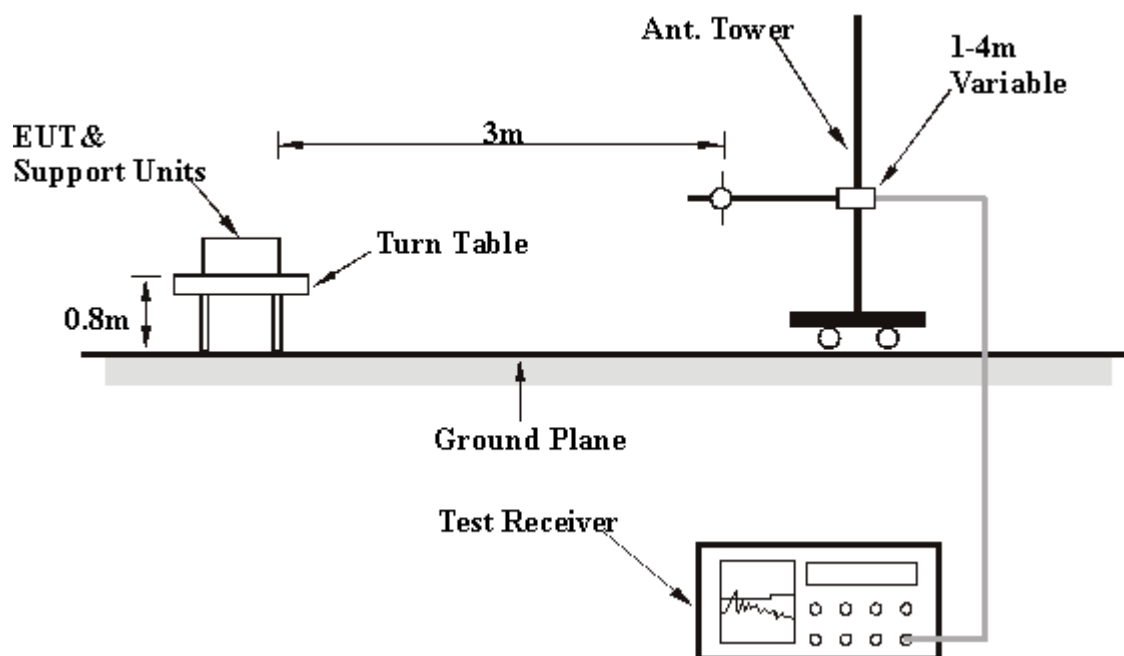


## 5.2.6 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

## 5.2.7 EUT OPERATING CONDITIONS

Same as 4.1.6

## 5.2.8 TEST RESULTS

## Mode 1

|                                     |                                           |                                |               |
|-------------------------------------|-------------------------------------------|--------------------------------|---------------|
| <b>EUT</b>                          | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>                   | GL2554MP-1A   |
| <b>MODE</b>                         | Channel 11                                | <b>FREQUENCY<br/>RANGE</b>     | Below 1000MHz |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120Vac, 60Hz                              | <b>DETECTOR<br/>FUNCTION</b>   | Quasi-Peak    |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>TESTED BY:</b> Hardaway Lee |               |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 131.90         | 30.17 QP                      | 43.50             | -13.33         | 2.15 H                   | 111                        | 17.71                  | 12.46                          |
| 2   | 167.43         | 40.00 QP                      | 43.50             | -3.50          | 1.71 H                   | 163                        | 29.39                  | 10.61                          |
| 3   | 199.85         | 30.62 QP                      | 43.50             | -12.88         | 1.56 H                   | 65                         | 19.86                  | 10.76                          |
| 4   | 211.98         | 32.68 QP                      | 43.50             | -10.82         | 1.30 H                   | 243                        | 21.24                  | 11.44                          |
| 5   | 217.55         | 35.54 QP                      | 46.00             | -10.46         | 1.49 H                   | 59                         | 23.78                  | 11.76                          |
| 6   | 233.50         | 33.53 QP                      | 46.00             | -12.47         | 1.59 H                   | 260                        | 20.86                  | 12.67                          |
| 7   | 260.98         | 34.32 QP                      | 46.00             | -11.68         | 1.59 H                   | 304                        | 19.20                  | 15.12                          |
| 8   | 457.00         | 39.03 QP                      | 46.00             | -6.97          | 1.01 H                   | 35                         | 19.98                  | 19.05                          |
| 9   | 503.00         | 36.48 QP                      | 46.00             | -9.52          | 1.01 H                   | 140                        | 16.31                  | 20.17                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 129.00         | 29.54 QP                      | 43.50             | -13.96         | 1.01 V                   | 0                          | 16.93                  | 12.61                          |
| 2   | 166.90         | 34.82 QP                      | 43.50             | -8.68          | 1.01 V                   | 147                        | 24.21                  | 10.61                          |
| 3   | 202.65         | 28.46 QP                      | 43.50             | -15.04         | 1.01 V                   | 157                        | 17.55                  | 10.91                          |
| 4   | 225.05         | 37.60 QP                      | 46.00             | -8.40          | 1.01 V                   | 309                        | 25.41                  | 12.19                          |
| 5   | 280.93         | 32.37 QP                      | 46.00             | -13.63         | 1.72 V                   | 32                         | 17.02                  | 15.35                          |
| 6   | 400.00         | 30.60 QP                      | 46.00             | -15.40         | 1.05 V                   | 324                        | 12.36                  | 18.24                          |
| 7   | 469.00         | 35.52 QP                      | 46.00             | -10.48         | 1.05 V                   | 345                        | 16.17                  | 19.35                          |
| 8   | 800.50         | 33.58 QP                      | 46.00             | -12.42         | 1.66 V                   | 249                        | 9.88                   | 23.70                          |

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  5. Margin value = Emission level – Limit value.

**Mode 2**

|                                     |                                           |                                |               |
|-------------------------------------|-------------------------------------------|--------------------------------|---------------|
| <b>EUT</b>                          | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>                   | GL2554MP-1A   |
| <b>MODE</b>                         | Channel 11                                | <b>FREQUENCY<br/>RANGE</b>     | Below 1000MHz |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120Vac, 60Hz                              | <b>DETECTOR<br/>FUNCTION</b>   | Quasi-Peak    |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>TESTED BY:</b> Hardaway Lee |               |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 133.38         | 40.18 QP                      | 43.50             | -3.32          | 2.10 H                   | 120                        | 27.80                  | 12.38                          |
| 2   | 167.13         | 30.11 QP                      | 43.50             | -13.39         | 2.17 H                   | 216                        | 19.50                  | 10.61                          |
| 3   | 200.58         | 31.11 QP                      | 43.50             | -12.39         | 2.06 H                   | 207                        | 20.32                  | 10.79                          |
| 4   | 233.15         | 33.42 QP                      | 46.00             | -12.58         | 1.59 H                   | 228                        | 20.77                  | 12.65                          |
| 5   | 301.00         | 35.18 QP                      | 46.00             | -10.82         | 1.01 H                   | 120                        | 19.51                  | 15.67                          |
| 6   | 326.00         | 32.23 QP                      | 46.00             | -13.77         | 1.25 H                   | 218                        | 16.19                  | 16.04                          |
| 7   | 501.00         | 33.90 QP                      | 46.00             | -12.10         | 1.01 H                   | 27                         | 13.76                  | 20.14                          |
| 8   | 802.00         | 36.27 QP                      | 46.00             | -9.73          | 1.57 H                   | 1                          | 12.55                  | 23.72                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 133.55         | 30.47 QP                      | 43.50             | -13.03         | 1.01 V                   | 159                        | 18.09                  | 12.38                          |
| 2   | 167.75         | 26.60 QP                      | 43.50             | -16.90         | 1.01 V                   | 347                        | 16.00                  | 10.60                          |
| 3   | 196.65         | 28.34 QP                      | 43.50             | -15.16         | 1.01 V                   | 12                         | 17.63                  | 10.71                          |
| 4   | 200.00         | 26.75 QP                      | 43.50             | -16.75         | 2.15 V                   | 259                        | 15.99                  | 10.76                          |
| 5   | 225.05         | 30.21 QP                      | 46.00             | -15.79         | 1.50 V                   | 133                        | 18.02                  | 12.19                          |
| 6   | 260.98         | 33.29 QP                      | 46.00             | -12.71         | 1.84 V                   | 332                        | 18.17                  | 15.12                          |
| 7   | 375.00         | 31.46 QP                      | 46.00             | -14.54         | 1.23 V                   | 303                        | 14.14                  | 17.32                          |
| 8   | 457.00         | 38.05 QP                      | 46.00             | -7.95          | 1.39 V                   | 162                        | 19.00                  | 19.05                          |
| 9   | 498.00         | 35.95 QP                      | 46.00             | -10.05         | 1.83 V                   | 139                        | 15.87                  | 20.08                          |
| 10  | 913.00         | 34.20 QP                      | 46.00             | -11.80         | 1.23 V                   | 344                        | 9.69                   | 24.51                          |

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.

**Mode 3**

|                                 |                                           |                              |               |
|---------------------------------|-------------------------------------------|------------------------------|---------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>                 | GL2554MP-1A   |
| <b>MODE</b>                     | Channel 11                                | <b>FREQUENCY RANGE</b>       | Below 1000MHz |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>DETECTOR FUNCTION</b>     | Quasi-Peak    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>TESTED BY:</b> Martin Lee |               |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 33.23          | 28.83 QP                      | 40.00             | -11.17         | 2.00 H                   | 10                         | 15.62                  | 13.22                          |
| 2   | 66.64          | 35.12 QP                      | 40.00             | -4.88          | 3.00 H                   | 10                         | 22.78                  | 12.34                          |
| 3   | 99.66          | 41.07 QP                      | 43.50             | -2.43          | 2.88 H                   | 360                        | 30.81                  | 10.26                          |
| 4   | 133.47         | 34.98 QP                      | 43.50             | -8.52          | 3.00 H                   | 244                        | 21.68                  | 13.30                          |
| 5   | 166.88         | 31.26 QP                      | 43.50             | -12.24         | 2.00 H                   | 292                        | 17.60                  | 13.67                          |
| 6   | 199.21         | 34.07 QP                      | 43.50             | -9.43          | 1.00 H                   | 280                        | 22.83                  | 11.24                          |
| 7   | 232.62         | 35.94 QP                      | 46.00             | -10.06         | 1.50 H                   | 22                         | 23.13                  | 12.81                          |
| 8   | 311.30         | 35.17 QP                      | 46.00             | -10.83         | 1.00 H                   | 298                        | 19.78                  | 15.39                          |
| 9   | 354.41         | 33.88 QP                      | 46.00             | -12.12         | 1.00 H                   | 82                         | 17.34                  | 16.53                          |
| 10  | 400.76         | 36.52 QP                      | 46.00             | -9.48          | 1.00 H                   | 16                         | 18.79                  | 17.73                          |
| 11  | 601.22         | 36.73 QP                      | 46.00             | -9.27          | 1.50 H                   | 40                         | 14.12                  | 22.62                          |
| 12  | 733.79         | 33.28 QP                      | 46.00             | -12.72         | 1.50 H                   | 112                        | 8.38                   | 24.91                          |
| 13  | 799.53         | 31.28 QP                      | 46.00             | -14.72         | 1.00 H                   | 238                        | 5.66                   | 25.62                          |
| 14  | 831.87         | 30.01 QP                      | 46.00             | -15.99         | 1.50 H                   | 22                         | 4.06                   | 25.95                          |
| 15  | 867.43         | 32.28 QP                      | 46.00             | -13.72         | 1.00 H                   | 40                         | 5.79                   | 26.49                          |
| 16  | 899.77         | 30.38 QP                      | 46.00             | -15.62         | 1.00 H                   | 64                         | 3.25                   | 27.14                          |
| 17  | 934.26         | 37.89 QP                      | 46.00             | -8.11          | 1.00 H                   | 172                        | 10.36                  | 27.53                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 38.62          | 27.93 QP                      | 40.00             | -12.07         | 1.00 V                   | 340                        | 13.79                  | 14.14                          |
| 2   | 73.11          | 32.26 QP                      | 40.00             | -7.74          | 1.00 V                   | 340                        | 21.15                  | 11.11                          |
| 3   | 162.57         | 28.35 QP                      | 43.50             | -15.15         | 1.00 V                   | 274                        | 14.29                  | 14.05                          |
| 4   | 284.36         | 32.00 QP                      | 46.00             | -14.00         | 2.00 V                   | 178                        | 17.27                  | 14.73                          |
| 5   | 321.00         | 37.89 QP                      | 46.00             | -8.11          | 1.50 V                   | 202                        | 22.24                  | 15.65                          |
| 6   | 353.33         | 33.26 QP                      | 46.00             | -12.74         | 2.00 V                   | 190                        | 16.76                  | 16.51                          |
| 7   | 601.22         | 30.18 QP                      | 46.00             | -15.82         | 1.50 V                   | 130                        | 7.57                   | 22.62                          |
| 8   | 664.81         | 37.30 QP                      | 46.00             | -8.70          | 1.00 V                   | 142                        | 13.84                  | 23.47                          |
| 9   | 934.26         | 36.04 QP                      | 46.00             | -9.96          | 1.00 V                   | 358                        | 8.50                   | 27.53                          |

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value

**Mode 4**

|                                 |                                           |                              |               |
|---------------------------------|-------------------------------------------|------------------------------|---------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>                 | GL2554MP-1A   |
| <b>MODE</b>                     | Channel 11                                | <b>FREQUENCY RANGE</b>       | Below 1000MHz |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>DETECTOR FUNCTION</b>     | Quasi-Peak    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>TESTED BY:</b> Martin Lee |               |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 33.23          | 28.91 QP                      | 40.00             | -11.09         | 3.00 H                   | 10                         | 15.69                  | 13.22                          |
| 2   | 66.64          | 35.19 QP                      | 40.00             | -4.81          | 1.50 H                   | 358                        | 22.85                  | 12.34                          |
| 3   | 100.06         | 40.20 QP                      | 43.50             | -3.30          | 2.00 H                   | 22                         | 29.90                  | 10.30                          |
| 4   | 133.47         | 32.47 QP                      | 43.50             | -11.03         | 1.50 H                   | 304                        | 19.17                  | 13.30                          |
| 5   | 166.88         | 32.18 QP                      | 43.50             | -11.32         | 1.50 H                   | 298                        | 18.51                  | 13.67                          |
| 6   | 200.29         | 35.30 QP                      | 43.50             | -8.20          | 1.50 H                   | 268                        | 24.10                  | 11.20                          |
| 7   | 232.62         | 33.83 QP                      | 46.00             | -12.17         | 1.50 H                   | 352                        | 21.02                  | 12.81                          |
| 8   | 284.36         | 34.03 QP                      | 46.00             | -11.97         | 1.00 H                   | 286                        | 19.30                  | 14.73                          |
| 9   | 333.93         | 36.15 QP                      | 46.00             | -9.85          | 1.00 H                   | 214                        | 20.16                  | 15.99                          |
| 10  | 366.27         | 32.10 QP                      | 46.00             | -13.90         | 1.00 H                   | 346                        | 15.26                  | 16.84                          |
| 11  | 398.60         | 39.76 QP                      | 46.00             | -6.24          | 1.00 H                   | 238                        | 22.09                  | 17.67                          |
| 12  | 467.58         | 33.08 QP                      | 46.00             | -12.92         | 1.00 H                   | 208                        | 13.53                  | 19.55                          |
| 13  | 601.22         | 38.64 QP                      | 46.00             | -7.36          | 1.50 H                   | 28                         | 16.02                  | 22.62                          |
| 14  | 654.03         | 31.46 QP                      | 46.00             | -14.54         | 1.00 H                   | 322                        | 8.15                   | 23.31                          |
| 15  | 733.79         | 32.80 QP                      | 46.00             | -13.20         | 1.50 H                   | 100                        | 7.90                   | 24.91                          |
| 16  | 801.69         | 31.55 QP                      | 46.00             | -14.45         | 1.00 H                   | 208                        | 5.91                   | 25.64                          |
| 17  | 867.43         | 32.45 QP                      | 46.00             | -13.55         | 1.00 H                   | 82                         | 5.97                   | 26.49                          |
| 18  | 934.26         | 37.43 QP                      | 46.00             | -8.57          | 1.00 H                   | 58                         | 9.90                   | 27.53                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 33.23          | 34.34 QP                      | 40.00             | -5.66          | 1.00 V                   | 358                        | 21.13                  | 13.22                          |
| 2   | 66.64          | 35.62 QP                      | 40.00             | -4.38          | 1.00 V                   | 46                         | 23.28                  | 12.34                          |
| 3   | 162.57         | 28.98 QP                      | 43.50             | -14.52         | 1.00 V                   | 322                        | 14.93                  | 14.05                          |
| 4   | 200.29         | 29.77 QP                      | 43.50             | -13.73         | 2.00 V                   | 262                        | 18.56                  | 11.20                          |
| 5   | 310.22         | 33.59 QP                      | 46.00             | -12.41         | 2.00 V                   | 220                        | 18.23                  | 15.36                          |
| 6   | 352.26         | 33.01 QP                      | 46.00             | -12.99         | 2.00 V                   | 148                        | 16.53                  | 16.48                          |
| 7   | 533.32         | 37.30 QP                      | 46.00             | -8.70          | 1.00 V                   | 256                        | 16.55                  | 20.75                          |
| 8   | 601.22         | 32.26 QP                      | 46.00             | -13.74         | 1.50 V                   | 118                        | 9.65                   | 22.62                          |
| 9   | 794.14         | 32.82 QP                      | 46.00             | -13.18         | 1.50 V                   | 274                        | 7.24                   | 25.59                          |
| 10  | 934.26         | 36.90 QP                      | 46.00             | -9.10          | 1.50 V                   | 142                        | 9.37                   | 27.53                          |

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value

## 5.2.9 TEST RESULTS (MODE 1)

**NORMAL MODE**

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 1                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Hardaway Lee             |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | #5150.00       | 45.00 PK                      | 74.00             | -29.00         | 1.00 H                   | 354                        | 8.80                   | 36.20                          |
| 2   | *5180.00       | 96.30 PK                      |                   |                | 1.00 H                   | 354                        | 60.10                  | 36.20                          |
| 2   | *5180.00       | 87.10 AV                      |                   |                | 1.00 H                   | 354                        | 50.90                  | 36.20                          |
| 3   | 10358.00       | 56.40 PK                      | 71.30             | -14.90         | 1.29 H                   | 354                        | 11.90                  | 44.50                          |
| 4   | #15543.00      | 61.90 PK                      | 74.00             | -12.10         | 1.22 H                   | 16                         | 15.10                  | 46.70                          |
| 4   | #15543.00      | 48.50 AV                      | 54.00             | -5.50          | 1.22 H                   | 16                         | 1.70                   | 46.70                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | #5150.00       | 60.40 PK                      | 74.00             | -13.60         | 1.00 V                   | 135                        | 24.20                  | 36.20                          |
| 1   | #5150.00       | 50.60 AV                      | 54.00             | -3.40          | 1.00 V                   | 135                        | 14.40                  | 36.20                          |
| 2   | *5180.00       | 111.70 PK                     |                   |                | 1.00 V                   | 135                        | 75.50                  | 36.20                          |
| 2   | *5180.00       | 101.90 AV                     |                   |                | 1.00 V                   | 135                        | 65.70                  | 36.20                          |
| 3   | 6844.00        | 59.80 PK                      | 71.30             | -11.50         | 1.00 V                   | 34                         | 19.60                  | 40.20                          |
| 4   | 10354.00       | 56.00 PK                      | 71.30             | -15.30         | 1.00 V                   | 34                         | 11.50                  | 44.50                          |
| 5   | #15545.00      | 52.40 PK                      | 74.00             | -21.60         | 1.03 V                   | 353                        | 18.60                  | 46.70                          |
| 5   | #15545.00      | 37.70 AV                      | 54.00             | -16.30         | 1.03 V                   | 353                        | 5.00                   | 46.70                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” : Fundamental frequency
6. “#” : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 4                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Hardaway Lee             |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5240.00       | 95.53 PK                      |                   |                | 1.80 H                   | 291                        | 59.20                  | 36.33                          |
| 1   | *5240.00       | 88.33 AV                      |                   |                | 1.80 H                   | 291                        | 52.00                  | 36.33                          |
| 2   | 10480.00       | 57.70 PK                      | 71.30             | -13.60         | 1.51 H                   | 238                        | 13.00                  | 44.70                          |
| 3   | #15720.00      | 63.59 PK                      | 74.00             | -10.41         | 1.64 H                   | 248                        | 17.09                  | 46.51                          |
| 3   | #15720.00      | 49.52 AV                      | 54.00             | -4.48          | 1.64 H                   | 248                        | 3.02                   | 46.51                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5240.00       | 111.02 PK                     |                   |                | 1.37 V                   | 0                          | 74.69                  | 36.33                          |
| 1   | *5240.00       | 101.66 AV                     |                   |                | 1.37 V                   | 0                          | 65.33                  | 36.33                          |
| 2   | 10480.00       | 56.40 PK                      | 71.30             | -14.90         | 1.73 V                   | 235                        | 11.70                  | 44.70                          |
| 3   | #15726.00      | 63.99 PK                      | 74.00             | -10.01         | 1.21 V                   | 228                        | 17.49                  | 46.50                          |
| 3   | #15726.00      | 50.27 AV                      | 54.00             | -3.73          | 1.21 V                   | 228                        | 3.77                   | 46.50                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 5                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Hardaway Lee             |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5260.00       | 98.38 PK                      |                   |                | 1.82 H                   | 291                        | 62.02                  | 36.36                          |
| 1   | *5260.00       | 89.80 AV                      |                   |                | 1.82 H                   | 291                        | 53.44                  | 36.36                          |
| 2   | 10520.00       | 58.51 PK                      | 71.30             | -12.79         | 1.63 H                   | 227                        | 13.73                  | 44.78                          |
| 3   | #15780.00      | 61.23 PK                      | 74.00             | -12.77         | 1.52 H                   | 315                        | 14.79                  | 46.43                          |
| 3   | #15780.00      | 48.27 AV                      | 54.00             | -5.73          | 1.52 H                   | 315                        | 1.83                   | 46.43                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5260.00       | 108.97 PK                     |                   |                | 1.36 V                   | 358                        | 72.61                  | 36.36                          |
| 1   | *5260.00       | 99.66 AV                      |                   |                | 1.36 V                   | 358                        | 63.30                  | 36.36                          |
| 2   | 10520.00       | 59.51 PK                      | 71.30             | -11.79         | 1.36 V                   | 247                        | 14.73                  | 44.78                          |
| 3   | #15780.00      | 62.51 PK                      | 74.00             | -11.49         | 1.00 V                   | 8                          | 16.07                  | 46.43                          |
| 3   | #15780.00      | 49.41 AV                      | 54.00             | -4.59          | 1.00 V                   | 8                          | 2.97                   | 46.43                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.



