# APPENDIX E

# *DATA SHEETS*

# *RADIATED EMISSIONS*

# *DATA SHEETS*

**FCC 15.247**

Intel Corporation — Date: 3/17/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 1 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.61 dBm Avg. Power: 15.01 dBm

**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 4824 | 41.32 | V | 74 | -32.68 | Peak | 1.13 | 225 | |
| 4824 | 32.91 | V | 54 | -21.09 | Avg | 1.13 | 225 | |
| | | | | | | | | |
| 7236 | 41.26 | V | 74 | -32.74 | Peak | 1.51 | 225 | |
| 7236 | 27.68 | V | 54 | -26.32 | Avg | 1.51 | 225 | |
| | | | | | | | | |
| 9648 | 53.4 | V | -- | -- | Peak | 1.46 | 180 | Not in Restricted Band |
| 9648 | 48.33 | V | -- | -- | Avg | 1.46 | 180 | Not in Restricted Band |
| | | | | | | | | |
| 12060 | 46.24 | V | 74 | -27.76 | Peak | 2.16 | 225 | |
| 12060 | 33.33 | V | 54 | -20.67 | Avg | 2.16 | 225 | |
| | | | | | | | | |
| 14472 | 49.63 | V | 74 | -24.37 | Peak | 1.74 | 180 | |
| 14472 | 35.65 | V | 54 | -18.35 | Avg | 1.74 | 180 | |
| | | | | | | | | |
| 16884 | 48.98 | V | -- | -- | Peak | 1.65 | 180 | Not in Restricted Band |
| 16884 | 35.33 | V | -- | -- | Avg | 1.65 | 180 | Not in Restricted Band |
| | | | | | | | | |
| 19296 | | V | 74 | -74 | Peak | | | No Emissions |
| 19296 | | V | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 21708 | | V | -- | -- | Peak | | | No Emissions |
| 21708 | | V | -- | -- | Avg | | | Detected |
| | | | | | | | | |
| 24120 | | V | -- | -- | Peak | | | No Emissions |
| 24120 | | V | -- | -- | Avg | | | Detected |
| | | | | | | | | |

**FCC 15.247**
Intel Corporation Date: 3/17/05
Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter Lab: B
Model: WM3B2200BG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
**With Phycomp Antenna**
**Channel 1 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.61 dBm Avg. Power: 15.01 dBm
**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 4824 | 38.62 | H | 74 | -35.38 | Peak | 2.37 | 180 | |
| 4824 | 28.31 | H | 54 | -25.69 | Avg | 2.37 | 180 | |
| | | | | | | | | |
| 7236 | 41.02 | H | 74 | -32.98 | Peak | 2.13 | 225 | |
| 7236 | 27.57 | H | 54 | -26.43 | Avg | 2.13 | 225 | |
| | | | | | | | | |
| 9648 | 53.39 | H | -- | -- | Peak | 2.61 | 180 | Not in Restricted Band |
| 9648 | 48.33 | H | -- | -- | Avg | 2.61 | 180 | Not in Restricted Band |
| | | | | | | | | |
| 12060 | 46.58 | H | 74 | -27.42 | Peak | 2.44 | 225 | |
| 12060 | 33.24 | H | 54 | -20.76 | Avg | 2.44 | 225 | |
| | | | | | | | | |
| 14472 | 49.06 | H | 74 | -24.94 | Peak | 2.56 | 180 | |
| 14472 | 35.91 | H | 54 | -18.09 | Avg | 2.56 | 180 | |
| | | | | | | | | |
| 16884 | 49.15 | H | -- | -- | Peak | 2.2 | 225 | Not in Restricted Band |
| 16884 | 35.67 | H | -- | -- | Avg | 2.2 | 225 | Not in Restricted Band |
| | | | | | | | | |
| 19296 | | H | 74 | -74 | Peak | | | No Emissions |
| 19296 | | H | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 21708 | | H | -- | -- | Peak | | | No Emissions |
| 21708 | | H | -- | -- | Avg | | | Detected |
| | | | | | | | | |
| 24120 | | H | -- | -- | Peak | | | No Emissions |
| 24120 | | H | -- | -- | Avg | | | Detected |
| | | | | | | | | |

**FCC 15.247**
Intel Corporation Date: 3/16/05
Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter Lab: B
Model: WM3B2200BG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
**With Phycomp Antenna**
**Channel 6 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.44 dBm Avg. Power: 14.98 dBm
**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 4874 | 41.55 | V | 74 | -32.45 | Peak | 1.1 | 225 | |
| 4874 | 34.42 | V | 54 | -19.58 | Avg | 1.1 | 225 | |
| | | | | | | | | |
| 7311 | 40.17 | V | 74 | -33.83 | Peak | 2.14 | 180 | |
| 7311 | 27.2 | V | 54 | -26.8 | Avg | 2.14 | 180 | |
| | | | | | | | | |
| 9748 | 55.76 | V | -- | -- | Peak | 2.86 | 225 | Not in Restricted Band |
| 9748 | 52.17 | V | -- | -- | Avg | 2.86 | 225 | Not in Restricted Band |
| | | | | | | | | |
| 12185 | 47.84 | V | 74 | -26.16 | Peak | 2.84 | 270 | |
| 12185 | 35.58 | V | 54 | -18.42 | Avg | 2.84 | 270 | |
| | | | | | | | | |
| 14622 | 48.52 | V | -- | -- | Peak | 2.1 | 180 | Not in Restricted Band |
| 14622 | 35.01 | V | -- | -- | Avg | 2.1 | 180 | Not in Restricted Band |
| | | | | | | | | |
| 17059 | 50.47 | V | -- | -- | Peak | 2.34 | 225 | Not in Restricted Band |
| 17059 | 37.17 | V | -- | -- | Avg | 2.34 | 225 | Not in Restricted Band |
| | | | | | | | | |
| 19496 | | V | 74 | -74 | Peak | | | No Emissions |
| 19496 | | V | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 21933 | | V | -- | -- | Peak | | | No Emissions |
| 21933 | | V | -- | -- | Avg | | | Detected |
| | | | | | | | | |
| 22001 | | V | 74 | -74 | Peak | | | No Emissions |
| 22001 | | V | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 24370 | | V | -- | -- | Peak | | | No Emissions |
| 24370 | | V | -- | -- | Avg | | | Detected |
| | | | | | | | | |

**FCC 15.247**
Intel Corporation Date: 3/16/05
Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter Lab: B
Model: WM3B2200BG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
**With Phycomp Antenna**
**Channel 6 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.44 dBm Avg. Power: 14.98 dBm
**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 4874 | 38.4 | H | 74 | -35.6 | Peak | 1.57 | 225 | |
| 4874 | 27.72 | H | 54 | -26.28 | Avg | 1.57 | 225 | |
| | | | | | | | | |
| 7311 | 41.41 | H | 74 | -32.59 | Peak | 2.03 | 225 | |
| 7311 | 41.41 | H | 54 | -12.59 | Avg | 2.03 | 225 | |
| | | | | | | | | |
| 9748 | 54.82 | H | -- | -- | Peak | 2.96 | 180 | Not in Restricted Band |
| 9748 | 51.31 | H | -- | -- | Avg | 2.96 | 180 | Not in Restricted Band |
| | | | | | | | | |
| 12185 | 45.66 | H | 74 | -28.34 | Peak | 1.66 | 180 | |
| 12185 | 32.54 | H | 54 | -21.46 | Avg | 1.66 | 180 | |
| | | | | | | | | |
| 14622 | 48.12 | H | -- | -- | Peak | 1.69 | 135 | Not in Restricted Band |
| 14622 | 34.33 | H | -- | -- | Avg | 1.69 | 135 | Not in Restricted Band |
| | | | | | | | | |
| 17059 | 50.64 | H | -- | -- | Peak | 1.82 | 180 | Not in Restricted Band |
| 17059 | 37.08 | H | -- | -- | Avg | 1.82 | 180 | Not in Restricted Band |
| | | | | | | | | |
| 19496 | | H | 74 | -74 | Peak | | | No Emissions |
| 19496 | | H | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 21933 | | H | -- | -- | Peak | | | No Emissions |
| 21933 | | H | -- | -- | Avg | | | Detected |
| | | | | | | | | |
| 22001 | | H | 74 | -74 | Peak | | | No Emissions |
| 22001 | | H | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 24370 | | H | -- | -- | Peak | | | No Emissions |
| 24370 | | H | -- | -- | Avg | | | Detected |
| | | | | | | | | |

**FCC 15.247**

Intel Corporation — Date: 3/16/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 11 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.53 dBm Avg. Power: 15.12 dBm

**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 4924 | 42.2 | V | 74 | -31.8 | Peak | 1.58 | 45 | |
| 4924 | 35.72 | V | 54 | -18.28 | Avg | 1.58 | 45 | |
| | | | | | | | | |
| 7386 | 40.74 | V | 74 | -33.26 | Peak | 1.83 | 180 | |
| 7386 | 27.26 | V | 54 | -26.74 | Avg | 1.83 | 180 | |
| | | | | | | | | |
| 9848 | 54.48 | V | -- | -- | Peak | 2.36 | 225 | Not in Restricted Band |
| 9848 | 50.66 | V | -- | -- | Avg | 2.36 | 225 | Not in Restricted Band |
| | | | | | | | | |
| 12310 | 45.53 | V | 74 | -28.47 | Peak | 2.19 | 225 | |
| 12310 | 32.3 | V | 54 | -21.7 | Avg | 2.19 | 225 | |
| | | | | | | | | |
| 14772 | 49.31 | V | -- | -- | Peak | 2.6 | 180 | Not in Restricted Band |
| 14772 | 35.36 | V | -- | -- | Avg | 2.6 | 180 | Not in Restricted Band |
| | | | | | | | | |
| 17234 | 50.2 | V | -- | -- | Peak | 2.54 | 225 | Not in Restricted Band |
| 17234 | 36.97 | V | -- | -- | Avg | 2.54 | 225 | Not in Restricted Band |
| | | | | | | | | |
| 19696 | | V | 74 | -74 | Peak | | | No Emissions |
| 19696 | | V | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 22158 | | V | 74 | -74 | Peak | | | No Emissions |
| 22158 | | V | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 24620 | | V | -- | -- | Peak | | | No Emissions |
| 24620 | | V | -- | -- | Avg | | | Detected |
| | | | | | | | | |

**FCC 15.247**

Intel Corporation — Date: 3/16/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 11 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.53 dBm Avg. Power: 15.12 dBm

**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 4924 | 41.23 | H | 74 | -32.77 | Peak | 3.06 | 225 | |
| 4924 | 34.55 | H | 54 | -19.45 | Avg | 3.06 | 225 | |
| | | | | | | | | |
| 7386 | 39.61 | H | 74 | -34.39 | Peak | 2.46 | 180 | |
| 7386 | 26.49 | H | 54 | -27.51 | Avg | 2.46 | 180 | |
| | | | | | | | | |
| 9848 | 54.08 | H | -- | -- | Peak | 2.33 | 180 | Not in Restricted Band |
| 9848 | 50.36 | H | -- | -- | Avg | 2.33 | 180 | Not in Restricted Band |
| | | | | | | | | |
| 12310 | 45.22 | H | 74 | -28.78 | Peak | 1.84 | 135 | |
| 12310 | 31.5 | H | 54 | -22.5 | Avg | 1.84 | 135 | |
| | | | | | | | | |
| 14772 | 48.57 | H | -- | -- | Peak | 2.17 | 135 | Not in Restricted Band |
| 14772 | 35.55 | H | -- | -- | Avg | 2.17 | 135 | Not in Restricted Band |
| | | | | | | | | |
| 17234 | 50.81 | H | -- | -- | Peak | 1.97 | 180 | Not in Restricted Band |
| 17234 | 37.06 | H | -- | -- | Avg | 1.97 | 180 | Not in Restricted Band |
| | | | | | | | | |
| 19696 | | H | 74 | -74 | Peak | | | No Emissions |
| 19696 | | H | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 22158 | | H | 74 | -74 | Peak | | | No Emissions |
| 22158 | | H | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 24620 | | H | -- | -- | Peak | | | No Emissions |
| 24620 | | H | -- | -- | Avg | | | Detected |
| | | | | | | | | |

**FCC 15.247**

Intel Corporation — Date: 3/16/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 1 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.50 dBm Avg. Power: 9.93 dBm

**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 4824 | 35.34 | V | 74 | -38.66 | Peak | 1.73 | 270 | |
| 4824 | 24.07 | V | 54 | -29.93 | Avg | 1.73 | 270 | |
| | | | | | | | | |
| 7236 | 40.07 | V | 74 | -33.93 | Peak | 2.19 | 90 | |
| 7236 | 27.27 | V | 54 | -26.73 | Avg | 2.19 | 90 | |
| | | | | | | | | |
| 9648 | 46.86 | V | -- | -- | Peak | 2.1 | 135 | Not in Restricted Band |
| 9648 | 33.47 | V | -- | -- | Avg | 2.1 | 135 | Not in Restricted Band |
| | | | | | | | | |
| 12060 | 46.46 | V | 74 | -27.54 | Peak | 1.72 | 90 | |
| 12060 | 33.02 | V | 54 | -20.98 | Avg | 1.72 | 90 | |
| | | | | | | | | |
| 14472 | 48.16 | V | 74 | -25.84 | Peak | 1.72 | 225 | |
| 14472 | 36.26 | V | 54 | -17.74 | Avg | 1.72 | 225 | |
| | | | | | | | | |
| 16884 | 49.82 | V | -- | -- | Peak | 1.72 | 135 | Not in Restricted Band |
| 16884 | 34.98 | V | -- | -- | Avg | 1.72 | 135 | Not in Restricted Band |
| | | | | | | | | |
| 19296 | | V | 74 | -74 | Peak | | | No Emissions |
| 19296 | | V | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 21708 | | V | -- | -- | Peak | | | No Emissions |
| 21708 | | V | -- | -- | Avg | | | Detected |
| | | | | | | | | |
| 24120 | | V | -- | -- | Peak | | | No Emissions |
| 24120 | | V | -- | -- | Avg | | | Detected |
| | | | | | | | | |

**FCC 15.247**
Intel Corporation Date: 3/16/05
Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter Lab: B
Model: WM3B2200BG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
**With Phycomp Antenna**
**Channel 1 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.50 dBm Avg. Power: 9.93 dBm
**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 4824 | 35.72 | H | 74 | -38.28 | Peak | 1.79 | 45 | |
| 4824 | 23.64 | H | 54 | -30.36 | Avg | 1.79 | 45 | |
| | | | | | | | | |
| 7236 | 40.58 | H | 74 | -33.42 | Peak | 2.03 | 180 | |
| 7236 | 27.82 | H | 54 | -26.18 | Avg | 2.03 | 180 | |
| | | | | | | | | |
| 9648 | 47.02 | H | -- | -- | Peak | 1.62 | 180 | Not in Restricted Band |
| 9648 | 33.19 | H | -- | -- | Avg | 1.62 | 180 | Not in Restricted Band |
| | | | | | | | | |
| 12060 | 45.65 | H | 74 | -28.35 | Peak | 2.03 | 180 | |
| 12060 | 33.58 | H | 54 | -20.42 | Avg | 2.03 | 180 | |
| | | | | | | | | |
| 14472 | 47.72 | H | 74 | -26.28 | Peak | 1.47 | 135 | |
| 14472 | 36.96 | H | 54 | -17.04 | Avg | 1.47 | 135 | |
| | | | | | | | | |
| 16884 | 47.62 | H | -- | -- | Peak | 1.65 | 180 | Not in Restricted Band |
| 16884 | 34.51 | H | -- | -- | Avg | 1.65 | 180 | Not in Restricted Band |
| | | | | | | | | |
| 19296 | | H | 74 | -74 | Peak | | | No Emissions |
| 19296 | | H | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 21708 | | H | -- | -- | Peak | | | No Emissions |
| 21708 | | H | -- | -- | Avg | | | Detected |
| | | | | | | | | |
| 24120 | | H | -- | -- | Peak | | | No Emissions |
| 24120 | | H | -- | -- | Avg | | | Detected |
| | | | | | | | | |

**FCC 15.247**

Intel Corporation — Date: 3/16/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 6 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 4874 | 35.77 | V | 74 | -38.23 | Peak | 2.64 | 180 | |
| 4874 | 23.39 | V | 54 | -30.61 | Avg | 2.64 | 180 | |
| | | | | | | | | |
| 7311 | 40.2 | V | 74 | -33.8 | Peak | 2.42 | 225 | |
| 7311 | 28.01 | V | 54 | -25.99 | Avg | 2.42 | 225 | |
| | | | | | | | | |
| 9748 | 46.42 | V | -- | -- | Peak | 1.84 | 135 | Not in Restricted Band |
| 9748 | 32.62 | V | -- | -- | Avg | 1.84 | 135 | Not in Restricted Band |
| | | | | | | | | |
| 12185 | 47.61 | V | 74 | -26.39 | Peak | 2.42 | 270 | |
| 12185 | 33.25 | V | 54 | -20.75 | Avg | 2.42 | 270 | |
| | | | | | | | | |
| 14622 | 47.96 | V | -- | -- | Peak | 1.98 | 180 | Not in Restricted Band |
| 14622 | 35.35 | V | -- | -- | Avg | 1.98 | 180 | Not in Restricted Band |
| | | | | | | | | |
| 17059 | 48.62 | V | -- | -- | Peak | 1.23 | 180 | Not in Restricted Band |
| 17059 | 36.43 | V | -- | -- | Avg | 1.23 | 180 | Not in Restricted Band |
| | | | | | | | | |
| 19496 | | V | 74 | -74 | Peak | | | No Emissions |
| 19496 | | V | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 21933 | | V | -- | -- | Peak | | | No Emissions |
| 21933 | | V | -- | -- | Avg | | | Detected |
| | | | | | | | | |
| 22001 | | V | 74 | -74 | Peak | | | No Emissions |
| 22001 | | V | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 24370 | | V | -- | -- | Peak | | | No Emissions |
| 24370 | | V | -- | -- | Avg | | | Detected |
| | | | | | | | | |

**FCC 15.247**
Intel Corporation Date: 3/16/05
Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter Lab: B
Model: WM3B2200BG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
**With Phycomp Antenna**
**Channel 6 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm
**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 4874 | 37.04 | H | 74 | -36.96 | Peak | 1.86 | 45 | |
| 4874 | 23.83 | H | 54 | -30.17 | Avg | 1.86 | 45 | |
| | | | | | | | | |
| 7311 | 40.5 | H | 74 | -33.5 | Peak | 1.68 | 315 | |
| 7311 | 28.42 | H | 54 | -25.58 | Avg | 1.68 | 315 | |
| | | | | | | | | |
| 9748 | 45.62 | H | -- | -- | Peak | 2.48 | 225 | Not in Restricted Band |
| 9748 | 31.86 | H | -- | -- | Avg | 2.48 | 225 | Not in Restricted Band |
| | | | | | | | | |
| 12185 | 46.3 | H | 74 | -27.7 | Peak | 1.68 | 180 | |
| 12185 | 33.8 | H | 54 | -20.2 | Avg | 1.68 | 180 | |
| | | | | | | | | |
| 14622 | 48.53 | H | -- | -- | Peak | 1.75 | 315 | Not in Restricted Band |
| 14622 | 36.08 | H | -- | -- | Avg | 1.75 | 315 | Not in Restricted Band |
| | | | | | | | | |
| 17059 | 48.17 | H | -- | -- | Peak | 1.75 | 225 | Not in Restricted Band |
| 17059 | 35.73 | H | -- | -- | Avg | 1.75 | 225 | Not in Restricted Band |
| | | | | | | | | |
| 19496 | | H | 74 | -74 | Peak | | | No Emissions |
| 19496 | | H | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 21933 | | H | -- | -- | Peak | | | No Emissions |
| 21933 | | H | -- | -- | Avg | | | Detected |
| | | | | | | | | |
| 22001 | | H | 74 | -74 | Peak | | | No Emissions |
| 22001 | | H | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 24370 | | H | -- | -- | Peak | | | No Emissions |
| 24370 | | H | -- | -- | Avg | | | Detected |
| | | | | | | | | |

**FCC 15.247**

Intel Corporation — Date: 3/16/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 11 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 4924 | 38.27 | V | 74 | -35.73 | Peak | 2.34 | 180 | |
| 4924 | 24.09 | V | 54 | -29.91 | Avg | 2.34 | 180 | |
| | | | | | | | | |
| 7386 | 37.88 | V | 74 | -36.12 | Peak | 2.35 | 225 | |
| 7386 | 26.28 | V | 54 | -27.72 | Avg | 2.35 | 225 | |
| | | | | | | | | |
| 9848 | 45.38 | V | -- | -- | Peak | 2.42 | 270 | Not in Restricted Band |
| 9848 | 32.61 | V | -- | -- | Avg | 2.42 | 270 | Not in Restricted Band |
| | | | | | | | | |
| 12310 | 43.81 | V | 74 | -30.19 | Peak | 1.69 | 180 | |
| 12310 | 32.42 | V | 54 | -21.58 | Avg | 1.69 | 180 | |
| | | | | | | | | |
| 14772 | 50.95 | V | -- | -- | Peak | 1.97 | 225 | Not in Restricted Band |
| 14772 | 36.63 | V | -- | -- | Avg | 1.97 | 225 | Not in Restricted Band |
| | | | | | | | | |
| 17234 | 48.7 | V | -- | -- | Peak | 1.63 | 225 | Not in Restricted Band |
| 17234 | 36.14 | V | -- | -- | Avg | 1.63 | 225 | Not in Restricted Band |
| | | | | | | | | |
| 19696 | | V | 74 | -74 | Peak | | | No Emissions |
| 19696 | | V | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 22158 | | V | 74 | -74 | Peak | | | No Emissions |
| 22158 | | V | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 24620 | | V | -- | -- | Peak | | | No Emissions |
| 24620 | | V | -- | -- | Avg | | | Detected |
| | | | | | | | | |

**FCC 15.247**

Intel Corporation — Date: 3/16/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 11 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 4924 | 37.01 | H | 74 | -36.99 | Peak | 2.35 | 315 | |
| 4924 | 24.17 | H | 54 | -29.83 | Avg | 2.35 | 315 | |
| | | | | | | | | |
| 7386 | 39.57 | H | 74 | -34.43 | Peak | 1.95 | 180 | |
| 7386 | 27.02 | H | 54 | -26.98 | Avg | 1.95 | 180 | |
| | | | | | | | | |
| 9848 | 45.26 | H | -- | -- | Peak | 2.56 | 45 | Not in Restricted Band |
| 9848 | 31.43 | H | -- | -- | Avg | 2.56 | 45 | Not in Restricted Band |
| | | | | | | | | |
| 12310 | 44.65 | H | 74 | -29.35 | Peak | 1.49 | 225 | |
| 12310 | 32.33 | H | 54 | -21.67 | Avg | 1.49 | 225 | |
| | | | | | | | | |
| 14772 | 51.14 | H | -- | -- | Peak | 1.81 | 135 | Not in Restricted Band |
| 14772 | 36.45 | H | -- | -- | Avg | 1.81 | 135 | Not in Restricted Band |
| | | | | | | | | |
| 17234 | 49.9 | H | -- | -- | Peak | 1.91 | 225 | Not in Restricted Band |
| 17234 | 35.98 | H | -- | -- | Avg | 1.91 | 225 | Not in Restricted Band |
| | | | | | | | | |
| 19696 | | H | 74 | -74 | Peak | | | No Emissions |
| 19696 | | H | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 22158 | | H | 74 | -74 | Peak | | | No Emissions |
| 22158 | | H | 54 | -54 | Avg | | | Detected |
| | | | | | | | | |
| 24620 | | H | -- | -- | Peak | | | No Emissions |
| 24620 | | H | -- | -- | Avg | | | Detected |
| | | | | | | | | |

**FCC 15.247**

Intel Corporation — Date: 3/17/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 1 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.61 dBm Avg. Power: 15.01 dBm

**Channel 6 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.44 dBm Avg. Power: 14.98 dBm

**Channel 11 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.53 dBm Avg. Power: 15.12 dBm

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 2312 | 51.11 | V | 74 | -22.89 | Peak | 2.36 | 90 | 103 MHz Below the Fundamental |
| 2312 | 45.72 | V | 54 | -8.28 | Avg | 2.36 | 90 | of Channel 1 |
| | | | | | | | | |
| 2512 | 46.13 | V | 74 | -27.87 | Peak | 2.36 | 225 | 103 MHz Above the Fundamental |
| 2512 | 35.73 | V | 54 | -18.27 | Avg | 2.36 | 225 | of Channel 1 |
| | | | | | | | | |
| 2312 | 55.09 | H | 74 | -18.91 | Peak | 1.09 | 135 | 103 MHz Below the Fundamental |
| 2312 | 49.84 | H | 54 | -4.16 | Avg | 1.09 | 135 | of Channel 1 |
| | | | | | | | | |
| 2512 | 47.66 | H | 74 | -26.34 | Peak | 1.21 | 135 | 103 MHz Above the Fundamental |
| 2512 | 39.5 | H | 54 | -14.5 | Avg | 1.21 | 135 | of Channel 1 |
| | | | | | | | | |
| 2336 | 49.11 | V | 74 | -24.89 | Peak | 2.32 | 135 | 103 MHz Below the Fundamental |
| 2336 | 43.19 | V | 54 | -10.81 | Avg | 2.32 | 135 | of Channel 6 |
| | | | | | | | | |
| 2538.7 | 46.31 | V | 74 | -27.69 | Peak | 2.32 | 225 | 103 MHz Above the Fundamental |
| 2538.7 | 37.9 | V | 54 | -16.1 | Avg | 2.32 | 225 | of Channel 6 |
| | | | | | | | | |
| 2336 | 53.73 | H | 74 | -20.27 | Peak | 1.06 | 135 | 103 MHz Below the Fundamental |
| 2336 | 47.65 | H | 54 | -6.35 | Avg | 1.06 | 135 | of Channel 6 |
| | | | | | | | | |
| 2538.7 | 48.04 | H | 74 | -25.96 | Peak | 1.96 | 180 | 103 MHz Above the Fundamental |
| 2538.7 | 40.84 | H | 54 | -13.16 | Avg | 1.96 | 180 | of Channel 6 |
| | | | | | | | | |
| 2360 | 48.17 | V | 74 | -25.83 | Peak | 1.18 | 225 | 103 MHz Below the Fundamental |
| 2360 | 41.13 | V | 54 | -12.87 | Avg | 1.18 | 225 | of Channel 11 |
| | | | | | | | | |
| 2565 | 43.45 | V | 74 | -30.55 | Peak | 2.78 | 135 | 103 MHz Above the Fundamental |
| 2565 | 32.49 | V | 54 | -21.51 | Avg | 2.78 | 135 | of Channel 11 |
| | | | | | | | | |
| 2360 | 47.3 | H | 74 | -26.7 | Peak | 1.91 | 225 | 103 MHz Below the Fundamental |
| 2360 | 40.93 | H | 54 | -13.07 | Avg | 1.91 | 225 | of Channel 11 |
| | | | | | | | | |
| 2564 | 45.76 | H | 74 | -28.24 | Peak | 2 | 180 | 103 MHz Above the Fundamental |
| 2564 | 34.42 | H | 54 | -19.58 | Peak | 2 | 180 | of Channel 11 |
| | | | | | | | | |

**FCC 15.247**

Intel Corporation — Date: 3/17/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 1 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.50 dBm Avg. Power: 9.93 dBm

**Channel 6 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

**Channel 11 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 2312 | 53.32 | V | 74 | -20.68 | Peak | 2.14 | 270 | 103 MHz Below the Fundamental |
| 2312 | 48.58 | V | 54 | -5.42 | Avg | 2.14 | 270 | of Channel 1 |
| | | | | | | | | |
| 2512 | 48.21 | V | 74 | -25.79 | Peak | 2.84 | 270 | 103 MHz Above the Fundamental |
| 2512 | 41.3 | V | 54 | -12.7 | Avg | 2.84 | 270 | of Channel 1 |
| | | | | | | | | |
| 2312 | 53.51 | H | 74 | -20.49 | Peak | 1.08 | 225 | 103 MHz Below the Fundamental |
| 2312 | 47.42 | H | 54 | -6.58 | Avg | 1.08 | 225 | of Channel 11 |
| | | | | | | | | |
| 2512 | 49.89 | H | 74 | -24.11 | Peak | 1.79 | 135 | 103 MHz Above the Fundamental |
| 2512 | 43.67 | H | 54 | -10.33 | Avg | 1.79 | 135 | of Channel 11 |
| | | | | | | | | |
| 2336 | 53.28 | V | 74 | -20.72 | Peak | 2.08 | 270 | 103 MHz Below the Fundamental |
| 2336 | 47.99 | V | 54 | -6.01 | Avg | 2.08 | 270 | of Channel 6 |
| | | | | | | | | |
| 2538.7 | 49.44 | V | 74 | -24.56 | Peak | 2.95 | 270 | 103 MHz Above the Fundamental |
| 2538.7 | 43.3 | V | 54 | -10.7 | Avg | 2.95 | 270 | of Channel 6 |
| | | | | | | | | |
| 2336 | 56.73 | H | 83.5 | -26.77 | Peak | 1.11 | 135 | 103 MHz Below the Fundamental |
| 2336 | 51.12 | H | 63.5 | -12.38 | Avg | 1.11 | 135 | of Channel 6 |
| | | | | | | | | |
| 2538.7 | 50.04 | H | 83.5 | -33.46 | Peak | 1.24 | 225 | 103 MHz Above the Fundamental |
| 2538.7 | 43.7 | H | 63.5 | -19.8 | Avg | 1.24 | 225 | of Channel 6 |
| | | | | | | | | |
| 2360 | 50.51 | V | 74 | -23.49 | Peak | 2.23 | 225 | 103 MHz Below the Fundamental |
| 2360 | 44.66 | V | 54 | -9.34 | Avg | 2.23 | 225 | of Channel 11 |
| | | | | | | | | |
| 2565 | 46.32 | V | 74 | -27.68 | Peak | 2.18 | 270 | 103 MHz Above the Fundamental |
| 2565 | 37.27 | V | 54 | -16.73 | Avg | 2.18 | 270 | of Channel 11 |
| | | | | | | | | |
| 2360 | 56.44 | H | 83.5 | -27.06 | Peak | 1.06 | 135 | 103 MHz Below the Fundamental |
| 2360 | 49.2 | H | 63.5 | -14.3 | Avg | 1.06 | 135 | of Channel 11 |
| | | | | | | | | |
| 2564 | 46.58 | H | 83.5 | -36.92 | Peak | 1.03 | 135 | 103 MHz Above the Fundamental |
| 2564 | 37.32 | H | 63.5 | -26.18 | Peak | 1.03 | 135 | of Channel 11 |
| | | | | | | | | |

