free R   | Avg Type: Log-Pwr<br>un           | 06:19:38 PM Mar 03, 2015<br>TRACE 1 2 3 4 5 6<br>TYPE | Frequency                            |
|---|--|-----------------------------------|---|--------------------------------------|
| Ref Offset 11.83 di<br>10 dB/div Ref 0.00 dBm                                   | IFGain:Low #Atten: 4 dB  |                                   | Mkr2 4.924 GHz<br>-64.27 dBm                          | Auto Tune                            |
| - 0g<br>10.0<br>20.0<br>30.0  |  |                                   |   | Center Free<br>9.015000000 GH:       |
|   | 2<br>harrow 3<br>harrow the second second                            | 1.14+he-1-9++++++1+4+16+++974*+++ | arteries (verse)                                      | Start Free<br>30.000000 MH           |
| 80.0<br>90.0  |  |                                   |   | Stop Free<br>18.000000000 GH         |
| Start 30 MHz<br>#Res BW 1.0 MHz   | #VBW 3.0 MHz   |                                   | Stop 18.000 GHz<br>30.0 ms (1001 pts)                 | CF Stej<br>1.797000000 GH<br>Auto Ma |
| MKR MODE TRC SCL X<br>1 N 1 f<br>2 N 1 f<br>3 N 1 f<br>4 6                      | 2.462 GHz -54.14 dBm<br>4.924 GHz -64.27 dBm<br>7.386 GHz -66.61 dBm |                                   | FUNCTION VALUE  | Freq Offse<br>0 H                    |
| 8<br>9<br>10<br>11<br>12  |  |                                   |   |                                      |
| 50  |  | STAT                              | 15  |                                      |

Antenna C

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### Conducted Spurs Peak, 2462 MHz, 6 to 54 Mbps

Antenna A

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Conducted Spurs Peak, 2462 MHz, 6 to 54 Mbps





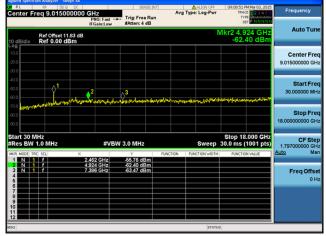
Antenna B

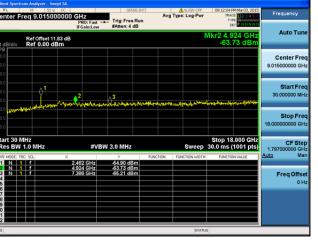
Antenna A

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### Conducted Spurs Peak, 2462 MHz, 6 to 54 Mbps





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Antenna B

### Antenna A

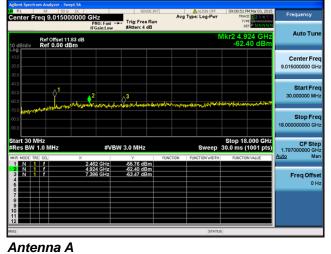
| enter Fr                           |                             | 00000 GHz<br>PN0: Fast              | Trig: Free Run                         | Avg Type: Log-Pwr   | 09:15:15 PM Mar 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE | Frequency                           |
|------------------------------------|-----------------------------|-------------------------------------|--|---|---|-------------------------------------|
| 0 dB/div                           | Ref Offset 11<br>Ref 0.00 d |                                     | #Atten: 4 dB                           | N   | /kr2 4.924 GHz<br>-63.28 dBm                        | Auto Tun                            |
| <b>0 g</b><br>10.0<br>20.0<br>20.0 |                             |                                     |  |   |   | Center Fre<br>9.015000000 GH        |
| 0.0 0.0 0.0 0.0                    | 1<br>                       | Martine Ways                        | Alton July Min Anna Artificia          | ato hay give as a first of the | 91316-316-314-41-41-40-14-1                         | Start Fre<br>30.000000 M⊦           |
| 0.0 <b>4,394,494</b><br>0.0<br>0.0 |                             |                                     |  |   |   | Stop Fre<br>18.000000000 GH         |
| tart 30 M<br>Res BW                | 1.0 MHz                     | #VB                                 | W 3.0 MHz                              | Sweep   | Stop 18.000 GHz<br>30.0 ms (1001 pts)               | CF Ste<br>1.797000000 GH<br>Auto Ma |
| 1 N 1                              | 1                           | 2.462 GHz<br>4.924 GHz<br>7.386 GHz | -57.42 dBm<br>-53.28 dBm<br>-65.06 dBm |   | POINC HON YALDE                                     | Freq Offse                          |
|                                    |                             |                                     |  |   |   |                                     |
|                                    |                             |                                     |  |   |   |                                     |

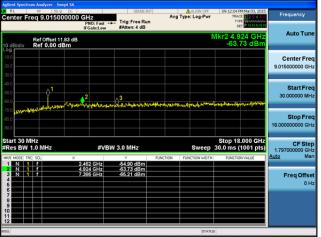
Antenna C

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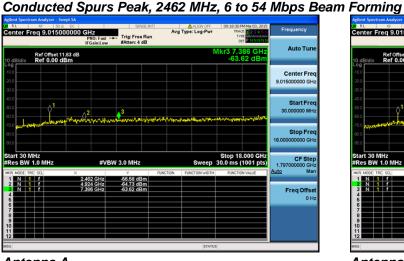




