

**Radiated Emissions Test Data**

|            |                      |               |                |            |           |
|------------|----------------------|---------------|----------------|------------|-----------|
| Company:   | Sierra Wireless Inc. | Model #:      | Aircard 510    | Req:       | FCC 2.993 |
| EUT:       |                      | S/N or FCC #: |                | Test Dist: | 3 meters  |
| Project #: |                      | Test Date:    | March 30, 2000 | TP:        | 0.20 Watt |
| Test Mode: | Tx@Low               | Engineer:     | Xi Ming Y.     | Min. Attn: | 36.01 dBc |

|         | Antenna Used |        |           | Pre-Amp Used |           |          | Cable Used |      |          | Transducer Used |  |
|---------|--------------|--------|-----------|--------------|-----------|----------|------------|------|----------|-----------------|--|
| Number: | 2            | 21     | 8         | 13           | 8         | 10       | 0          | 0    | 12       | 0               |  |
| Model:  | EMCO 3143    | 3160-9 | EMCO 3115 | ACO/400      | CDI_P1000 | AFT18855 | None       | None | Grrn_M+L | None            |  |

| Frequency MHz | Reading dB(μV) | Detector P/A/Q | Ant # | Amp # | Ant. Pol. H/V | Ant. Factor dB(1/m) | Pre-Amp dB | Insert. Loss dB | Net dB(μV/m) | ERP mW   | Attn. dBc | Margin dB |
|---------------|----------------|----------------|-------|-------|---------------|---------------------|------------|-----------------|--------------|----------|-----------|-----------|
| 1851.29       | 90.8           | Ave.           | 8     | 0     | V             | 27.2                | 0.0        | 2.1             | 120.1        | 1.87E+02 | 0.0       | N/A       |
| 3702.28       | 40.0           | Ave.           | 8     | 8     | V             | 33.1                | 27.8       | 2.7             | 48.0         | 1.14E-05 | 72.2      | -36.1     |
| 5553.28       | 31.6           | Ave.           | 8     | 8     | V             | 36.2                | 28.3       | 3.7             | 43.2         | 3.84E-06 | 76.9      | -40.9     |
| 7405.22       | 42.6           | Ave.           | 8     | 8     | V             | 38.0                | 28.0       | 4.3             | 56.9         | 8.98E-05 | 63.2      | -27.2     |
| 9256.41       | 34.0           | Ave.           | 8     | 8     | V             | 40.4                | 27.0       | 4.7             | 52.1         | 2.99E-05 | 68.0      | -32.0     |
| 11107.49      | 40.0           | Ave.           | 8     | 10    | V             | 40.6                | 39.9       | 5.6             | 46.3         | 7.80E-06 | 73.8      | -37.8     |
| 12958.49      | 31.0           | Ave.           | 8     | 10    | V             | 41.6                | 39.1       | 6.1             | 39.6         | 1.65E-06 | 80.6      | -44.5     |
| 14809.49      | 28.8           | Ave.           | 8     | 10    | V             | 42.1                | 37.4       | 6.8             | 40.3         | 1.94E-06 | 79.9      | -43.8     |
| 16660.49      | 28.8           | Ave.           | 8     | 10    | V             | 41.5                | 39.4       | 7.2             | 38.1         | 1.17E-06 | 82.1      | -46.0     |
| 18511.49      | 26.0           | Ave.           | 21    | 13    | V             | 40.2                | 23.3       | 7.6             | 50.5         | 2.05E-05 | 69.6      | -33.6     |
|               |                |                |       |       |               |                     |            |                 |              |          |           | ---       |
|               |                |                |       |       |               |                     |            |                 |              |          |           | ---       |
|               |                |                |       |       |               |                     |            |                 |              |          |           | ---       |
|               |                |                |       |       |               |                     |            |                 |              |          |           | ---       |
|               |                |                |       |       |               |                     |            |                 |              |          |           | ---       |
|               |                |                |       |       |               |                     |            |                 |              |          |           | ---       |

**Notes:**

- a) O.C.F. = Other Correction Factor
- b) Insert Loss = Cable A + Cable B + Cable C + Transducer.
- c) Net = Reading + Antenna Factor - Pre-Amp + Insert. Loss.
- d) Attn. = Field Strength (Fundamental) - Field Strength (Harmonics).
- e) Negative signs (-) in Margin column signify levels below the limits.