**FCC 15.247**

Intel Corporation — Date: 3/16/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 1 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.61 dBm Avg. Power: 15.01 dBm

**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 3216 | 42.18 | V | 74 | -31.82 | Peak | 1.78 | 270 | Fundamental of LO for |
| 3216 | 38.19 | V | 54 | -15.81 | Avg | 1.78 | 270 | Channel 1 |
| | | | | | | | | |
| 6432 | 38.22 | V | -- | -- | Peak | 1.91 | 180 | 2nd Harmonic of LO for |
| 6432 | 24.81 | V | -- | -- | Avg | 1.91 | 180 | Channel 1 |
| | | | | | | | | |
| 9648 | 53.4 | V | -- | -- | Peak | 1.46 | 180 | 3rd Harmonic of LO = |
| 9648 | 48.33 | V | -- | -- | Avg | 1.46 | 180 | 4th Harmonic of Tx for Channel 1 |
| | | | | | | | | |
| 12864 | 45.38 | V | -- | -- | Peak | 1.54 | 225 | 4th Harmonic of LO for |
| 12864 | 32.25 | V | -- | -- | Avg | 1.54 | 225 | Channel 1 |
| | | | | | | | | |
| 3216 | 40.83 | H | 74 | -33.17 | Peak | 1.54 | 135 | Fundamental of LO for |
| 3216 | 35.65 | H | 54 | -18.35 | Avg | 1.54 | 135 | Channel 1 |
| | | | | | | | | |
| 6432 | 38.86 | H | -- | -- | Peak | 2.22 | 135 | 2nd Harmonic of LO for |
| 6432 | 24.79 | H | -- | -- | Avg | 2.22 | 135 | Channel 1 |
| | | | | | | | | |
| 9648 | 53.39 | H | -- | -- | Peak | 2.61 | 180 | 3rd Harmonic of LO = |
| 9648 | 48.33 | H | -- | -- | Avg | 2.61 | 180 | 4th Harmonic of Tx for Channel 1 |
| | | | | | | | | |
| 12864 | 45.17 | H | -- | -- | Peak | 1.94 | 225 | 4th Harmonic of LO for |
| 12864 | 32.06 | H | -- | -- | Avg | 1.94 | 225 | Channel 1 |
| | | | | | | | | |
| | | | | | | | | Only the Fundamental of the LO |
| | | | | | | | | is in the Restricted Band |
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**FCC 15.247**
Intel Corporation Date: 3/16/05
Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter Lab: B
Model: WM3B2200BG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
**With Phycomp Antenna**
**Channel 6 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.44 dBm Avg. Power: 14.98 dBm
**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 3249.33 | 40.51 | V | 74 | -33.49 | Peak | 1.78 | 270 | Fundamental of LO for |
| 3249.33 | 35.47 | V | 54 | -18.53 | Avg | 1.78 | 270 | Channel 6 |
| | | | | | | | | |
| 6498.67 | 38.56 | V | -- | -- | Peak | 2.73 | 225 | 2nd Harmonic of LO for |
| 6498.67 | 25.08 | V | -- | -- | Avg | 2.73 | 225 | Channel 6 |
| | | | | | | | | |
| 9748 | 55.76 | V | -- | -- | Peak | 2.86 | 225 | 3rd Harmonic of LO = |
| 9748 | 52.17 | V | -- | -- | Avg | 2.86 | 225 | 4th Harmonic of Tx for Channel 6 |
| | | | | | | | | |
| 12997.3 | 44.69 | V | -- | -- | Peak | 1.92 | 180 | 4th Harmonic of LO for |
| 12997.3 | 31.43 | V | -- | -- | Avg | 1.92 | 180 | Channel 6 |
| | | | | | | | | |
| 3249.33 | 40.04 | H | 74 | -33.96 | Peak | 2.38 | 135 | Fundamental of LO for |
| 3249.33 | 35.57 | H | 54 | -18.43 | Avg | 2.38 | 135 | Channel 6 |
| | | | | | | | | |
| 6498.67 | 39.01 | H | -- | -- | Peak | 1.44 | 180 | 2nd Harmonic of LO for |
| 6498.67 | 25.2 | H | -- | -- | Avg | 1.44 | 180 | Channel 6 |
| | | | | | | | | |
| 9748 | 54.82 | H | -- | -- | Peak | 2.96 | 180 | 3rd Harmonic of LO = |
| 9748 | 51.31 | H | -- | -- | Avg | 2.96 | 180 | 4th Harmonic of Tx for Channel 6 |
| | | | | | | | | |
| 12997.3 | 45.2 | H | -- | -- | Peak | 2.25 | 225 | 4th Harmonic of LO for |
| 12997.3 | 31.45 | H | -- | -- | Avg | 2.25 | 225 | of Channel 6 |
| | | | | | | | | |
| | | | | | | | | Only the Fundamental of the LO |
| | | | | | | | | is in the Restricted Band |
| | | | | | | | | |
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**FCC 15.247**

Intel Corporation — Date: 3/16/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 11 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.53 dBm Avg. Power: 15.12 dBm

**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 3282.67 | 38.61 | V | 74 | -35.39 | Peak | 2.43 | 225 | Fundamental of LO for |
| 3282.67 | 32.27 | V | 54 | -21.73 | Avg | 2.43 | 225 | Channel 11 |
| | | | | | | | | |
| 6565.33 | 38.61 | V | -- | -- | Peak | 2.61 | 180 | 2nd Harmonic of LO for |
| 6565.33 | 25.32 | V | -- | -- | Avg | 2.61 | 180 | Channel 11 |
| | | | | | | | | |
| 9848 | 54.48 | V | -- | -- | Peak | 2.36 | 225 | 3rd Harmonic of LO = |
| 9848 | 50.66 | V | -- | -- | Avg | 2.36 | 225 | 4th Harmonic of Tx for Channel 11 |
| | | | | | | | | |
| 13130.7 | 43.81 | V | -- | -- | Peak | 2.33 | 180 | 4th Harmonic of LO for |
| 13130.7 | 30.62 | V | -- | -- | Avg | 2.33 | 180 | of Channel 11 |
| | | | | | | | | |
| 3282.67 | 39.18 | H | 74 | -34.82 | Peak | 2.31 | 135 | Fundamental of LO for |
| 3282.67 | 32.86 | H | 54 | -21.14 | Avg | 2.31 | 135 | Channel 11 |
| | | | | | | | | |
| 6565.33 | 38.36 | H | -- | -- | Peak | 1.93 | 225 | 2nd Harmonic of LO for |
| 6565.33 | 25.16 | H | -- | -- | Avg | 1.93 | 225 | Channel 11 |
| | | | | | | | | |
| 9848 | 54.08 | H | -- | -- | Peak | 2.33 | 180 | 3rd Harmonic of LO = |
| 9848 | 50.36 | H | -- | -- | Avg | 2.33 | 180 | 4th Harmonic of Tx for Channel 11 |
| | | | | | | | | |
| 13130.7 | 43.67 | H | -- | -- | Peak | 2.64 | 135 | 4th Harmonic of LO for |
| 13130.7 | 30.32 | H | -- | -- | Avg | 2.64 | 135 | of Channel 11 |
| | | | | | | | | |
| | | | | | | | | Only the Fundamental of the LO |
| | | | | | | | | is in the Restricted Band |
| | | | | | | | | |
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**FCC 15.247**
Intel Corporation Date: 3/16/05
Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter Lab: B
Model: WM3B2200BG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
**With Phycomp Antenna**
**Channel 1 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.50 dBm Avg. Power: 9.93 dBm
**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 3216 | 40.88 | V | 74 | -33.12 | Peak | 3.25 | 225 | Fundamental of LO for |
| 3216 | 35.44 | V | 54 | -18.56 | Avg | 3.25 | 225 | Channel 1 |
| | | | | | | | | |
| 6432 | 38.22 | V | -- | -- | Peak | 1.94 | 225 | 2nd Harmonic of LO for |
| 6432 | 24.94 | V | -- | -- | Avg | 1.94 | 225 | Channel 1 |
| | | | | | | | | |
| 9648 | 46.86 | V | -- | -- | Peak | 2.1 | 135 | 3rd Harmonic of LO = |
| 9648 | 33.47 | V | -- | -- | Avg | 2.1 | 135 | 4th Harmonic of Tx for Channel 1 |
| | | | | | | | | |
| 12864 | 45.13 | V | -- | -- | Peak | 2.35 | 180 | 4th Harmonic of LO for |
| 12864 | 32.18 | V | -- | -- | Avg | 2.35 | 180 | Channel 1 |
| | | | | | | | | |
| 3216 | 42.07 | H | 74 | -31.93 | Peak | 2.04 | 180 | Fundamental of LO for |
| 3216 | 36.15 | H | 54 | -17.85 | Avg | 2.04 | 180 | Channel 1 |
| | | | | | | | | |
| 6432 | 38.24 | H | -- | -- | Peak | 1.72 | 225 | 2nd Harmonic of LO for |
| 6432 | 24.96 | H | -- | -- | Avg | 1.72 | 225 | Channel 1 |
| | | | | | | | | |
| 9648 | 47.02 | H | -- | -- | Peak | 1.62 | 180 | 3rd Harmonic of LO = |
| 9648 | 33.19 | H | -- | -- | Avg | 1.62 | 180 | 4th Harmonic of Tx for Channel 1 |
| | | | | | | | | |
| 12864 | 46.21 | H | -- | -- | Peak | 1.79 | 135 | 4th Harmonic of LO for |
| 12864 | 32.1 | H | -- | -- | Avg | 1.79 | 135 | Channel 1 |
| | | | | | | | | |
| | | | | | | | | Only the Fundamental of the LO |
| | | | | | | | | is in the Restricted Band |
| | | | | | | | | |
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**FCC 15.247**
Intel Corporation Date: 3/16/05
Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter Lab: B
Model: WM3B2200BG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
**With Phycomp Antenna**
**Channel 6 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm
**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 3249.33 | 41.02 | V | 74 | -32.98 | Peak | 3.26 | 45 | Fundamental of LO for |
| 3249.33 | 35.64 | V | 54 | -18.36 | Avg | 3.26 | 45 | Channel 6 |
| | | | | | | | | |
| 6498.67 | 38.78 | V | -- | -- | Peak | 2.03 | 180 | 2nd Harmonic of LO for |
| 6498.67 | 25.19 | V | -- | -- | Avg | 2.03 | 180 | Channel 6 |
| | | | | | | | | |
| 9748 | 46.42 | V | -- | -- | Peak | 1.84 | 135 | 3rd Harmonic of LO = |
| 9748 | 32.62 | V | -- | -- | Avg | 1.84 | 135 | 4th Harmonic of Tx for Channel 6 |
| | | | | | | | | |
| 12997.3 | 45.52 | V | -- | -- | Peak | 2.25 | 180 | 4th Harmonic of LO for |
| 12997.3 | 31.85 | V | -- | -- | Avg | 2.25 | 180 | Channel 6 |
| | | | | | | | | |
| 3249.33 | 40.88 | H | 74 | -33.12 | Peak | 1.24 | 135 | Fundamental of LO for |
| 3249.33 | 35.82 | H | 54 | -18.18 | Avg | 1.24 | 135 | Channel 6 |
| | | | | | | | | |
| 6498.67 | 38.35 | H | -- | -- | Peak | 2.05 | 135 | 2nd Harmonic of LO for |
| 6498.67 | 25.09 | H | -- | -- | Avg | 2.05 | 135 | Channel 6 |
| | | | | | | | | |
| 9748 | 45.62 | H | -- | -- | Peak | 2.48 | 225 | 3rd Harmonic of LO = |
| 9748 | 31.86 | H | -- | -- | Avg | 2.48 | 225 | 4th Harmonic of Tx for Channel 6 |
| | | | | | | | | |
| 12997.3 | 45.3 | H | -- | -- | Peak | 2.3 | 180 | 4th Harmonic of LO for |
| 12997.3 | 31.63 | H | -- | -- | Avg | 2.3 | 180 | of Channel 6 |
| | | | | | | | | |
| | | | | | | | | Only the Fundamental of the LO |
| | | | | | | | | is in the Restricted Band |
| | | | | | | | | |
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**FCC 15.247**
Intel Corporation Date: 3/16/05
Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter Lab: B
Model: WM3B2200BG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
**With Phycomp Antenna**
**Channel 11 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm
**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 3282.67 | 40.53 | V | 74 | -33.47 | Peak | 1 | 180 | Fundamental of LO for |
| 3282.67 | 35.61 | V | 54 | -18.39 | Avg | 1 | 180 | Channel 11 |
| | | | | | | | | |
| 6565.33 | 39.06 | V | -- | -- | Peak | 1.92 | 225 | 2nd Harmonic of LO for |
| 6565.33 | 25.31 | V | -- | -- | Avg | 1.92 | 225 | Channel 11 |
| | | | | | | | | |
| 9848 | 45.38 | V | -- | -- | Peak | 2.42 | 270 | 3rd Harmonic of LO = |
| 9848 | 32.61 | V | -- | -- | Avg | 2.42 | 270 | 4th Harmonic of Tx for Channel 11 |
| | | | | | | | | |
| 13130.7 | 44.38 | V | -- | -- | Peak | 2.26 | 225 | 4th Harmonic of LO for |
| 13130.7 | 30.65 | V | -- | -- | Avg | 2.26 | 225 | of Channel 11 |
| | | | | | | | | |
| 3282.67 | 40.58 | H | 74 | -33.42 | Peak | 1.43 | 135 | Fundamental of LO for |
| 3282.67 | 34.64 | H | 54 | -19.36 | Avg | 1.43 | 135 | Channel 11 |
| | | | | | | | | |
| 6565.33 | 38.69 | H | -- | -- | Peak | 1.77 | 225 | 2nd Harmonic of LO for |
| 6565.33 | 25.14 | H | -- | -- | Avg | 1.77 | 225 | Channel 11 |
| | | | | | | | | |
| 9848 | 45.26 | H | -- | -- | Peak | 2.56 | 45 | 3rd Harmonic of LO = |
| 9848 | 31.43 | H | -- | -- | Avg | 2.56 | 45 | 4th Harmonic of Tx for Channel 11 |
| | | | | | | | | |
| 13130.7 | 44.4 | H | -- | -- | Peak | 2.44 | 180 | 4th Harmonic of LO for |
| 13130.7 | 30.74 | H | -- | -- | Avg | 2.44 | 180 | of Channel 11 |
| | | | | | | | | |
| | | | | | | | | Only the Fundamental of the LO |
| | | | | | | | | is in the Restricted Band |
| | | | | | | | | |
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**RSS-210**

Intel Corporation — Date: 3/16/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 6 - 802.11 b Mode**

**Receive Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 3249.33 | 39.26 | V | 80 | -40.74 | Peak | 1.07 | 135 | Fundamental of LO for |
| 3249.33 | 33.57 | V | 60 | -26.43 | Avg | 1.07 | 135 | Channel 6 |
| | | | | | | | | |
| 6498.67 | 39.07 | V | 80 | -40.93 | Peak | 1.91 | 225 | 2nd Harmonic of LO for |
| 6498.67 | 25.34 | V | 60 | -34.66 | Avg | 1.91 | 225 | Channel 6 |
| | | | | | | | | |
| 9748 | 45.11 | V | 80 | -34.89 | Peak | 2.42 | 180 | 3rd Harmonic of LO for |
| 9748 | 31.85 | V | 60 | -28.15 | Avg | 2.42 | 180 | Channel 6 |
| | | | | | | | | |
| 3249.33 | 38.58 | H | 80 | -41.42 | Peak | 1.16 | 180 | Fundamental of LO for |
| 3249.33 | 32.43 | H | 60 | -27.57 | Avg | 1.16 | 180 | Channel 6 |
| | | | | | | | | |
| 6498.67 | 39.24 | H | 80 | -40.76 | Peak | 1.82 | 135 | 2nd Harmonic of LO for |
| 6498.67 | 25.04 | H | 60 | -34.96 | Avg | 1.82 | 135 | Channel 6 |
| | | | | | | | | |
| 9748 | 44.44 | H | 80 | -35.56 | Peak | 1.86 | 180 | 3rd Harmonic of LO for |
| 9748 | 31.73 | H | 60 | -28.27 | Avg | 1.86 | 180 | Channel 6 |
| | | | | | | | | |
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**RSS-210**
Intel Corporation Date: 3/16/05
Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter Lab: B
Model: WM3B2200BG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
**With Phycomp Antenna**
**Channel 6 - 802.11 g Mode**
**Receive Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 3249.33 | 39.32 | V | 80 | -40.68 | Peak | 1.39 | 135 | Fundamental of LO for |
| 3249.33 | 33.87 | V | 60 | -26.13 | Avg | 1.39 | 135 | Channel 6 |
| | | | | | | | | |
| 6498.67 | 38.7 | V | 80 | -41.3 | Peak | 1.91 | 180 | 2nd Harmonic of LO for |
| 6498.67 | 25.14 | V | 60 | -34.86 | Avg | 1.91 | 180 | Channel 6 |
| | | | | | | | | |
| 9748 | 45.2 | V | 80 | -34.8 | Peak | 1.71 | 225 | 3rd Harmonic of LO for |
| 9748 | 31.86 | V | 60 | -28.14 | Avg | 1.71 | 225 | Channel 6 |
| | | | | | | | | |
| 3249.33 | 38.07 | H | 80 | -41.93 | Peak | 2.74 | 180 | Fundamental of LO for |
| 3249.33 | 31.77 | H | 60 | -28.23 | Avg | 2.74 | 180 | Channel 6 |
| | | | | | | | | |
| 6498.67 | 39.01 | H | 80 | -40.99 | Peak | 2.07 | 225 | 2nd Harmonic of LO for |
| 6498.67 | 25.11 | H | 60 | -34.89 | Avg | 2.07 | 225 | Channel 6 |
| | | | | | | | | |
| 9748 | 44.73 | H | 80 | -35.27 | Peak | 1.62 | 180 | 3rd Harmonic of LO for |
| 9748 | 31.6 | H | 60 | -28.4 | Avg | 1.62 | 180 | Channel 6 |
| | | | | | | | | |
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COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics Page : 1/1
Customer : Intel Date : 3/23/2005
Manufacturer : Intel Time : 17:41:22
Eut name : Intel Mini PCI Type 3A 802.11bg Wir Lab : A
Model : WM3B2200BG Test Distance : 3.0
Serial # : N/A
Specification : FCC B
Distance correction factor (20 * log(test/spec) : 0.00
Test Mode : Scan Type: Qualification w/ Phycomp Antenna
Scan Range: 10 kHz to 1000 MHz (Vertical & Horizontal)
Mode of Operation (worst case): Transmit
Test Engineer: Benigno Chavez

| Pol | Freq | Rdng | Cable loss | Ant factor | Amp gain | Cor'd rdg = R | Limit = L | Delta R-L |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dB | dB | dBuV | dBuV/m | dB |
| 1H | 138.422 | 48.20 | 2.88 | 11.95 | 33.04 | 29.99 | 43.50 | -13.51 |
| 2H | 141.343 | 49.30 | 2.94 | 11.89 | 33.03 | 31.09 | 43.50 | -12.41 |
| 3H | 144.056 | 51.80 | 2.99 | 11.86 | 33.02 | 33.63 | 43.50 | -9.87 |
| 4V | 144.275 | 51.50 | 2.99 | 11.86 | 33.02 | 33.33 | 43.50 | -10.17 |
| 5H | 146.776 | 51.70 | 3.04 | 11.83 | 33.01 | 33.56 | 43.50 | -9.94 |
| 6V | 151.302 | 51.60 | 3.09 | 12.00 | 33.00 | 33.69 | 43.50 | -9.81 |
| 7H | 152.737 | 52.90 | 3.08 | 12.22 | 33.00 | 35.20 | 43.50 | -8.30 |
| 8H | 156.048 | 51.60 | 3.05 | 12.72 | 33.00 | 34.37 | 43.50 | -9.13 |
| 9H | 178.988 | 44.20 | 2.92 | 14.76 | 33.00 | 28.88 | 43.50 | -14.62 |
| 10H | 208.766 | 46.10 | 3.04 | 15.85 | 33.00 | 31.99 | 43.50 | -11.51 |
| 11H | 219.950 | 46.50 | 3.08 | 16.04 | 33.00 | 32.62 | 46.00 | -13.38 |
| 12H | 249.258 | 45.90 | 3.29 | 16.49 | 33.00 | 32.68 | 46.00 | -13.32 |
| 13V | 257.487 | 51.90 | 3.36 | 16.94 | 32.97 | 39.23 | 46.00 | -6.77 |
| 14V | 295.638 | 40.70 | 3.58 | 18.98 | 32.98 | 30.28 | 46.00 | -15.72 |
| 15V | 314.711 | 48.70 | 3.66 | 12.87 | 32.94 | 32.29 | 46.00 | -13.71 |
| 16H | 314.722 | 53.60 | 3.66 | 12.87 | 32.94 | 37.19 | 46.00 | -8.81 |
| 17H | 338.504 | 38.50 | 3.76 | 13.12 | 32.84 | 22.53 | 46.00 | -23.47 |
| 18V | 365.797 | 52.60 | 3.97 | 13.39 | 32.80 | 37.15 | 46.00 | -8.85 |
| 19H | 365.804 | 46.40 | 3.97 | 13.39 | 32.80 | 30.95 | 46.00 | -15.05 |
| 20V | 406.464 | 43.00 | 4.37 | 13.87 | 32.80 | 28.43 | 46.00 | -17.57 |

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**FCC Class B**
Intel Corporation Date: 3/17/05
Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter Lab: B
Model: WM3B2200BG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
**With Phycomp Antenna**
**Digital Portion - 1 GHz to 25 GHz**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 1150 | 39.89 | V | 74 | -34.11 | Peak | 2.65 | 225 | |
| 1150 | 22.79 | V | 54 | -31.21 | Avg | 2.65 | 225 | |
| | | | | | | | | |
| 1527.7 | 33.4 | V | 74 | -40.6 | Peak | 1.92 | 270 | |
| 1527.7 | 20.6 | V | 54 | -33.4 | Avg | 1.92 | 270 | |
| | | | | | | | | |
| 2196.8 | 44.22 | V | 74 | -29.78 | Peak | 2.82 | 270 | |
| 2196.8 | 33.4 | V | 54 | -20.6 | Avg | 2.82 | 270 | |
| | | | | | | | | |
| 1150 | 43.43 | H | 74 | -30.57 | Peak | 2.91 | 225 | |
| 1150 | 24.61 | H | 54 | -29.39 | Avg | 2.91 | 225 | |
| | | | | | | | | |
| 1527.7 | 33.35 | H | 74 | -40.65 | Peak | 1.74 | 135 | |
| 1527.7 | 20.63 | H | 54 | -33.37 | Avg | 1.74 | 135 | |
| | | | | | | | | |
| 2196.8 | 42.39 | H | 74 | -31.61 | Peak | 1.74 | 180 | |
| 2196.8 | 32.36 | H | 54 | -21.64 | Avg | 1.74 | 180 | |
| | | | | | | | | |
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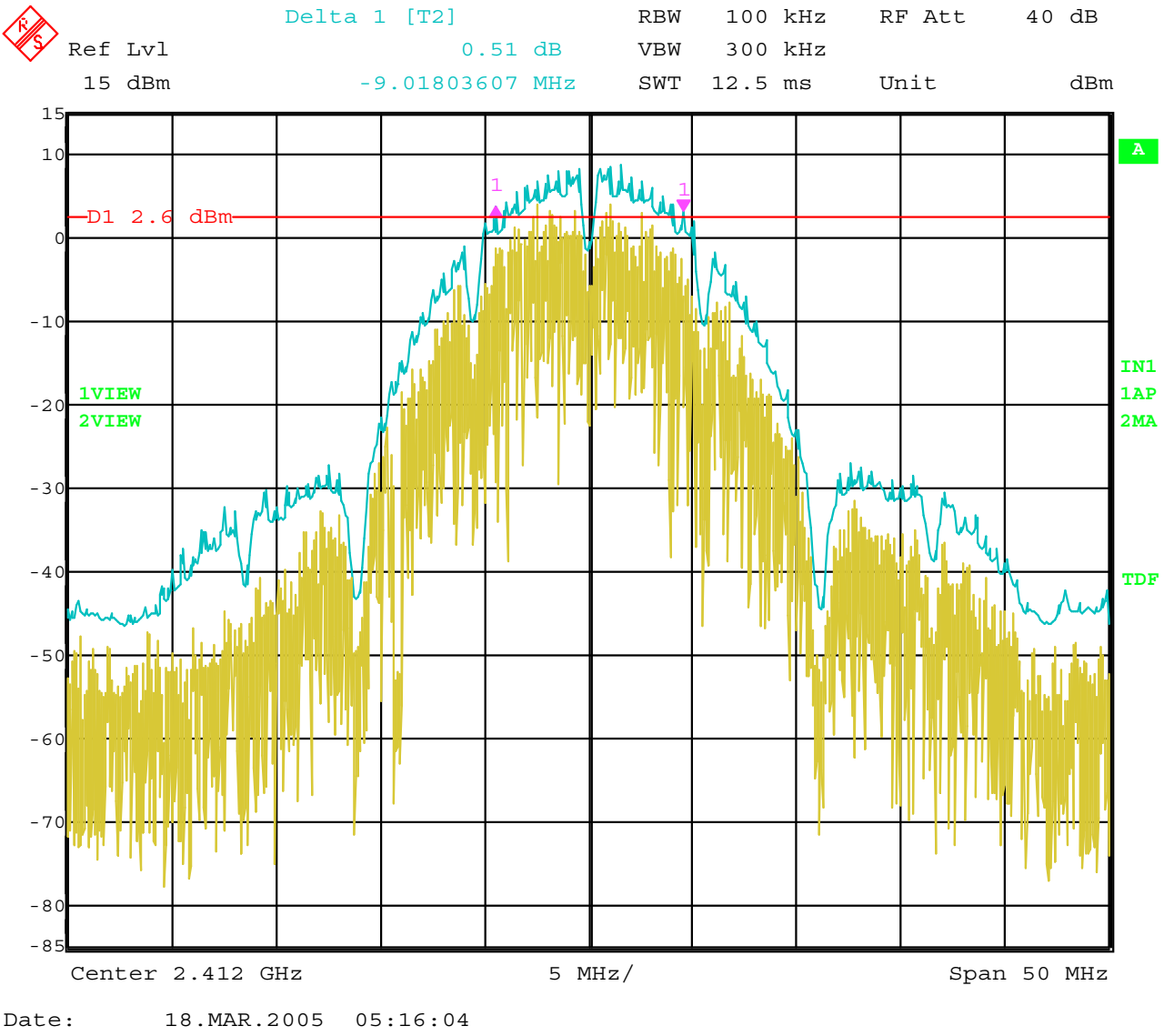
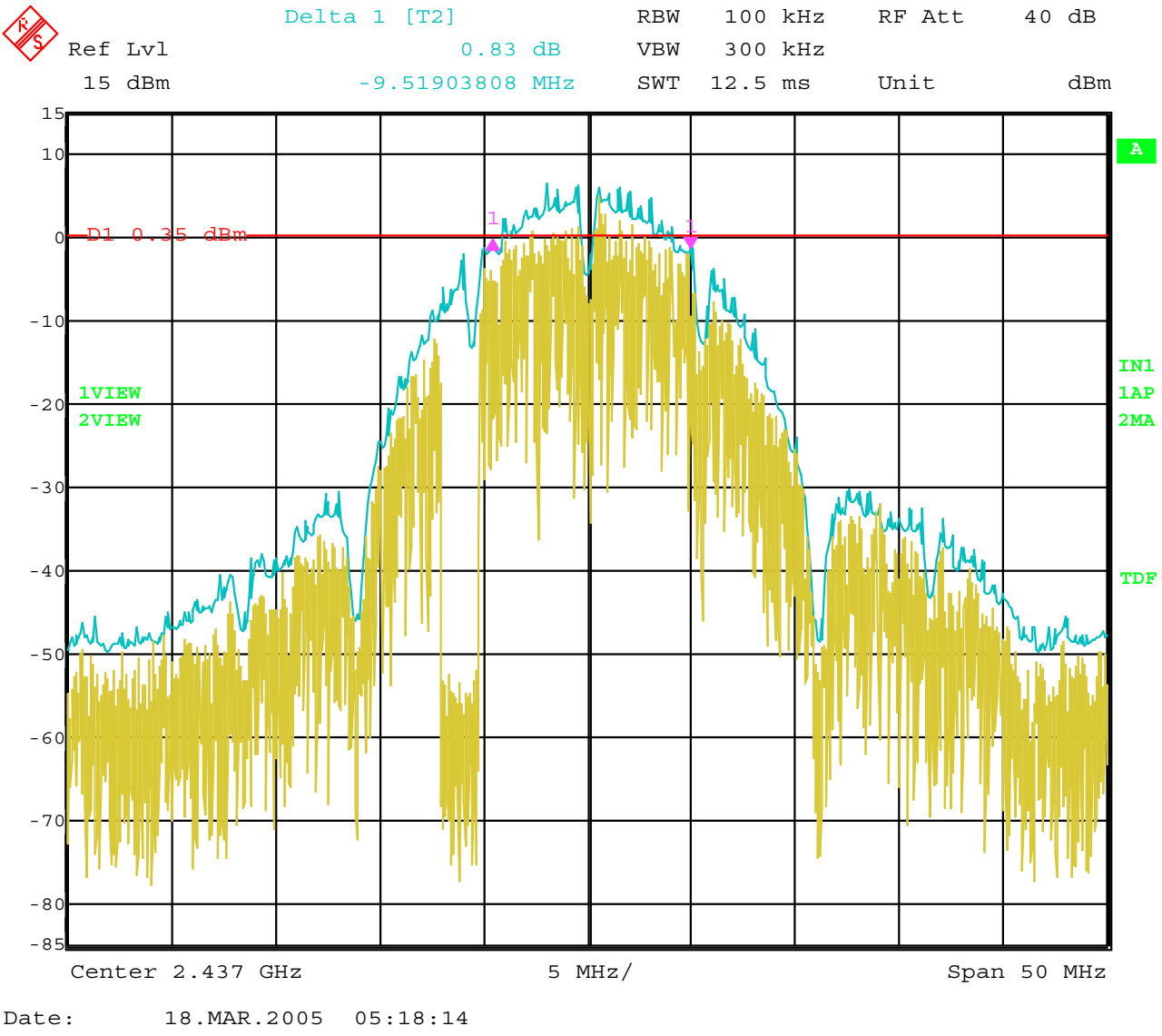
# *-6 dB BANDWIDTH*