Antenna B

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## ahaha cisco



#### nd System Mayzer State # 500 00 Inter Freq 9.015000000 GHz PN0: Fast → Trig: Free Run #fastinit.ew #Atten: 4 dB Avg Type: Log-Ps Freq Auto Tu Ref Offset 11.83 dB Ref 0.00 dBm Center Fre 9.015000000 GH Start Fre ¢<sup>2</sup> 30.000000 MI Stop Fre 18.00 Stop 18.000 GHz 30.0 ms (1001 pts) tart 30 MHz Res BW 1.0 MH CF Step #VBW 3.0 MHz 1.7970 Ma -57.99 dB -63.12 dB -64.96 dB 2.462 GHz 4.924 GHz 7.386 GHz Freq Offse 0 H

Antenna B

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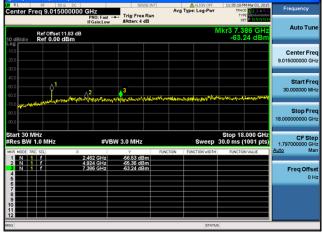
| RL RF 50 2 DC<br>enter Freq 9.015000000      | GHZ<br>PN0: Fast ↔ Trig: Free Run<br>IFGain:Low #Atten: 4 dB         | Aug Type: Log-Pwr                                      | 09:25:03 PM Mar 03, 2015<br>TRACE 2 3 4 5 6<br>TYPE WHINNINN<br>DET P. N.N.N.N. | Frequency                            |
|--|--|--|---|--------------------------------------|
| Ref Offset 11.83 dB<br>0 dB/div Ref 0.00 dBm |  | ٨  | 1kr2 4.924 GHz<br>-63.91 dBm  | Auto Tune                            |
| 00   |  |  |   | Center Fred<br>9.015000000 GH:       |
|  |  | د.<br>المرا <sup>يع</sup> ار رويد (المراجع المراجع و19 | مەربىرىمەر رايارىمەر.   | Start Free<br>30.000000 MH           |
|  |  |  |   | Stop Fre<br>18.00000000 GH           |
| tart 30 MHz<br>Res BW 1.0 MHz                | #VBW 3.0 MHz   | Sweep  | Stop 18.000 GHz<br>30.0 ms (1001 pts)   | CF Stej<br>1.797000000 GH<br>Auto Ma |
|  | 2.462 GHz -57.09 dBm<br>1.924 GHz -63.91 dBm<br>7.386 GHz -65.05 dBm |  |   | Freq Offse<br>0 H                    |
| 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9      |  |  |   |                                      |

Antenna C

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### Conducted Spurs Peak, 2462 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss





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### Conducted Spurs Peak, 2462 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss





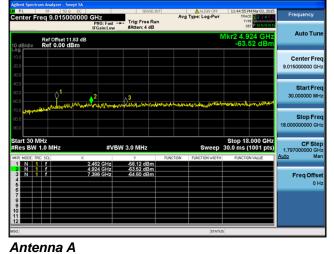
Antenna A

Antenna B

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### Conducted Spurs Peak, 2462 MHz, HT/VHT20, M0 to M7, M0 to M9 1ss



