

**Radiated Spurious Emission (above 1GHz:Restricted band)**

**11a Tx Lower Band/Lch( 5180MHz), 54Mbps, Used Antenna for Tx: Antenna 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

Company : silex technology, Inc.  
Equipment : MiniPCI Wireless LAN Board  
Model : SX-10WAN  
S/N : 008092011317  
Power : DC 3.3V (PC input AC 120V / 60Hz)  
Mode : 11a, Tx, 5180MHz, 54Mbps, Ant 3  
EUT-Axis : (Worst) H: Y-axis, V: Y-axis  
Ant-Axis : (Worst) H: X0-axis, V: X90-axis

Regulation : FCC Part15 Subpart C 15.209 / RSS-210 A9.3  
Test Distance : 3m / 1m / 0.5m  
Date : 05/16, 2008  
Temperature : 24 deg.C.  
Humidity : 45 %  
Engineer : Takayuki Shimada

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |                 | Limit<br>PK<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-----------------|-----------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dBuV/m] | VER<br>[dBuV/m] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 1  | 5150.0           | 58.5          | 56.0          | 31.4                     | 30.9                 | 3.6                   | 0.0            | 62.6            | 60.1            | 73.9                    | 11.3        | 13.8        |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b>    |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 2  | 15540.0          | 42.6          | 42.3          | 38.3                     | 31.6                 | 7.2                   | 0.6            | 47.6            | 47.3            | 73.9                    | 26.3        | 26.6        |
| 3  | 20720.0          | 45.2          | 45.3          | 37.6                     | 31.7                 | 8.1                   | 0.0            | 49.7            | 49.8            | 73.9                    | 24.2        | 24.1        |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 4  | Above<br>26500.0 | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 73.9                    | -           | -           |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |                 | Limit<br>AV<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-----------------|-----------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dBuV/m] | VER<br>[dBuV/m] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 1  | 5150.0           | 35.3          | 33.3          | 31.4                     | 30.9                 | 3.6                   | 0.0            | 39.4            | 37.4            | 53.9                    | 14.5        | 16.5        |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b>    |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 2  | 15540.0          | 30.5          | 30.5          | 38.3                     | 31.6                 | 7.2                   | 0.6            | 35.5            | 35.5            | 53.9                    | 18.4        | 18.4        |
| 3  | 20720.0          | 32.8          | 32.8          | 37.6                     | 31.7                 | 8.1                   | 0.0            | 37.3            | 37.3            | 53.9                    | 16.6        | 16.6        |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 4  | Above<br>26500.0 | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 53.9                    | -           | -           |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

- \* Except for the above table : All other spurious emissions were less than 20dB for the limit.
- \* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
- \*The limit is rounded down to one decimal place.
- \*The test result is round off to one or two decimal places, so some differences might be observed.
- \* NS: No detect signal.

**Radiated Spurious Emission (above 1GHz:Restricted band)**  
**11a Tx Lower Band/Mch( 5200MHz), 54Mbps, Used Antenna for Tx: Antenna 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                   |               |  |
|-----------|-----------------------------------|---------------|--|
| Company   | silex technology, Inc.            | Regulation    | FCC Part15 Subpart C 15.209 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board        | Test Distance | 3m / 1m / 0.5m                             |
| Model     | SX-10WAN                          | Date          | 05/16, 2008                                |
| S/N       | 008092011317                      | Temperature   | 24 deg.C.                                  |
| Power     | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 45 %                                       |
| Mode      | 11a, Tx, 5200MHz, 54Mbps, Ant 3   | Engineer      | Takayuki Shimada                           |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis      |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis   |               |  |

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>PK<br>[dBuV/m] | Margin<br>[dB] |      |
|--|------------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|  |                  | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1  | Below<br>10000.0 | NS                | NS   | -                        | -                    | -                     | -              | -                  | -    | 73.9                    | -              | -    |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2  | 15600.0          | 43.8              | 43.5 | 38.1                     | 31.6                 | 7.2                   | 0.6            | 48.6               | 48.3 | 73.9                    | 25.3           | 25.6 |
| 3  | 20800.0          | 45.3              | 45.2 | 37.6                     | 31.8                 | 8.1                   | 0.0            | 49.7               | 49.6 | 73.9                    | 24.2           | 24.3 |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 4  | 31200.0          | NS                | NS   | -                        | -                    | -                     | -              | -                  | -    | 73.9                    | -              | -    |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>AV<br>[dBuV/m] | Margin<br>[dB] |      |
|--|------------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|  |                  | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1  | Below<br>10000.0 | NS                | NS   | -                        | -                    | -                     | -              | -                  | -    | 53.9                    | -              | -    |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2  | 15600.0          | 31.3              | 31.3 | 38.1                     | 31.6                 | 7.2                   | 0.6            | 36.1               | 36.1 | 53.9                    | 17.8           | 17.8 |
| 3  | 20800.0          | 32.3              | 32.2 | 37.6                     | 31.8                 | 8.1                   | 0.0            | 36.7               | 36.6 | 53.9                    | 17.2           | 17.3 |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 4  | 31200.0          | NS                | NS   | -                        | -                    | -                     | -              | -                  | -    | 53.9                    | -              | -    |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Restricted band)**  
**11a Tx Lower Band/Hch(5240MHz), 54Mbps, Used Antenna for Tx: Antenna 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                   |               |  |
|-----------|-----------------------------------|---------------|--|
| Company   | silex technology, Inc.            | Regulation    | FCC Part15 Subpart C 15.209 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board        | Test Distance | 3m / 1m / 0.5m                             |
| Model     | SX-10WAN                          | Date          | 05/16, 2008                                |
| S/N       | 008092011317                      | Temperature   | 24 deg.C.                                  |
| Power     | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 45 %                                       |
| Mode      | 11a, Tx, 5240MHz, 54Mbps, Ant 3   | Engineer      | Takayuki Shimada                           |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis      |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis   |               |  |

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>PK<br>[dBuV/m] | Margin<br>[dB] |      |
|--|------------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|  |                  | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1  | Below<br>10000.0 | NS                | NS   | -                        | -                    | -                     | -              | -                  | -    | 73.9                    | -              | -    |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2  | 15720.0          | 43.5              | 43.5 | 37.7                     | 31.5                 | 7.2                   | 0.6            | 48.0               | 48.0 | 73.9                    | 25.9           | 25.9 |
| 3  | 20960.0          | 46.1              | 46.3 | 37.6                     | 31.9                 | 8.1                   | 0.0            | 50.4               | 50.6 | 73.9                    | 23.5           | 23.3 |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 4  | 31440.0          | NS                | NS   | -                        | -                    | -                     | -              | -                  | -    | 73.9                    | -              | -    |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>AV<br>[dBuV/m] | Margin<br>[dB] |      |
|--|------------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|  |                  | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1  | Below<br>10000.0 | NS                | NS   | -                        | -                    | -                     | -              | -                  | -    | 53.9                    | -              | -    |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2  | 15720.0          | 31.1              | 31.1 | 37.7                     | 31.5                 | 7.2                   | 0.6            | 35.6               | 35.6 | 53.9                    | 18.3           | 18.3 |
| 3  | 20960.0          | 32.5              | 32.5 | 37.6                     | 31.9                 | 8.1                   | 0.0            | 36.8               | 36.8 | 53.9                    | 17.1           | 17.1 |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 4  | 31440.0          | NS                | NS   | -                        | -                    | -                     | -              | -                  | -    | 53.9                    | -              | -    |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

**Radiated Spurious Emission (above 1GHz:Restricted band)**  
**11a Tx Middle Band/Lch(5260MHz), 54Mbps, Used Antenna for Tx: Antenna 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                   |               |  |
|-----------|-----------------------------------|---------------|--|
| Company   | silex technology, Inc.            | Regulation    | FCC Part15 Subpart C 15.209 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board        | Test Distance | 3m / 1m / 0.5m                             |
| Model     | SX-10WAN                          | Date          | 05/16, 2008                                |
| S/N       | 008092011317                      | Temperature   | 24 deg.C.                                  |
| Power     | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 45 %                                       |
| Mode      | 11a, Tx, 5260MHz, 54Mbps, Ant 3   | Engineer      | Takayuki Shimada                           |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis      |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis   |               |  |

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |                 | Limit<br>PK<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-----------------|-----------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dBuV/m] | VER<br>[dBuV/m] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 1  | Below<br>10000.0 | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 73.9                    | -           | -           |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 2  | 15780.0          | 43.7          | 43.6          | 37.5                     | 31.5                 | 7.2                   | 0.6            | 48.0            | 47.9            | 73.9                    | 25.9        | 26.0        |
| 3  | 21040.0          | 45.8          | 46.0          | 37.6                     | 31.9                 | 8.1                   | 0.0            | 50.1            | 50.3            | 73.9                    | 23.8        | 23.6        |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 4  | 31560.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 73.9                    | -           | -           |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |                 | Limit<br>AV<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-----------------|-----------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dBuV/m] | VER<br>[dBuV/m] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 1  | Below<br>10000.0 | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 53.9                    | -           | -           |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 2  | 15780.0          | 31.4          | 31.4          | 37.5                     | 31.5                 | 7.2                   | 0.6            | 35.7            | 35.7            | 53.9                    | 18.2        | 18.2        |
| 3  | 21040.0          | 32.6          | 32.6          | 37.6                     | 31.9                 | 8.1                   | 0.0            | 36.9            | 36.9            | 53.9                    | 17.0        | 17.0        |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 4  | 31560.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 53.9                    | -           | -           |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

**UL Japan, Inc.**

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**Radiated Spurious Emission (above 1GHz:Restricted band)**  
**11a Tx Middle Band/Mch(5280MHz), 54Mbps, Used Antenna for Tx: Antenna 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                   |               |  |
|-----------|-----------------------------------|---------------|--|
| Company   | silex technology, Inc.            | Regulation    | FCC Part15 Subpart C 15.209 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board        | Test Distance | 3m / 1m / 0.5m                             |
| Model     | SX-10WAN                          | Date          | 05/16, 2008                                |
| S/N       | 008092011317                      | Temperature   | 24 deg.C.                                  |
| Power     | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 45 %                                       |
| Mode      | 11a, Tx, 5280MHz, 54Mbps, Ant 3   | Engineer      | Takayuki Shimada                           |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis      |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis   |               |  |

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>PK<br>[dBuV/m] | Margin |      |
|--|------------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|--------|------|
|  |                  | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR    | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |                   |      |                          |                      |                       |                |                    |      |                         |        |      |
| 1  | Below<br>10000.0 | NS                | NS   | -                        | -                    | -                     | -              | -                  | -    | 73.9                    | -      | -    |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |                   |      |                          |                      |                       |                |                    |      |                         |        |      |
| 2  | 15840.0          | 43.0              | 43.1 | 37.3                     | 31.5                 | 7.3                   | 0.6            | 47.2               | 47.3 | 73.9                    | 26.7   | 26.6 |
| 3  | 21120.0          | 44.3              | 44.0 | 37.6                     | 31.8                 | 8.1                   | 0.0            | 48.7               | 48.4 | 73.9                    | 25.2   | 25.5 |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |                   |      |                          |                      |                       |                |                    |      |                         |        |      |
| 4  | 31800.0          | NS                | NS   | -                        | -                    | -                     | -              | -                  | -    | 73.9                    | -      | -    |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>AV<br>[dBuV/m] | Margin |      |
|--|------------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|--------|------|
|  |                  | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR    | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |                   |      |                          |                      |                       |                |                    |      |                         |        |      |
| 1  | Below<br>10000.0 | NS                | NS   | -                        | -                    | -                     | -              | -                  | -    | 53.9                    | -      | -    |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |                   |      |                          |                      |                       |                |                    |      |                         |        |      |
| 2  | 15840.0          | 31.1              | 31.2 | 37.3                     | 31.5                 | 7.3                   | 0.6            | 35.3               | 35.4 | 53.9                    | 18.6   | 18.5 |
| 3  | 21120.0          | 31.8              | 31.8 | 37.6                     | 31.8                 | 8.1                   | 0.0            | 36.2               | 36.2 | 53.9                    | 17.7   | 17.7 |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |                   |      |                          |                      |                       |                |                    |      |                         |        |      |
| 4  | 31800.0          | NS                | NS   | -                        | -                    | -                     | -              | -                  | -    | 53.9                    | -      | -    |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

- \* Except for the above table : All other spurious emissions were less than 20dB for the limit.
- \* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
- \*The limit is rounded down to one decimal place.
- \*The test result is round off to one or two decimal places, so some differences might be observed.
- \* NS: No detect signal.

**Radiated Spurious Emission (above 1GHz:Restricted band)**  
**11a Tx Middle Band/Hch(5320MHz), 54Mbps, Used Antenna for Tx: Antenna 3**

UL Japan, Inc.

Company : silex technology, Inc.  
Equipment : MiniPCI Wireless LAN Board  
Model : SX-10WAN  
S/N : 008092011317  
Power : DC 3.3V (PC input AC 120V / 60Hz)  
Mode : 11a, Tx, 5320MHz, 54Mbps, Ant 3  
EUT-Axis : (Worst) H: Y-axis, V: Y-axis  
Ant-Axis : (Worst) H: X0-axis, V: X90-axis

Head Office EMC Lab. No.4 Anechoic Chamber  
Regulation : FCC Part15 Subpart C 15.209 / RSS-210 A9.3  
Test Distance : 3m / 1m / 0.5m  
Date : 05/16, 2008  
Temperature : 24 deg.C.  
Humidity : 45 %  
Engineer : Takayuki Shimada

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Atten. or<br>Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>PK<br>[dBuV/m] | Margin<br>[dB] |      |
|--|------------------|-------------------|------|--------------------------|----------------------|-----------------------|-----------------------------|--------------------|------|-------------------------|----------------|------|
|  |                  | HOR               | VER  |                          |                      |                       |                             | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |                   |      |                          |                      |                       |                             |                    |      |                         |                |      |
| 1  | 5350.0           | 55.4              | 54.1 | 31.5                     | 30.9                 | 3.7                   | 0.0                         | 59.7               | 58.4 | 73.9                    | 14.2           | 15.5 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |                   |      |                          |                      |                       |                             |                    |      |                         |                |      |
| 2  | 10640.0          | 40.8              | 40.5 | 39.4                     | 32.8                 | 6.1                   | 0.5                         | 44.5               | 44.2 | 73.9                    | 29.4           | 29.7 |
| 3  | 15960.0          | 43.8              | 43.6 | 36.9                     | 31.5                 | 7.3                   | 0.6                         | 47.6               | 47.4 | 73.9                    | 26.3           | 26.5 |
| 4  | 21280.0          | 44.0              | 44.4 | 37.6                     | 31.8                 | 8.2                   | 0.0                         | 48.5               | 48.9 | 73.9                    | 25.4           | 25.0 |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |                   |      |                          |                      |                       |                             |                    |      |                         |                |      |
| 5  | Above<br>26500.0 | NS                | NS   | -                        | -                    | -                     | -                           | -                  | -    | 73.9                    | -              | -    |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Atten. or<br>Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>AV<br>[dBuV/m] | Margin<br>[dB] |      |
|--|------------------|-------------------|------|--------------------------|----------------------|-----------------------|-----------------------------|--------------------|------|-------------------------|----------------|------|
|  |                  | HOR               | VER  |                          |                      |                       |                             | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |                   |      |                          |                      |                       |                             |                    |      |                         |                |      |
| 1  | 5350.0           | 34.5              | 33.6 | 31.5                     | 30.9                 | 3.7                   | 0.0                         | 38.8               | 37.9 | 53.9                    | 15.1           | 16.0 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |                   |      |                          |                      |                       |                             |                    |      |                         |                |      |
| 2  | 10640.0          | 28.6              | 28.6 | 39.4                     | 32.8                 | 6.1                   | 0.5                         | 32.3               | 32.3 | 53.9                    | 21.6           | 21.6 |
| 3  | 15960.0          | 30.9              | 30.9 | 36.9                     | 31.5                 | 7.3                   | 0.6                         | 34.7               | 34.7 | 53.9                    | 19.2           | 19.2 |
| 4  | 21280.0          | 31.8              | 31.9 | 37.6                     | 31.8                 | 8.2                   | 0.0                         | 36.3               | 36.4 | 53.9                    | 17.6           | 17.5 |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |                   |      |                          |                      |                       |                             |                    |      |                         |                |      |
| 5  | Above<br>26500.0 | NS                | NS   | -                        | -                    | -                     | -                           | -                  | -    | 53.9                    | -              | -    |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Restricted band)**

**11n(20HT) Tx Lower Band/Lch(5180MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |   |               |  |
|-----------|---|---------------|--|
| Company   | silex technology, Inc.                          | Regulation    | FCC Part15 Subpart C 15.209 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board                      | Test Distance | 3m / 1m / 0.5m                             |
| Model     | SX-10WAN  | Date          | 05/27, 2008                                |
| S/N       | 008092011314                                    | Temperature   | 23 deg.C.                                  |
| Power     | DC 3.3V (PC input AC 120V / 60Hz)               | Humidity      | 53 %                                       |
| Mode      | 11n(20HT), Tx, 5180MHz,<br>130Mbps, Ant 1, 2, 3 | Engineer      | Takahiro Hatakeda                          |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis                    |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis                 |               |  |

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |                 | Limit<br>PK<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-----------------|-----------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dBuV/m] | VER<br>[dBuV/m] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 1  | 5150.0           | 46.6          | 45.1          | 31.4                     | 30.9                 | 3.6                   | 0.0            | 50.7            | 49.2            | 73.9                    | 23.2        | 24.7        |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b>    |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 2  | 15540.0          | 50.5          | 45.7          | 38.3                     | 31.6                 | 7.2                   | 0.6            | 55.5            | 50.7            | 73.9                    | 18.4        | 23.2        |
| 3  | 20720.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 73.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 4  | Above<br>26500.0 | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 73.9                    | -           | -           |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |                 | Limit<br>AV<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-----------------|-----------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dBuV/m] | VER<br>[dBuV/m] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 1  | 5150.0           | 32.8          | 30.8          | 31.4                     | 30.9                 | 3.6                   | 0.0            | 36.9            | 34.9            | 53.9                    | 17.0        | 19.0        |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b>    |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 2  | 15540.0          | 36.2          | 32.7          | 38.3                     | 31.6                 | 7.2                   | 0.6            | 41.2            | 37.7            | 53.9                    | 12.7        | 16.2        |
| 3  | 20720.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 53.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 4  | Above<br>26500.0 | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 53.9                    | -           | -           |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Restricted band)**

**11n(20HT) Tx Lower Band/Mch(5200MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3**

UL Japan, Inc.

Company : silex technology, Inc.  
Equipment : MiniPCI Wireless LAN Board  
Model : SX-10WAN  
S/N : 008092011314  
Power : DC 3.3V (PC input AC 120V / 60Hz)  
Mode : 11n(20HT), Tx, 5200MHz,  
130Mbps, Ant 1, 2, 3  
EUT-Axis : (Worst) H: Y-axis, V: Y-axis  
Ant-Axis : (Worst) H: X0-axis, V: X90-axis

Head Office EMC Lab. No.4 Anechoic Chamber  
Regulation : FCC Part15 Subpart C 15.209 / RSS-210 A9.3  
Test Distance : 3m / 1m / 0.5m  
Date : 05/27, 2008  
Temperature : 23 deg.C.  
Humidity : 53 %  
Engineer : Takahiro Hatakeda

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |                 | Limit<br>PK<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-----------------|-----------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dBuV/m] | VER<br>[dBuV/m] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 1  | Below<br>10000.0 | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 73.9                    | -           | -           |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 2  | 15600.0          | 48.2          | 45.1          | 38.1                     | 31.6                 | 7.1                   | 0.7            | 53.0            | 49.9            | 73.9                    | 20.9        | 24.0        |
| 3  | 20800.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 73.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 4  | 31200.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 73.9                    | -           | -           |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |                 | Limit<br>AV<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-----------------|-----------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dBuV/m] | VER<br>[dBuV/m] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 1  | Below<br>10000.0 | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 53.9                    | -           | -           |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 2  | 15600.0          | 34.7          | 32.2          | 38.1                     | 31.6                 | 7.1                   | 0.7            | 39.5            | 37.0            | 53.9                    | 14.4        | 16.9        |
| 3  | 20800.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 53.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 4  | 31200.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 53.9                    | -           | -           |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

- \* Except for the above table : All other spurious emissions were less than 20dB for the limit.
- \* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
- \*The limit is rounded down to one decimal place.
- \*The test result is round off to one or two decimal places, so some differences might be observed.
- \* NS: No detect signal.



**Radiated Spurious Emission (above 1GHz:Restricted band)**

**11n(20HT) Tx Lower Band/Hch(5240MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

Company : silex technology, Inc.  
Equipment : MiniPCI Wireless LAN Board  
Model : SX-10WAN  
S/N : 008092011314  
Power : DC 3.3V (PC input AC 120V / 60Hz)  
Mode : 11n(20HT), Tx, 5240MHz,  
130Mbps, Ant 1, 2, 3

Regulation : FCC Part15 Subpart C 15.209 / RSS-210 A9.3  
Test Distance : 3m / 1m / 0.5m  
Date : 05/27, 2008  
Temperature : 23 deg.C.  
Humidity : 53 %  
Engineer : Takahiro Hatakeda

EUT-Axis : (Worst) H: Y-axis, V: Y-axis  
Ant-Axis : (Worst) H: X0-axis, V: X90-axis

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result      |             | Limit<br>PK<br>[dBuV/m] | Margin |      |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-------------|-------------|-------------------------|--------|------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dB] | VER<br>[dB] |                         |        |      |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |             |             |                         |        |      |
| 1  | Below<br>10000.0 | NS            | NS            | -                        | -                    | -                     | -              | -           | -           | 73.9                    | -      | -    |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |               |                          |                      |                       |                |             |             |                         |        |      |
| 2  | 15720.0          | 48.4          | 46.3          | 37.7                     | 31.5                 | 7.2                   | 0.6            | 52.9        | 50.8        | 73.9                    | 21.0   | 23.1 |
| 3  | 20960.0          | NS            | NS            | -                        | -                    | -                     | -              | -           | -           | 73.9                    | -      | -    |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |             |             |                         |        |      |
| 4  | 31440.0          | NS            | NS            | -                        | -                    | -                     | -              | -           | -           | 73.9                    | -      | -    |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result      |             | Limit<br>AV<br>[dBuV/m] | Margin |      |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-------------|-------------|-------------------------|--------|------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dB] | VER<br>[dB] |                         |        |      |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |             |             |                         |        |      |
| 1  | Below<br>10000.0 | NS            | NS            | -                        | -                    | -                     | -              | -           | -           | 53.9                    | -      | -    |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |               |                          |                      |                       |                |             |             |                         |        |      |
| 2  | 15720.0          | 34.5          | 32.6          | 37.7                     | 31.5                 | 7.2                   | 0.6            | 39.0        | 37.1        | 53.9                    | 14.9   | 16.8 |
| 3  | 20960.0          | NS            | NS            | -                        | -                    | -                     | -              | -           | -           | 53.9                    | -      | -    |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |             |             |                         |        |      |
| 4  | 31440.0          | NS            | NS            | -                        | -                    | -                     | -              | -           | -           | 53.9                    | -      | -    |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Restricted band)**

**11n(20HT) Tx Middle Band/Lch(5260MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2 +3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |   |               |  |
|-----------|---|---------------|--|
| Company   | silex technology, Inc.                          | Regulation    | FCC Part15 Subpart C 15.209 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board                      | Test Distance | 3m / 1m / 0.5m                             |
| Model     | SX-10WAN  | Date          | 05/27, 2008                                |
| S/N       | 008092011314                                    | Temperature   | 23 deg.C.                                  |
| Power     | DC 3.3V (PC input AC 120V / 60Hz)               | Humidity      | 53 %                                       |
| Mode      | 11n(20HT), Tx, 5260MHz,<br>130Mbps, Ant 1, 2, 3 | Engineer      | Takahiro Hatakeda                          |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis                    |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis                 |               |  |

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result |      | Limit<br>PK<br>[dBuV/m] | Margin |      |
|--|------------------|---------------|------|--------------------------|----------------------|-----------------------|----------------|--------|------|-------------------------|--------|------|
|  |                  | HOR<br>[dBuV] | VER  |                          |                      |                       |                | HOR    | VER  |                         | HOR    | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |      |                          |                      |                       |                |        |      |                         |        |      |
| 1  | Below<br>10000.0 | NS            | NS   | -                        | -                    | -                     | -              | -      | -    | 73.9                    | -      | -    |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |      |                          |                      |                       |                |        |      |                         |        |      |
| 2  | 15780.0          | 46.1          | 45.8 | 37.5                     | 31.5                 | 7.2                   | 0.6            | 50.4   | 50.1 | 73.9                    | 23.5   | 23.8 |
| 3  | 21040.0          | NS            | NS   | -                        | -                    | -                     | -              | -      | -    | 73.9                    | -      | -    |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |      |                          |                      |                       |                |        |      |                         |        |      |
| 4  | 31560.0          | NS            | NS   | -                        | -                    | -                     | -              | -      | -    | 73.9                    | -      | -    |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result |      | Limit<br>AV<br>[dBuV/m] | Margin |      |
|--|------------------|---------------|------|--------------------------|----------------------|-----------------------|----------------|--------|------|-------------------------|--------|------|
|  |                  | HOR<br>[dBuV] | VER  |                          |                      |                       |                | HOR    | VER  |                         | HOR    | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |      |                          |                      |                       |                |        |      |                         |        |      |
| 1  | Below<br>10000.0 | NS            | NS   | -                        | -                    | -                     | -              | -      | -    | 53.9                    | -      | -    |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |      |                          |                      |                       |                |        |      |                         |        |      |
| 2  | 15780.0          | 33.9          | 32.6 | 37.5                     | 31.5                 | 7.2                   | 0.6            | 38.2   | 36.9 | 53.9                    | 15.7   | 17.0 |
| 3  | 21040.0          | NS            | NS   | -                        | -                    | -                     | -              | -      | -    | 53.9                    | -      | -    |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |      |                          |                      |                       |                |        |      |                         |        |      |
| 4  | 31560.0          | NS            | NS   | -                        | -                    | -                     | -              | -      | -    | 53.9                    | -      | -    |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Restricted band)**

**11n(20HT) Tx Middle Band/Mch(5280MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2+ 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |   |               |  |
|-----------|---|---------------|--|
| Company   | silex technology, Inc.                          | Regulation    | FCC Part15 Subpart C 15.209 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board                      | Test Distance | 3m / 1m / 0.5m                             |
| Model     | SX-10WAN  | Date          | 05/27, 2008                                |
| S/N       | 008092011314                                    | Temperature   | 23 deg.C.                                  |
| Power     | DC 3.3V (PC input AC 120V / 60Hz)               | Humidity      | 53 %                                       |
| Mode      | 11n(20HT), Tx, 5280MHz,<br>130Mbps, Ant 1, 2, 3 | Engineer      | Takahiro Hatakeda                          |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis                    |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis                 |               |  |

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |                 | Limit<br>PK<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-----------------|-----------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dBuV/m] | VER<br>[dBuV/m] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 1  | Below<br>10000.0 | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 73.9                    | -           | -           |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 2  | 15840.0          | 46.7          | 45.6          | 37.3                     | 31.5                 | 7.3                   | 0.6            | 50.9            | 49.8            | 73.9                    | 23.0        | 24.1        |
| 3  | 21120.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 73.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 4  | 31800.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 73.9                    | -           | -           |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |                 | Limit<br>AV<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-----------------|-----------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dBuV/m] | VER<br>[dBuV/m] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 1  | Below<br>10000.0 | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 53.9                    | -           | -           |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 2  | 15840.0          | 33.1          | 31.9          | 37.3                     | 31.5                 | 7.3                   | 0.6            | 37.3            | 36.1            | 53.9                    | 16.6        | 17.8        |
| 3  | 21120.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 53.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 4  | 31800.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 53.9                    | -           | -           |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Restricted band)**  
**11n(20HT) Tx Middle Band/Hch(5320MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2 +3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

Company : silex technology, Inc.  
Equipment : MiniPCI Wireless LAN Board  
Model : SX-10WAN  
S/N : 008092011314  
Power : DC 3.3V (PC input AC 120V / 60Hz)  
Mode : 11n(20HT), Tx, 5320MHz,  
130Mbps, Ant 1, 2, 3

Regulation : FCC Part15 Subpart C 15.209 / RSS-210 A9.3  
Test Distance : 3m / 1m / 0.5m  
Date : 05/27, 2008  
Temperature : 23 deg.C.  
Humidity : 53 %  
Engineer : Takahiro Hatakeda

EUT-Axis : (Worst) H: Y-axis, V: Y-axis  
Ant-Axis : (Worst) H: X0-axis, V: X90-axis

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Atten. or<br>Filter<br>[dB] | Result      |             | Limit<br>PK<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|-----------------------------|-------------|-------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                             | HOR<br>[dB] | VER<br>[dB] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                             |             |             |                         |             |             |
| 1  | 5350.0           | 46.0          | 47.0          | 31.5                     | 30.9                 | 3.7                   | 0.0                         | 50.3        | 51.3        | 73.9                    | 23.6        | 22.6        |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |               |                          |                      |                       |                             |             |             |                         |             |             |
| 2  | 10640.0          | 44.0          | 44.1          | 39.4                     | 32.8                 | 6.1                   | 0.5                         | 47.7        | 47.8        | 73.9                    | 26.2        | 26.1        |
| 3  | 15960.0          | 45.8          | 44.0          | 36.9                     | 31.5                 | 7.3                   | 0.6                         | 49.6        | 47.8        | 73.9                    | 24.3        | 26.1        |
| 4  | 21280.0          | NS            | NS            | -                        | -                    | -                     | -                           | -           | -           | 73.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                             |             |             |                         |             |             |
| 5  | Above<br>26500.0 | NS            | NS            | -                        | -                    | -                     | -                           | -           | -           | 73.9                    | -           | -           |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Atten. or<br>Filter<br>[dB] | Result      |             | Limit<br>AV<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|-----------------------------|-------------|-------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                             | HOR<br>[dB] | VER<br>[dB] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                             |             |             |                         |             |             |
| 1  | 5350.0           | 31.5          | 32.2          | 31.5                     | 30.9                 | 3.7                   | 0.0                         | 35.8        | 36.5        | 53.9                    | 18.1        | 17.4        |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |               |                          |                      |                       |                             |             |             |                         |             |             |
| 2  | 10640.0          | 31.3          | 31.5          | 39.4                     | 32.8                 | 6.1                   | 0.5                         | 35.0        | 35.2        | 53.9                    | 18.9        | 18.7        |
| 3  | 15960.0          | 32.6          | 31.6          | 36.9                     | 31.5                 | 7.3                   | 0.6                         | 36.4        | 35.4        | 53.9                    | 17.5        | 18.5        |
| 4  | 21280.0          | NS            | NS            | -                        | -                    | -                     | -                           | -           | -           | 53.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                             |             |             |                         |             |             |
| 5  | Above<br>26500.0 | NS            | NS            | -                        | -                    | -                     | -                           | -           | -           | 53.9                    | -           | -           |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Restricted band)**  
**11n(40HT) Tx Lower Band/Lch(5190MHz), 270Mbps, Used Antenna for Tx: Antenna 1 + 2+ 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

Company : silex technology, Inc.  
Equipment : MiniPCI Wireless LAN Board  
Model : SX-10WAN  
S/N : 008092011314  
Power : DC 3.3V (PC input AC 120V / 60Hz)  
Mode : 11n(40HT), Tx, 5190MHz,  
270Mbps, Ant 1, 2, 3

Regulation : FCC Part15 Subpart C 15.209 / RSS-210 A9.3  
Test Distance : 3m / 1m / 0.5m  
Date : 05/27, 2008  
Temperature : 23 deg.C.  
Humidity : 53 %  
Engineer : Takahiro Hatakeda

EUT-Axis : (Worst) H: Y-axis, V: Y-axis  
Ant-Axis : (Worst) H: X0-axis, V: X90-axis

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |                 | Limit<br>PK<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-----------------|-----------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dBuV/m] | VER<br>[dBuV/m] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 1  | 5150.0           | 58.6          | 59.1          | 31.4                     | 30.9                 | 3.6                   | 0.0            | 62.7            | 63.2            | 73.9                    | 11.2        | 10.7        |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b>    |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 2  | 15570.0          | 44.1          | 44.0          | 38.2                     | 31.6                 | 7.2                   | 0.6            | 49.0            | 48.9            | 73.9                    | 24.9        | 25.0        |
| 3  | 20760.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 73.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 4  | Above<br>26500.0 | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 73.9                    | -           | -           |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |               | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |                 | Limit<br>AV<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|---------------|--------------------------|----------------------|-----------------------|----------------|-----------------|-----------------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER<br>[dBuV] |                          |                      |                       |                | HOR<br>[dBuV/m] | VER<br>[dBuV/m] |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 1  | 5150.0           | 44.7          | 44.1          | 31.4                     | 30.9                 | 3.6                   | 0.0            | 48.8            | 48.2            | 53.9                    | 5.1         | 5.7         |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b>    |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 2  | 15570.0          | 31.4          | 31.4          | 38.2                     | 31.6                 | 7.2                   | 0.6            | 36.3            | 36.3            | 53.9                    | 17.6        | 17.6        |
| 3  | 20760.0          | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 53.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |               |                          |                      |                       |                |                 |                 |                         |             |             |
| 4  | Above<br>26500.0 | NS            | NS            | -                        | -                    | -                     | -              | -               | -               | 53.9                    | -           | -           |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

- \* Except for the above table : All other spurious emissions were less than 20dB for the limit.
- \* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
- \*The limit is rounded down to one decimal place.
- \*The test result is round off to one or two decimal places, so some differences might be observed.
- \* NS: No detect signal.

**Radiated Spurious Emission (above 1GHz:Restricted band)**  
**11n(40HT) Tx Lower Band/Hch(5230MHz), 270Mbps, Used Antenna for Tx: Antenna 1 + 2+ 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |   |               |  |
|-----------|---|---------------|--|
| Company   | silex technology, Inc.                          | Regulation    | FCC Part15 Subpart C 15.209 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board                      | Test Distance | 3m / 1m / 0.5m                             |
| Model     | SX-10WAN  | Date          | 05/28, 2008      05/29, 2008               |
| S/N       | 008092011314                                    | Temperature   | 22 deg.C.      23 deg.C.                   |
| Power     | DC 3.3V (PC input AC 120V / 60Hz)               | Humidity      | 71 %      60 %                             |
| Mode      | 11n(40HT), Tx, 5230MHz,<br>270Mbps, Ant 1, 2, 3 | Engineer      | Takayuki Shimada    Takahiro Hatakeda      |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis                    |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis                 |               |  |

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |      | Limit<br>PK<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|------|--------------------------|----------------------|-----------------------|----------------|-----------------|------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER  |                          |                      |                       |                | HOR<br>[dBuV/m] | VER  |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |      |                          |                      |                       |                |                 |      |                         |             |             |
| 1  | Below<br>10000.0 | NS            | NS   | -                        | -                    | -                     | -              | -               | -    | 73.9                    | -           | -           |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b>    |                  |               |      |                          |                      |                       |                |                 |      |                         |             |             |
| 2  | 15690.0          | 40.9          | 41.4 | 37.7                     | 31.5                 | 7.2                   | 0.6            | 45.4            | 45.9 | 73.9                    | 28.5        | 28.0        |
| 3  | 20920.0          | NS            | NS   | -                        | -                    | -                     | -              | -               | -    | 73.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |      |                          |                      |                       |                |                 |      |                         |             |             |
| 4  | 31440.0          | NS            | NS   | -                        | -                    | -                     | -              | -               | -    | 73.9                    | -           | -           |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |      | Limit<br>AV<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|------|--------------------------|----------------------|-----------------------|----------------|-----------------|------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER  |                          |                      |                       |                | HOR<br>[dBuV/m] | VER  |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |      |                          |                      |                       |                |                 |      |                         |             |             |
| 1  | Below<br>10000.0 | NS            | NS   | -                        | -                    | -                     | -              | -               | -    | 53.9                    | -           | -           |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |      |                          |                      |                       |                |                 |      |                         |             |             |
| 2  | 15690.0          | 28.1          | 28.0 | 37.7                     | 31.5                 | 7.2                   | 0.6            | 32.6            | 32.5 | 53.9                    | 21.3        | 21.4        |
| 3  | 20920.0          | NS            | NS   | -                        | -                    | -                     | -              | -               | -    | 53.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |      |                          |                      |                       |                |                 |      |                         |             |             |
| 4  | 31440.0          | NS            | NS   | -                        | -                    | -                     | -              | -               | -    | 53.9                    | -           | -           |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Restricted band)**  
**11n(40HT) Tx Middle Band/Lch(5270MHz), 270Mbps, Used Antenna for Tx: Antenna 1 + 2+ 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |   |               |  |
|-----------|---|---------------|--|
| Company   | silex technology, Inc.                          | Regulation    | FCC Part15 Subpart C 15.209 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board                      | Test Distance | 3m / 1m / 0.5m                             |
| Model     | SX-10WAN  | Date          | 05/28, 2008      05/29, 2008               |
| S/N       | 008092011314                                    | Temperature   | 22 deg.C.      23 deg.C.                   |
| Power     | DC 3.3V (PC input AC 120V / 60Hz)               | Humidity      | 71 %      60 %                             |
| Mode      | 11n(40HT), Tx, 5270MHz,<br>270Mbps, Ant 1, 2, 3 | Engineer      | Takayuki Shimada    Takahiro Hatakeda      |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis                    |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis                 |               |  |

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |      | Limit<br>PK<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|------|--------------------------|----------------------|-----------------------|----------------|-----------------|------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER  |                          |                      |                       |                | HOR<br>[dBuV/m] | VER  |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |      |                          |                      |                       |                |                 |      |                         |             |             |
| 1  | Below<br>10000.0 | NS            | NS   | -                        | -                    | -                     | -              | -               | -    | 73.9                    | -           | -           |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |      |                          |                      |                       |                |                 |      |                         |             |             |
| 2  | 15810.0          | 43.3          | 43.1 | 37.5                     | 31.5                 | 7.2                   | 0.6            | 47.6            | 47.4 | 73.9                    | 26.3        | 26.5        |
| 3  | 21080.0          | NS            | NS   | -                        | -                    | -                     | -              | -               | -    | 73.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |      |                          |                      |                       |                |                 |      |                         |             |             |
| 4  | 31560.0          | NS            | NS   | -                        | -                    | -                     | -              | -               | -    | 73.9                    | -           | -           |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result          |      | Limit<br>AV<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|------|--------------------------|----------------------|-----------------------|----------------|-----------------|------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER  |                          |                      |                       |                | HOR<br>[dBuV/m] | VER  |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |      |                          |                      |                       |                |                 |      |                         |             |             |
| 1  | Below<br>10000.0 | NS            | NS   | -                        | -                    | -                     | -              | -               | -    | 53.9                    | -           | -           |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |      |                          |                      |                       |                |                 |      |                         |             |             |
| 2  | 15810.0          | 30.3          | 30.4 | 37.5                     | 31.5                 | 7.2                   | 0.6            | 34.6            | 34.7 | 53.9                    | 19.3        | 19.2        |
| 3  | 21080.0          | NS            | NS   | -                        | -                    | -                     | -              | -               | -    | 53.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |      |                          |                      |                       |                |                 |      |                         |             |             |
| 4  | 31560.0          | NS            | NS   | -                        | -                    | -                     | -              | -               | -    | 53.9                    | -           | -           |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Restricted band)**  
**11n(40HT) Tx Middle Band/Hch(5310MHz), 270Mbps, Used Antenna for Tx: Antenna 1 + 2+ 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber  
Regulation FCC Part15 Subpart C 15.209 / RSS-210 A9.3  
Test Distance 3m / 1m / 0.5m  
Date 05/28, 2008 05/29, 2008  
Temperature 22 deg.C. 23 deg.C.  
Humidity 71 % 60 %  
Engineer Takayuki Shimada Takahiro Hatakeda

Company silex technology, Inc.  
Equipment MiniPCI Wireless LAN Board  
Model SX-10WAN  
S/N 008092011314  
Power DC 3.3V (PC input AC 120V / 60Hz)  
Mode 11n(40HT), Tx, 5310MHz,  
270Mbps, Ant 1, 2, 3  
EUT-Axis (Worst) H: Y-axis, V: Y-axis  
Ant-Axis (Worst) H: X0-axis, V: X90-axis

**PK DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Atten. or<br>Filter<br>[dB] | Result          |      | Limit<br>PK<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|------|--------------------------|----------------------|-----------------------|-----------------------------|-----------------|------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER  |                          |                      |                       |                             | HOR<br>[dBuV/m] | VER  |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |      |                          |                      |                       |                             |                 |      |                         |             |             |
| 1  | 5350.0           | 60.3          | 56.5 | 31.5                     | 30.9                 | 3.7                   | 0.0                         | 64.6            | 60.8 | 73.9                    | 9.3         | 13.1        |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |      |                          |                      |                       |                             |                 |      |                         |             |             |
| 2  | 10620.0          | 43.3          | 43.0 | 39.4                     | 32.8                 | 6.1                   | 0.5                         | 47.0            | 46.7 | 73.9                    | 26.9        | 27.2        |
| 3  | 15930.0          | 43.0          | 43.1 | 37.0                     | 31.5                 | 7.3                   | 0.6                         | 46.9            | 47.0 | 73.9                    | 27.0        | 26.9        |
| 4  | 21240.0          | NS            | NS   | -                        | -                    | -                     | -                           | -               | -    | 73.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |      |                          |                      |                       |                             |                 |      |                         |             |             |
| 5  | Above<br>26500.0 | NS            | NS   | -                        | -                    | -                     | -                           | -               | -    | 73.9                    | -           | -           |

**AV DETECT**

| No.  | Freq.<br>[MHz]   | Reading       |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Atten. or<br>Filter<br>[dB] | Result          |      | Limit<br>AV<br>[dBuV/m] | Margin      |             |
|--|------------------|---------------|------|--------------------------|----------------------|-----------------------|-----------------------------|-----------------|------|-------------------------|-------------|-------------|
|  |                  | HOR<br>[dBuV] | VER  |                          |                      |                       |                             | HOR<br>[dBuV/m] | VER  |                         | HOR<br>[dB] | VER<br>[dB] |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>                |                  |               |      |                          |                      |                       |                             |                 |      |                         |             |             |
| 1  | 5350.0           | 44.4          | 41.6 | 31.5                     | 30.9                 | 3.7                   | 0.0                         | 48.7            | 45.9 | 53.9                    | 5.2         | 8.0         |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                  |               |      |                          |                      |                       |                             |                 |      |                         |             |             |
| 2  | 10620.0          | 29.7          | 29.6 | 39.4                     | 32.8                 | 6.1                   | 0.5                         | 33.4            | 33.3 | 53.9                    | 20.5        | 20.6        |
| 3  | 15930.0          | 30.2          | 30.2 | 37.0                     | 31.5                 | 7.3                   | 0.6                         | 34.1            | 34.1 | 53.9                    | 19.8        | 19.8        |
| 4  | 21240.0          | NS            | NS   | -                        | -                    | -                     | -                           | -               | -    | 53.9                    | -           | -           |
| <b>Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                  |               |      |                          |                      |                       |                             |                 |      |                         |             |             |
| 5  | Above<br>26500.0 | NS            | NS   | -                        | -                    | -                     | -                           | -               | -    | 53.9                    | -           | -           |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

- \* Except for the above table : All other spurious emissions were less than 20dB for the limit.
- \* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
- \*The limit is rounded down to one decimal place.
- \*The test result is round off to one or two decimal places, so some differences might be observed.
- \* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

**\*used conversion formula**

**11a Tx Lower Band/Lch( 5180MHz), 54Mbps, Used Antenna for Tx: Antenna 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|              |                                   |               |  |
|--------------|-----------------------------------|---------------|--|
| Company      | silex technology, Inc.            | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3 |
| Equipment    | MiniPCI Wireless LAN Board        | Test Distance | 1m / 0.5m                                  |
| Model        | SX-10WAN                          | Date          | 05/16, 2008 05/18, 2008                    |
| S/N          | 008092011317                      | Temperature   | 22 deg.C. 24 deg.C.                        |
| Power        | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 47 % 45 %                                  |
| Mode         | WLAN 11a, Tx, 5180MHz, 54Mbps,    | Engineer      | Kazufumi Nakai Hisayoshi Sato              |
|              | Ant3                              |               |  |
| Module axis  | Hor Y , Ver Y-axis                |               |  |
| Antenna axis | Hor X 0deg , Ver X 90deg          |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |      |
|---|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|------|
|   |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER  |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 1   | 10360.00       | 41.3                  | 41.5 | 39.1                        | 32.6                 | 6.1                   | 0.5                           | 44.9                                | 45.1 | -50.3                  | -50.1 | -27.0         | 23.3           | 23.1 |
| 2   | 25900.00       | 46.8                  | 47.1 | 39.1                        | 30.1                 | 8.8                   | 0.0                           | 55.1                                | 55.4 | -40.1                  | -39.8 | -27.0         | 13.1           | 12.8 |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 3   | 31080.00       | 34.4                  | 33.8 | 40.1                        | 25.1                 | 6.4                   | 0.0                           | 40.3                                | 39.7 | -54.9                  | -55.5 | -27.0         | 27.9           | 28.5 |
| 4   | 36260.00       | 44.6                  | 44.1 | 44.7                        | 23.6                 | 7.7                   | 0.0                           | 57.9                                | 57.4 | -37.3                  | -37.8 | -27.0         | 10.3           | 10.8 |

Result(EIRP[dBm])=10\*LOG((10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 ) / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The test result is round off to one or two decimal places, so some differences might be observed.