|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 8                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Hardaway Lee             |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5320.00       | 94.40 PK                      |                   |                | 1.24 H                   | 132                        | 57.90                  | 36.40                          |
| 1   | *5320.00       | 85.20 AV                      |                   |                | 1.24 H                   | 132                        | 48.70                  | 36.40                          |
| 2   | #5350.00       | 43.60 PK                      | 74.00             | -30.40         | 1.24 H                   | 132                        | 7.20                   | 36.50                          |
| 3   | #10638.00      | 56.90 PK                      | 74.00             | -17.10         | 1.60 H                   | 315                        | 11.80                  | 45.10                          |
| 3   | #10638.00      | 43.30 AV                      | 54.00             | -10.70         | 1.60 H                   | 315                        | -1.80                  | 45.10                          |
| 4   | #15959.00      | 61.40 PK                      | 74.00             | -12.60         | 1.07 H                   | 18                         | 15.20                  | 46.20                          |
| 4   | #15959.00      | 47.50 AV                      | 54.00             | -6.50          | 1.07 H                   | 18                         | 1.30                   | 46.20                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5320.00       | 106.20 PK                     |                   |                | 1.12 V                   | 131                        | 69.80                  | 36.40                          |
| 1   | *5320.00       | 95.30 AV                      |                   |                | 1.12 V                   | 131                        | 58.90                  | 36.40                          |
| 2   | #5350.00       | 55.50 PK                      | 74.00             | -18.50         | 1.12 V                   | 131                        | 19.00                  | 36.50                          |
| 2   | #5350.00       | 44.50 AV                      | 54.00             | -9.50          | 1.12 V                   | 131                        | 8.10                   | 36.50                          |
| 3   | 7093.00        | 53.70 PK                      | 71.30             | -17.60         | 1.04 V                   | 293                        | 12.90                  | 40.80                          |
| 4   | #10638.00      | 60.00 PK                      | 74.00             | -14.00         | 1.19 V                   | 293                        | 15.00                  | 45.10                          |
| 4   | #10638.00      | 44.30 AV                      | 54.00             | -9.70          | 1.19 V                   | 293                        | -0.70                  | 45.10                          |
| 5   | #15959.00      | 60.30 PK                      | 74.00             | -13.70         | 1.34 V                   | 49                         | 14.10                  | 46.20                          |
| 5   | #15959.00      | 46.70 AV                      | 54.00             | -7.30          | 1.34 V                   | 49                         | 0.50                   | 46.20                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 9                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Hardaway Lee             |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 5715.00        | 60.40 PK                      | 71.30             | -10.90         | 1.18 H                   | 183                        | 23.30                  | 37.10                          |
| 2   | 5725.00        | 68.30 PK                      | 81.30             | -13.00         | 1.18 H                   | 183                        | 31.20                  | 37.10                          |
| 3   | *5745.00       | 94.90 PK                      |                   |                | 1.18 H                   | 183                        | 57.80                  | 37.10                          |
| 3   | *5745.00       | 84.50 AV                      |                   |                | 1.18 H                   | 183                        | 47.40                  | 37.10                          |
| 4   | #11489.00      | 60.40 PK                      | 74.00             | -13.60         | 1.31 H                   | 94                         | 14.70                  | 45.80                          |
| 4   | #11489.00      | 46.90 AV                      | 54.00             | -7.10          | 1.31 H                   | 94                         | 1.20                   | 45.80                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 5715.00        | 62.50 PK                      | 71.30             | -8.80          | 1.09 V                   | 360                        | 25.40                  | 37.10                          |
| 2   | 5725.00        | 73.80 PK                      | 81.30             | -7.50          | 1.09 V                   | 360                        | 36.70                  | 37.10                          |
| 3   | *5745.00       | 108.30 PK                     |                   |                | 1.09 V                   | 360                        | 71.10                  | 37.10                          |
| 3   | *5745.00       | 98.20 AV                      |                   |                | 1.09 V                   | 360                        | 61.00                  | 37.10                          |
| 4   | #11489.00      | 63.50 PK                      | 74.00             | -10.50         | 1.25 V                   | 134                        | 17.70                  | 45.80                          |
| 4   | #11489.00      | 50.50 AV                      | 54.00             | -3.50          | 1.25 V                   | 134                        | 4.70                   | 45.80                          |

**REMARKS:**

7. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
8. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
9. The other emission levels were very low against the limit.
10. Margin value = Emission level – Limit value.
11. “\*” : Fundamental frequency
12. “#” : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 12                       |
| <b>ENVIRONMENTAL CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Hardaway Lee             |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5805.00       | 99.3 PK                       |                   |                | 1.86 H                   | 19                         | 62.10                  | 37.20                          |
| 1   | *5805.00       | 88.9 AV                       |                   |                | 1.86 H                   | 19                         | 51.70                  | 37.20                          |
| 2   | 5825.00        | 70.3 PK                       | 81.30             | -11.00         | 1.86 H                   | 19                         | 33.00                  | 37.30                          |
| 3   | 5835.00        | 62.1 PK                       | 71.30             | -9.20          | 1.86 H                   | 19                         | 24.80                  | 37.30                          |
| 4   | #11604.00      | 59.3 PK                       | 74.00             | -14.70         | 1.12H                    | 88                         | 13.60                  | 45.70                          |
| 4   | #11604.00      | 45.6 AV                       | 54.00             | -8.40          | 1.12H                    | 88                         | -0.1                   | 45.70                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5805.00       | 106.50 PK                     |                   |                | 1.03 V                   | 330                        | 69.30                  | 37.20                          |
| 1   | *5805.00       | 96.80 AV                      |                   |                | 1.03 V                   | 330                        | 59.60                  | 37.20                          |
| 2   | 5825.00        | 75.40 PK                      | 81.30             | -5.90          | 1.03 V                   | 330                        | 38.10                  | 37.30                          |
| 3   | 5835.00        | 60.30 PK                      | 71.30             | -11.00         | 1.03 V                   | 330                        | 23.00                  | 37.30                          |
| 4   | #11604.00      | 65.10 PK                      | 74.00             | -8.90          | 1.22 V                   | 113                        | 19.50                  | 45.70                          |
| 4   | #11604.00      | 50.90 AV                      | 54.00             | -3.10          | 1.22 V                   | 113                        | 5.30                   | 45.70                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” : Fundamental frequency
6. “#” : The radiated frequency falling in the restricted band.

## 5.2.10 TEST RESULTS (MODE 2)

**NORMAL MODE**

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 1                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Jun Wu                   |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | #5150.00       | 49.21 PK                      | 74.00             | -24.79         | 1.17 H                   | 283                        | 13.01                  | 36.20                          |
| 2   | *5180.00       | 99.51 PK                      |                   |                | 1.17 H                   | 283                        | 63.26                  | 36.25                          |
| 2   | *5180.00       | 90.15 AV                      |                   |                | 1.17 H                   | 283                        | 53.90                  | 36.25                          |
| 3   | 6851.00        | 55.86 PK                      | 73.30             | -17.44         | 1.45 H                   | 196                        | 15.86                  | 39.99                          |
| 4   | 10360.00       | 55.95 PK                      | 73.30             | -17.35         | 1.52 H                   | 224                        | 11.45                  | 44.50                          |
| 5   | #15542.00      | 62.12 PK                      | 74.00             | -11.88         | 1.27 H                   | 322                        | 15.38                  | 46.74                          |
| 5   | #15542.00      | 48.18 AV                      | 54.00             | -5.82          | 1.27 H                   | 322                        | 1.44                   | 46.74                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | #5150.00       | 48.50 PK                      | 74.00             | -25.50         | 1.00 V                   | 360                        | 12.30                  | 36.20                          |
| 2   | *5180.00       | 98.80 PK                      |                   |                | 1.00 V                   | 360                        | 62.55                  | 36.25                          |
| 2   | *5180.00       | 90.93 AV                      |                   |                | 1.00 V                   | 360                        | 54.68                  | 36.25                          |
| 3   | 6796.00        | 59.06 PK                      | 73.30             | -14.24         | 1.16 V                   | 174                        | 19.27                  | 39.79                          |
| 4   | 10375.00       | 56.43 PK                      | 73.30             | -16.87         | 1.52 V                   | 2                          | 11.90                  | 44.52                          |
| 5   | #15540.00      | 65.33 PK                      | 74.00             | -8.67          | 1.23 V                   | 331                        | 18.59                  | 46.74                          |
| 5   | #15540.00      | 51.53 AV                      | 54.00             | -2.47          | 1.23 V                   | 331                        | 4.79                   | 46.74                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” : Fundamental frequency
6. “#” : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 4                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Jun Wu                   |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5240.00       | 97.39 PK                      |                   |                | 1.99 H                   | 259                        | 61.06                  | 36.33                          |
| 1   | *5240.00       | 88.26 AV                      |                   |                | 1.99 H                   | 259                        | 51.93                  | 36.33                          |
| 2   | 10479.00       | 61.57 PK                      | 73.30             | -11.73         | 1.39 H                   | 3                          | 16.87                  | 44.70                          |
| 3   | #15718.00      | 60.33 PK                      | 74.00             | -13.67         | 1.56 H                   | 271                        | 13.82                  | 46.51                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5240.00       | 101.17 PK                     |                   |                | 1.00 V                   | 89                         | 64.84                  | 36.33                          |
| 1   | *5240.00       | 91.72 AV                      |                   |                | 1.00 V                   | 89                         | 55.39                  | 36.33                          |
| 2   | 10480.00       | 58.40 PK                      | 73.30             | -14.90         | 1.77 V                   | 332                        | 13.70                  | 44.70                          |
| 3   | #15717.00      | 62.62 PK                      | 74.00             | -11.38         | 1.35 V                   | 300                        | 16.11                  | 46.51                          |
| 3   | #15717.00      | 49.93 AV                      | 54.00             | -4.07          | 1.35 V                   | 300                        | 3.42                   | 46.51                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” : Fundamental frequency
6. “#” : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 5                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Jun Wu                   |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5260.00       | 95.91 PK                      |                   |                | 1.82 H                   | 269                        | 59.55                  | 36.36                          |
| 1   | *5260.00       | 87.08 AV                      |                   |                | 1.82 H                   | 269                        | 50.72                  | 36.36                          |
| 2   | #15780.00      | 60.41 PK                      | 74.00             | -13.59         | 1.38 H                   | 335                        | 13.97                  | 46.43                          |
| 2   | #15780.00      | 48.01 AV                      | 54.00             | -5.99          | 1.38 H                   | 335                        | 1.57                   | 46.43                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5260.00       | 98.57 PK                      |                   |                | 1.98 V                   | 305                        | 62.21                  | 36.36                          |
| 1   | *5260.00       | 90.53 AV                      |                   |                | 1.98 V                   | 305                        | 54.17                  | 36.36                          |
| 2   | #15780.00      | 63.58 PK                      | 74.00             | -10.42         | 1.33 V                   | 264                        | 17.14                  | 46.43                          |
| 2   | #15780.00      | 49.19 AV                      | 54.00             | -4.81          | 1.33 V                   | 264                        | 2.75                   | 46.43                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 8                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Jun Wu                   |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5320.00       | 96.71 PK                      |                   |                | 1.75 H                   | 295                        | 60.27                  | 36.44                          |
| 1   | *5320.00       | 86.50 AV                      |                   |                | 1.75 H                   | 295                        | 50.06                  | 36.44                          |
| 2   | #5350.00       | 44.98 PK                      | 74.00             | -29.02         | 1.75 H                   | 295                        | 8.49                   | 36.49                          |
| 3   | #10640.00      | 56.15 PK                      | 74.00             | -17.85         | 1.54 H                   | 226                        | 11.07                  | 45.08                          |
| 3   | #10640.00      | 41.83 AV                      | 54.00             | -12.17         | 1.54 H                   | 226                        | -3.25                  | 45.08                          |
| 4   | #15960.00      | 60.35 PK                      | 74.00             | -13.65         | 1.27 H                   | 332                        | 14.15                  | 46.20                          |
| 4   | #15960.00      | 47.35 AV                      | 54.00             | -6.65          | 1.27 H                   | 332                        | 1.15                   | 46.20                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5320.00       | 99.05 PK                      |                   |                | 1.01 V                   | 258                        | 62.61                  | 36.44                          |
| 1   | *5320.00       | 88.99 AV                      |                   |                | 1.01 V                   | 258                        | 52.55                  | 36.44                          |
| 2   | #5350.00       | 47.33 PK                      | 74.00             | -26.67         | 1.01 V                   | 258                        | 10.84                  | 36.49                          |
| 3   | #10640.00      | 56.05 PK                      | 74.00             | -17.95         | 1.48 V                   | 24                         | 10.97                  | 45.08                          |
| 3   | #10640.00      | 42.89 AV                      | 54.00             | -11.11         | 1.48 V                   | 24                         | -2.19                  | 45.08                          |
| 4   | #15959.00      | 61.05 PK                      | 74.00             | -12.95         | 1.14 V                   | 356                        | 14.85                  | 46.20                          |
| 4   | #15959.00      | 48.75 AV                      | 54.00             | -5.25          | 1.14 V                   | 356                        | 2.55                   | 46.20                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” : Fundamental frequency
6. “#” : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 9                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Jun Wu                   |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 5715.00        | 66.74 PK                      | 73.30             | -6.56          | 1.93 H                   | 282                        | 29.66                  | 37.08                          |
| 2   | 5725.00        | 68.09 PK                      | 83.30             | -15.21         | 1.93 H                   | 282                        | 30.99                  | 37.10                          |
| 3   | *5745.00       | 99.99 PK                      |                   |                | 1.93 H                   | 282                        | 62.86                  | 37.13                          |
| 3   | *5745.00       | 90.29 AV                      |                   |                | 1.93 H                   | 282                        | 53.16                  | 37.13                          |
| 4   | #11490.00      | 57.15 PK                      | 74.00             | -16.85         | 1.52 H                   | 12                         | 11.40                  | 45.75                          |
| 4   | #11490.00      | 43.61 AV                      | 54.00             | -10.39         | 1.52 H                   | 12                         | -2.14                  | 45.75                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 5710.00        | 65.80 PK                      | 73.30             | -7.50          | 1.69 V                   | 13                         | 28.73                  | 37.07                          |
| 2   | 5725.00        | 71.90 PK                      | 83.30             | -11.40         | 1.69 V                   | 13                         | 34.80                  | 37.10                          |
| 3   | *5745.00       | 102.40 PK                     |                   |                | 1.69 V                   | 13                         | 65.27                  | 37.13                          |
| 3   | *5745.00       | 93.12 AV                      |                   |                | 1.69 V                   | 13                         | 55.99                  | 37.13                          |
| 4   | #11490.00      | 58.31 PK                      | 74.00             | -15.69         | 1.24 V                   | 335                        | 12.56                  | 45.75                          |
| 4   | #11490.00      | 44.41 AV                      | 54.00             | -9.59          | 1.24 V                   | 335                        | -1.34                  | 45.75                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.



|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 12                       |
| <b>ENVIRONMENTAL CONDITIONS</b> | 30deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Jun Wu                   |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5805.00       | 98.73 PK                      |                   |                | 1.79 H                   | 300                        | 61.49                  | 37.24                          |
| 1   | *5805.00       | 87.96 AV                      |                   |                | 1.79 H                   | 300                        | 50.72                  | 37.24                          |
| 2   | 5825.00        | 68.16 PK                      | 83.30             | -15.14         | 1.79 H                   | 300                        | 30.89                  | 37.27                          |
| 3   | 5835.00        | 66.54 PK                      | 73.30             | -6.76          | 1.79 H                   | 300                        | 29.25                  | 37.29                          |
| 4   | #11610.00      | 57.88 PK                      | 74.00             | -16.12         | 1.56 H                   | 35                         | 12.24                  | 45.64                          |
| 4   | #11610.00      | 44.98 AV                      | 54.00             | -9.02          | 1.56 H                   | 35                         | -0.66                  | 45.64                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5805.00       | 102.64 PK                     |                   |                | 1.61 V                   | 360                        | 65.40                  | 37.24                          |
| 1   | *5805.00       | 94.56 AV                      |                   |                | 1.61 V                   | 360                        | 57.32                  | 37.24                          |
| 2   | 5825.00        | 71.19 PK                      | 83.30             | -12.11         | 1.61 V                   | 360                        | 33.92                  | 37.27                          |
| 3   | 5835.00        | 66.80 PK                      | 73.30             | -6.50          | 1.61 V                   | 360                        | 29.51                  | 37.29                          |
| 4   | #11610.00      | 60.68 PK                      | 74.00             | -13.32         | 1.37 V                   | 2                          | 15.04                  | 45.64                          |
| 4   | #11610.00      | 48.98 AV                      | 54.00             | -5.02          | 1.37 V                   | 2                          | 3.34                   | 45.64                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” : Fundamental frequency
6. “#” : The radiated frequency falling in the restricted band.

## 5.2.11 TEST RESULTS (MODE 2)

**Turbo Mode**

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 1                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | #5150.00       | 48.04 PK                      | 74.00             | -25.96         | 1.20 H                   | 36                         | 9.50                   | 38.54                          |
| 2   | *5210.00       | 94.63 PK                      |                   |                | 1.20 H                   | 36                         | 55.95                  | 38.68                          |
| 2   | *5210.00       | 83.33 AV                      |                   |                | 1.20 H                   | 36                         | 44.65                  | 38.68                          |
| 3   | 10420.00       | 57.66 PK                      | 73.30             | -15.64         | 1.00 H                   | 189                        | 12.76                  | 44.90                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | #5150.00       | 50.86 PK                      | 74.00             | -23.14         | 1.59 V                   | 170                        | 12.32                  | 38.54                          |
| 2   | *5210.00       | 97.45 PK                      |                   |                | 1.59 V                   | 170                        | 58.77                  | 38.68                          |
| 2   | *5210.00       | 84.68 AV                      |                   |                | 1.59 V                   | 170                        | 46.00                  | 38.68                          |
| 3   | 10420.00       | 59.22 PK                      | 73.30             | -14.08         | 1.23 V                   | 84                         | 14.32                  | 44.90                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” : Fundamental frequency
6. “#” : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 2                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5250.00       | 93.75 PK                      |                   |                | 1.54 H                   | 132                        | 55.01                  | 38.74                          |
| 1   | *5250.00       | 82.38 AV                      |                   |                | 1.54 H                   | 132                        | 43.64                  | 38.74                          |
| 2   | 10500.00       | 57.30 PK                      | 73.30             | -16.00         | 1.00 H                   | 338                        | 12.23                  | 45.07                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5250.00       | 98.98 PK                      |                   |                | 1.24 V                   | 25                         | 60.24                  | 38.74                          |
| 1   | *5250.00       | 88.22 AV                      |                   |                | 1.24 V                   | 25                         | 49.48                  | 38.74                          |
| 2   | 10500.00       | 56.08 PK                      | 73.30             | -17.22         | 1.05 V                   | 87                         | 11.01                  | 45.07                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 3                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5290.00       | 93.12 PK                      |                   |                | 1.00 H                   | 58                         | 54.33                  | 38.79                          |
| 1   | *5290.00       | 85.80 AV                      |                   |                | 1.00 H                   | 58                         | 47.01                  | 38.79                          |
| 2   | #5350.00       | 44.59 PK                      | 74.00             | -29.41         | 1.00 H                   | 58                         | 5.72                   | 38.87                          |
| 3   | 10580.00       | 58.50 PK                      | 73.30             | -14.80         | 1.07 H                   | 23                         | 13.24                  | 45.25                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5290.00       | 96.32 PK                      |                   |                | 1.53 V                   | 105                        | 57.53                  | 38.79                          |
| 1   | *5290.00       | 86.74 AV                      |                   |                | 1.53 V                   | 105                        | 47.95                  | 38.79                          |
| 2   | #5350.00       | 47.79 PK                      | 74.00             | -26.21         | 1.53 V                   | 105                        | 8.92                   | 38.87                          |
| 3   | 10580.00       | 59.59 PK                      | 73.30             | -13.71         | 1.00 V                   | 0                          | 14.33                  | 45.25                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 4                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 5715.00        | 60.10 PK                      | 73.30             | -13.20         | 1.30 H                   | 166                        | 20.51                  | 39.59                          |
| 2   | 5725.00        | 75.01 PK                      | 83.30             | -8.29          | 1.30 H                   | 166                        | 35.40                  | 39.61                          |
| 3   | *5760.00       | 94.84 PK                      |                   |                | 1.30 H                   | 166                        | 55.14                  | 39.70                          |
| 3   | *5760.00       | 86.66 AV                      |                   |                | 1.30 H                   | 166                        | 46.96                  | 39.70                          |
| 4   | #11520.00      | 62.34 PK                      | 74.00             | -11.66         | 1.30 H                   | 325                        | 16.44                  | 45.90                          |
| 4   | #11520.00      | 47.21 AV                      | 54.00             | -6.79          | 1.30 H                   | 325                        | 1.31                   | 45.90                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 5715.00        | 61.20 PK                      | 73.30             | -12.10         | 1.14 V                   | 333                        | 21.61                  | 39.59                          |
| 2   | 5725.00        | 75.21 PK                      | 83.30             | -8.09          | 1.14 V                   | 333                        | 35.60                  | 39.61                          |
| 3   | *5760.00       | 98.93 PK                      |                   |                | 1.14 V                   | 333                        | 59.23                  | 39.70                          |
| 3   | *5760.00       | 88.34 AV                      |                   |                | 1.14 V                   | 333                        | 48.64                  | 39.70                          |
| 4   | #11520.00      | 66.43 PK                      | 74.00             | -7.57          | 1.35 V                   | 347                        | 20.53                  | 45.90                          |
| 4   | #11520.00      | 51.48 AV                      | 54.00             | -2.52          | 1.35 V                   | 347                        | 5.58                   | 45.90                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” : Fundamental frequency
6. “#” : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 5                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5800.00       | 93.69 PK                      |                   |                | 1.54 H                   | 151                        | 53.90                  | 39.79                          |
| 1   | *5800.00       | 85.43 AV                      |                   |                | 1.54 H                   | 151                        | 45.64                  | 39.79                          |
| 2   | 5825.00        | 73.86 PK                      | 83.30             | -9.44          | 1.54 H                   | 151                        | 34.11                  | 39.75                          |
| 3   | 5835.00        | 59.70 PK                      | 73.30             | -13.60         | 1.54 H                   | 151                        | 19.96                  | 39.74                          |
| 4   | #11600.00      | 60.66 PK                      | 74.00             | -13.34         | 1.40 H                   | 136                        | 14.81                  | 45.85                          |
| 4   | #11600.00      | 48.33 AV                      | 54.00             | -5.67          | 1.40 H                   | 136                        | 2.48                   | 45.85                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5800.00       | 98.59 PK                      |                   |                | 1.15 V                   | 332                        | 58.80                  | 39.79                          |
| 1   | *5800.00       | 86.75 AV                      |                   |                | 1.15 V                   | 332                        | 46.96                  | 39.79                          |
| 2   | 5825.00        | 76.12 PK                      | 83.30             | -7.18          | 1.15 V                   | 332                        | 36.37                  | 39.75                          |
| 3   | 5835.00        | 60.50 PK                      | 73.30             | -12.80         | 1.15 V                   | 332                        | 20.76                  | 39.74                          |
| 4   | #11600.00      | 61.30 PK                      | 74.00             | -12.70         | 1.39 V                   | 172                        | 15.45                  | 45.85                          |
| 4   | #11600.00      | 47.51 AV                      | 54.00             | -6.49          | 1.39 V                   | 172                        | 1.66                   | 45.85                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” : Fundamental frequency
6. “#” : The radiated frequency falling in the restricted band.