|   | 50 g DC                     | SENSE   |   | ALIGN OFF                   | 11:48:09 PM Mar 03, 201                  | Frequency   |
|---|-----------------------------|---|---|-----------------------------|--|---|
| enter Freq 9.015  | 5000000 GHz<br>PNO: Fas     | Trig: Free R  | un  | Type: Log-Pwr               | TRACE 2345                               |   |
|   | IFGain:Lo                   | w #Atten: 4 dB  |   |                             | DET PINNNN                               |   |
| Ref Offset  | t 11.83 dB                  |   |   | l                           | Mkr2 4.924 GH2<br>-63.73 dBm             |   |
| dB/div Ref 0.00   | ) dBm                       |   |   |                             | -03.73 dBi                               |   |
| 0.0   |                             |   |   |                             |  | Center Free   |
| 0.0   |                             |   |   |                             |  | 9.015000000 GH                                      |
|   |                             |   |   |                             |  |   |
| 1.0   |                             |   |   |                             |  | Start Fre   |
| 1.0 A <sup>1</sup>  |                             |   |   |                             |  | 30.000000 MH  |
| 0.0 ×   | 2                           |   |   |                             | Number of the state                      | 30.000000 MH  |
| 0.0 marshare sont sont light  | And States & Barry States   | gente al la seguera de la s | an an air search and the search and | and the state of the second | a an |   |
| 0.0   |                             |   |   |                             |  | Stop Free   |
|   |                             |   |   |                             |  | 18.00000000 GH                                      |
| 0.0   |                             |   |   |                             |  |   |
|   |                             |   |   |                             |  |   |
| tart 30 MHz   | 40                          | /PW 2.0 MHz   |   | Swaan                       | Stop 18.000 GH:                          | CF Step   |
| tart 30 MHz<br>Res BW 1.0 MHz   |                             | VBW 3.0 MHz   |   |                             | 30.0 ms (1001 pts                        | CF Step<br>1.797000000 GH                           |
| tart 30 MHz<br>Res BW 1.0 MHz<br>KR MODE TRC SCL  | ×                           | Y   | FUNCTION  | Sweep<br>FUNCTION WIDTH     | 30.0 ms (1001 pts                        | CF Step   |
| tart 30 MHz<br>Res BW 1.0 MHz<br>RR MODE TRC SCL<br>1 N 1 f<br>2 N 1 f  | ×<br>2.462 GHz<br>4.924 GHz | -55.54 dBm<br>-63.73 dBm  |   |                             | 30.0 ms (1001 pts                        | CF Ster<br>1.797000000 GH<br>Auto Mar               |
| tart 30 MHz<br>Res BW 1.0 MHz<br>KRI MODE TRC SCL   | ×<br>2.462 GHz              | -55.54 dBm<br>-63.73 dBm  |   |                             | 30.0 ms (1001 pts                        | CF Step<br>1.797000000 GH<br>Auto Mar<br>Freq Offse |
| tart 30 MHz<br>Res BW 1.0 MHz<br>KR MODE TRC SCL<br>1 N 1 f<br>2 N 1 f<br>3 N 1 f<br>4 6                        | ×<br>2.462 GHz<br>4.924 GHz | -55.54 dBm<br>-63.73 dBm  |   |                             | 30.0 ms (1001 pts                        | CF Ster<br>1.797000000 GH<br>Auto Mar               |
| tart 30 MHz<br>Res BW 1.0 MHz<br>KR MODE TRC SCL<br>1 N 1 f<br>2 N 1 f<br>3 N 1 f<br>6 6                        | ×<br>2.462 GHz<br>4.924 GHz | -55.54 dBm<br>-63.73 dBm  |   |                             | 30.0 ms (1001 pts                        | CF Step<br>1.797000000 GH<br>Auto Mar<br>Freq Offse |
| tart 30 MHz<br>Res BW 1.0 MHz<br>KR MODE TRC SCI<br>1 N 1 f<br>2 N 1 f<br>3 N 1 f<br>6 6<br>7 8                 | ×<br>2.462 GHz<br>4.924 GHz | -55.54 dBm<br>-63.73 dBm  |   |                             | 30.0 ms (1001 pts                        | CF Step<br>1.797000000 GH<br>Auto Mar<br>Freq Offse |
| tart 30 MHz<br>Res BW 1.0 MHz<br>Res BW 1.0 MHz<br>XR MODE TRC SC.<br>2 N 1 f<br>3 N 1 f<br>6 6<br>7 8<br>9 0   | ×<br>2.462 GHz<br>4.924 GHz | -55.54 dBm<br>-63.73 dBm  |   |                             | 30.0 ms (1001 pts                        | CF Step<br>1.797000000 GH<br>Auto Mar<br>Freq Offse |
| tart 30 MHz<br>Res BW 1.0 MHz<br>Res RM00E TRC SL<br>1 N 1 7<br>2 N 1 7<br>3 N 1 7<br>4 6<br>6<br>6<br>7<br>8 9 | ×<br>2.462 GHz<br>4.924 GHz | -55.54 dBm<br>-63.73 dBm  |   |                             | 30.0 ms (1001 pts                        | CF Step<br>1.797000000 GH<br>Auto Mar<br>Freq Offse |

Antenna B

| enter Fr                     | eq 9.0150                  | P  | 12<br>NO: Fast -<br>Gain:Low             |                                     |        | Avg     | ALIGN OFF<br>Type: Log-Pwr | TRA           | M Mar 03, 2015<br>EE 123456<br>PE WARDON N N | Frequ           | ency                    |
|------------------------------|----------------------------|--|--|-------------------------------------|--------|---------|----------------------------|---------------|--|-----------------|-------------------------|
| dB/div                       | Ref Offset 1<br>Ref 0.00 c | 1.83 dB  | osm.cow                                  |                                     |        |         | ٨                          |               | 86 GHz<br>09 dBm                             | Au              | to Tun                  |
|                              |                            |  |  |                                     |        |         |                            |               |  | Cen<br>9.015000 | ter Fre                 |
| 1.0<br>1.0<br>1.0            | 1                          | 2 Annual An | -4-14-14-14-14-14-14-14-14-14-14-14-14-1 | 3                                   | -water | weintel | بەلىرىمىيە<br>ئىلىرىمىيە   | (Publicanodos | grant-st/188814                              |                 | art Fre                 |
| 0.0                          |                            |  |  |                                     |        |         |                            |               |  | St<br>18.00000  | op Fre                  |
| tart 30 N<br>Res BW          | 1.0 MHz                    | ×  | #VB                                      | W 3.0 MHz                           | 0.0    | NCTION  | Sweep                      | 30.0 ms (     | .000 GHz<br>1001 pts)                        | 1.79700         | CF Ste<br>0000 GI<br>Ma |
| 1 N 1<br>2 N 1<br>3 N 1<br>4 | 1                          | 2.40   | 2 GHz<br>4 GHz<br>6 GHz                  | -54.32 dB<br>-64.24 dB<br>-64.09 dB | m<br>m |         |                            | 10101         |  | Fre             | q Offs<br>0 ⊦           |
|                              |                            |  |  |                                     |        |         |                            |               |  |                 |                         |