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|            |                      |               |                |            |           |
|------------|----------------------|---------------|----------------|------------|-----------|
| Company:   | Sierra Wireless Inc. | Model #:      | Aircard 510    | Req:       | FCC 2.993 |
| EUT:       |                      | S/N or FCC #: |                | Test Dist: | 3 meters  |
| Project #: |                      | Test Date:    | March 30, 2000 | TP:        | 0.20 Watt |
| Test Mode: | Tx@High Ch.          | Engineer:     | Xi Ming Y.     | Min. Attn: | 36.01 dBc |

| Number: | Antenna Used |        |           | Pre-Amp Used |           |          | Cable Used |      |         | Transducer Used |
|---------|--------------|--------|-----------|--------------|-----------|----------|------------|------|---------|-----------------|
|         | 2            | 21     | 8         | 13           | 8         | 10       | 0          | 0    | 12      | 0               |
| Model:  | EMCO 3143    | 3160-8 | EMCO 3115 | ACO/400      | CDL_P1000 | AFT18855 | None       | None | Gri_M+L | None            |

| Frequency MHz | Reading dB(μV) | Detector P/A/O | Ant # | Amp # | Ant. Pol. H/V | Ant. Factor dB(1m) | Pre-Amp dB | Insert. Loss dB | Net dB(μV/m) | ERP mW   | Attn. dBc | Margin dB |
|---------------|----------------|----------------|-------|-------|---------------|--------------------|------------|-----------------|--------------|----------|-----------|-----------|
| 1908.80       | 89.0           | Ave.           | 8     | 0     | V             | 27.2               | 0.0        | 2.1             | 118.3        | 1.24E+02 | 0.0       | N/A       |
| 3817.80       | 37.0           | Ave.           | 8     | 8     | V             | 33.1               | 27.8       | 2.7             | 45.0         | 5.72E-06 | 73.4      | -37.3     |
| 5726.70       | 29.0           | Ave.           | 8     | 8     | V             | 36.2               | 28.3       | 3.7             | 40.6         | 2.11E-06 | 77.7      | -41.7     |
| 7635.00       | 43.8           | Ave.           | 8     | 8     | V             | 37.8               | 27.8       | 4.6             | 58.4         | 1.25E-04 | 60.0      | -23.9     |
| 9543.90       | 31.0           | Ave.           | 8     | 8     | V             | 39.3               | 27.3       | 5.0             | 48.0         | 1.15E-05 | 70.3      | -34.3     |
| 11452.80      | 42.2           | Ave.           | 8     | 10    | V             | 40.6               | 39.9       | 5.6             | 48.5         | 1.30E-05 | 69.8      | -33.8     |
| 13361.70      | 34.0           | Ave.           | 8     | 10    | V             | 41.0               | 39.2       | 6.1             | 41.9         | 2.83E-06 | 76.4      | -40.4     |
| 15270.60      | 30.0           | Ave.           | 8     | 10    | V             | 42.3               | 38.3       | 6.6             | 40.6         | 2.11E-06 | 77.7      | -41.7     |
| 17179.50      | 30.0           | Ave.           | 8     | 10    | V             | 43.8               | 38.8       | 7.5             | 42.5         | 3.24E-06 | 75.8      | -39.8     |
| 19088.40      | 26.0           | Ave.           | 21    | 13    | V             | 40.2               | 23.3       | 7.7             | 50.6         | 2.10E-05 | 67.7      | -31.7     |
|               |                |                |       |       |               |                    |            |                 |              |          |           | ---       |
|               |                |                |       |       |               |                    |            |                 |              |          |           | ---       |
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|               |                |                |       |       |               |                    |            |                 |              |          |           | ---       |
|               |                |                |       |       |               |                    |            |                 |              |          |           | ---       |
|               |                |                |       |       |               |                    |            |                 |              |          |           | ---       |
|               |                |                |       |       |               |                    |            |                 |              |          |           | ---       |
|               |                |                |       |       |               |                    |            |                 |              |          |           | ---       |

- Notes:
- O.C.F.: Other Correction Factor
  - Insert. Loss = Cable A + Cable B + Cable C + Transducer.
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