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**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

**\*used conversion formula**

**11a Tx Lower Band/Mch( 5200MHz), 54Mbps, Used Antenna for Tx: Antenna 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|              |  |               |  |
|--------------|--|---------------|--|
| Company      | silex technology, Inc.                 | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3 |
| Equipment    | MiniPCI Wireless LAN Board             | Test Distance | 1m / 0.5m                                  |
| Model        | SX-10WAN                               | Date          | 05/16, 2008 05/18, 2008                    |
| S/N          | 008092011317                           | Temperature   | 22 deg.C. 24 deg.C.                        |
| Power        | DC 3.3V (PC input AC 120V / 60Hz)      | Humidity      | 47 % 45 %                                  |
| Mode         | WLAN 11a, Tx, 5200MHz, 54Mbps,<br>Ant3 | Engineer      | Kazufumi Nakai Hisayoshi Sato              |
| Module axis  | Hor Y , Ver Y-axis                     |               |  |
| Antenna axis | Hor X 0deg , Ver X 90deg               |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |      |
|---|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|------|
|   |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER  |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 1   | 10400.00       | 40.8                  | 41.0 | 39.1                        | 32.6                 | 6.1                   | 0.5                           | 44.4                                | 44.6 | -50.8                  | -50.6 | -27.0         | 23.8           | 23.6 |
| 2   | 26000.00       | 46.4                  | 46.5 | 39.1                        | 30.0                 | 8.9                   | 0.0                           | 54.9                                | 55.0 | -40.3                  | -40.2 | -27.0         | 13.3           | 13.2 |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 3   | 36400.00       | 44.9                  | 44.0 | 41.2                        | 24.5                 | 6.5                   | 0.0                           | 52.6                                | 51.7 | -42.6                  | -43.5 | -27.0         | 15.6           | 16.5 |

Result(EIRP[dBm])=10\*LOG(( ( 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 } / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The test result is round off to one or two decimal places, so some differences might be observed.

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**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

**\*used conversion formula**

**11a Tx Lower Band/Hch(5240MHz), 54Mbps, Used Antenna for Tx: Antenna 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|              |  |               |  |
|--------------|--|---------------|--|
| Company      | silex technology, Inc.                 | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3 |
| Equipment    | MiniPCI Wireless LAN Board             | Test Distance | 1m / 0.5m                                  |
| Model        | SX-10WAN                               | Date          | 05/16, 2008                                |
| S/N          | 008092011317                           | Temperature   | 22 deg.C. 24 deg.C.                        |
| Power        | DC 3.3V (PC input AC 120V / 60Hz)      | Humidity      | 47 % 45 %                                  |
| Mode         | WLAN 11a, Tx, 5240MHz, 54Mbps,<br>Ant3 | Engineer      | Kazufumi Nakai Hisayoshi Sato              |
| Module axis  | Hor Y , Ver Y-axis                     |               |  |
| Antenna axis | Hor X 0deg , Ver X 90deg               |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Limit<br>[dBm] | Margin<br>[dB] |      |
|---|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|----------------|----------------|------|
|   |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |                | HOR            | VER  |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |                |                |      |
| 1   | 10480.00       | 40.4                  | 40.8 | 39.3                        | 32.7                 | 6.1                   | 0.5                           | 44.1                                | 44.5 | -51.1                  | -50.7 | -27.0          | 24.1           | 23.7 |
| 2   | 26200.00       | 45.4                  | 45.2 | 39.1                        | 29.8                 | 8.8                   | 0.0                           | 54.0                                | 53.8 | -41.2                  | -41.4 | -27.0          | 14.2           | 14.4 |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |                |                |      |
| 3   | 36680.00       | 44.5                  | 44.9 | 41.2                        | 24.4                 | 6.3                   | 0.0                           | 52.1                                | 52.5 | -43.1                  | -42.7 | -27.0          | 16.1           | 15.7 |

Result(EIRP[dBm])=10\*LOG((10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 ) / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The test result is round off to one or two decimal places, so some differences might be observed.

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**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

**\*used conversion formula**

**11a Tx Middle Band/Hch(5260MHz), 54Mbps, Used Antenna for Tx: Antenna 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|              |  |               |  |
|--------------|--|---------------|--|
| Company      | silex technology, Inc.                 | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3 |
| Equipment    | MiniPCI Wireless LAN Board             | Test Distance | 1m / 0.5m                                  |
| Model        | SX-10WAN                               | Date          | 05/16, 2008                                |
| S/N          | 008092011317                           | Temperature   | 22 deg.C. 24 deg.C.                        |
| Power        | DC 3.3V (PC input AC 120V / 60Hz)      | Humidity      | 47 % 45 %                                  |
| Mode         | WLAN 11a, Tx, 5260MHz, 54Mbps,<br>Ant3 | Engineer      | Kazufumi Nakai Hisayoshi Sato              |
| Module axis  | Hor Y , Ver Y-axis                     |               |  |
| Antenna axis | Hor X 0deg , Ver X 90deg               |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |      |
|---|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|------|
|   |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER  |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 1   | 10520.00       | 40.9                  | 41.3 | 39.3                        | 32.7                 | 6.1                   | 0.5                           | 44.6                                | 45.0 | -50.6                  | -50.2 | -27.0         | 23.6           | 23.2 |
| 2   | 26300.00       | 46.0                  | 45.8 | 39.2                        | 29.7                 | 8.8                   | 0.0                           | 54.8                                | 54.6 | -40.4                  | -40.6 | -27.0         | 13.4           | 13.6 |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 3   | 36820.00       | 44.0                  | 44.9 | 41.2                        | 24.2                 | 6.3                   | 0.0                           | 51.8                                | 52.7 | -43.4                  | -42.5 | -27.0         | 16.4           | 15.5 |

Result(EIRP[dBm])=10\*LOG((10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 ) / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The test result is round off to one or two decimal places, so some differences might be observed.

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**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**  
**\*used conversion formula**

**11a Tx Middle Band/Mch(5280MHz), 54Mbps, Used Antenna for Tx: Antenna 3**  
UL Japan, Inc.

|              |                                   |               |  |
|--------------|-----------------------------------|---------------|--|
| Company      | silex technology, Inc.            | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3 |
| Equipment    | MiniPCI Wireless LAN Board        | Test Distance | 1m / 0.5m                                  |
| Model        | SX-10WAN                          | Date          | 05/16, 2008                                |
| S/N          | 008092011317                      | Temperature   | 22 deg.C.                                  |
| Power        | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 47 %                                       |
| Mode         | WLAN 11a, Tx, 5280MHz, 54Mbps,    | Engineer      | Kazufumi Nakai                             |
|              | Ant3                              |               | Hisayoshi Sato                             |
| Module axis  | Hor Y , Ver Y-axis                |               |  |
| Antenna axis | Hor X 0deg , Ver X 90deg          |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |      |
|---|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|------|
|   |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER  |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 1   | 10560.00       | 40.7                  | 40.5 | 39.4                        | 32.7                 | 6.1                   | 0.5                           | 44.5                                | 44.3 | -50.7                  | -50.9 | -27.0         | 23.7           | 23.9 |
| 2   | 26400.00       | 46.7                  | 46.4 | 39.2                        | 29.6                 | 8.8                   | 0.0                           | 55.6                                | 55.3 | -39.6                  | -39.9 | -27.0         | 12.6           | 12.9 |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 3   | 36960.00       | 43.8                  | 43.8 | 41.2                        | 24.2                 | 6.3                   | 0.0                           | 51.6                                | 51.6 | -43.6                  | -43.6 | -27.0         | 16.6           | 16.6 |

Result(EIRP[dBm])=10\*LOG(( ( 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 ) / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.  
\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.  
\*The test result is round off to one or two decimal places, so some differences might be observed.

**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

**\*used conversion formula**

**11a Tx Middle Band/Hch(5320MHz), 54Mbps, Used Antenna for Tx: Antenna 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|              |                                   |               |  |
|--------------|-----------------------------------|---------------|--|
| Company      | silex technology, Inc.            | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3 |
| Equipment    | MiniPCI Wireless LAN Board        | Test Distance | 0.5m                                       |
| Model        | SX-10WAN                          | Date          | 05/18, 2008                                |
| S/N          | 008092011317                      | Temperature   | 24 deg.C.                                  |
| Power        | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 45 %                                       |
| Mode         | WLAN 11a, Tx, 5320MHz, 54Mbps,    | Engineer      | Hisayoshi Sato                             |
|              | Ant3                              |               |  |
| Module axis  | Hor Y , Ver Y-axis                |               |  |
| Antenna axis | Hor X 0deg , Ver X 90deg          |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |             |
|---|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|-------------|
|   |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER         |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |             |
| 1   | 26600.00       | 32.9                  | 32.2 | 39.3                        | 24.3                 | 5.7                   | 0.0                           | 38.1                                | 37.4 | -57.1                  | -57.8 | -27.0         | 30.1           | 30.8        |
| 2   | 31920.00       | 36.3                  | 37.6 | 40.3                        | 25.4                 | 6.4                   | 0.0                           | 42.1                                | 43.4 | -53.1                  | -51.8 | -27.0         | 26.1           | 24.8        |
| 3   | 37240.00       | 44.2                  | 44.8 | 41.5                        | 24.0                 | 6.4                   | 0.0                           | 52.6                                | 53.2 | -42.6                  | -42.0 | -27.0         | 15.6           | <b>15.0</b> |

Result(EIRP[dBm])=10\*LOG(( ( 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 ) / 30) \*10^3)

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The test result is round off to one or two decimal places, so some differences might be observed.

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**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

**\*used conversion formula**

**11n(20HT) Tx Lower Band/Lch(5180MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                   |               |   |
|-----------|-----------------------------------|---------------|---|
| Company   | silex technology, Inc.            | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3                      |
| Equipment | MiniPCI Wireless LAN Board        | Test Distance | 1m / 0.5m   |
| Model     | SX-10WAN                          | Date          | 05/29, 2008      05/29, 2008      05/30, 2008                   |
| S/N       | 008092011314                      | Temperature   | 22deg.C.      23deg.C.      25deg.C.                            |
| Power     | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 74 %      60%      59 %   |
| Mode      | 11n(20HT), Tx, 5180MHz,           | Engineer      | Takahiro      Takahiro Hatakeda      Takahiro Hatakeda          |
|           | 130Mbps, Ant 1, 2, 3              |               | Hatakeda      (10G-18GHz)      (18G-26.5GHz)      (26.5G-40GHz) |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis      |               |   |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis   |               |   |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq. [MHz] | S/A Reading [dBuV] |      | Antenna Factor [dB/m] | Amp. Gain [dB] | Cable Loss [dB] | ATT or Filter Loss [dB] | Electric Field Strength [dBuV/m] |      | Result (EIRP) [dBm] |       | Lmit [dBm] | Margin [dB] |      |
|---|-------------|--------------------|------|-----------------------|----------------|-----------------|-------------------------|----------------------------------|------|---------------------|-------|------------|-------------|------|
|   |             | HOR                | VER  |                       |                |                 |                         | HOR                              | VER  | HOR                 | VER   |            | HOR         | VER  |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |             |                    |      |                       |                |                 |                         |                                  |      |                     |       |            |             |      |
| 1   | 10360.00    | 44.4               | 42.4 | 39.1                  | 32.6           | 6.0             | 0.6                     | 48.0                             | 46.0 | -47.2               | -49.2 | -27.0      | 20.2        | 22.2 |
| 2   | 25900.00    | NS                 | NS   | -                     | -              | -               | -                       | -                                | -    | -                   | -     | -27.0      | -           | -    |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |             |                    |      |                       |                |                 |                         |                                  |      |                     |       |            |             |      |
| 3   | 31080.00    | NS                 | NS   | -                     | -              | -               | -                       | -                                | -    | -                   | -     | -27.0      | -           | -    |
| 4   | 36260.00    | 41.4               | 41.3 | 41.2                  | 24.6           | 16.9            | 0.0                     | 59.4                             | 59.3 | -35.8               | -35.9 | -27.0      | 8.8         | 8.9  |

Result(EIRP[dBm])=10\*LOG((10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 } / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

\*used conversion formula

**11n(20HT) Tx Lower Band/Mch(5200MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                   |               |  |
|-----------|-----------------------------------|---------------|--|
| Company   | silex technology, Inc.            | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3   |
| Equipment | MiniPCI Wireless LAN Board        | Test Distance | 1m / 0.5m  |
| Model     | SX-10WAN                          | Date          | 05/29, 2008                      05/29, 2008                      05/30, 2008          |
| S/N       | 008092011314                      | Temperature   | 22deg.C.                      23deg.C.                      25deg.C.                   |
| Power     | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 74 %                      60%                      59 %                                |
| Mode      | 11n(20HT), Tx, 5200MHz,           | Engineer      | Takahiro                      Takahiro Hatakeda                      Takahiro Hatakeda |
|           |                                   |               | Hatakeda   |
|           | 130Mbps, Ant 1, 2, 3              |               | (10G-18GHz)                      (18G-26.5GHz)                      (26.5G-40GHz)      |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis      |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis   |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq. [MHz] | S/A Reading [dBuV] |      | Antenna Factor [dB/m] | Amp. Gain [dB] | Cable Loss [dB] | ATT or Filter Loss [dB] | Electric Field Strength [dBuV/m] |      | Result (EIRP) [dBm] |       | Lmit [dBm] | Margin [dB] |      |
|---|-------------|--------------------|------|-----------------------|----------------|-----------------|-------------------------|----------------------------------|------|---------------------|-------|------------|-------------|------|
|   |             | HOR                | VER  |                       |                |                 |                         | HOR                              | VER  | HOR                 | VER   |            | HOR         | VER  |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |             |                    |      |                       |                |                 |                         |                                  |      |                     |       |            |             |      |
| 1   | 10400.00    | 42.2               | 42.9 | 39.1                  | 32.6           | 6.0             | 0.6                     | 45.8                             | 46.5 | -49.4               | -48.7 | -27.0      | 22.4        | 21.7 |
| 2   | 26000.00    | NS                 | NS   | -                     | -              | -               | -                       | -                                | -    | -                   | -     | -27.0      | -           | -    |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |             |                    |      |                       |                |                 |                         |                                  |      |                     |       |            |             |      |
| 3   | 36400.00    | 40.1               | 40.0 | 41.2                  | 24.5           | 16.9            | 0.0                     | 58.2                             | 58.1 | -37.0               | -37.1 | -27.0      | 10.0        | 10.1 |

Result(EIRP[dBm])=10\*LOG(( { 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] } ^ 2 ) / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.  
\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.  
\*The test result is round off to one or two decimal places, so some differences might be observed.  
\*NS: No signal detect.



**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

\*used conversion formula

**11n(20HT) Tx Lower Band/Hch(5240MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                   |               |  |
|-----------|-----------------------------------|---------------|--|
| Company   | silex technology, Inc.            | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3   |
| Equipment | MiniPCI Wireless LAN Board        | Test Distance | 1m / 0.5m  |
| Model     | SX-10WAN                          | Date          | 05/29, 2008                      05/29, 2008                      05/30, 2008          |
| S/N       | 008092011314                      | Temperature   | 22deg.C.                      23deg.C.                      25deg.C.                   |
| Power     | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 74 %                      60%                      59 %                                |
| Mode      | 11n(20HT), Tx, 5240MHz,           | Engineer      | Takahiro                      Takahiro Hatakeda                      Takahiro Hatakeda |
|           | 130Mbps, Ant 1, 2, 3              |               | (10G-18GHz)                      (18G-26.5GHz)                      (26.5G-40GHz)      |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis      |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis   |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq. [MHz] | S/A Reading [dBuV] |      | Antenna Factor [dB/m] | Amp. Gain [dB] | Cable Loss [dB] | ATT or Filter Loss [dB] | Electric Field Strength [dBuV/m] |      | Result (EIRP) [dBm] |       | Lmit [dBm] | Margin [dB] |      |
|---|-------------|--------------------|------|-----------------------|----------------|-----------------|-------------------------|----------------------------------|------|---------------------|-------|------------|-------------|------|
|   |             | HOR                | VER  |                       |                |                 |                         | HOR                              | VER  | HOR                 | VER   |            | HOR         | VER  |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |             |                    |      |                       |                |                 |                         |                                  |      |                     |       |            |             |      |
| 1   | 10480.00    | 42.0               | 43.6 | 39.3                  | 32.7           | 6.0             | 0.6                     | 45.7                             | 47.3 | -49.5               | -47.9 | -27.0      | 22.5        | 20.9 |
| 2   | 26200.00    | NS                 | NS   | -                     | -              | -               | -                       | -                                | -    | -                   | -     | -27.0      | -           | -    |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |             |                    |      |                       |                |                 |                         |                                  |      |                     |       |            |             |      |
| 3   | 36680.00    | 42.0               | 41.9 | 41.2                  | 24.4           | 16.9            | 0.0                     | 60.2                             | 60.1 | -35.0               | -35.1 | -27.0      | 8.0         | 8.1  |

Result(EIRP[dBm])=10\*LOG(( { 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] } ^ 2 ) / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

**\*used conversion formula**

**11n(20HT) Tx Middle Band/Lch(5260MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2 +3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                   |               |  |
|-----------|-----------------------------------|---------------|--|
| Company   | silex technology, Inc.            | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3             |
| Equipment | MiniPCI Wireless LAN Board        | Test Distance | 1m / 0.5m  |
| Model     | SX-10WAN                          | Date          | 05/29, 2008      05/29, 2008      05/30, 2008          |
| S/N       | 008092011314                      | Temperature   | 22deg.C.      23deg.C.      25deg.C.                   |
| Power     | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 74 %      60%      59 %                                |
| Mode      | 11n(20HT), Tx, 5260MHz,           | Engineer      | Takahiro      Takahiro Hatakeda      Takahiro Hatakeda |
|           | 130Mbps, Ant 2                    |               | Hatakeda   |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis      |               | (10G-18GHz)      (18G-26.5GHz)      (26.5G-40GHz)      |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis   |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |      |
|---|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|------|
|   |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER  |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 1   | 10520.00       | 43.9                  | 44.6 | 39.3                        | 32.7                 | 6.0                   | 0.6                           | 47.6                                | 48.3 | -47.6                  | -46.9 | -27.0         | 20.6           | 19.9 |
| 2   | 26300.00       | NS                    | NS   | -                           | -                    | -                     | -                             | -                                   | -    | -                      | -     | -27.0         | -              | -    |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 3   | 36820.00       | 42.4                  | 42.3 | 41.2                        | 24.3                 | 17.0                  | 0.0                           | 60.8                                | 60.7 | -34.4                  | -34.5 | -27.0         | 7.4            | 7.5  |

Result(EIRP[dBm])=10\*LOG((10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 } / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

**\*used conversion formula**

**11n(20HT) Tx Middle Band/Mch(5280MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2+ 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                   |               |  |
|-----------|-----------------------------------|---------------|--|
| Company   | silex technology, Inc.            | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3             |
| Equipment | MiniPCI Wireless LAN Board        | Test Distance | 1m / 0.5m  |
| Model     | SX-10WAN                          | Date          | 05/29, 2008      05/29, 2008      05/30, 2008          |
| S/N       | 008092011314                      | Temperature   | 22deg.C.      23deg.C.      25deg.C.                   |
| Power     | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 74 %      60%      59 %                                |
| Mode      | 11n(20HT), Tx, 5280MHz,           | Engineer      | Takahiro      Takahiro Hatakeda      Takahiro Hatakeda |
|           | 130Mbps, Ant 1, 2, 3              |               | Hatakeda      Hatakeda      Hatakeda                   |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis      |               | (10G-18GHz)      (18G-26.5GHz)      (26.5G-40GHz)      |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis   |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |      |
|---|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|------|
|   |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER  |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 1   | 10560.00       | 42.7                  | 44.4 | 39.4                        | 32.7                 | 6.0                   | 0.6                           | 46.5                                | 48.2 | -48.7                  | -47.0 | -27.0         | 21.7           | 20.0 |
| 2   | 26400.00       | NS                    | NS   | -                           | -                    | -                     | -                             | -                                   | -    | -                      | -     | -27.0         | -              | -    |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 3   | 36960.00       | 43.0                  | 42.9 | 41.2                        | 24.2                 | 17.0                  | 0.0                           | 61.5                                | 61.4 | -33.7                  | -33.8 | -27.0         | 6.7            | 6.8  |

Result(EIRP[dBm])=10\*LOG(( { 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 } / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

**\*used conversion formula**

**11n(20HT) Tx Middle Band/Hch(5320MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2 +3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |   |               |  |
|-----------|---|---------------|--|
| Company   | silex technology, Inc.                          | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board                      | Test Distance | 0.5m                                       |
| Model     | SX-10WAN  | Date          | 05/30, 2008                                |
| S/N       | 008092011314                                    | Temperature   | 25deg.C.                                   |
| Power     | DC 3.3V (PC input AC 120V / 60Hz)               | Humidity      | 59 %                                       |
| Mode      | 11n(20HT), Tx, 5320MHz,<br>130Mbps, Ant 1, 2, 3 | Engineer      | Takahiro Hatakeda                          |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis                    |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis                 |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.  | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |            |
|--|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|------------|
|  |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER        |
| <b>Test distance 0.5meters, Electric Field Strength = Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |            |
| 1  | 26600.00       | NS                    | NS   | -                           | -                    | -                     | -                             | -                                   | -    | -                      | -     | -27.0         | -              | -          |
| 2  | 31920.00       | NS                    | NS   | -                           | -                    | -                     | -                             | -                                   | -    | -                      | -     | -27.0         | -              | -          |
| 3  | 37240.00       | 45.1                  | 45.2 | 41.5                        | 24.0                 | 17.1                  | 0.0                           | 64.2                                | 64.3 | -31.0                  | -30.9 | -27.0         | 4.0            | <b>3.9</b> |

Result(EIRP[dBm])=10\*LOG((10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 } / 30) \*10^3)

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

\*used conversion formula

**11n(40HT) Tx Lower Band/Lch(5190MHz), 270Mbps, Used Antenna for Tx: Antenna 1 + 2+ 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                   |               |  |
|-----------|-----------------------------------|---------------|--|
| Company   | silex technology, Inc.            | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3   |
| Equipment | MiniPCI Wireless LAN Board        | Test Distance | 1m / 0.5m  |
| Model     | SX-10WAN                          | Date          | 05/27, 2008                      05/29, 2008                      05/30, 2008          |
| S/N       | 008092011314                      | Temperature   | 23 deg.C.                      23deg.C.                      25deg.C.                  |
| Power     | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 53 %                      60%                      59 %                                |
| Mode      | 11n(40HT), Tx, 5190MHz,           | Engineer      | Takahiro                      Takahiro Hatakeda                      Takahiro Hatakeda |
|           | 270Mbps, Ant 1, 2, 3              |               | (10G-18GHz)                      (18G-26.5GHz)                      (26.5G-40GHz)      |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis      |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis   |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq. [MHz] | S/A Reading [dBuV] |      | Antenna Factor [dB/m] | Amp. Gain [dB] | Cable Loss [dB] | ATT or Filter Loss [dB] | Electric Field Strength [dBuV/m] |      | Result (EIRP) [dBm] |       | Limit [dBm] |      | Margin [dB] |  |
|---|-------------|--------------------|------|-----------------------|----------------|-----------------|-------------------------|----------------------------------|------|---------------------|-------|-------------|------|-------------|--|
|   |             | HOR                | VER  |                       |                |                 |                         | HOR                              | VER  | HOR                 | VER   | HOR         | VER  |             |  |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |             |                    |      |                       |                |                 |                         |                                  |      |                     |       |             |      |             |  |
| 1   | 10380.00    | 43.4               | 43.5 | 39.1                  | 32.6           | 6.1             | 0.5                     | 47.0                             | 47.1 | -48.2               | -48.1 | -27.0       | 21.2 | 21.1        |  |
| 2   | 25950.00    | NS                 | NS   | -                     | -              | -               | -                       | -                                | -    | -                   | -     | -27.0       | -    | -           |  |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |             |                    |      |                       |                |                 |                         |                                  |      |                     |       |             |      |             |  |
| 3   | 31140.00    | NS                 | NS   | -                     | -              | -               | -                       | -                                | -    | -                   | -     | -27.0       | -    | -           |  |
| 4   | 36330.00    | 41.5               | 41.4 | 41.2                  | 24.6           | 16.9            | 0.0                     | 59.5                             | 59.4 | -35.7               | -35.8 | -27.0       | 8.7  | 8.8         |  |

Result(EIRP[dBm])=10\*LOG((10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 } / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB  
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.  
\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.  
\*The test result is round off to one or two decimal places, so some differences might be observed.  
\* NS: No detect signal.

**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

**\*used conversion formula**

**11n(40HT) Tx Lower Band/Hch(5230MHz), 270Mbps, Used Antenna for Tx: Antenna 1 + 2+ 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |   |               |  |
|-----------|---|---------------|--|
| Company   | silex technology, Inc.                          | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3                         |
| Equipment | MiniPCI Wireless LAN Board                      | Test Distance | 1m / 0.5m  |
| Model     | SX-10WAN  | Date          | 05/29, 2008  |
| S/N       | 008092011314                                    | Temperature   | 23deg.C. 25deg.C.  |
| Power     | DC 3.3V (PC input AC 120V / 60Hz)               | Humidity      | 60% 59 %   |
| Mode      | 11n(40HT), Tx, 5230MHz,<br>270Mbps, Ant 1, 2, 3 | Engineer      | Takahiro Hatakeda Takahiro Hatakeda<br>(10G-26.5GHz) (26.5G-40GHz) |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis                    |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis                 |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |      |
|---|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|------|
|   |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER  |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 1   | 10460.00       | 39.9                  | 40.0 | 39.2                        | 32.7                 | 6.0                   | 0.6                           | 43.5                                | 43.6 | -51.7                  | -51.6 | -27.0         | 24.7           | 24.6 |
| 2   | 26150.00       | NS                    | NS   | -                           | -                    | -                     | -                             | -                                   | -    | -                      | -     | -27.0         | -              | -    |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 3   | 36610.00       | 41.9                  | 41.8 | 41.2                        | 24.4                 | 16.9                  | 0.0                           | 60.1                                | 60.0 | -35.1                  | -35.2 | -27.0         | 8.1            | 8.2  |

Result(EIRP[dBm])=10\*LOG((( 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 } / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

**\*used conversion formula**

**11n(40HT) Tx Middle Band/Lch(5270MHz), 270Mbps, Used Antenna for Tx: Antenna 1 + 2+ 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |   |               |  |
|-----------|---|---------------|--|
| Company   | silex technology, Inc.                          | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3                         |
| Equipment | MiniPCI Wireless LAN Board                      | Test Distance | 1m / 0.5m  |
| Model     | SX-10WAN  | Date          | 05/29, 2008  |
| S/N       | 008092011314                                    | Temperature   | 23deg.C. 25deg.C.  |
| Power     | DC 3.3V (PC input AC 120V / 60Hz)               | Humidity      | 60% 59 %   |
| Mode      | 11n(40HT), Tx, 5270MHz,<br>270Mbps, Ant 1, 2, 3 | Engineer      | Takahiro Hatakeda Takahiro Hatakeda<br>(10G-26.5GHz) (26.5G-40GHz) |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis                    |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis                 |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |      |
|---|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|------|
|   |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER  |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 1   | 10540.00       | 43.0                  | 42.5 | 39.3                        | 32.7                 | 6.0                   | 0.6                           | 46.7                                | 46.2 | -48.5                  | -49.0 | -27.0         | 21.5           | 22.0 |
| 2   | 26350.00       | NS                    | NS   | -                           | -                    | -                     | -                             | -                                   | -    | -                      | -     | -27.0         | -              | -    |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 3   | 36890.00       | 42.9                  | 43.0 | 41.2                        | 24.2                 | 17.0                  | 0.0                           | 61.4                                | 61.5 | -33.8                  | -33.7 | -27.0         | 6.8            | 6.7  |

Result(EIRP[dBm])=10\*LOG((( 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 } / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz:Outside of the restricted band)**

**\*used conversion formula**

**11n(40HT) Tx Middle Band/Hch(5310MHz), 270Mbps, Used Antenna for Tx: Antenna 1 + 2+ 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |   |               |  |
|-----------|---|---------------|--|
| Company   | silex technology, Inc.                          | Regulation    | FCC Part15 Subpart E 15.407 / RSS-210 A9.3                         |
| Equipment | MiniPCI Wireless LAN Board                      | Test Distance | 3m / 1m / 0.5m   |
| Model     | SX-10WAN  | Date          | 05/29, 2008  |
| S/N       | 008092011314                                    | Temperature   | 23deg.C. 25deg.C.  |
| Power     | DC 3.3V (PC input AC 120V / 60Hz)               | Humidity      | 60% 59 %   |
| Mode      | 11n(40HT), Tx, 5310MHz,<br>270Mbps, Ant 1, 2, 3 | Engineer      | Takahiro Hatakeda Takahiro Hatakeda<br>(10G-26.5GHz) (26.5G-40GHz) |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis                    |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis                 |               |  |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.   | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |     |
|---|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|-----|
|   |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER |
| <b>Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)</b>     |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |     |
| 1   | 26550.00       | NS                    | NS   | -                           | -                    | -                     | -                             | -                                   | -    | -                      | -     | -27.0         | -              | -   |
| <b>Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |     |
| 2   | 37170.00       | 43.5                  | 43.4 | 41.4                        | 24.0                 | 17.1                  | 0.0                           | 62.5                                | 62.4 | -32.7                  | -32.8 | -27.0         | 5.7            | 5.8 |

Result(EIRP[dBm])=10\*LOG(( { 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] } ^ 2 } / 30) \*10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz)**  
**11a Rx Lower Band/Mch(5200MHz), Used Antenna for Rx: Antenna 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                   |               |  |
|-----------|-----------------------------------|---------------|--|
| Company   | silex technology, Inc.            | Regulation    | FCC Part15 Subpart C 15.209 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board        | Test Distance | 3m / 1m                                    |
| Model     | SX-10WAN                          | Date          | 05/18, 2008      05/19, 2008               |
| S/N       | 008092011317                      | Temperature   | 24 deg.C.      23 deg.C.                   |
| Power     | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 45 %      42 %                             |
| Mode      | 11a, Rx, 5200MHz, Ant 3           | Engineer      | Hisayoshi Sato      Takayuki Shimada       |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis      |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis   |               |  |

**PK DETECT**

| No.   | Freq.<br>[MHz] | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>PK<br>[dBuV/m] | Margin<br>[dB] |      |
|---|----------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|   |                | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>             |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1   | 5200.0         | 39.2              | 40.0 | 31.4                     | 30.9                 | 3.6                   | 0.0            | 43.3               | 44.1 | 73.9                    | 30.6           | 29.8 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b> |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2   | 10400.0        | 40.2              | 40.1 | 39.1                     | 32.6                 | 5.5                   | 0.0            | 42.7               | 42.6 | 73.9                    | 31.2           | 31.3 |
| 3   | 15600.0        | 40.4              | 40.5 | 38.1                     | 31.6                 | 6.5                   | 0.0            | 43.9               | 44.0 | 73.9                    | 30.0           | 29.9 |

**AV DETECT**

| No.   | Freq.<br>[MHz] | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>AV<br>[dBuV/m] | Margin<br>[dB] |      |
|---|----------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|   |                | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>             |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1   | 5200.0         | 28.6              | 28.5 | 31.4                     | 30.9                 | 3.6                   | 0.0            | 32.7               | 32.6 | 53.9                    | 21.2           | 21.3 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b> |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2   | 10400.0        | 26.5              | 26.5 | 39.1                     | 32.6                 | 5.5                   | 0.0            | 29.0               | 29.0 | 53.9                    | 24.9           | 24.9 |
| 3   | 15600.0        | 27.4              | 27.4 | 38.1                     | 31.6                 | 6.5                   | 0.0            | 30.9               | 30.9 | 53.9                    | 23.0           | 23.0 |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) =

9.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

**Radiated Spurious Emission (above 1GHz)**  
**11a Rx Middle Band/Mch(5280MHz), Used Antenna for Rx: Antenna 3**

UL Japan, Inc.

Company : silex technology, Inc.  
Equipment : MiniPCI Wireless LAN Board  
Model : SX-10WAN  
S/N : 008092011317  
Power : DC 3.3V (PC input AC 120V / 60Hz)  
Mode : 11a, Rx, 5280MHz, Ant 3  
EUT-Axis : (Worst) H: Y-axis, V: Y-axis  
Ant-Axis : (Worst) H: X0-axis, V: X90-axis

Head Office EMC Lab. No.4 Anechoic Chamber  
Regulation : FCC Part15 Subpart C 15.209 / RSS-210 A9.3  
Test Distance : 3m / 1m  
Date : 05/18, 2008                      05/19, 2008  
Temperature : 24 deg.C.                      23 deg.C.  
Humidity : 45 %                      42 %  
Engineer : Hisayoshi Sato                      Takayuki Shimada

**PK DETECT**

| No.   | Freq.<br>[MHz] | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>PK<br>[dBuV/m] | Margin<br>[dB] |      |
|---|----------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|   |                | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>             |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1   | 5280.0         | 38.9              | 37.4 | 31.4                     | 30.9                 | 3.6                   | 0.0            | 43.0               | 41.5 | 73.9                    | 30.9           | 32.4 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b> |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2   | 10560.0        | 40.0              | 40.3 | 39.4                     | 32.7                 | 5.5                   | 0.0            | 42.7               | 43.0 | 73.9                    | 31.2           | 30.9 |
| 3   | 15960.0        | 41.6              | 41.3 | 36.9                     | 31.5                 | 6.6                   | 0.0            | 44.1               | 43.8 | 73.9                    | 29.8           | 30.1 |

**AV DETECT**

| No.   | Freq.<br>[MHz] | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>AV<br>[dBuV/m] | Margin<br>[dB] |      |
|---|----------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|   |                | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>             |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1   | 5280.0         | 29.5              | 29.3 | 31.4                     | 30.9                 | 3.6                   | 0.0            | 33.6               | 33.4 | 53.9                    | 20.3           | 20.5 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b> |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2   | 10560.0        | 27.0              | 27.0 | 39.4                     | 32.7                 | 5.5                   | 0.0            | 29.7               | 29.7 | 53.9                    | 24.2           | 24.2 |
| 3   | 15960.0        | 28.0              | 28.0 | 36.9                     | 31.5                 | 6.6                   | 0.0            | 30.5               | 30.5 | 53.9                    | 23.4           | 23.4 |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

- \* Except for the above table : All other spurious emissions were less than 20dB for the limit.
- \* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
- \*The limit is rounded down to one decimal place.
- \*The test result is round off to one or two decimal places, so some differences might be observed.
- \* NS: No detect signal.