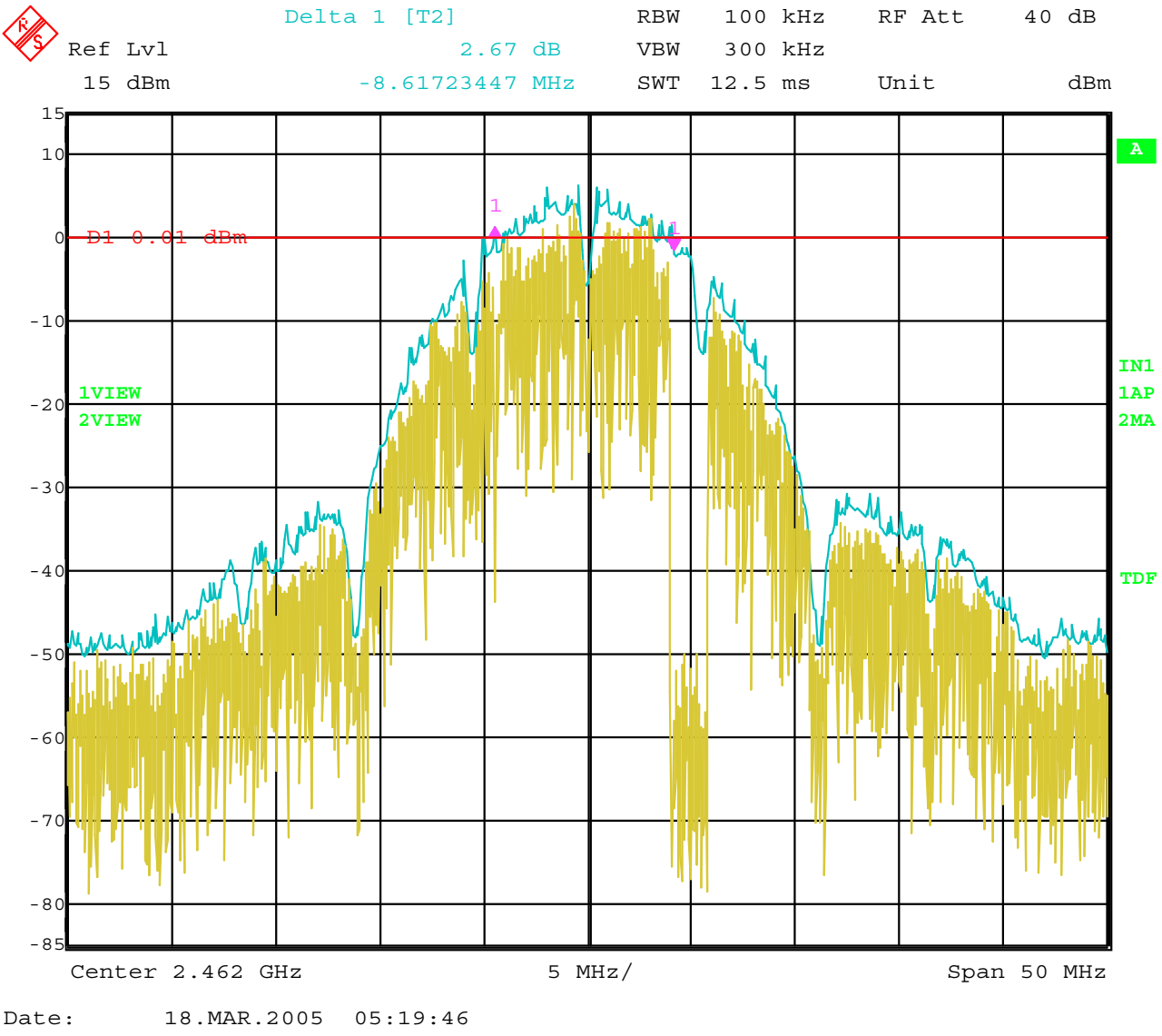
# *DATA SHEETS*



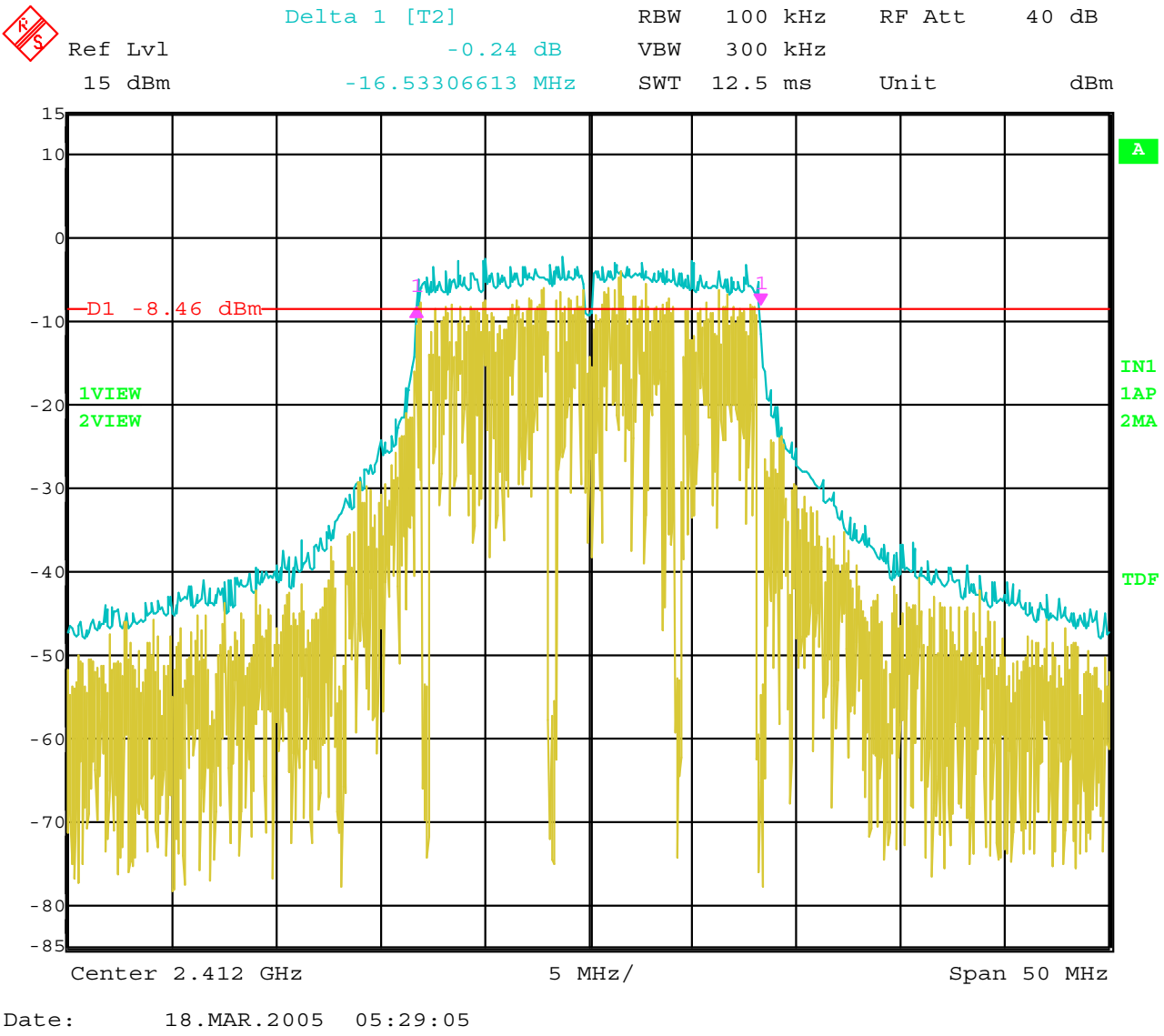

Bandwidth 6 dB – Channel 1 – 802.11 b Mode – Phycomp Antenna



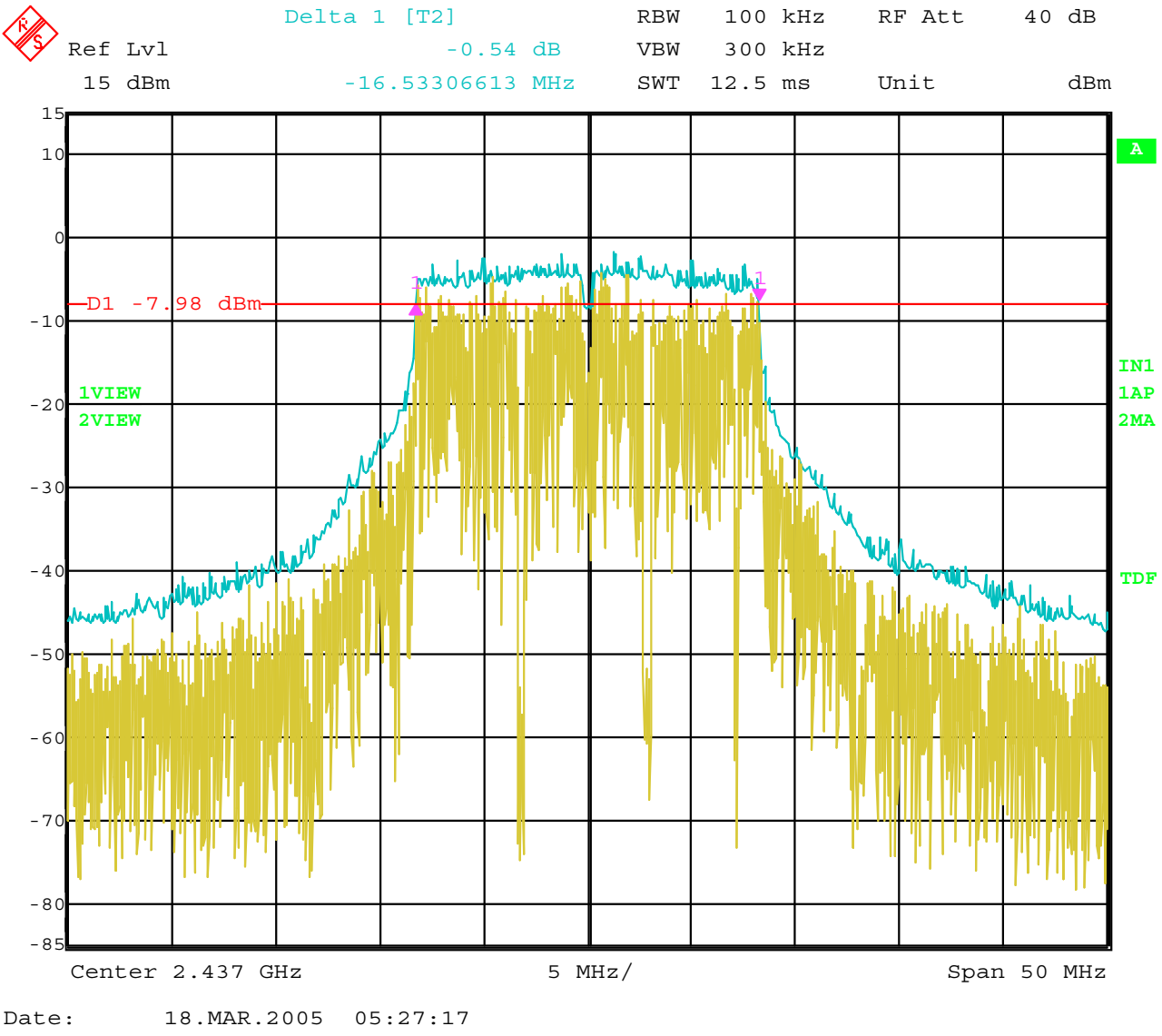

Bandwidth 6 dB – Channel 6 – 802.11 b Mode – Phycomp Antenna



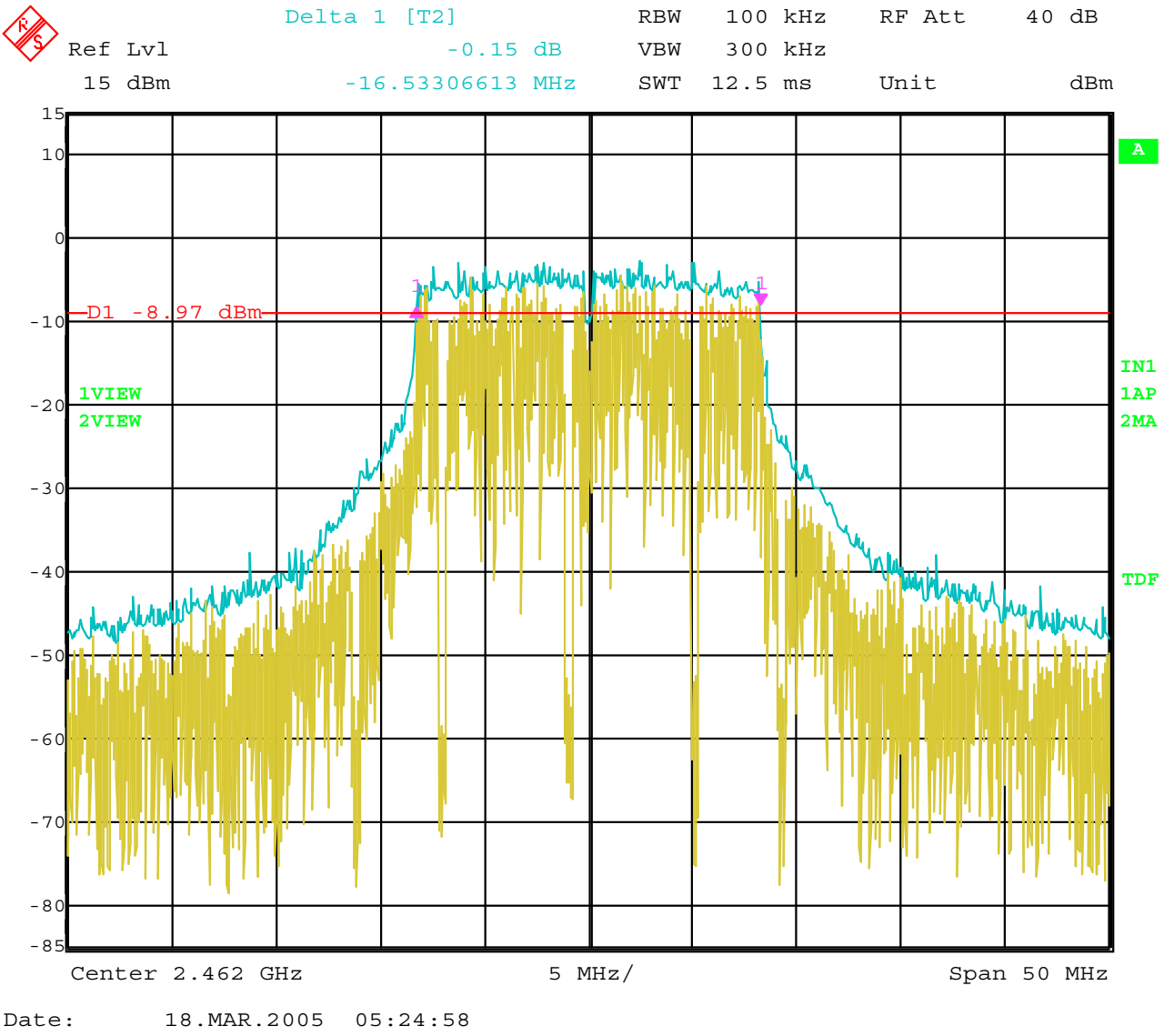

Bandwidth 6 dB – Channel 11 – 802.11 b Mode – Phycomp Antenna




Bandwidth 6 dB – Channel 1 – 802.11 g Mode – Phycomp Antenna



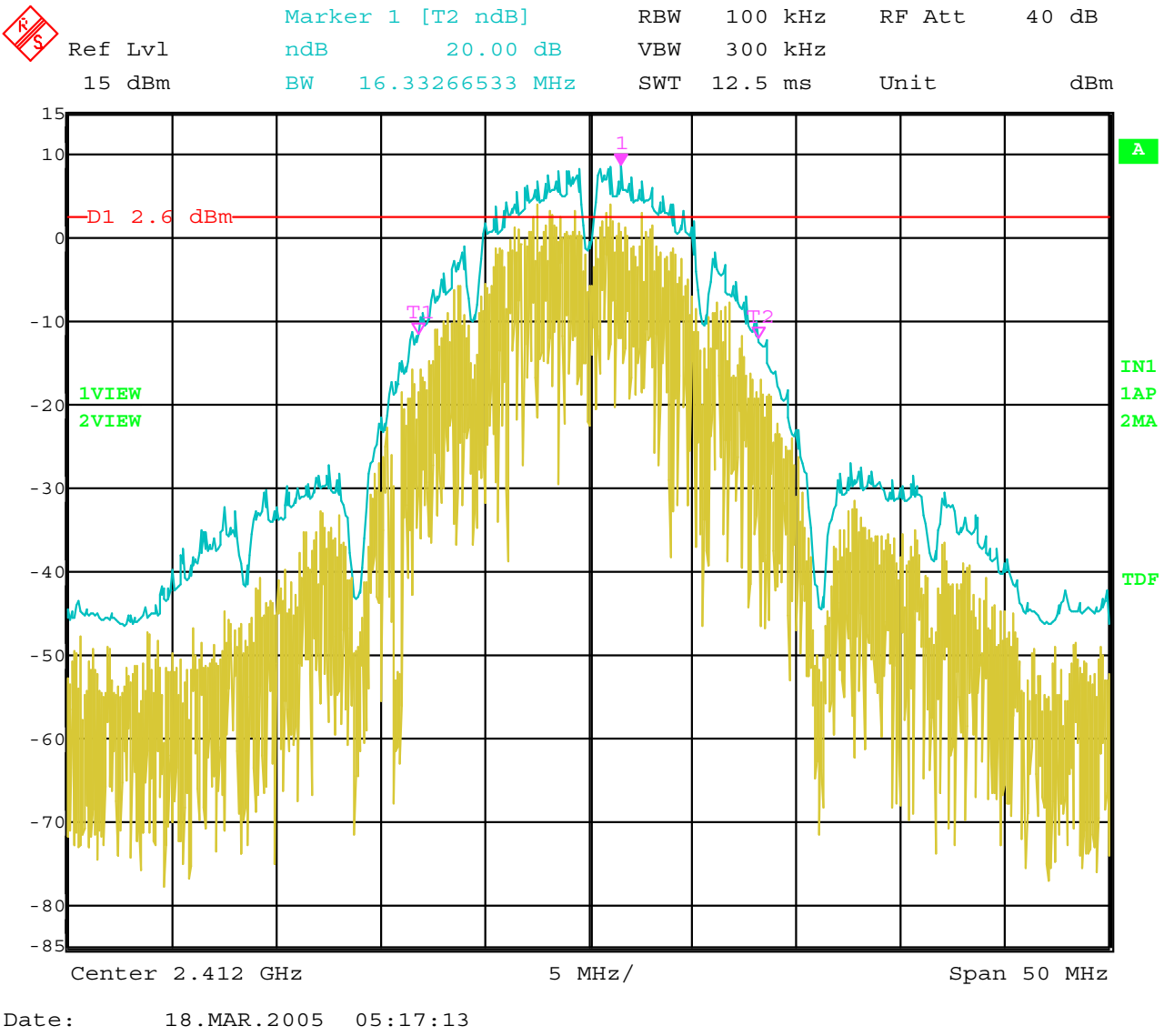

Bandwidth 6 dB – Channel 6 – 802.11 g Mode – Phycomp Antenna



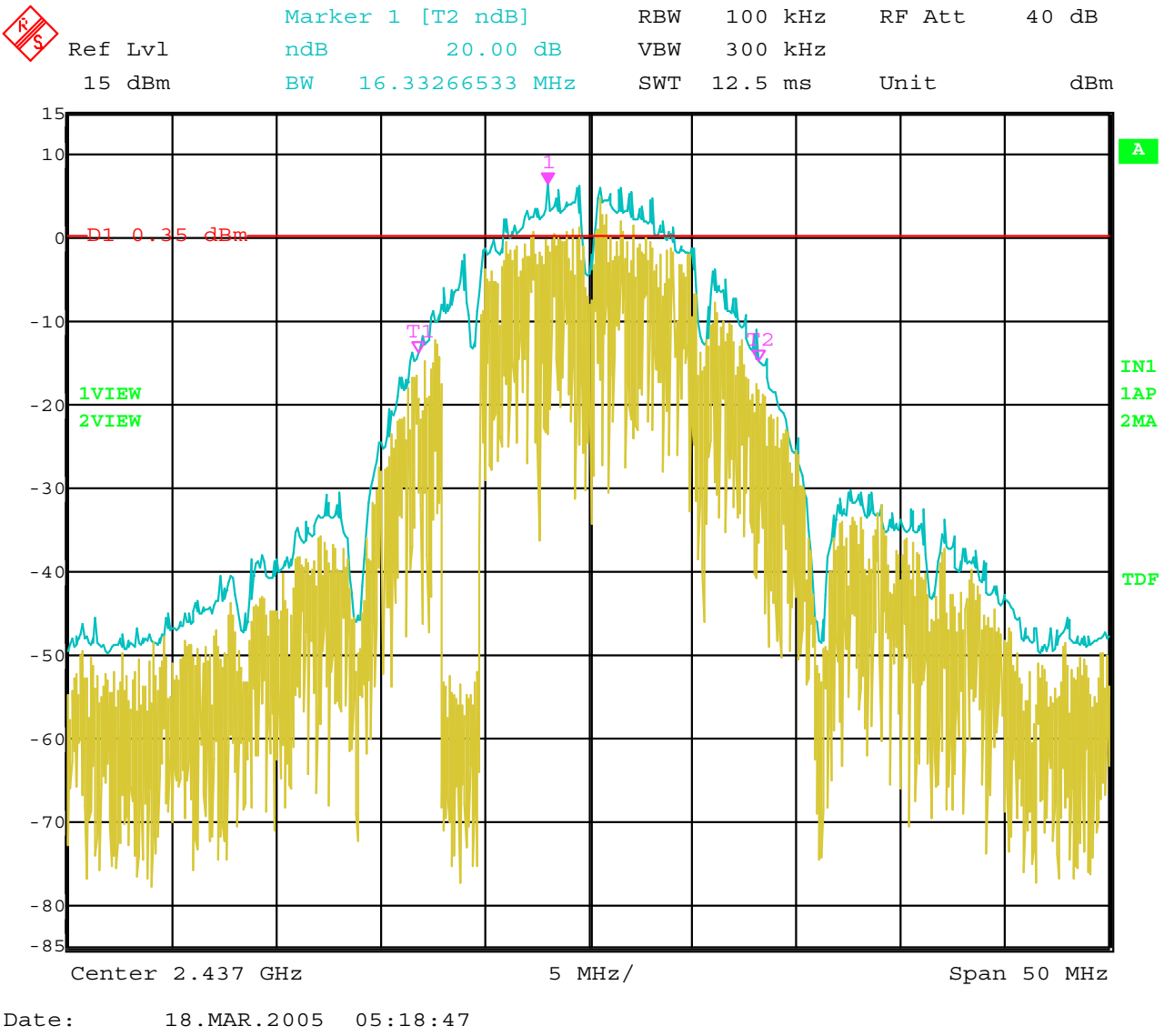

Bandwidth 6 dB – Channel 11 – 802.11 g Mode – Phycomp Antenna

# *-20 dB BANDWIDTH*

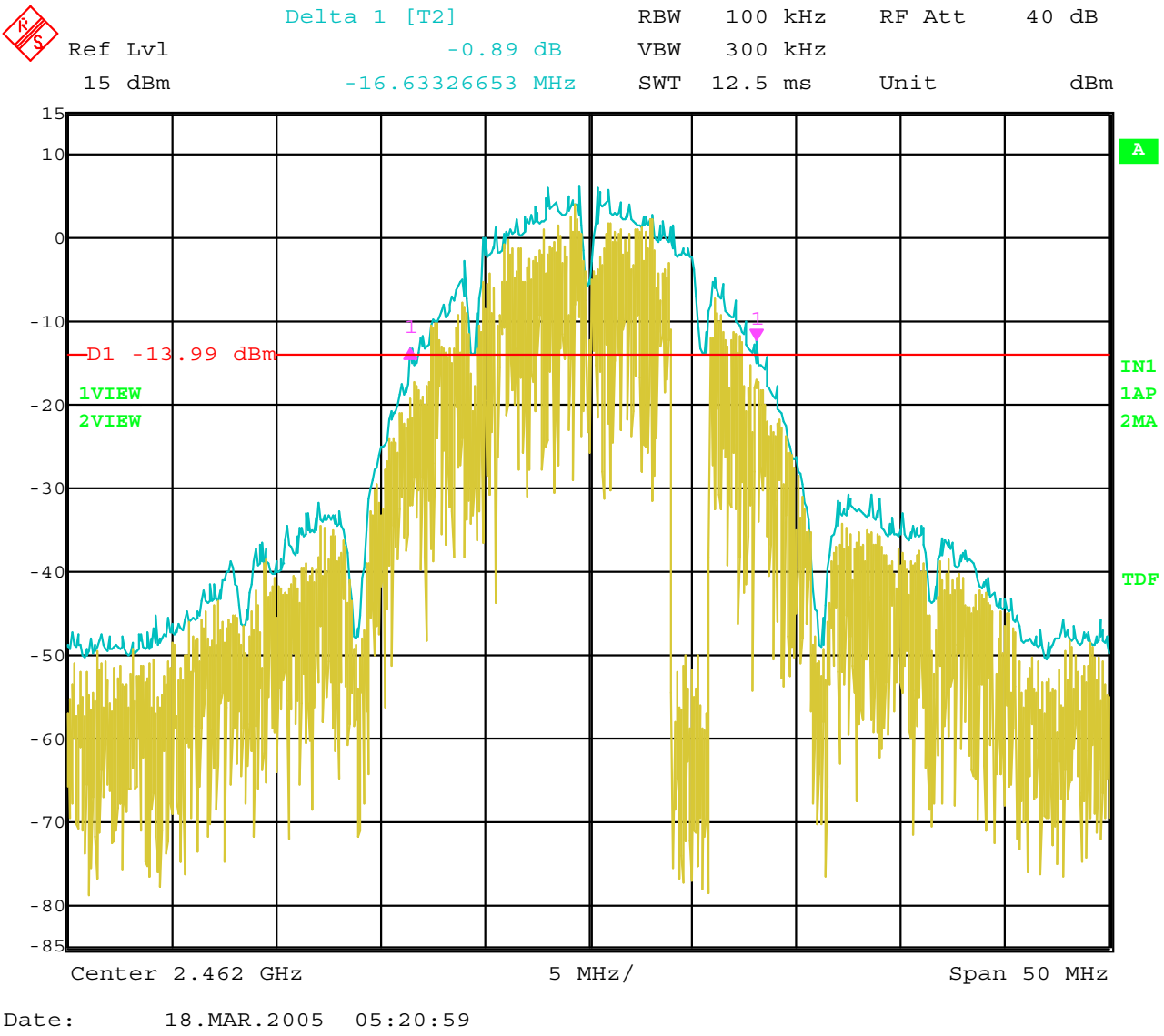
# *DATA SHEETS*



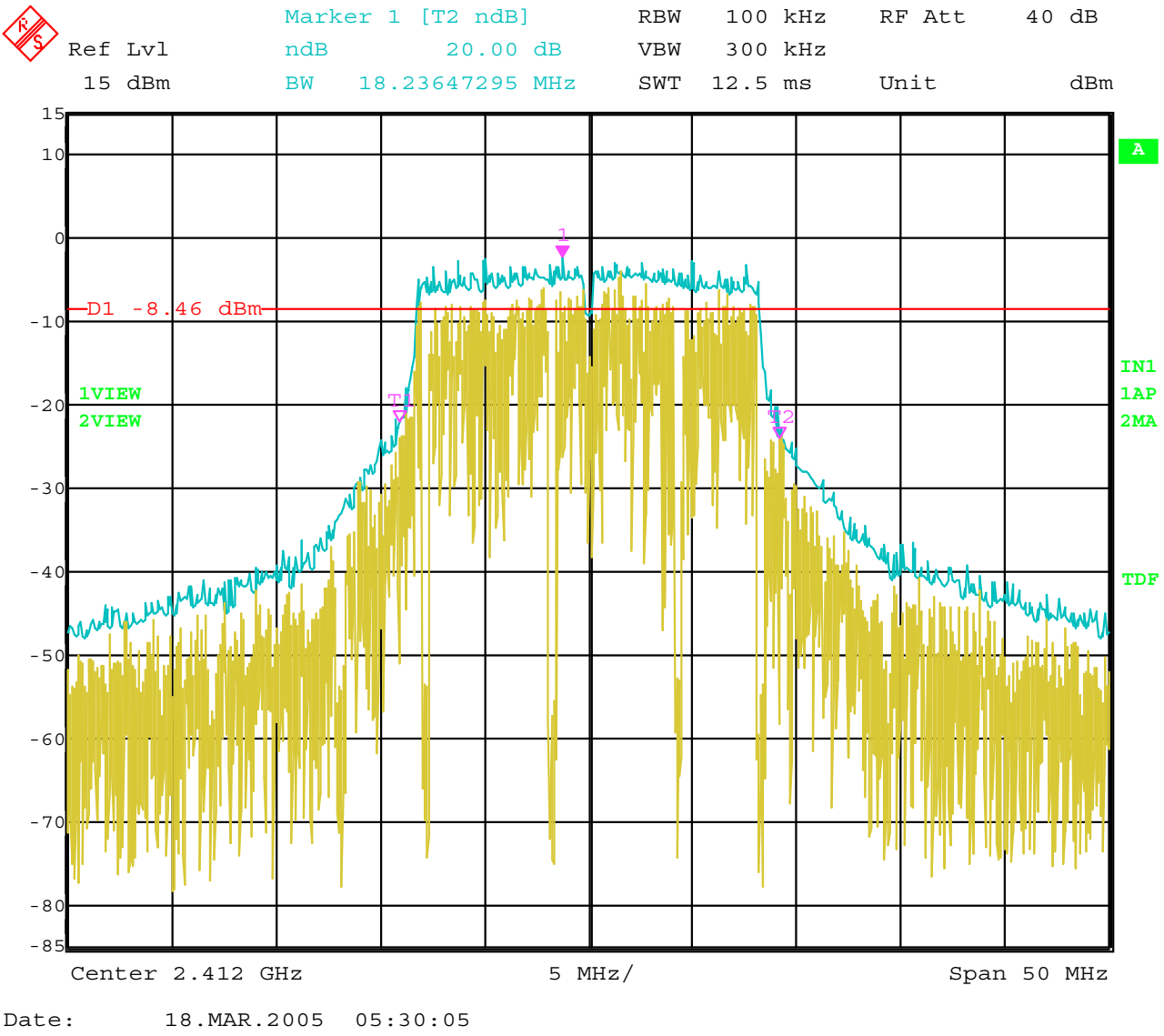

Bandwidth 20 dB – Channel 1 – 802.11 b Mode – Phycomp Antenna



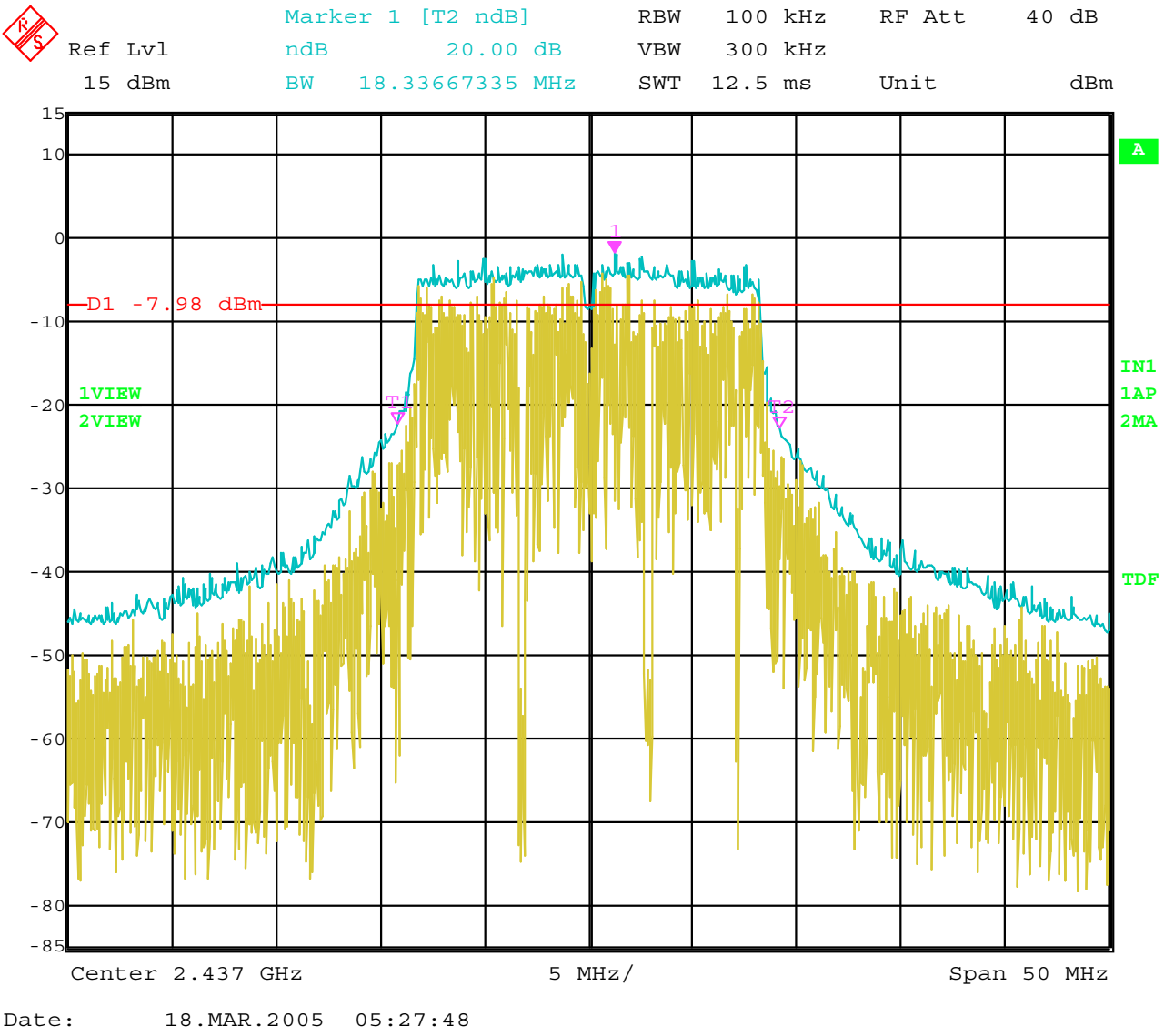

Bandwidth 20 dB – Channel 6 – 802.11 b Mode – Phycomp Antenna



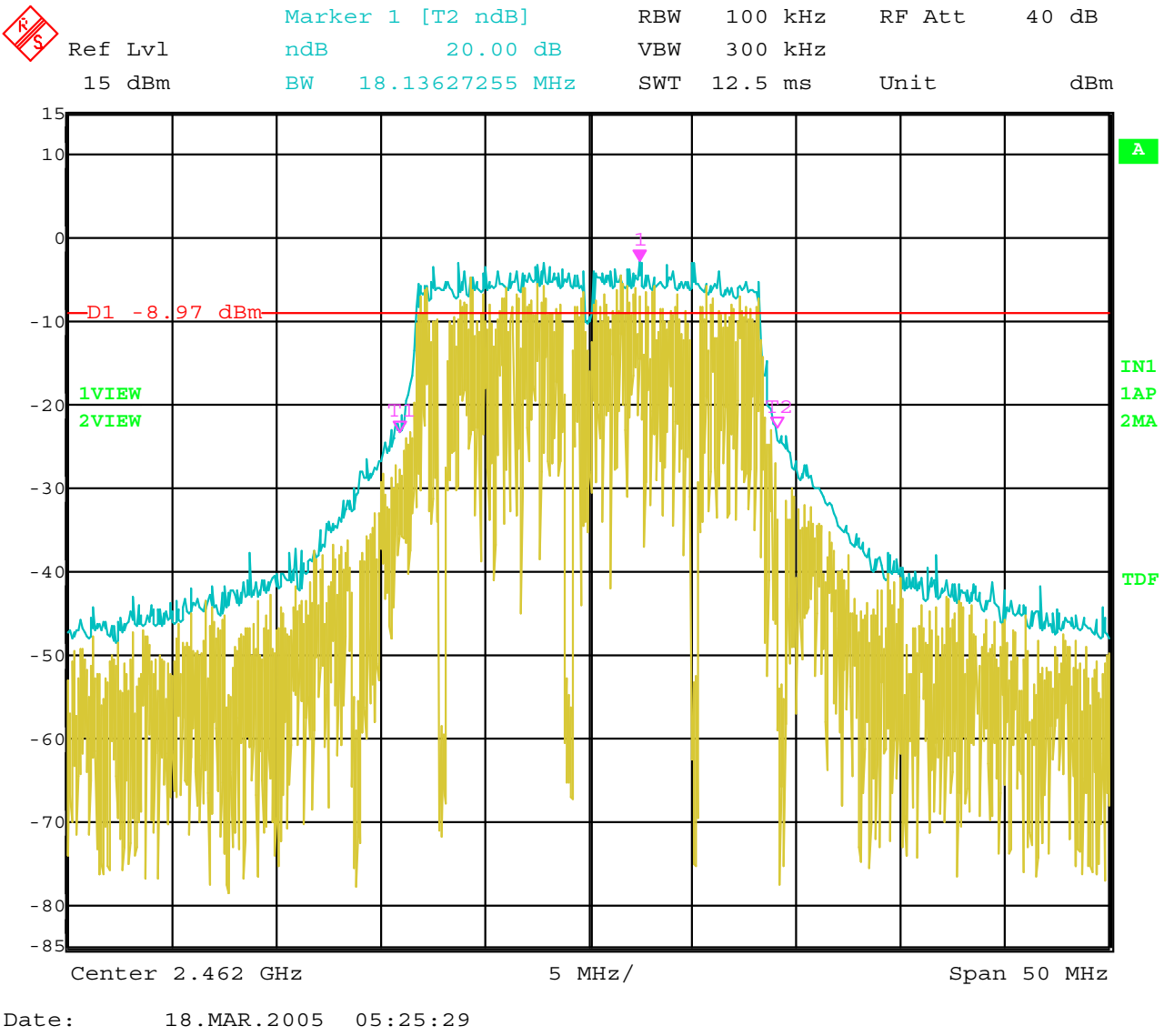

Bandwidth 20 dB – Channel 11 – 802.11 b Mode – Phycomp Antenna




Bandwidth 20 dB – Channel 1 – 802.11 g Mode – Phycomp Antenna




Bandwidth 20 dB – Channel 6 – 802.11 g Mode – Phycomp Antenna