## 5.2.12 TEST RESULTS (MODE 3)

**NORMAL MODE**

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 1                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | #5150.00       | 44.45 PK                      | 74.00             | -29.55         | 1.36 H                   | 224                        | 5.91                   | 38.54                          |
| 2   | *5180.00       | 94.94 PK                      |                   |                | 1.36 H                   | 224                        | 56.32                  | 38.62                          |
| 2   | *5180.00       | 85.52 AV                      |                   |                | 1.36 H                   | 224                        | 46.90                  | 38.62                          |
| 3   | 10359.00       | 59.67 PK                      | 71.30             | -11.63         | 1.09 H                   | 82                         | 14.80                  | 44.87                          |
| 4   | #15540.00      | 62.02 PK                      | 74.00             | -11.98         | 1.16 H                   | 247                        | 15.03                  | 46.98                          |
| 4   | #15540.00      | 46.02 AV                      | 54.00             | -7.98          | 1.16 H                   | 247                        | -0.97                  | 46.98                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | #5150.00       | 46.88 PK                      | 74.00             | -27.12         | 1.35 V                   | 133                        | 8.34                   | 38.54                          |
| 2   | *5180.00       | 97.37 PK                      |                   |                | 1.35 V                   | 133                        | 58.75                  | 38.62                          |
| 2   | *5180.00       | 86.17 AV                      |                   |                | 1.35 V                   | 133                        | 47.55                  | 38.62                          |
| 3   | 10357.00       | 59.28 PK                      | 71.30             | -12.02         | 1.17 V                   | 360                        | 14.41                  | 44.87                          |
| 4   | #15540.00      | 66.05 PK                      | 74.00             | -7.95          | 1.16 V                   | 198                        | 19.06                  | 46.98                          |
| 4   | #15540.00      | 50.16 AV                      | 54.00             | -3.84          | 1.16 V                   | 198                        | 3.17                   | 46.98                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” : Fundamental frequency
6. “#” : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 4                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5240.00       | 95.61 PK                      |                   |                | 1.16 H                   | 271                        | 56.89                  | 38.72                          |
| 1   | *5240.00       | 84.07 AV                      |                   |                | 1.16 H                   | 271                        | 45.35                  | 38.72                          |
| 2   | 10480.00       | 61.05 PK                      | 71.30             | -10.25         | 1.26 H                   | 58                         | 16.02                  | 45.03                          |
| 3   | #15720.00      | 61.89 PK                      | 74.00             | -12.11         | 1.09 H                   | 45                         | 15.38                  | 46.51                          |
| 3   | #15720.00      | 46.57 AV                      | 54.00             | -7.43          | 1.09 H                   | 45                         | 0.06                   | 46.51                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5240.00       | 99.32 PK                      |                   |                | 1.21 V                   | 0                          | 60.60                  | 38.72                          |
| 1   | *5240.00       | 89.72 AV                      |                   |                | 1.21 V                   | 0                          | 51.00                  | 38.72                          |
| 2   | 10480.00       | 59.29 PK                      | 71.30             | -12.01         | 1.21 V                   | 0                          | 14.26                  | 45.03                          |
| 3   | #15720.00      | 64.95 PK                      | 74.00             | -9.05          | 1.15 V                   | 143                        | 18.44                  | 46.51                          |
| 3   | #15720.00      | 49.21 AV                      | 54.00             | -4.79          | 1.15 V                   | 143                        | 2.70                   | 46.51                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.



|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 5                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5260.00       | 94.52 PK                      |                   |                | 1.60 H                   | 19                         | 55.77                  | 38.75                          |
| 1   | *5260.00       | 82.87 AV                      |                   |                | 1.60 H                   | 19                         | 44.12                  | 38.75                          |
| 2   | 10520.00       | 55.96 PK                      | 71.30             | -15.34         | 1.33 H                   | 199                        | 10.85                  | 45.12                          |
| 3   | #15780.00      | 66.13 PK                      | 74.00             | -7.87          | 1.48 H                   | 290                        | 19.86                  | 46.27                          |
| 3   | #15780.00      | 50.77 AV                      | 54.00             | -3.23          | 1.48 H                   | 290                        | 4.50                   | 46.27                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5260.00       | 101.63 PK                     |                   |                | 1.61 V                   | 226                        | 62.88                  | 38.75                          |
| 1   | *5260.00       | 90.73 AV                      |                   |                | 1.61 V                   | 226                        | 51.98                  | 38.75                          |
| 2   | 10520.00       | 57.46 PK                      | 71.30             | -13.84         | 1.23 V                   | 21                         | 12.35                  | 45.12                          |
| 3   | #15780.00      | 65.98 PK                      | 74.00             | -8.02          | 1.15 V                   | 247                        | 19.72                  | 46.25                          |
| 3   | #15780.00      | 51.54 AV                      | 54.00             | -2.46          | 1.15 V                   | 247                        | 5.28                   | 46.25                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 8                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5320.00       | 97.37 PK                      |                   |                | 1.10 H                   | 232                        | 58.54                  | 38.83                          |
| 1   | *5320.00       | 84.25 AV                      |                   |                | 1.10 H                   | 232                        | 45.42                  | 38.83                          |
| 2   | #5350.00       | 45.93 PK                      | 74.00             | -28.07         | 1.10 H                   | 232                        | 7.06                   | 38.87                          |
| 3   | #10640.00      | 58.80 PK                      | 74.00             | -15.20         | 1.06 H                   | 117                        | 13.50                  | 45.31                          |
| 3   | #10640.00      | 44.36 AV                      | 54.00             | -9.64          | 1.06 H                   | 117                        | -0.94                  | 45.31                          |
| 4   | #15960.00      | 61.35 PK                      | 74.00             | -12.65         | 1.09 H                   | 333                        | 14.41                  | 46.93                          |
| 4   | #15960.00      | 46.22 AV                      | 54.00             | -7.78          | 1.09 H                   | 333                        | -0.72                  | 46.93                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5320.00       | 99.12 PK                      |                   |                | 1.41 V                   | 226                        | 60.29                  | 38.83                          |
| 1   | *5320.00       | 89.43 AV                      |                   |                | 1.41 V                   | 226                        | 50.60                  | 38.83                          |
| 2   | #5350.00       | 47.68 PK                      | 74.00             | -26.32         | 1.20 V                   | 236                        | 8.81                   | 38.87                          |
| 3   | #10640.00      | 60.91 PK                      | 74.00             | -13.09         | 1.24 V                   | 360                        | 15.61                  | 45.31                          |
| 3   | #10640.00      | 45.93 AV                      | 54.00             | -8.07          | 1.24 V                   | 360                        | 0.63                   | 45.31                          |
| 4   | #15960.00      | 65.54 PK                      | 74.00             | -8.46          | 1.20 V                   | 236                        | 18.60                  | 46.93                          |
| 4   | #15960.00      | 50.02 AV                      | 54.00             | -3.98          | 1.20 V                   | 236                        | 3.08                   | 46.93                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 9                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 5715.00        | 59.70 PK                      | 71.30             | -11.60         | 1.03 H                   | 145                        | 20.11                  | 39.59                          |
| 2   | 5725.00        | 72.48 PK                      | 81.30             | -8.82          | 1.03 H                   | 145                        | 32.87                  | 39.61                          |
| 3   | *5745.00       | 89.48 PK                      |                   |                | 1.03 H                   | 145                        | 49.82                  | 39.66                          |
| 3   | *5745.00       | 77.68 AV                      |                   |                | 1.03 H                   | 145                        | 38.02                  | 39.66                          |
| 4   | #11490.00      | 50.16 PK                      | 74.00             | -23.84         | 1.32 H                   | 47                         | 4.23                   | 45.93                          |
| 4   | #11490.00      | 34.40 AV                      | 54.00             | -19.60         | 1.32 H                   | 47                         | -11.53                 | 45.93                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 5715.00        | 60.30 PK                      | 71.30             | -11.00         | 1.25 V                   | 36                         | 20.71                  | 39.59                          |
| 2   | 5725.00        | 73.27 PK                      | 81.30             | -8.03          | 1.25 V                   | 36                         | 33.66                  | 39.61                          |
| 3   | *5745.00       | 94.04 PK                      |                   |                | 1.03 V                   | 162                        | 54.38                  | 39.66                          |
| 3   | *5745.00       | 83.56 AV                      |                   |                | 1.03 V                   | 162                        | 43.90                  | 39.66                          |
| 4   | #11490.00      | 66.04 PK                      | 74.00             | -7.96          | 1.03 V                   | 162                        | 20.12                  | 45.93                          |
| 4   | #11490.00      | 51.74 AV                      | 54.00             | -2.26          | 1.03 V                   | 162                        | 5.82                   | 45.93                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 12                       |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5805.00       | 92.51 PK                      |                   |                | 1.67 H                   | 244                        | 52.73                  | 39.78                          |
| 1   | *5805.00       | 82.63 AV                      |                   |                | 1.67 H                   | 244                        | 42.85                  | 39.78                          |
| 2   | 5825.00        | 72.06 PK                      | 81.30             | -9.24          | 1.67 H                   | 244                        | 32.31                  | 39.75                          |
| 3   | 5835.00        | 58.60 PK                      | 71.30             | -12.70         | 1.03 H                   | 145                        | 18.86                  | 39.74                          |
| 4   | #11610.00      | 60.36 PK                      | 74.00             | -13.64         | 1.03 H                   | 145                        | 14.48                  | 45.89                          |
| 4   | #11610.00      | 44.26 AV                      | 54.00             | -9.74          | 1.03 H                   | 145                        | -1.62                  | 45.89                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5805.00       | 96.90 PK                      |                   |                | 1.40 V                   | 224                        | 57.12                  | 39.78                          |
| 1   | *5805.00       | 85.63 AV                      |                   |                | 1.40 V                   | 224                        | 45.85                  | 39.78                          |
| 2   | 5825.00        | 73.61 PK                      | 81.30             | -7.69          | 1.40 V                   | 224                        | 33.86                  | 39.75                          |
| 3   | 5835.00        | 61.30 PK                      | 71.30             | -10.00         | 1.20 V                   | 36                         | 21.56                  | 39.74                          |
| 4   | #11610.00      | 65.46 PK                      | 74.00             | -8.54          | 1.11 V                   | 161                        | 19.58                  | 45.89                          |
| 4   | #11610.00      | 51.76 AV                      | 54.00             | -2.24          | 1.11 V                   | 161                        | 5.88                   | 45.89                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” : Fundamental frequency
6. “#” : The radiated frequency falling in the restricted band.

## 5.2.13 TEST RESULTS (MODE 4)

**NORMAL MODE**

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 1                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | #5150.00       | 43.32 PK                      | 74.00             | -30.68         | 1.00 H                   | 54                         | 4.78                   | 38.54                          |
| 2   | *5180.00       | 93.81 PK                      |                   |                | 1.00 H                   | 54                         | 55.19                  | 38.62                          |
| 2   | *5180.00       | 82.36 AV                      |                   |                | 1.00 H                   | 54                         | 43.74                  | 38.62                          |
| 3   | 10360.00       | 59.23 PK                      | 69.80             | -10.57         | 1.30 H                   | 350                        | 14.36                  | 44.87                          |
| 4   | #15540.00      | 62.73 PK                      | 74.00             | -11.27         | 1.25 H                   | 56                         | 15.74                  | 46.98                          |
| 4   | #15540.00      | 47.72 AV                      | 54.00             | -6.28          | 1.25 H                   | 56                         | 0.73                   | 46.98                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 5150.00        | 47.36 PK                      | 74.00             | -26.64         | 1.00 V                   | 162                        | 8.82                   | 38.54                          |
| 2   | *5180.00       | 97.85 PK                      |                   |                | 1.00 V                   | 162                        | 59.23                  | 38.62                          |
| 2   | *5180.00       | 86.45 AV                      |                   |                | 1.00 V                   | 162                        | 47.83                  | 38.62                          |
| 3   | 10360.00       | 60.01 PK                      | 69.80             | -9.79          | 1.00 V                   | 45                         | 15.14                  | 44.87                          |
| 4   | #15540.00      | 66.36 PK                      | 74.00             | -7.64          | 1.19 V                   | 37                         | 19.37                  | 46.98                          |
| 4   | #15540.00      | 50.92 AV                      | 54.00             | -3.08          | 1.19 V                   | 37                         | 3.93                   | 46.98                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” : Fundamental frequency
6. “#” : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 4                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5320.00       | 95.09 PK                      |                   |                | 1.05 H                   | 51                         | 56.26                  | 38.83                          |
| 1   | *5320.00       | 84.90 AV                      |                   |                | 1.05 H                   | 51                         | 46.07                  | 38.83                          |
| 2   | 10480.00       | 59.22 PK                      | 69.80             | -10.58         | 1.20 H                   | 349                        | 14.19                  | 45.03                          |
| 3   | #15728.00      | 65.27 PK                      | 74.00             | -8.73          | 1.36 H                   | 37                         | 18.79                  | 46.48                          |
| 3   | #15728.00      | 48.46 AV                      | 54.00             | -5.54          | 1.36 H                   | 37                         | 1.98                   | 46.48                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5240.00       | 96.63 PK                      |                   |                | 1.31 V                   | 96                         | 57.91                  | 38.72                          |
| 1   | *5240.00       | 84.95 AV                      |                   |                | 1.31 V                   | 96                         | 46.23                  | 38.72                          |
| 2   | 10478.00       | 61.80 PK                      | 69.80             | -8.00          | 1.18 V                   | 24                         | 16.78                  | 45.02                          |
| 3   | #15728.00      | 64.83 PK                      | 74.00             | -9.17          | 1.20 V                   | 156                        | 18.31                  | 46.52                          |
| 3   | #15728.00      | 49.98 AV                      | 54.00             | -4.02          | 1.20 V                   | 156                        | 3.46                   | 46.52                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.



|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 5                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5260.00       | 94.95 PK                      |                   |                | 1.54 H                   | 265                        | 56.20                  | 38.75                          |
| 1   | *5260.00       | 83.81 AV                      |                   |                | 1.54 H                   | 265                        | 45.06                  | 38.75                          |
| 2   | 10520.00       | 58.98 PK                      | 69.80             | -10.82         | 1.32 H                   | 14                         | 13.87                  | 45.12                          |
| 3   | #15780.00      | 64.76 PK                      | 74.00             | -9.24          | 1.12 H                   | 57                         | 18.49                  | 46.27                          |
| 3   | #15780.00      | 48.94 AV                      | 54.00             | -5.06          | 1.12 H                   | 57                         | 2.67                   | 46.27                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5260.00       | 96.81 PK                      |                   |                | 1.12 V                   | 138                        | 58.06                  | 38.75                          |
| 1   | *5260.00       | 86.40 AV                      |                   |                | 1.12 V                   | 138                        | 47.65                  | 38.75                          |
| 2   | 10520.00       | 60.25 PK                      | 69.80             | -9.55          | 1.25 V                   | 28                         | 15.14                  | 45.12                          |
| 3   | #15780.00      | 67.18 PK                      | 74.00             | -6.82          | 1.10 V                   | 158                        | 20.91                  | 46.27                          |
| 3   | #15780.00      | 50.24 AV                      | 54.00             | -3.76          | 1.10 V                   | 158                        | 3.97                   | 46.27                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 8                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5320.00       | 94.53 PK                      |                   |                | 1.25 H                   | 57                         | 55.70                  | 38.83                          |
| 1   | *5320.00       | 82.33 AV                      |                   |                | 1.25 H                   | 57                         | 43.50                  | 38.83                          |
| 2   | #5350.00       | 43.09 PK                      | 74.00             | -30.91         | 1.25 H                   | 57                         | 4.22                   | 38.87                          |
| 3   | #10640.00      | 60.68 PK                      | 74.00             | -13.32         | 1.34 H                   | 356                        | 15.38                  | 45.31                          |
| 3   | #10640.00      | 47.27 AV                      | 54.00             | -6.73          | 1.34 H                   | 356                        | 1.97                   | 45.31                          |
| 4   | #15960.00      | 63.56 PK                      | 74.00             | -10.44         | 1.39 H                   | 91                         | 16.62                  | 46.93                          |
| 4   | #15960.00      | 48.12 AV                      | 54.00             | -5.88          | 1.39 H                   | 91                         | 1.18                   | 46.93                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5320.00       | 96.31 PK                      |                   |                | 1.57 V                   | 255                        | 57.48                  | 38.83                          |
| 1   | *5320.00       | 85.64 AV                      |                   |                | 1.57 V                   | 255                        | 46.81                  | 38.83                          |
| 2   | #5350.00       | 44.87 PK                      | 74.00             | -29.13         | 1.57 V                   | 255                        | 6.00                   | 38.87                          |
| 3   | #10640.00      | 62.20 PK                      | 74.00             | -11.80         | 1.58 V                   | 54                         | 16.89                  | 45.31                          |
| 3   | #10640.00      | 47.35 AV                      | 54.00             | -6.65          | 1.58 V                   | 54                         | 2.04                   | 45.31                          |
| 4   | #15960.00      | 67.16 PK                      | 74.00             | -6.84          | 1.10 V                   | 49                         | 20.22                  | 46.93                          |
| 4   | #15960.00      | 50.86 AV                      | 54.00             | -3.14          | 1.10 V                   | 49                         | 3.92                   | 46.93                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.



|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 9                        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 5715.00        | 57.60 PK                      | 69.80             | -12.20         | 1.20 H                   | 25                         | 18.01                  | 39.59                          |
| 2   | 5725.00        | 73.42 PK                      | 79.80             | -6.38          | 1.25 H                   | 25                         | 33.81                  | 39.61                          |
| 3   | *5745.00       | 93.86 PK                      |                   |                | 1.25 H                   | 25                         | 54.20                  | 39.66                          |
| 3   | *5745.00       | 81.34 AV                      |                   |                | 1.25 H                   | 25                         | 41.68                  | 39.66                          |
| 4   | #11490.00      | 61.28 PK                      | 74.00             | -12.72         | 1.05 H                   | 57                         | 15.36                  | 45.93                          |
| 4   | #11490.00      | 48.18 AV                      | 54.00             | -5.82          | 1.05 H                   | 57                         | 2.26                   | 45.93                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 5715.00        | 58.30 PK                      | 69.80             | -11.50         | 1.35 V                   | 158                        | 18.71                  | 39.59                          |
| 2   | 5725.00        | 73.57 PK                      | 79.80             | -6.23          | 1.35 V                   | 158                        | 33.96                  | 39.61                          |
| 3   | *5745.00       | 94.22 PK                      |                   |                | 1.35 V                   | 158                        | 54.56                  | 39.66                          |
| 3   | *5745.00       | 82.33 AV                      |                   |                | 1.35 V                   | 158                        | 42.67                  | 39.66                          |
| 4   | #11490.00      | 66.36 PK                      | 74.00             | -7.64          | 1.46 V                   | 176                        | 20.44                  | 45.93                          |
| 4   | #11490.00      | 52.32 AV                      | 54.00             | -1.68          | 1.46 V                   | 176                        | 6.40                   | 45.93                          |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.

|                                 |                                           |                          |                          |
|---------------------------------|-------------------------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>             | GL2554MP-1A              |
| <b>FREQUENCY RANGE</b>          | Above 1000 MHz                            | <b>CHANNEL</b>           | 12                       |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25deg. C, 60%RH,<br>991hPa                | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60Hz                              | <b>TESTED BY</b>         | Martin Lee               |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5805.00       | 92.22 PK                      |                   |                | 1.25 H                   | 47                         | 52.44                  | 39.78                          |
| 1   | *5805.00       | 79.75 AV                      |                   |                | 1.25 H                   | 47                         | 39.97                  | 39.78                          |
| 2   | 5825.00        | 70.43 PK                      | 79.80             | -9.37          | 1.25 H                   | 47                         | 30.68                  | 39.75                          |
| 3   | 5835.00        | 58.95 PK                      | 69.80             | -10.85         | 1.25 H                   | 47                         | 19.21                  | 39.74                          |
| 4   | #11610.00      | 63.03 PK                      | 74.00             | -10.97         | 1.44 H                   | 136                        | 17.15                  | 45.89                          |
| 4   | #11610.00      | 49.19 AV                      | 54.00             | -4.81          | 1.44 H                   | 136                        | 3.31                   | 45.89                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *5805.00       | 93.50 PK                      |                   |                | 1.05 V                   | 175                        | 53.72                  | 39.78                          |
| 1   | *5805.00       | 81.81 AV                      |                   |                | 1.05 V                   | 175                        | 42.03                  | 39.78                          |
| 2   | 5825.00        | 71.30 PK                      | 79.80             | -8.50          | 1.05 V                   | 175                        | 31.55                  | 39.75                          |
| 3   | 5835.00        | 60.50 PK                      | 69.80             | -9.30          | 1.05 V                   | 175                        | 20.76                  | 39.74                          |
| 4   | #11610.00      | 66.99 PK                      | 74.00             | -7.01          | 1.51 V                   | 173                        | 21.11                  | 45.89                          |
| 4   | #11610.00      | 52.03 AV                      | 54.00             | -1.97          | 1.51 V                   | 173                        | 6.15                   | 45.89                          |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.