**Radiated Spurious Emission (above 1GHz)**

**11n(20HT) Rx Lower Band/Mch(5200MHz), Used Antenna for Rx: Antenna 1 + 2 + 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                     |               |  |
|-----------|-------------------------------------|---------------|--|
| Company   | silex technology, Inc.              | Regulation    | FCC Part15 Subpart C 15.209 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board          | Test Distance | 3m / 1m                                    |
| Model     | SX-10WAN                            | Date          | 05/28, 2008      05/29, 2008               |
| S/N       | 008092011314                        | Temperature   | 22 deg.C.      23 deg.C.                   |
| Power     | DC 3.3V (PC input AC 120V / 60Hz)   | Humidity      | 71 %      60 %                             |
| Mode      | 11n(20HT), Rx, 5200MHz, Ant 1, 2, 3 | Engineer      | Takayuki Shimada      Takahiro Hatakeda    |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis        |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis     |               |  |

**PK DETECT**

| No.   | Freq.<br>[MHz] | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>PK<br>[dBuV/m] | Margin<br>[dB] |      |
|---|----------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|   |                | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>             |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1   | 5200.0         | 39.4              | 38.8 | 31.4                     | 30.9                 | 3.6                   | 0.0            | 43.5               | 42.9 | 73.9                    | 30.4           | 31.0 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b> |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2   | 10400.0        | 42.4              | 42.7 | 39.1                     | 32.6                 | 5.5                   | 0.0            | 44.9               | 45.2 | 73.9                    | 29.0           | 28.7 |
| 3   | 15600.0        | 43.9              | 44.0 | 38.1                     | 31.6                 | 6.5                   | 0.0            | 47.4               | 47.5 | 73.9                    | 26.5           | 26.4 |

**AV DETECT**

| No.   | Freq.<br>[MHz] | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>AV<br>[dBuV/m] | Margin<br>[dB] |      |
|---|----------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|   |                | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>             |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1   | 5200.0         | 25.0              | 25.0 | 31.4                     | 30.9                 | 3.6                   | 0.0            | 29.1               | 29.1 | 53.9                    | 24.8           | 24.8 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b> |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2   | 10400.0        | 28.6              | 28.6 | 39.1                     | 32.6                 | 5.5                   | 0.0            | 31.1               | 31.1 | 53.9                    | 22.8           | 22.8 |
| 3   | 15600.0        | 30.8              | 30.8 | 38.1                     | 31.6                 | 6.5                   | 0.0            | 34.3               | 34.3 | 53.9                    | 19.6           | 19.6 |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

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**Radiated Spurious Emission (above 1GHz)**  
**11n(20HT) Rx Middle Band/Mch(5280MHz), Used Antenna for Rx: Antenna 1 + 2 + 3**

UL Japan, Inc.

Company : silex technology, Inc.  
Equipment : MiniPCI Wireless LAN Board  
Model : SX-10WAN  
S/N : 008092011314  
Power : DC 3.3V (PC input AC 120V / 60Hz)  
Mode : 11n(20HT), Rx, 5280MHz, Ant 1, 2, 3  
EUT-Axis : (Worst) H: Y-axis, V: Y-axis  
Ant-Axis : (Worst) H: X0-axis, V: X90-axis

Head Office EMC Lab. No.4 Anechoic Chamber  
Regulation : FCC Part15 Subpart C 15.209 / RSS-210 A9.3  
Test Distance : 3m / 1m  
Date : 05/28, 2008      05/29, 2008  
Temperature : 22 deg.C.      23 deg.C.  
Humidity : 71 %      60 %  
Engineer : Takayuki Shimada      Takahiro Hatakeda

**PK DETECT**

| No.   | Freq.<br>[MHz] | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>PK<br>[dBuV/m] | Margin<br>[dB] |      |
|---|----------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|   |                | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>             |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1   | 5280.0         | 40.3              | 40.0 | 31.4                     | 30.9                 | 3.7                   | 0.0            | 44.5               | 44.2 | 73.9                    | 29.4           | 29.7 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b> |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2   | 10560.0        | 41.6              | 41.8 | 39.4                     | 32.7                 | 5.5                   | 0.0            | 44.3               | 44.5 | 73.9                    | 29.6           | 29.4 |
| 3   | 15960.0        | 43.6              | 44.0 | 37.3                     | 31.5                 | 6.6                   | 0.0            | 46.5               | 46.9 | 73.9                    | 27.4           | 27.0 |

**AV DETECT**

| No.   | Freq.<br>[MHz] | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>AV<br>[dBuV/m] | Margin<br>[dB] |      |
|---|----------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|   |                | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>             |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1   | 5280.0         | 26.7              | 26.6 | 31.4                     | 30.9                 | 3.7                   | 0.0            | 30.9               | 30.8 | 53.9                    | 23.0           | 23.1 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b> |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2   | 10560.0        | 28.6              | 28.7 | 39.4                     | 32.7                 | 5.5                   | 0.0            | 31.3               | 31.4 | 53.9                    | 22.6           | 22.5 |
| 3   | 15960.0        | 30.3              | 30.3 | 37.3                     | 31.5                 | 6.6                   | 0.0            | 33.2               | 33.2 | 53.9                    | 20.7           | 20.7 |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) =

9.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

**Radiated Spurious Emission (above 1GHz)**

**11n(40HT) Rx Lower Band/Lch(5190MHz), Used Antenna for Rx: Antenna 1 + 2+ 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                     |               |  |
|-----------|-------------------------------------|---------------|--|
| Company   | silex technology, Inc.              | Regulation    | FCC Part15 Subpart C 15.209 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board          | Test Distance | 3m / 1m                                    |
| Model     | SX-10WAN                            | Date          | 05/28, 2008      05/29, 2008               |
| S/N       | 008092011314                        | Temperature   | 22 deg.C.      23 deg.C.                   |
| Power     | DC 3.3V (PC input AC 120V / 60Hz)   | Humidity      | 71 %      60 %                             |
| Mode      | 11n(40HT), Rx, 5190MHz, Ant 1, 2, 3 | Engineer      | Takayuki Shimada      Takahiro Hatakeda    |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis        |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis     |               |  |

**PK DETECT**

| No.   | Freq.<br>[MHz] | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>PK<br>[dBuV/m] | Margin<br>[dB] |      |
|---|----------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|   |                | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>             |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1   | 5190.0         | 40.8              | 40.3 | 31.4                     | 30.9                 | 3.6                   | 0.0            | 44.9               | 44.4 | 73.9                    | 29.0           | 29.5 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b> |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2   | 10380.0        | 42.0              | 42.3 | 39.1                     | 32.6                 | 5.5                   | 0.0            | 44.5               | 44.8 | 73.9                    | 29.4           | 29.1 |
| 3   | 15570.0        | 44.6              | 44.3 | 38.2                     | 31.6                 | 6.5                   | 0.0            | 48.2               | 47.9 | 73.9                    | 25.7           | 26.0 |

**AV DETECT**

| No.   | Freq.<br>[MHz] | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>AV<br>[dBuV/m] | Margin<br>[dB] |      |
|---|----------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|   |                | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>             |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1   | 5190.0         | 26.7              | 26.7 | 31.4                     | 30.9                 | 3.6                   | 0.0            | 30.8               | 30.8 | 53.9                    | 23.1           | 23.1 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b> |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2   | 10380.0        | 28.7              | 28.7 | 39.1                     | 32.6                 | 5.5                   | 0.0            | 31.2               | 31.2 | 53.9                    | 22.7           | 22.7 |
| 3   | 15570.0        | 30.8              | 30.8 | 38.2                     | 31.6                 | 6.5                   | 0.0            | 34.4               | 34.4 | 53.9                    | 19.5           | 19.5 |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

\*The limit is rounded down to one decimal place.

\*The test result is round off to one or two decimal places, so some differences might be observed.

\* NS: No detect signal.

**UL Japan, Inc.**

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**Radiated Spurious Emission (above 1GHz)**

**11n(40HT) Rx Middle Band/Hch(5310MHz), Used Antenna for Rx: Antenna 1 + 2 +3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Anechoic Chamber

|           |                                     |               |  |
|-----------|-------------------------------------|---------------|--|
| Company   | silex technology, Inc.              | Regulation    | FCC Part15 Subpart C 15.209 / RSS-210 A9.3 |
| Equipment | MiniPCI Wireless LAN Board          | Test Distance | 3m / 1m                                    |
| Model     | SX-10WAN                            | Date          | 05/28, 2008      05/29, 2008               |
| S/N       | 008092011314                        | Temperature   | 22 deg.C.      23 deg.C.                   |
| Power     | DC 3.3V (PC input AC 120V / 60Hz)   | Humidity      | 71 %      60 %                             |
| Mode      | 11n(40HT), Rx, 5310MHz, Ant 1, 2, 3 | Engineer      | Takayuki Shimada      Takahiro Hatakeda    |
| EUT-Axis  | (Worst) H: Y-axis, V: Y-axis        |               |  |
| Ant-Axis  | (Worst) H: X0-axis, V: X90-axis     |               |  |

**PK DETECT**

| No.   | Freq.<br>[MHz] | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>PK<br>[dBuV/m] | Margin<br>[dB] |      |
|---|----------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|   |                | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>             |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1   | 5310.0         | 38.9              | 39.4 | 31.4                     | 30.9                 | 3.7                   | 0.0            | 43.1               | 43.6 | 73.9                    | 30.8           | 30.3 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b> |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2   | 10620.0        | 42.6              | 42.8 | 39.4                     | 32.8                 | 5.5                   | 0.0            | 45.2               | 45.4 | 73.9                    | 28.7           | 28.5 |
| 3   | 15930.0        | 43.7              | 43.3 | 37.0                     | 31.5                 | 6.6                   | 0.0            | 46.3               | 45.9 | 73.9                    | 27.6           | 28.0 |

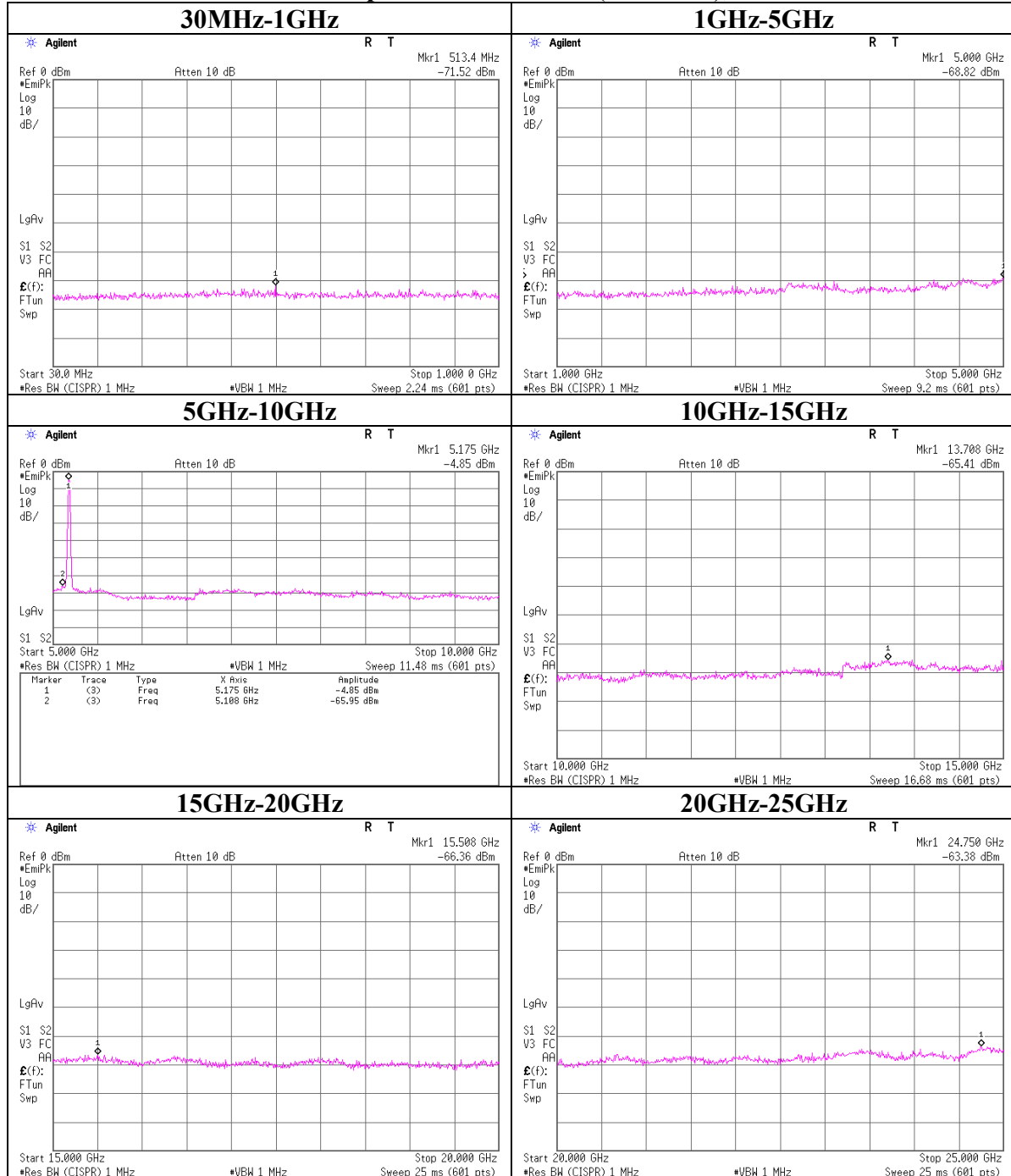
**AV DETECT**

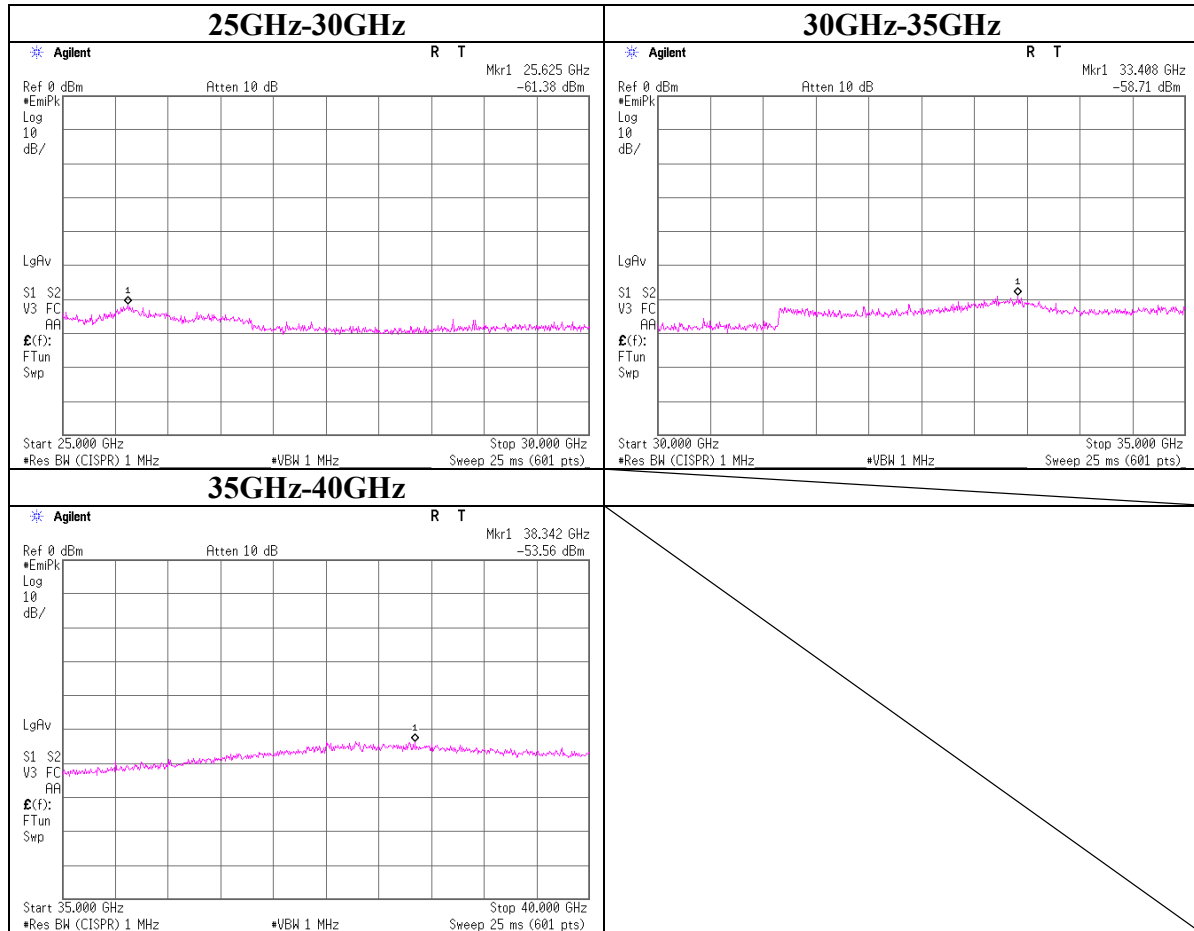
| No.   | Freq.<br>[MHz] | Reading<br>[dBuV] |      | Ant.<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | Filter<br>[dB] | Result<br>[dBuV/m] |      | Limit<br>AV<br>[dBuV/m] | Margin<br>[dB] |      |
|---|----------------|-------------------|------|--------------------------|----------------------|-----------------------|----------------|--------------------|------|-------------------------|----------------|------|
|   |                | HOR               | VER  |                          |                      |                       |                | HOR                | VER  |                         | HOR            | VER  |
| <b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b>             |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 1   | 5310.0         | 25.1              | 25.1 | 31.4                     | 30.9                 | 3.7                   | 0.0            | 29.3               | 29.3 | 53.9                    | 24.6           | 24.6 |
| <b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)</b> |                |                   |      |                          |                      |                       |                |                    |      |                         |                |      |
| 2   | 10620.0        | 28.9              | 28.9 | 39.4                     | 32.8                 | 5.5                   | 0.0            | 31.5               | 31.5 | 53.9                    | 22.4           | 22.4 |
| 3   | 15930.0        | 30.0              | 30.2 | 37.0                     | 31.5                 | 6.6                   | 0.0            | 32.6               | 32.8 | 53.9                    | 21.3           | 21.1 |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

- \* Except for the above table : All other spurious emissions were less than 20dB for the limit.
- \* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
- \*The limit is rounded down to one decimal place.
- \*The test result is round off to one or two decimal places, so some differences might be observed.
- \* NS: No detect signal.

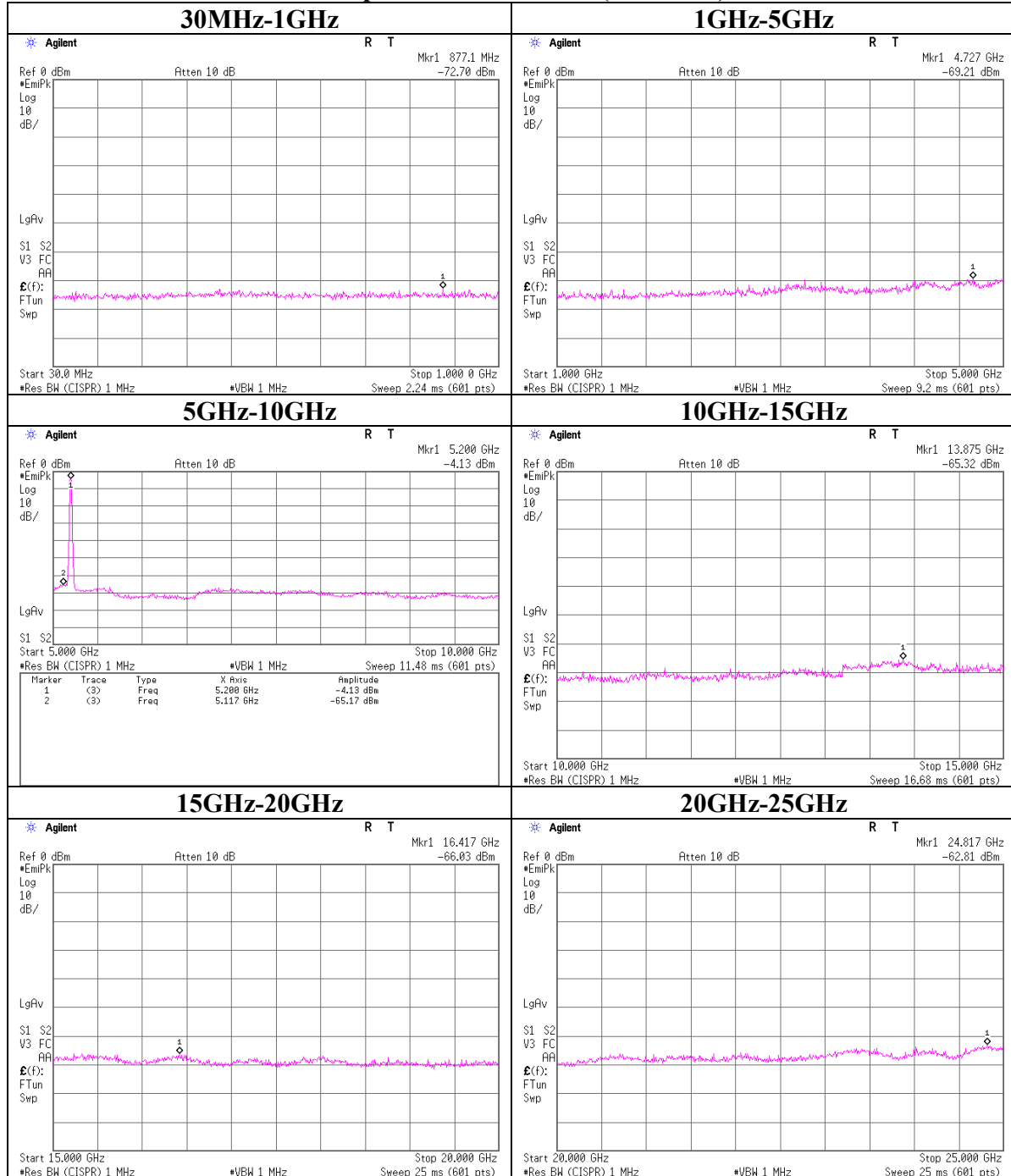
**Conducted Spurious Emission**  
**11a Tx 54Mbps Lower Band/ Lch(5180MHz), Antenna 3**

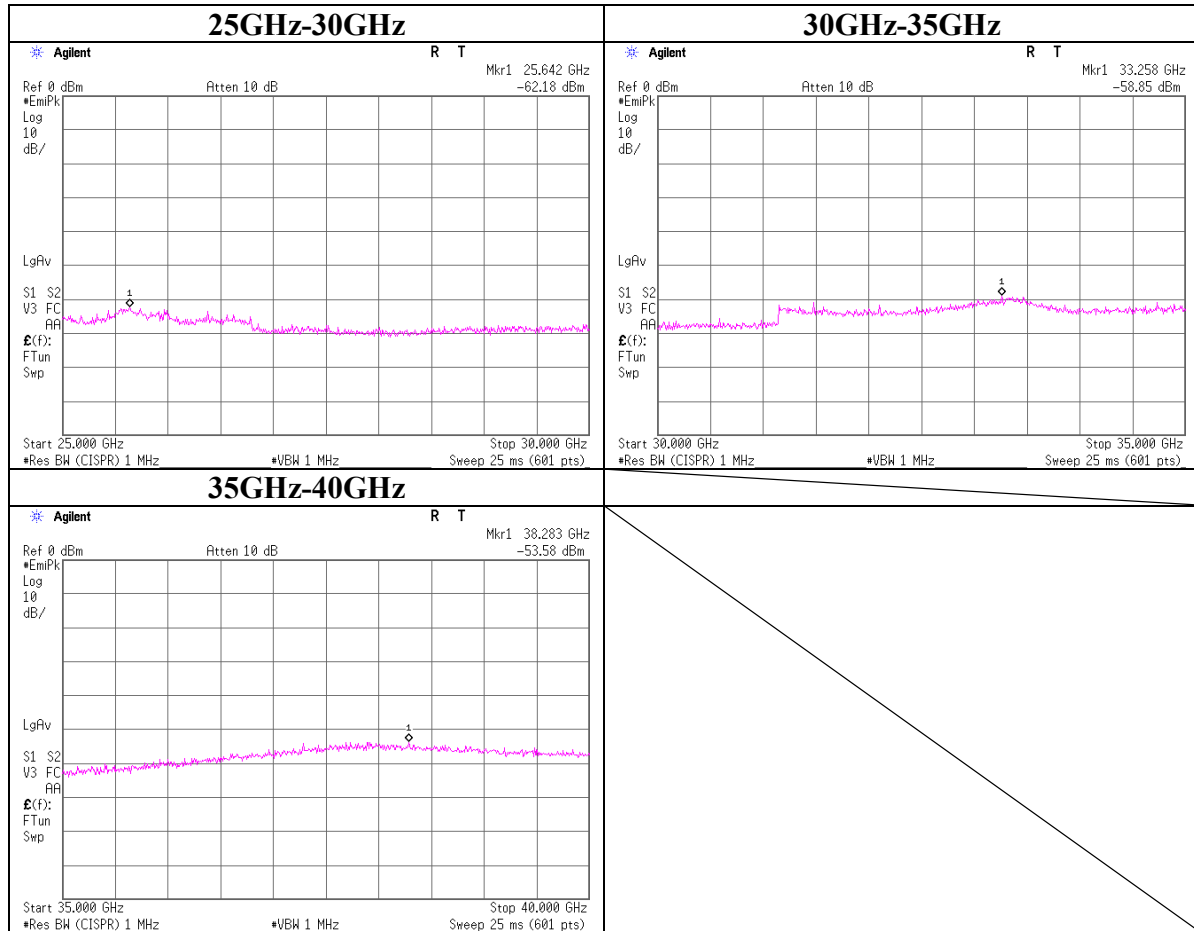




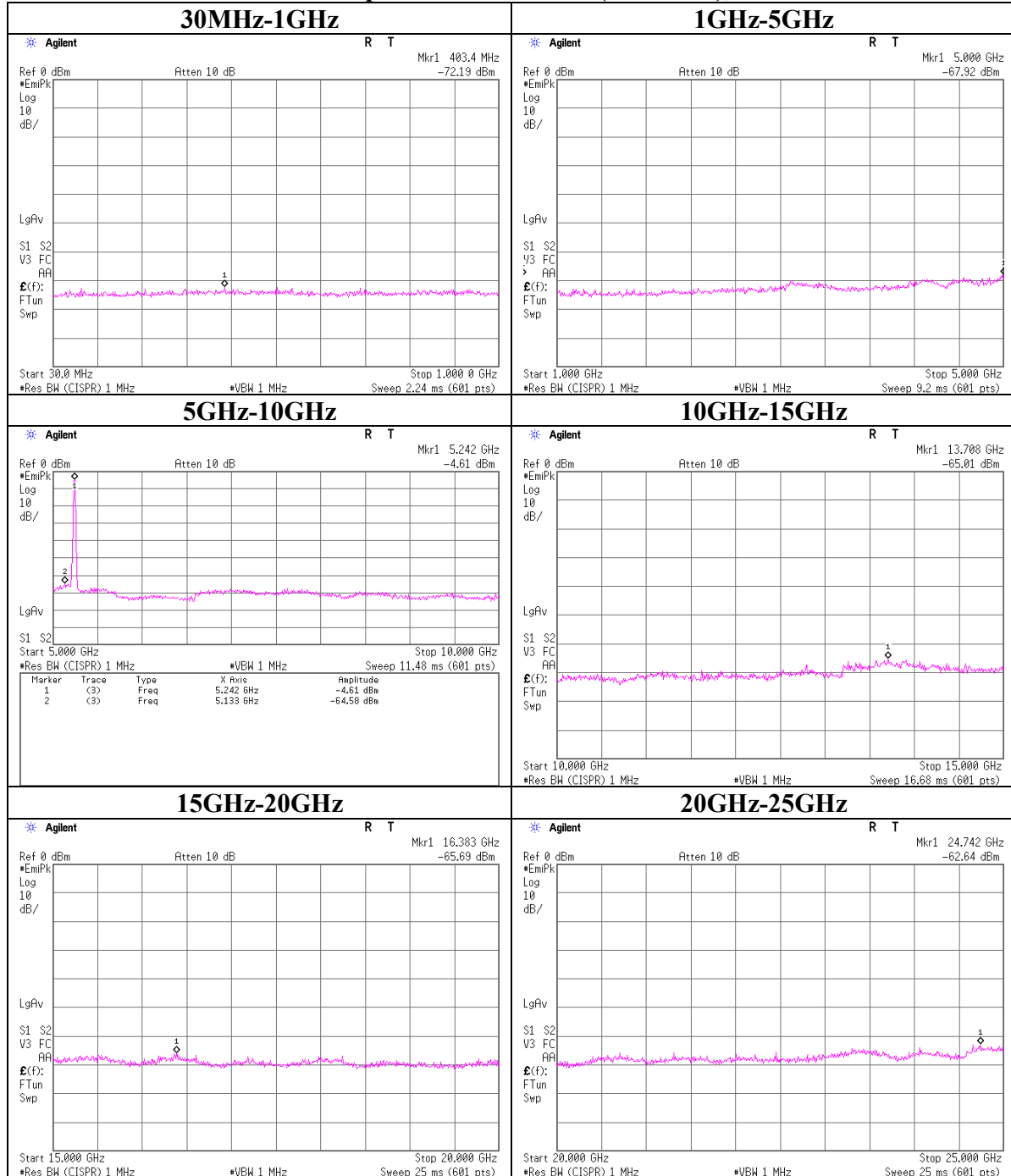


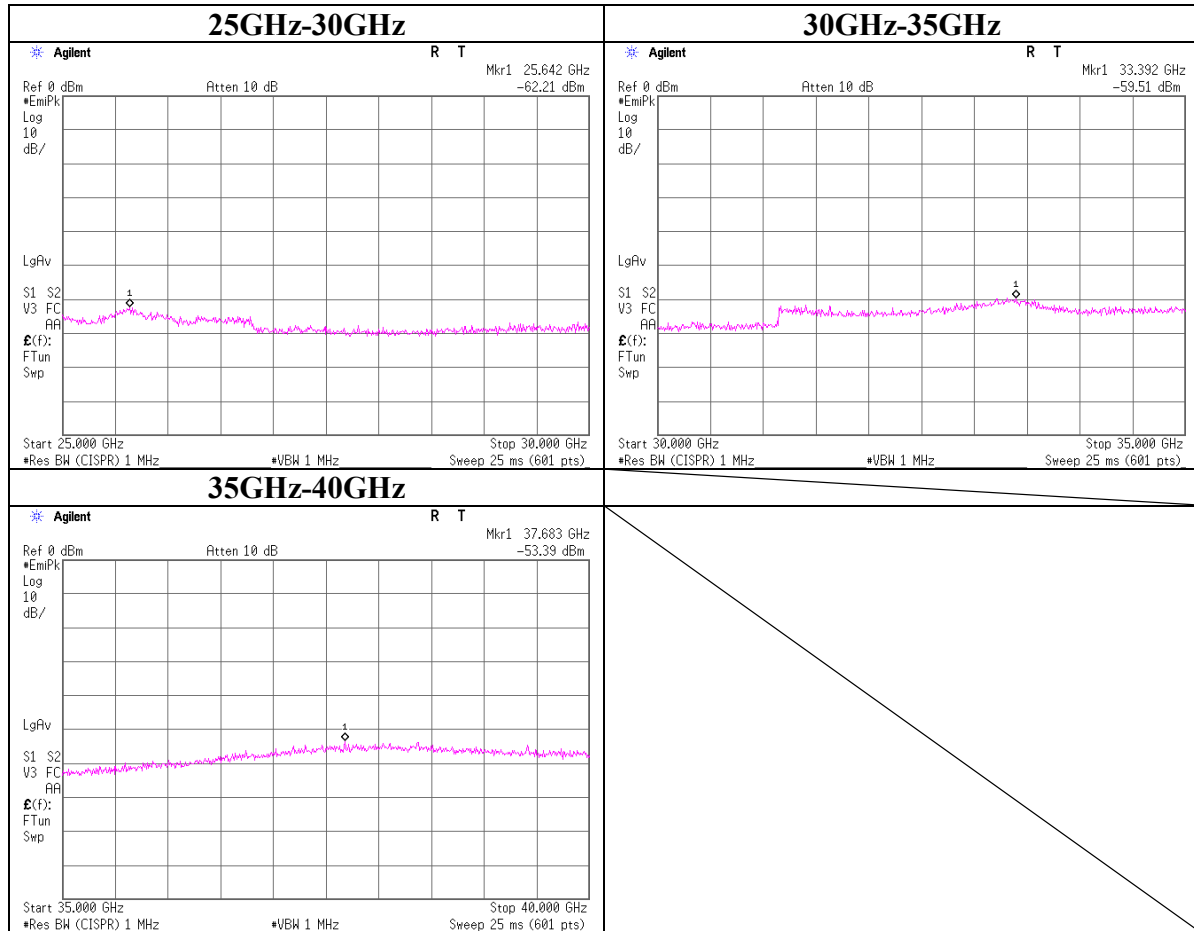
**Conducted Spurious Emission**  
**11a Tx 54Mbps Lower Band/ Mch(5200MHz), Antenna 3**



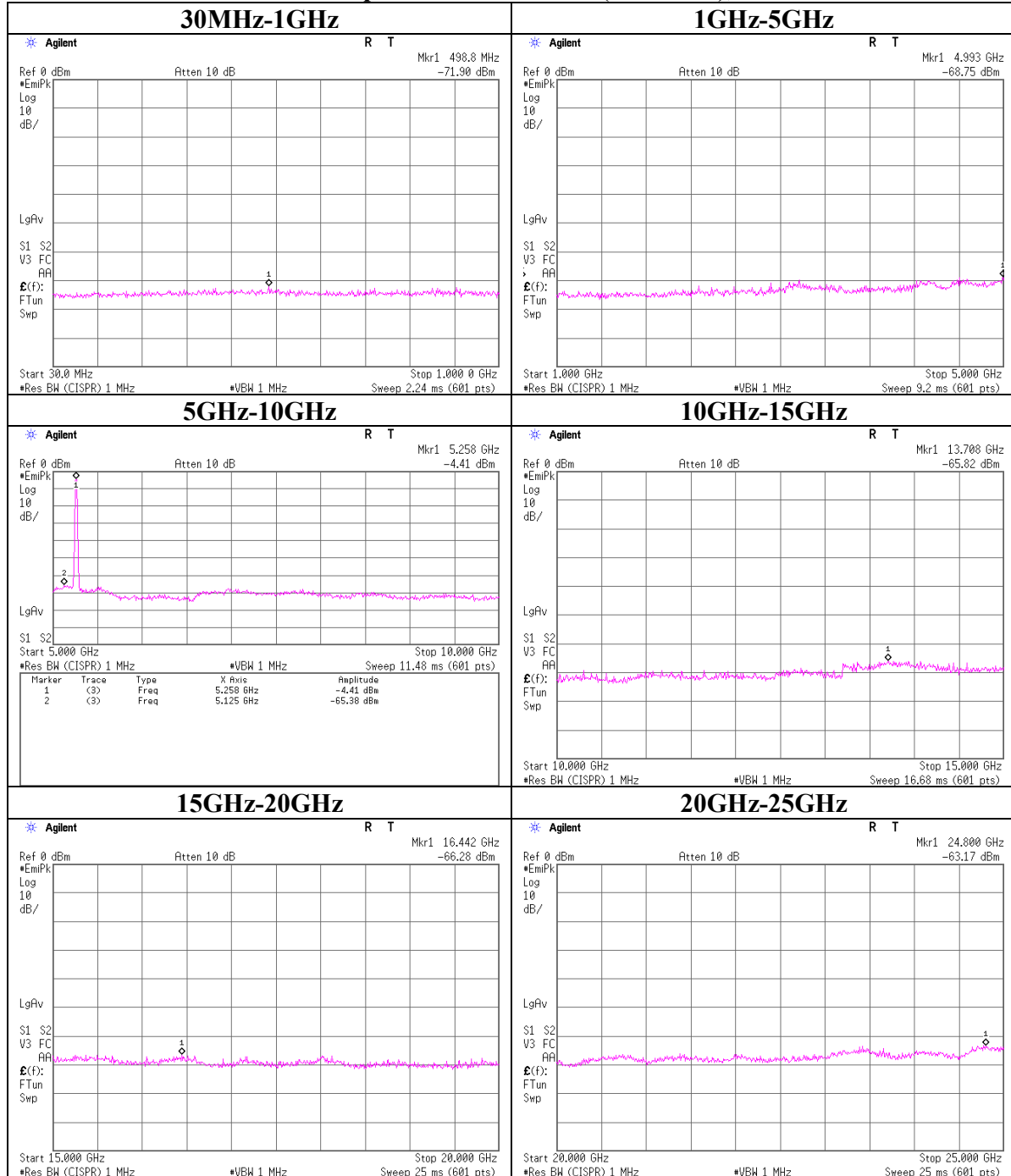


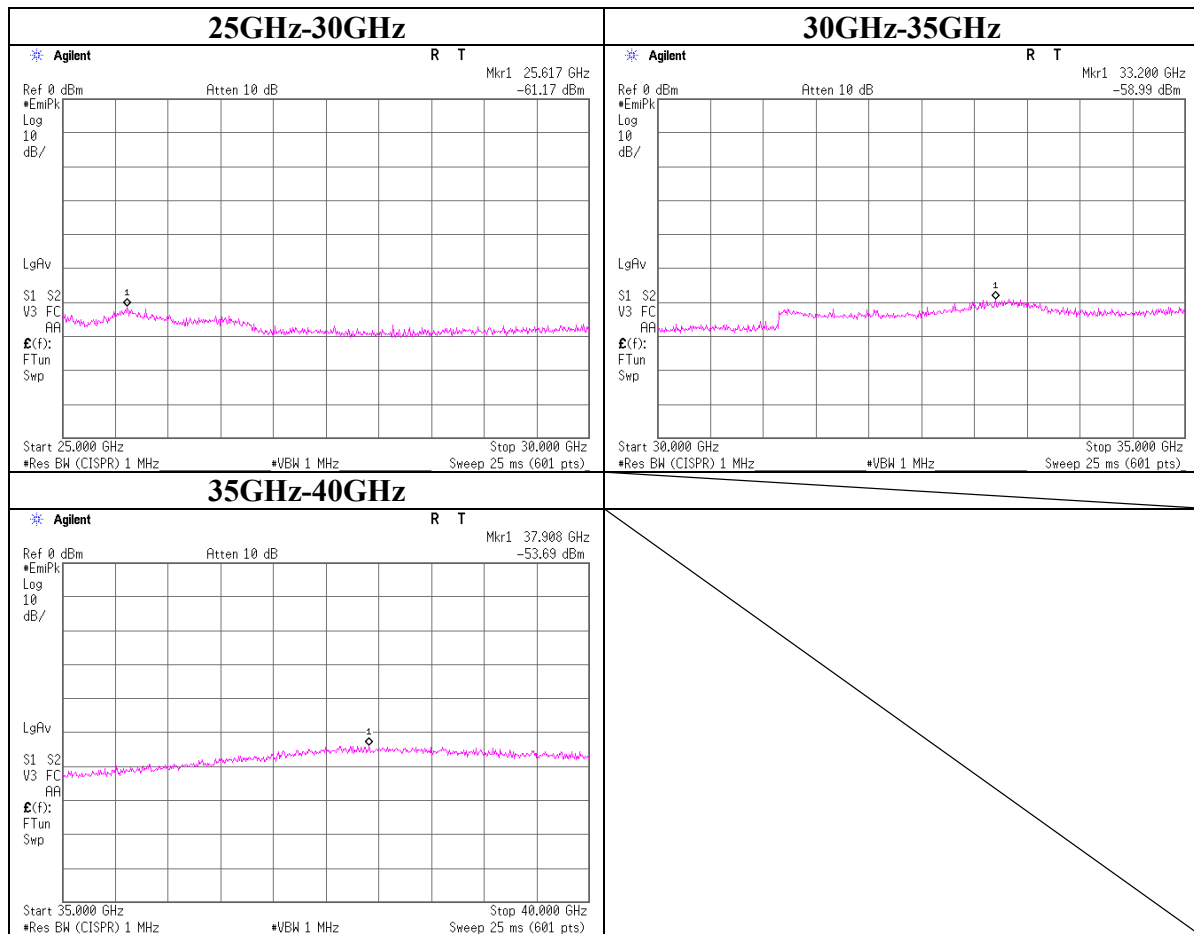
**Conducted Spurious Emission**  
**11a Tx 54Mbps Lower Band/ Hch(5240MHz), Antenna 3**