Bandwidth 20 dB – Channel 11 – 802.11 g Mode – Phycomp Antenna

# *PEAK POWER OUTPUT*

# *DATA SHEETS*

# PEAK OUTPUT POWER

Intel Corporation

Intel Mini PCI Type 3B 802.11 BG Wireless LAN Adapter

MODEL: WM3B2200BG

For use in the Dell Agency Series #: PP17L

With Phycomp Antenna

802.11 b Mode (Worst Case Rate is 1 Mbps)

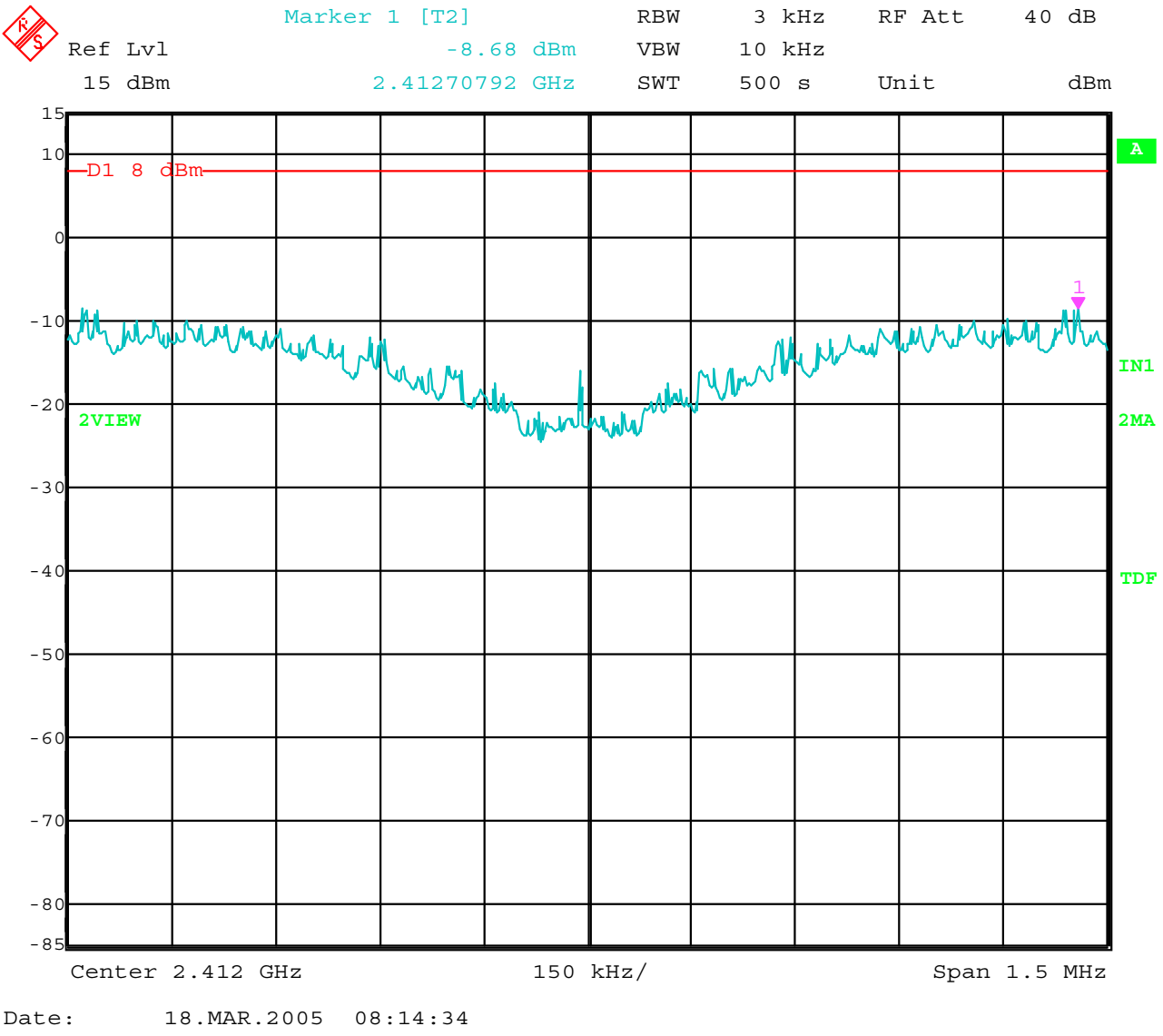
| CHANNEL | GAIN | PEAK POWER OUTPUT (dBm) |
|---|---|---|
| 1 (2412 MHz) | 30.5 | 17.61 |
| 6 (2437 MHz) | 30.5 | 17.44 |
| 11 (2462 MHz) | 30.5 | 17.53 |

802.11 g Mode (Worst Case Rate is 6 Mbps)

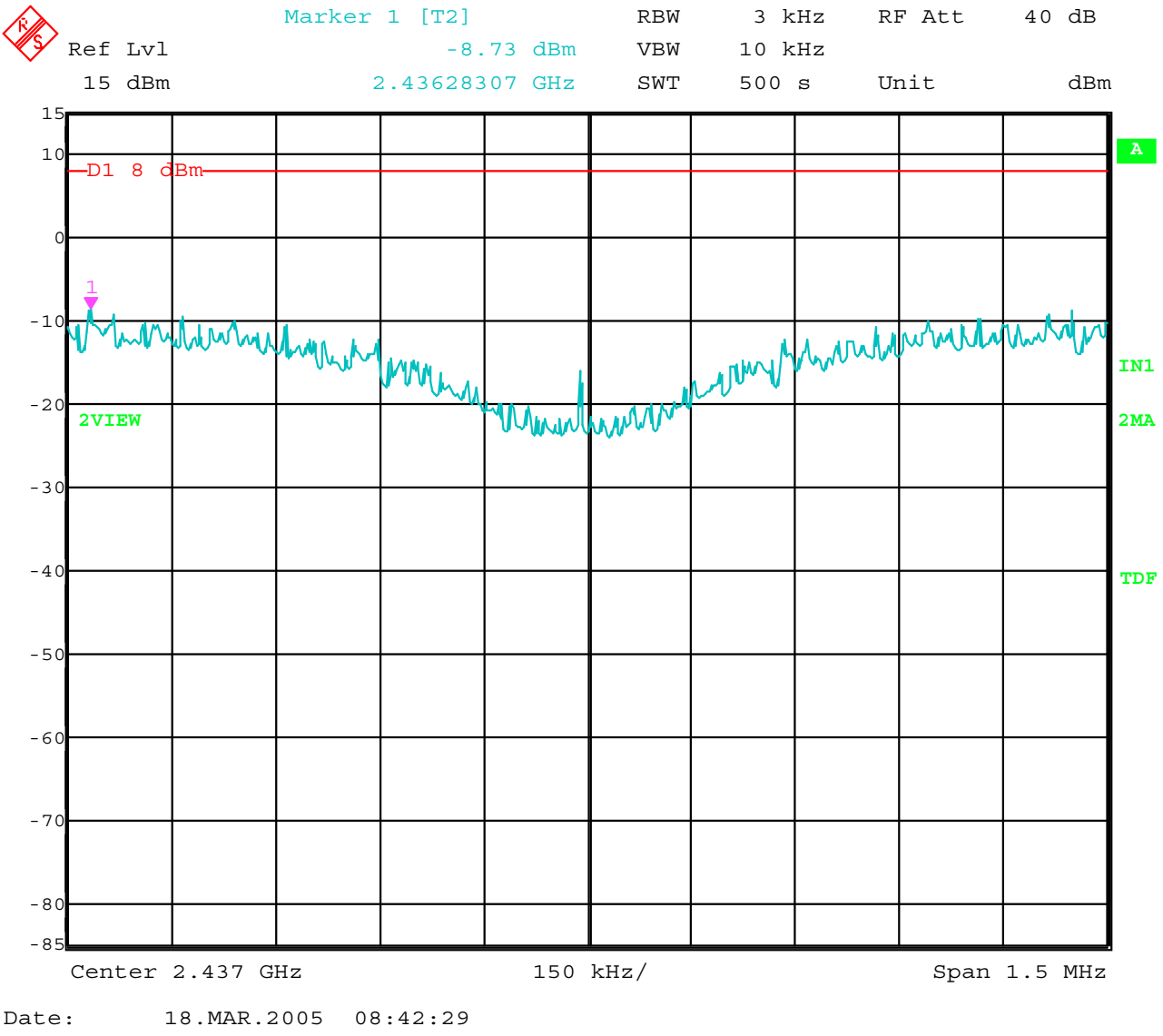
| CHANNEL | GAIN | PEAK POWER OUTPUT (dBm) |
|---|---|---|
| 1 (2412 MHz) | 24.5 | 16.50 |
| 6 (2437 MHz) | 24.5 | 16.55 |
| 11 (2462 MHz) | 24.5 | 16.55 |

# *PEAK POWER SPECTRAL DENSITY*

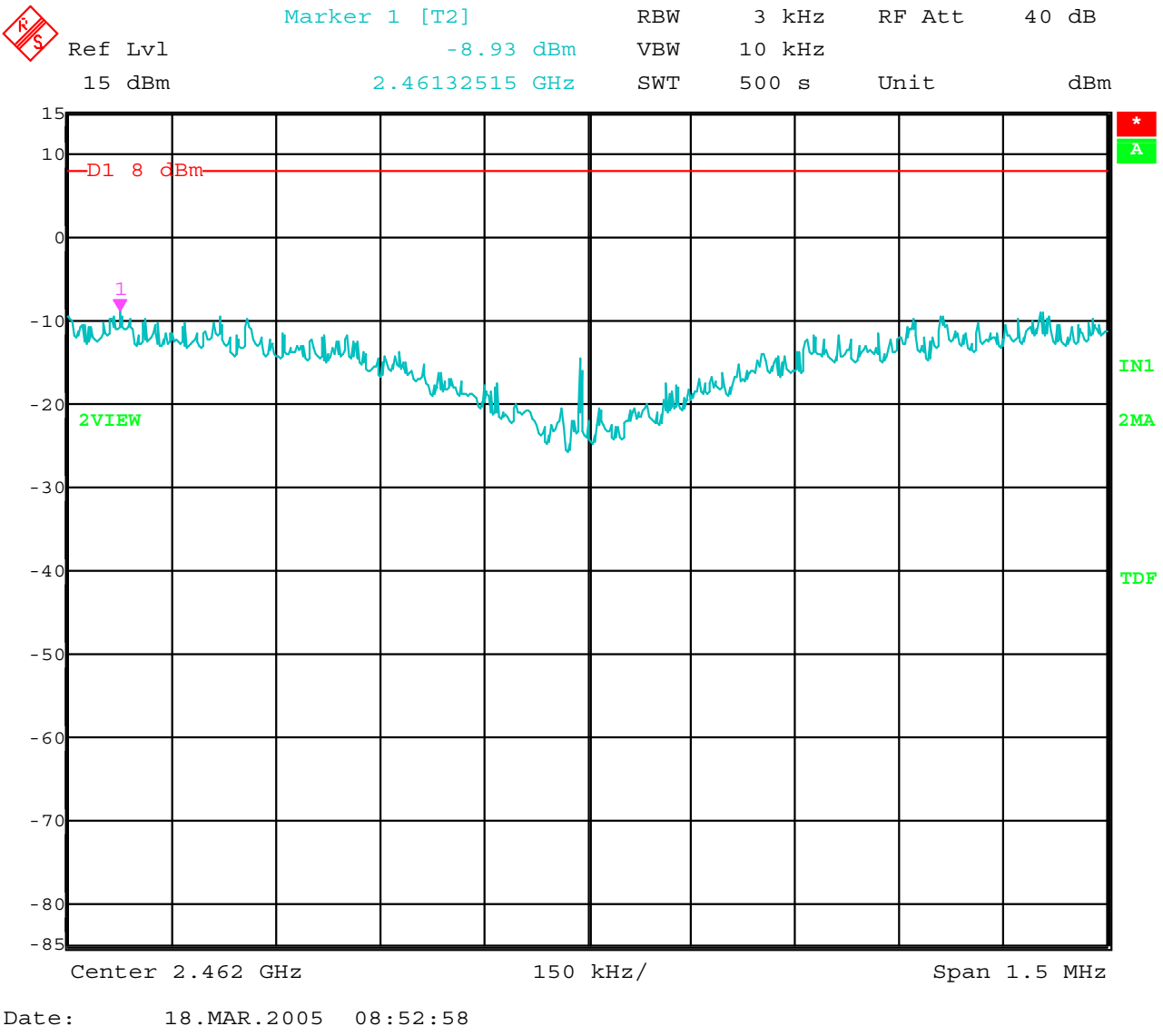
# *DATA SHEETS*



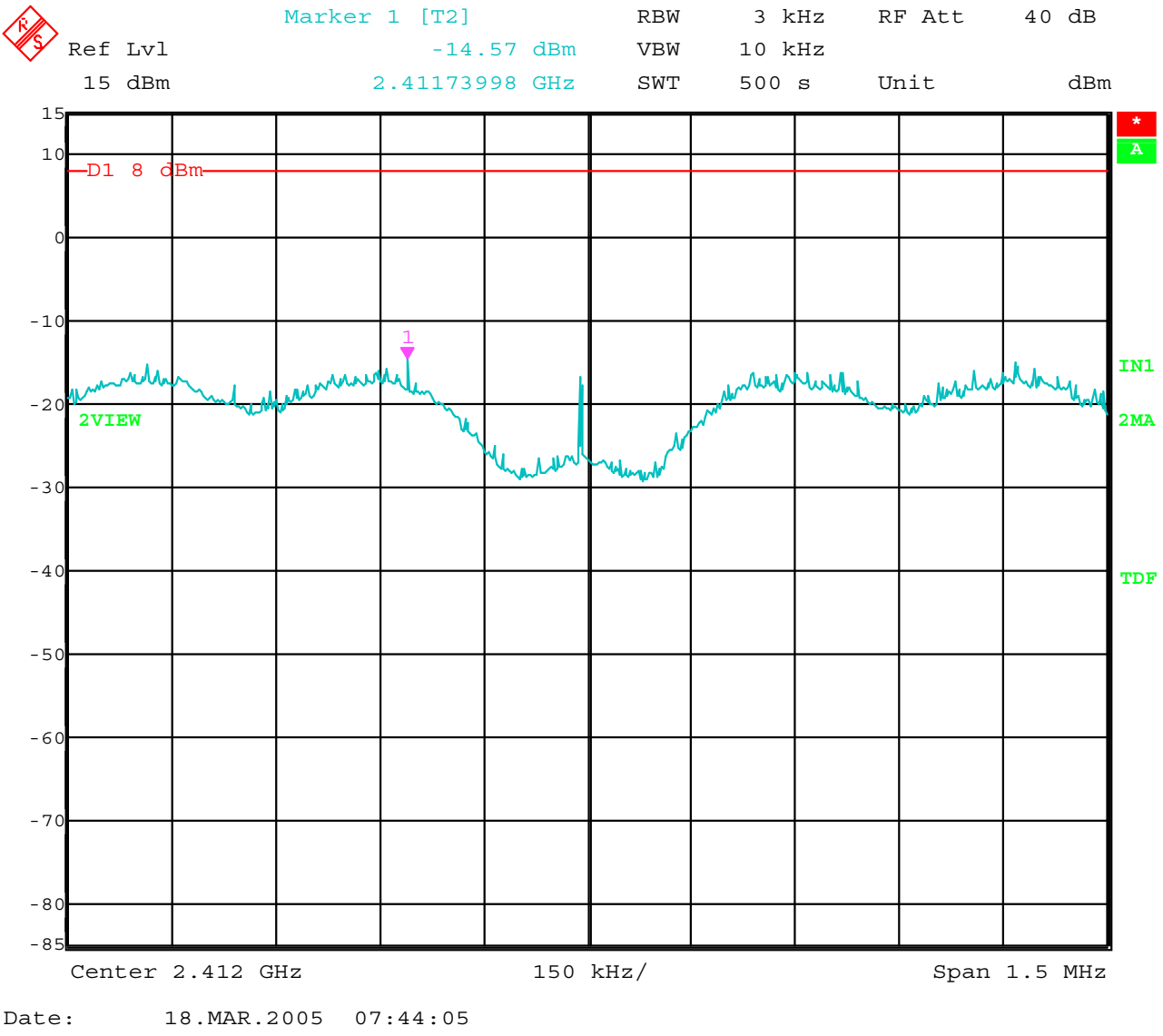

Peak Power Spectral Density Output – Channel 1 – 802.11 b Mode – Phycomp Antenna



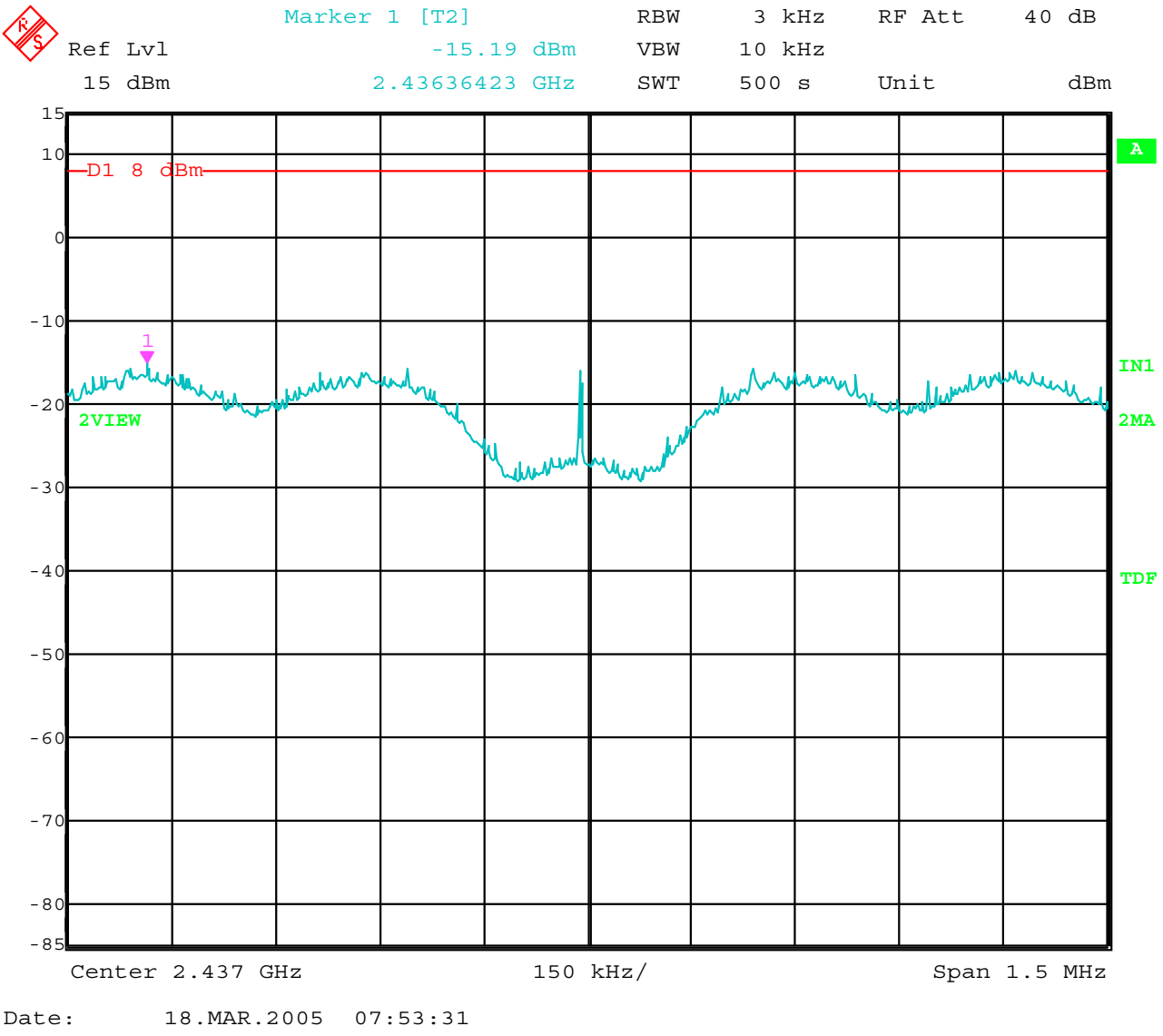

Peak Power Spectral Density Output – Channel 6 – 802.11 b Mode – Phycomp Antenna



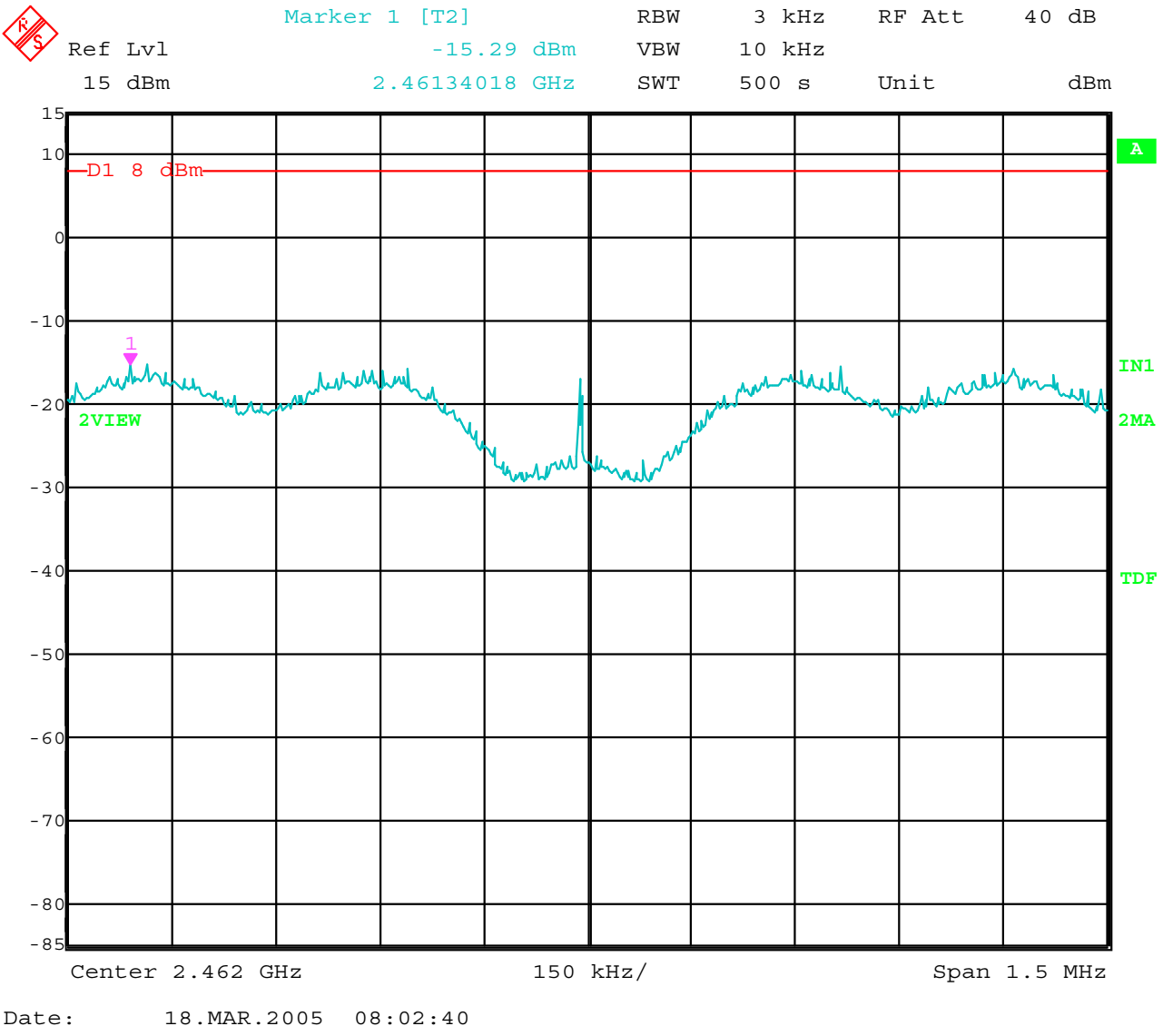

Peak Power Spectral Density Output – Channel 11 – 802.11 b Mode – Phycomp Antenna