### 5.3 PEAK TRANSMIT POWER MEASUREMENT

#### 5.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

| Frequency Band   | Limit                                         |
|------------------|-----------------------------------------------|
| 5.15 – 5.25GHz   | The lesser of 50mW (17dBm) or 4dBm + 10logB   |
| 5.25 – 5.35GHz   | The lesser of 250mW (24dBm) or 11dBm + 10logB |
| 5.725 – 5.825GHz | The lesser of 1W (30dBm) or 17dBm + 10logB    |

**NOTE:** Where B is the 26dB emission bandwidth in MHz.

#### 5.3.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYZER          | FSEK30    | 100049     | August 12, 2004  |

**NOTE:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 5.3.3 TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set span to encompass the entire emission bandwidth of the signal.
3. Set RBW to 1MHz, VBW to 300kHz.
4. Using the spectrum analyzer's channel power measurement function to measure the output power.

### 5.3.4 DEVIATION FROM TEST STANDARD

No deviation

### 5.3.5 TEST SETUP



### 5.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

## 5.3.7 TEST RESULTS

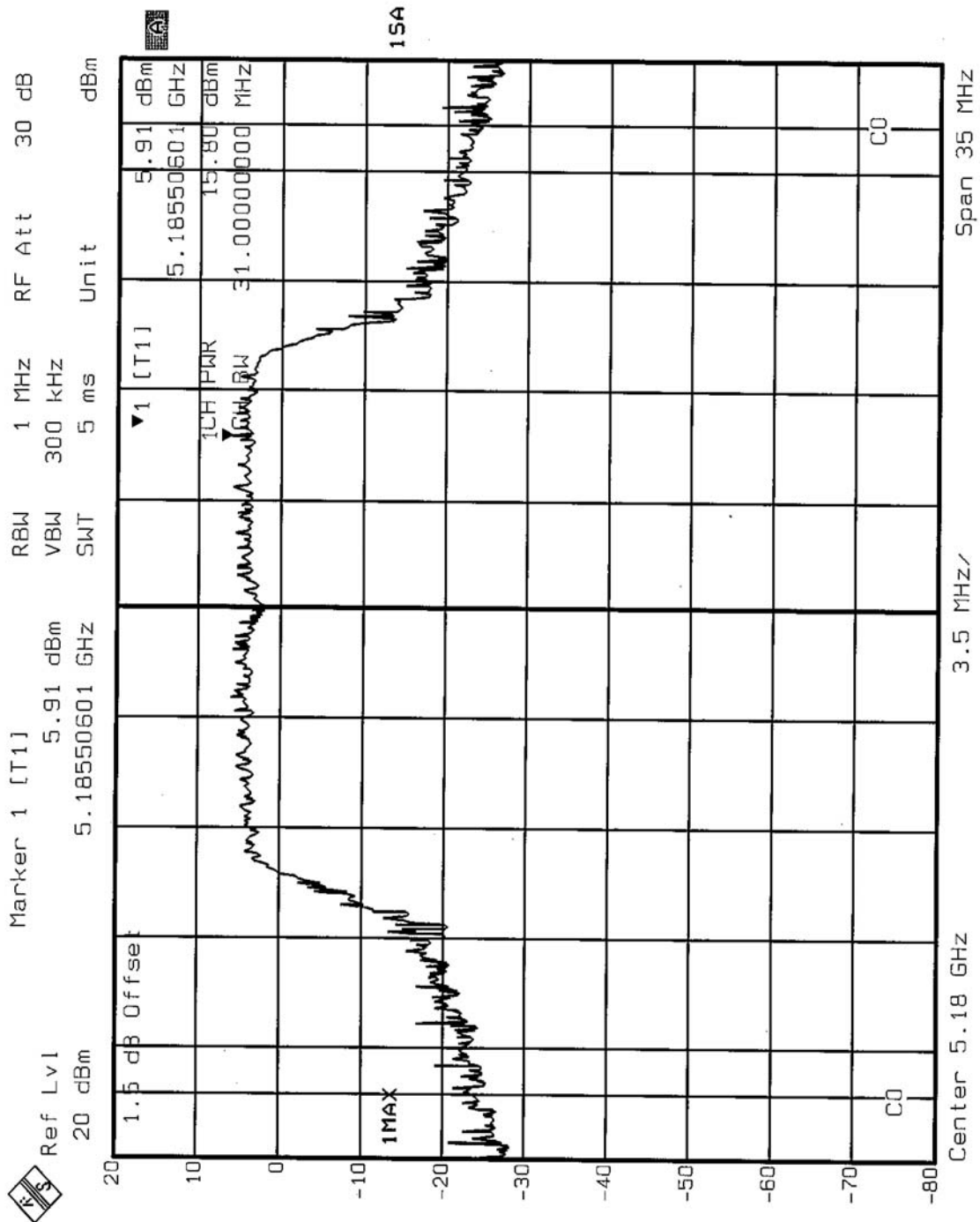
**NORMAL(MODE 1、2)**

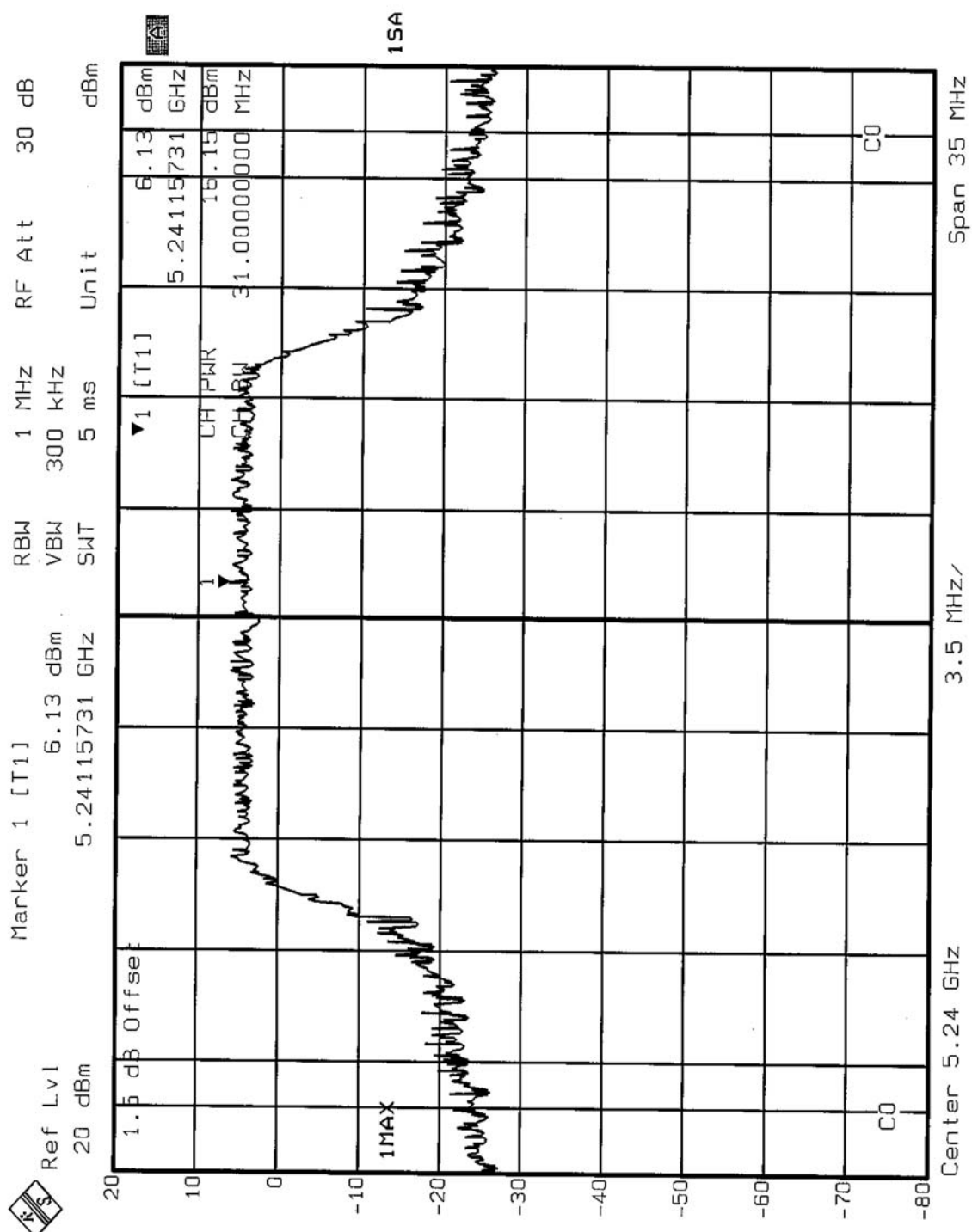
|                                     |                                           |                                 |               |
|-------------------------------------|-------------------------------------------|---------------------------------|---------------|
| <b>EUT</b>                          | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>                    | GL2554MP-1A   |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 24deg. C, 63%RH,<br>991hPa                | <b>INPUT POWER<br/>(SYSTEM)</b> | 120Vac, 60 Hz |
| <b>TESTED BY</b>                    | Ansen Lei                                 |                                 |               |

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | PEAK POWER<br>OUTPUT<br>(dBm) | PEAK POWER<br>LIMIT<br>(dBm) | 26dBc<br>Occupied<br>Bandwidth<br>(MHz) | PASS/FAIL |
|---------|-------------------------------|-------------------------------|------------------------------|-----------------------------------------|-----------|
| 1       | 5180                          | 15.80                         | 17.00                        | 28.38                                   | PASS      |
| 4       | 5240                          | 16.15                         | 17.00                        | 30.54                                   | PASS      |
| 5       | 5260                          | 16.52                         | 24.00                        | 27.25                                   | PASS      |
| 8       | 5320                          | 15.25                         | 24.00                        | 27.90                                   | PASS      |
| 9       | 5745                          | 15.01                         | 30.00                        | 25.73                                   | PASS      |
| 12      | 5805                          | 14.35                         | 30.00                        | 26.53                                   | PASS      |

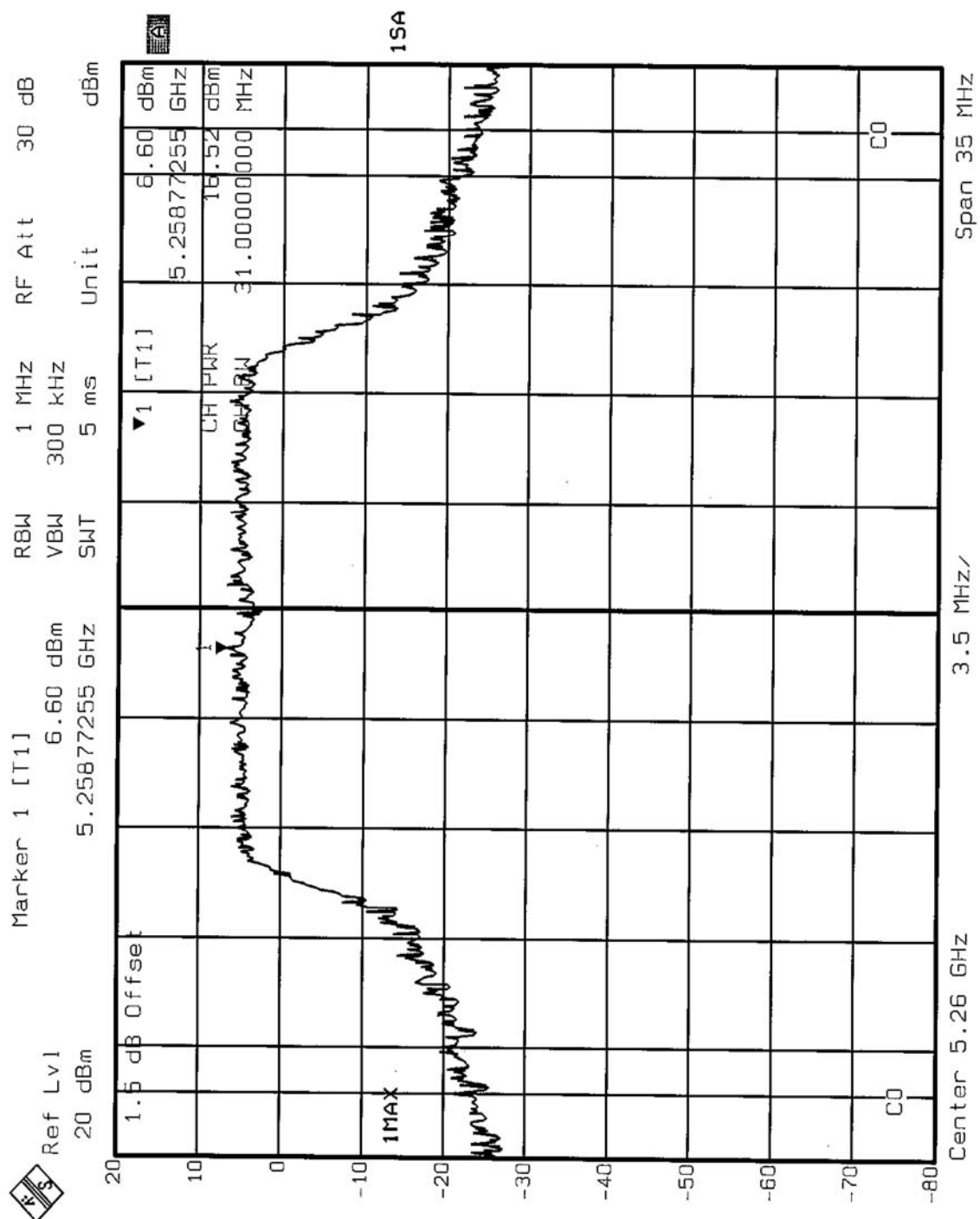
**NOTE:** For the plot of 26dBc Occupied Bandwidth and Peak Power Output value, please refer to the following pages.