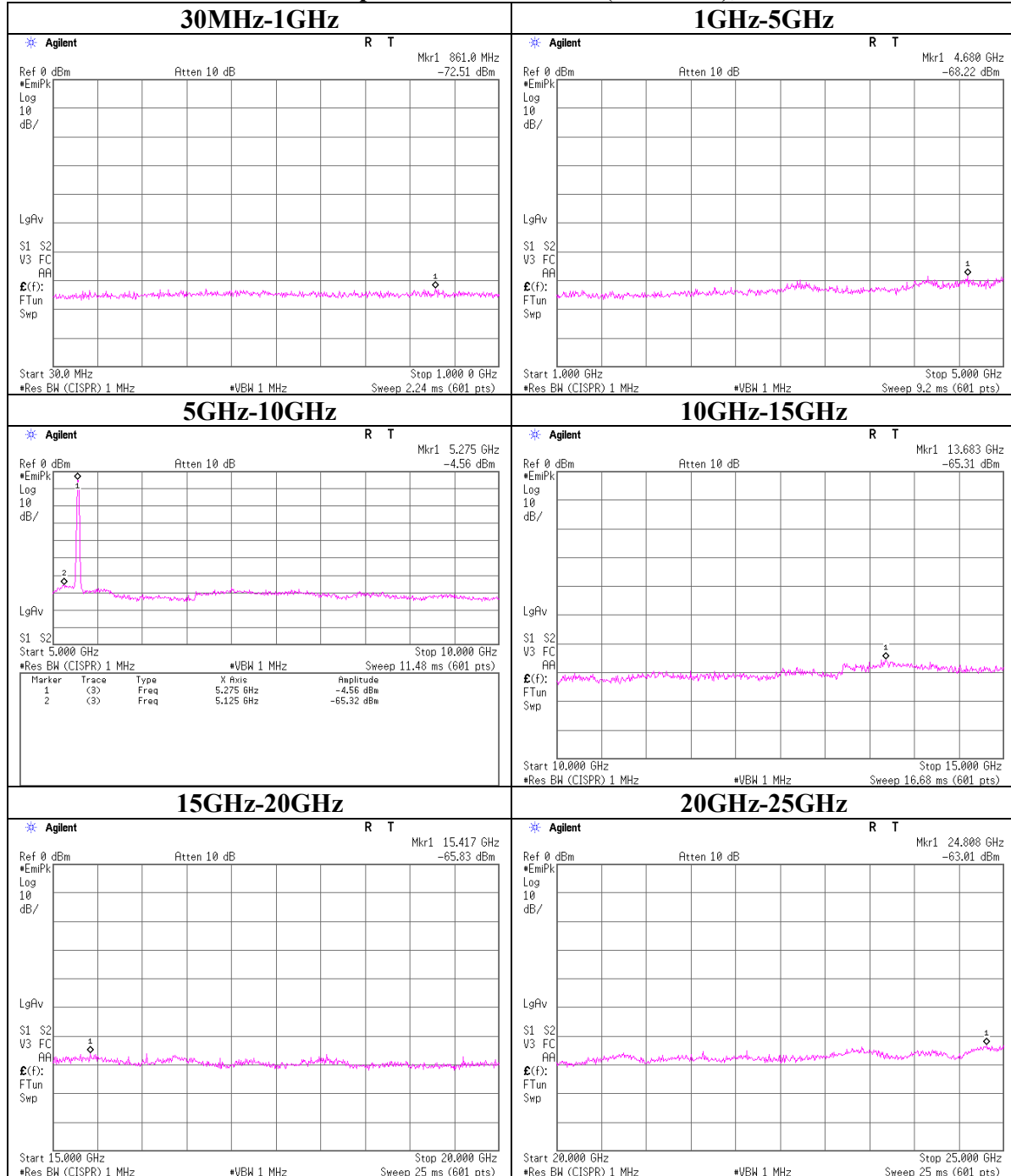


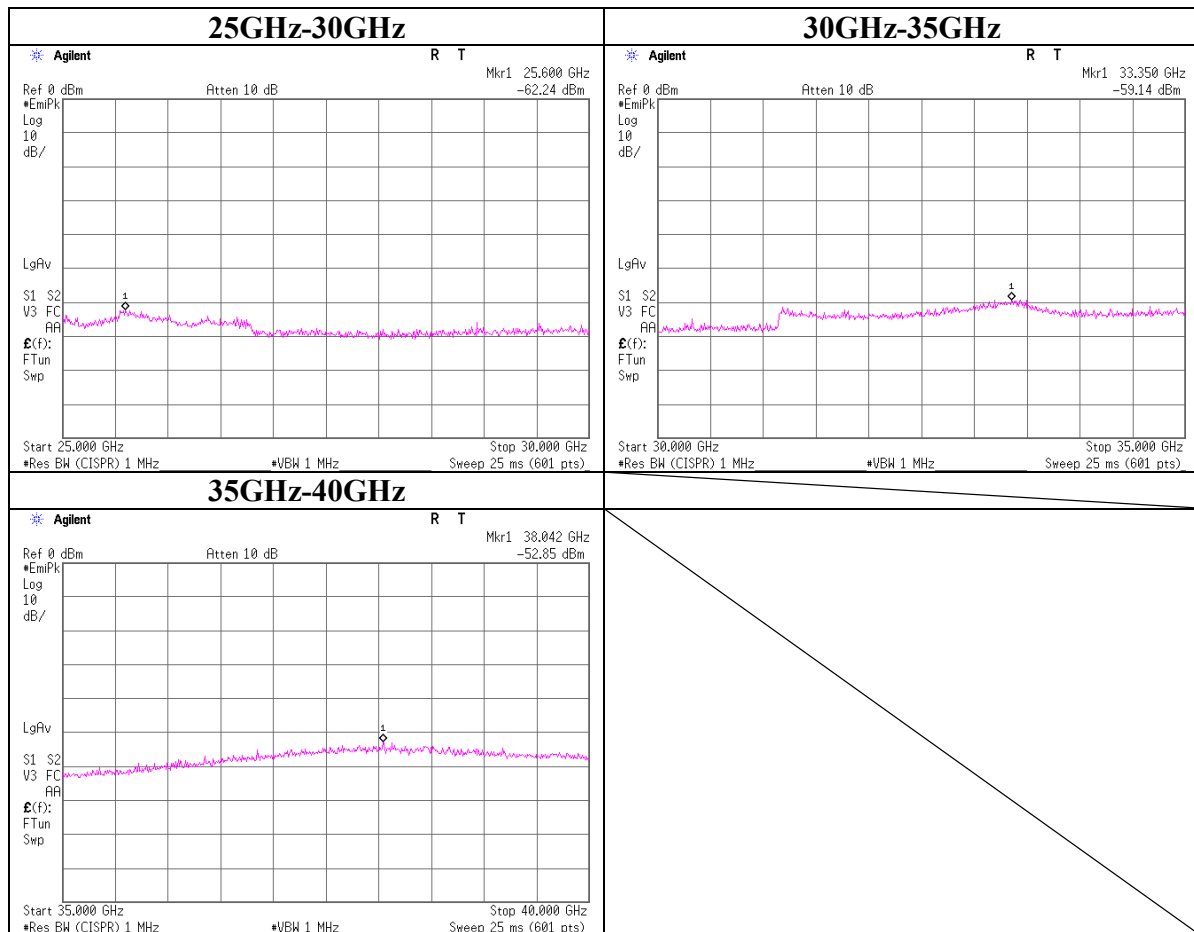
**Conducted Spurious Emission**  
**11a Tx 54Mbps Middle Band/ Lch(5260MHz), Antenna 3**





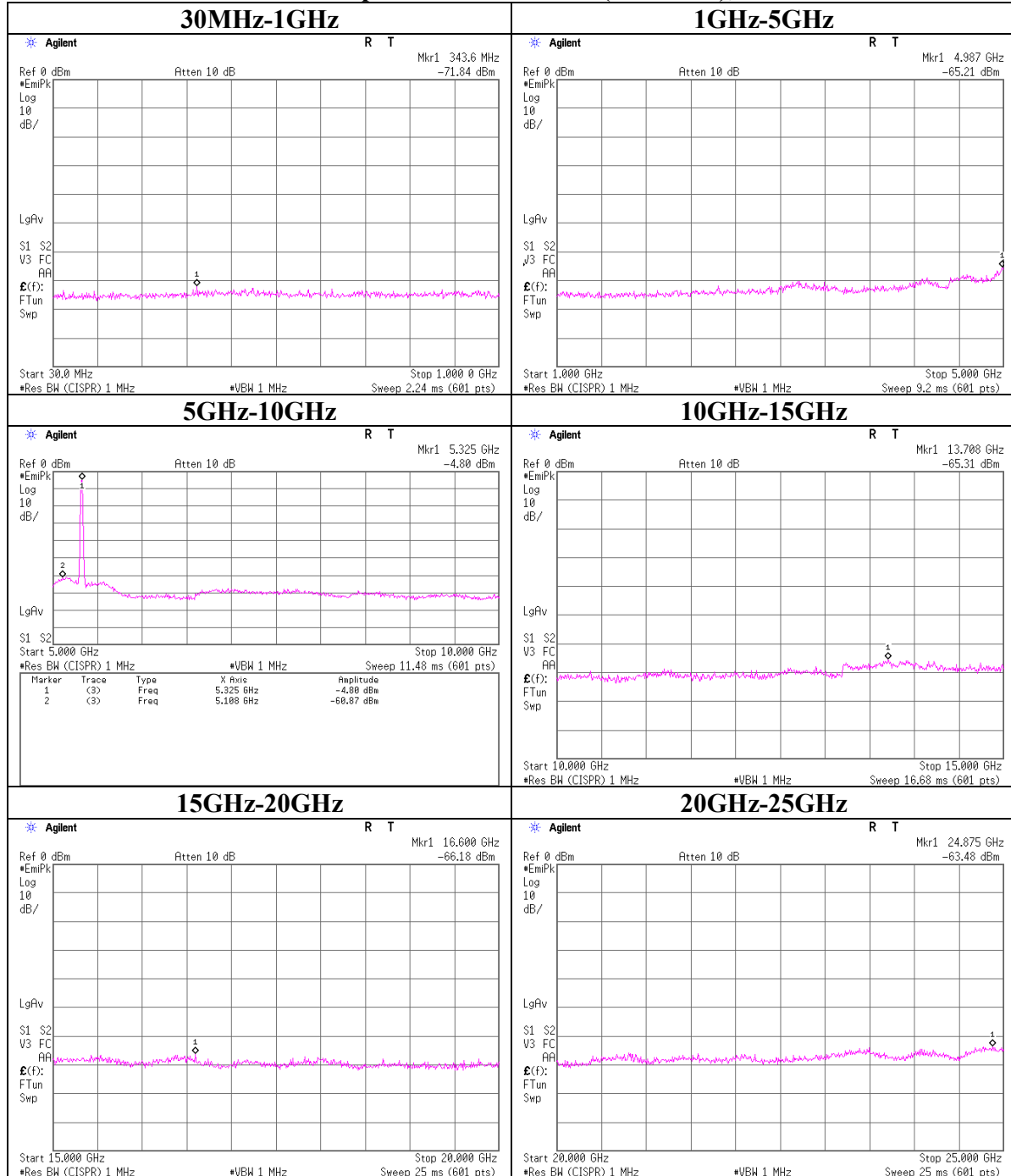
**Conducted Spurious Emission**  
**11a Tx 54Mbps Middle Band/ Mch(5280MHz), Antenna 3**

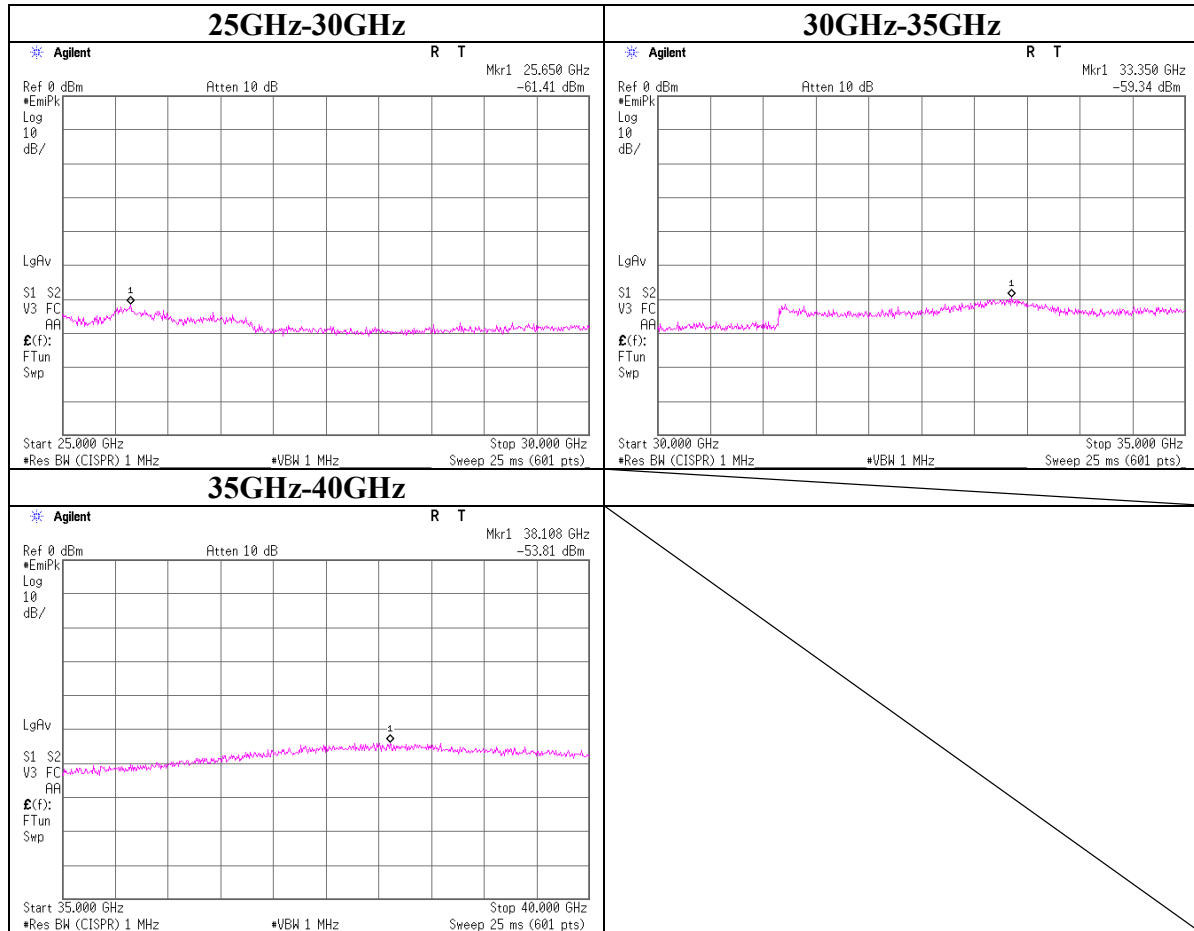




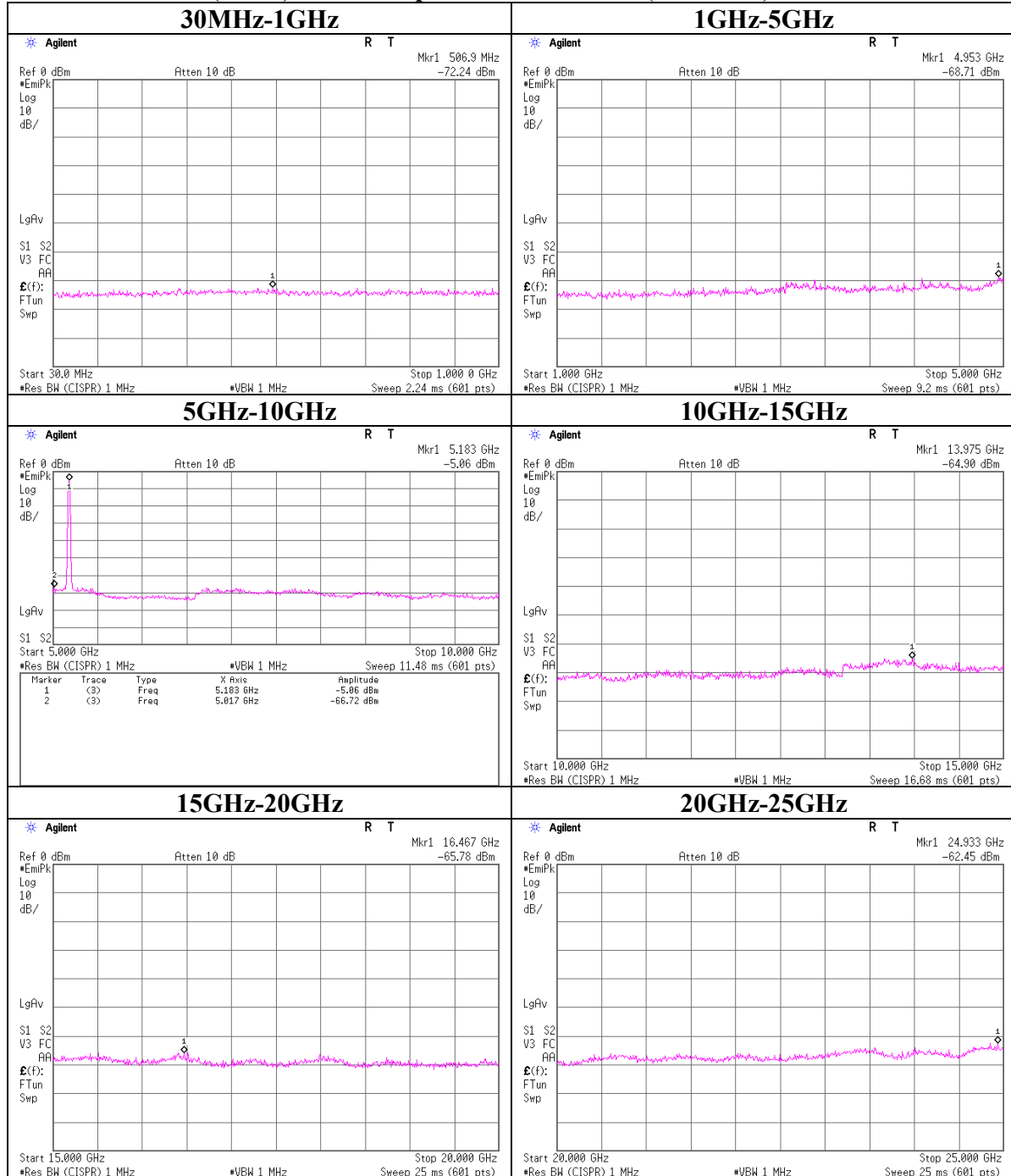


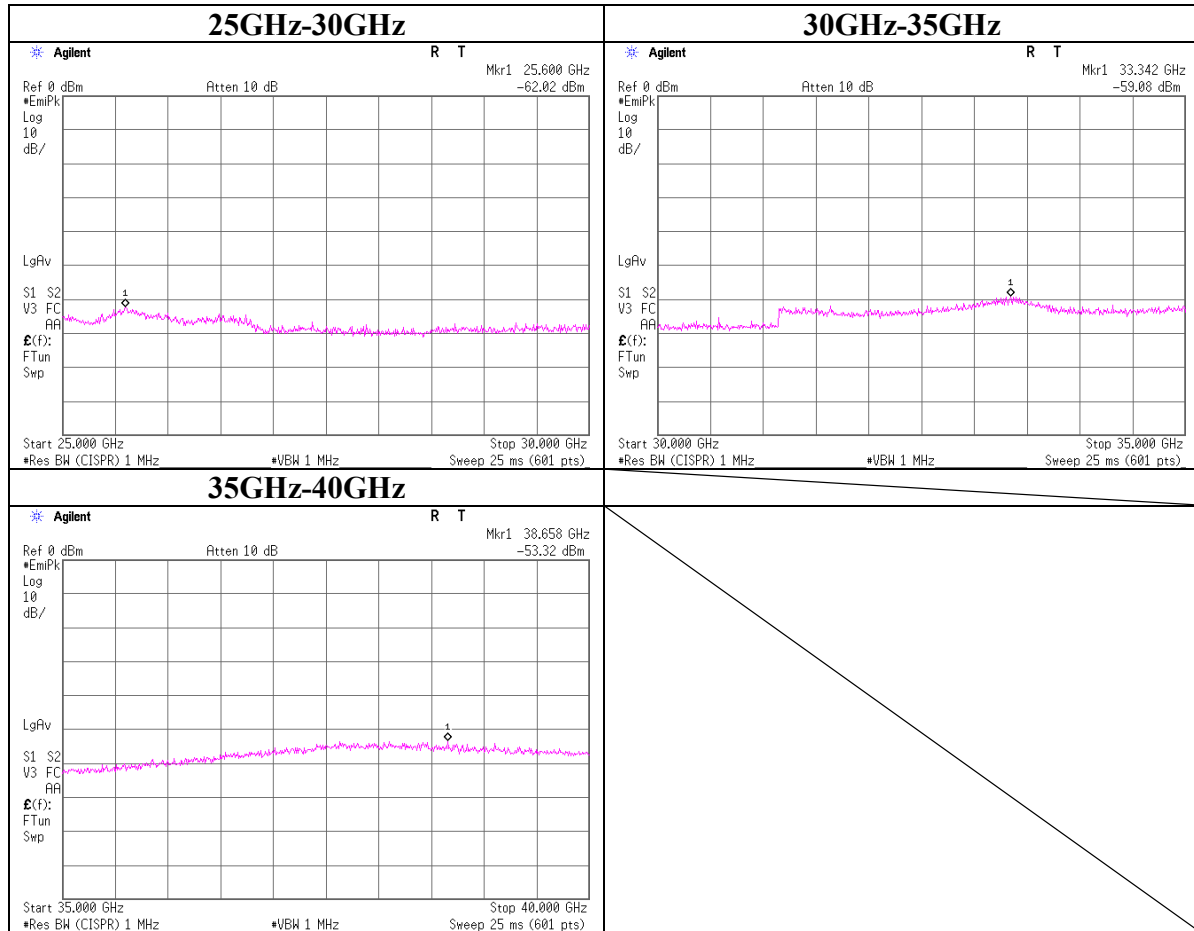
**Conducted Spurious Emission**  
**11a Tx 54Mbps Middle Band/ Hch(5320MHz), Antenna 3**



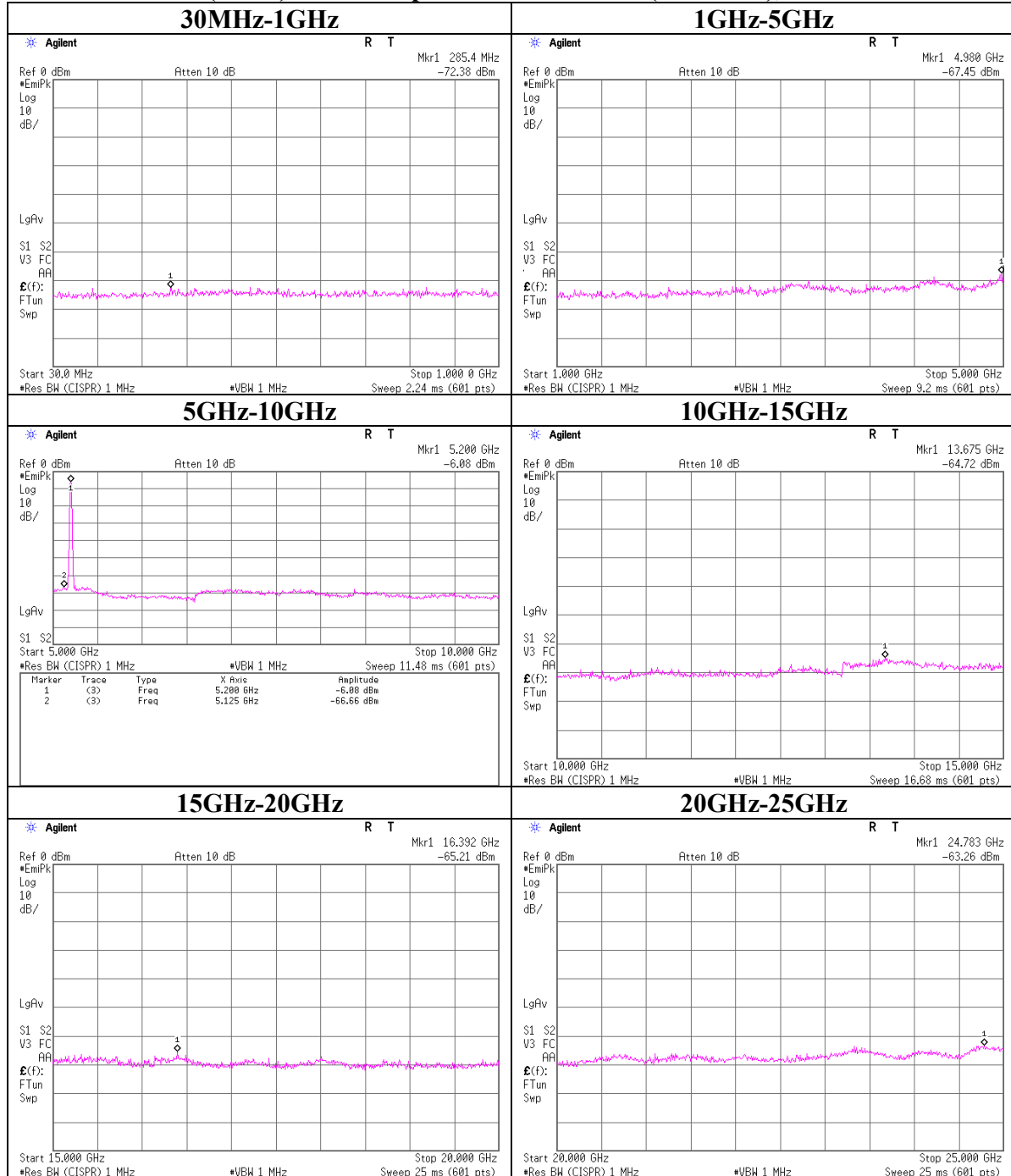


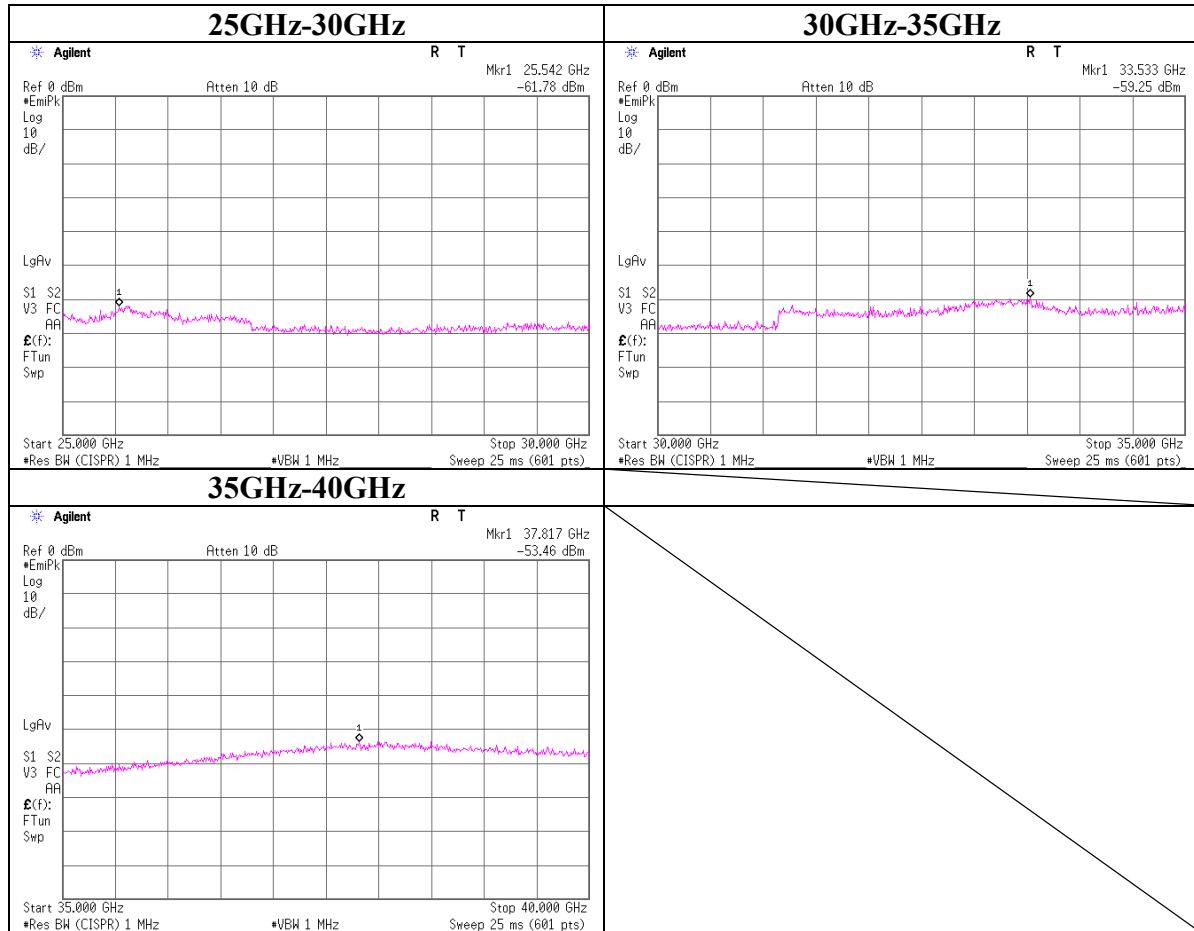
**Conducted Spurious Emission**  
**11n(20HT) Tx 130Mbps Lower Band/ Lch(5180MHz), Antenna 2**



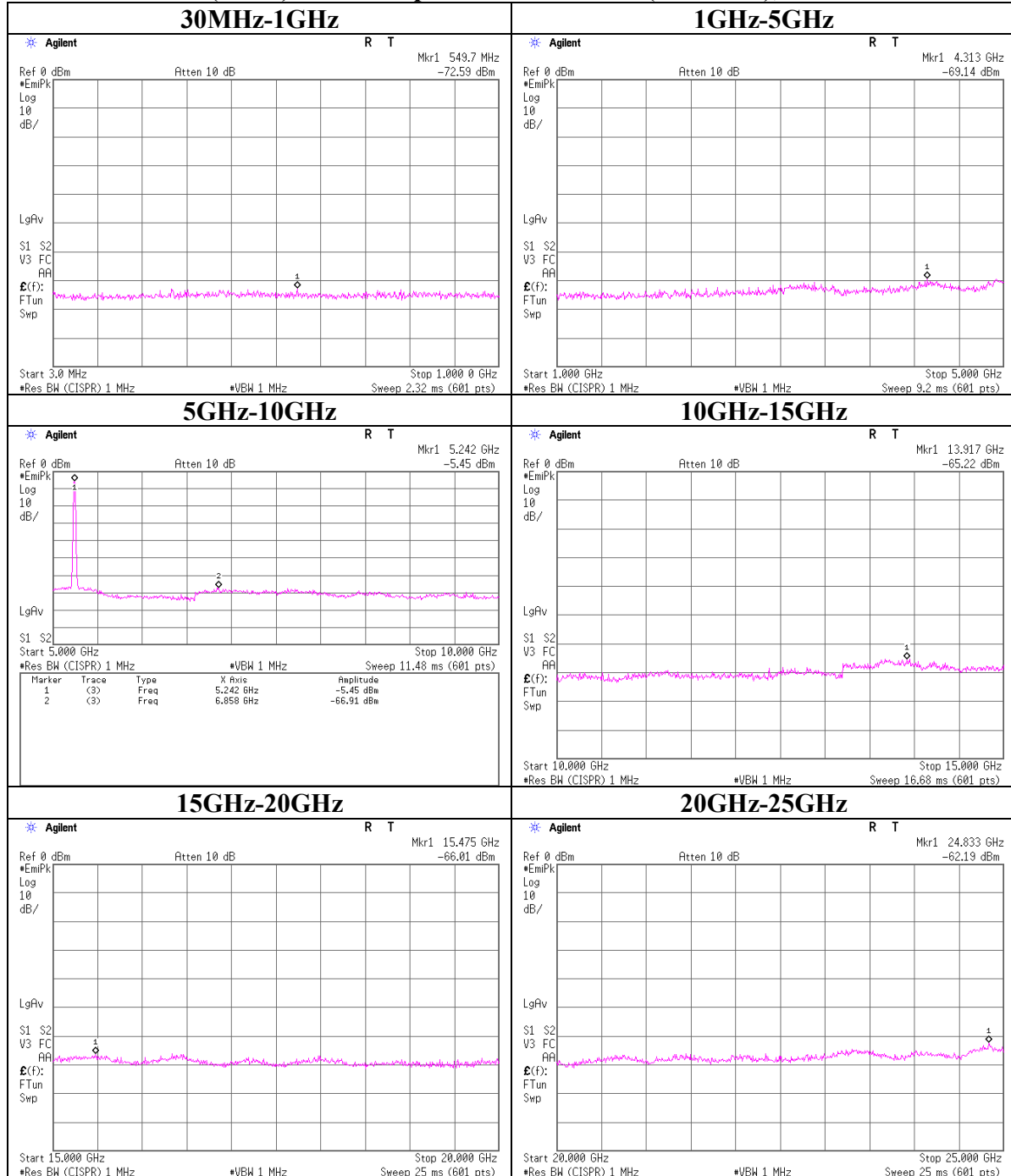


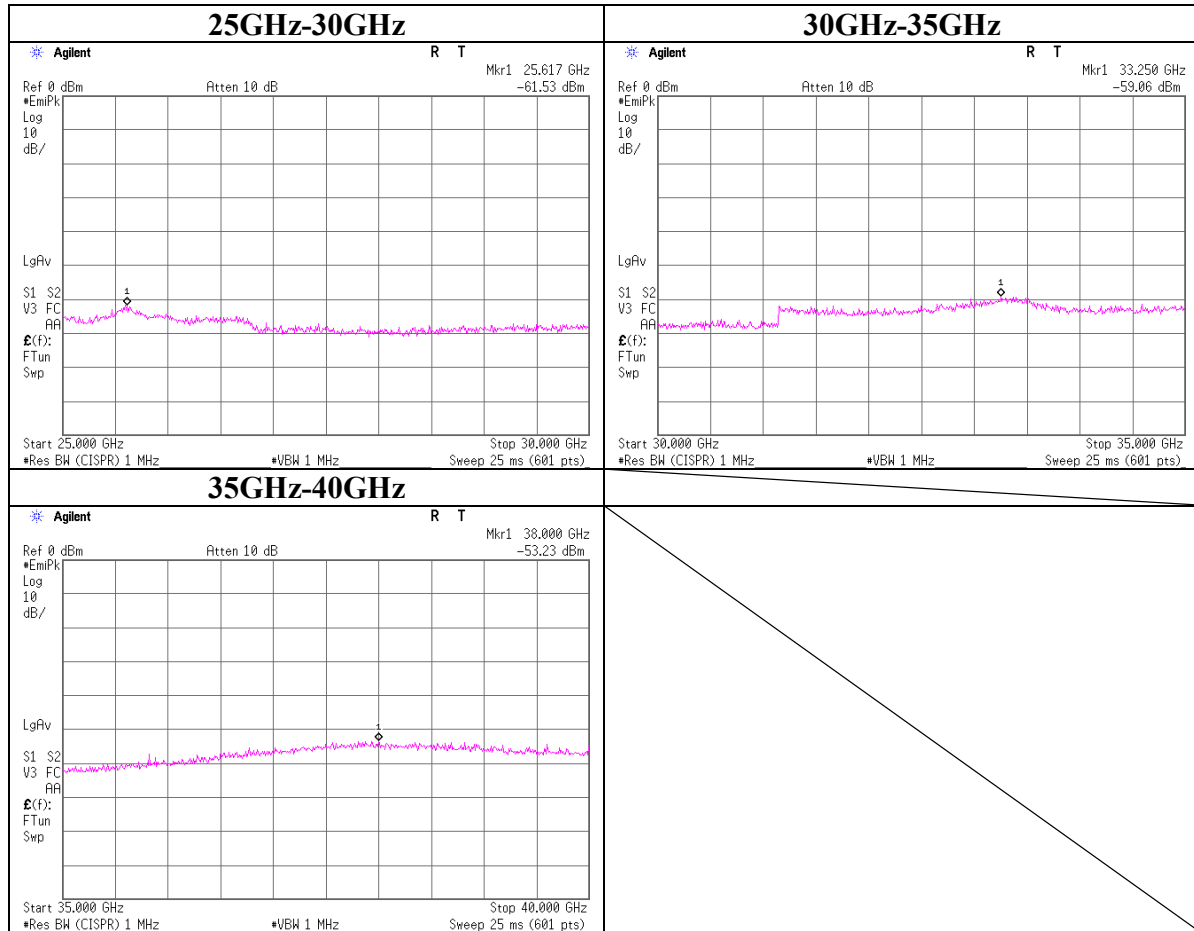
**Conducted Spurious Emission**  
**11n(20HT) Tx 130Mbps Lower Band/ Mch(5200MHz), Antenna 2**





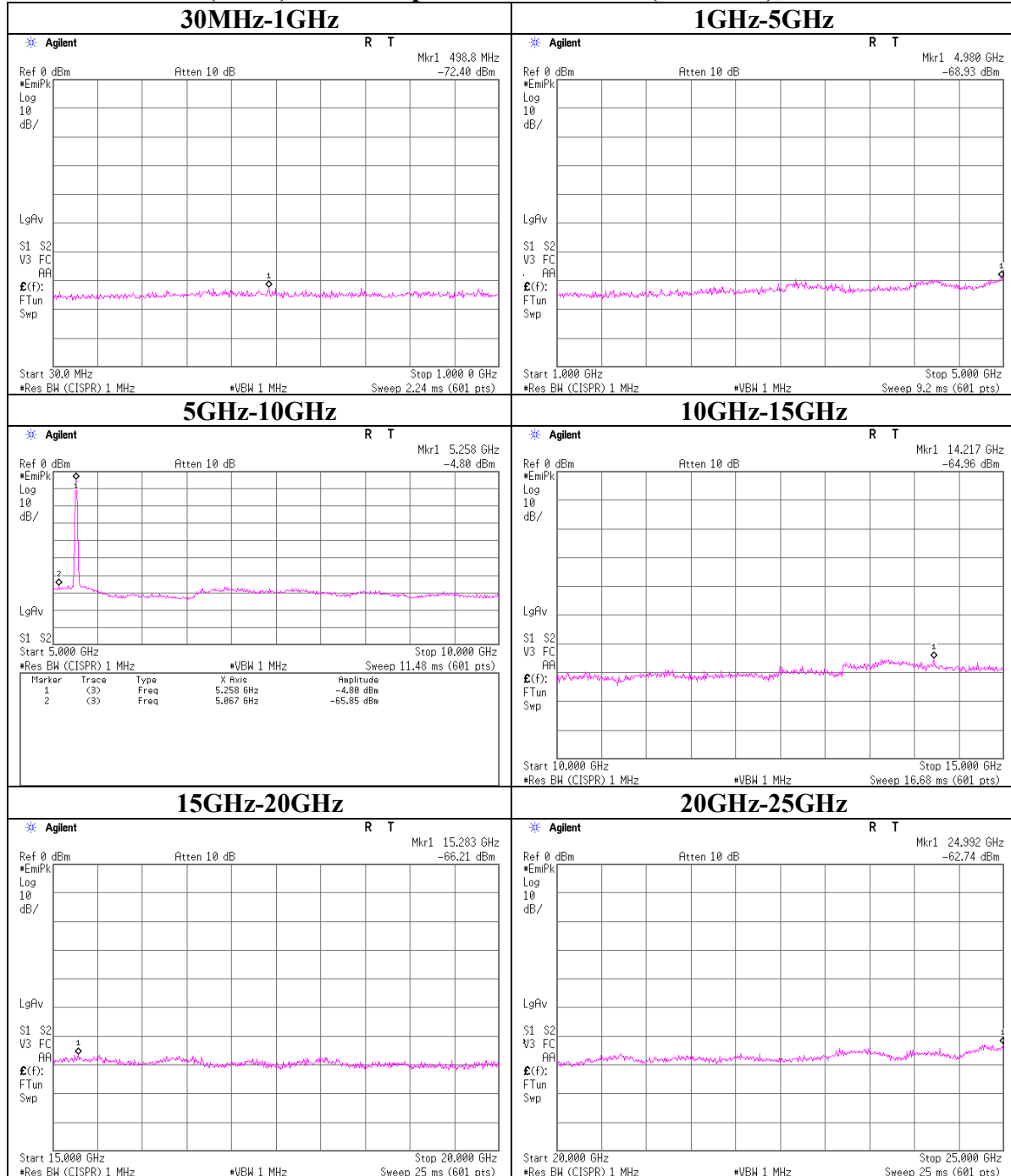
**Conducted Spurious Emission**  
**11n(20HT) Tx 130Mbps Lower Band/ Hch(5240MHz), Antenna 2**