Peak Power Spectral Density Output – Channel 1 – 802.11 g Mode – Phycomp Antenna



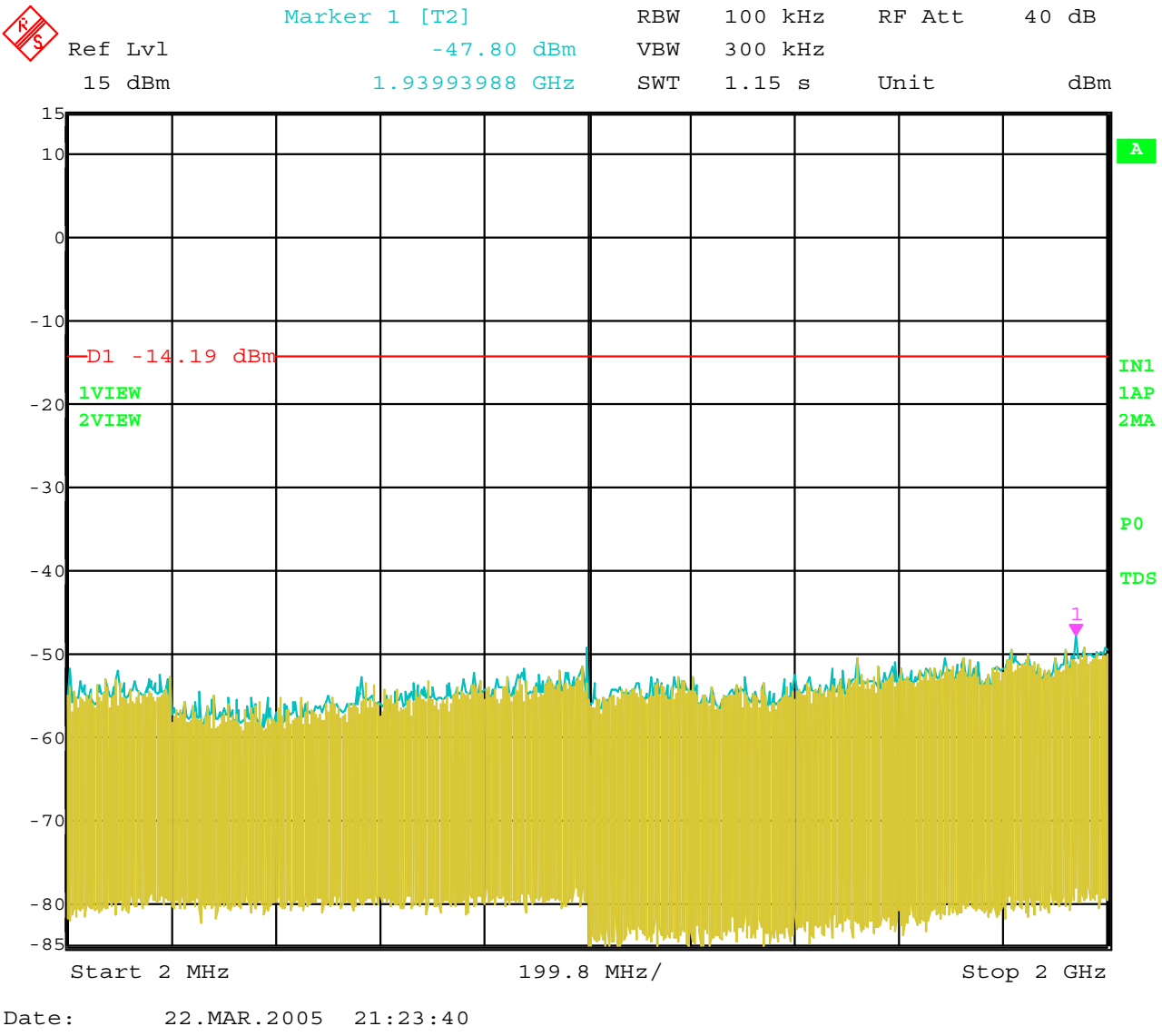

Peak Power Spectral Density Output – Channel 6 – 802.11 g Mode – Phycomp Antenna



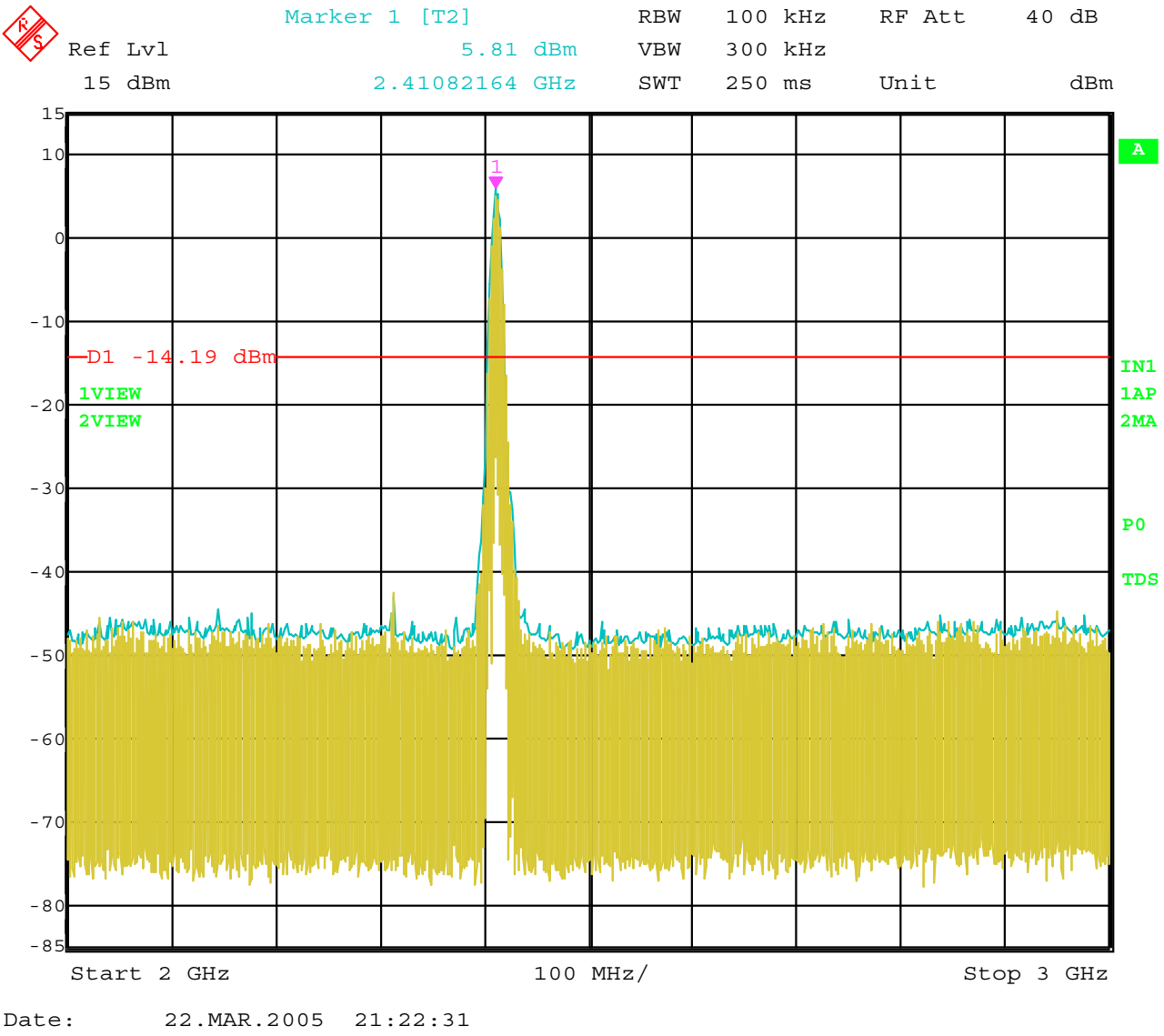

Peak Power Spectral Density Output – Channel 11 – 802.11 g Mode – Phycomp Antenna

# *RF ANTENNA CONDUCTED*

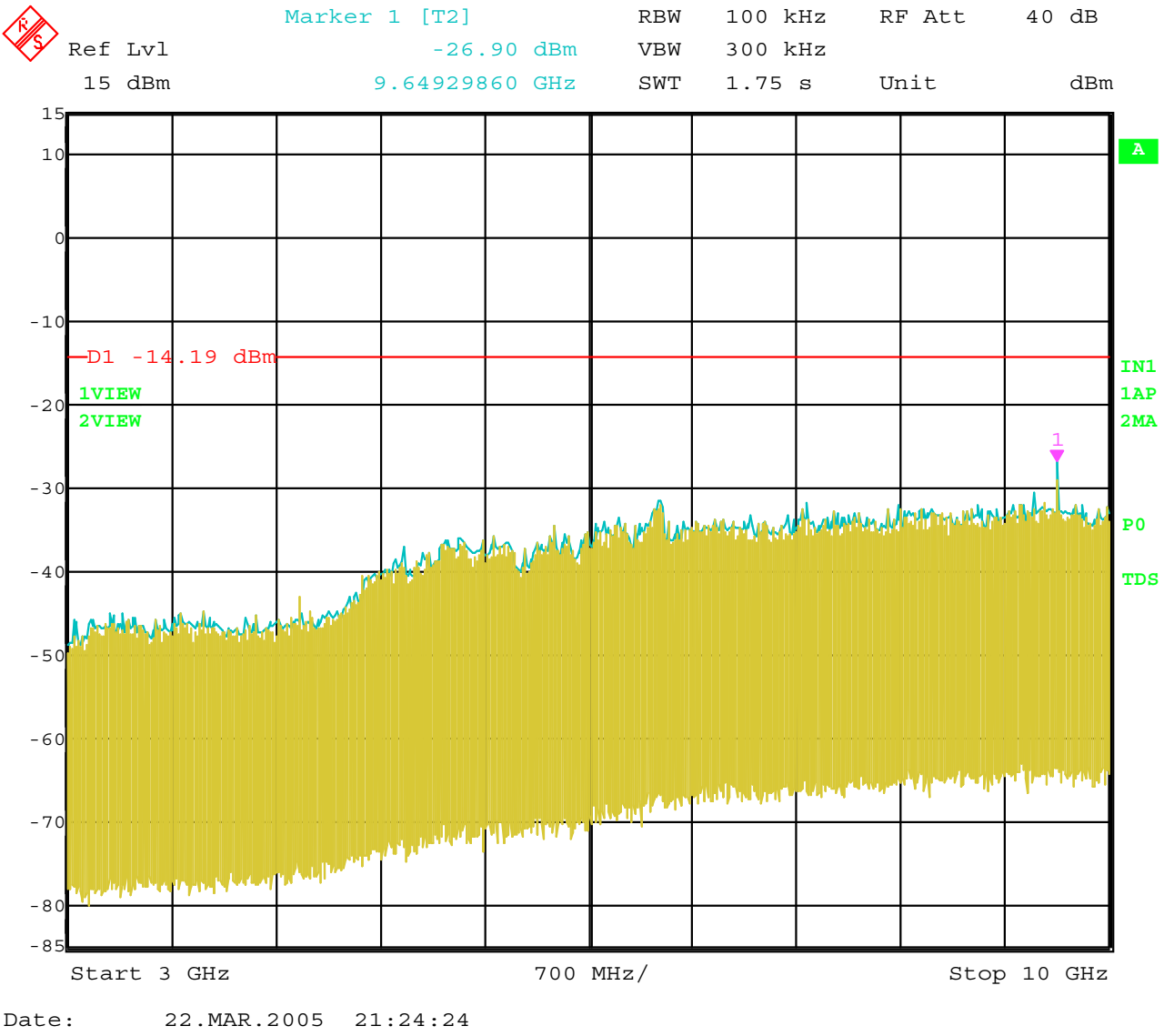
# *DATA SHEETS*



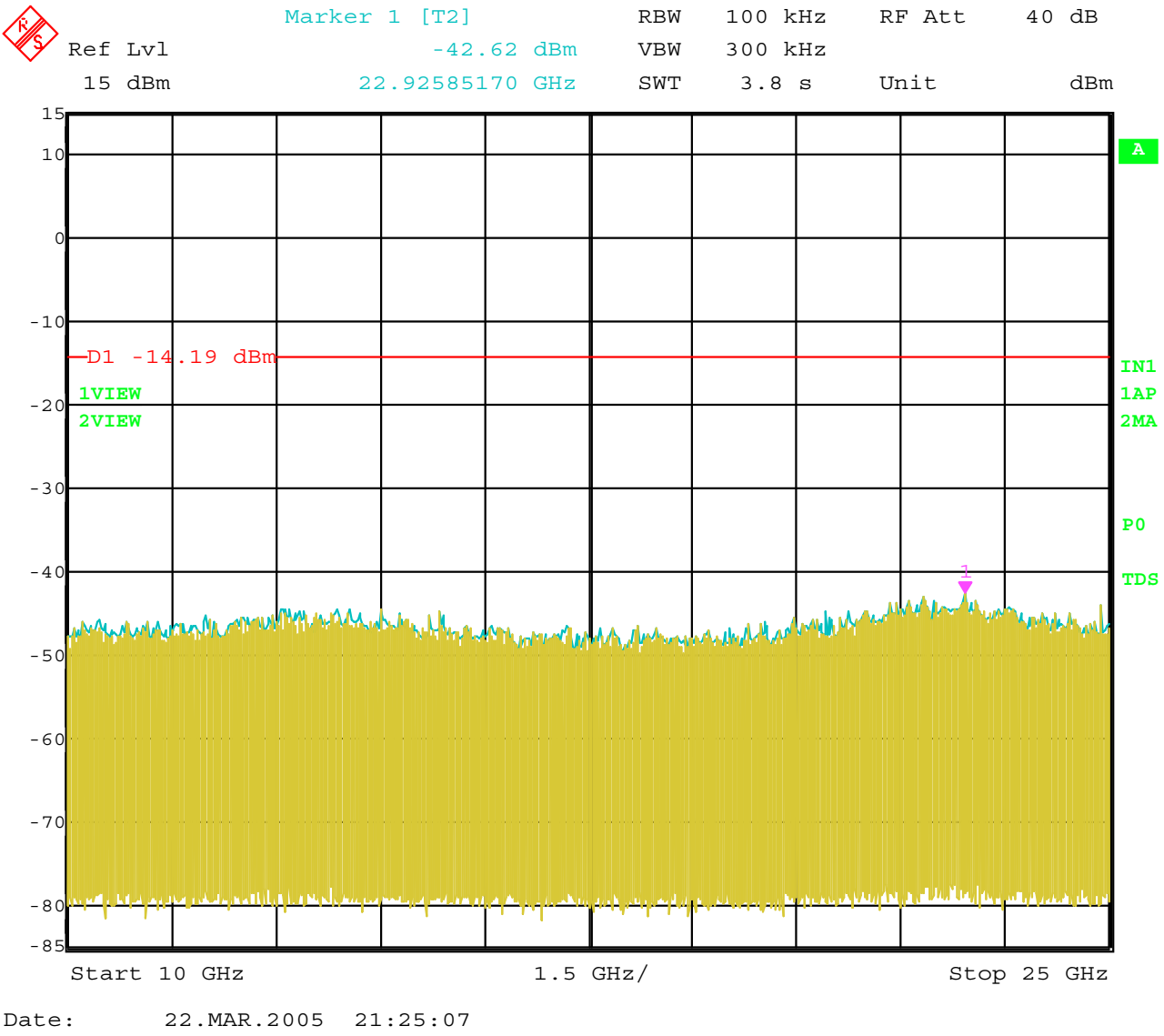

RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – Phycomp Antenna – 2 MHz to 2 GHz



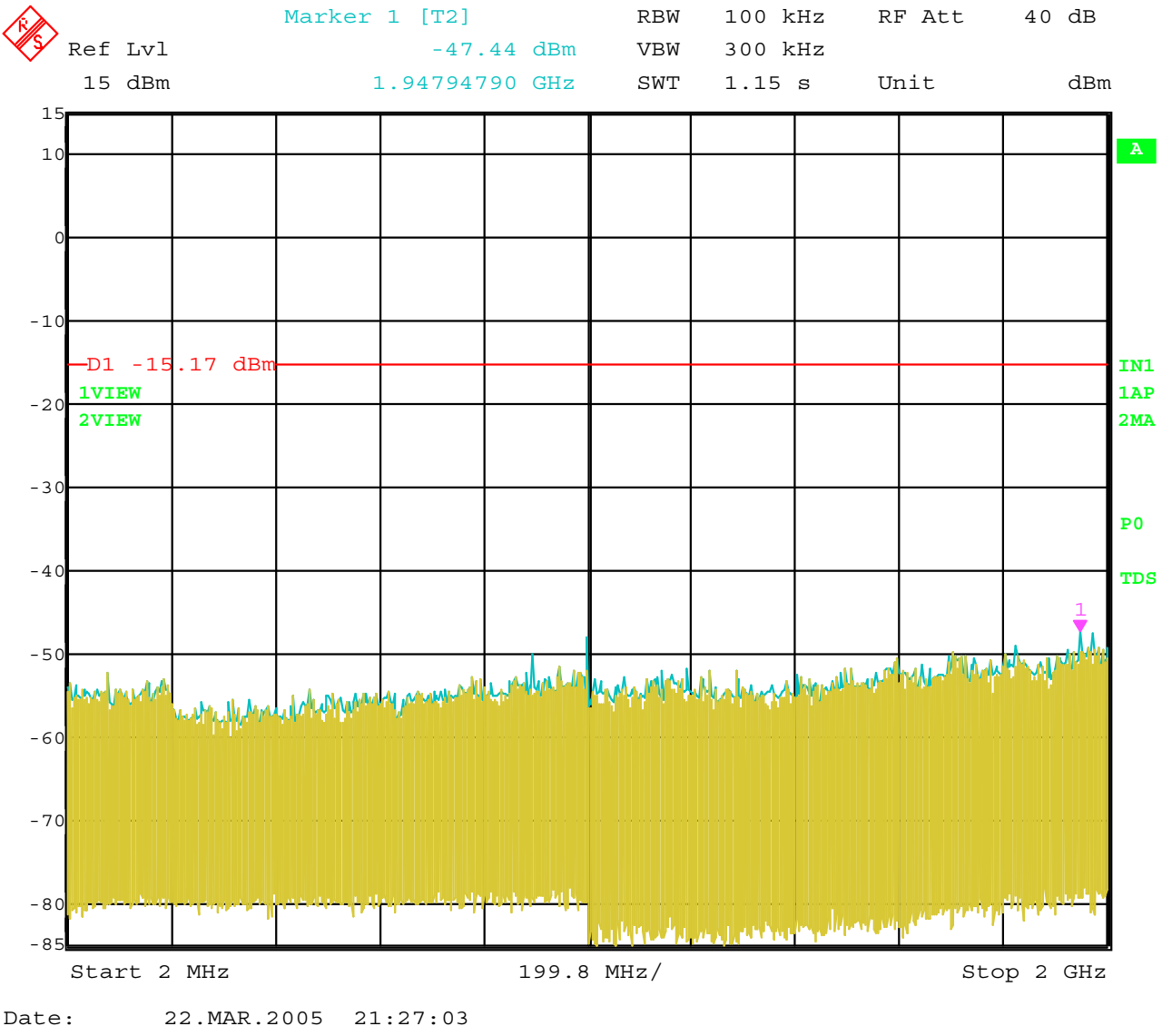

RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – Phycomp Antenna – 2 GHz to 3 GHz



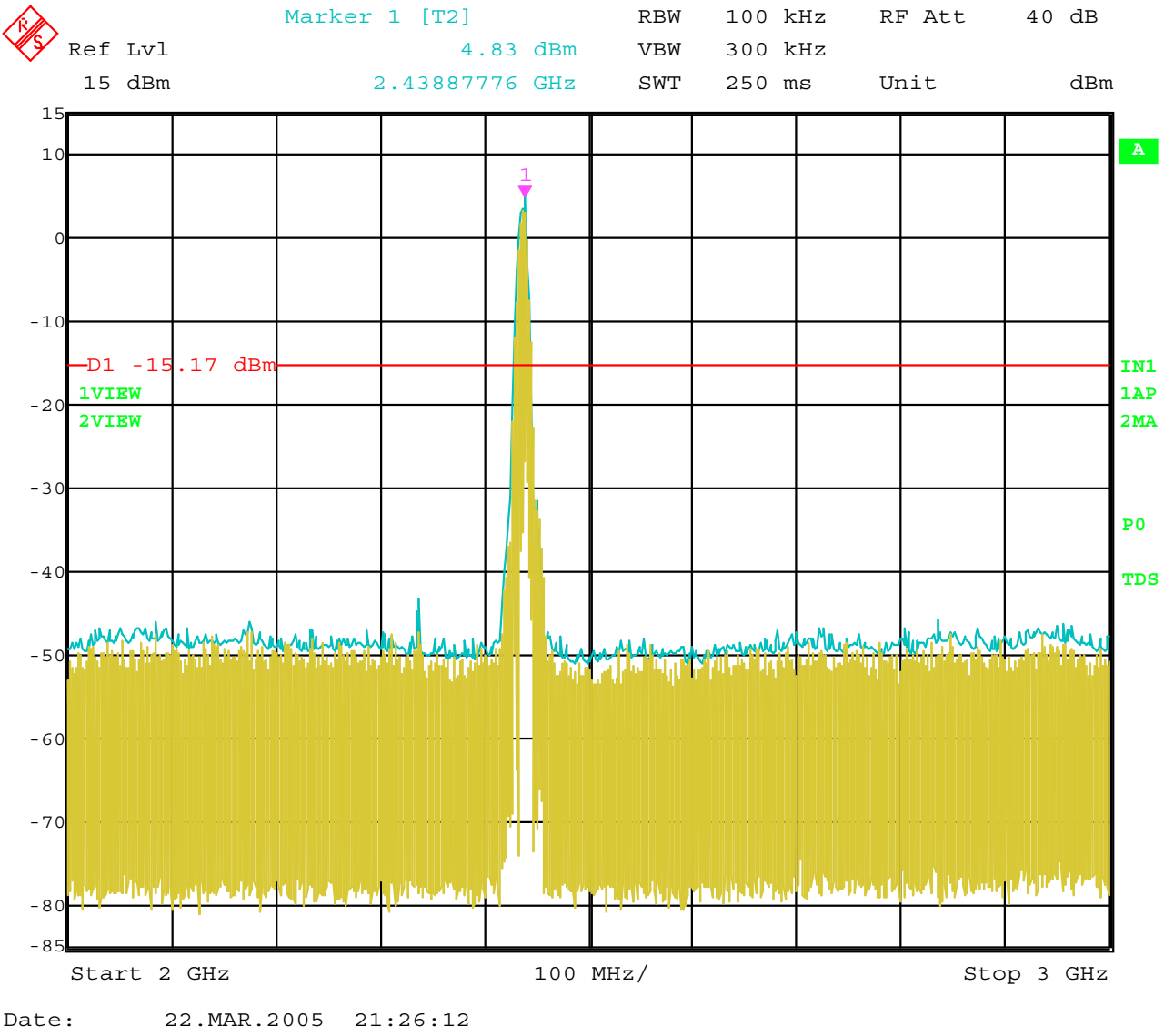

RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – Phycomp Antenna – 3 MHz to 10 GHz



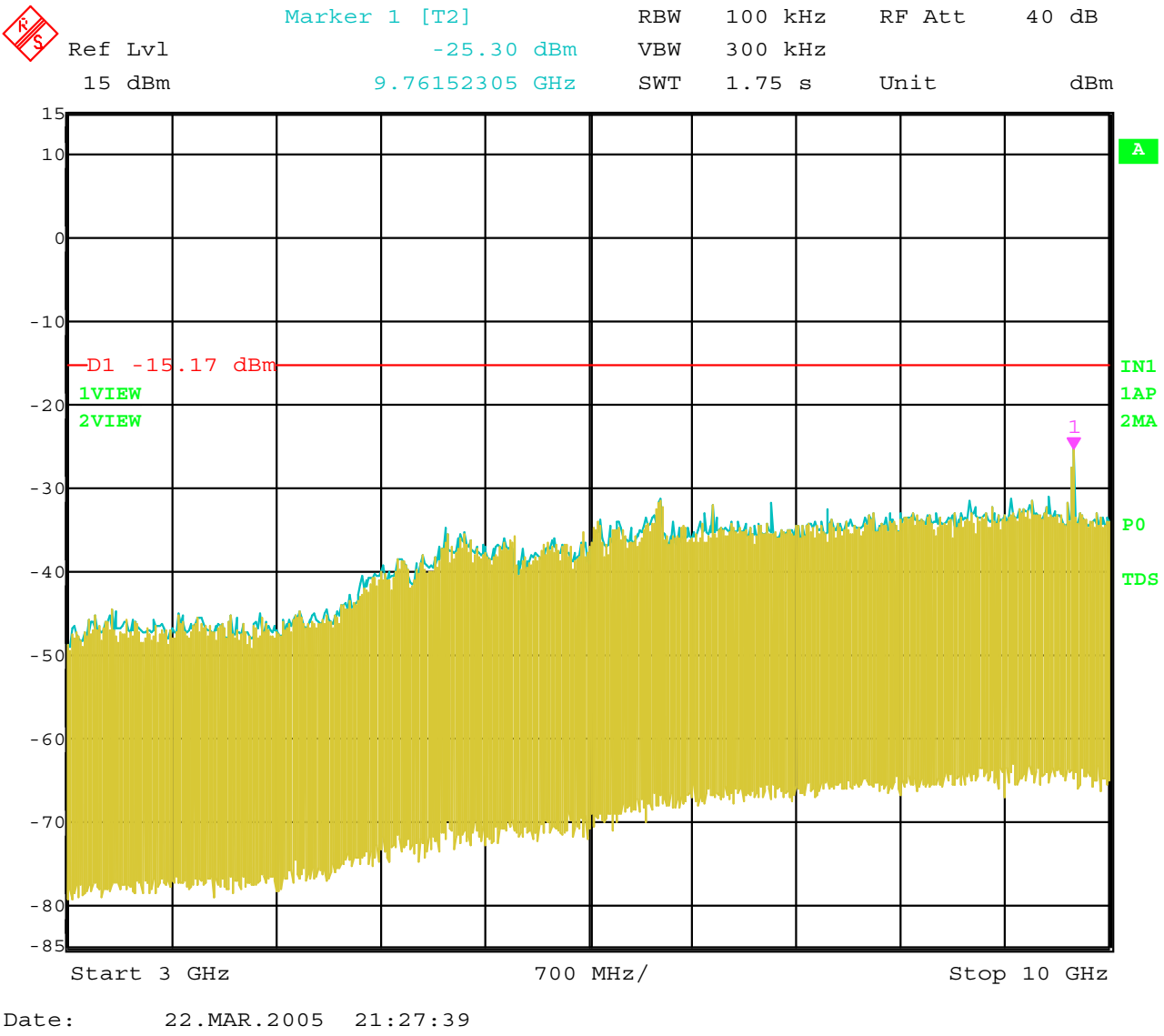

RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – Phycomp Antenna – 10 GHz to 25 GHz