## CH1



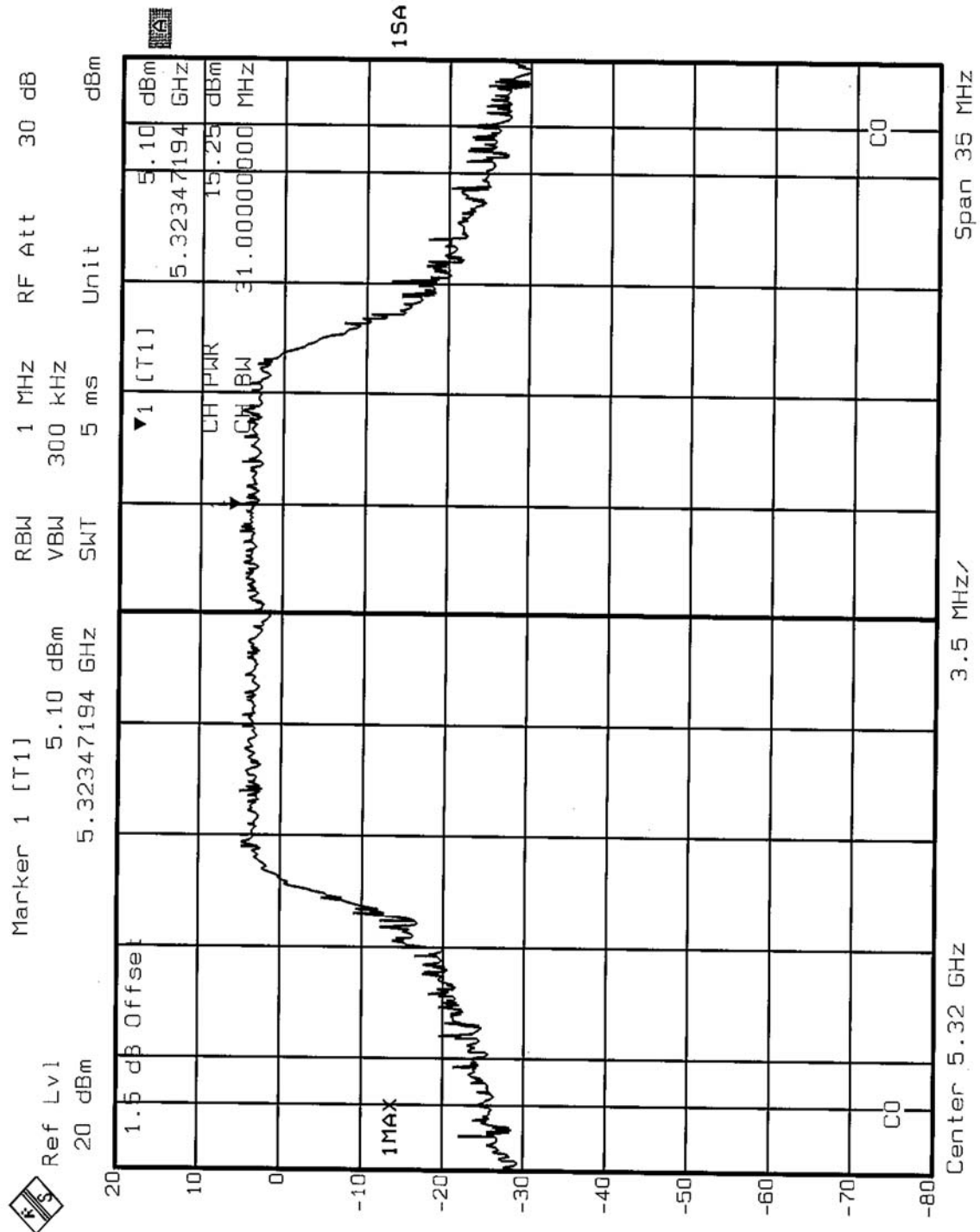


## CH5

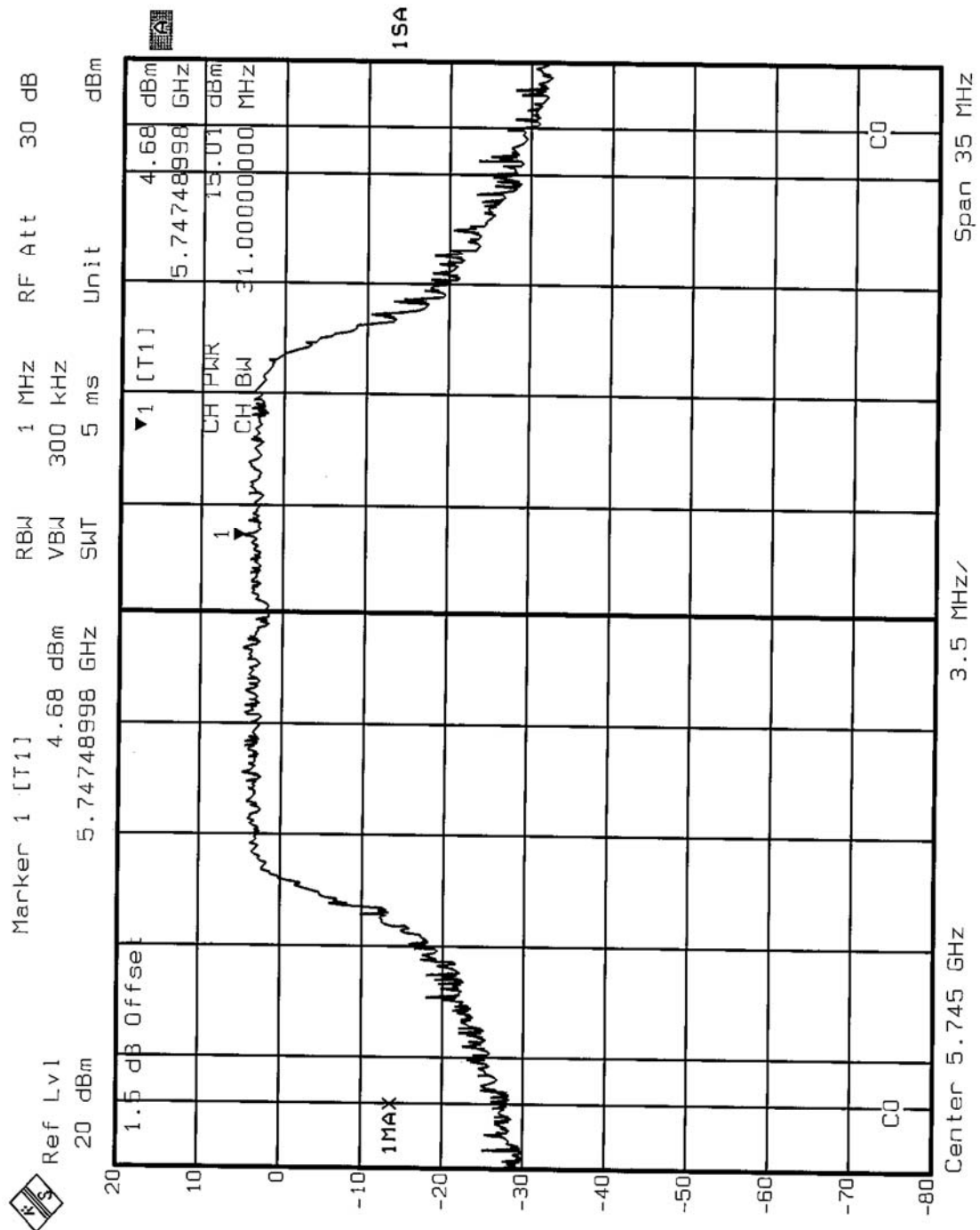




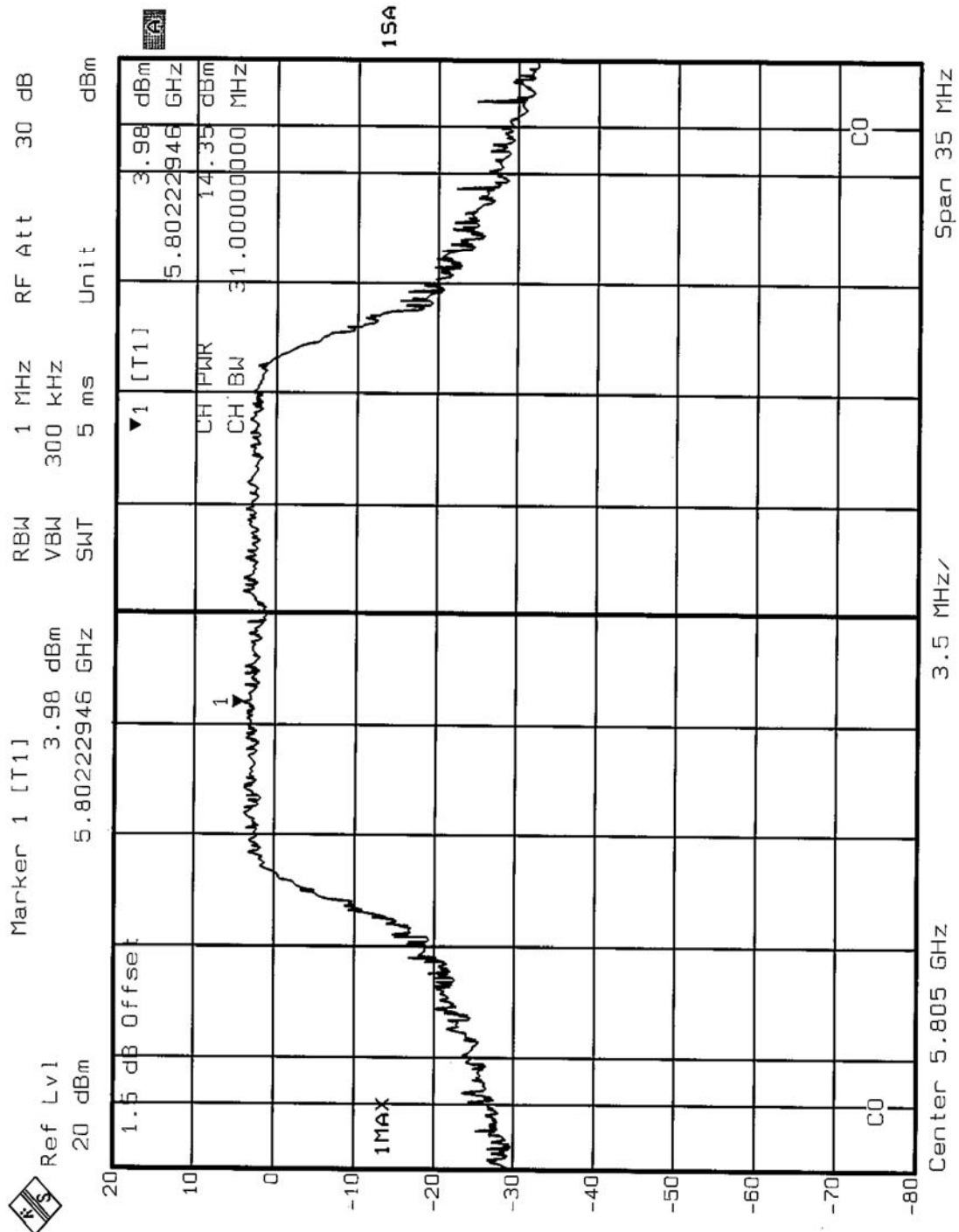
## CH8



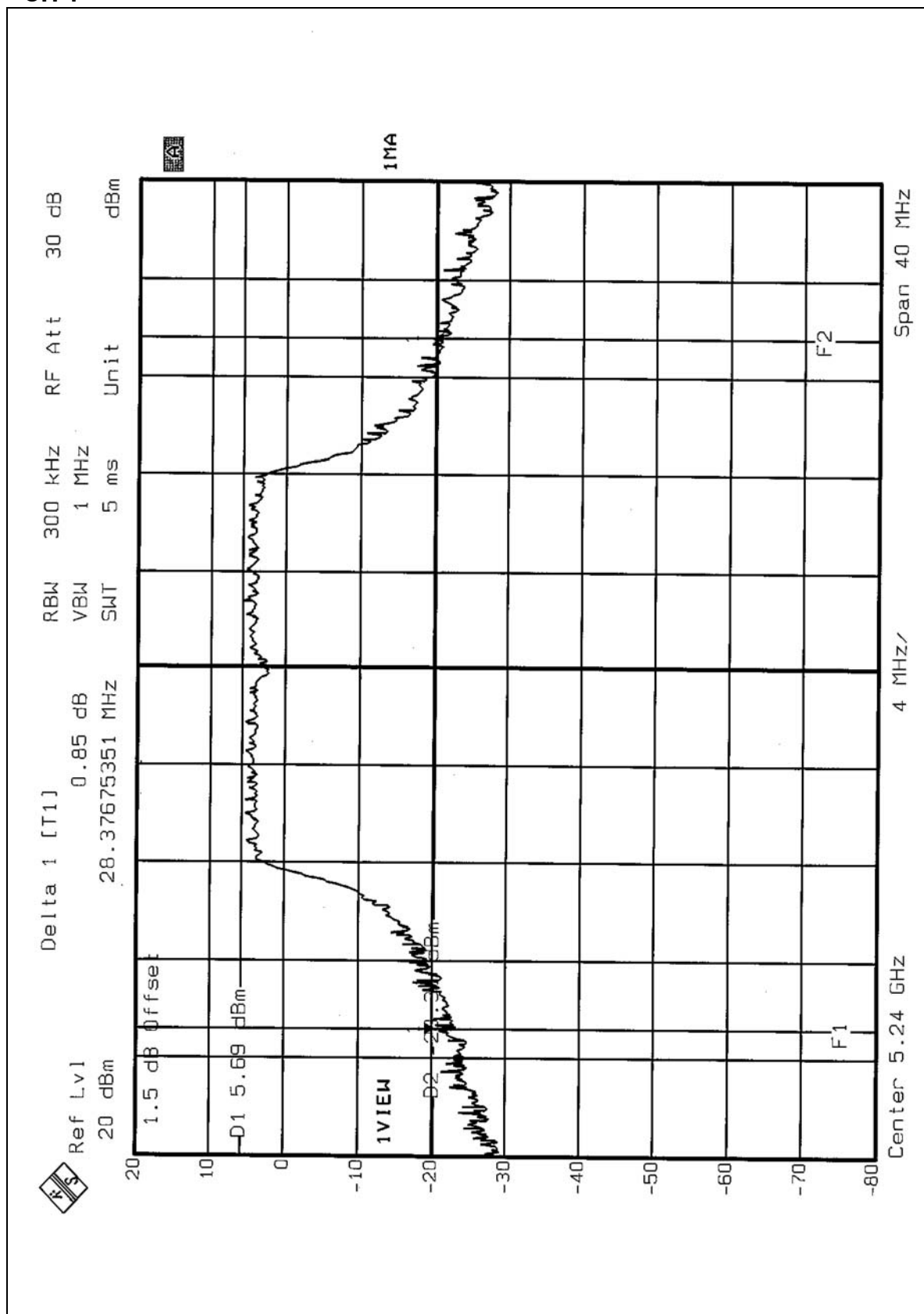
## CH9



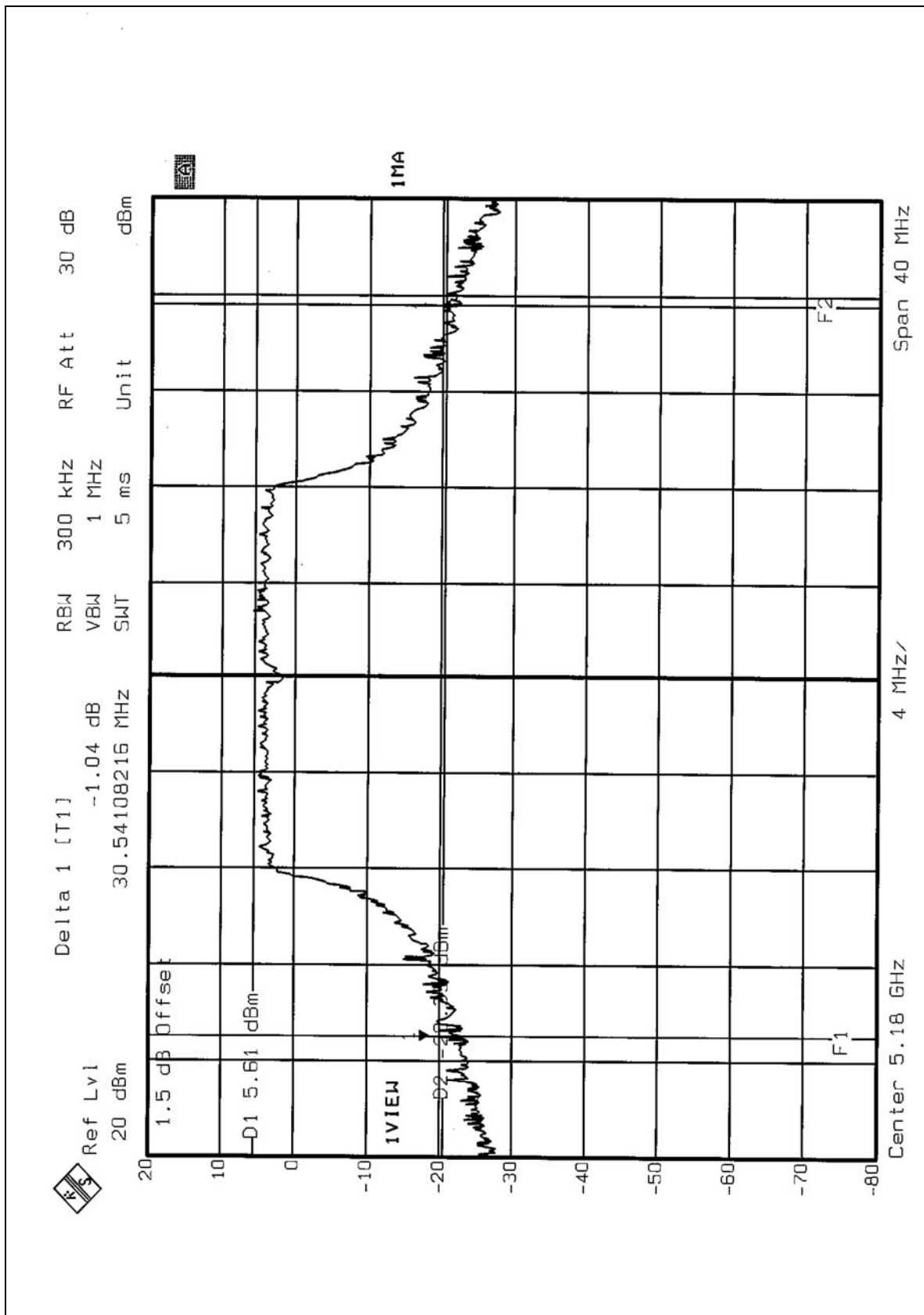
## CH12



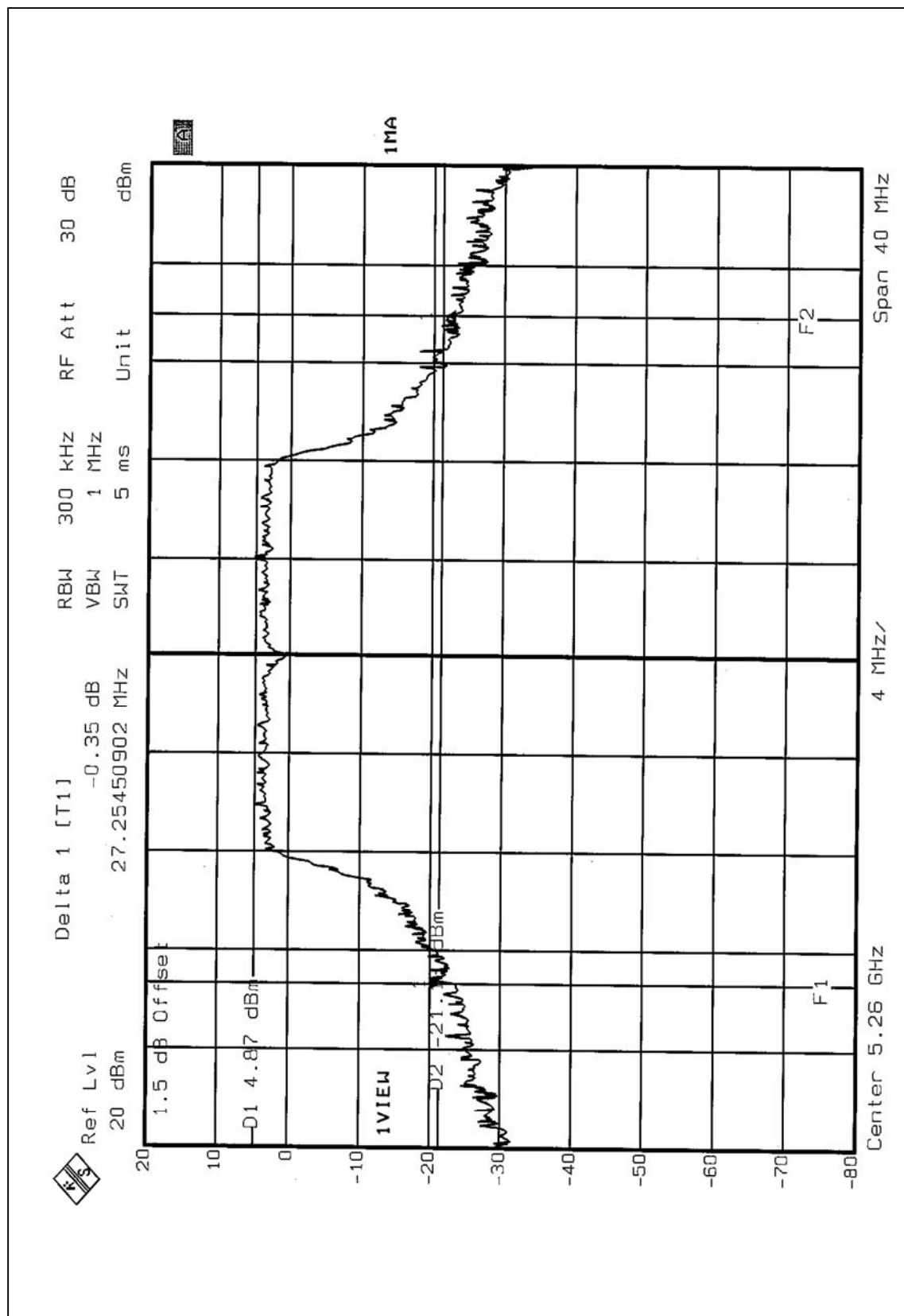
## CH 1



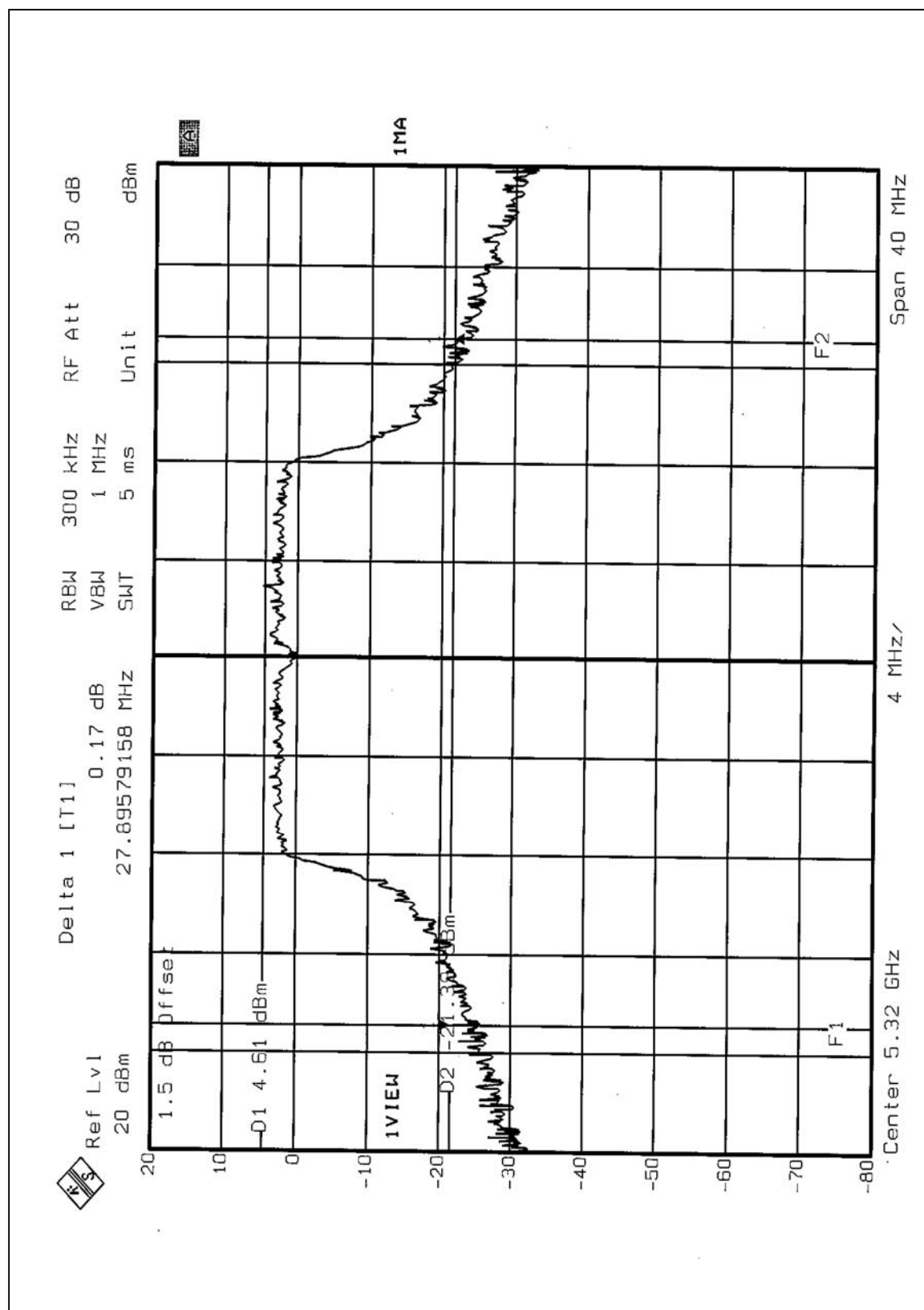
## CH4



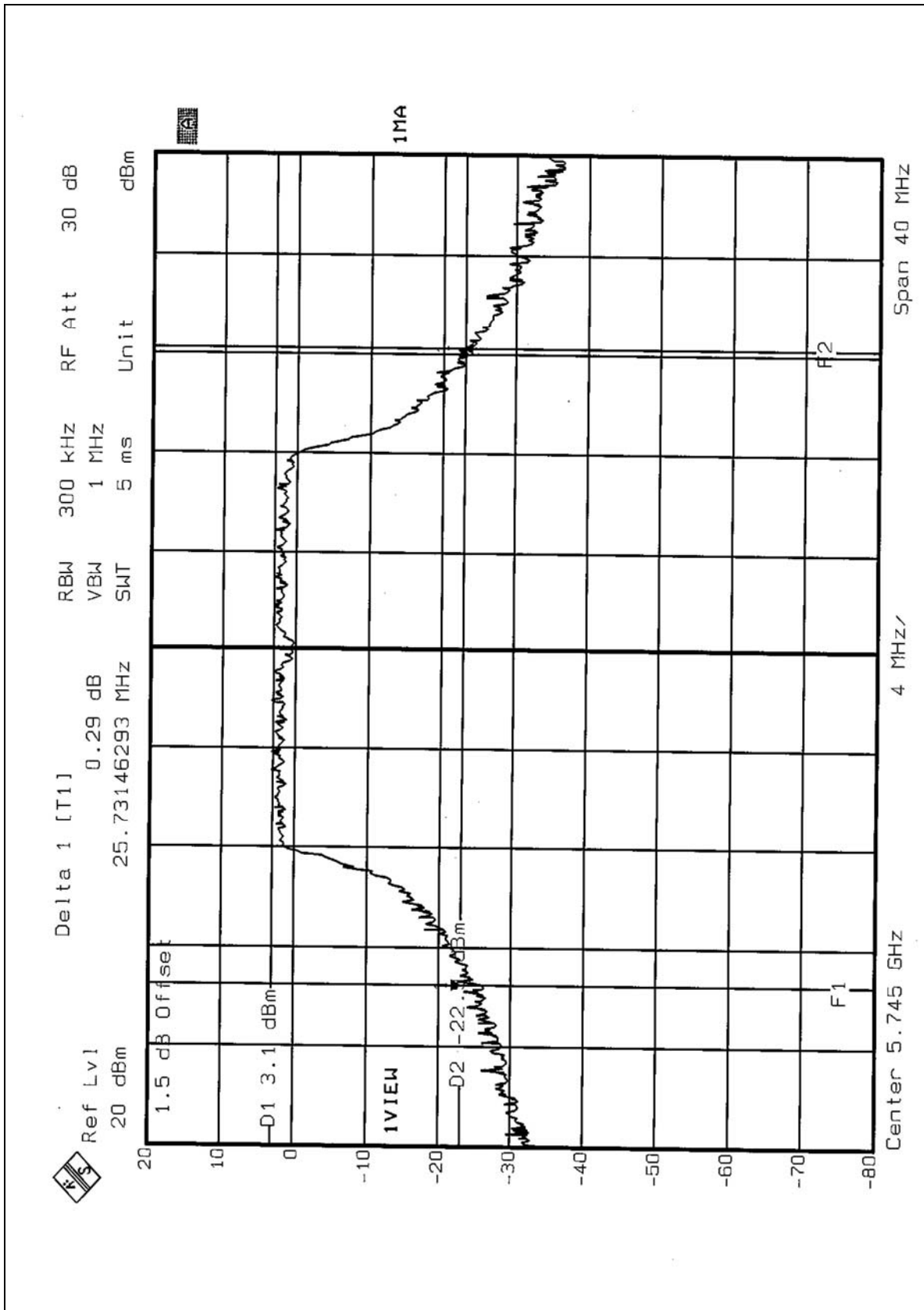
## CH5



## CH8



## CH9









### TURBO MODE (MODE 2)

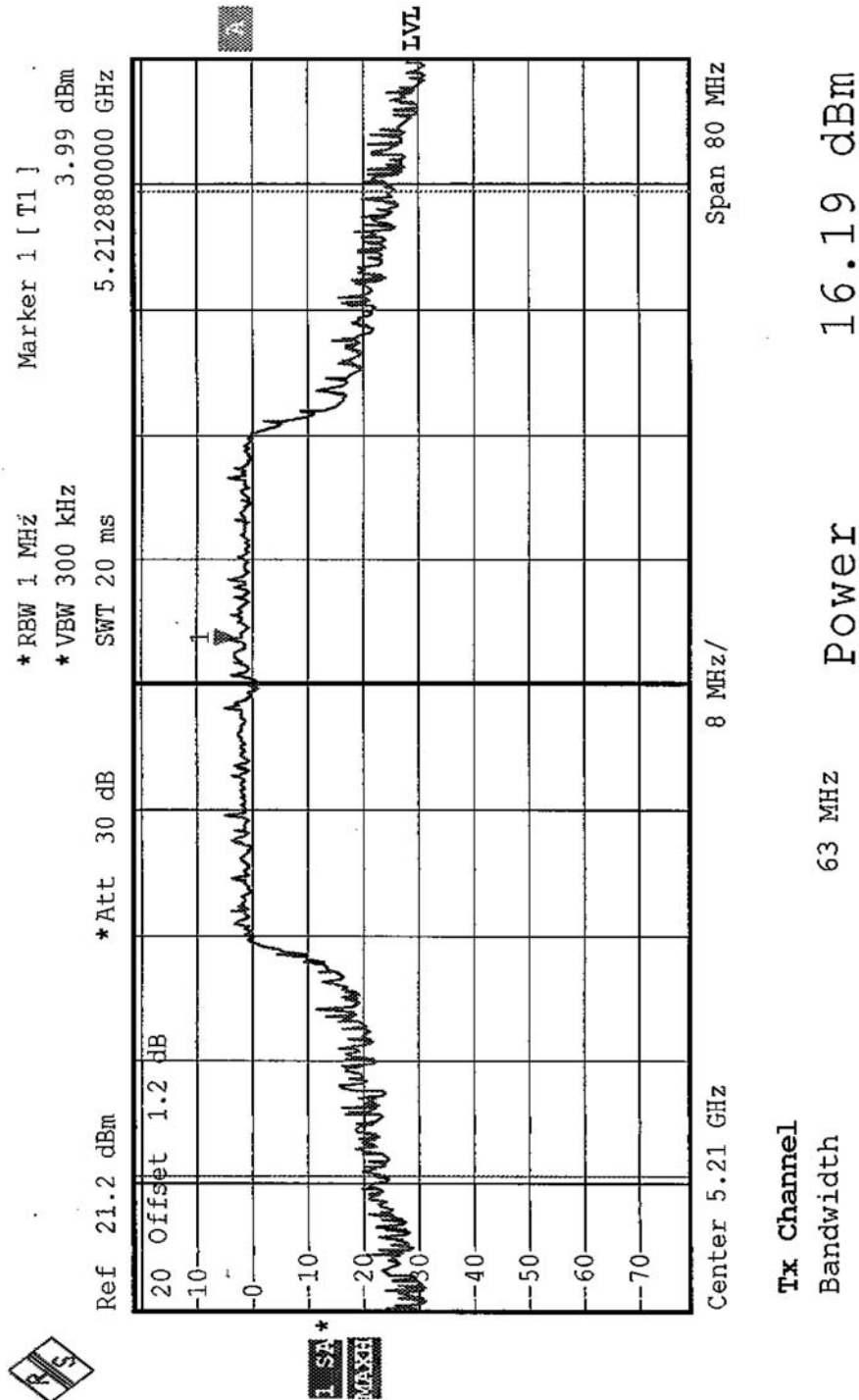
|                                     |                                           |                                 |               |
|-------------------------------------|-------------------------------------------|---------------------------------|---------------|
| <b>EUT</b>                          | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>                    | GL2554MP-1A   |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 24deg. C, 63%RH,<br>991hPa                | <b>INPUT POWER<br/>(SYSTEM)</b> | 120Vac, 60 Hz |
| <b>TESTED BY</b>                    | Ansen Lei                                 |                                 |               |

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | PEAK POWER<br>OUTPUT<br>(dBm) | PEAK POWER<br>LIMIT<br>(dBm) | 26dBc<br>Occupied<br>Bandwidth<br>(MHz) | PASS/FAIL |
|---------|-------------------------------|-------------------------------|------------------------------|-----------------------------------------|-----------|
| 1       | 5210                          | 16.19                         | 17.00                        | 62.92                                   | PASS      |
| 2       | 5250                          | 15.88                         | 17.00                        | 59.08                                   | PASS      |
| 3       | 5290                          | 16.02                         | 24.00                        | 59.08                                   | PASS      |
| 4       | 5760                          | 15.04                         | 24.00                        | 51.36                                   | PASS      |
| 5       | 5800                          | 13.55                         | 30.00                        | 52.30                                   | PASS      |