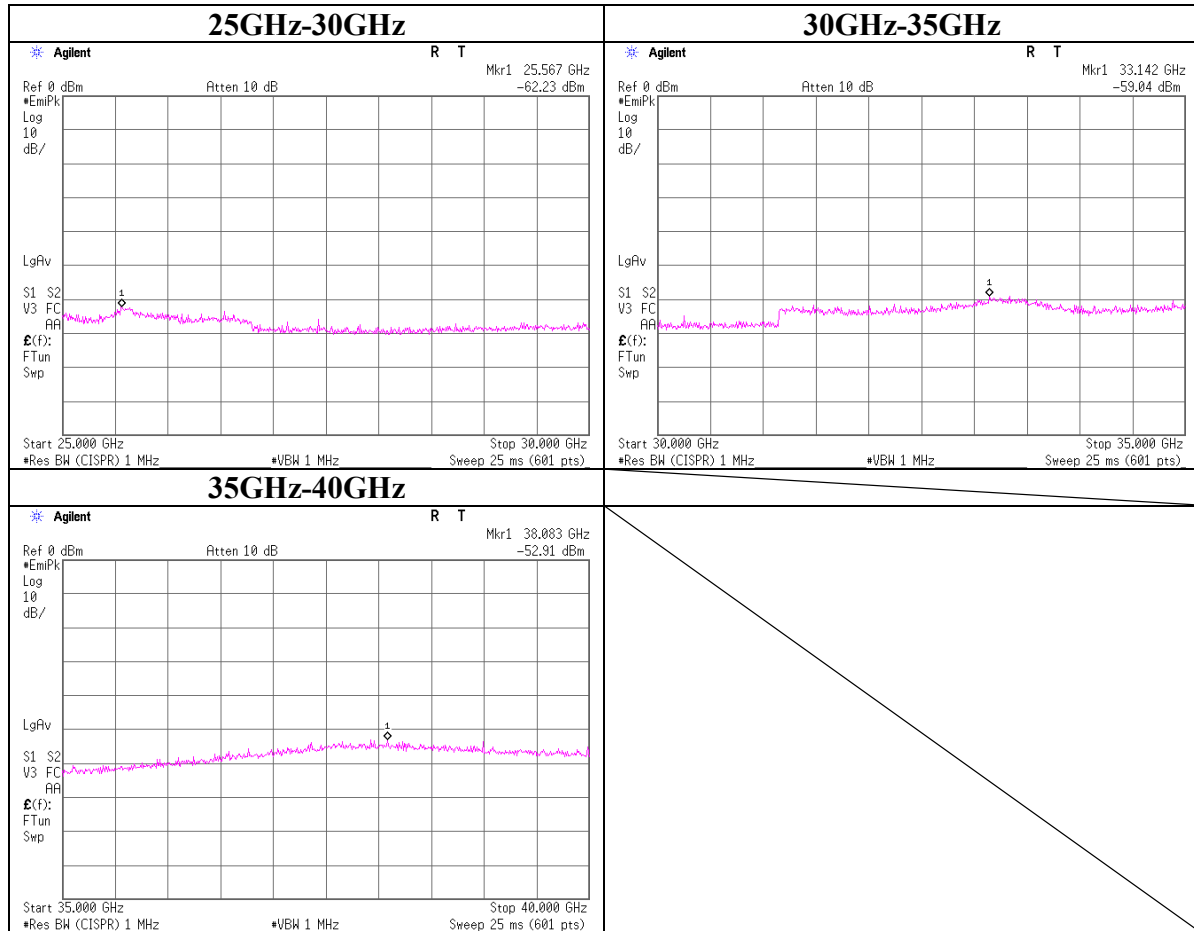




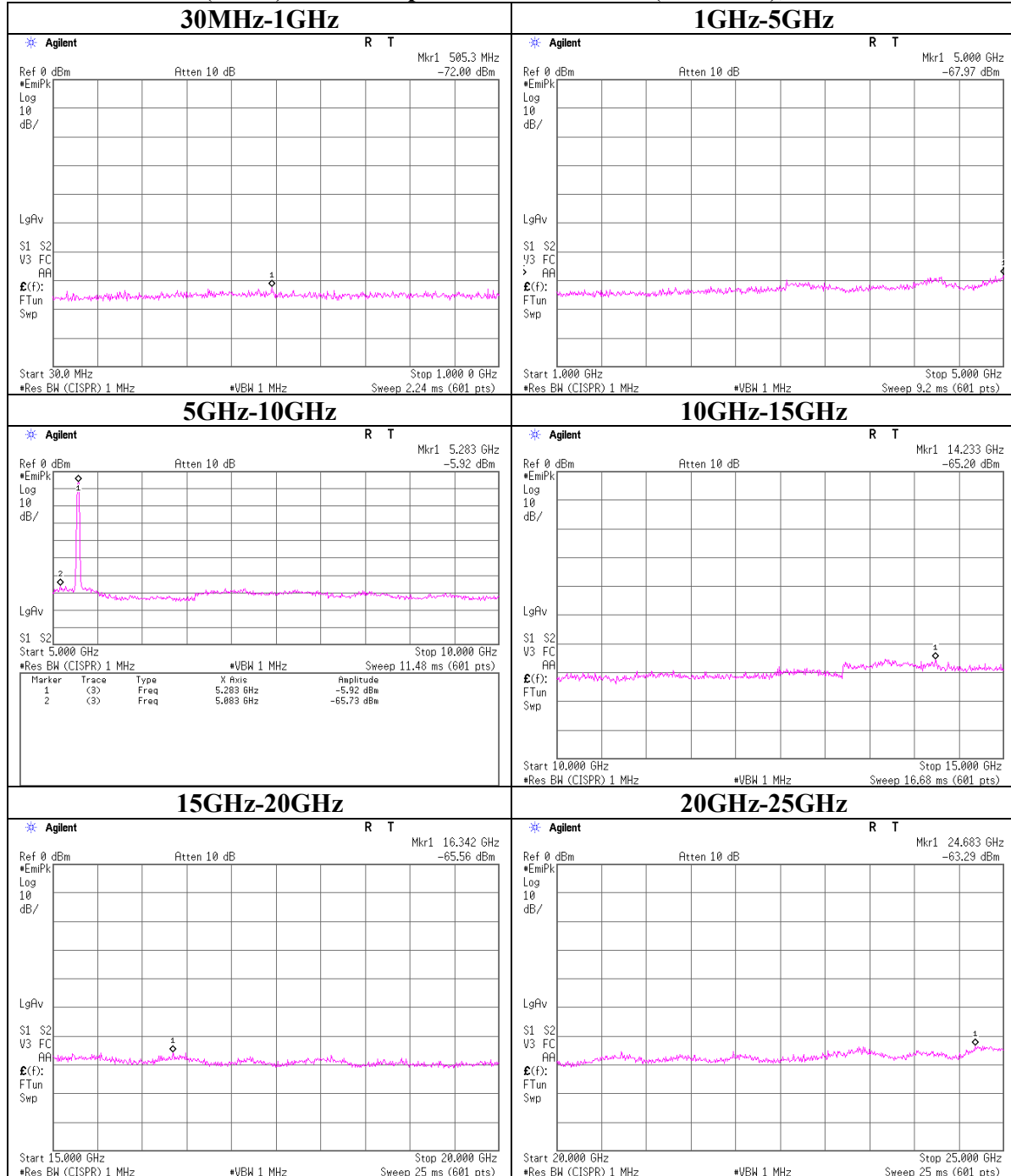


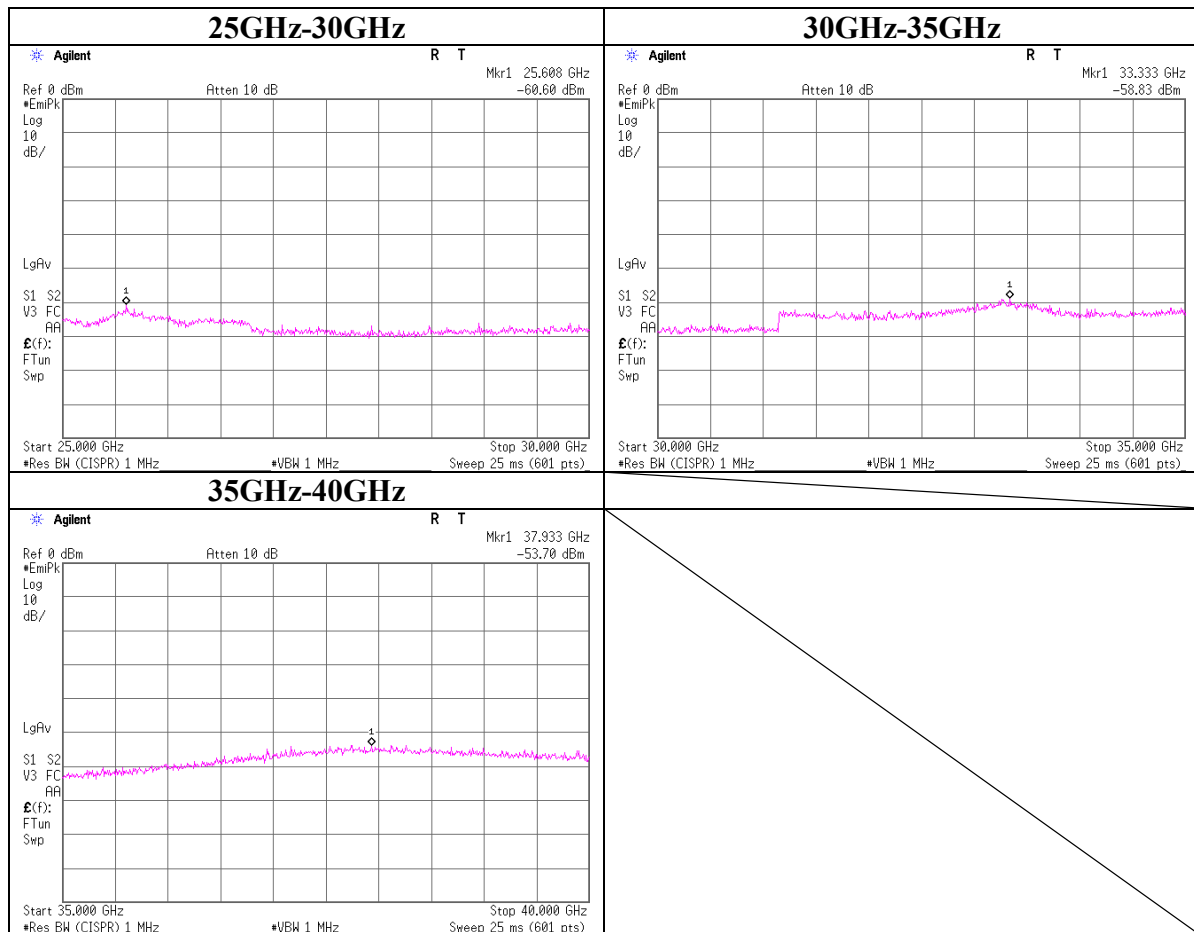
**Conducted Spurious Emission**  
**11n(20HT) Tx 130Mbps Middle Band/ Lch(5260MHz), Antenna 2**



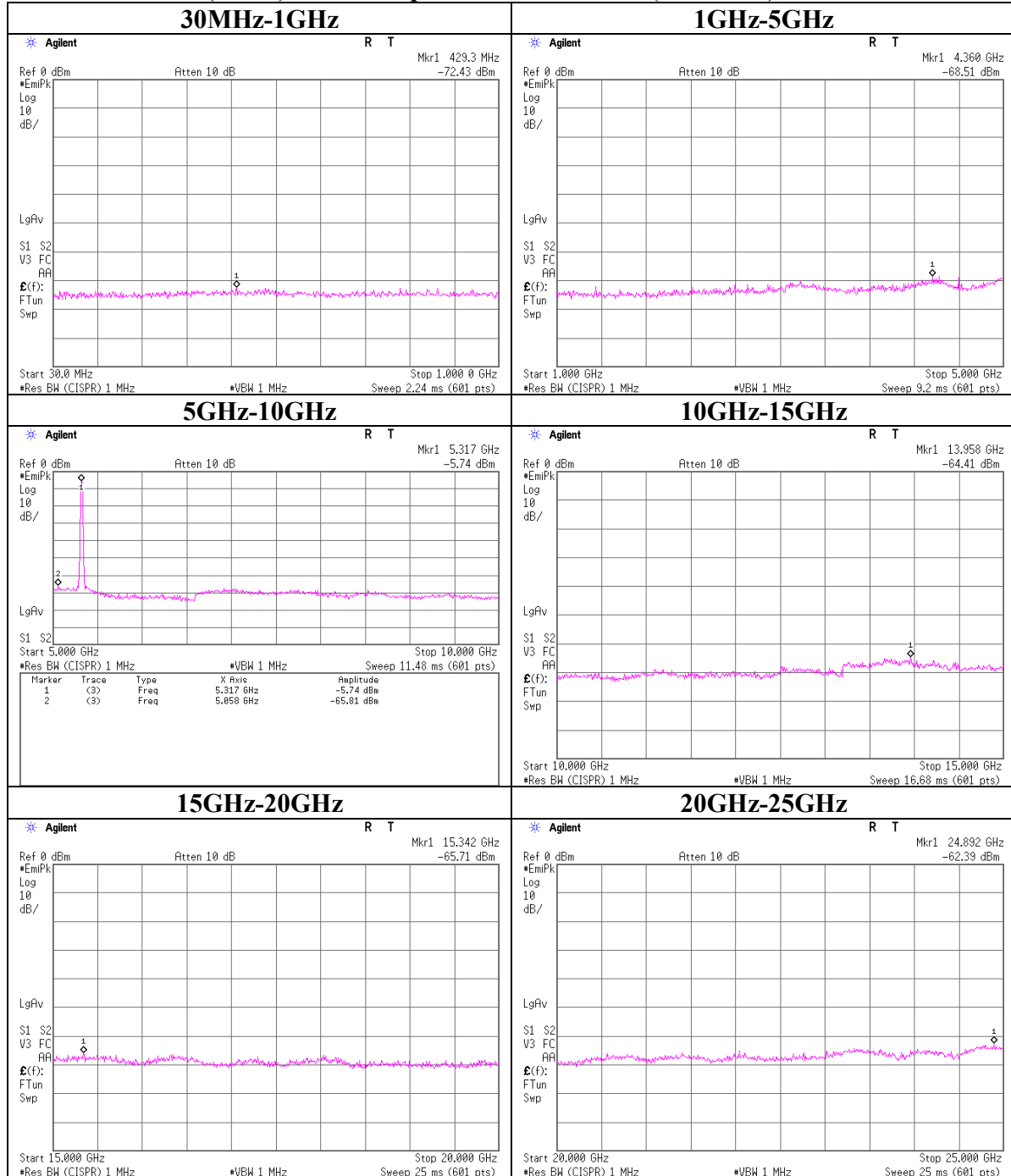


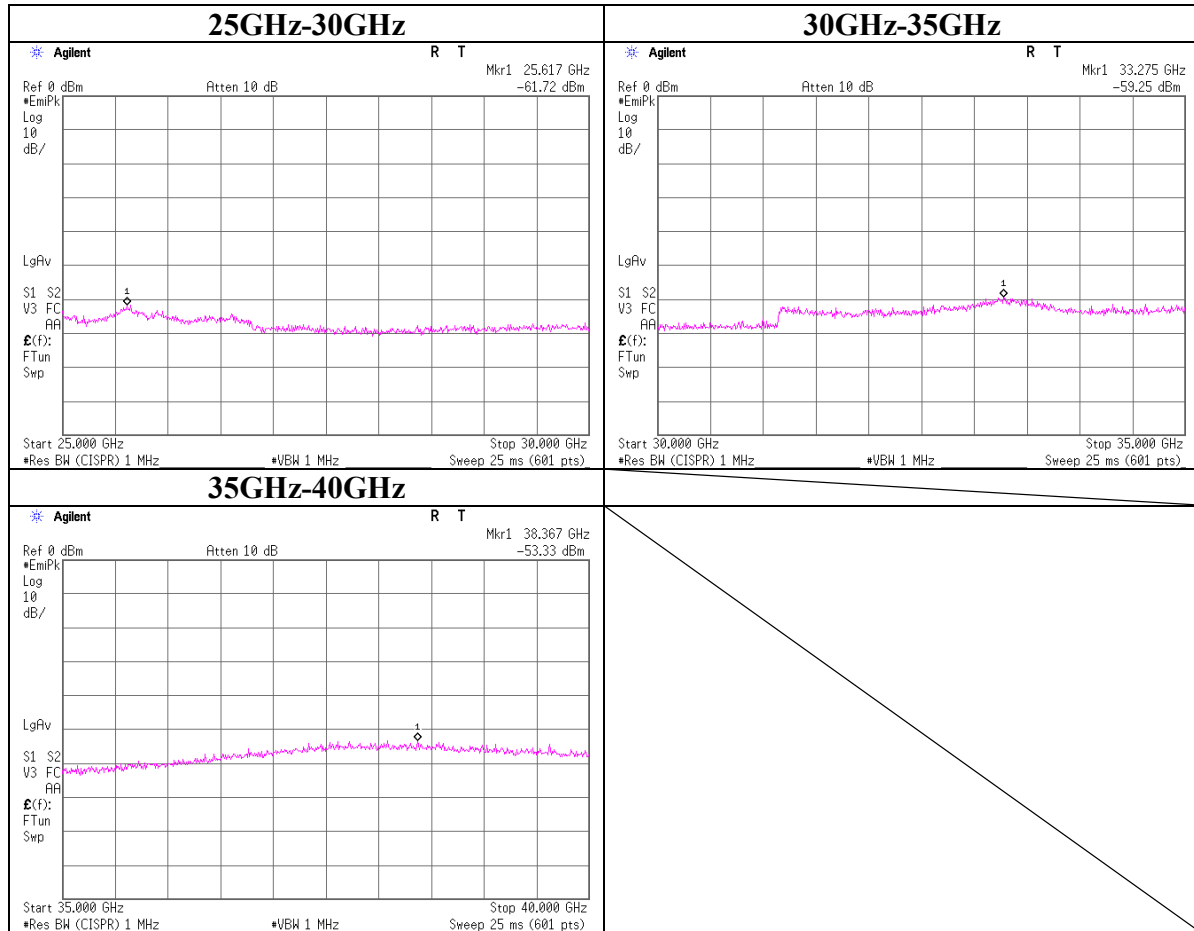
**Conducted Spurious Emission**  
**11n(20HT) Tx 130Mbps Middle Band/ Mch(5280MHz), Antenna 2**



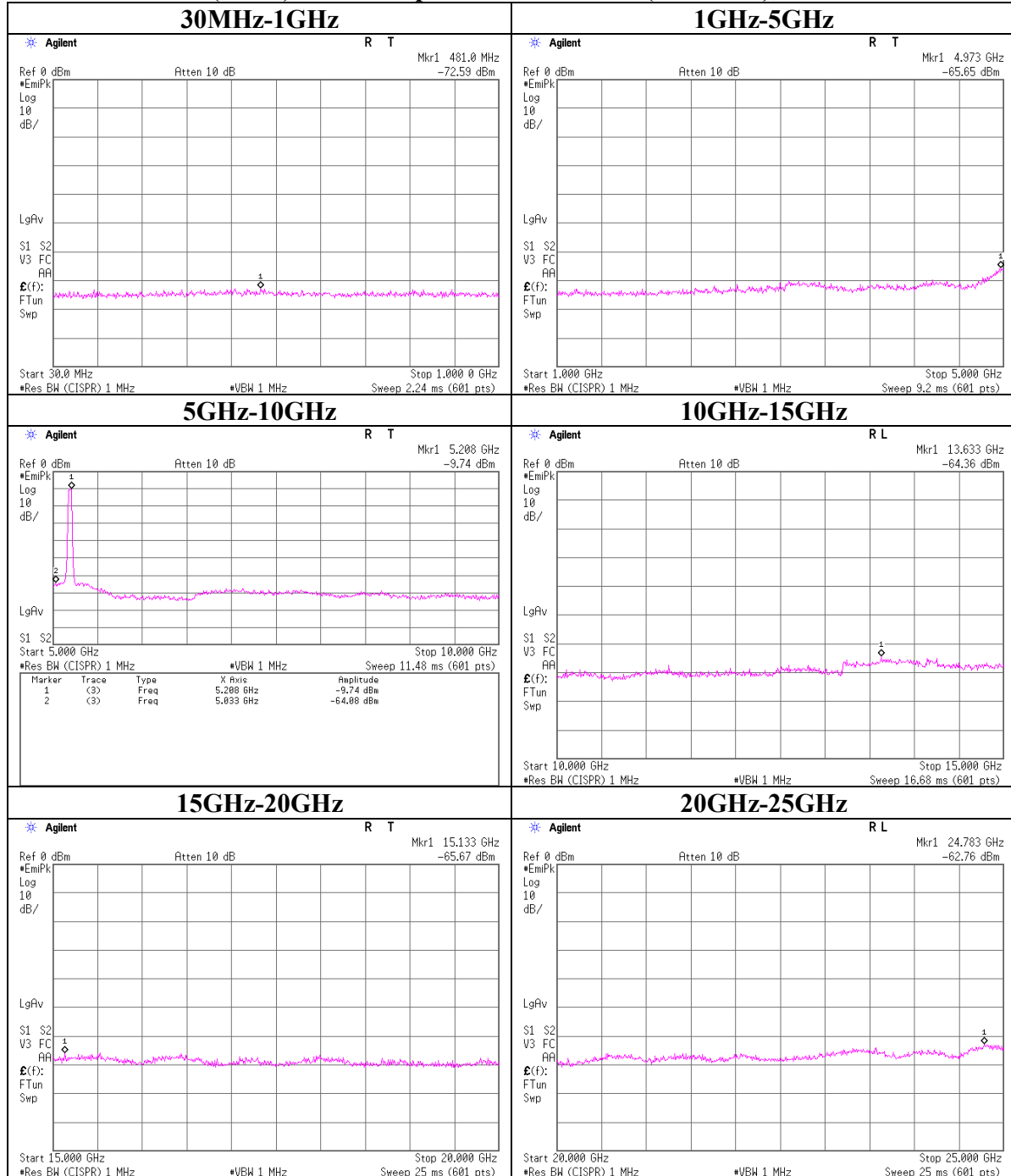


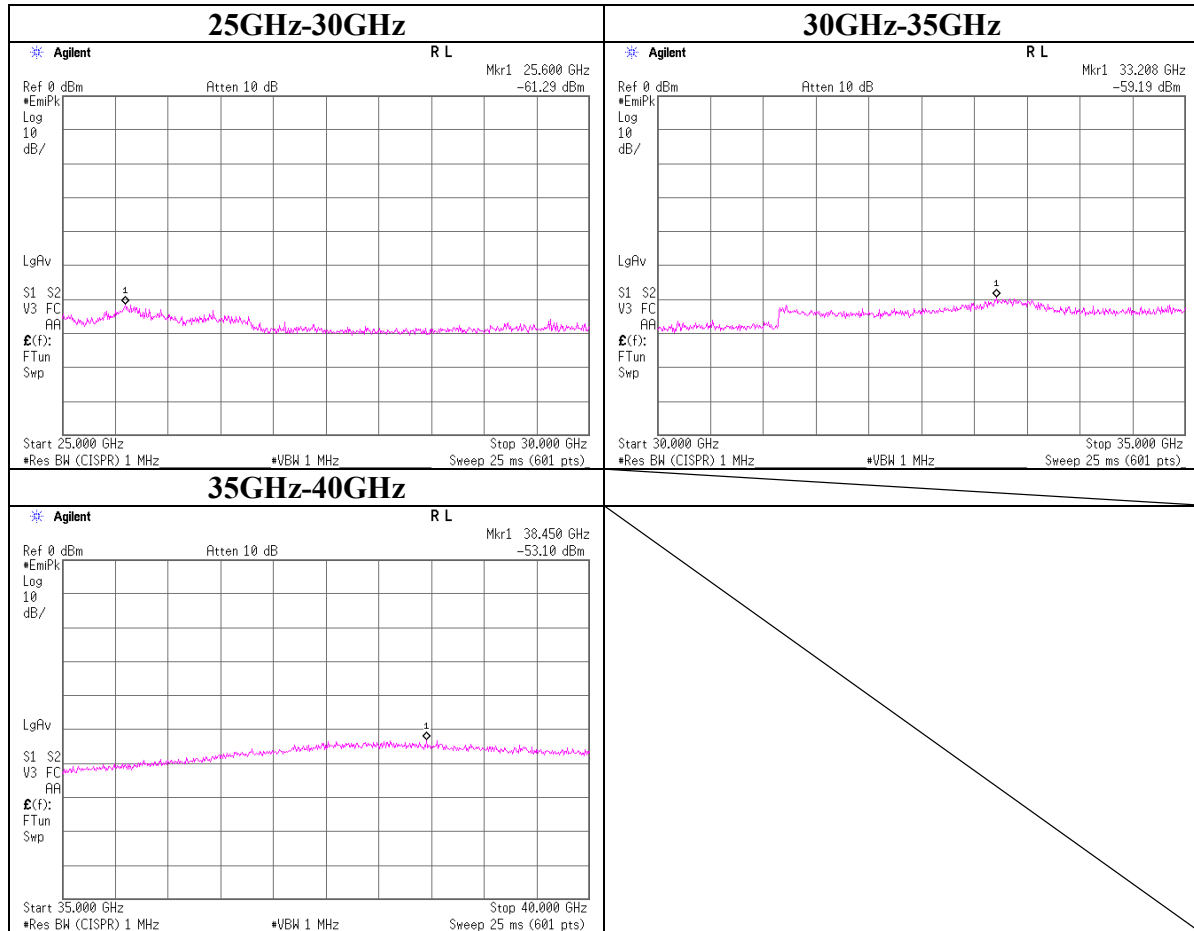
**Conducted Spurious Emission**  
**11n(20HT) Tx 130Mbps Middle Band/ Hch(5320MHz), Antenna 2**





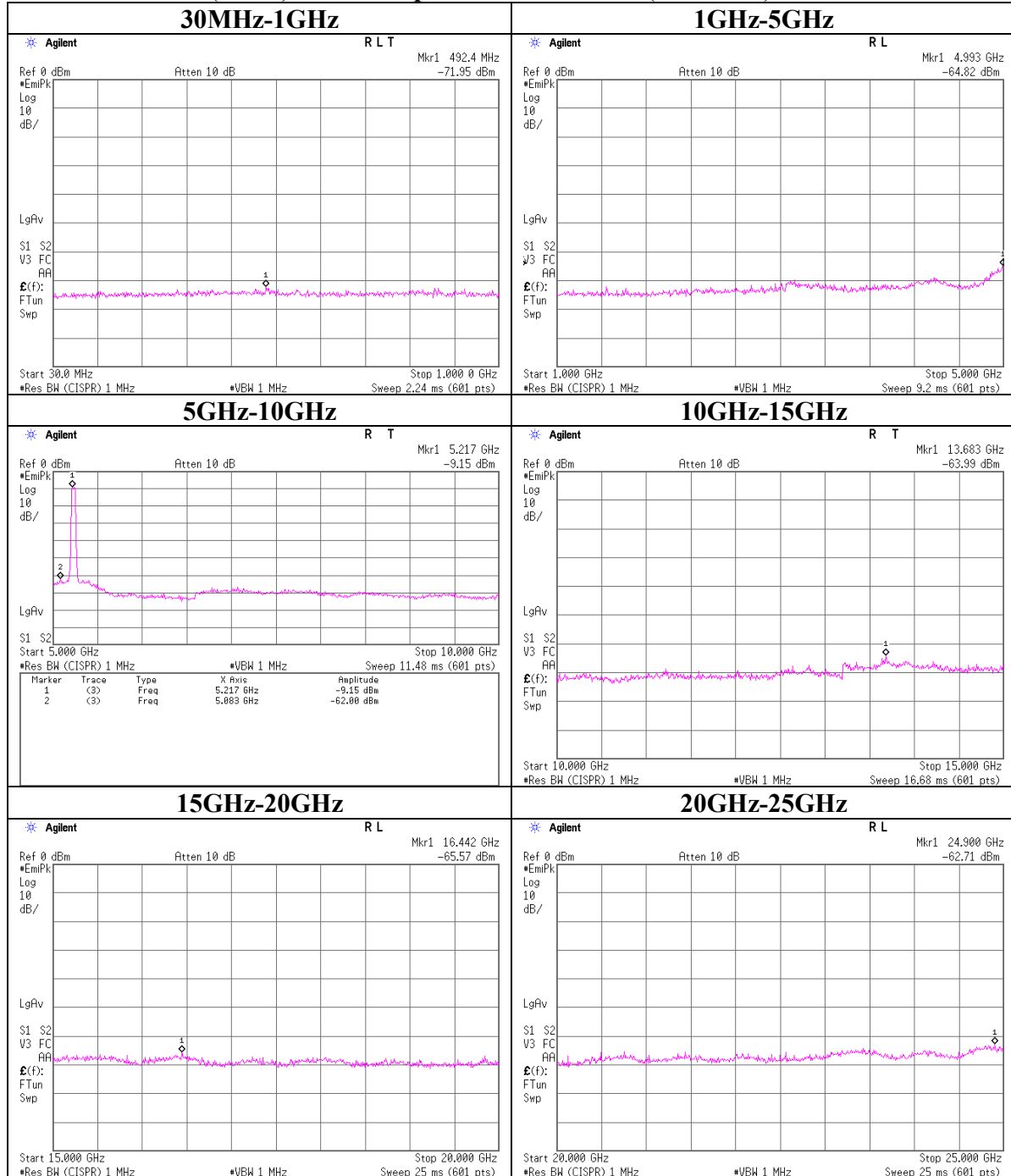
**Conducted Spurious Emission**  
**11n(40HT) Tx 270Mbps Lower Band/ Lch(5190MHz), Antenna 2**

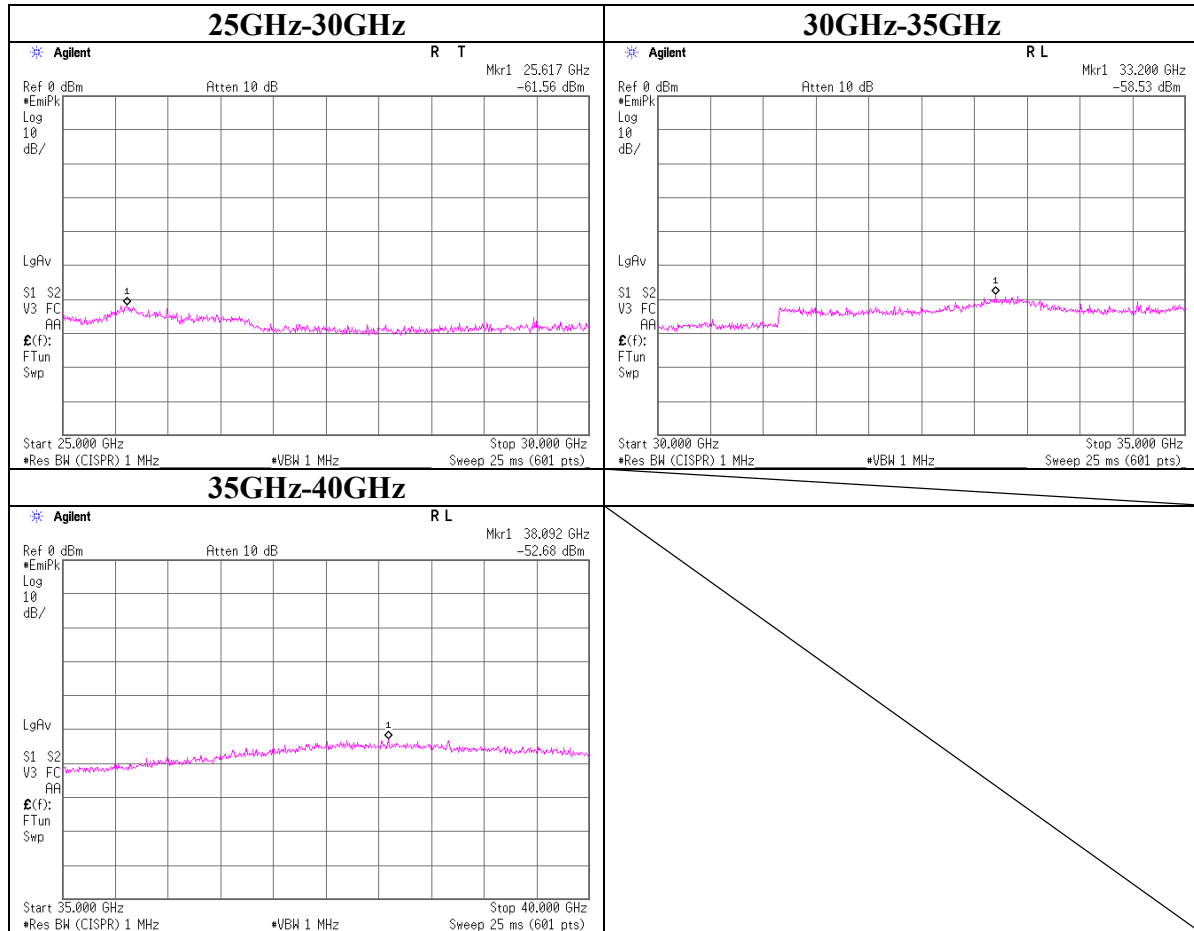




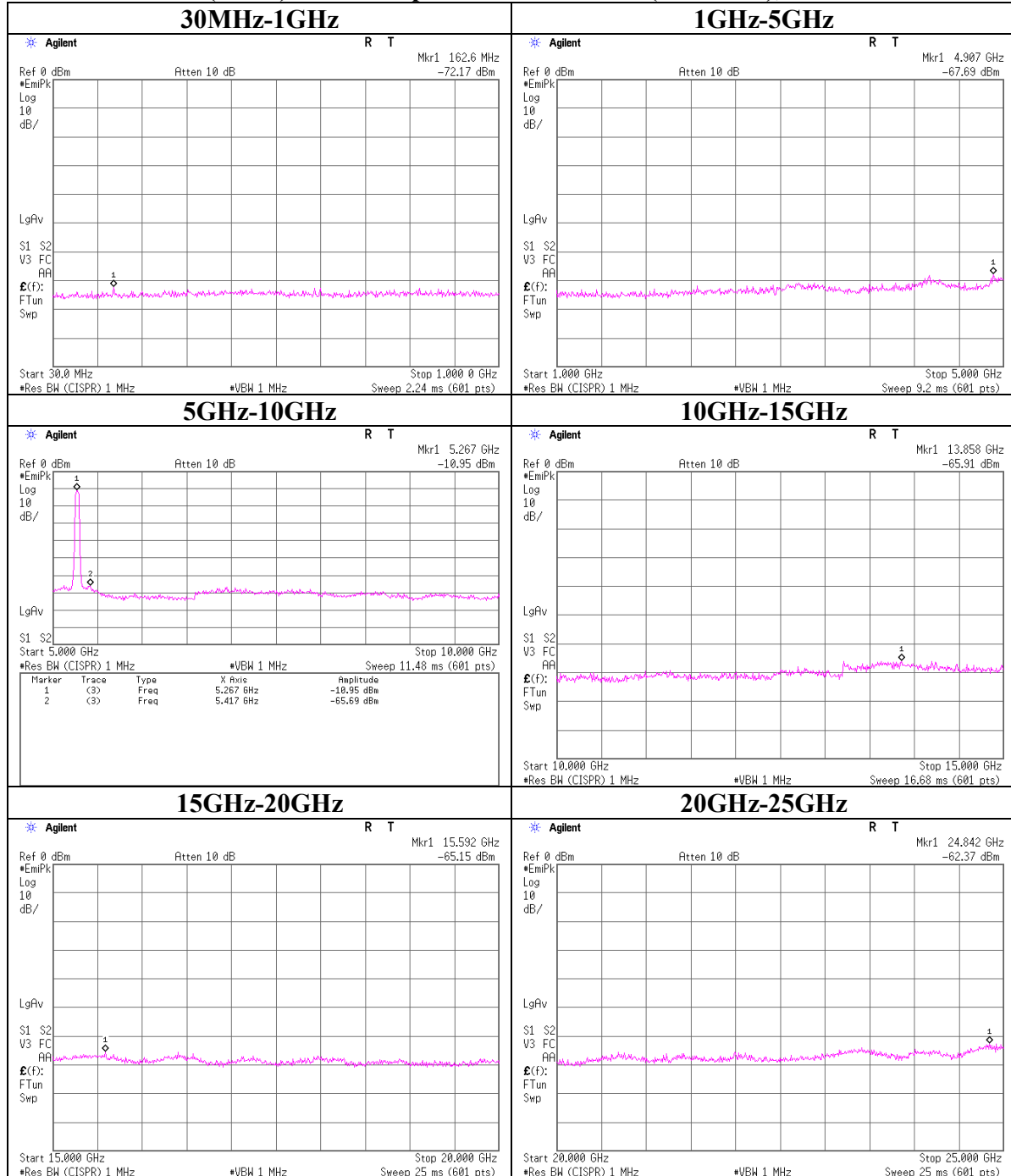


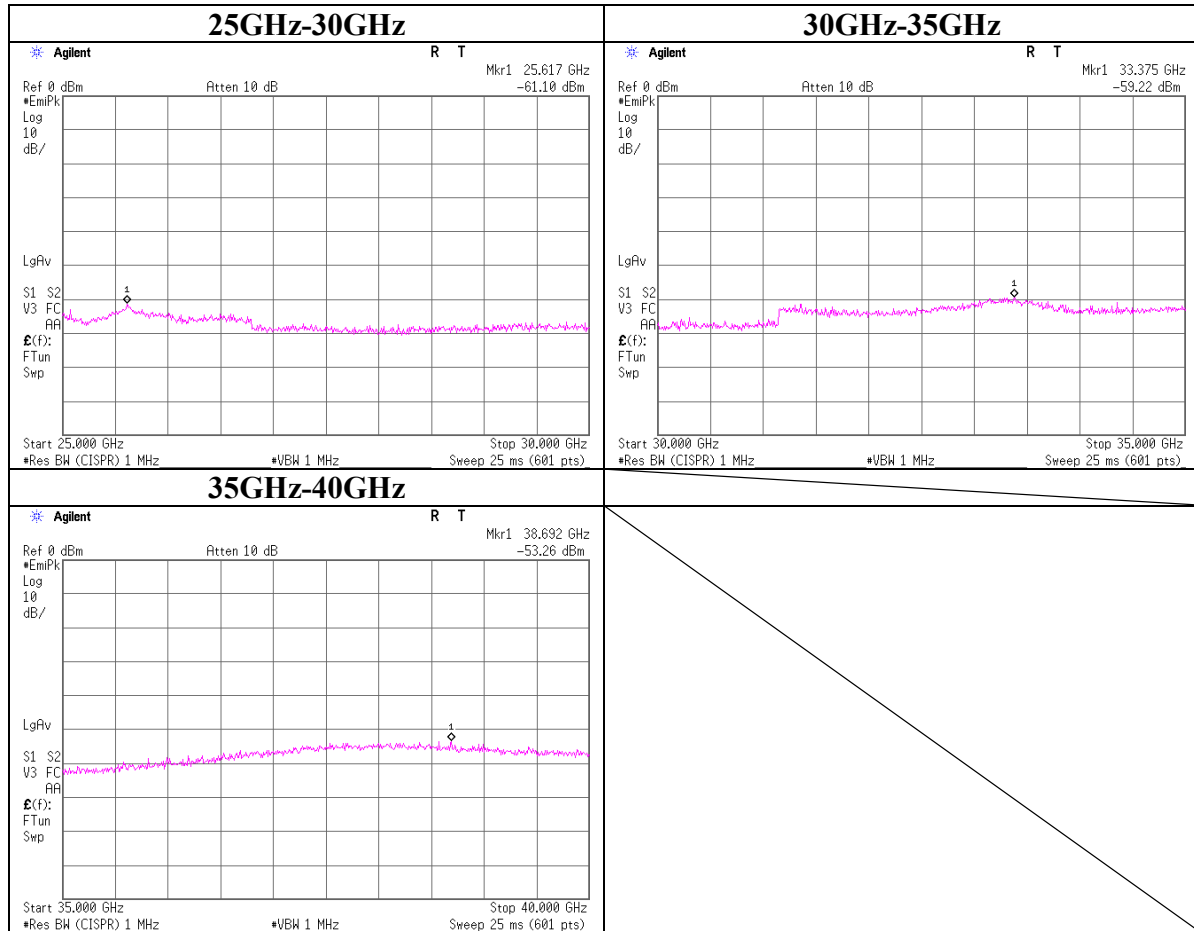
**Conducted Spurious Emission**  
**11n(40HT) Tx 270Mbps Lower Band/ Hch(5230MHz), Antenna 2**