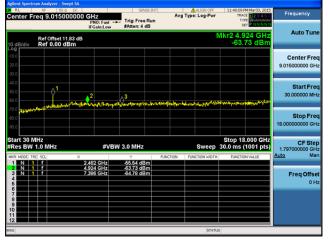
Antenna C

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### Conducted Spurs Peak, 2462 MHz, HT/VHT20, M8 to M15, M0 to M9 2ss





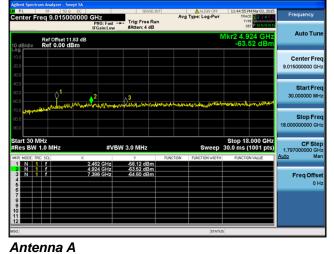
Antenna B

Antenna A

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### Conducted Spurs Peak, 2462 MHz, HT/VHT20, M8 to M15, M0 to M9 2ss



| RL         |                        | DR DC           |                        | SENS         |           |                  | ALIGN OFF   |               | PM Mar 03, 2015 | Frequency             |             |
|------------|------------------------|-----------------|------------------------|--------------|-----------|------------------|-------------|---------------|-----------------|-----------------------|-------------|
| enter Fr   | eq 9.015               | 000000 G        | PNO: Fast              | Trig: Free F | Run       | Avg Type         | : Log-Pwr   | T             |                 | Frequency             |             |
|            |                        | 11              | Gain:Low               | #Atten: 4 di | 8         |                  |             |               | 924 GHz         | Auto Tu               | un          |
| ) dB/div   | Ref Offset<br>Ref 0.00 | 11.83 dB<br>dBm |                        |              |           |                  |             |               | .73 dBm         |                       |             |
| 0.0        |                        |                 |                        |              |           |                  |             |               |                 | Center F              | rec         |
| 0.0        |                        |                 |                        |              |           |                  |             |               |                 | 9.015000000           | GH          |
| 0.0        |                        |                 |                        |              |           |                  |             |               |                 |                       |             |
| a.a        |                        |                 |                        |              |           |                  |             |               |                 | Start F               |             |
| 0.0        | ΗY.                    |                 | 2<br>Vand V Harrison d | 3            | Accelient | الموند المعالمين | de Martin   | W. Marthanson | (many and an    | 30.000000 N           | MH:         |
| 0.0<br>0.0 | Aquil Constitution     | laha            | and down only          |              |           |                  |             |               |                 | Stop F                | rec         |
| 0.0        |                        |                 |                        |              |           |                  |             |               |                 | 18.00000000 0         |             |
| tart 30 M  | Hz                     |                 |                        |              |           |                  |             | Stop 1        | 8.000 GHz       |                       |             |
| Res BW     |                        |                 | #VB                    | W 3.0 MHz    |           |                  | Sweep       |               | (1001 pts)      | CF S<br>1.797000000 0 | GH          |
| KR MODE TR |                        | ×               | 62 GHz                 | -55,54 dBr   | FUNCTIO   | N FUN            | CTION WIDTH | FUNCTI        | ON VALUE        | Auto I                | Mar         |
| 2 N 1      | Î Î                    | 4.9             | 24 GHz                 | -63.73 dBn   | n         |                  |             |               |                 |                       |             |
| 3 N 1<br>4 | 1                      | 7.3             | 86 GHz                 | -64.78 dBn   | n         |                  |             |               |                 | Freq Off              | fse<br>o Hi |
| 6          |                        |                 |                        |              |           |                  |             |               |                 |                       |             |
| 8          | ++-                    |                 |                        |              |           |                  |             |               |                 |                       |             |
| 9          |                        |                 |                        |              |           |                  |             |               |                 |                       |             |
| 1          |                        |                 |                        |              |           |                  |             |               |                 |                       |             |
| 2          |                        |                 |                        |              |           |                  |             |               |                 |                       |             |
| -          |                        |                 |                        |              |           |                  |             |               |                 |                       |             |

Antenna B

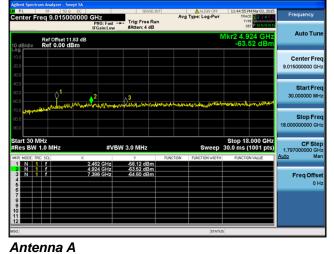
|                             |                      | 5000000 G | 1z<br>NO: Fast          | SENSE:                                 | Ave                   | Type: Log-Pwr   | 11:51:20 PM Mar 03, 2015<br>TRACE 2 3 4 5 0<br>TYPE | Frequency                    |
|-----------------------------|----------------------|-----------|-------------------------|--|-----------------------|-----------------|---|------------------------------|
| 0 dB/div                    | Ref Offse<br>Ref 0.0 | 1F        | Gain:Low                | #Atten: 4 dB                           |                       |                 | Mkr3 7.386 GHz<br>-64.09 dBm                        |                              |
| .og<br>10.0<br>20.0<br>30.0 |                      |           |                         |  |                       |                 |   | Center Fre<br>9.015000000 GH |
| 40.0<br>50.0<br>50.0        | ^1                   |           | da da ulta              | 3                                      | and the second second | AND A THE PARTY | l (Publician de le page de 1998)                    | Start Fre<br>30.000000 M⊦    |
| 70.0 <b></b>                | ALA DE ACTUERS       |           |                         |  |                       |                 |   | Stop Fre<br>18.00000000 GH   |
| tart 30 Res BW              | 1.0 MHz              | ×         | #VB                     | W 3.0 MHz                              | FUNCTION              | Sweep           | Stop 18.000 GHz<br>30.0 ms (1001 pts)               |                              |
| 1 N<br>2 N<br>3 N<br>4      |                      | 2.46      | 2 GHz<br>4 GHz<br>6 GHz | -54.32 dBm<br>-64.24 dBm<br>-64.09 dBm | PORCHON               | PORCTON WIDTH   | POINCHION VALUE                                     | Freq Offse                   |
| 6<br>7<br>8<br>9            |                      |           |                         |  |                       |                 |   |                              |