**NOTE:** For the plot of 26dBc Occupied Bandwidth and Peak Power Output value, please refer to the following pages.

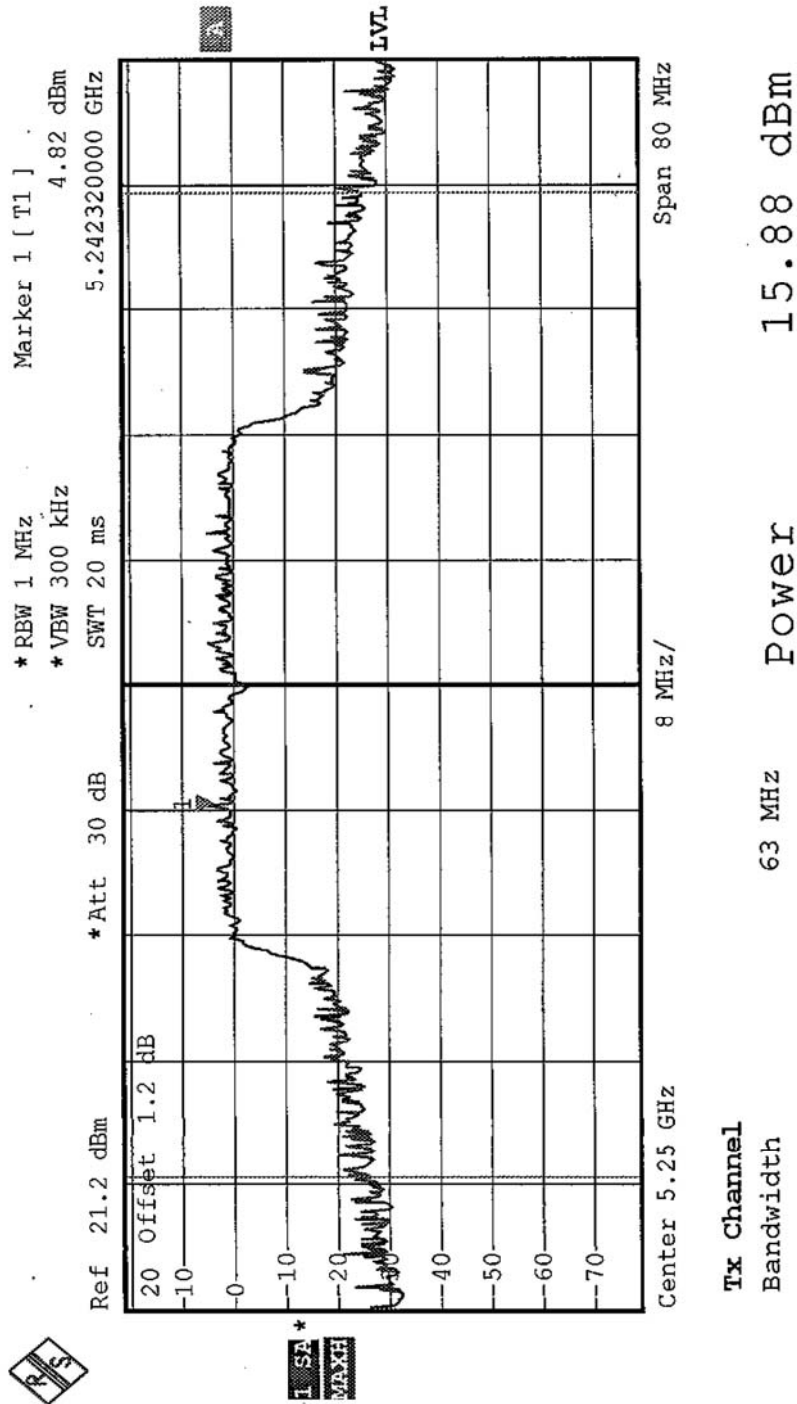


CH1



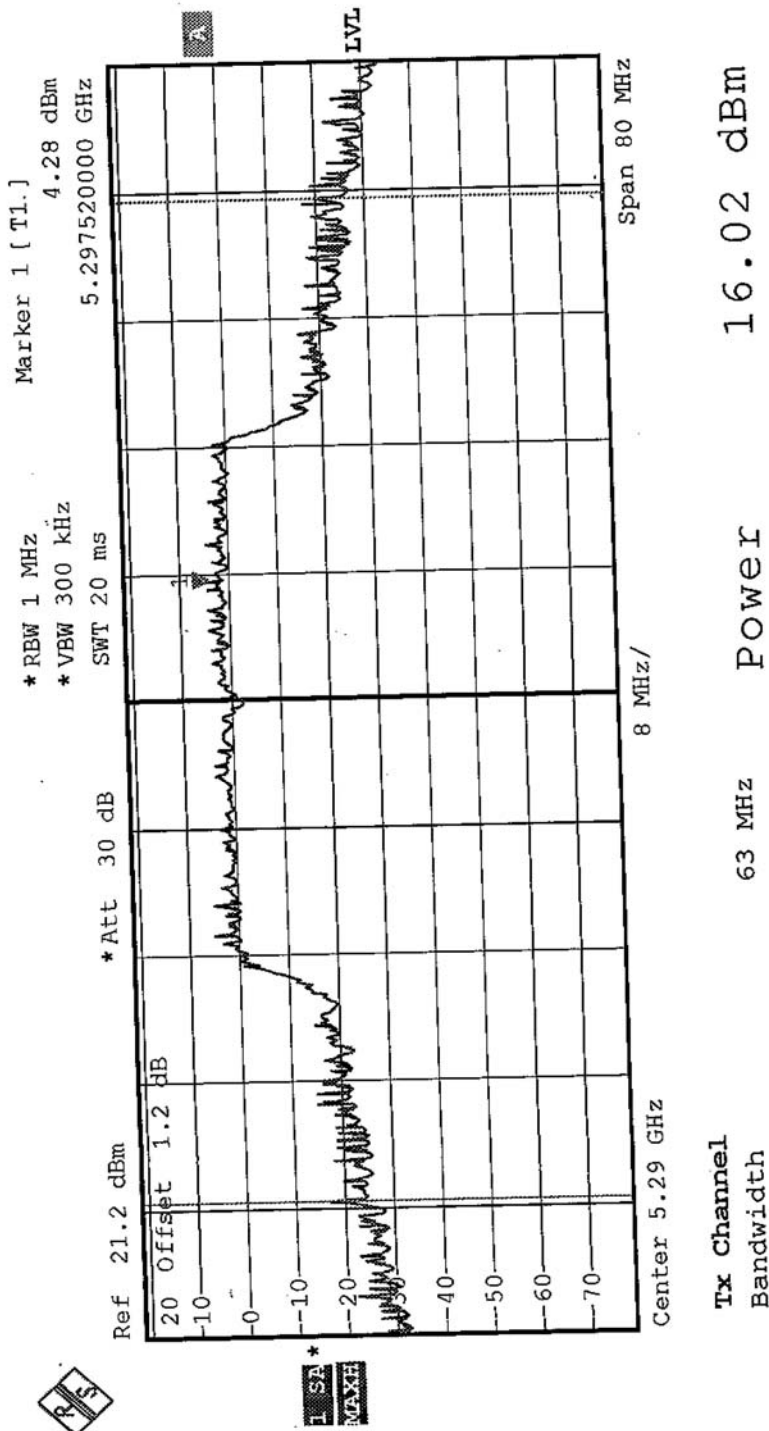


CH2

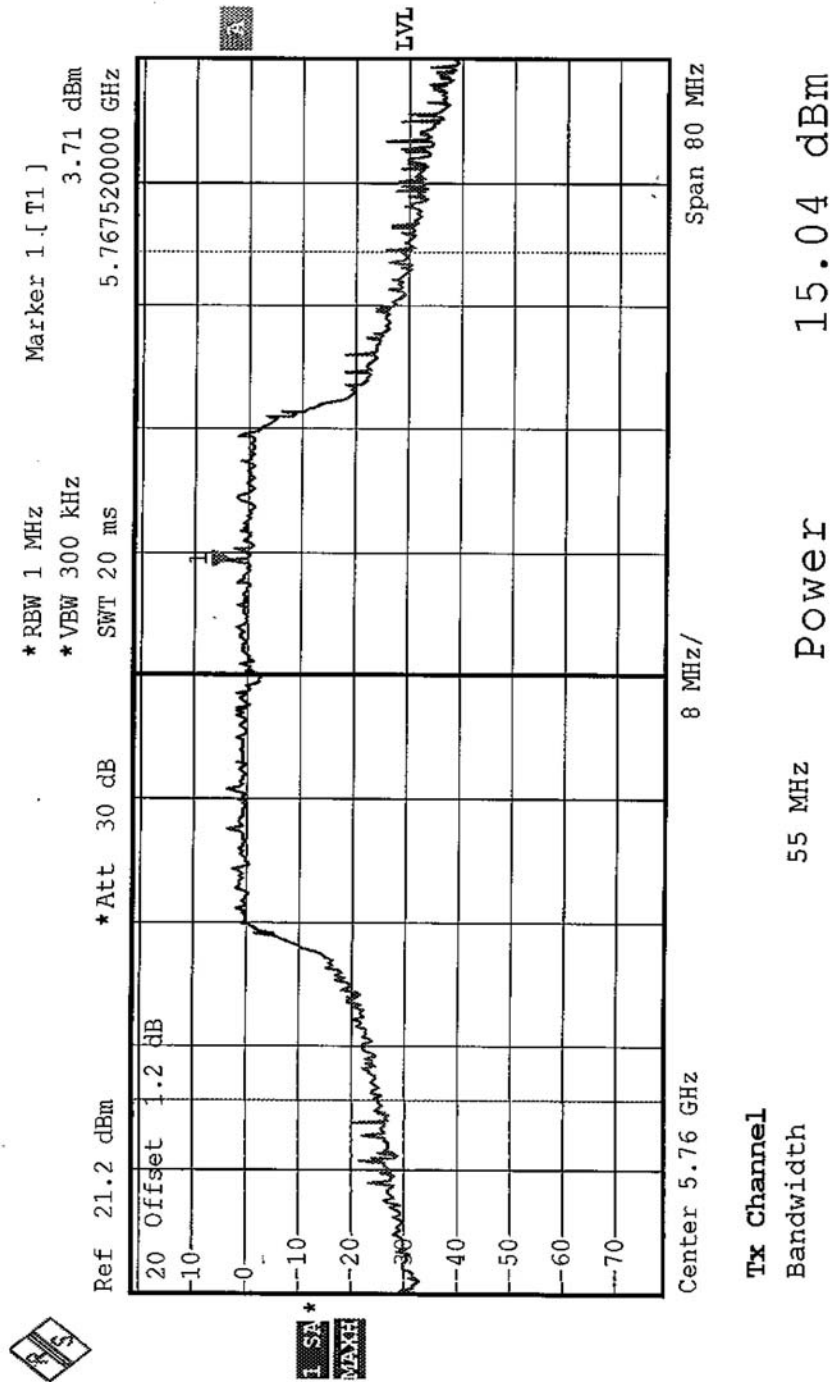




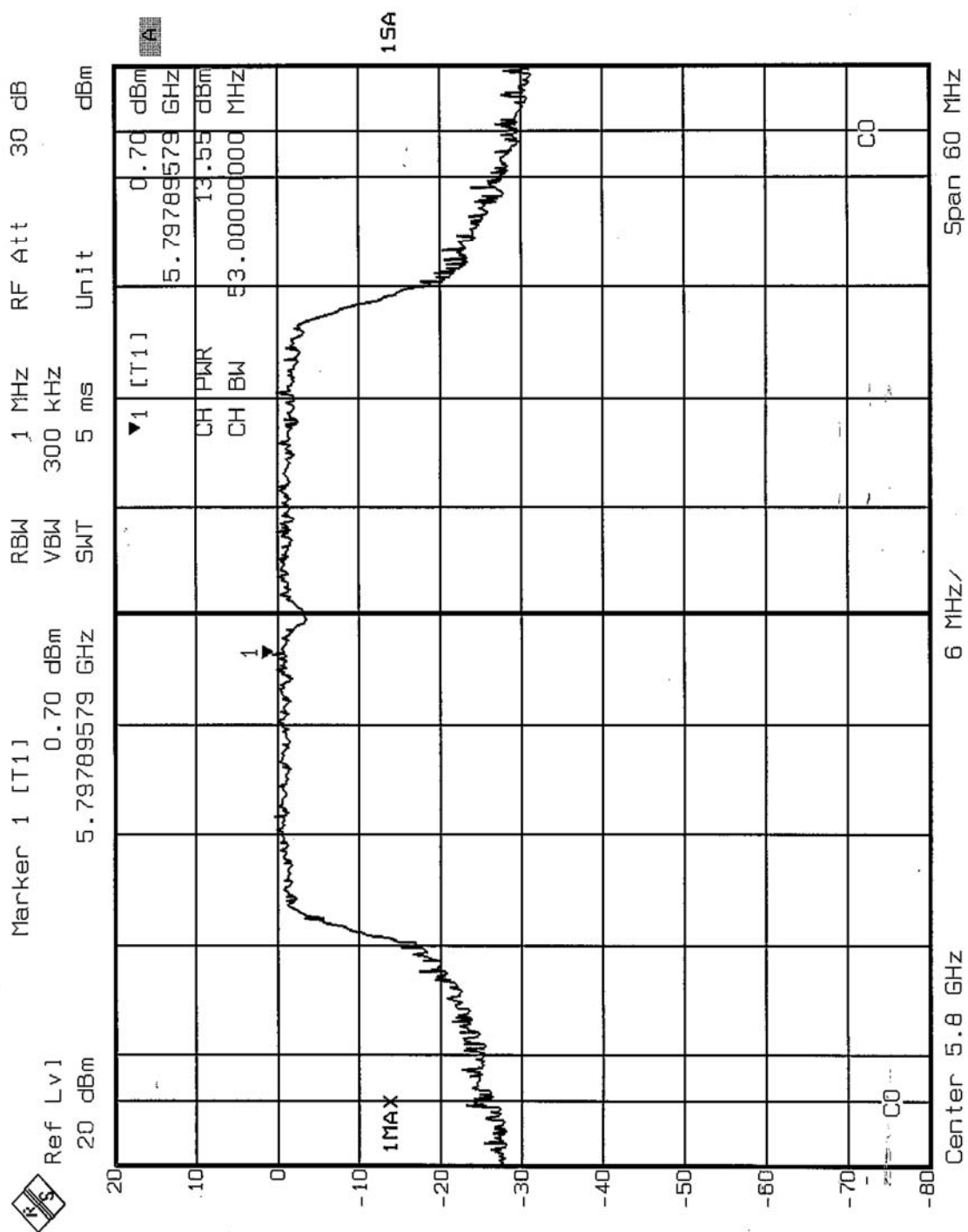
CH3



## CH4

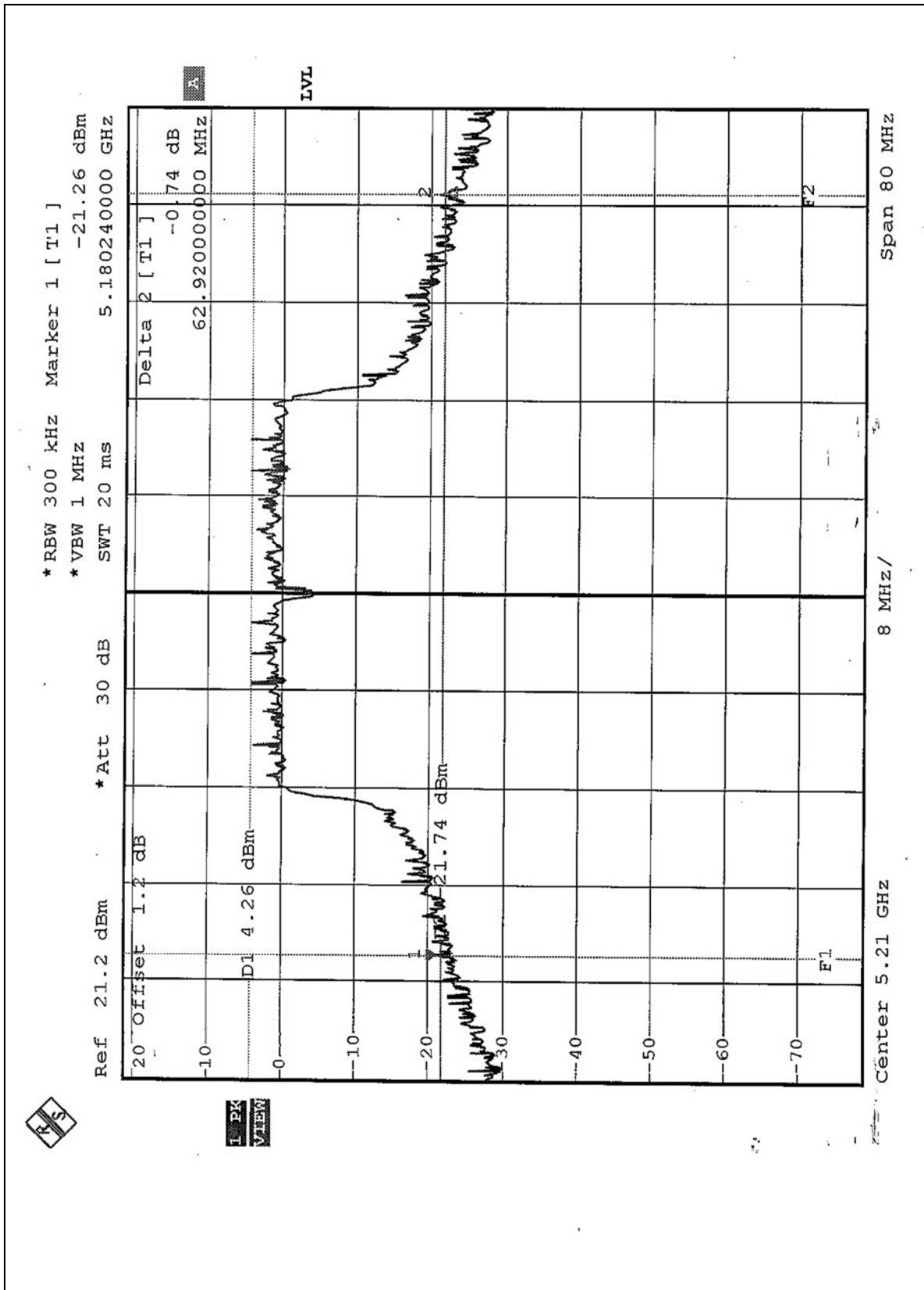


## CH5



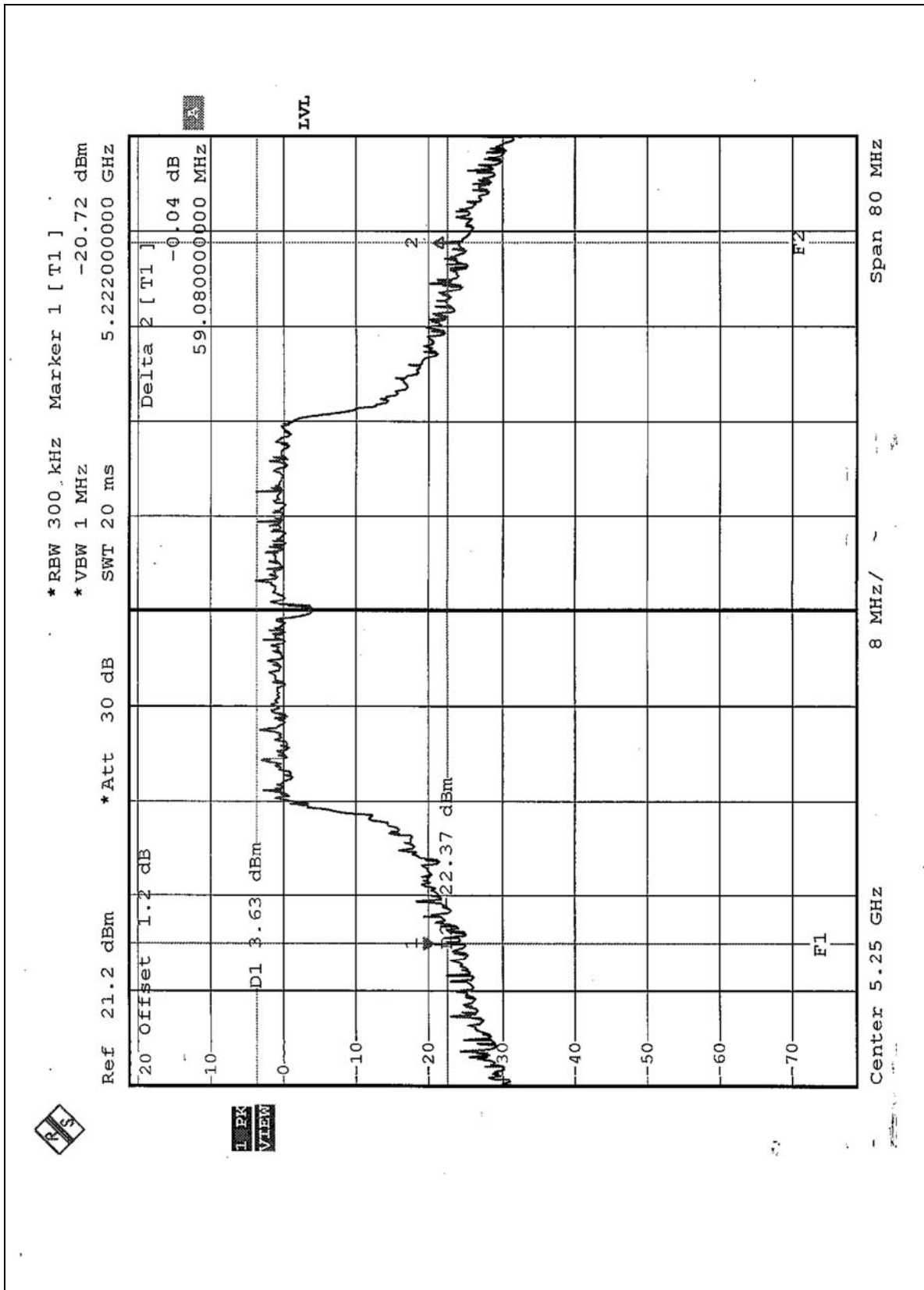


## CH 1

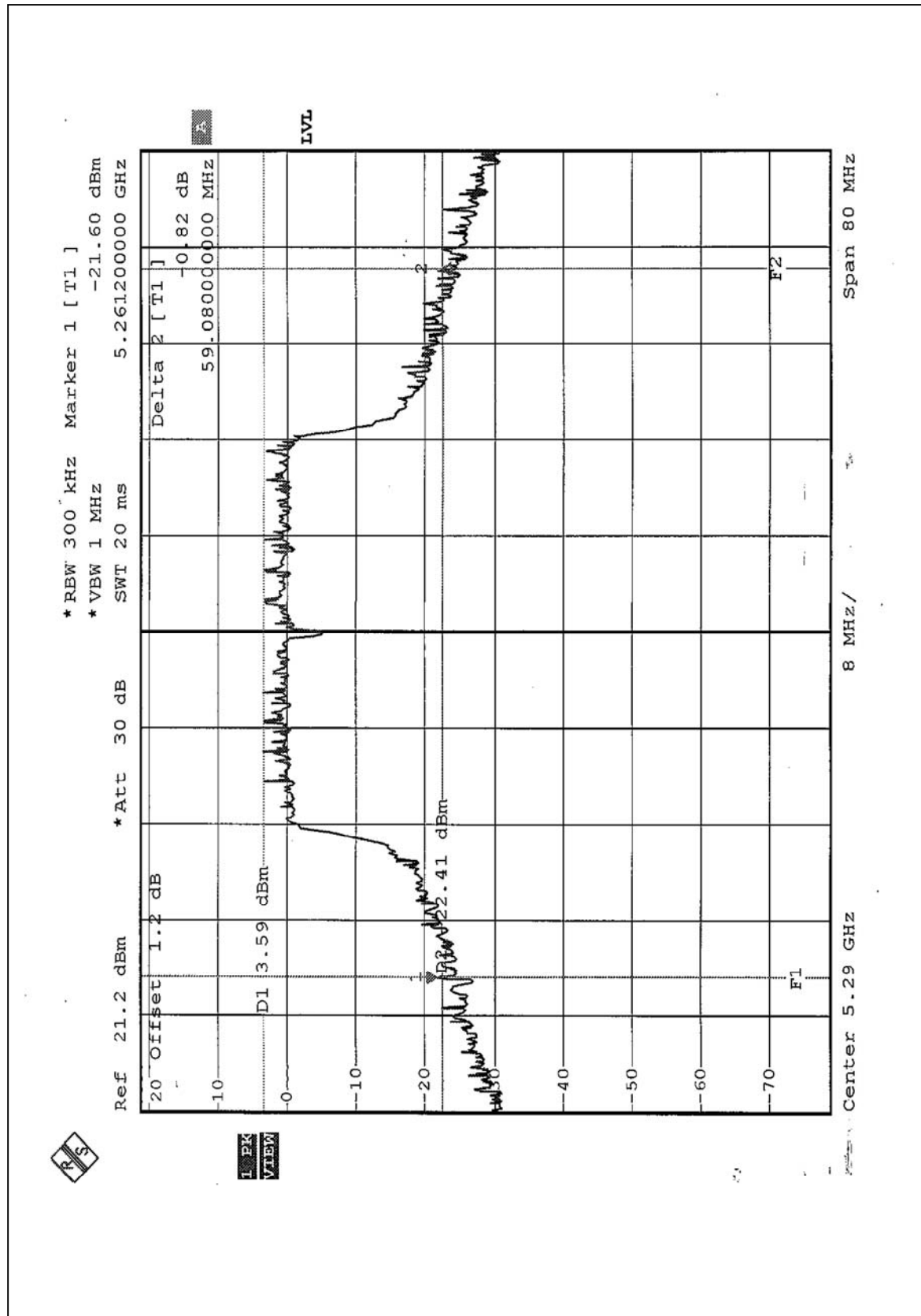




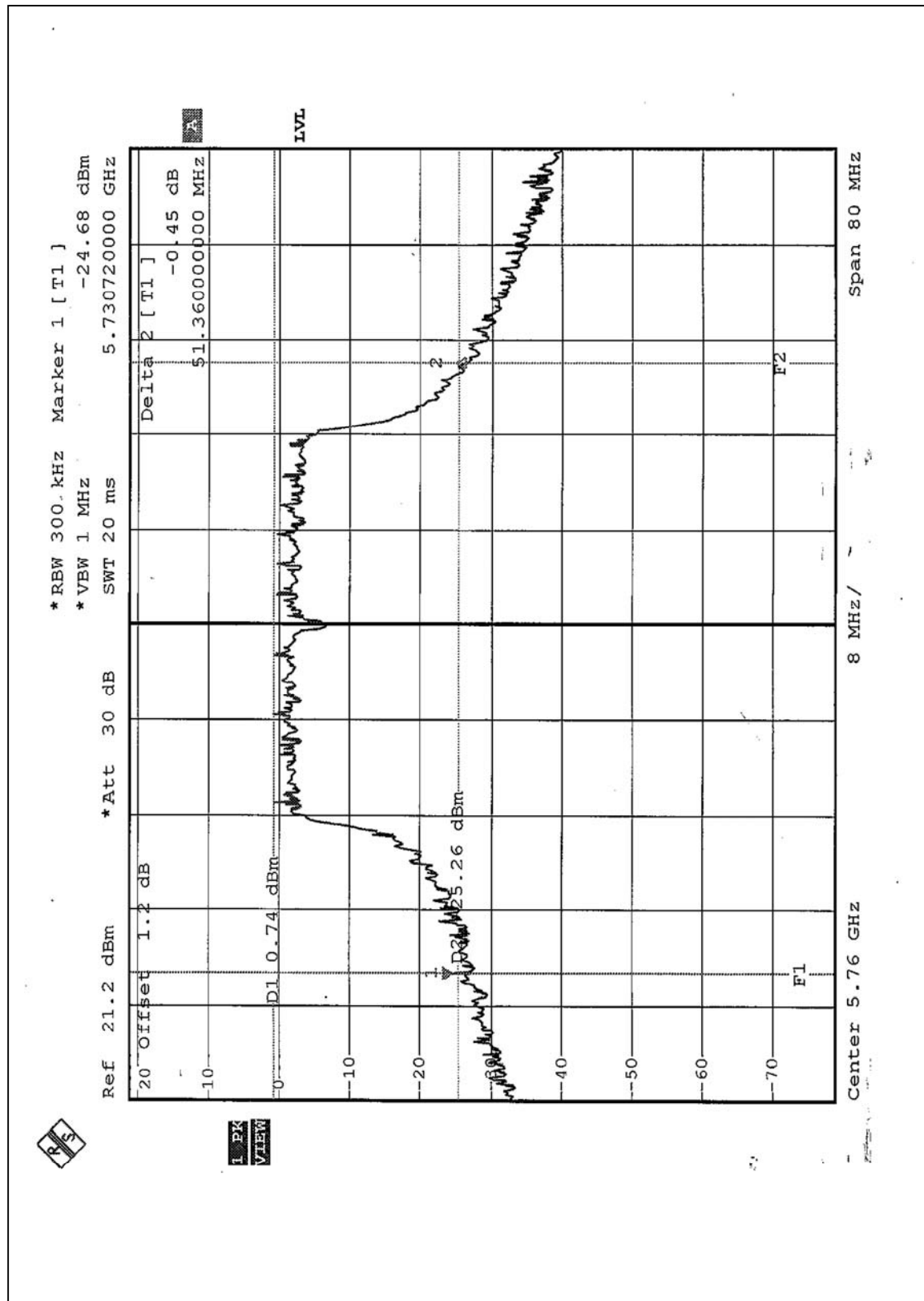
## CH2



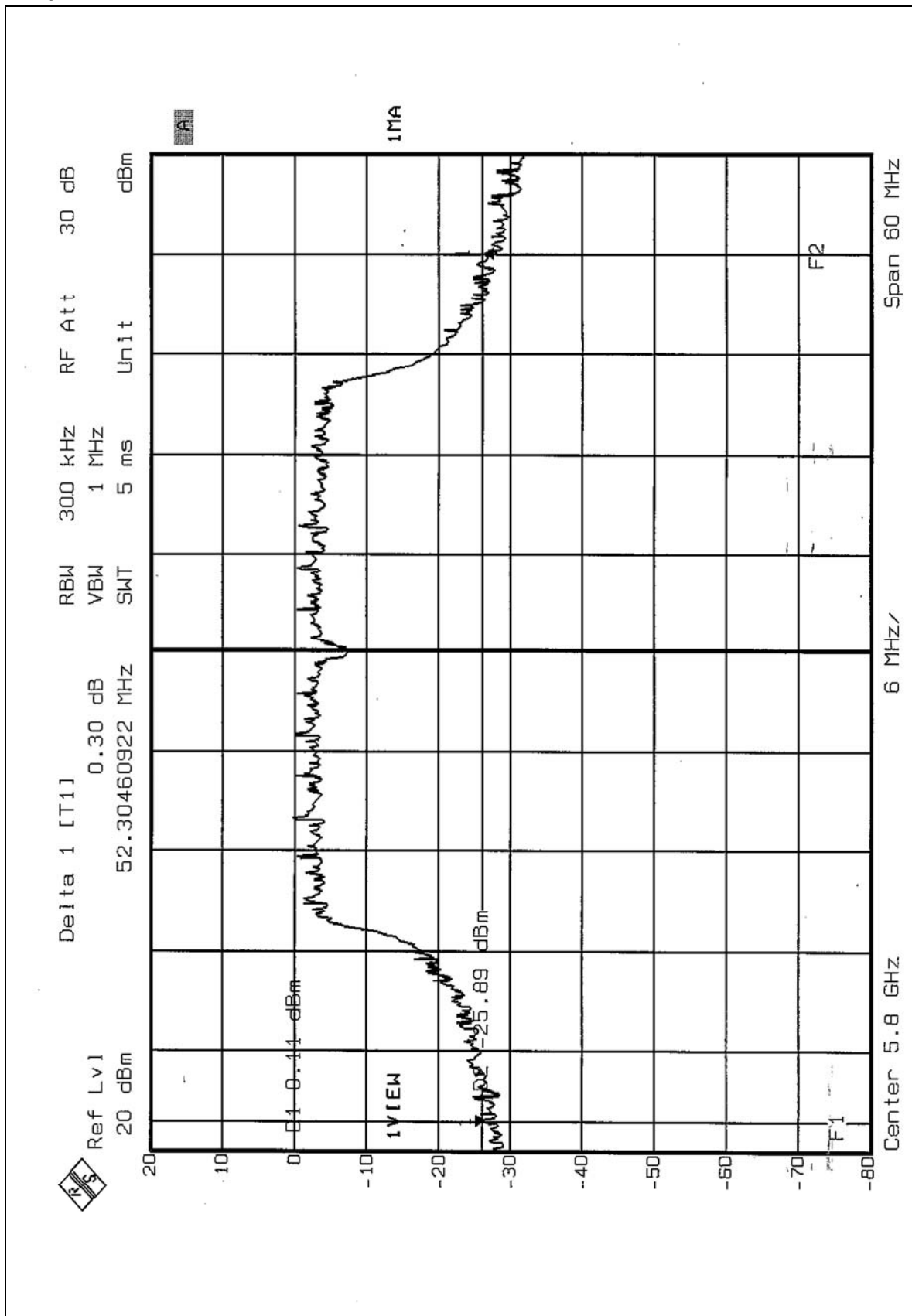
## CH3



## CH4



## CH5



**NORMAL MODE (MODE 3 、MODE4)**

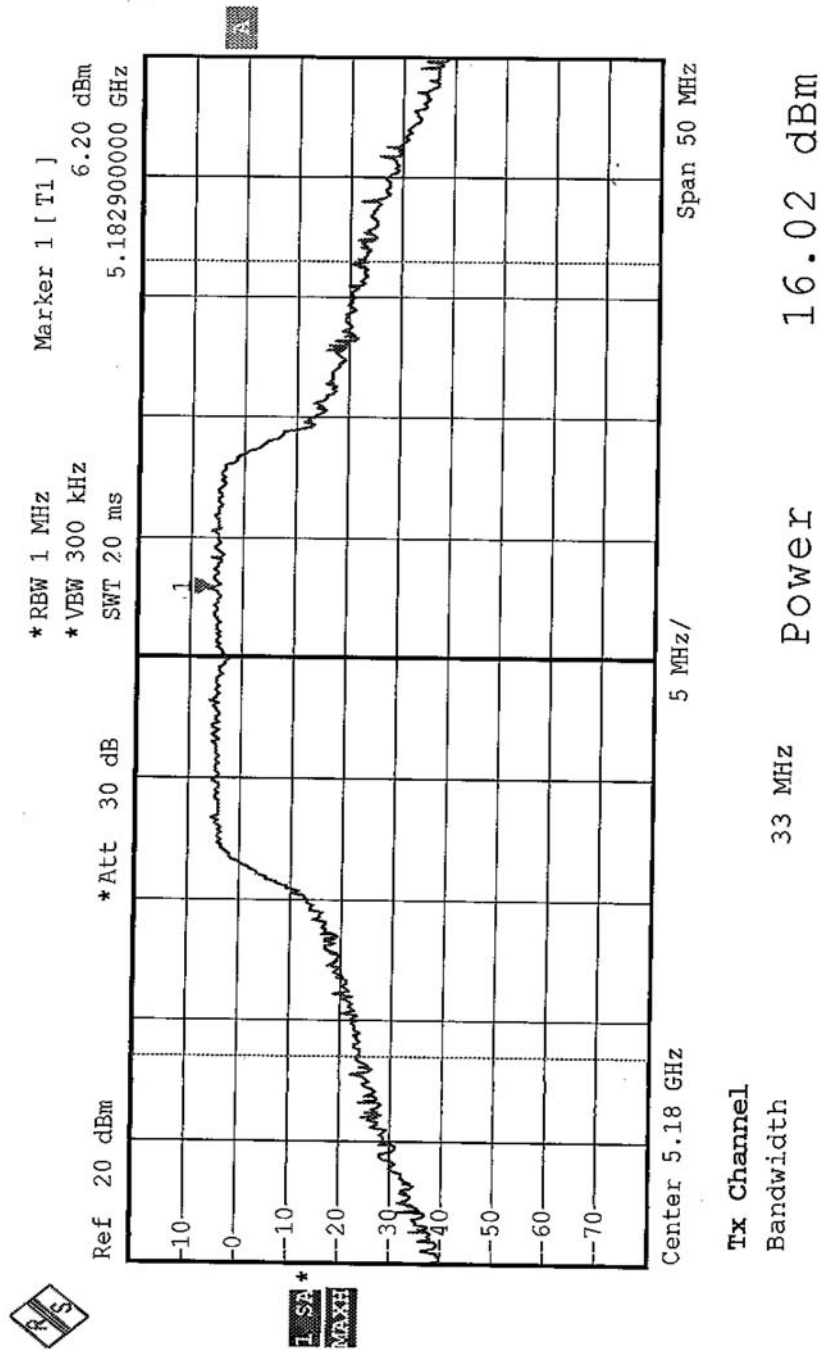
|                                     |                                           |                                 |               |
|-------------------------------------|-------------------------------------------|---------------------------------|---------------|
| <b>EUT</b>                          | 2.4/5GHz 54Mbps<br>Wireless Mini PCI Card | <b>MODEL</b>                    | GL2554MP-1A   |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 24deg. C, 63%RH,<br>991hPa                | <b>INPUT POWER<br/>(SYSTEM)</b> | 120Vac, 60 Hz |
| <b>TESTED BY</b>                    | Ansen Lei                                 |                                 |               |

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | PEAK POWER<br>OUTPUT<br>(dBm) | PEAK POWER<br>LIMIT<br>(dBm) | 26dBc<br>Occupied<br>Bandwidth<br>(MHz) | PASS/FAIL |
|---------|-------------------------------|-------------------------------|------------------------------|-----------------------------------------|-----------|
| 1       | 5180                          | 16.02                         | 17.00                        | 31.84                                   | PASS      |
| 4       | 5240                          | 16.15                         | 17.00                        | 28.37                                   | PASS      |
| 5       | 5260                          | 16.52                         | 24.00                        | 27.25                                   | PASS      |
| 8       | 5320                          | 15.25                         | 24.00                        | 27.90                                   | PASS      |
| 9       | 5745                          | 13.16                         | 30.00                        | 29.12                                   | PASS      |
| 12      | 5805                          | 12.29                         | 30.00                        | 29.44                                   | PASS      |