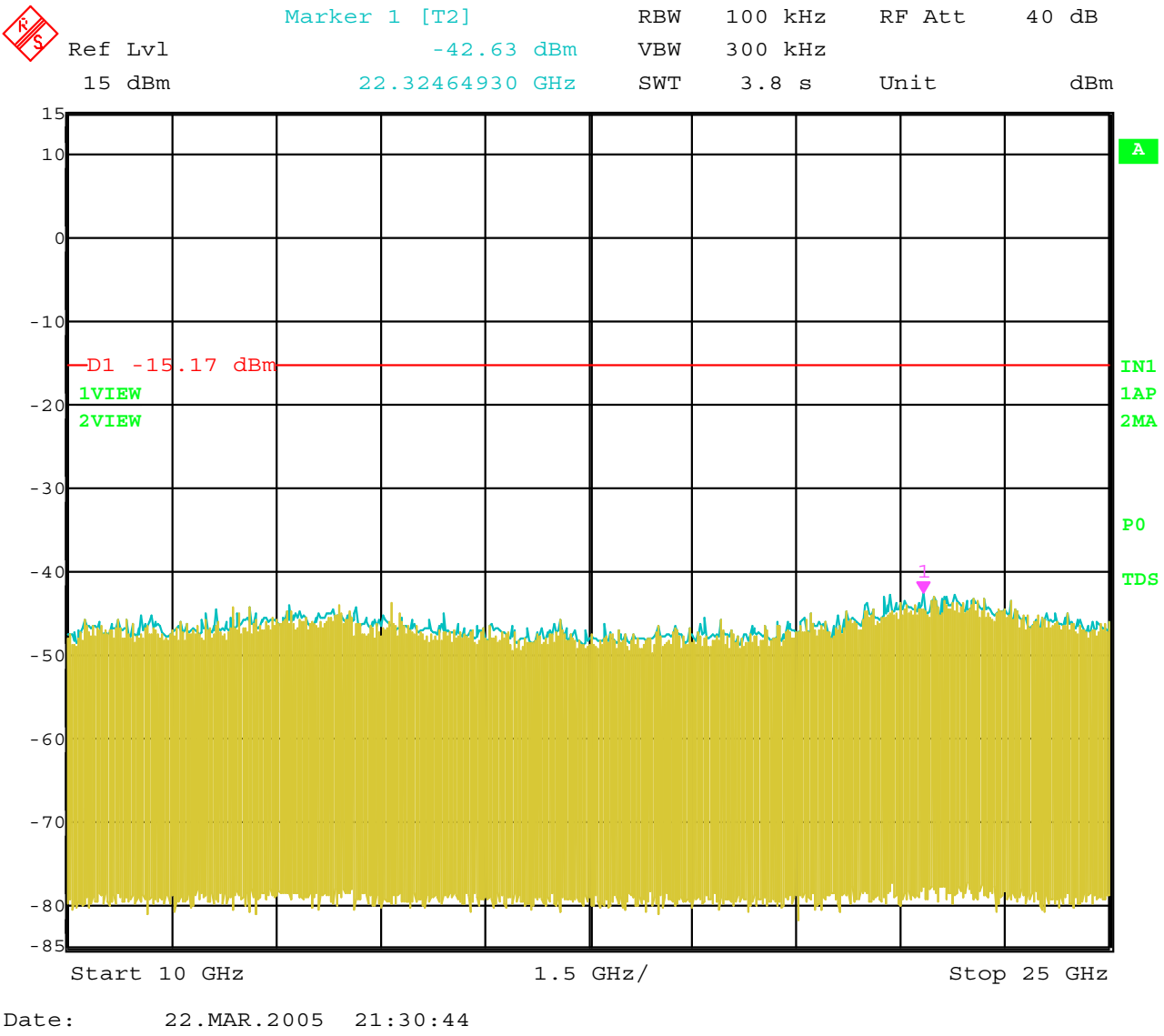

RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – Phycomp Antenna – 2 MHz to 2 GHz



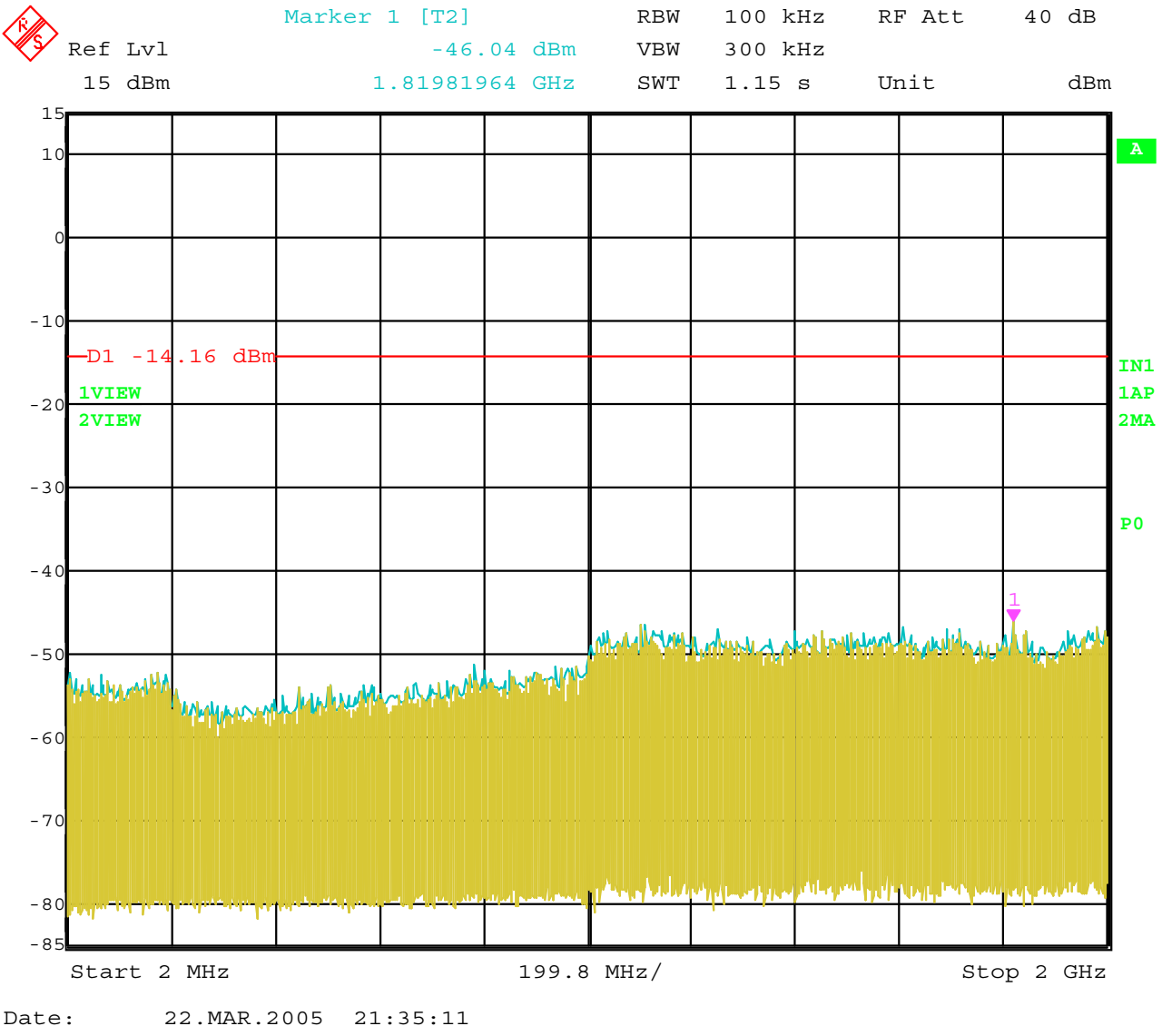

RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – Phycomp Antenna – 2 GHz to 3 GHz



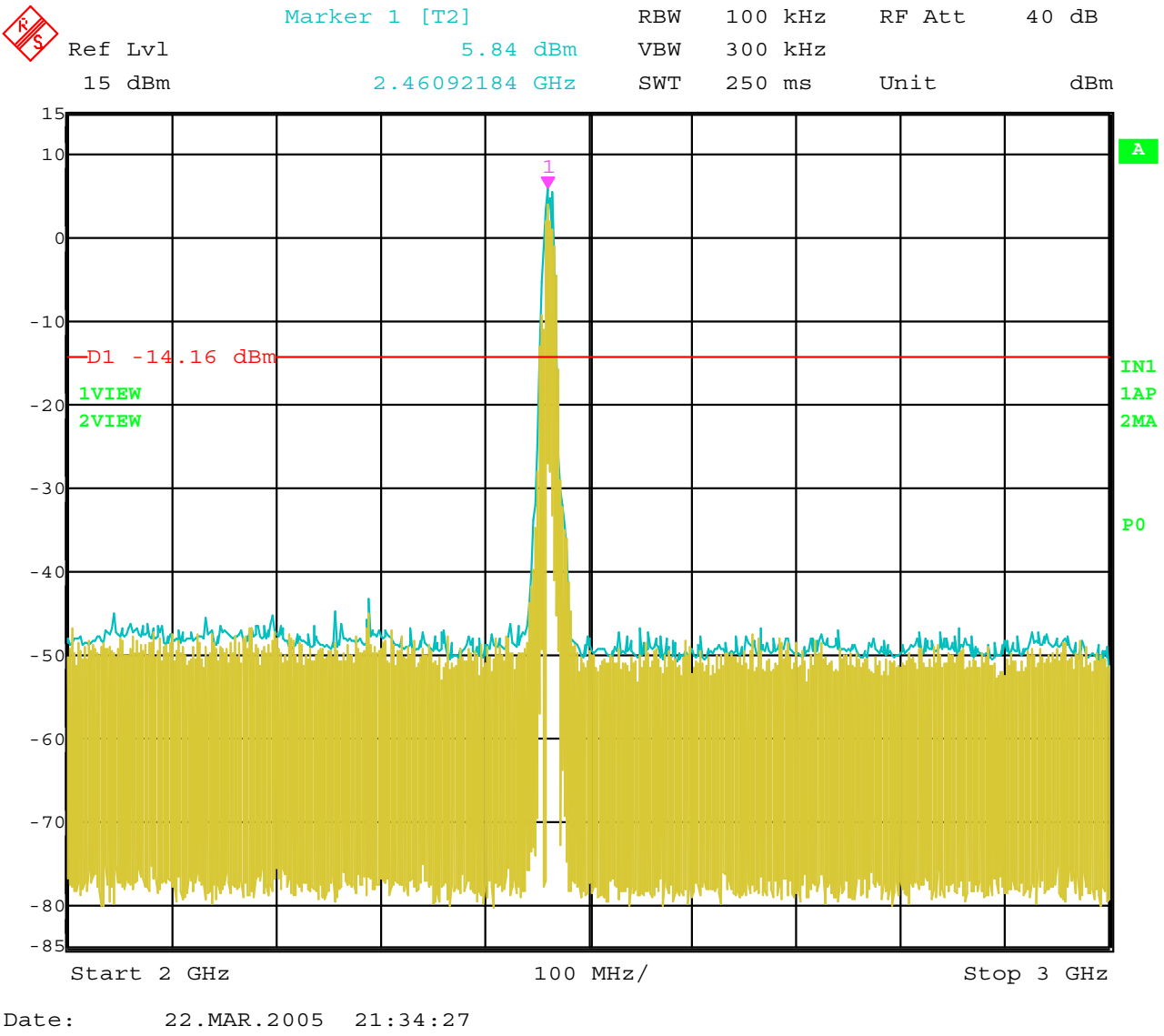

RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – Phycomp Antenna – 3 GHz to 10 GHz



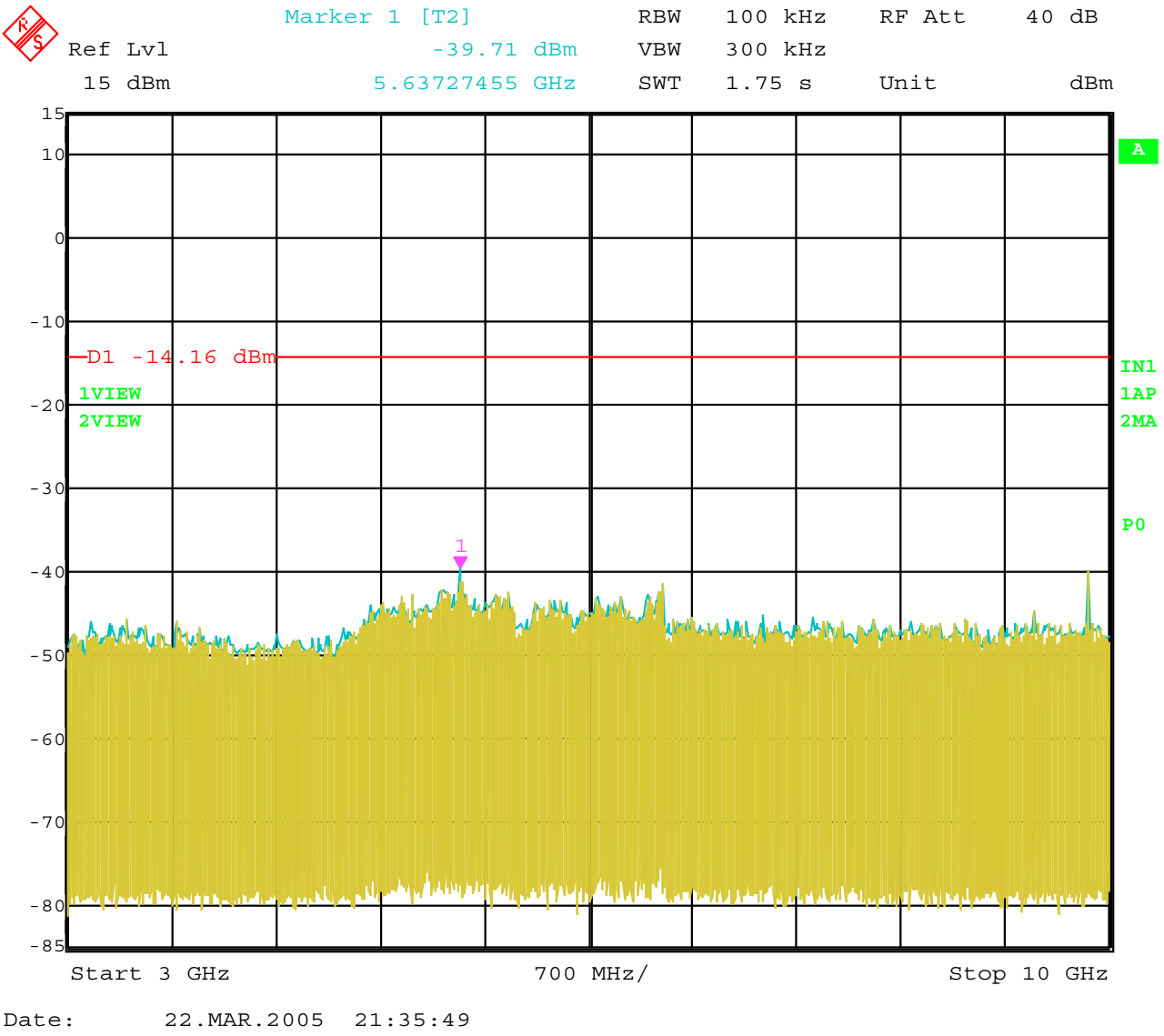

RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – Phycomp Antenna – 10 GHz to 25 GHz



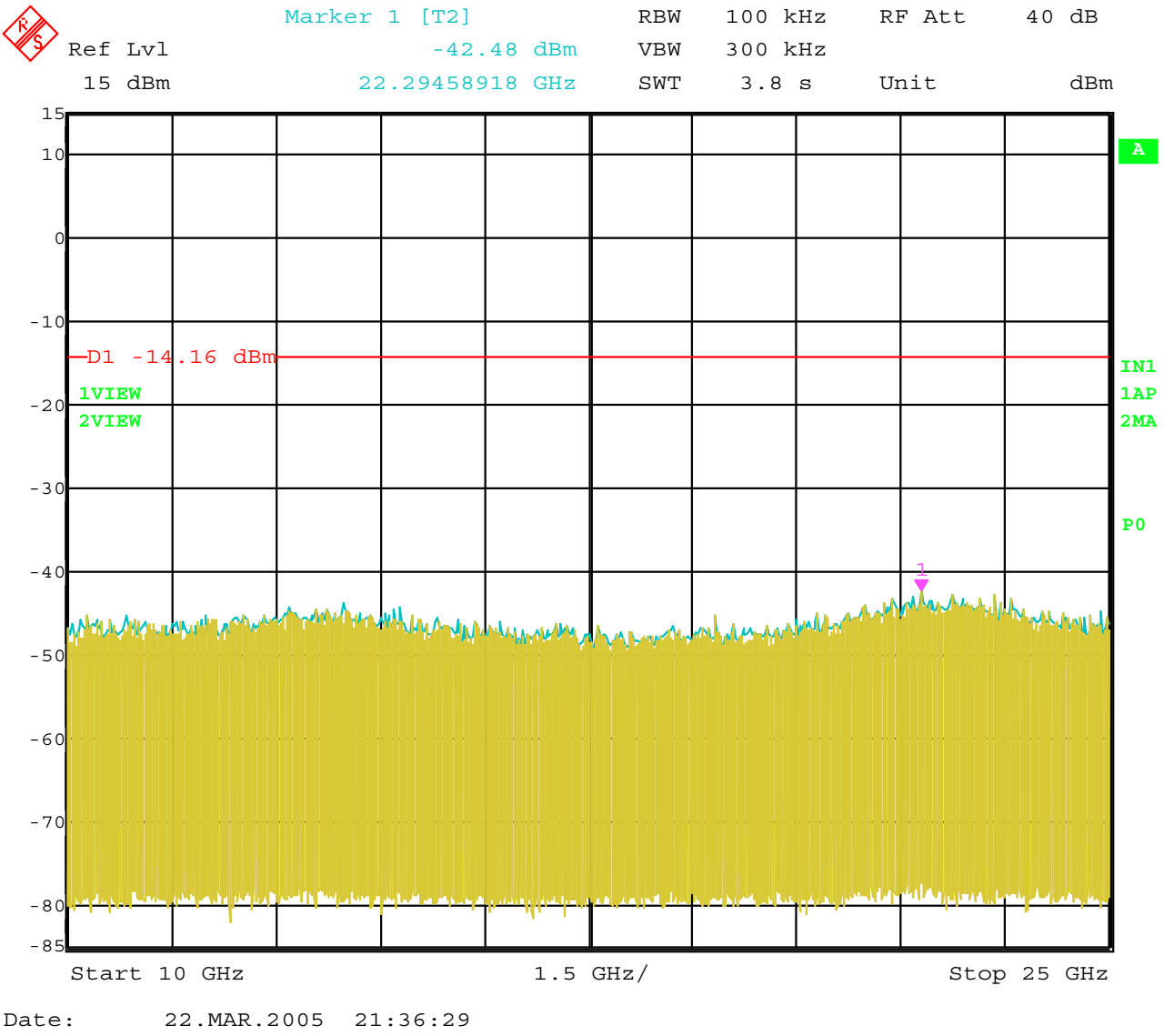

RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – Phycomp Antenna – 2 MHz to 2 GHz



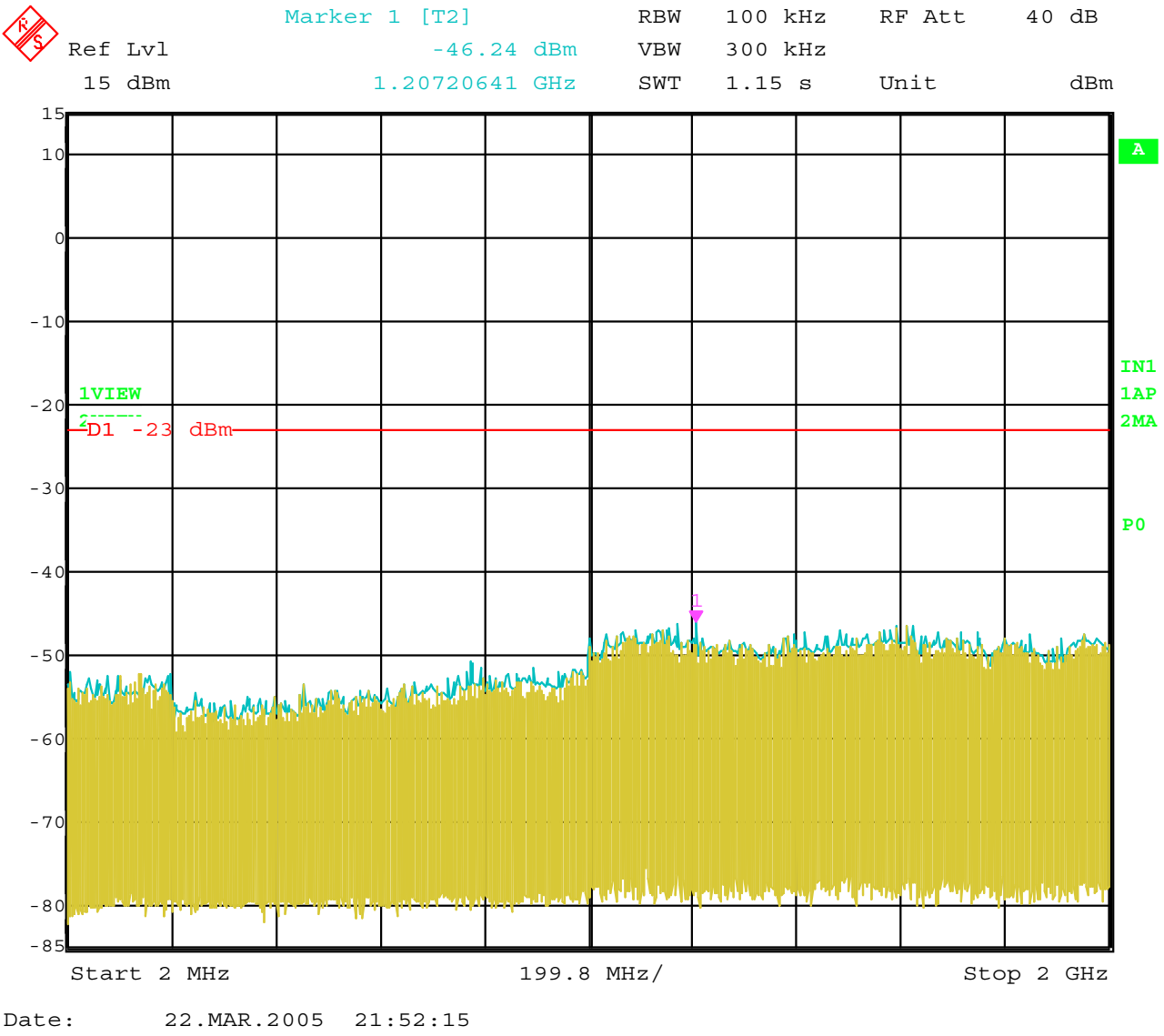

RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – Phycomp Antenna – 2 GHz to 3 GHz



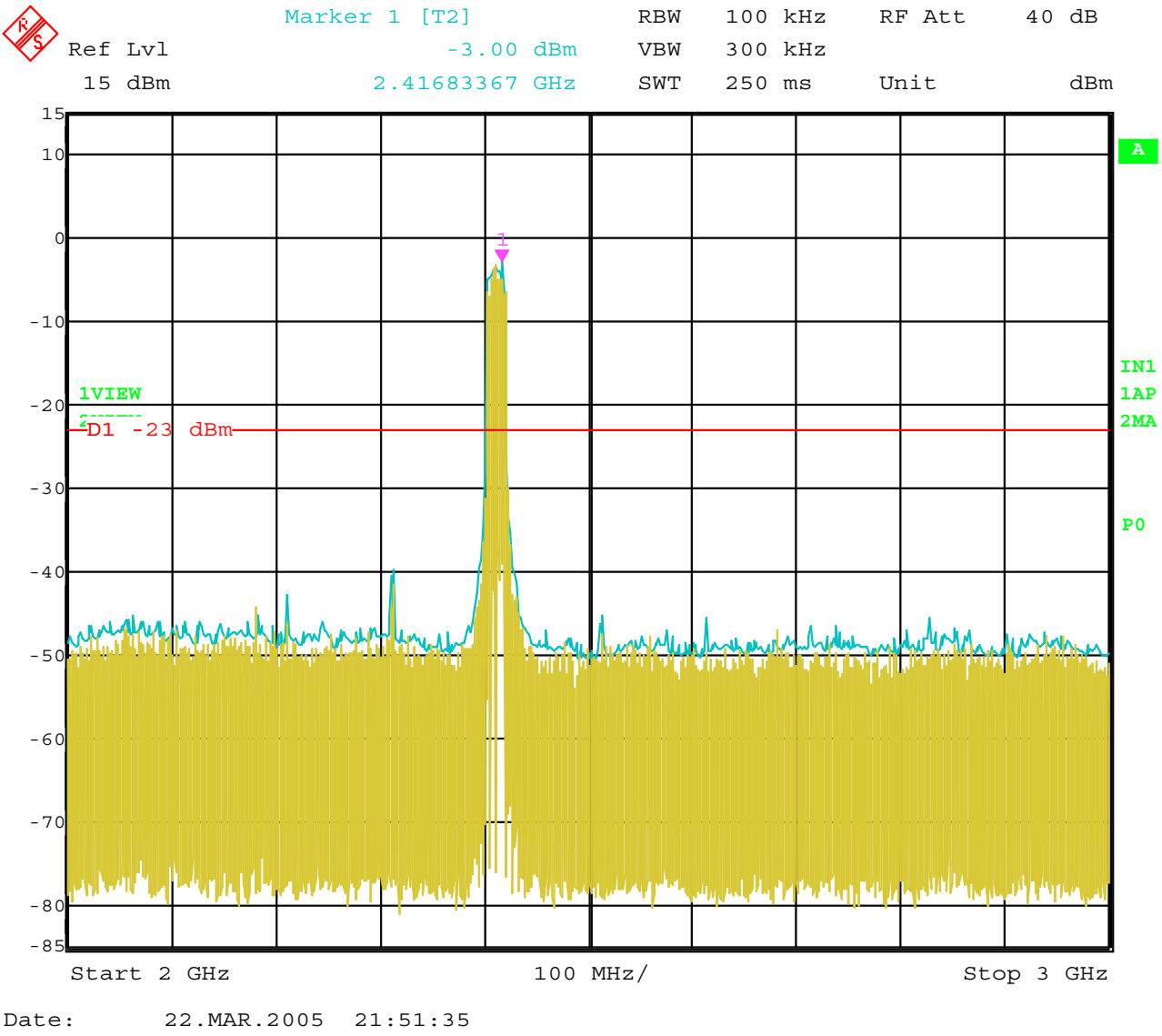

RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – Phycomp Antenna – 3 GHz to 10 GHz