Antenna C

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### Conducted Spurs Peak, 2462 MHz, HT/VHT20, M16 to M23, M0 to M9 3ss



|                               | 50 Q DC              |            | SENSE:                   |             | ALIGN OFF   |                           | M Mar 03, 2015                                | Frequency                 |
|-------------------------------|----------------------|------------|--------------------------|-------------|---|---------------------------|---|---------------------------|
| enter Freq 9.01               | PNC                  | : Fast +++ | Trig: Free R             | Avg<br>un   | Type: Log-Pwr   | TRACI                     | 123456<br>WNNNNN<br>PNNNNN                    | Frequency                 |
|                               |                      | in:Low     | #Atten: 4 dB             |             |   | Mkr2 4.9                  |   | Auto Tune                 |
| Ref Offs<br>D dB/dlv Ref 0.0  | et 11.83 dB<br>0 dBm |            |                          |             |   |                           | /3 dBm  |                           |
| 0.0                           |                      |            |                          |             |   |                           |   | Center Free               |
| 0.0                           |                      |            |                          |             |   |                           |   | 9.015000000 GH            |
| 0.0                           |                      |            |                          |             |   |                           |   | StartFree                 |
| 0.0                           | <u>^2</u>            |            | ^3                       |             |   |                           |   | 30.000000 MH              |
| 0.0                           |                      | Maryan     | Sand Barrent Constant    | watergentym | مرادی به از ایسار ایردند.<br>مرادعه به از ایسار ایردند. | age were the state of the | an and an |                           |
| 0.0                           |                      |            |                          |             |   |                           |   | Stop Fre                  |
| 90.0                          |                      |            |                          |             |   |                           |   | 18.00000000 GH            |
| tart 30 MHz<br>Res BW 1.0 MHz |                      | #VBW       | 3.0 MHz                  |             | Sween   | Stop 18.<br>30.0 ms (1    | 000 GHz                                       | CF Ste                    |
| KR MODE TRC SCL               | ×                    |            | Y                        | FUNCTION    | FUNCTION WIDTH  | FUNCTION                  |   | 1.797000000 GH<br>Auto Ma |
| 1 N 1 F<br>2 N 1 F            | 2.462<br>4.924       | GHz<br>GHz | -55.54 dBm<br>-63.73 dBm |             |   |                           |   |                           |
| 3 N <b>1</b> f                | 7.386                |            | -64.78 dBm               |             |   |                           |   | Freq Offse                |
| 6                             |                      |            |                          |             |   |                           |   | 0 H                       |
| 7                             |                      |            |                          |             |   |                           |   |                           |
| 9                             |                      |            |                          |             |   |                           |   |                           |
|                               |                      |            |                          |             |   |                           |   |                           |
| 2                             |                      |            |                          |             |   |                           |   |                           |
|                               |                      |            |                          |             |   |                           |   |                           |

Antenna B

| enter F             |                        |                         | D: Fast +++ | SENS<br>Trig: Free F                   | Run    |              | e: Log-Pwr        | TRA                | M Mar 03, 2015        | Frequen                  | icy                  |
|---------------------|------------------------|-------------------------|-------------|--|--------|--------------|-------------------|--------------------|-----------------------|--------------------------|----------------------|
| ) dB/div            | Ref Offset<br>Ref 0.00 | 11.83 dB                | in:Low      | #Atten: 4 d                            | 8      |              | N                 | lkr3 7.3           | 86 GHz<br>09 dBm      | Auto                     | Tun                  |
|                     |                        |                         |             |  |        |              |                   |                    |                       | Cente<br>9.0150000       |                      |
| 1.0<br>1.0<br>1.0   |                        | 2                       | -Aulauka    | 3                                      |        | and set of a | ر<br>مىلىلى مايول | (Kalilana kana) (K | Annesis - 1988        | Star<br>30.00000         |                      |
| 0.0                 | *****                  |                         |             |  |        |              |                   |                    |                       | Stop<br>18.00000000      |                      |
| tart 30 I<br>Res BW | 1.0 MHz                | ×                       | #VBW        | 3.0 MHz                                | FUNC   |              | Sweep             | 30.0 ms (          | .000 GHz<br>1001 pts) | CF<br>1.79700000<br>Auto | F Ste<br>00 GI<br>Mi |
| 1 N 5<br>3 N 5      | 1                      | 2.462<br>4.924<br>7.386 | GHz         | -54.32 dBr<br>-64.24 dBr<br>-64.09 dBr | n<br>n |              |                   | 10101              |                       | Freq                     | Offs<br>0 I          |
| 6<br>7<br>8         |                        |                         |             |  |        |              |                   |                    |                       |                          |                      |