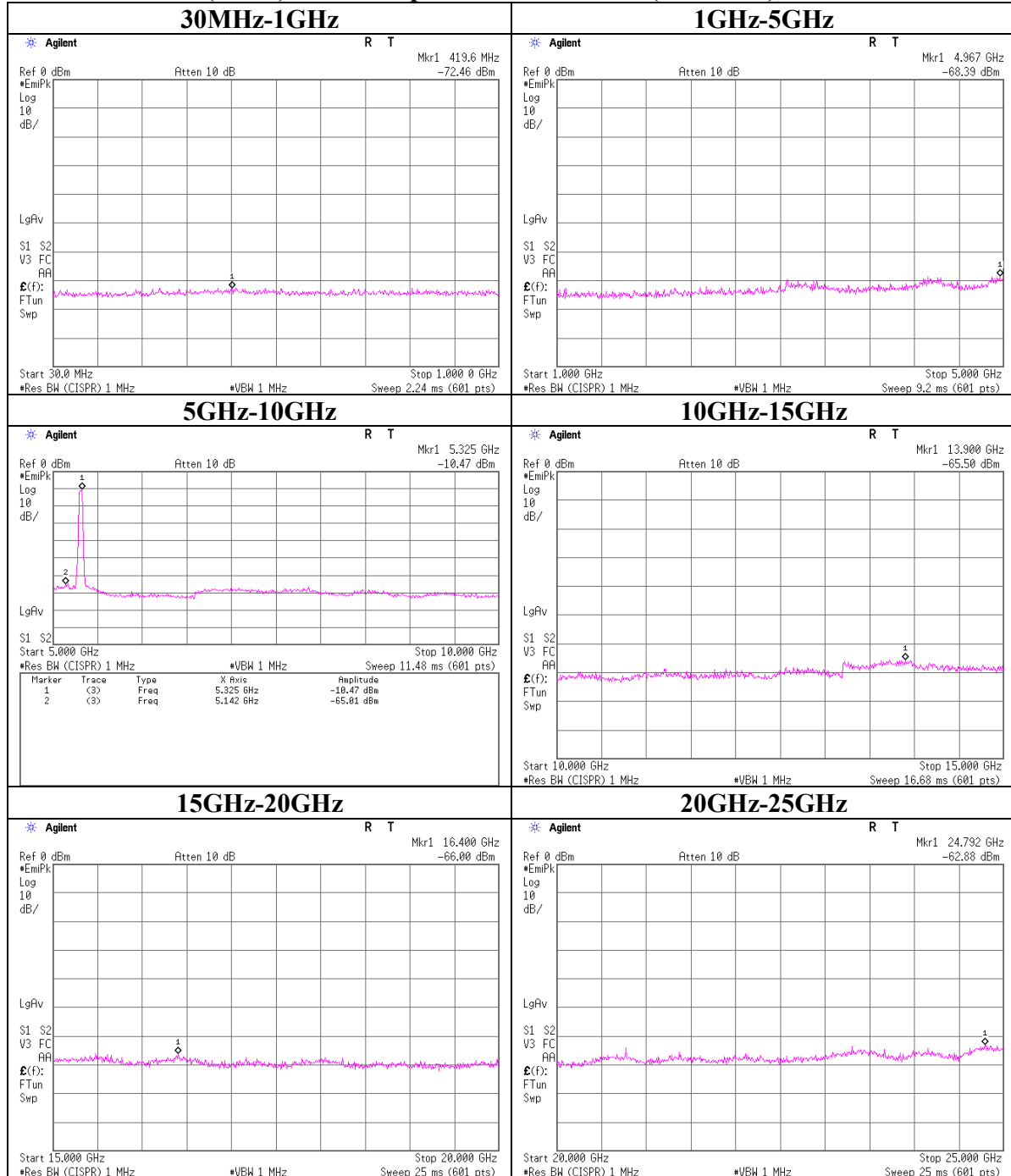


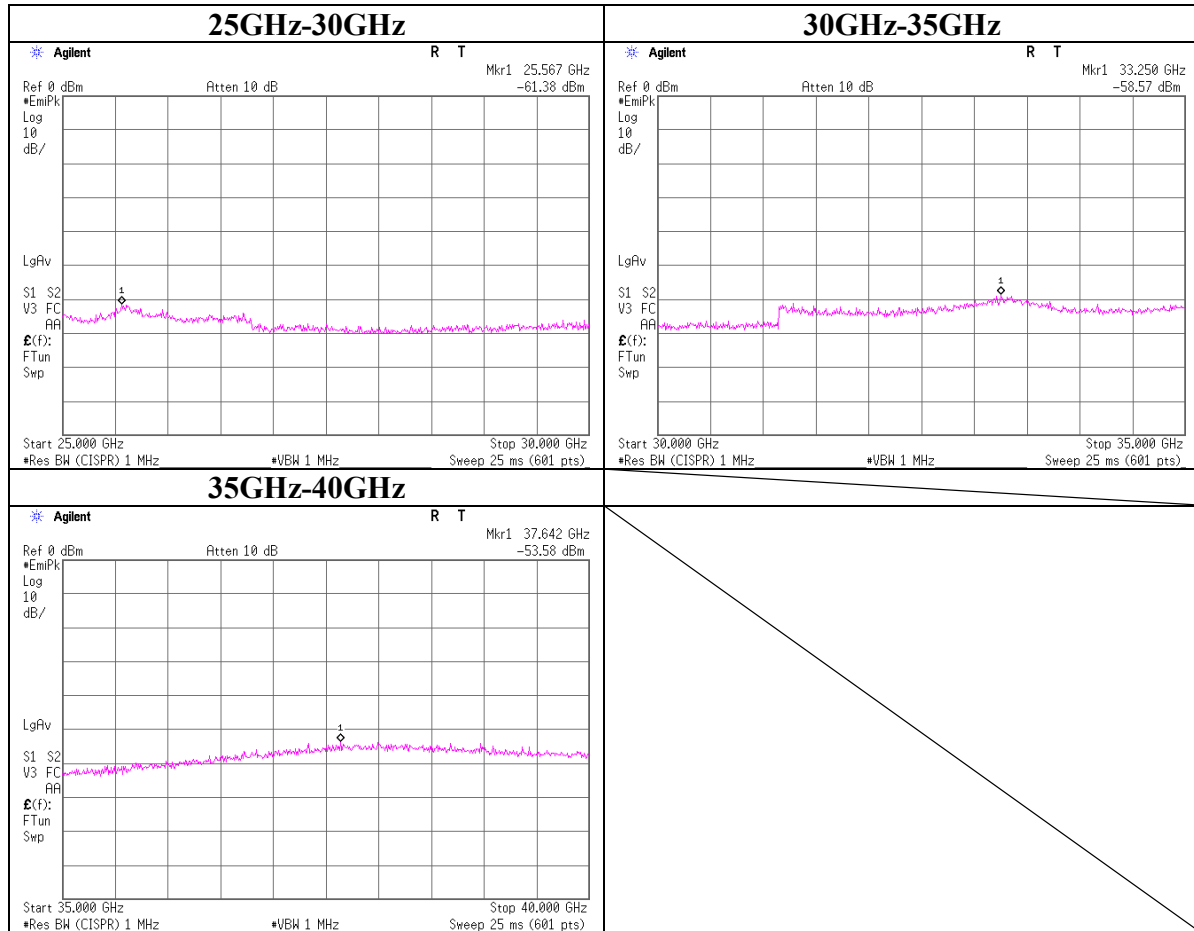
**Conducted Spurious Emission**  
**11n(40HT) Tx 270Mbps Middle Band/ Lch(5270MHz), Antenna 2**



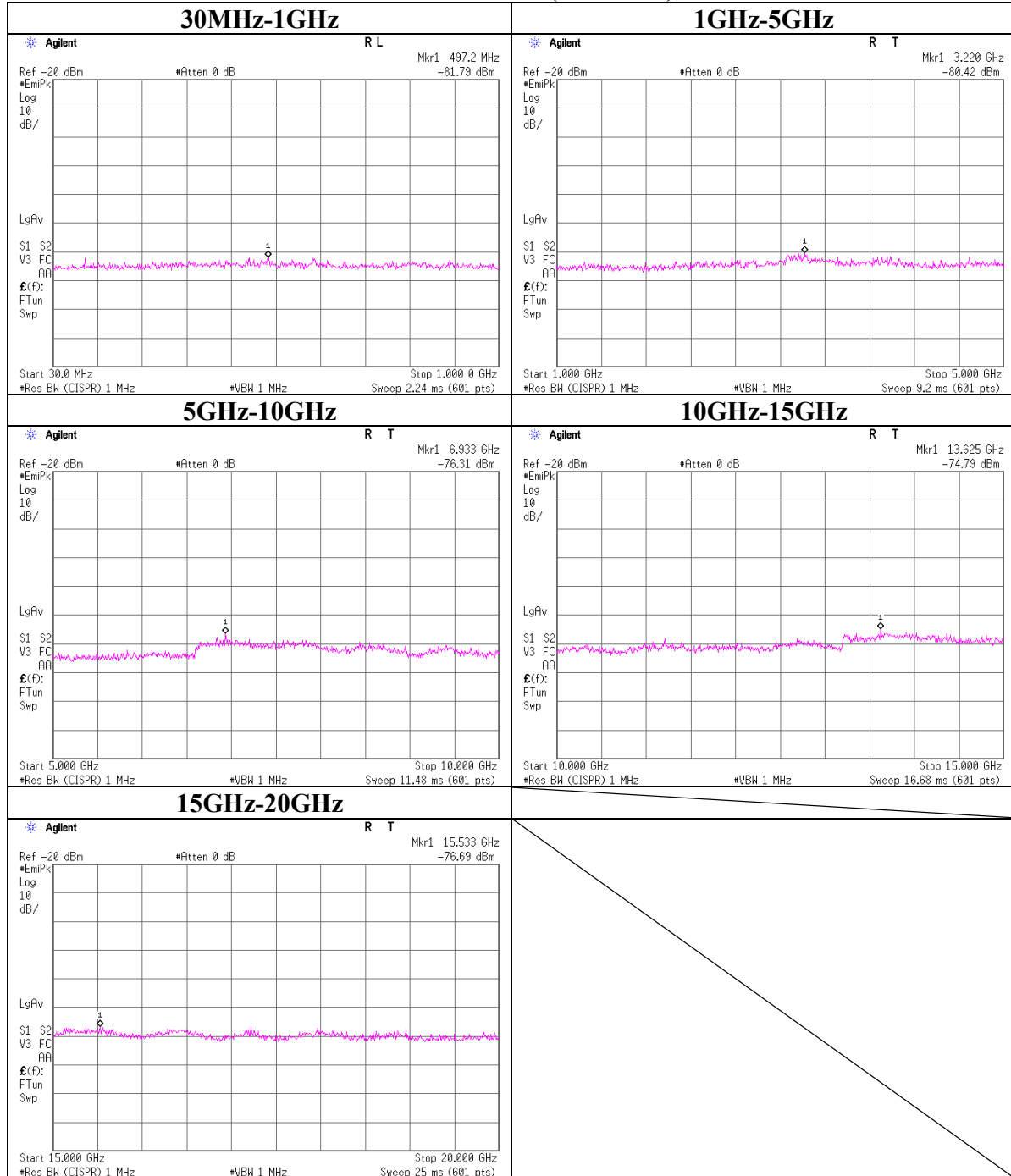


**Conducted Spurious Emission**  
**11n(40HT) Tx 270Mbps Middle Band/ Hch(5310MHz), Antenna 2**

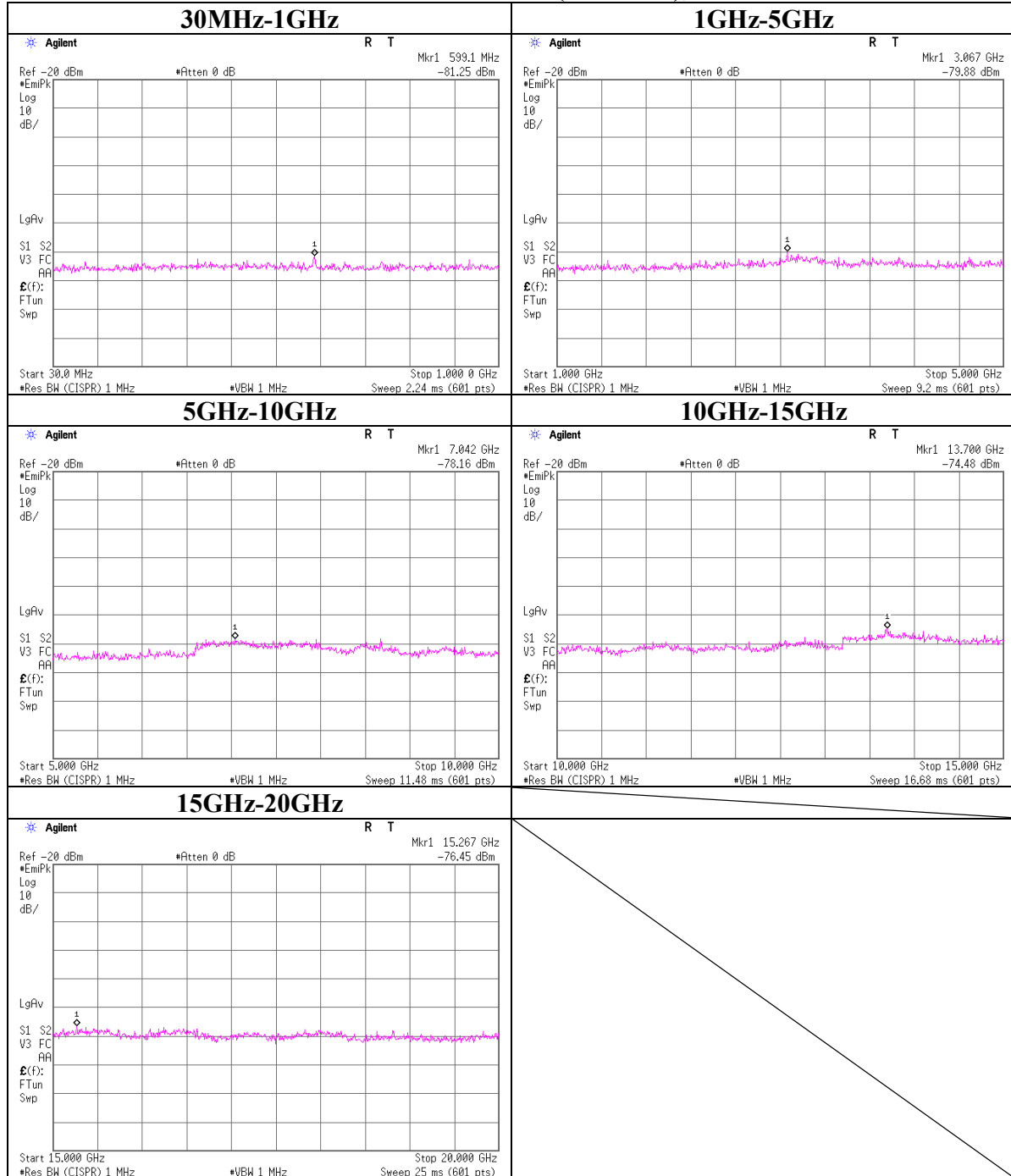




**Conducted Spurious Emission**  
**11a Rx Lower Band/ Lch(5200MHz), Antenna 3**

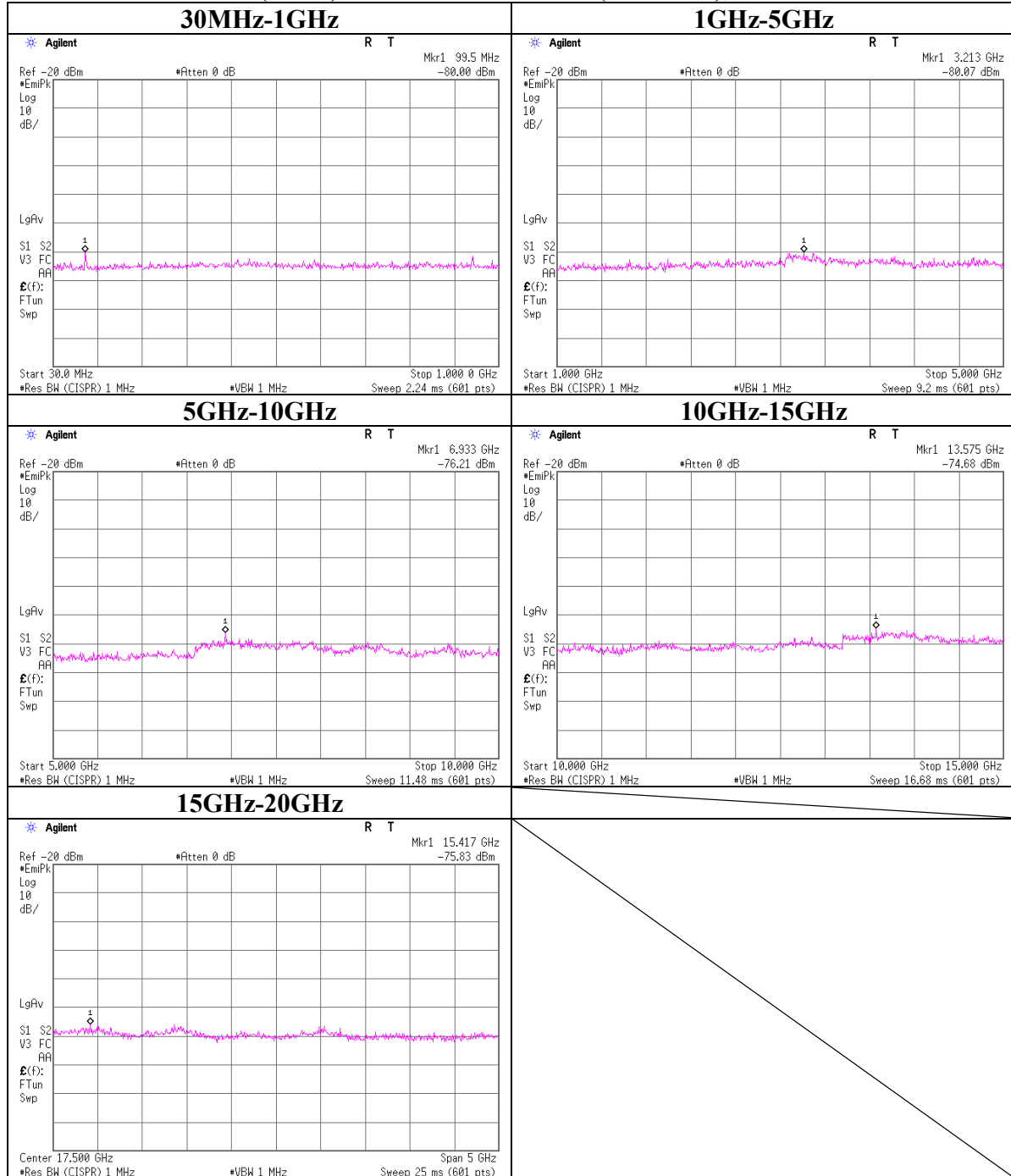


**Conducted Spurious Emission**  
**11a Rx Middle Band/ Mch(5280MHz), Antenna 3**

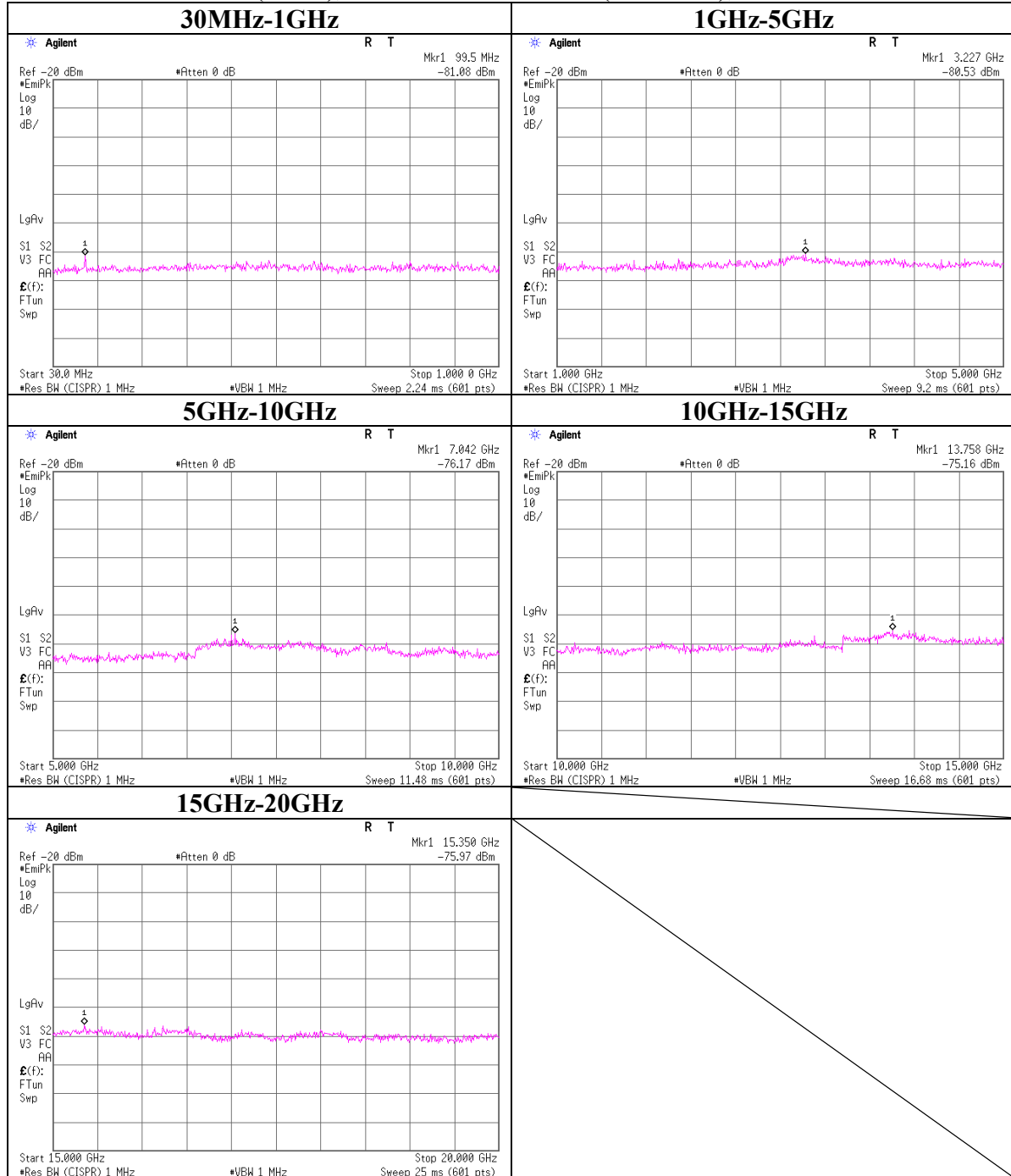




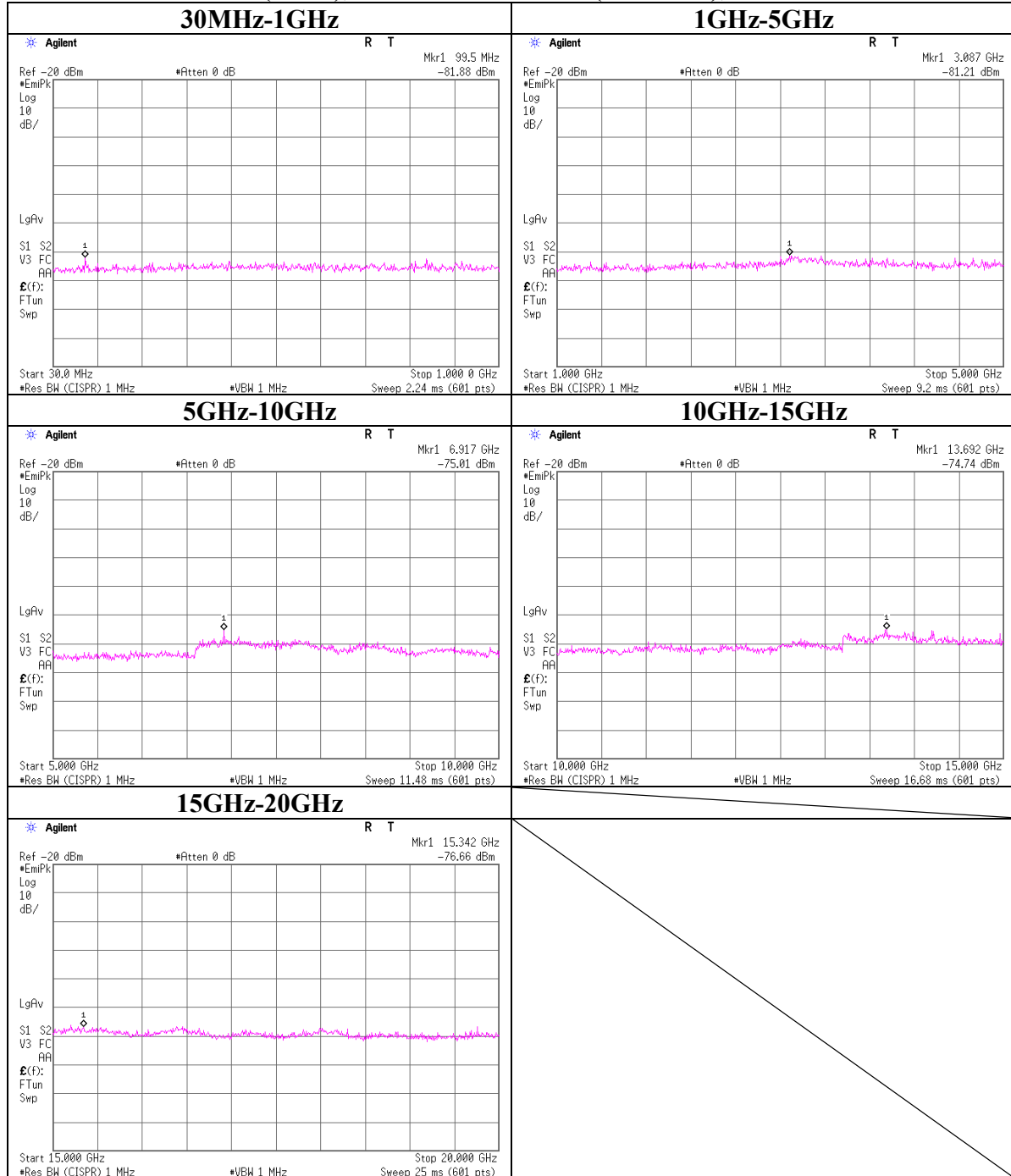
**Conducted Spurious Emission**  
**11n(20HT), Rx Lower Band/ Mch(5200MHz), Antenna 2**



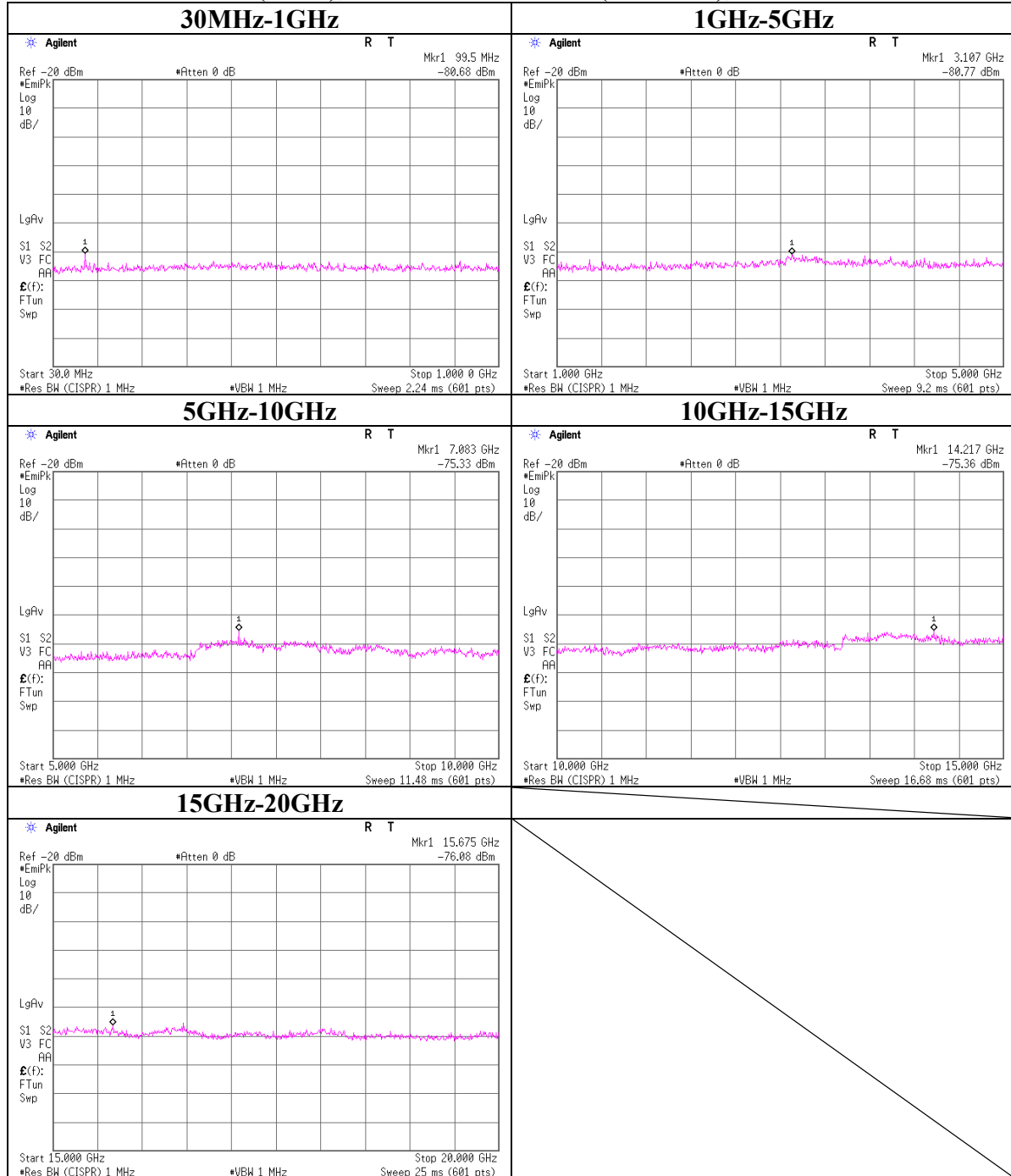
**Conducted Spurious Emission**  
**11n(20HT), Rx Middle Band/ Mch(5280MHz), Antenna 2**



**Conducted Spurious Emission**  
**11n(40HT), Rx Lower Band/ Lch(5190MHz), Antenna 2**



**Conducted Spurious Emission**  
**11n(40HT), Rx Middle Band/ Hch(5310MHz), Antenna 2**



**Radiated emission Band Edge compliance**

**11a Tx Lower Band/Lch(5180MHz), 54Mbps, Used Antenna for Tx: Antenna 3**

**11a Tx Middle Band/Hch(5320MHz), 54Mbps, Used Antenna for Tx: Antenna 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

|            |                                   |               |                                      |
|------------|-----------------------------------|---------------|--------------------------------------|
| Company    | silex technology, Inc.            | Regulation    | FCC Section 15.407(b) / RSS-210 A9.3 |
| Equipment  | MiniPCI Wireless LAN Board        | Test Distance | 3m                                   |
| Model      | SX-10WAN                          | Date          | 05/16, 2008                          |
| S/N        | 008092011314                      | Temperature   | 24 deg.C.                            |
| Power      | DC 3.3V (PC input AC 120V / 60Hz) | Humidity      | 45 %                                 |
| Mode       | 11a, Tx, 5180MHz, 54Mbps, Ant 3   | Engineer      | Takayuki Shimada                     |
|            | 11a, Tx, 5320MHz, 54Mbps, Ant 3   |               |                                      |
| EUT-Axis   | (Worst) H: Y-axis, V: Y-axis      |               |                                      |
| Ant-Axis   | (Worst) H: X0-axis, V: X90-axis   |               |                                      |
| Tx Antenna | 0.8m Height                       |               |                                      |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.  | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |     |
|--|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|-----|
|  |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER |
| Test distance 3meters. Electric Field Strength = Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |     |
| 1  | 5150.00        | 58.5                  | 56.0 | 31.4                        | 30.9                 | 3.6                   | 0.0                           | 62.6                                | 60.1 | -32.6                  | -35.1 | -27.0         | 5.6            | 8.1 |
| 2  | 5350.00        | 55.4                  | 54.1 | 31.5                        | 30.9                 | 3.7                   | 0.0                           | 59.7                                | 58.4 | -35.5                  | -36.8 | -27.0         | 8.5            | 9.8 |

Result(EIRP[dBm])=10\*LOG(( { 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 } / 30) \*10^3)

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.  
\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.  
\*The test result is round off to one or two decimal places, so some differences might be observed.

**Radiated emission Band Edge compliance**

**11n(20HT) Tx Lower Band/Lch(5180MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3  
11n(20HT) Tx Middle Band/Hch(5320MHz), 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

|            |   |               |                                      |
|------------|---|---------------|--------------------------------------|
| Company    | silex technology, Inc.                          | Regulation    | FCC Section 15.407(b) / RSS-210 A9.3 |
| Equipment  | MiniPCI Wireless LAN Board                      | Test Distance | 3m                                   |
| Model      | SX-10WAN  | Date          | 05/27, 2008                          |
| S/N        | 008092011314                                    | Temperature   | 23 deg.C.                            |
| Power      | DC 3.3V (PC input AC 120V / 60Hz)               | Humidity      | 53 %                                 |
| Mode       | 11n(20HT), Tx, 5180MHz, 130Mbps,<br>Ant 1, 2, 3 | Engineer      | Takahiro Hatakeda                    |
|            | 11n(20HT), Tx, 5320MHz, 130Mbps,<br>Ant 1, 2, 3 |               |                                      |
| EUT-Axis   | (Worst) H: Y-axis, V: Y-axis                    |               |                                      |
| Ant-Axis   | (Worst) H: X0-axis, V: X90-axis                 |               |                                      |
| Tx Antenna | 0.8m Height                                     |               |                                      |

**PK detect** (RBW 1MHz, VBW 1MHz)

| No.  | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |      |
|--|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|------|
|  |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER  |
| <b>Test distance 3meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |      |
| 1  | 5150.00        | 46.6                  | 45.1 | 31.4                        | 30.9                 | 3.6                   | 0.0                           | 50.7                                | 49.2 | -44.5                  | -46.0 | -27.0         | 17.5           | 19.0 |
| 2  | 5350.00        | 46.0                  | 47.0 | 31.5                        | 30.9                 | 3.7                   | 0.0                           | 50.3                                | 51.3 | -44.9                  | -43.9 | -27.0         | 17.9           | 16.9 |

Result(EIRP[dBm])=10\*LOG(( { 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 } / 30) \*10^3)

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.  
\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.  
\*The test result is round off to one or two decimal places, so some differences might be observed.

**Radiated emission Band Edge compliance**

**11n(40HT) Tx Lower Band/Lch(5190MHz), 270Mbps, Used Antenna for Tx: Antenna 1 + 2+ 3**  
**11n(40HT) Tx Middle Band/Hch(5310MHz), 270Mbps, Used Antenna for Tx: Antenna 1 + 2+ 3**

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

|            |   |               |                                      |                  |
|------------|---|---------------|--------------------------------------|------------------|
| Company    | silex technology, Inc.                          | Regulation    | FCC Section 15.407(b) / RSS-210 A9.3 |                  |
| Equipment  | MiniPCI Wireless LAN Board                      | Test Distance | 3m                                   |                  |
| Model      | SX-10WAN  | Date          | 05/27, 2008                          | 05/28, 2008      |
| S/N        | 008092011314                                    | Temperature   | 23 deg.C.                            |                  |
| Power      | DC 3.3V (PC input AC 120V / 60Hz)               | Humidity      | 53 %                                 | 71 %             |
| Mode       | 11n(40HT), Tx, 5190MHz, 270Mbps, Ant<br>1, 2, 3 | Engineer      | Takahiro Hatakeda                    | Takayuki Shimada |
|            | 11n(40HT), Tx, 5310MHz, 270Mbps, Ant<br>1, 2, 3 |               |                                      |                  |
| EUT-Axis   | (Worst) H: Y-axis, V: Y-axis                    |               |                                      |                  |
| Ant-Axis   | (Worst) H: X0-axis, V: X90-axis                 |               |                                      |                  |
| Tx Antenna | 0.8m Height                                     |               |                                      |                  |

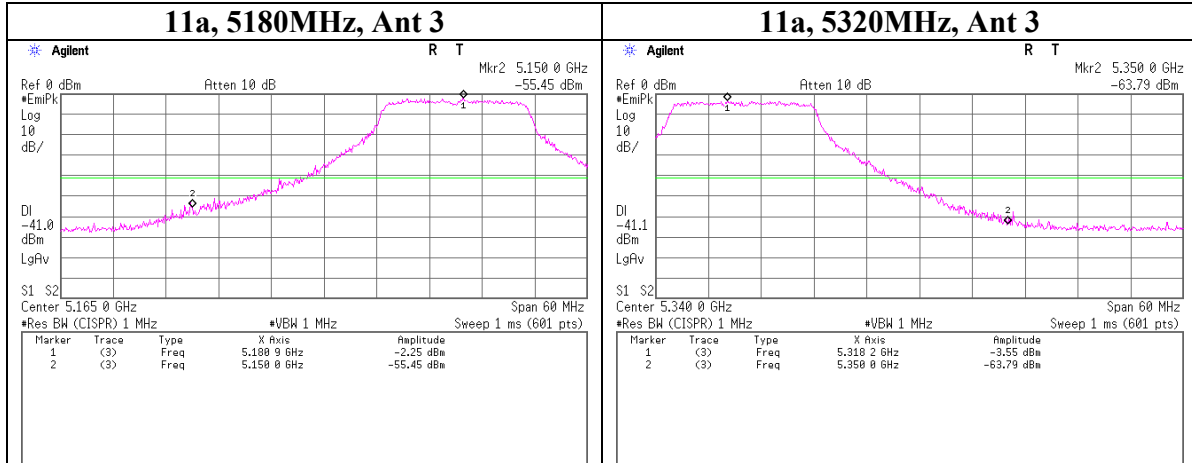
**PK detect** (RBW 1MHz, VBW 1MHz)

| No.  | Freq.<br>[MHz] | S/A Reading<br>[dBuV] |      | Antenna<br>Factor<br>[dB/m] | Amp.<br>Gain<br>[dB] | Cable<br>Loss<br>[dB] | ATT or<br>Filter Loss<br>[dB] | Electric Field Strength<br>[dBuV/m] |      | Result (EIRP)<br>[dBm] |       | Lmit<br>[dBm] | Margin<br>[dB] |     |
|--|----------------|-----------------------|------|-----------------------------|----------------------|-----------------------|-------------------------------|-------------------------------------|------|------------------------|-------|---------------|----------------|-----|
|  |                | HOR                   | VER  |                             |                      |                       |                               | HOR                                 | VER  | HOR                    | VER   |               | HOR            | VER |
| <b>Test distance 3meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)</b> |                |                       |      |                             |                      |                       |                               |                                     |      |                        |       |               |                |     |
| 1  | 5150.00        | 58.6                  | 59.1 | 31.4                        | 30.9                 | 3.6                   | 0.0                           | 62.7                                | 63.2 | -32.5                  | -32.0 | -27.0         | 5.5            | 5.0 |
| 2  | 5350.00        | 60.3                  | 56.5 | 31.5                        | 30.9                 | 3.7                   | 0.0                           | 64.6                                | 60.8 | -30.6                  | -34.4 | -27.0         | 3.6            | 7.4 |

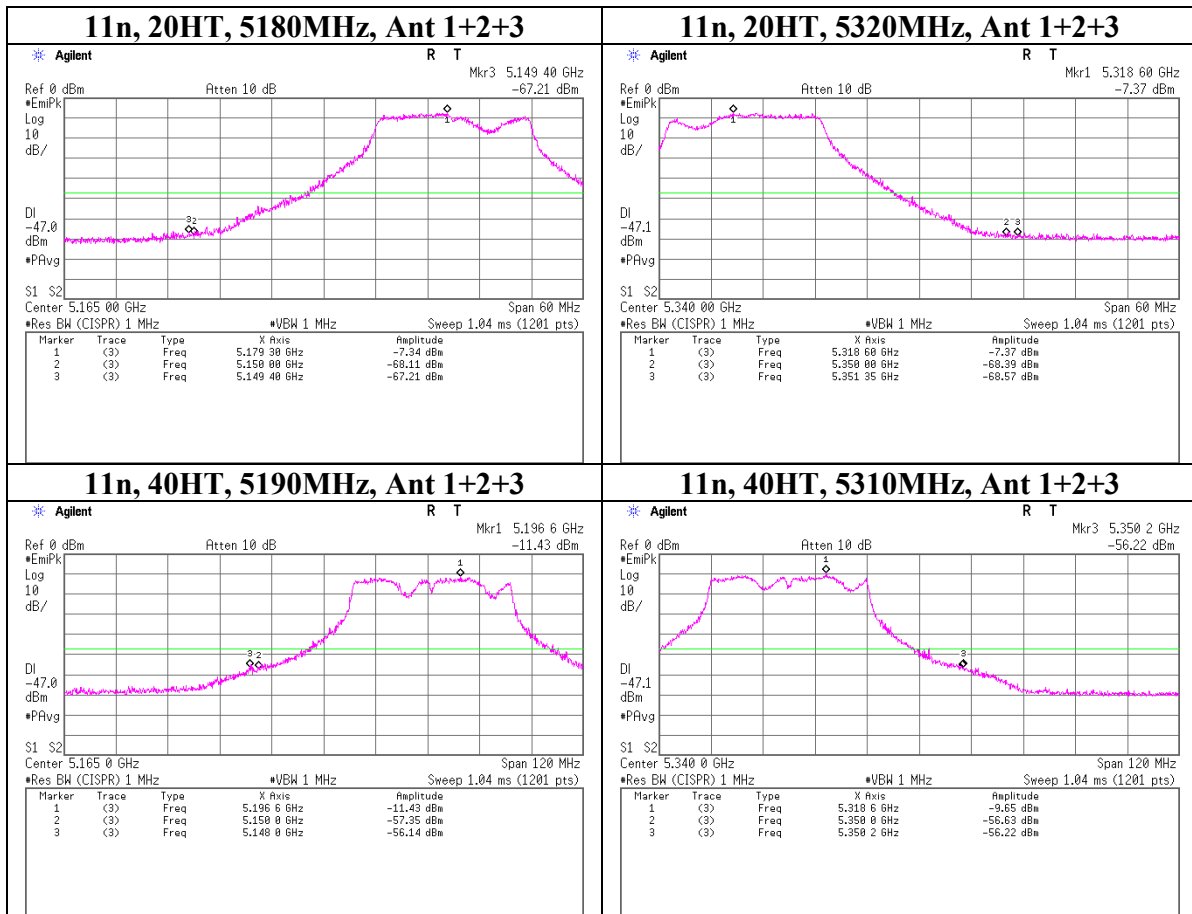
Result(EIRP[dBm])=10\*LOG(( { 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) \* 10 ^ (-6) \* Distance:3[m] ) ^ 2 } / 30) \*10^3)

\* Except for the above table : All other spurious emissions were less than 20dB for the limit.  
\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.  
\*The test result is round off to one or two decimal places, so some differences might be observed.