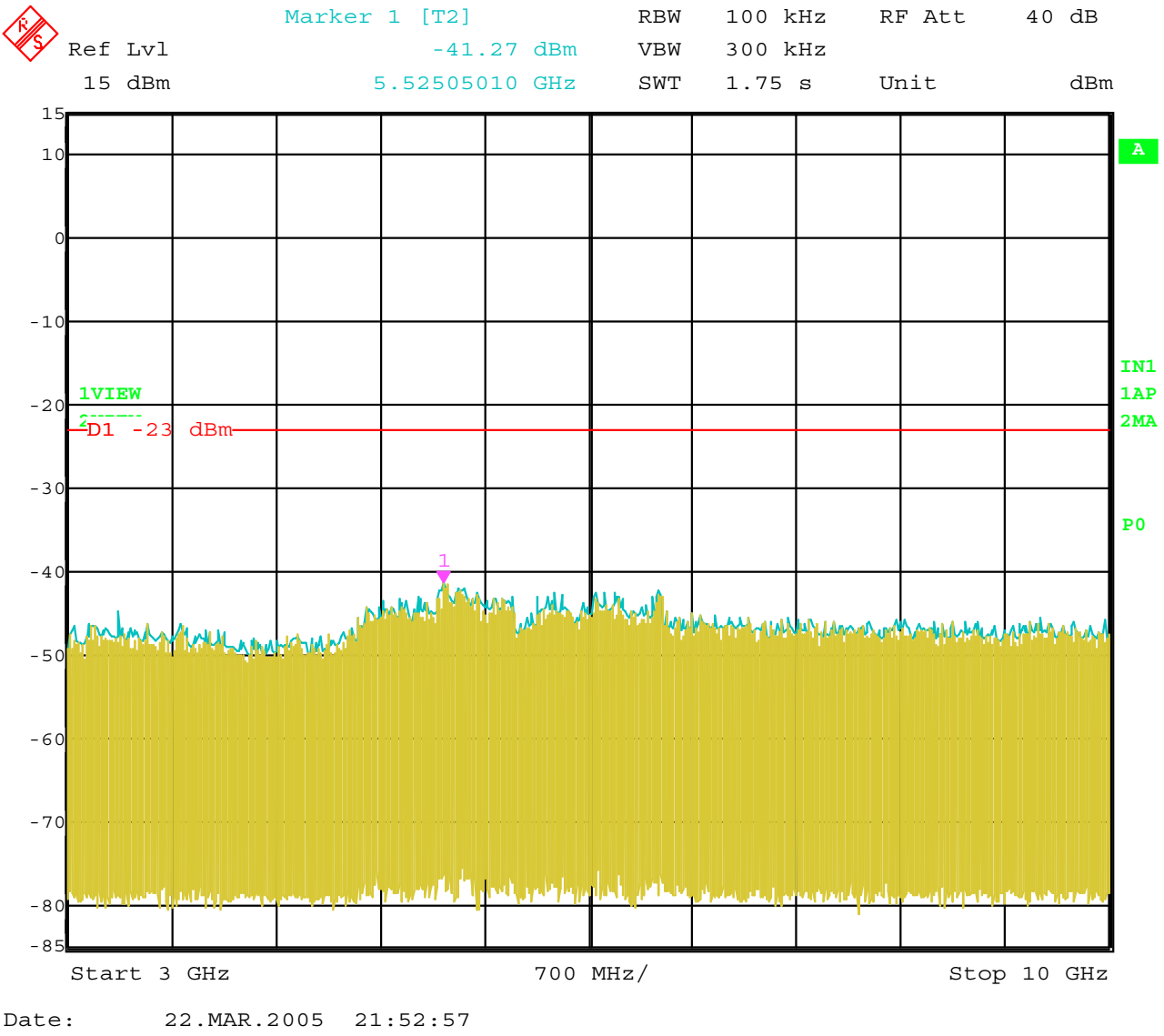

RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – Phycomp Antenna – 10 GHz to 25 GHz



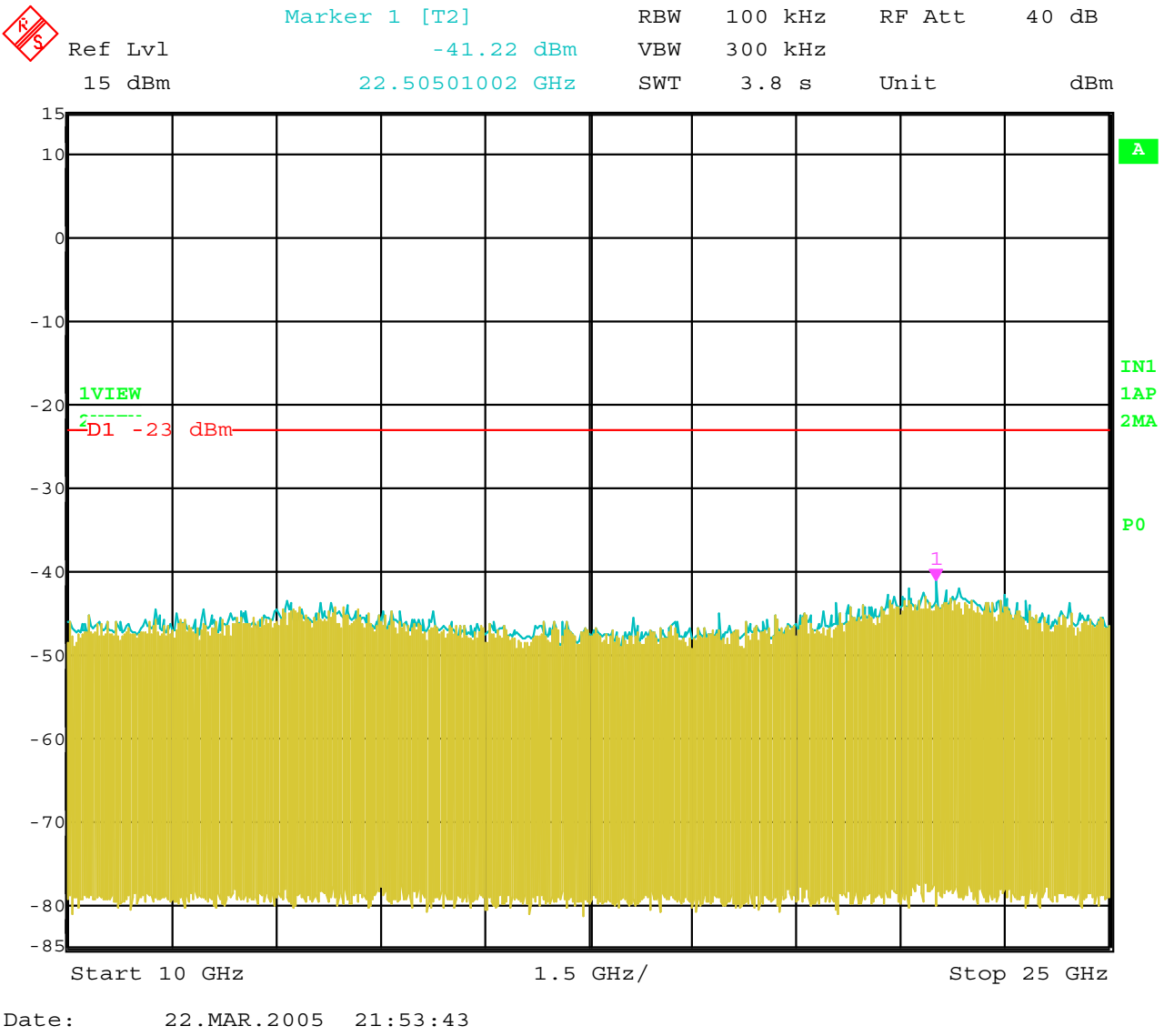

RF Antenna Conducted Test – Channel 1 – 802.11 g Mode – Phycomp Antenna – 2 MHz to 2 GHz



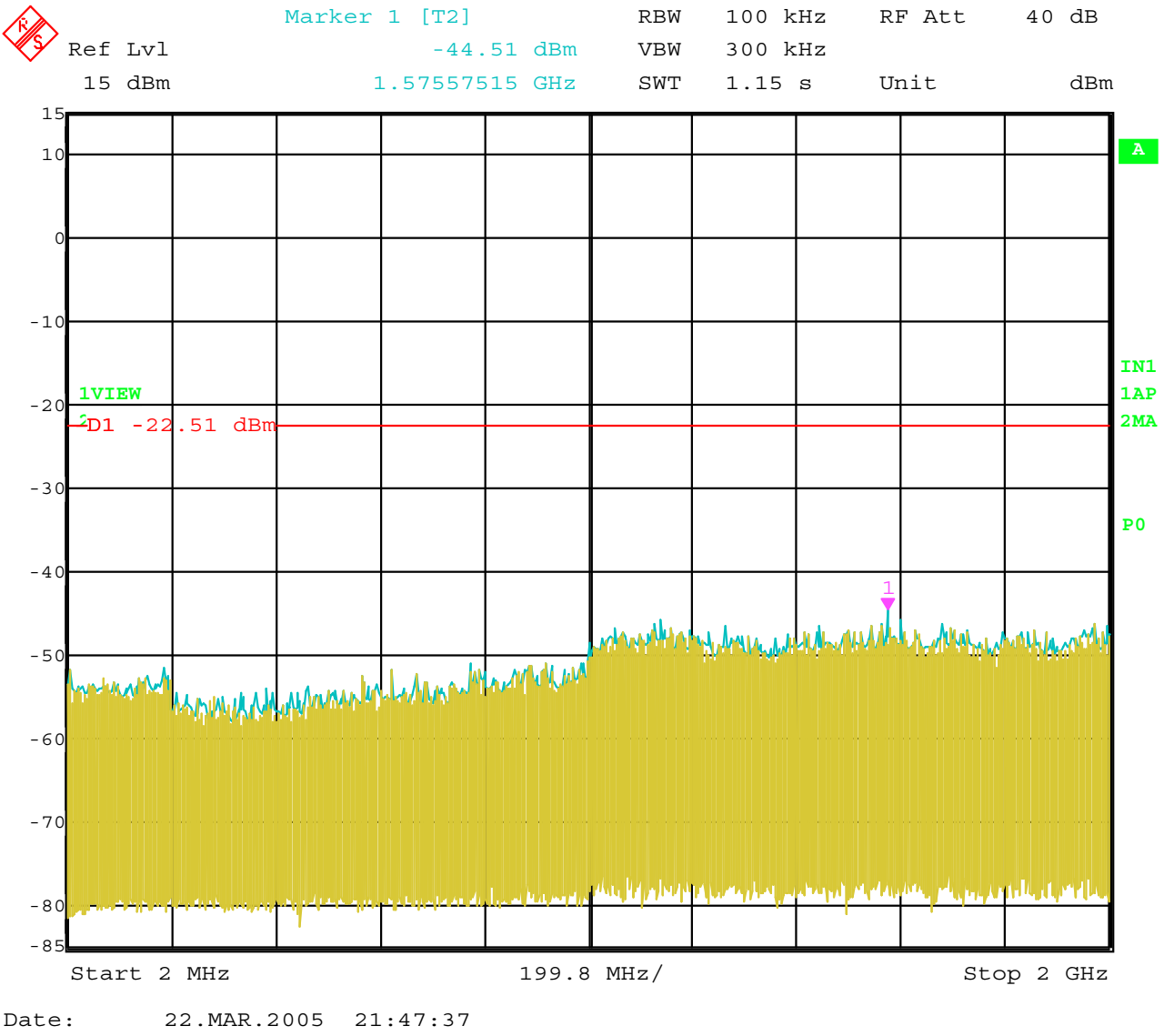

RF Antenna Conducted Test – Channel 1 – 802.11 g Mode – Phycomp Antenna – 2 GHz to 3 GHz



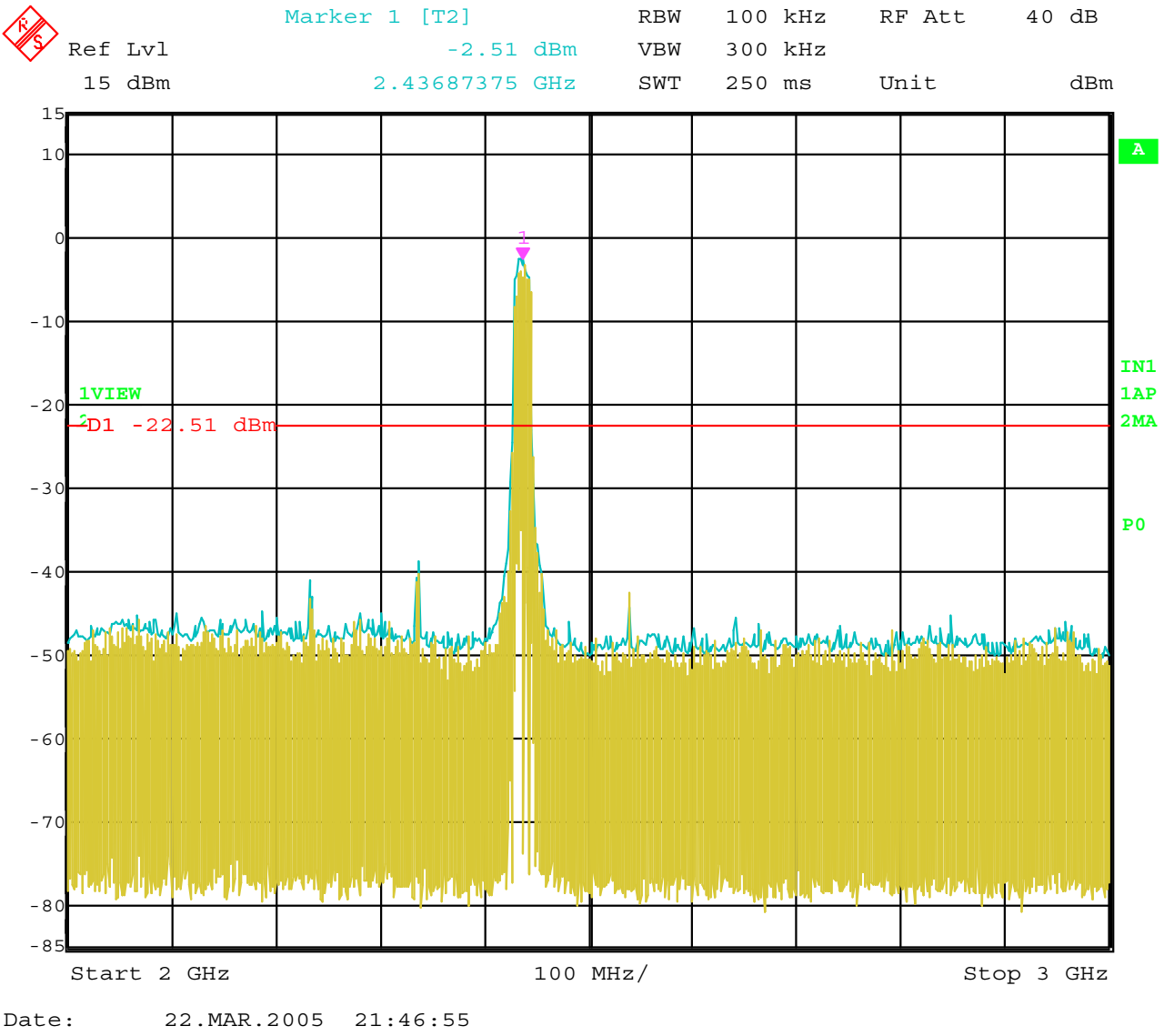

RF Antenna Conducted Test – Channel 1 – 802.11 g Mode – Phycomp Antenna – 3 MHz to 10 GHz



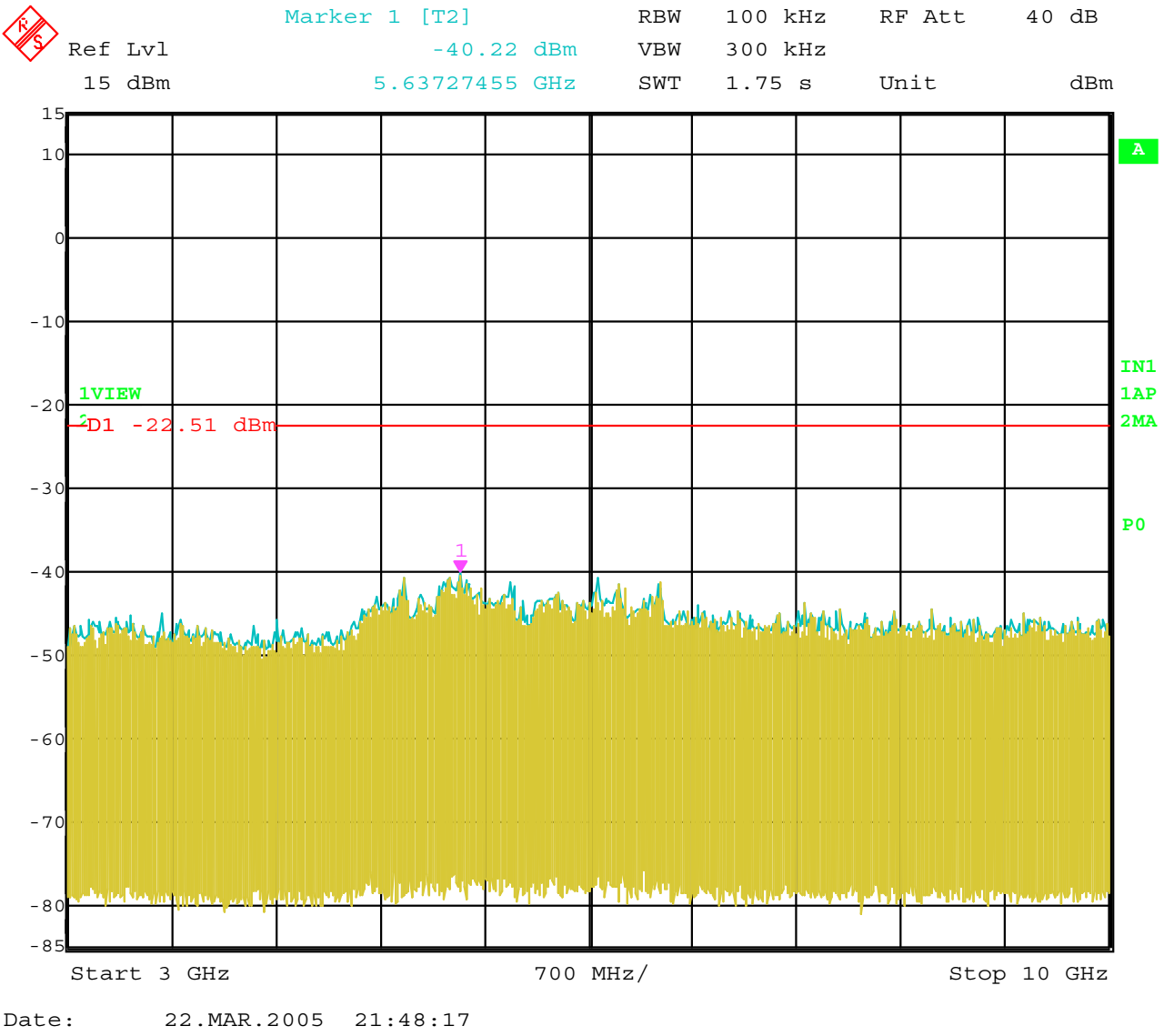

RF Antenna Conducted Test – Channel 1 – 802.11 g Mode – Phycomp Antenna – 10 GHz to 25 GHz



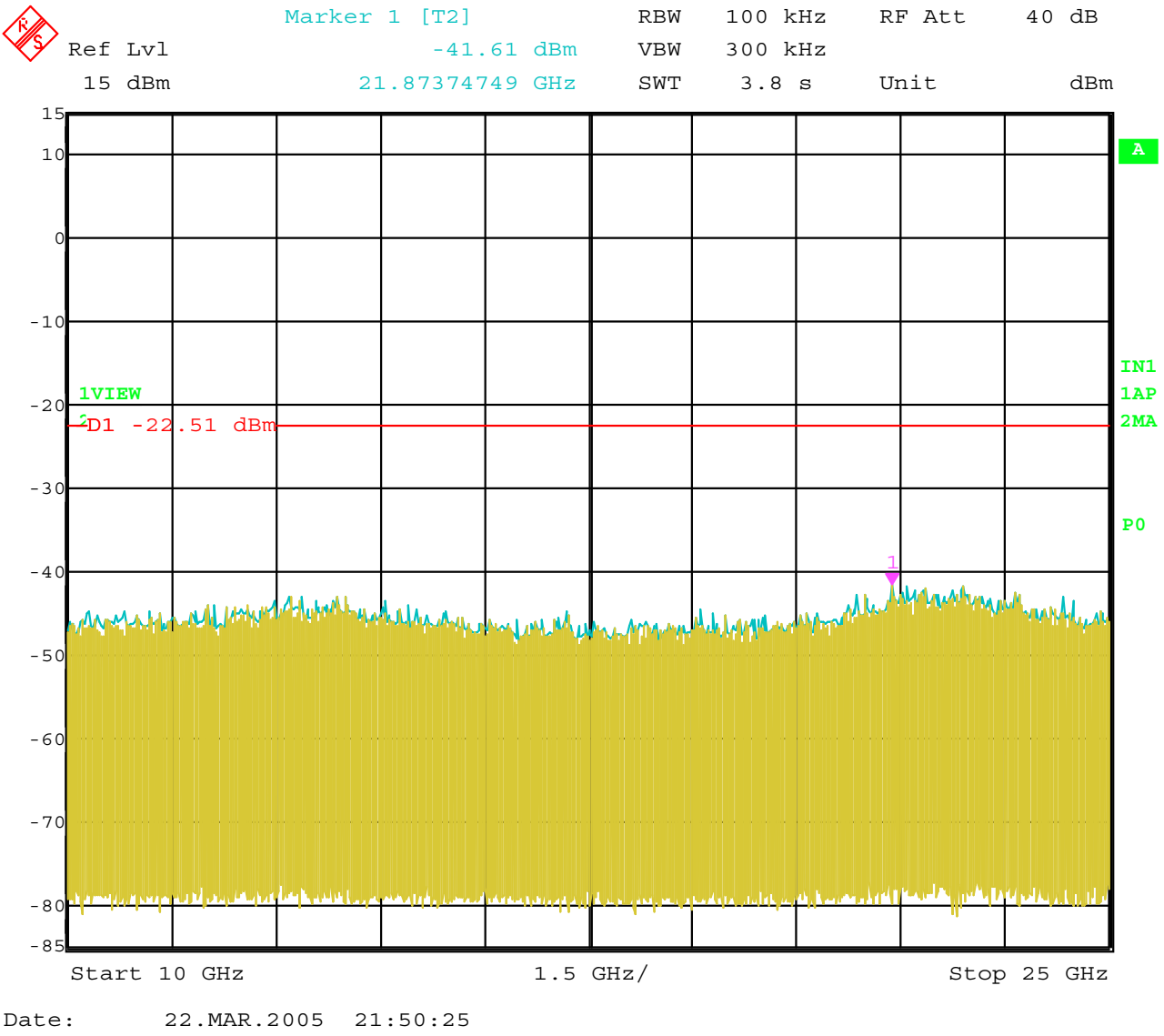

RF Antenna Conducted Test – Channel 6 – 802.11 g Mode – Phycomp Antenna – 2 MHz to 2 GHz



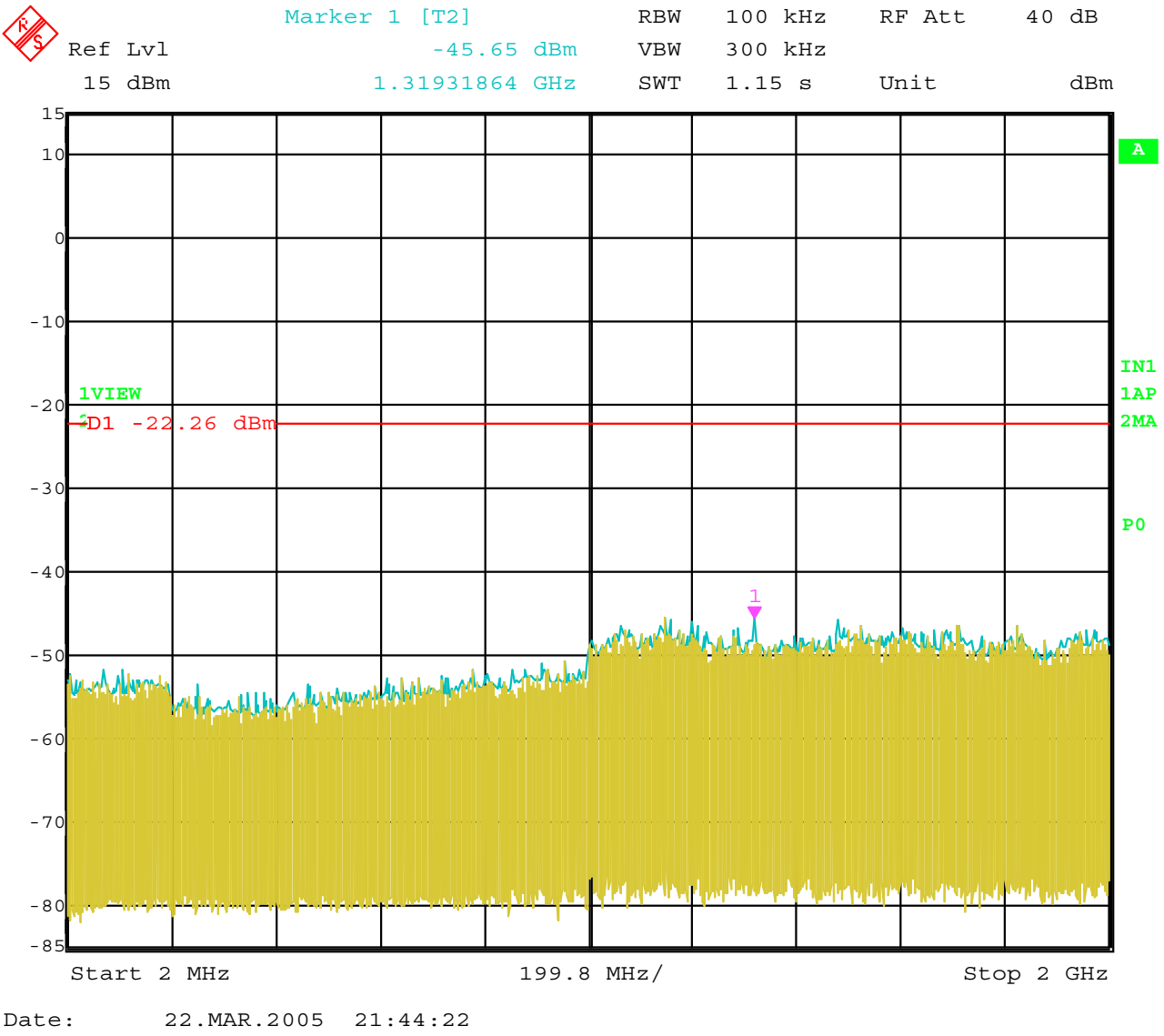

RF Antenna Conducted Test – Channel 6 – 802.11 g Mode – Phycomp Antenna – 2 GHz to 3 GHz



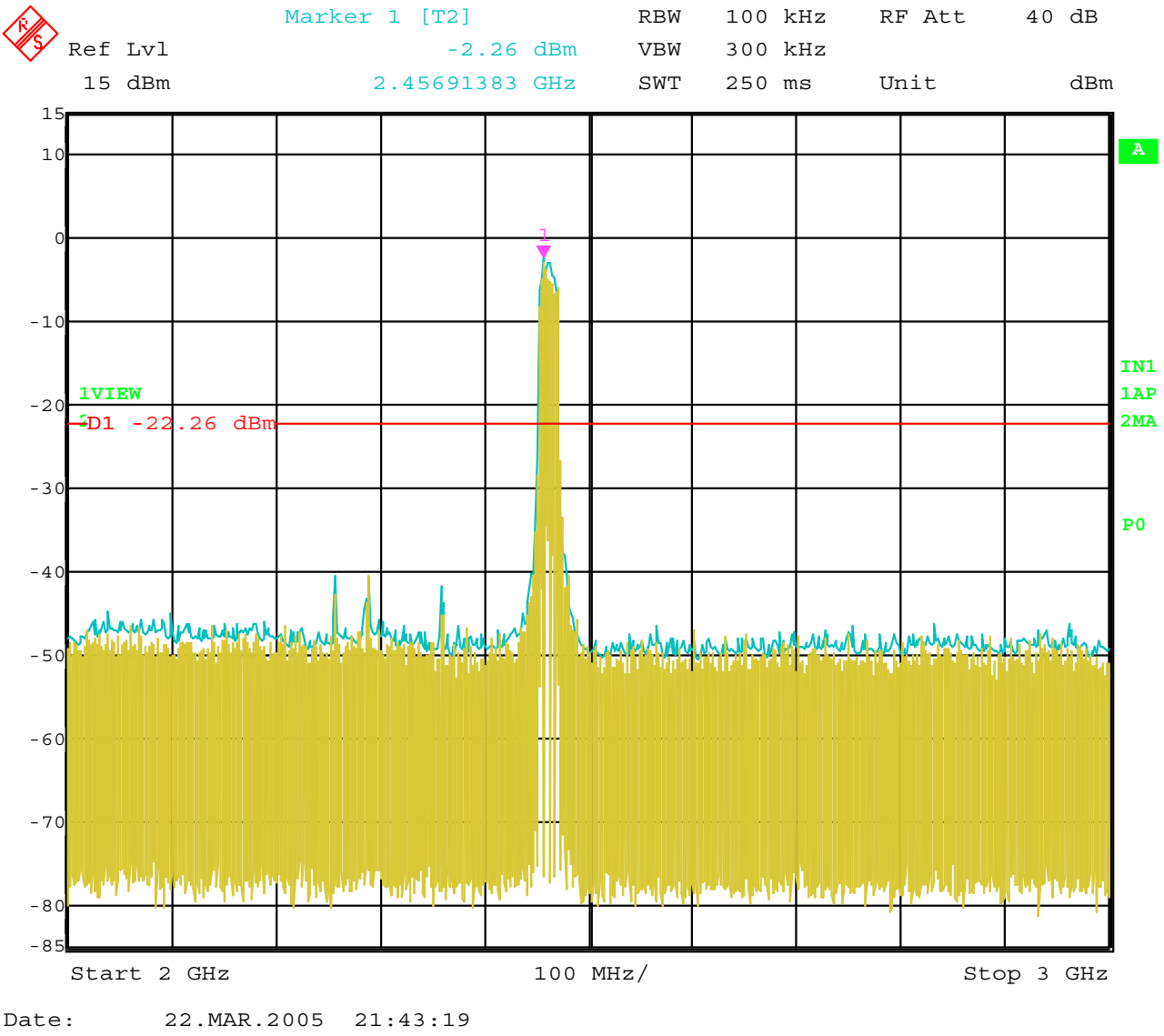

RF Antenna Conducted Test – Channel 6 – 802.11 g Mode – Phycomp Antenna – 3 GHz to 10 GHz