Antenna C

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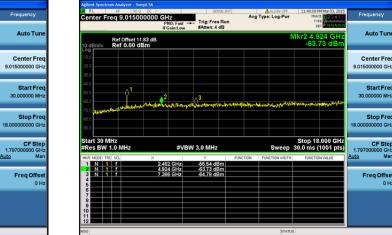
Avg Type: Log-P

ast ---- Trig: Free Run

W 3.0 MHz

4.924 GHz 7.386 GHz

-58.12 dBm -63.52 dBm -64.60 dBm



uhuhu cisco

### Conducted Spurs Peak, 2462 MHz, HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss

18.00

Stop 18.000 GHz Sweep 30.0 ms (1001 pts)

Antenna A

enter Freq 9.015000000 GHz

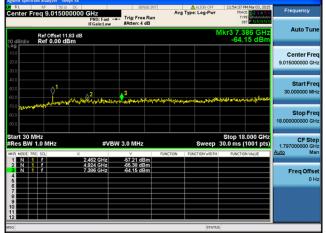
Ref Offset 11.83 dB Ref 0.00 dBm

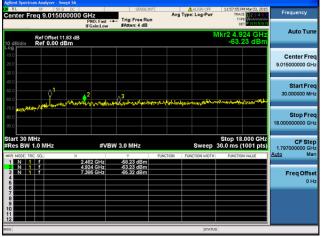


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### Conducted Spurs Peak, 2462 MHz, HT/VHT20 Beam Forming, M0 to M7, M0 to M9 1ss





Antenna A

| enter Freq 9.015000000        | GHZ<br>PNO: Fast     | SENSE:IN                 | Avg        | ALIGN OFF<br>Type: Log-Pwr | 12:01:08 AM Mar 04, 2015<br>TRACE 2 3 4 5 0<br>TYPE P NNNN | Frequency                    |
|-------------------------------|----------------------|--------------------------|------------|----------------------------|--|------------------------------|
| Ref Offset 11.83 dB           | IFGain:Low           | #Atten: 4 dB             |            | N                          | 1kr3 7.386 GHz<br>-62.74 dBm                               | Auto Tun                     |
| 000                           |                      |                          |            |                            |  | Center Fre<br>9.015000000 GH |
|                               | 2<br>Verstersporter  | 3                        | a1404-1483 | المراجع والمراجع           | hadra-earth says of the second                             | Start Fre<br>30.000000 MH    |
|                               |                      |                          |            |                            |  | Stop Fre<br>18.000000000 GH  |
| tart 30 MHz<br>Res BW 1.0 MHz | #VBW                 | 3.0 MHz                  |            | Sweep                      | Stop 18.000 GHz<br>30.0 ms (1001 pts)                      | 1.797000000 G                |
| KR MODE TRC SCL X             | .462 GHz             | ∀<br>-58.15 dBm          | FUNCTION   | FUNCTION WIDTH             | FUNCTION VALUE   | Auto Ma                      |
| 3 N 1 f 7<br>4<br>5           | .924 GHz<br>.386 GHz | -64.07 dBm<br>-62.74 dBm |            |                            |  | Freq Offs<br>0 F             |
| 6<br>7<br>8                   |                      |                          |            |                            |  |                              |
| 9                             |                      |                          |            |                            |  |                              |

Antenna C

Antenna B

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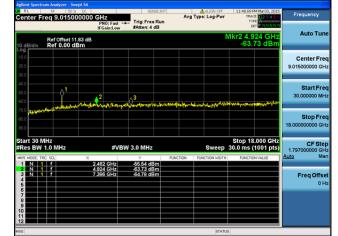
Avg Type: Log-F

ast ---- Trig: Free Run

W 3.0 MHz

4.924 GHz 7.386 GHz

-58.12 dBm -63.52 dBm -64.60 dBm



uhuhu cisco

### Conducted Spurs Peak, 2462 MHz, HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss

Auto Tun

Start Free

Stop Fre

Ma

CF Step 1.797000000 GH

Freq Offs 0 1

18.00

Stop 18.000 GHz Sweep 30.0 ms (1001 pts)