**NOTE:** For the plot of 26dBc Occupied Bandwidth and Peak Power Output value, please refer to the following pages.

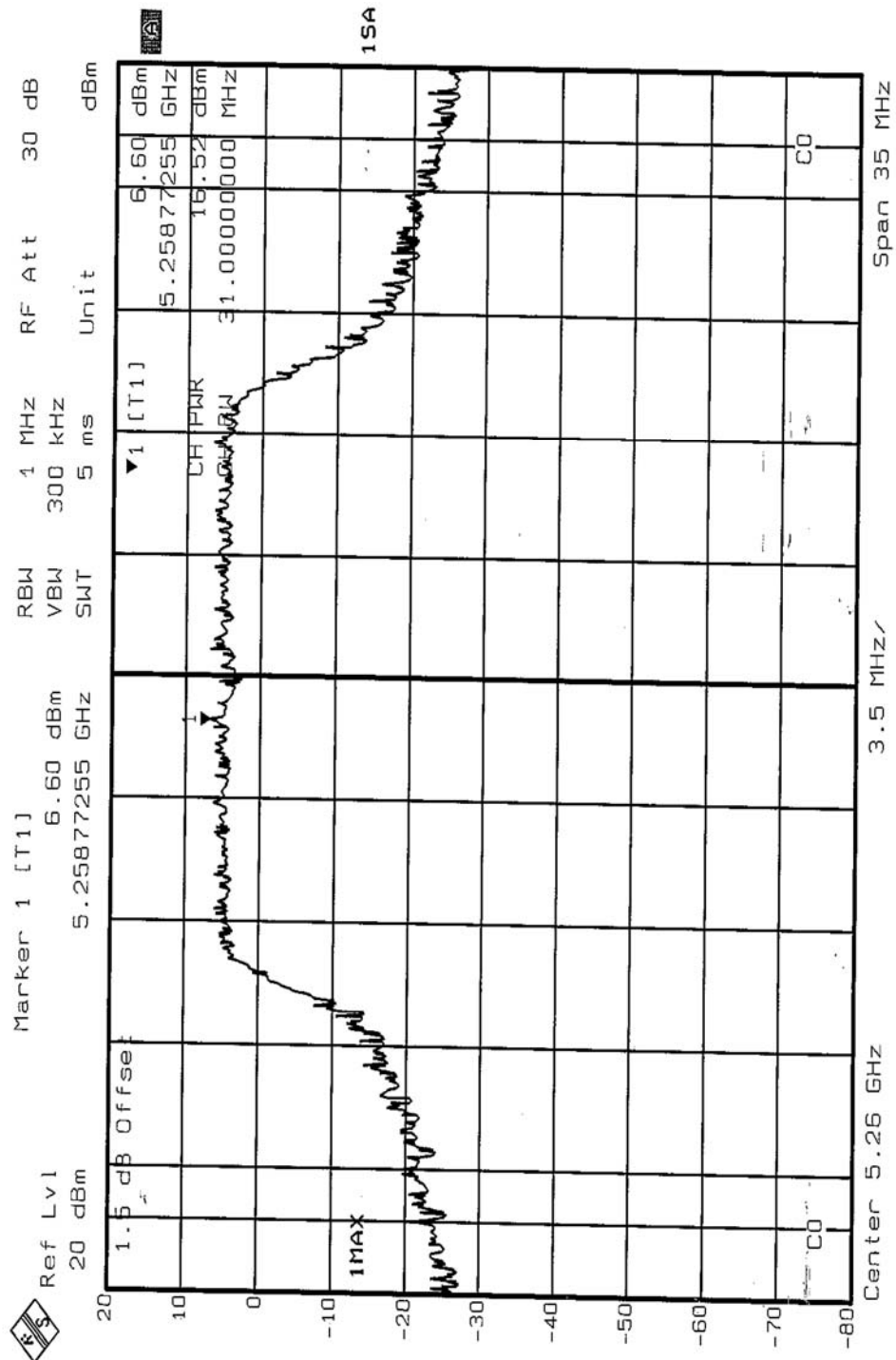


CH1



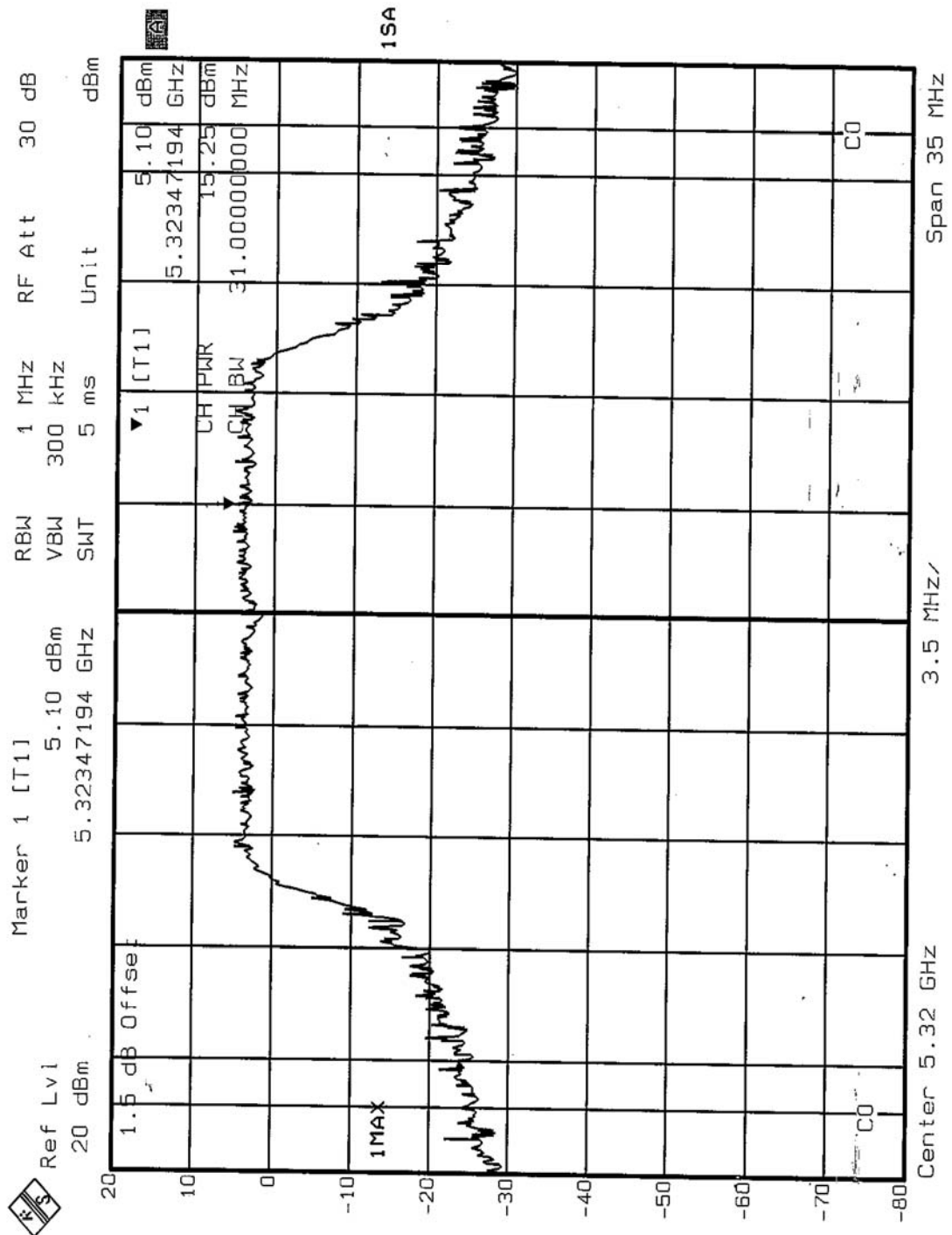


## CH5



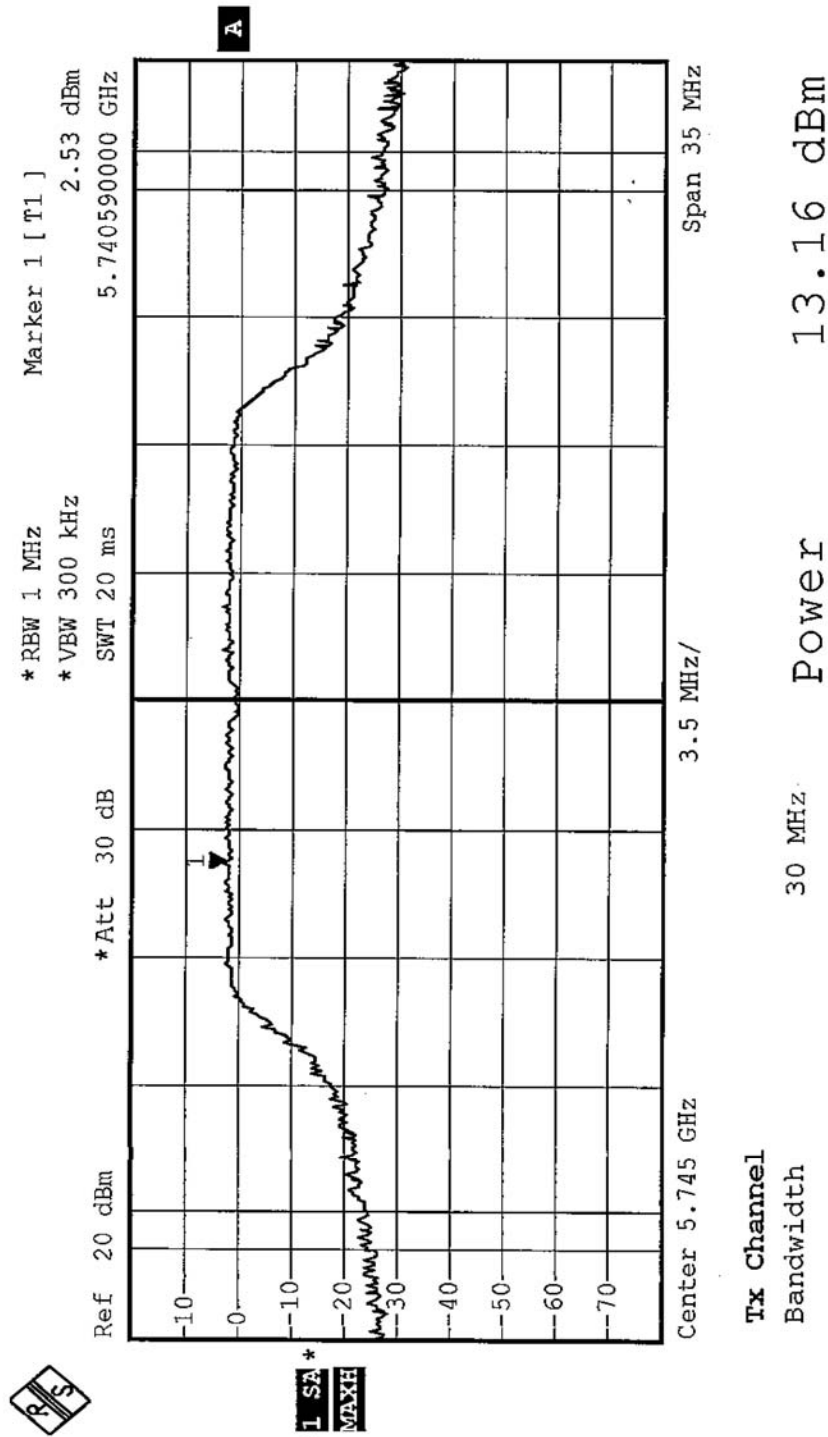


## CH8

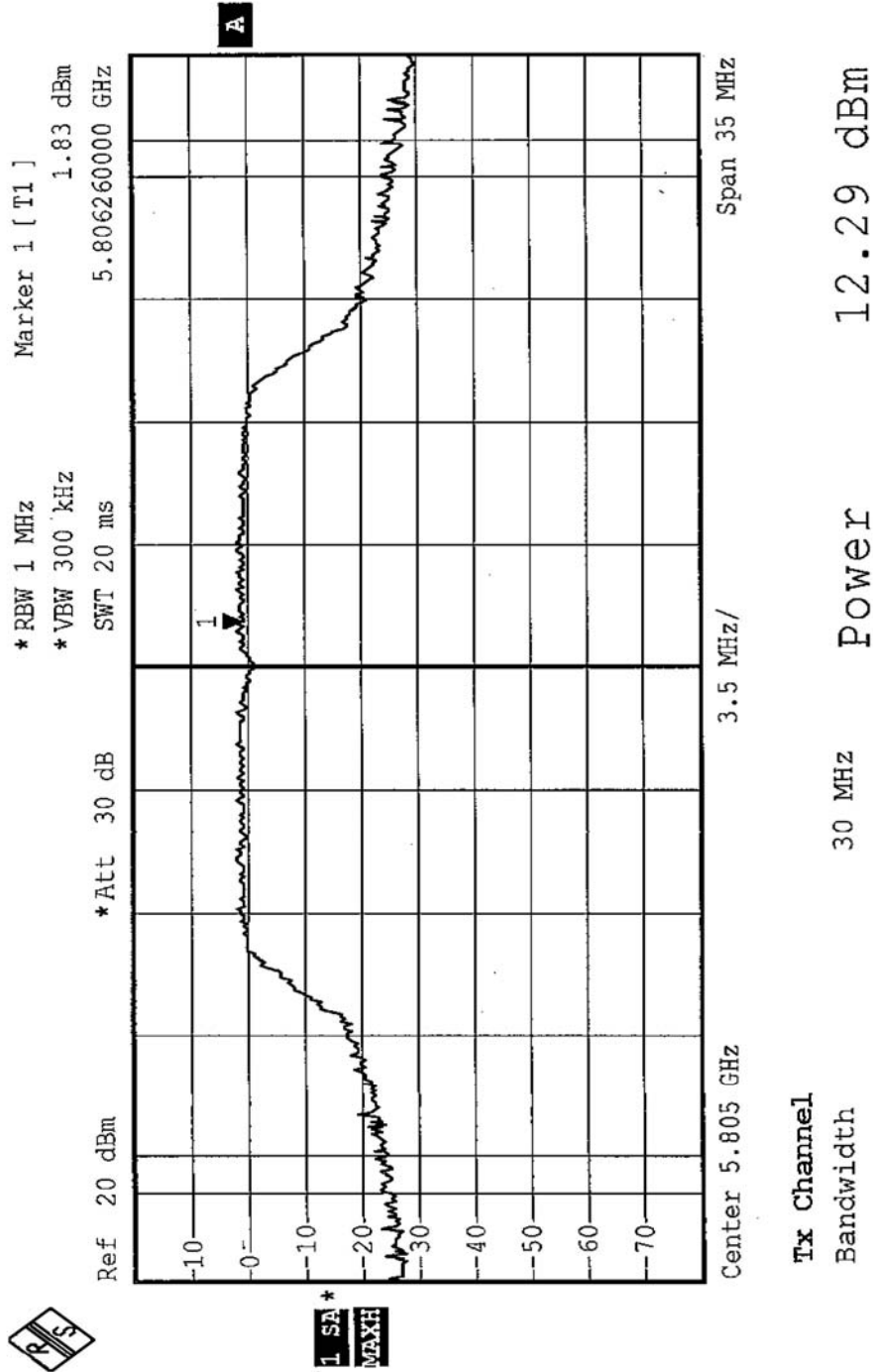




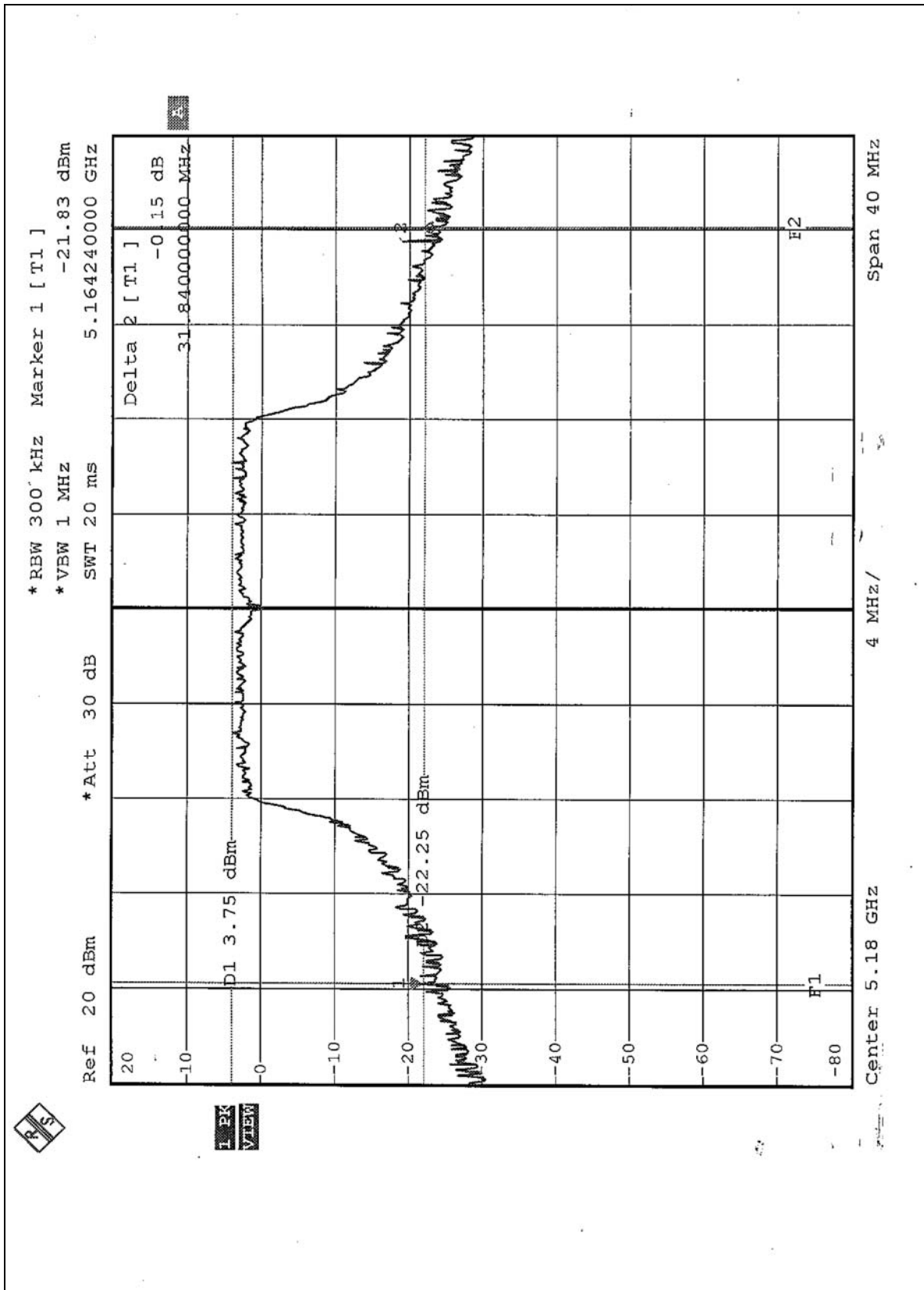
CH9



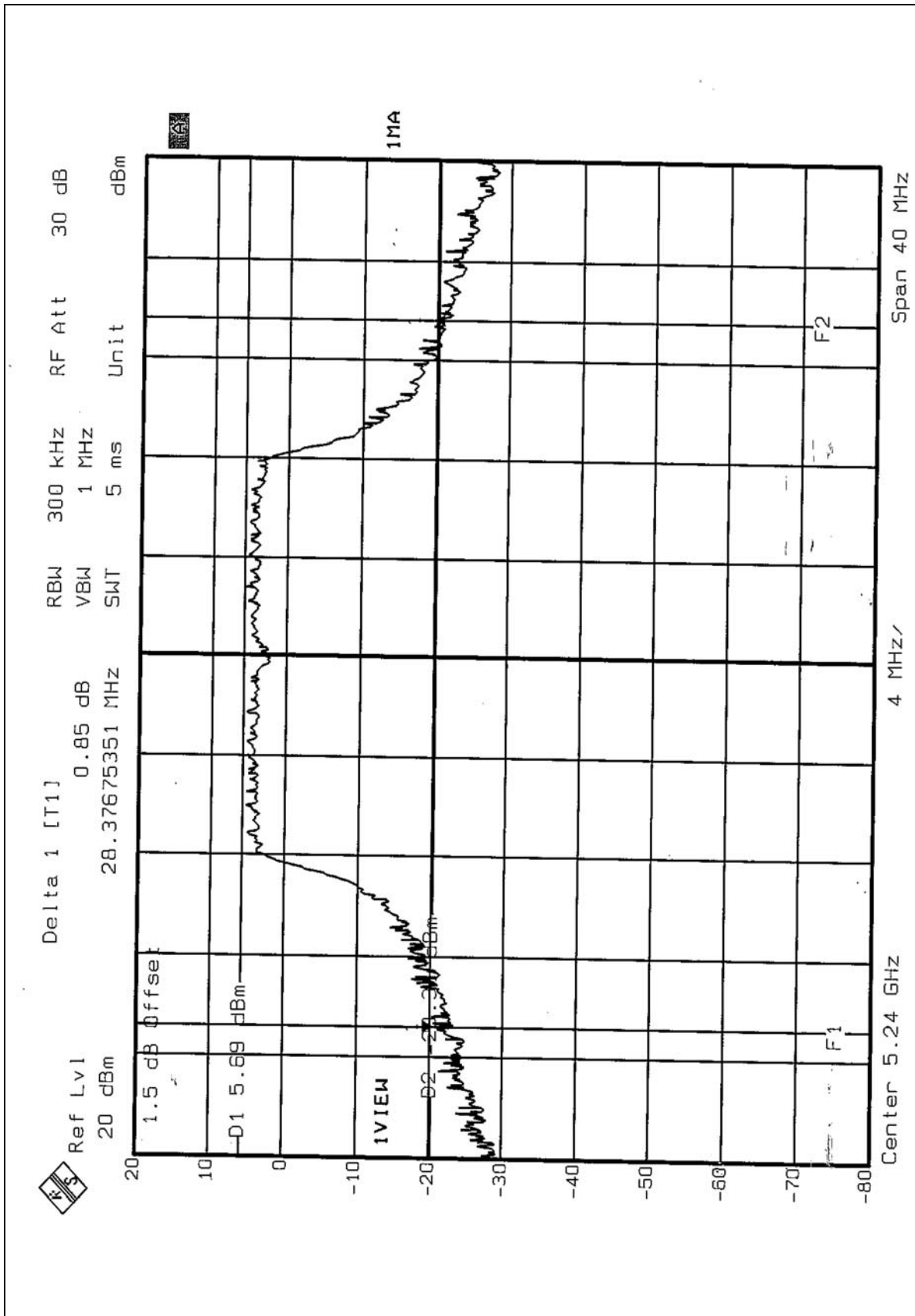
# CH12



## CH 1



## CH4



## CH5