### Conducted emission Band Edge compliance



Display Line = -27dBm – Cable Loss – ATT.Loss – Ant.Gain



Display Line = -27dBm – Cable Loss – ATT.Loss – Ant.Gain – Combiner Loss



## Peak Power Spectral Density

### 11a

|           |  |  |
|-----------|--|--|
|           | UL Japan, Inc                              |  |
|           | Head Office EMC Lab. No.4 measurement room |  |
| Company   | silex technology, Inc.                     | Regulation                                       |
| Equipment | MiniPCI Wireless LAN Board                 | FCC Section 15.407(a)(1)(2) / RSS-210 A9.2(1)(2) |
| Model     | SX-10WAN                                   | Test Distance                                    |
| S/N       | 008092011316                               | -  |
| Power     | DC 3.3V                                    | Date   |
| Mode      | 11a, Tx, 54Mbps, Ant 3 (Worst)             | May/30/2008                                      |
|           |  | Temperature                                      |
|           |  | 26deg.C.   |
|           |  | Humidity   |
|           |  | 56%  |
|           |  | Engineer   |
|           |  | Kazufumi Nakai                                   |

| Ch | Freq.<br>[MHz] | Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>Loss<br>[dB] | Result |      | Limit |       | Margin<br>[dB] |
|----|----------------|------------------|-----------------------|------------------------|--------|------|-------|-------|----------------|
|    |                |                  |                       |                        | [dBm]  | [mW] | [dBm] | [mW]  |                |
| 36 | 5180.0         | -9.46            | 2.87                  | 10.06                  | 3.47   | 2.22 | 4.00  | 2.51  | 0.53           |
| 40 | 5200.0         | -9.79            | 2.88                  | 10.06                  | 3.15   | 2.07 | 4.00  | 2.51  | 0.85           |
| 48 | 5240.0         | -10.33           | 2.89                  | 10.07                  | 2.63   | 1.83 | 4.00  | 2.51  | 1.37           |
| 52 | 5260.0         | -10.44           | 2.90                  | 10.07                  | 2.53   | 1.79 | 11.00 | 12.58 | 8.47           |
| 56 | 5280.0         | -10.10           | 2.90                  | 10.07                  | 2.87   | 1.94 | 11.00 | 12.58 | 8.13           |
| 64 | 5320.0         | -10.07           | 2.91                  | 10.08                  | 2.92   | 1.96 | 11.00 | 12.58 | 8.08           |

Sample Calculation:

Result [dBm] = S/A Reading + Cable Loss+ Atten. Loss

Result [mW] = 10 ^ ( Result [dBm] / 10 )

**UL Japan, Inc.**

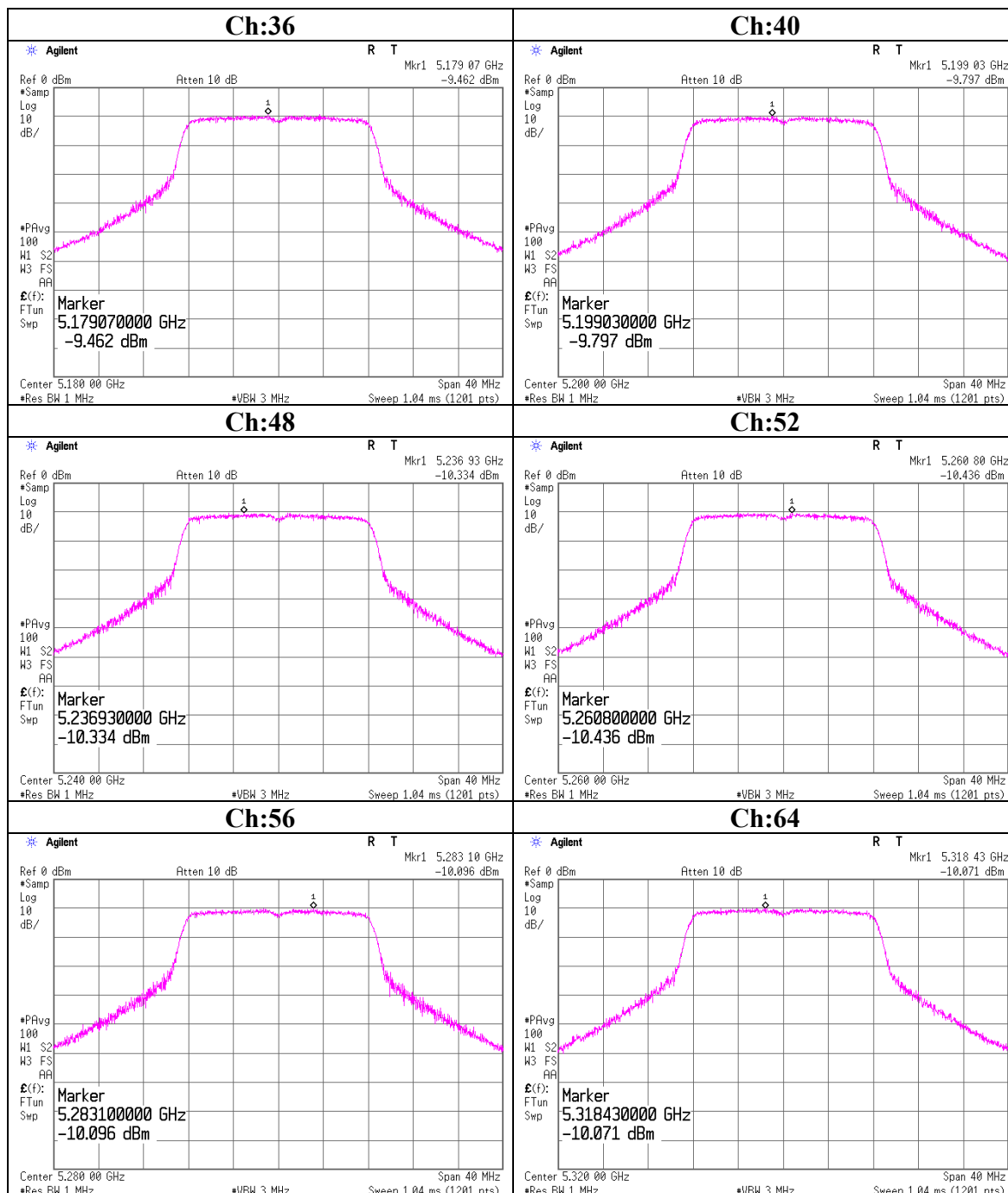
**Head Office EMC Lab.**

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Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

**Peak Power Spectral Density**  
**11a Tx 54Mbps Antenna 3**



## Peak Power Spectral Density

### 11n(20HT)

UL Japan, Inc

Head Office EMC Lab. No.11 measurement room

Company : silex technology, Inc.  
Equipment : MiniPCI Wireless LAN Board  
Model : SX-10WAN  
S/N : 008092011316  
Power : DC 3.3V  
Mode : 11n(20HT), Tx, 130Mbps

Regulation : FCC Section 15.407(a)(1)(2) / RSS-210 A9.2(1)(2)  
Test Distance : -  
Date : June/07/2008      June/11/2008  
Temperature : 24deg.C.      26deg.C.  
Humidity : 64%      66%  
Engineer : Takahiro Hatakeda      Satofumi Matsuyama

**[IEEE 802.11n(20HT)]**

**Ant1 + Ant2 + Ant3**

| Ch | Freq.<br>[MHz] | Ant1<br>Result<br>[mW] | Ant2<br>Result<br>[mW] | Ant3<br>Result<br>[mW] | Result |      | Limit |       | Margin<br>[dB] |
|----|----------------|------------------------|------------------------|------------------------|--------|------|-------|-------|----------------|
|    |                |                        |                        |                        | [dBm]  | [mW] | [dBm] | [mW]  |                |
| 36 | 5180.0         | 0.88                   | 0.73                   | 0.62                   | 3.47   | 2.23 | 4.00  | 2.51  | 0.53           |
| 40 | 5200.0         | 0.81                   | 0.78                   | 0.65                   | 3.51   | 2.24 | 4.00  | 2.51  | 0.49           |
| 48 | 5240.0         | 0.79                   | 0.82                   | 0.65                   | 3.54   | 2.26 | 4.00  | 2.51  | 0.46           |
| 52 | 5260.0         | 0.93                   | 0.93                   | 0.94                   | 4.47   | 2.80 | 11.00 | 12.58 | 6.53           |
| 56 | 5280.0         | 0.92                   | 1.12                   | 0.98                   | 4.81   | 3.03 | 11.00 | 12.58 | 6.19           |
| 64 | 5320.0         | 1.03                   | 1.04                   | 1.01                   | 4.89   | 3.08 | 11.00 | 12.58 | 6.11           |

Sample Calculation:

Result [mW] = Ant1 Result [mW] + Ant2 Result [mW] + Ant3 Result [mW]

Result [dBm] = 10 x log ( Ant1 Result [mW] + Ant2 Result [mW] + Ant3 Result [mW] )

**Ant1**

| Ch | Freq.<br>[MHz] | Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>Loss<br>[dB] | Result |      | Limit |       | Margin<br>[dB] |
|----|----------------|------------------|-----------------------|------------------------|--------|------|-------|-------|----------------|
|    |                |                  |                       |                        | [dBm]  | [mW] | [dBm] | [mW]  |                |
| 36 | 5180.0         | -13.50           | 2.87                  | 10.06                  | -0.57  | 0.88 | 4.00  | 2.51  | 4.57           |
| 40 | 5200.0         | -13.86           | 2.88                  | 10.06                  | -0.92  | 0.81 | 4.00  | 2.51  | 4.92           |
| 48 | 5240.0         | -14.01           | 2.89                  | 10.07                  | -1.05  | 0.79 | 4.00  | 2.51  | 5.05           |
| 52 | 5260.0         | -13.27           | 2.90                  | 10.07                  | -0.30  | 0.93 | 11.00 | 12.58 | 11.30          |
| 56 | 5280.0         | -13.32           | 2.90                  | 10.07                  | -0.35  | 0.92 | 11.00 | 12.58 | 11.35          |
| 64 | 5320.0         | -12.87           | 2.91                  | 10.08                  | 0.12   | 1.03 | 11.00 | 12.58 | 10.88          |

**Ant2**

| Ch | Freq.<br>[MHz] | Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>Loss<br>[dB] | Result |      | Limit |       | Margin<br>[dB] |
|----|----------------|------------------|-----------------------|------------------------|--------|------|-------|-------|----------------|
|    |                |                  |                       |                        | [dBm]  | [mW] | [dBm] | [mW]  |                |
| 36 | 5180.0         | -14.28           | 2.87                  | 10.06                  | -1.35  | 0.73 | 4.00  | 2.51  | 5.35           |
| 40 | 5200.0         | -14.03           | 2.88                  | 10.06                  | -1.09  | 0.78 | 4.00  | 2.51  | 5.09           |
| 48 | 5240.0         | -13.80           | 2.89                  | 10.07                  | -0.84  | 0.82 | 4.00  | 2.51  | 4.84           |
| 52 | 5260.0         | -13.30           | 2.90                  | 10.07                  | -0.33  | 0.93 | 11.00 | 12.58 | 11.33          |
| 56 | 5280.0         | -12.47           | 2.90                  | 10.07                  | 0.50   | 1.12 | 11.00 | 12.58 | 10.50          |
| 64 | 5320.0         | -12.83           | 2.91                  | 10.08                  | 0.17   | 1.04 | 11.00 | 12.58 | 10.84          |

**Ant3**

| Ch | Freq.<br>[MHz] | Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>Loss<br>[dB] | Result |      | Limit |       | Margin<br>[dB] |
|----|----------------|------------------|-----------------------|------------------------|--------|------|-------|-------|----------------|
|    |                |                  |                       |                        | [dBm]  | [mW] | [dBm] | [mW]  |                |
| 36 | 5180.0         | -15.04           | 2.87                  | 10.06                  | -2.11  | 0.62 | 4.00  | 2.51  | 6.11           |
| 40 | 5200.0         | -14.79           | 2.88                  | 10.06                  | -1.85  | 0.65 | 4.00  | 2.51  | 5.85           |
| 48 | 5240.0         | -14.83           | 2.89                  | 10.07                  | -1.87  | 0.65 | 4.00  | 2.51  | 5.87           |
| 52 | 5260.0         | -13.24           | 2.90                  | 10.07                  | -0.27  | 0.94 | 11.00 | 12.58 | 11.27          |
| 56 | 5280.0         | -13.06           | 2.90                  | 10.07                  | -0.09  | 0.98 | 11.00 | 12.58 | 11.09          |
| 64 | 5320.0         | -12.94           | 2.91                  | 10.08                  | 0.05   | 1.01 | 11.00 | 12.58 | 10.95          |

Sample Calculation:

Result [dBm] = Reading + Cable Loss + Atten. Loss

Result [mW] = 10 ^ ( Result [dBm] / 10 )

**UL Japan, Inc.**

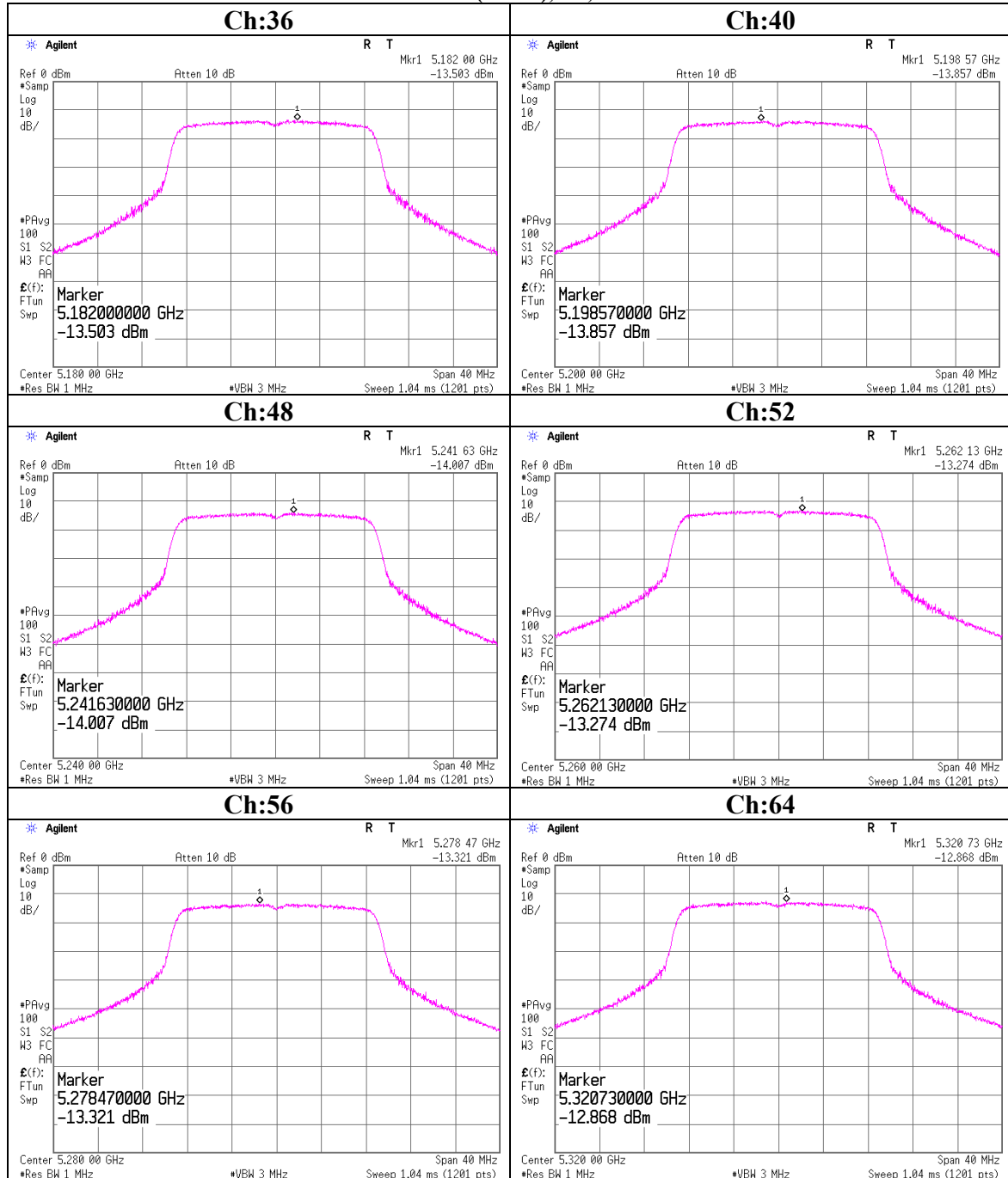
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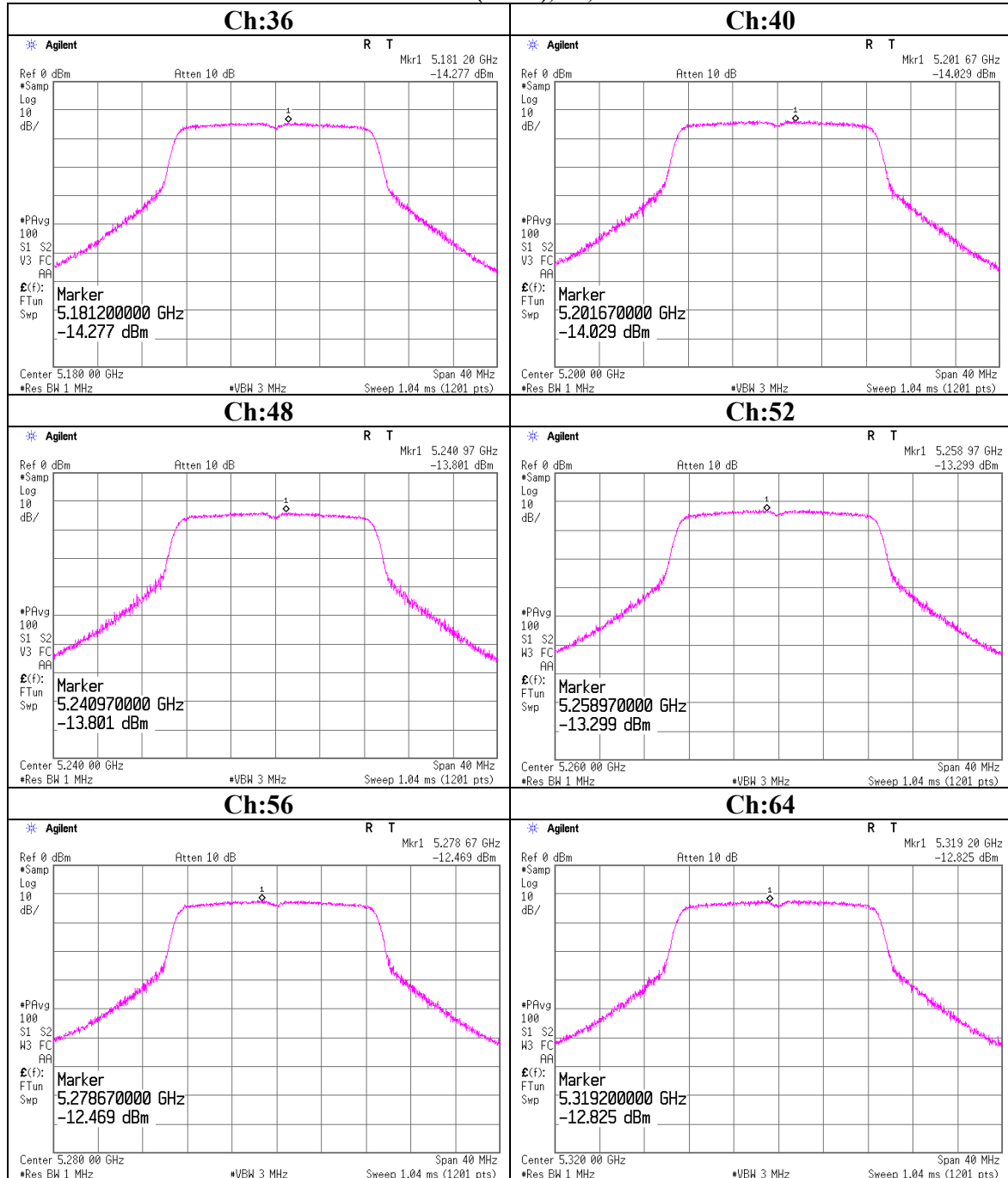
Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

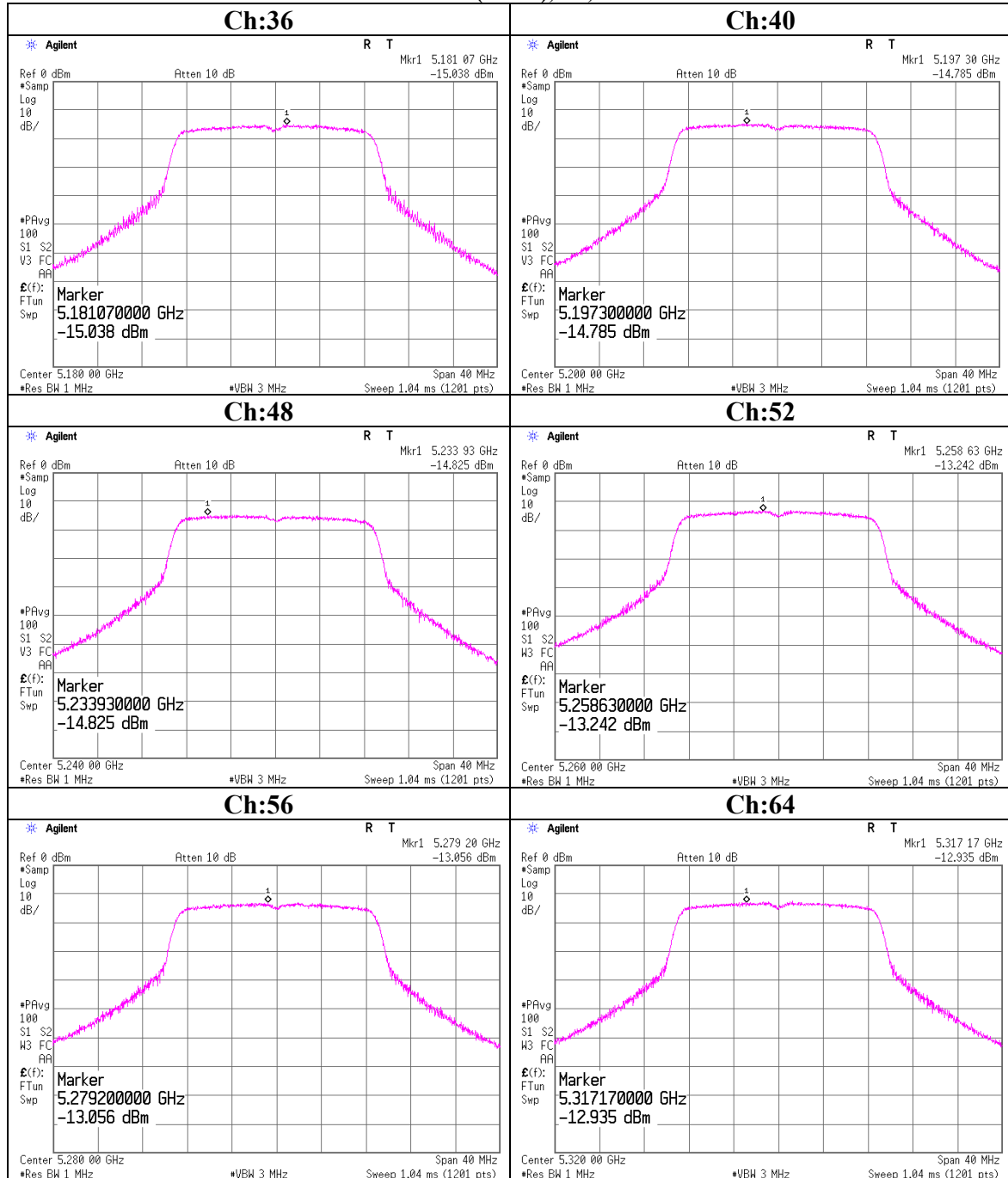
**Peak Power Spectral Density**  
**11n(20HT), Tx, Ant1**



**Peak Power Spectral Density**  
**11n(20HT), Tx, Ant2**



**Peak Power Spectral Density**  
**11n(20HT), Tx, Ant3**



## Peak Power Spectral Density

### 11n(40HT) Tx 270Mbps

UL Japan, Inc

Head Office EMC Lab. No.11 measurement room

Company : silex technology, Inc.  
Equipment : MiniPCI Wireless LAN Board  
Model : SX-10WAN  
S/N : 008092011316  
Power : DC 3.3V  
Mode : 11n(40HT), Tx, 270Mbps

Regulation : FCC Section 15.407(a)(1)(2) / RSS-210 A9.2(1)(2)  
Test Distance : -  
Date : June/07/2008  
Temperature : 24deg.C.  
Humidity : 64%  
Engineer : Takahiro Hatakeda

**[IEEE 802.11n(40HT)]**

**Ant1 + Ant2 + Ant3**

| Ch | Freq.<br>[MHz] | Ant1<br>Result<br>[dBm] | Ant2<br>Result<br>[dBm] | Ant3<br>Result<br>[dBm] | Result |      | Limit |       | Margin<br>[dB] |
|----|----------------|-------------------------|-------------------------|-------------------------|--------|------|-------|-------|----------------|
|    |                |                         |                         |                         | [dBm]  | [mW] | [dBm] | [mW]  |                |
| 38 | 5190.0         | 0.38                    | 0.33                    | 0.45                    | 0.63   | 1.16 | 4.00  | 2.51  | 3.37           |
| 46 | 5230.0         | 0.33                    | 0.38                    | 0.34                    | 0.22   | 1.05 | 4.00  | 2.51  | 3.78           |
| 54 | 5270.0         | 0.36                    | 0.36                    | 0.41                    | 0.52   | 1.13 | 11.00 | 12.58 | 10.48          |
| 62 | 5310.0         | 0.36                    | 0.50                    | 0.33                    | 0.75   | 1.19 | 11.00 | 12.58 | 10.25          |

Sample Calculation:

Result [mW] = Ant1 Result [mW] + Ant2 Result [mW] + Ant3 Result [mW]

Result [dBm] = 10 x log ( Ant1+ Ant2 + Ant3 Result [mW] )

**Ant1**

| Ch | Freq.<br>[MHz] | Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>Loss<br>[dB] | Result |      | Limit |       | Margin<br>[dB] |
|----|----------------|------------------|-----------------------|------------------------|--------|------|-------|-------|----------------|
|    |                |                  |                       |                        | [dBm]  | [mW] | [dBm] | [mW]  |                |
| 38 | 5190.0         | -17.17           | 2.87                  | 10.06                  | -4.24  | 0.38 | 4.00  | 2.51  | 8.24           |
| 46 | 5230.0         | -17.71           | 2.88                  | 10.06                  | -4.77  | 0.33 | 4.00  | 2.51  | 8.77           |
| 54 | 5270.0         | -17.42           | 2.90                  | 10.07                  | -4.45  | 0.36 | 11.00 | 12.58 | 15.45          |
| 62 | 5310.0         | -17.40           | 2.91                  | 10.08                  | -4.41  | 0.36 | 11.00 | 12.58 | 15.41          |

**Ant2**

| Ch | Freq.<br>[MHz] | Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>Loss<br>[dB] | Result |      | Limit |       | Margin<br>[dB] |
|----|----------------|------------------|-----------------------|------------------------|--------|------|-------|-------|----------------|
|    |                |                  |                       |                        | [dBm]  | [mW] | [dBm] | [mW]  |                |
| 38 | 5190.0         | -17.73           | 2.87                  | 10.06                  | -4.80  | 0.33 | 4.00  | 2.51  | 8.80           |
| 46 | 5230.0         | -17.14           | 2.88                  | 10.06                  | -4.20  | 0.38 | 4.00  | 2.51  | 8.20           |
| 54 | 5270.0         | -17.38           | 2.90                  | 10.07                  | -4.41  | 0.36 | 11.00 | 12.58 | 15.41          |
| 62 | 5310.0         | -16.00           | 2.91                  | 10.08                  | -3.01  | 0.50 | 11.00 | 12.58 | 14.01          |

**Ant3**

| Ch | Freq.<br>[MHz] | Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>Loss<br>[dB] | Result |      | Limit |       | Margin<br>[dB] |
|----|----------------|------------------|-----------------------|------------------------|--------|------|-------|-------|----------------|
|    |                |                  |                       |                        | [dBm]  | [mW] | [dBm] | [mW]  |                |
| 38 | 5190.0         | -16.42           | 2.87                  | 10.06                  | -3.49  | 0.45 | 4.00  | 2.51  | 7.49           |
| 46 | 5230.0         | -17.64           | 2.88                  | 10.06                  | -4.70  | 0.34 | 4.00  | 2.51  | 8.70           |
| 54 | 5270.0         | -16.89           | 2.90                  | 10.07                  | -3.92  | 0.41 | 11.00 | 12.58 | 14.92          |
| 62 | 5310.0         | -17.85           | 2.91                  | 10.08                  | -4.86  | 0.33 | 11.00 | 12.58 | 15.86          |

Sample Calculation:

Result [dBm] = Reading + Cable Loss+ Atten. Loss

Result [mW] = 10 ^ ( Result [dBm] / 10 )

**UL Japan, Inc.**

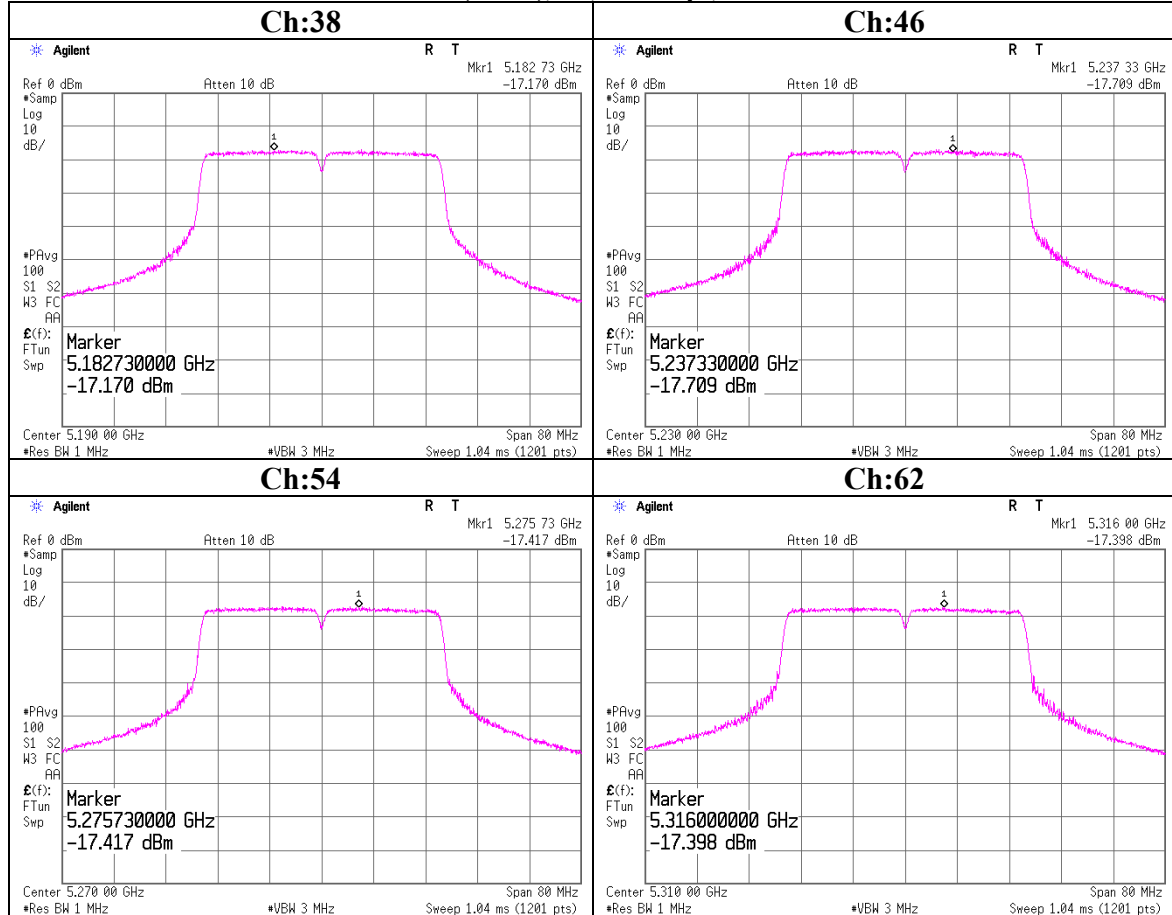
**Head Office EMC Lab.**

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Telephone : +81 596 24 8116

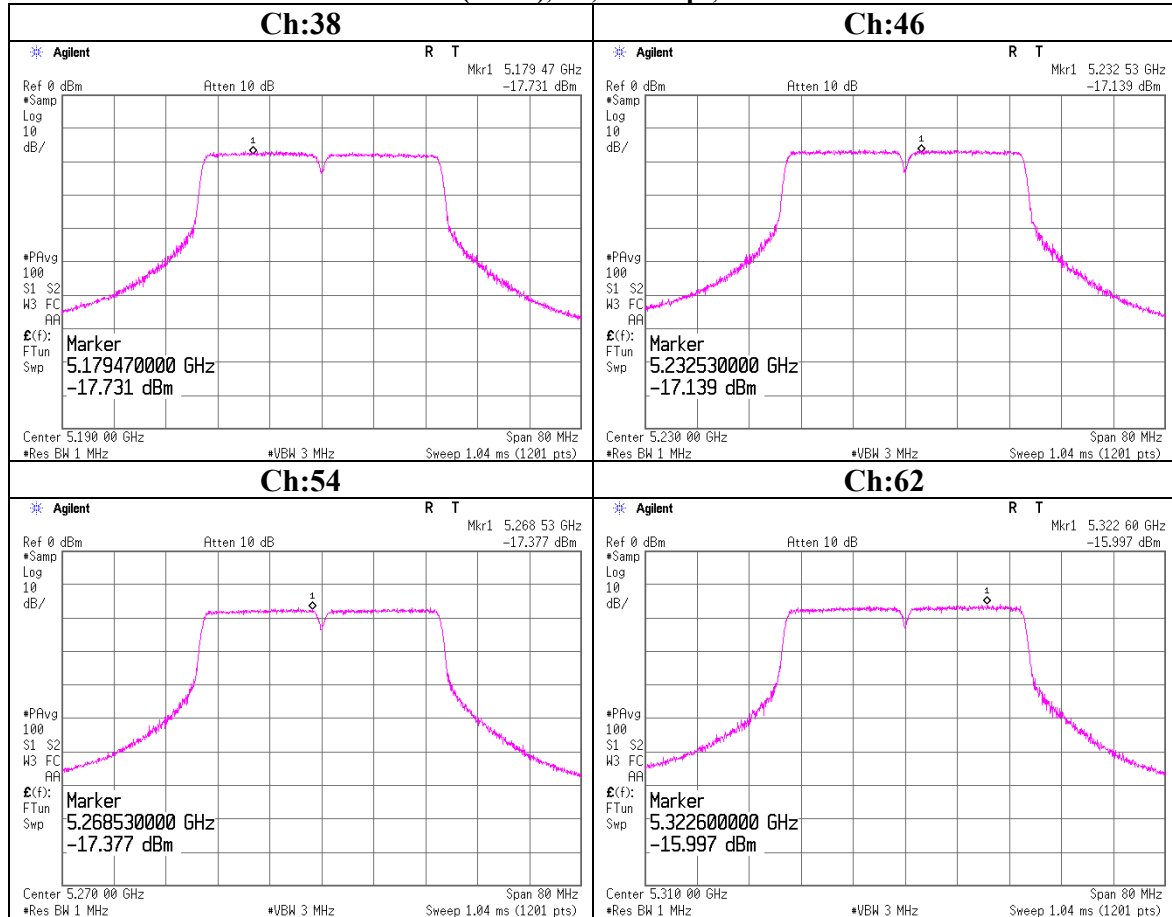
Facsimile : +81 596 24 8124

**Peak Power Spectral Density**  
**11n(40HT), Tx, 270Mbps, Antenna 1**

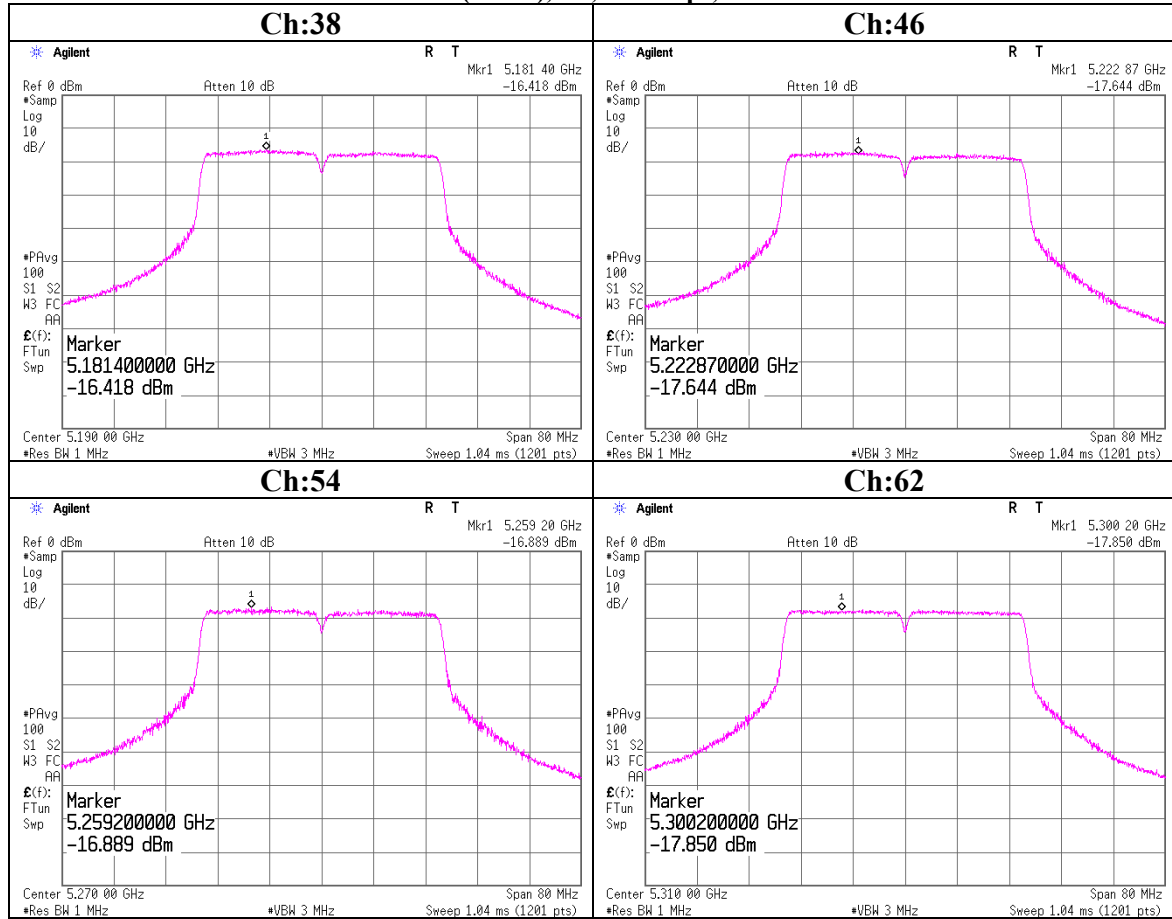




**Peak Power Spectral Density**  
**11n(40HT), Tx, 270Mbps, Antenna 2**



**Peak Power Spectral Density**  
**11n(40HT), Tx, 270Mbps, Antenna 3**



### Peak Excursion Ratio

#### 11a

|           |                                |  |                          |
|-----------|--------------------------------|--|--------------------------|
| Company   | silex technology, Inc.         | UL Japan, Inc                              |                          |
| Equipment | MiniPCI Wireless LAN Board     | Head Office EMC Lab. No.4 measurement room |                          |
| Model     | SX-10WAN                       | Regulation                                 | FCC Section 15.407(a)(6) |
| S/N       | 008092011316                   | Test Distance                              | -                        |
| Power     | DC 3.3V                        | Date                                       | May/30/2008              |
| Mode      | 11a, Tx, 54Mbps, Ant 3 (Worst) | Temperature                                | 26deg.C.                 |
|           |                                | Humidity                                   | 56%                      |
|           |                                | Engineer                                   | Kazufumi Nakai           |

| Ch | Freq.<br>[MHz] | Peak Power<br>Excursion<br>[dB] | Limit<br>[dB] |
|----|----------------|---------------------------------|---------------|
| 36 | 5180.0         | 9.35                            | 13.0          |
| 40 | 5200.0         | 9.41                            | 13.0          |
| 48 | 5240.0         | 9.52                            | 13.0          |
| 52 | 5260.0         | 11.89                           | 13.0          |
| 56 | 5280.0         | 9.40                            | 13.0          |
| 64 | 5320.0         | 9.59                            | 13.0          |