30.000000 MI

Center Fre 9.015000000 GH

Antenna A

enter Freq 9.015000000 GHz

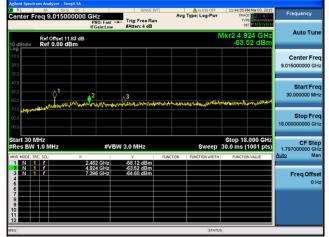
Ref Offset 11.83 dB Ref 0.00 dBm



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### Conducted Spurs Peak, 2462 MHz, HT/VHT20 Beam Forming, M8 to M15, M0 to M9 2ss



| RL RF 50 G<br>enter Freg 9.0150  | 00000 GHz                             |                                       | ALIGN OFF<br>Avg Type: Log-Pwr  | 11:48:09 PM Mar 03, 2015<br>TRACE 2 3 4 5 6  | Frequency                             |
|--|---------------------------------------|---------------------------------------|---------------------------------|--|---------------------------------------|
| Ref Offset 1   | PNO: Fast ↔<br>IFGain:Low             | . Trig:FreeRun<br>#Atten:4 dB         |                                 | Mkr2 4.924 GHz<br>-63.73 dBm   | Auto Tune                             |
|  |                                       |                                       |                                 |  | Center Free<br>9.015000000 GH         |
|  | 2<br>White and the second             | 3                                     | .4/4 had-stort-star.3/1/2.00/7 | al we to provide and a state of the state of | Start Free<br>30.000000 MH            |
|  |                                       |                                       |                                 |  | Stop Free<br>18.00000000 GH:          |
| tart 30 MHz<br>Res BW 1.0 MHz<br>KRI MODEI TRCI SOLI   | #VBV                                  | / 3.0 MHz                             | Sweep                           | Stop 18.000 GHz<br>30.0 ms (1001 pts)  | CF Step<br>1.797000000 GH<br>Auto Mar |
| NR         1         N         1         f           2         N         1         f         3         N         1         f           3         N         1         f         f         6         f | × 2.462 GHz<br>4.924 GHz<br>7.386 GHz | 55.54 dBm<br>-63.73 dBm<br>-64.78 dBm | FUNCTION WIDTH                  | runcing VALUE  | Freq Offse<br>0 H:                    |
| 1<br>2   |                                       |                                       | STATU                           | 5  |                                       |

Antenna A

| .q 5.01000                    |  | D: Fast ↔   | Trig: Free<br>#Atten: 4 d  | Run<br>B  | Avg Typ  | e: Log-Pwr  |  | E 23456<br>E Webbeer  | Freque   | ncy   |
|-------------------------------|--|---|--|---|--|---|--|---|--|---|
| Ref Offset 11.<br>Ref 0.00 di | .83 dB<br>Bm   |   |  |   |  | ٨   |  |   | Aut  | o Tun   |
|                               |  |   |  |   |  |   |  |   | Cent<br>9.015000   |   |
|                               | a la puerte de la companya de la comp | ~~~~  | 3  | etterstation selecter   | <del>n</del> ortystor  |   | rubuciandas  |   | Sta<br>30.0000   | ITT Fre   |
|                               |  |   |  |   |  |   |  |   | Sto<br>18.000000   | op Fre  |
|                               |  | #VBV  | V 3.0 MHz  |   |  | Sweep   | Stop 18<br>30.0 ms (   | .000 GHz<br>1001 pts)   | 1.797000   |   |
| 1                             | 4.924  | GHz   | -64.24 dB  | n<br>n  | TION FU  | NCTION WIDTH  | FUNCTIO  | N VALUE   |  | Mi<br>Offs<br>0 I   |
|                               |  |   |  |   |  |   |  |   |  |   |
|                               | Ref 0.00 df  | IFGa           Ref Officet 11.83 dB           Ref 0.00 dBm           Image: state sta | IF Gain: Lew<br>Ref Offset 1183 dB<br>Ref 0.00 dBm<br>1<br>1<br>1<br>2<br>2<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4 | If Galaciaw         #Attent: 4 d           Ref Ormet 11,83 dB         Ref 0.00 dBm           Ref 0.00 dBm         3           January 11,83 dB         3           Hz         3           Hz         #VBW 3.0 MHz           Y         4/20 CHz         4/24 dBt           If         4/224 CHz         4/24 dBt | If GainLow         Atten: 4 dB           Ref Orfsett 1183 dB         Ref 0.00 dBm           Ref 0.00 dBm         3           1         2           2         3           4         400 MHz           FVBW 3.0 MHz         2           2         42           1         2           4         442 dBm | If Galactow         #Atten: 4 dB           Ref Officet 11.83 dB         Ref 0.00 dBm           Ref 0.00 dBm | If Gainclow         #Atten: 4 dB           Ref Offset 11.83 dB         N           Ref 0.00 dBm         N           Image: State 11.83 dB         N           Ref 0.00 dBm         Image: State 11.83 dB           Image: State 11.83 dB         Image: State 11.83 dB | If Galaction         Afters: 4 dB         Co           Ref Ormat 11 83 dB         Mkr3 7.3         84.           Ref 0.00 dBm         -84.         -84.           Image: State 1 1 83 dB         3         -84.           Image: State 1 1 83 dB         -84.         -84.           Image: State 1 1 84.         -84.         -84.           Image: State 1 1 84.         -84.         -84.           Image: State 1 1 84.         -84.         -84. | If Galaction         After: 4 dB         Clining           Ref Ording 11 43 dB         Mkr 7, 388 GHz         -54.09 dBm           Ref 0.00 dBm         -54.09 dBm         -54.09 dBm           1         2         3         -54.09 dBm           1         2         42.00 MHz         Sweep 30.0 ms (1001 pts)           2         42.42 Bm         PARCHIN         PARCHIN           2         42.42 Bm         PARCHIN         PARCHIN | If Galacian         Attra: 4 dB         Company           Ref 0.00 dBm         -84.09 dBm         -84.09 dBm         Cent           1         2         3         -84.09 dBm         Stop           1         2         3         -84.09 dBm         Stop           1         2         3         -84.09 dBm         Stop           1         2         3         -84.09 dBm         -84.09 dBm           1         2         3         -84.09 dBm         -84.09 dBm |