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**UL Japan, Inc.**

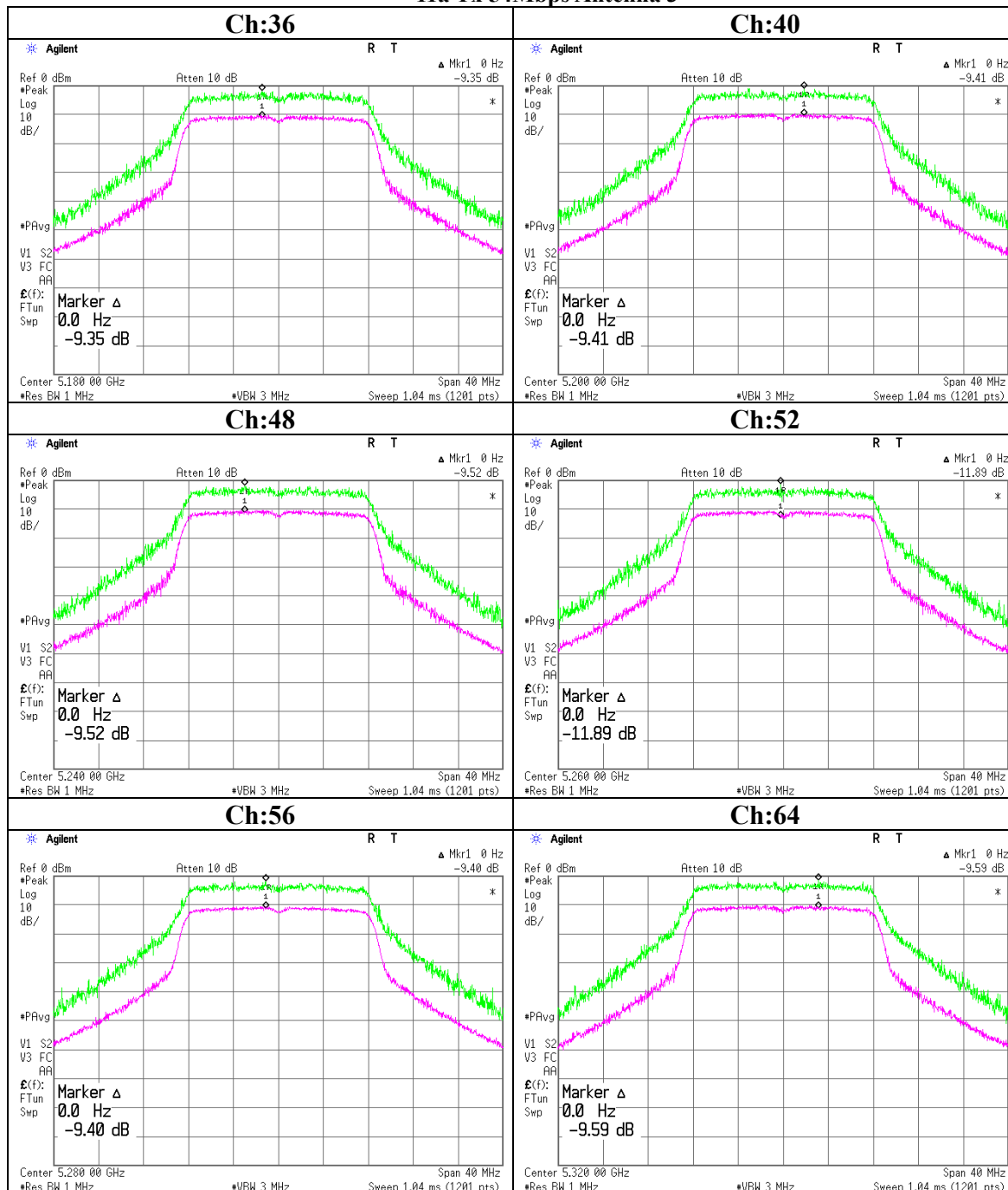
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**Peak Excursion Ratio**  
**11a Tx 54Mbps Antenna 3**



### Peak Excursion Ratio

#### 11n(20HT)

UL Japan, Inc

Head Office EMC Lab. No.11 measurement room

Company : silex technology, Inc.  
Equipment : MiniPCI Wireless LAN Board  
Model : SX-10WAN  
S/N : 008092011316  
Power : DC 3.3V  
Mode : 11n(20HT), Tx, 130Mbps

Regulation : FCC Section 15.407(a)(6)  
Test Distance : -  
Date : June/07/2008  
Temperature : 24deg.C.  
Humidity : 64%  
Engineer : Takahiro Hatakeda

#### Ant1

| Ch | Freq.<br>[MHz] | Peak Power<br>Excursion<br>[dB] | Limit<br>[dB] |
|----|----------------|---------------------------------|---------------|
| 36 | 5180.0         | 10.55                           | 13.0          |
| 40 | 5200.0         | 10.41                           | 13.0          |
| 48 | 5240.0         | 10.00                           | 13.0          |
| 52 | 5260.0         | 9.72                            | 13.0          |
| 56 | 5280.0         | 10.18                           | 13.0          |
| 64 | 5320.0         | 10.50                           | 13.0          |

#### Ant2

| Ch | Freq.<br>[MHz] | Peak Power<br>Excursion<br>[dB] | Limit<br>[dB] |
|----|----------------|---------------------------------|---------------|
| 36 | 5180.0         | 10.24                           | 13.0          |
| 40 | 5200.0         | 10.35                           | 13.0          |
| 48 | 5240.0         | 10.69                           | 13.0          |
| 52 | 5260.0         | 10.54                           | 13.0          |
| 56 | 5280.0         | 10.39                           | 13.0          |
| 64 | 5320.0         | 9.74                            | 13.0          |

#### Ant3

| Ch | Freq.<br>[MHz] | Peak Power<br>Excursion<br>[dB] | Limit<br>[dB] |
|----|----------------|---------------------------------|---------------|
| 36 | 5180.0         | 10.25                           | 13.0          |
| 40 | 5200.0         | 10.36                           | 13.0          |
| 48 | 5240.0         | 9.13                            | 13.0          |
| 52 | 5260.0         | 11.09                           | 13.0          |
| 56 | 5280.0         | 11.45                           | 13.0          |
| 64 | 5320.0         | 9.52                            | 13.0          |

**UL Japan, Inc.**

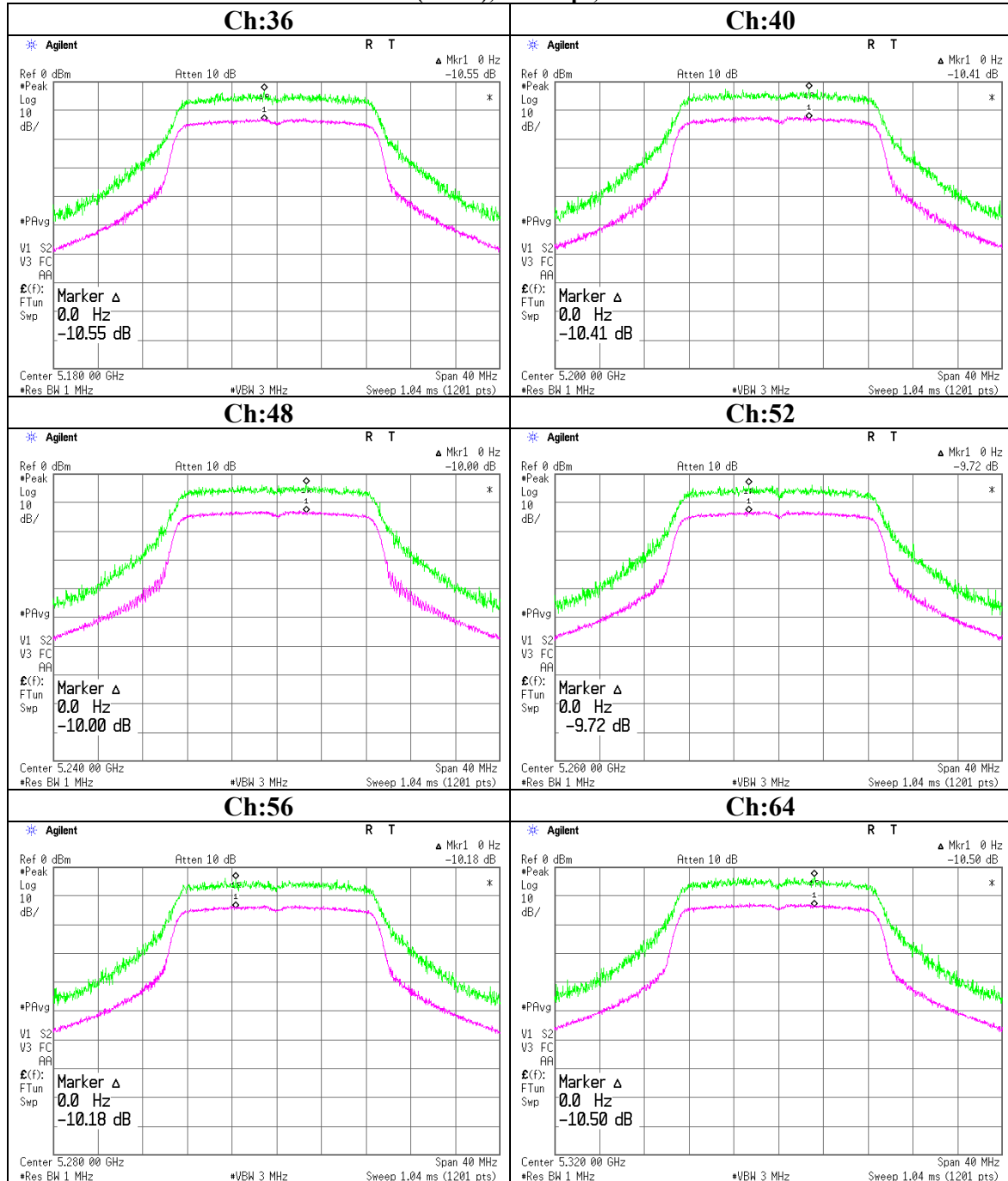
**Head Office EMC Lab.**

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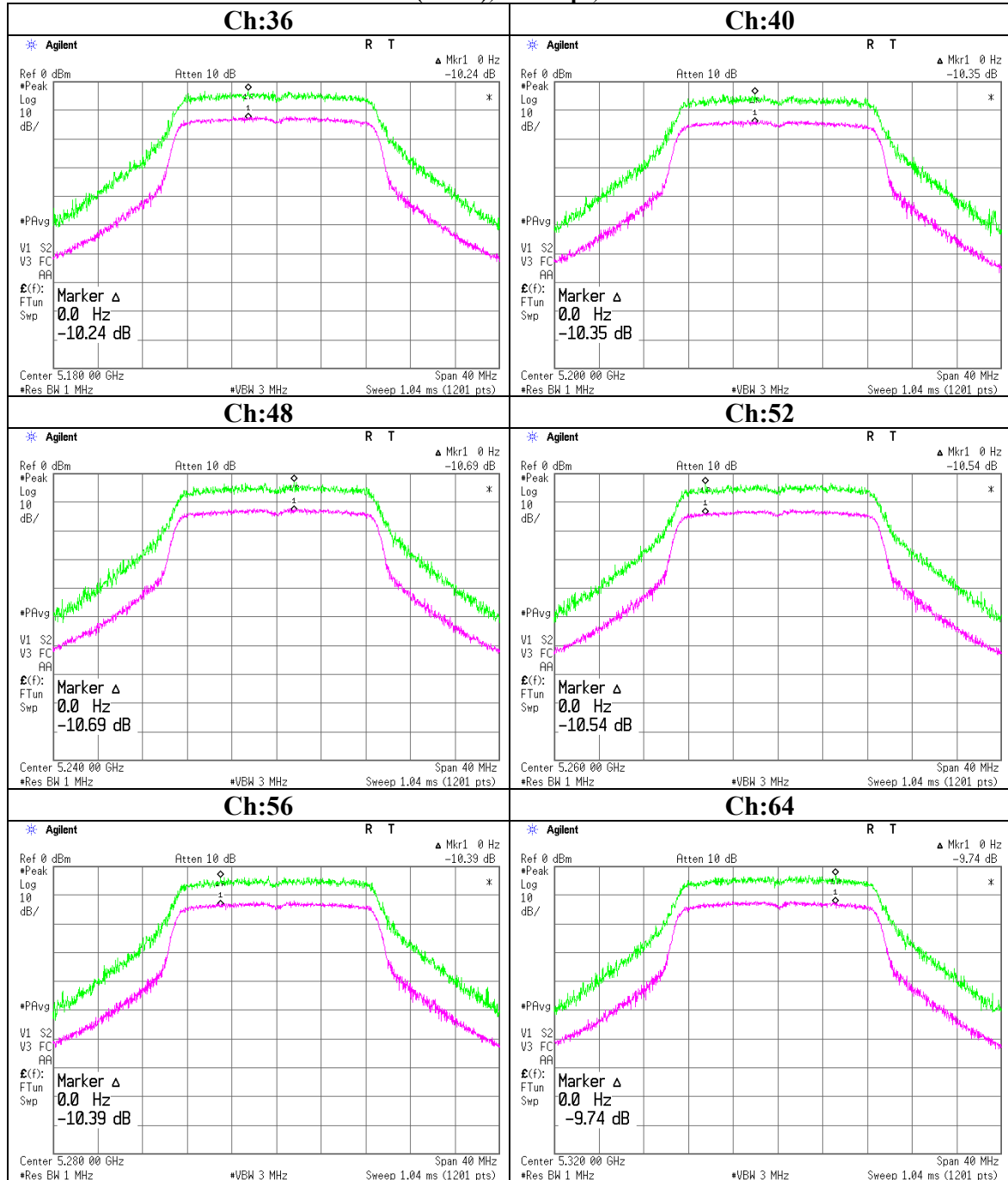
Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

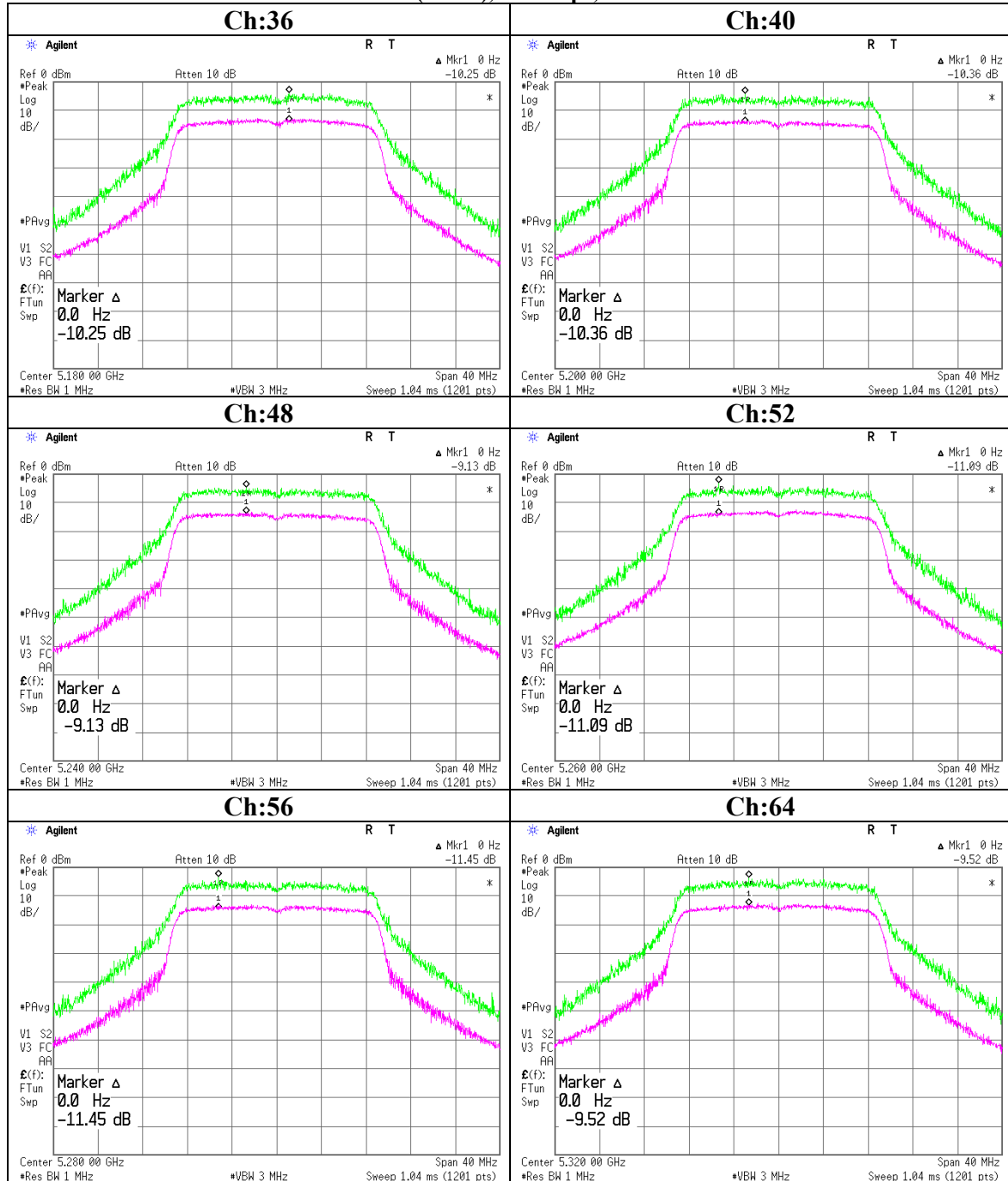
**Peak Excursion Ratio**  
**11n(20HT), 130Mbps, Antenna 1**



**Peak Excursion Ratio**  
**11n(20HT), 130Mbps, Antenna 2**



**Peak Excursion Ratio**  
**11n(20HT), 130Mbps, Antenna 3**





### Peak Excursion Ratio

#### **11n(40HT)**

UL Japan, Inc

Head Office EMC Lab. No.11 measurement room

Company : silex technology, Inc.  
Equipment : MiniPCI Wireless LAN Board  
Model : SX-10WAN  
S/N : 008092011316  
Power : DC 3.3V  
Mode : 11n(40HT), Tx, 270Mbps

Regulation : FCC Section 15.407(a)(6)  
Test Distance : -  
Date : June/07/2008  
Temperature : 24deg.C.  
Humidity : 64%  
Engineer : Takahiro Hatakeda

#### **Ant1**

| Ch | Freq.<br>[MHz] | Peak Power<br>Excursion<br>[dB] | Limit<br>[dB] |
|----|----------------|---------------------------------|---------------|
| 38 | 5190.0         | 9.87                            | 13.0          |
| 46 | 5230.0         | 10.12                           | 13.0          |
| 54 | 5270.0         | 10.14                           | 13.0          |
| 62 | 5310.0         | 10.66                           | 13.0          |

#### **Ant2**

| Ch | Freq.<br>[MHz] | Peak Power<br>Excursion<br>[dB] | Limit<br>[dB] |
|----|----------------|---------------------------------|---------------|
| 38 | 5190.0         | 11.08                           | 13.0          |
| 46 | 5230.0         | 10.51                           | 13.0          |
| 54 | 5270.0         | 10.56                           | 13.0          |
| 62 | 5310.0         | 11.47                           | 13.0          |

#### **Ant3**

| Ch | Freq.<br>[MHz] | Peak Power<br>Excursion<br>[dB] | Limit<br>[dB] |
|----|----------------|---------------------------------|---------------|
| 38 | 5190.0         | 10.62                           | 13.0          |
| 46 | 5230.0         | 11.14                           | 13.0          |
| 54 | 5270.0         | 10.41                           | 13.0          |
| 62 | 5310.0         | 10.01                           | 13.0          |

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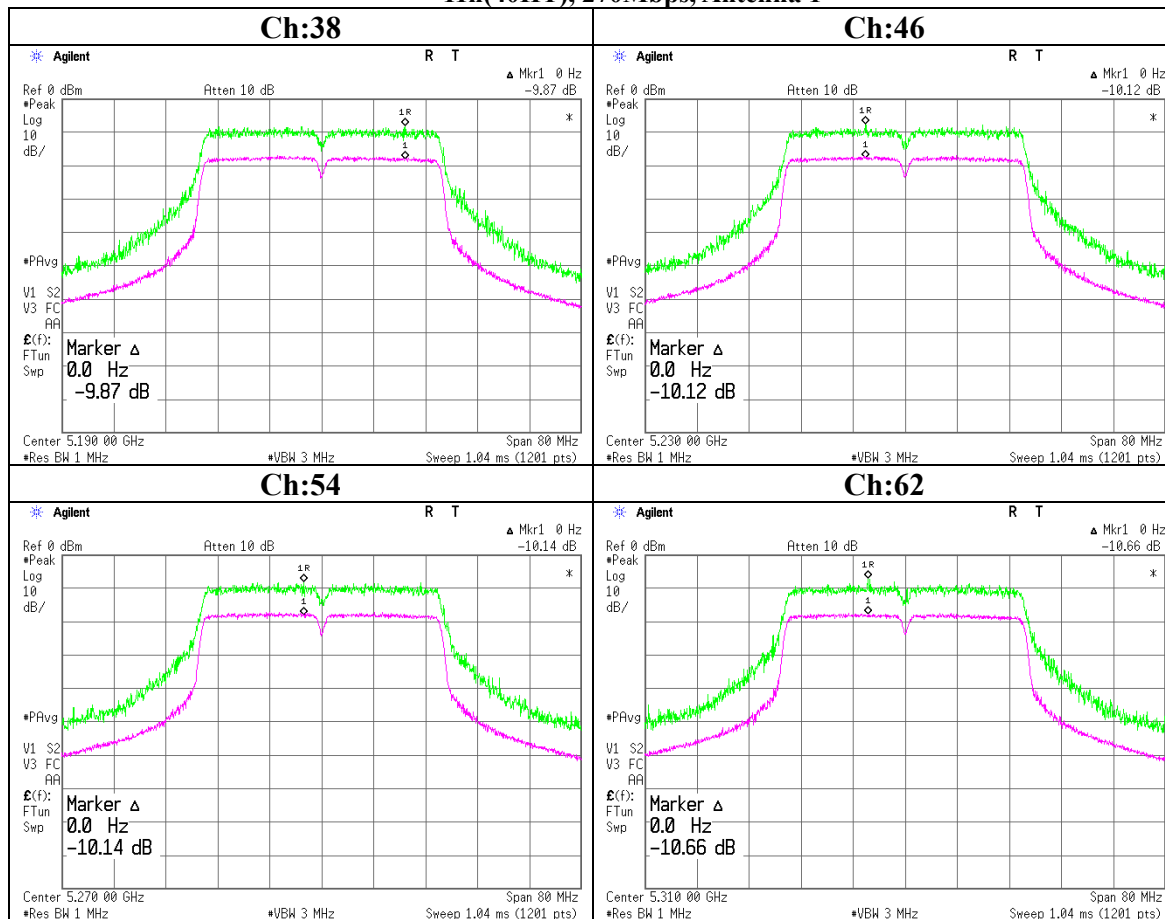
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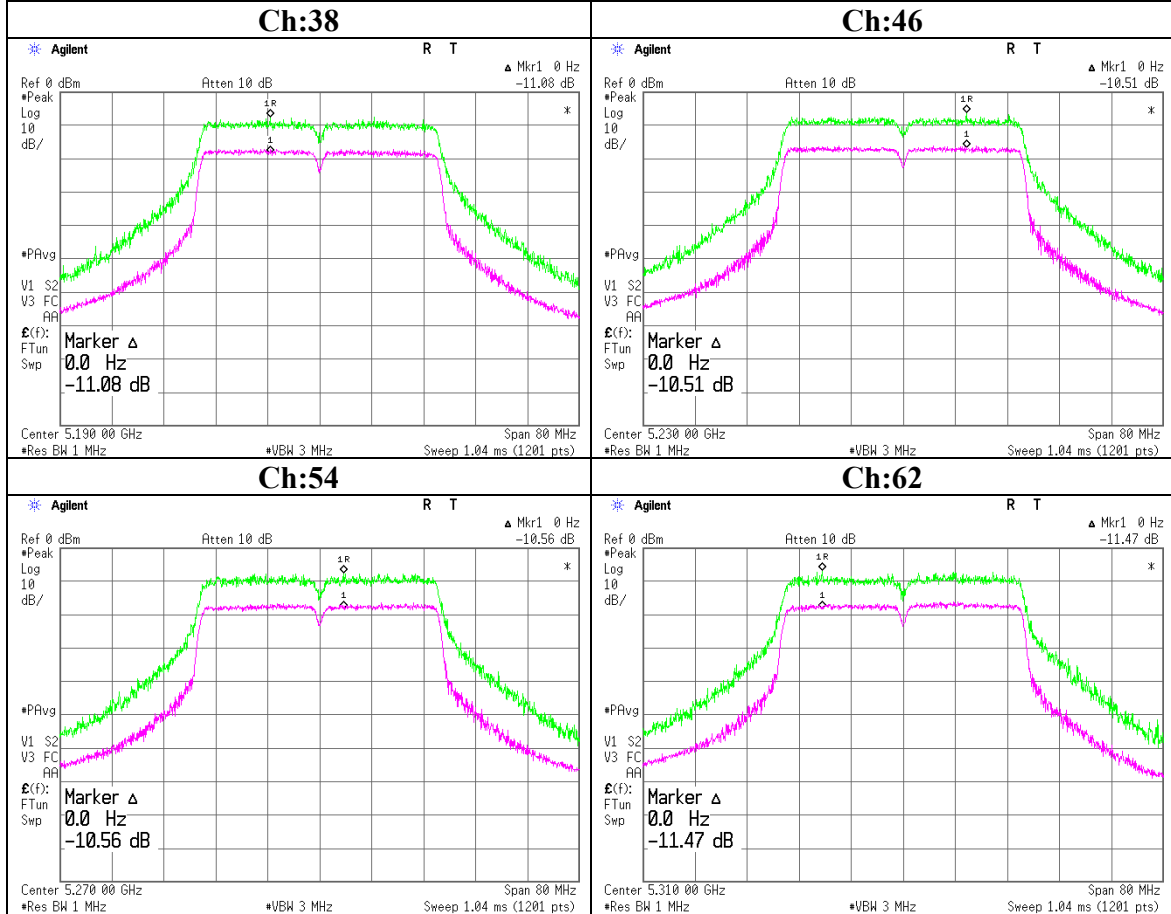
Telephone : +81 596 24 8116

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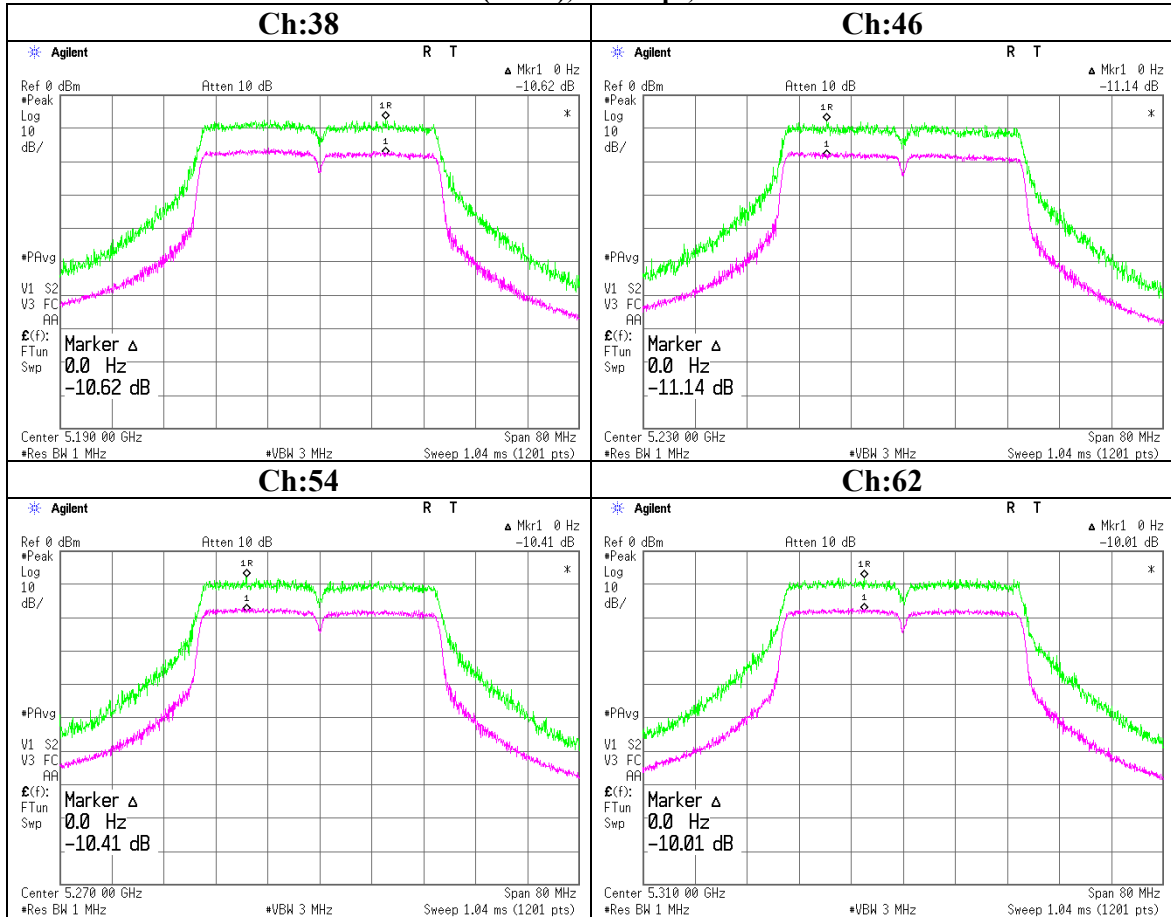
**Peak Excursion Ratio**  
**11n(40HT), 270Mbps, Antenna 1**



**Peak Excursion Ratio**  
**11n(40HT), 270Mbps, Antenna 2**



**Peak Excursion Ratio**  
**11n(40HT), 270Mbps, Antenna 3**



## APPENDIX 3: Test instruments

### EMI test equipment (1/2)

| Control No.  | Instrument                        | Manufacturer      | Model No                 | Serial No               | Test Item | Calibration Date *<br>Interval(month) |
|--------------|-----------------------------------|-------------------|--------------------------|-------------------------|-----------|---------------------------------------|
| MAEC-03      | Anechoic Chamber(NSA)             | TDK               | Semi Anechoic Chamber 3m | DA-10005                | RE        | 2009/02/02 * 12                       |
| MOS-13       | Thermo-Hygrometer                 | Custom            | CTH-180                  | -                       | RE        | 2009/02/06 * 12                       |
| MJM-06       | Measure                           | PROMART           | SEN1955                  | -                       | RE        | -                                     |
| CUST-MSTW-14 | EMI measurement program           | TSJ               | TEPTO-DV                 | -                       | RE        | -                                     |
| MSA-09       | Spectrum Analyzer                 | Advantest         | R3273                    | 95090115                | RE        | 2008/12/24 * 12                       |
| MTR-08       | Test Receiver                     | Rohde & Schwarz   | ESCI                     | 100767                  | RE        | 2008/06/12 * 12                       |
| MBA-03       | Biconical Antenna                 | Schwarzbeck       | BBA9106                  | 1915                    | RE        | 2009/01/19 * 12                       |
| MLA-03       | Logperiodic Antenna               | Schwarzbeck       | USLP9143                 | 174                     | RE        | 2009/01/10 * 12                       |
| MCC-51       | Coaxial cable                     | UL Japan          | -                        | -                       | RE        | 2008/07/18 * 12                       |
| MAT-30       | Attenuator(6dB)                   | TME               | UFA-01                   | -                       | RE        | 2009/03/02 * 12                       |
| MPA-13       | Pre Amplifier                     | SONOMA INSTRUMENT | 310                      | 260834                  | RE        | 2009/03/18 * 12                       |
| MAEC-02      | Anechoic Chamber(NSA)             | TDK               | Semi Anechoic Chamber 3m | DA-06902                | RE        | 2008/04/17 * 12                       |
| MOS-22       | Thermo-Hygrometer                 | Custom            | CTH-201                  | 0003                    | RE        | 2009/02/05 * 12                       |
| MJM-05       | Measure                           | PROMART           | SEN1955                  | -                       | RE        | -                                     |
| MRENT-62     | Spectrum Analyzer                 | Agilent           | E4448A                   | MY46180856              | RE        | 2008/11/25 * 12                       |
| MTR-03       | Test Receiver                     | Rohde & Schwarz   | ESCI                     | 100300                  | RE        | 2008/04/02 * 12                       |
| MBA-02       | Biconical Antenna                 | Schwarzbeck       | BBA9106                  | VHA91032008             | RE        | 2008/10/18 * 12                       |
| MLA-02       | Logperiodic Antenna               | Schwarzbeck       | USLP9143                 | 201                     | RE        | 2008/10/18 * 12                       |
| MCC-12       | Coaxial Cable                     | Fujikura/Agilent  | -                        | -                       | RE        | 2009/02/16 * 12                       |
| MAT-07       | Attenuator(6dB)                   | Weinschel Corp    | 2                        | BK7970                  | RE        | 2008/11/14 * 12                       |
| MPA-09       | Pre Amplifier                     | Agilent           | 8447D                    | 2944A10845              | RE        | 2008/09/04 * 12                       |
| MAEC-04      | Anechoic Chamber(NSA)             | TDK               | Semi Anechoic Chamber 3m | DA-10005                | RE/CE     | 2009/02/03 * 12                       |
| MOS-15       | Thermo-Hygrometer                 | Custom            | CTH-180                  | -                       | RE/CE     | 2009/02/06 * 12                       |
| MJM-07       | Measure                           | PROMART           | SEN1955                  | -                       | RE/CE     | -                                     |
| CUST-MSTW-14 | EMI measurement program           | TSJ               | TEPTO-DV                 | -                       | RE/CE     | -                                     |
| MSA-04       | Spectrum Analyzer                 | Agilent           | E4448A                   | US44300523              | RE/AT     | 2008/08/18 * 12                       |
| MHA-21       | Horn Antenna 1-18GHz              | Schwarzbeck       | BBHA9120D                | 9120D-557               | RE        | 2008/08/11 * 12                       |
| MCC-57       | Microwave Cable 1G-26.5GHz (6.0m) | Suhner            | SUCOFLEX104              | 246769(1m) / 292411(5m) | RE        | 2008/11/05 * 12                       |
| MPA-12       | MicroWave System Amplifier        | Agilent           | 83017A                   | MY39500780              | RE        | 2009/03/19 * 12                       |
| MHA-17       | Horn Antenna 15-40GHz             | Schwarzbeck       | BBHA9170                 | BBHA9170307             | RE        | 2008/04/30 * 12                       |
| MCC-79       | Microwave Cable 1G-26.5GHz        | Suhner            | SUCOFLEX104              | 278923/4                | RE        | 2008/12/17 * 12                       |
| MHF-23       | High Pass Filter 7-20GHz          | TOKIMEC           | TF37NCCC                 | 603                     | RE        | 2009/01/23 * 12                       |
| MOS-19       | Thermo-Hygrometer                 | Custom            | CTH-201                  | 0001                    | AT        | 2008/12/08 * 12                       |
| MSA-10       | Spectrum Analyzer                 | Agilent           | E4448A                   | MY46180655              | AT        | 2009/02/25 * 12                       |
| MCC-37       | Microwave Cable                   | Hirose Electric   | U.FL-2LP-066-A-(200)     | -                       | AT        | 2008/11/18 * 12                       |
| MCC-66       | Microwave Cable 1G-40GHz          | Schner            | SUCOFLEX102              | 28636/2                 | AT        | 2008/04/04 * 12                       |
| MAT-25       | Attenuator(10dB)(above 1GHz)      | Agilent           | 8493C                    | 71642                   | AT        | 2008/06/25 * 12                       |

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**EMI test equipment (2/2)**

| Control No. | Instrument                       | Manufacturer             | Model No             | Serial No              | Test Item | Calibration Date *<br>Interval(month) |
|-------------|----------------------------------|--------------------------|----------------------|------------------------|-----------|---------------------------------------|
| MRENT-67    | Spectrum Analyzer                | Agilent                  | E4448A               | MY46180855             | RE        | 2008/04/02 * 12                       |
| MOS-23      | Thermo-Hygrometer                | Custom                   | CTH-201              | 0004                   | AT        | 2008/12/08 * 12                       |
| MSA-05      | Spectrum Analyzer                | Advantest                | R3273                | 160400285              | RE/CE     | 2008/06/25 * 12                       |
| MTR-07      | Test Receiver                    | Rohde & Schwarz          | ESCI                 | 100635                 | CE        | 2008/10/03 * 12                       |
| MLS-07      | LISN(AMN)                        | Schwarzbeck              | NSLK8127             | 8127364                | CE (EUT)  | 2009/02/18 * 12                       |
| MCC-50      | Coaxial cable                    | UL Japan                 | -                    | -                      | CE        | 2009/03/18 * 12                       |
| MCC-35      | Microwave Cable                  | Hirose Electric          | U.FL-2LP-066-A-(200) | -                      | AT        | 2008/11/18 * 12                       |
| MCC-36      | Microwave Cable                  | Hirose Electric          | U.FL-2LP-066-A-(200) | -                      | AT        | 2008/11/18 * 12                       |
| MTA-09      | Terminator                       | HP                       | HP 909D              | 03745                  | AT        | 2009/02/12 * 12                       |
| MPS-02      | Power Splitter                   | Mini-Circuits            | ZN4PD1-63-S+         | 001                    | AT        | 2008/05/02 * 12                       |
| MCC-54      | Microwave Cable 1G-40GHz         | Suhner                   | SUCOFLEX101          | 2873(1m) /<br>2876(5m) | RE        | 2009/03/02 * 12                       |
| MPA-03      | Microwave System Power Amplifier | Agilent                  | 83050A               | 3950M00205             | RE        | 2008/06/26 * 12                       |
| MAT-20      | Attenuator(10dB)(above 1GHz)     | HIROSE ELECTRIC CO.,LTD. | AT-110               | -                      | AT        | 2009/01/16 * 12                       |
| MCC-67      | Microwave Cable 1G-40GHz         | Schner                   | SUCOFLEX102          | 28635/2                | AT        | 2009/04/24 * 12                       |

**The expiration date of the calibration is the end of the expired month.**

**All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.**

**As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.**

**Test Item: CE: Conducted Emission**

**RE: Radiated Emission**

**AT: Antenna Terminal Conducted test**

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