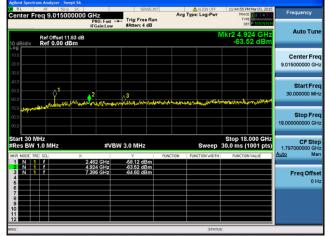
Antenna C

Antenna B

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### Conducted Spurs Peak, 2462 MHz, HT/VHT20 Beam Forming, M16 to M23, M0 to M9 3ss



|                              | eq 9.01500                   |            |         | SENS                     |               |               | ALIGN OFF           |                   | PM Mar 03, 2015         | Frequency                      |
|------------------------------|------------------------------|------------|---------|--------------------------|---------------|---------------|---------------------|-------------------|-------------------------|--------------------------------|
| enter Pr                     | eq 9.01500                   | PNO        | :Fast 🔸 | Trig: Free #             | Run           |               |                     | T                 | DET PINNNN              |                                |
| ) dB/div                     | Ref Offset 11<br>Ref 0.00 dl |            |         |                          |               |               |                     |                   | 924 GHz<br>.73 dBm      | Auto Tune                      |
| 0.0<br>0.0<br>0.0            |                              |            |         |                          |               |               |                     |                   |                         | Center Fred<br>9.015000000 GH  |
| 0.0<br>0.0<br>0.0            | 1                            | mar garran | Vhaqal  | 3<br>Suntanapir          | -hratingles.h | الودار الجاحز | alan Maral Internet | Marina Kar        | (*******                | Start Free<br>30.000000 MH;    |
| 10.0 <b>3500 MAY</b><br>10.0 |                              |            |         |                          |               |               |                     |                   |                         | Stop Fred<br>18.00000000 GH;   |
| tart 30 M<br>Res BW          |                              |            | #VBW    | 3.0 MHz                  |               |               | Sweep               | Stop 1<br>30.0 ms | 8.000 GHz<br>(1001 pts) | CF Step<br>1.797000000 GH      |
|                              |                              |            |         |                          |               |               |                     |                   |                         |                                |
| 1 N 1                        | 11                           | ×<br>2.462 |         | -55.54 dBr               |               | I FUN         | CTION WIDTH         | FUNCTI            | ION VALUE               | Auto Mar                       |
|                              | 1                            |            | GHz     |                          | n<br>n        | I FUN         | CTION WIDTH         | FUNCTI            | ION VALUE               | Auto Mar<br>Freq Offse<br>0 H: |
| 1 N 1<br>2 N 1<br>3 N 1<br>4 | 1                            | 2.462      | GHz     | -55.54 dBr<br>-63.73 dBr | n<br>n        | FUN           | CTION WIDTH         | FUNCTI            | ION VALUE               | Freq Offse                     |

Antenna A

|  | 9.015000000 G                     | HZ<br>PNO: Fast ↔<br>FGain:Low | Trig: Free Ru<br>#Atten: 4 dB               | Avg            | ALIGN OFF              | 11:51:20 PM Mar 03, 201<br>TRACE 2 3 4 5<br>TYPE 0<br>DET P.N.N.N | Frequency                    |
|--|-----------------------------------|--------------------------------|---|----------------|------------------------|---|------------------------------|
| ) dB/div 🛛 🤀   | of Offset 11.83 dB<br>ef 0.00 dBm |                                |   |                | Ν                      | 1kr3 7.386 GH:<br>-64.09 dBn                                      |                              |
|  |                                   |                                |   |                |                        |   | Center Fre<br>9.015000000 GH |
| 0.0  | 1                                 | 2                              | 3   | and the second | When the state and the | (Halinational programmer Million                                  | Start Fre<br>30.000000 MH    |
| 0.0  |                                   |                                |   |                |                        |   | Stop Fre<br>18.000000000 GH  |
| tart 30 MHz<br>Res BW 1.0  | MHz                               | #VBV                           | V 3.0 MHz                                   |                |                        | Stop 18.000 GH<br>30.0 ms (1001 pts                               | 1.797000000 GH               |
| KR         MODE         TRC         S4           1         N         1         1         1           2         N         1         1         1           3         N         1         1         1           4 | 2.                                | 162 GHz<br>24 GHz<br>386 GHz   | Y<br>-54.32 dBm<br>-64.24 dBm<br>-64.09 dBm | FUNCTION       | FUNCTION WIDTH         | FUNCTION VALUE  | Auto Ma<br>Freq Offs<br>0 H  |
| 6<br>7<br>8<br>9<br>0  |                                   |                                |   |                |                        |   |                              |

Antenna C

Antenna B

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