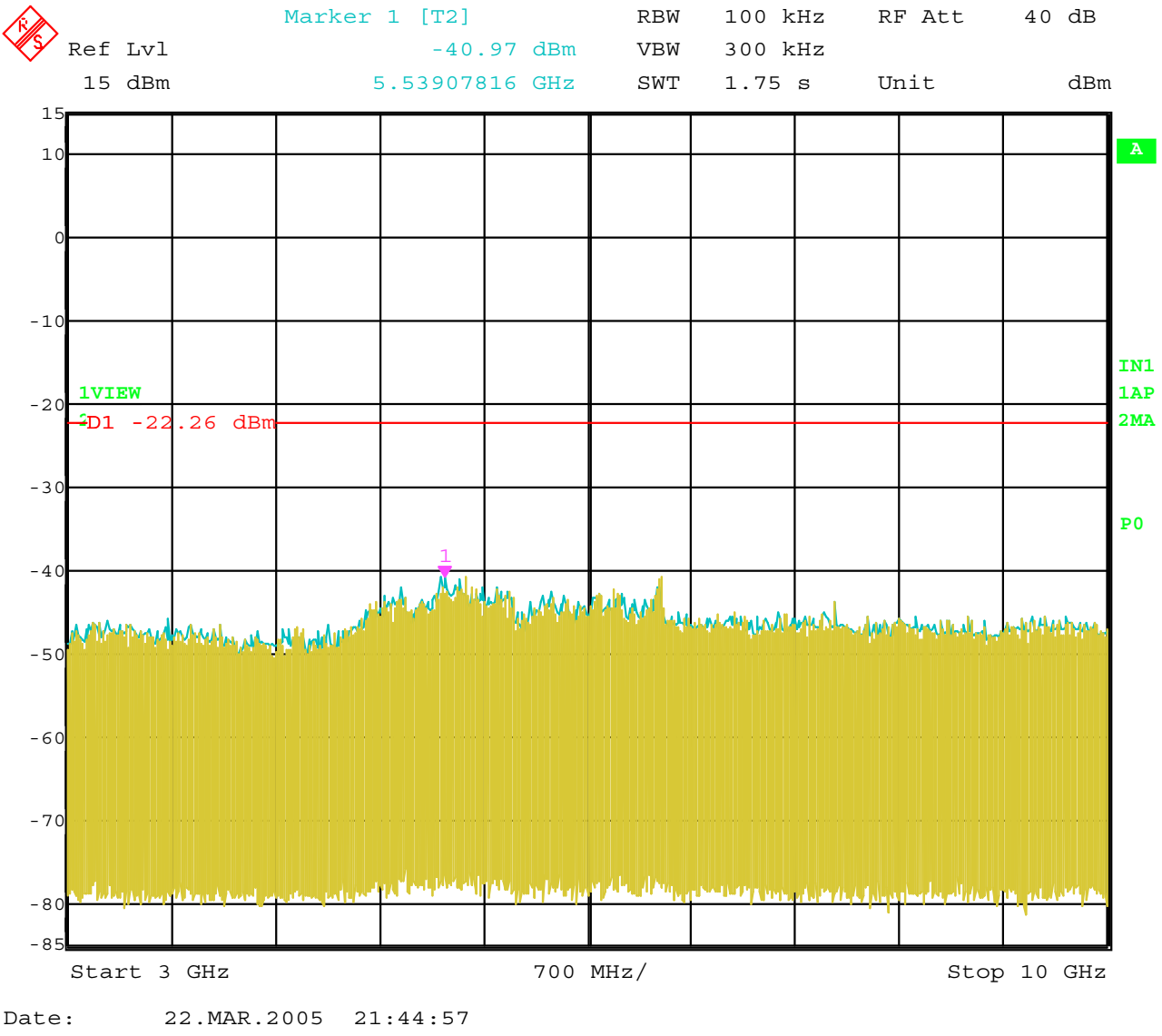

RF Antenna Conducted Test – Channel 6 – 802.11 g Mode – Phycomp Antenna – 10 GHz to 25 GHz



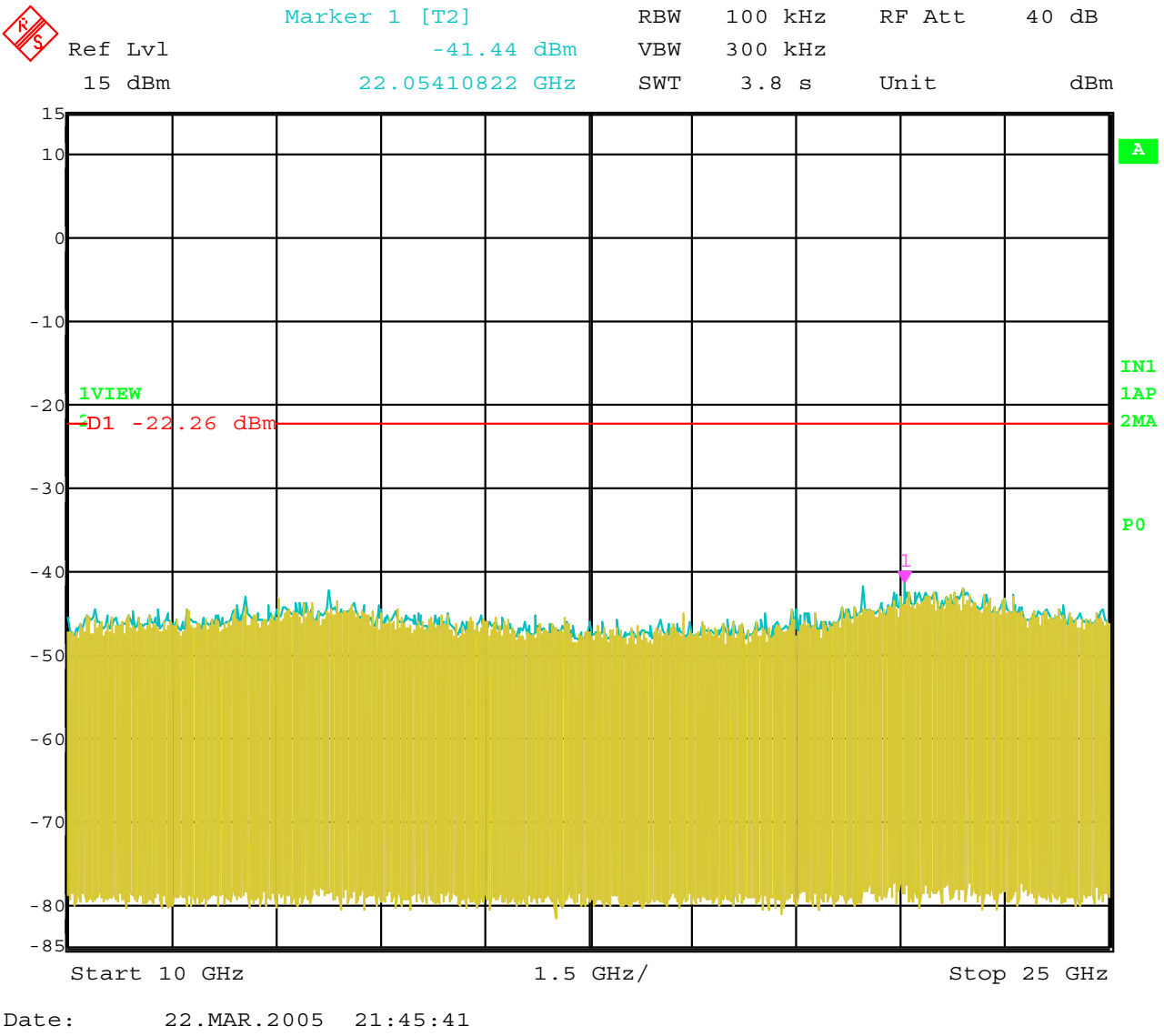

RF Antenna Conducted Test – Channel 11 – 802.11 g Mode – Phycomp Antenna – 2 MHz to 2 GHz




RF Antenna Conducted Test – Channel 11 – 802.11 g Mode – Phycomp Antenna – 2 GHz to 3 GHz




RF Antenna Conducted Test – Channel 11 – 802.11 g Mode – Phycomp Antenna – 3 GHz to 10 GHz




RF Antenna Conducted Test – Channel 11 – 802.11 g Mode – Phycomp Antenna – 10 GHz to 25 GHz

# *BAND EDGES*

# *DATA SHEETS*

**FCC 15.247**

Intel Corporation — Date: 3/17/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 1 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.61 dBm Avg. Power: 15.01 dBm

**Channel 6 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.44 dBm Avg. Power: 14.98 dBm

**Channel 11 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.53 dBm Avg. Power: 15.12 dBm

**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 2412 | 102.65 | V | -- | -- | Peak | 1.09 | 180 | Fundamental of Channel 1 |
| 2412 | 96.71 | V | -- | -- | Avg | 1.09 | 180 | @ 3 meters |
| | | | | | | | | |
| 2390 | 51.22 | V | 74 | -22.78 | Peak | 1.09 | 180 | **No** Marker Delta Method |
| 2390 | 39.16 | V | 54 | -14.84 | Avg | 1.09 | 180 | Method Used |
| | | | | | | | | |
| 2384.4 | 52.04 | V | 74 | -21.96 | Peak | 1.09 | 180 | **No** Marker Delta Method |
| 2384.4 | 41.77 | V | 54 | -12.23 | Avg | 1.09 | 180 | Method Used |
| | | | | | | | | |
| 2437 | 102.4 | V | -- | -- | Peak | 1.1 | 180 | Fundamental of Channel 6 |
| 2437 | 95.59 | V | -- | -- | Avg | 1.1 | 180 | @ 3 meters |
| | | | | | | | | |
| 2462 | 102.1 | V | -- | -- | Peak | 1.11 | 225 | Fundamental of Channel 11 |
| 2462 | 95.66 | V | -- | -- | Avg | 1.11 | 225 | @ 3 meters |
| | | | | | | | | |
| 2462.9 | 52.77 | V | 74 | -21.23 | Peak | 1.11 | 225 | **No** Marker Delta Method |
| 2462.9 | 40.94 | V | 54 | -13.06 | Avg | 1.11 | 225 | Method Used |
| | | | | | | | | |
| 2490.5 | 52.65 | V | 74 | -21.35 | Peak | 1.11 | 225 | **No** Marker Delta Method |
| 2491.3 | 41.29 | V | 54 | -12.71 | Avg | 1.11 | 225 | Method Used |
| | | | | | | | | |

**FCC 15.247**

Intel Corporation — Date: 3/17/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

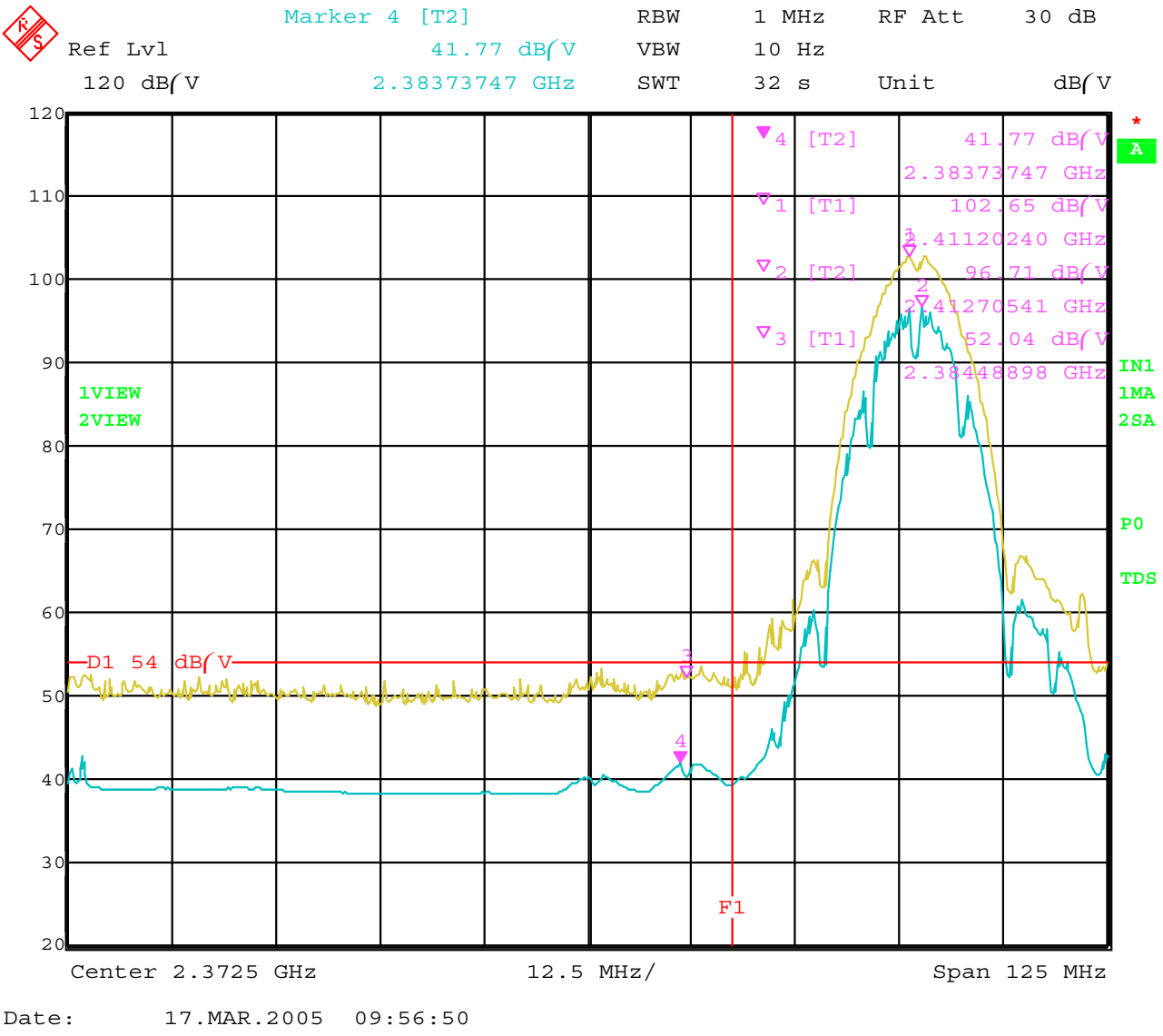
**Channel 1 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.61 dBm Avg. Power: 15.01 dBm

**Channel 6 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.44 dBm Avg. Power: 14.98 dBm

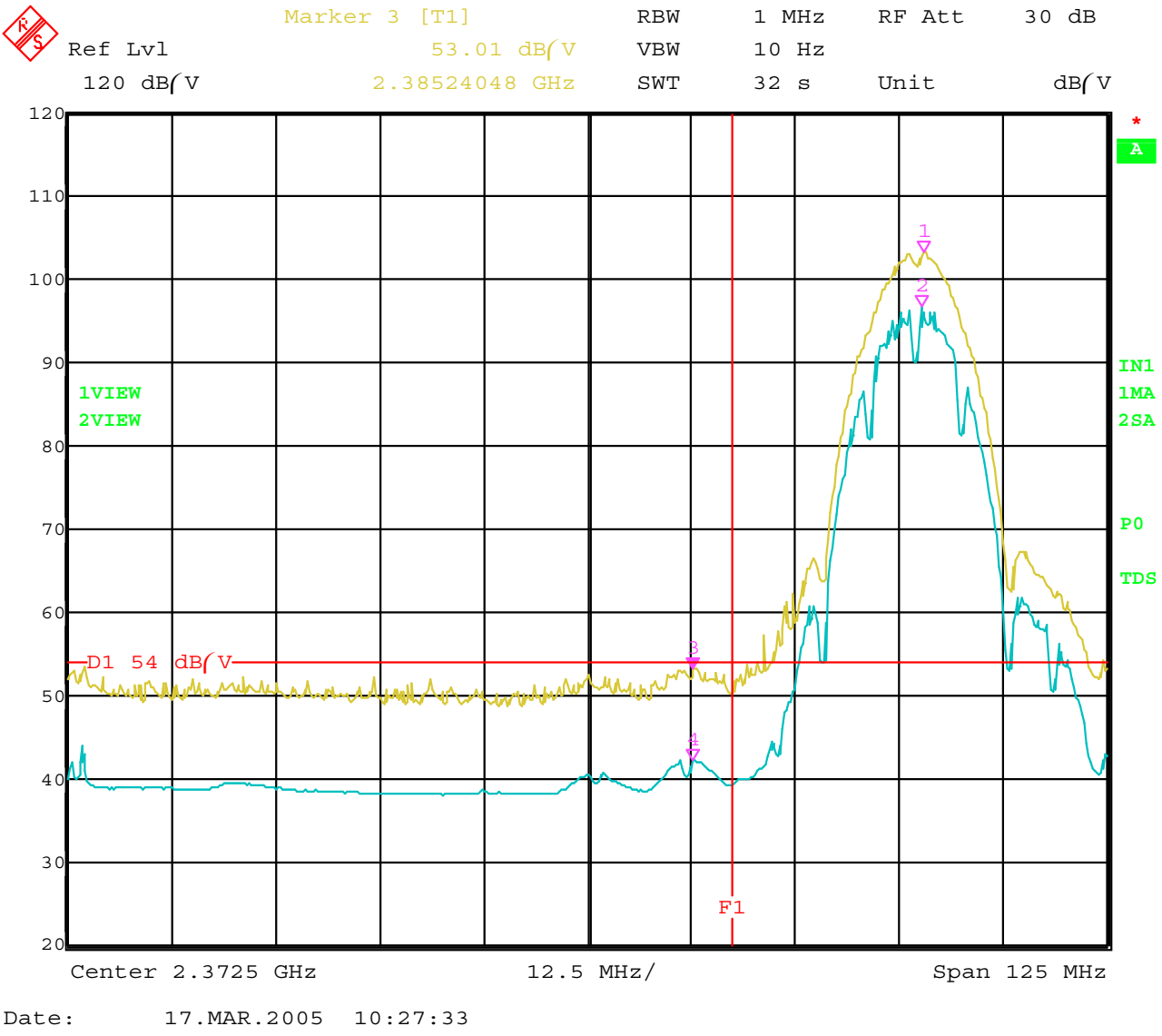
**Channel 11 - 802.11 b Mode** Gain : 30.5 Peak Power: 17.53 dBm Avg. Power: 15.12 dBm

**Transmit Mode**

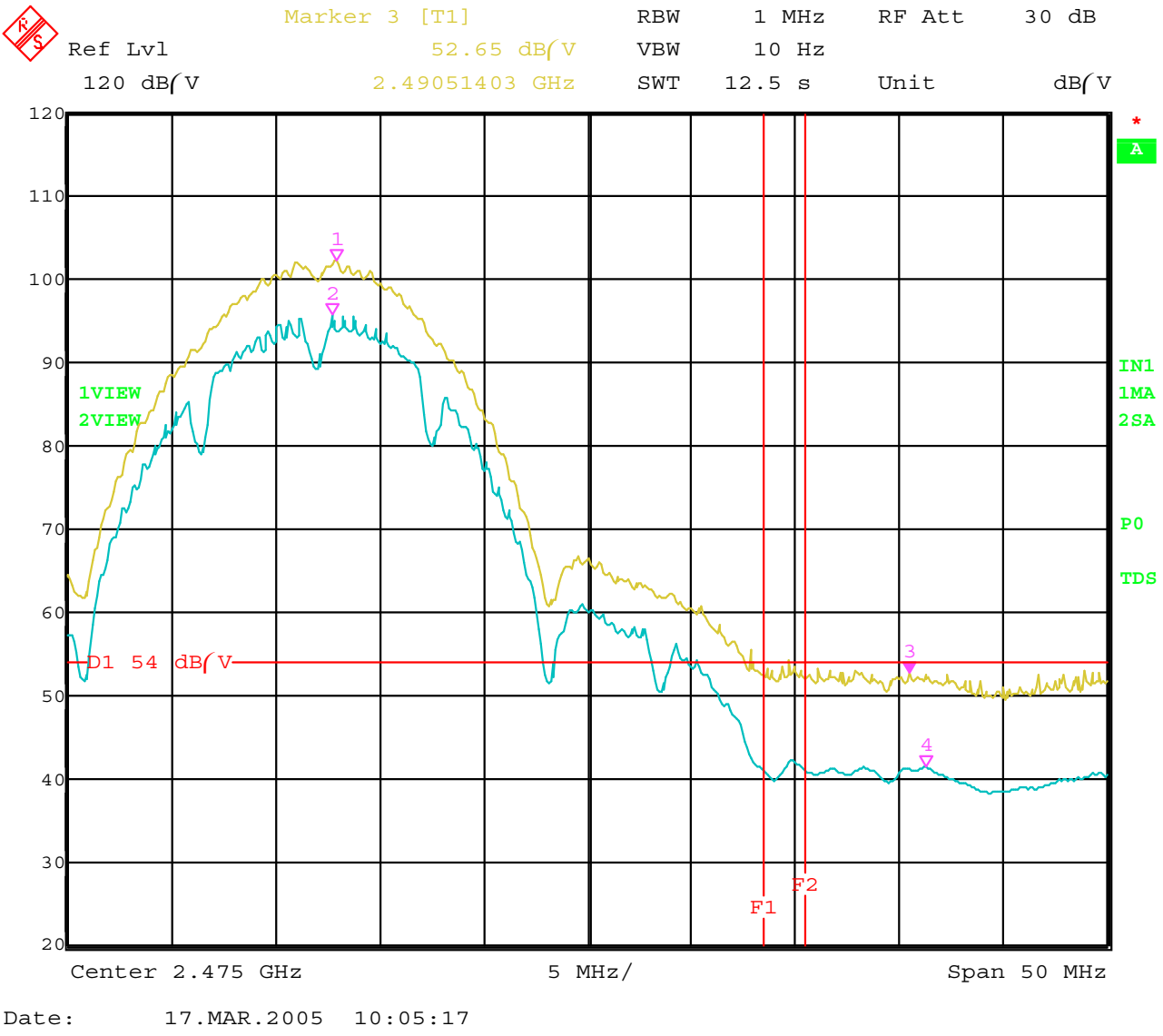
| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 2412 | 103.17 | H | -- | -- | Peak | 1.02 | 225 | Fundamental of Channel 1 |
| 2412 | 96.69 | H | -- | -- | Avg | 1.02 | 225 | @ 3 meters |
| | | | | | | | | |
| 2390 | 50.24 | H | 74 | -23.76 | Peak | 1.02 | 225 | **No** Marker Delta Method |
| 2390 | 39.16 | H | 54 | -14.84 | Avg | 1.02 | 225 | Method Used |
| | | | | | | | | |
| 2385.2 | 53.01 | H | 74 | -20.99 | Peak | 1.02 | 225 | **No** Marker Delta Method |
| 2385.2 | 42.19 | H | 54 | -11.81 | Avg | 1.02 | 225 | Method Used |
| | | | | | | | | |
| 2437 | 103.01 | H | -- | -- | Peak | 1.01 | 225 | Fundamental of Channel 6 |
| 2437 | 96.7 | H | -- | -- | Avg | 1.01 | 225 | @ 3 meters |
| | | | | | | | | |
| 2462 | 102.37 | H | -- | -- | Peak | 2.46 | 225 | Fundamental of Channel 11 |
| 2462 | 95.94 | H | -- | -- | Avg | 2.46 | 225 | @ 3 meters |
| | | | | | | | | |
| 2485.3 | 51.29 | H | 74 | -22.71 | Peak | 2.46 | 225 | **No** Marker Delta Method |
| 2484.8 | 40.15 | H | 54 | -13.85 | Peak | 2.46 | 225 | Method Used |
| | | | | | | | | |
| 2488.2 | 52.96 | H | 74 | -21.04 | Peak | 2.46 | 225 | **No** Marker Delta Method |
| 2490.3 | 40.54 | H | 54 | -13.46 | Peak | 2.46 | 225 | Method Used |
| | | | | | | | | |



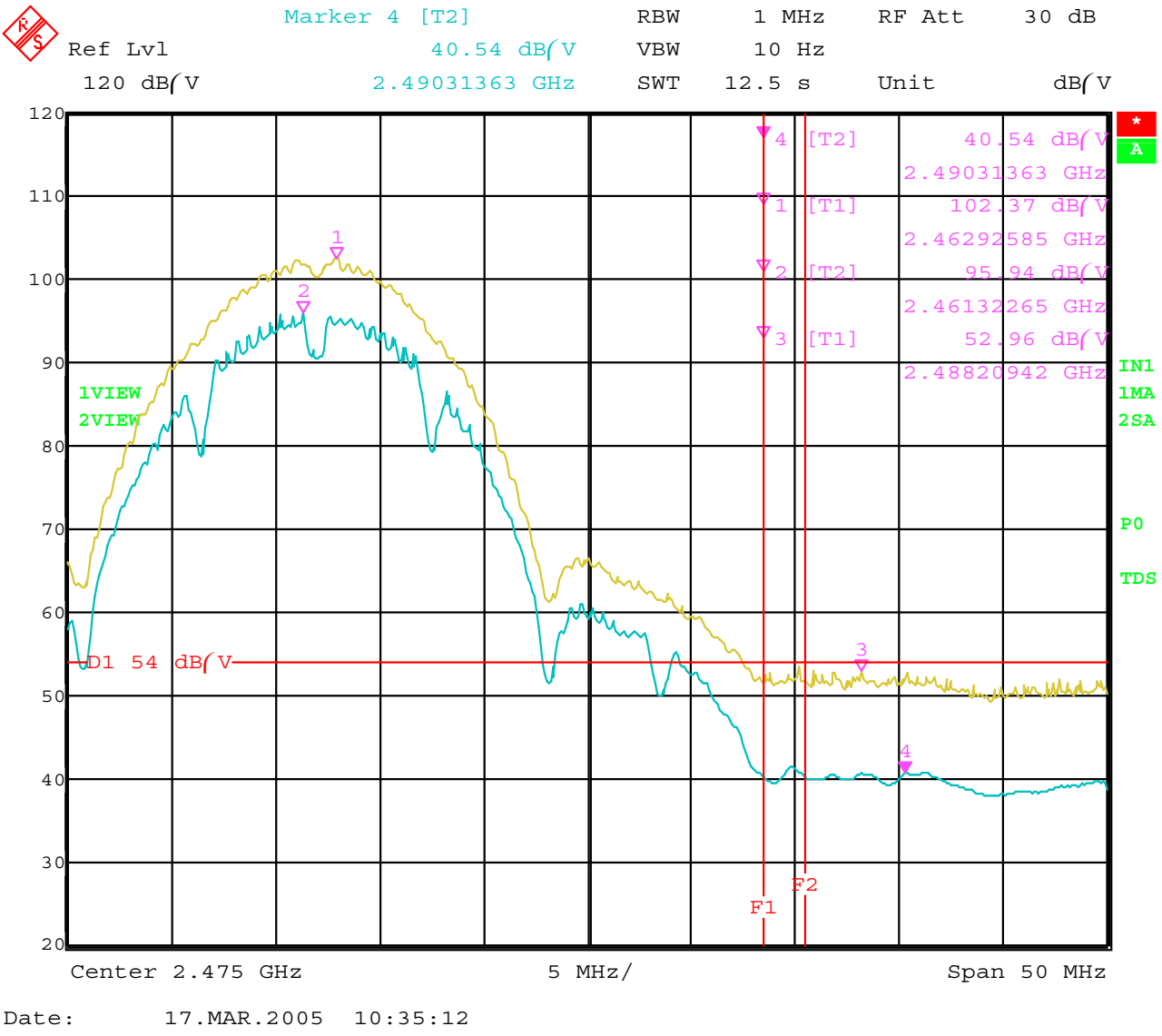

Band Edge – Channel 1 – Vertical Polarization – 802.11 b Mode – Phycomp Antenna




Band Edge – Channel 1 – Horizontal Polarization – 802.11 b Mode – Phycomp Antenna




Band Edge – Channel 11 – Vertical Polarization – 802.11 b Mode – Phycomp Antenna




Band Edge – Channel 11 – Horizontal Polarization – 802.11 b Mode – Phycomp Antenna

**FCC 15.247**

Intel Corporation — Date: 3/17/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

**Channel 1 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.50 dBm Avg. Power: 9.93 dBm

**Channel 6 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

**Channel 11 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

**Transmit Mode**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 2412 | 98.56 | V | -- | -- | Peak | 1.09 | 180 | Fundamental of Channel 1 |
| 2412 | 84.98 | V | -- | -- | Avg | 1.09 | 180 | @ 3 meters |
| | | | | | | | | |
| 2390 | 56.24 | V | 74 | -17.76 | Peak | 1.09 | 180 | **No** Marker Delta Method |
| 2390 | 43.01 | V | 54 | -10.99 | Avg | 1.09 | 180 | Method Used |
| | | | | | | | | |
| 2312.1 | 55.22 | V | 74 | -18.78 | Peak | 1.09 | 180 | **No** Marker Delta Method |
| 2311.7 | 46.27 | V | 54 | -7.73 | Avg | 1.09 | 180 | Method Used |
| | | | | | | | | |
| 2437 | 98.46 | V | -- | -- | Peak | 2.25 | 270 | Fundamental of Channel 6 |
| 2437 | 83.79 | V | -- | -- | Avg | 2.25 | 270 | @ 3 meters |
| | | | | | | | | |
| 2462 | 96.35 | V | -- | -- | Peak | 2.43 | 135 | Fundamental of Channel 11 |
| 2462 | 82.83 | V | -- | -- | Avg | 2.43 | 135 | @ 3 meters |
| | | | | | | | | |
| 2483.5 | 57.19 | V | 74 | -16.81 | Peak | 2.43 | 135 | **No** Marker Delta Method |
| 2483.5 | 42.51 | V | 54 | -11.49 | Avg | 2.43 | 135 | Method Used |
| | | | | | | | | |
| 2485.5 | 54.06 | V | 74 | -19.94 | Peak | 2.43 | 135 | **No** Marker Delta Method |
| 2486.7 | 41.31 | V | 54 | -12.69 | Avg | 2.43 | 135 | Method Used |
| | | | | | | | | |

**FCC 15.247**

Intel Corporation — Date: 3/17/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter — Lab: B

Model: WM3B2200BG — Tested By: Kyle Fujimoto

Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

**With Phycomp Antenna**

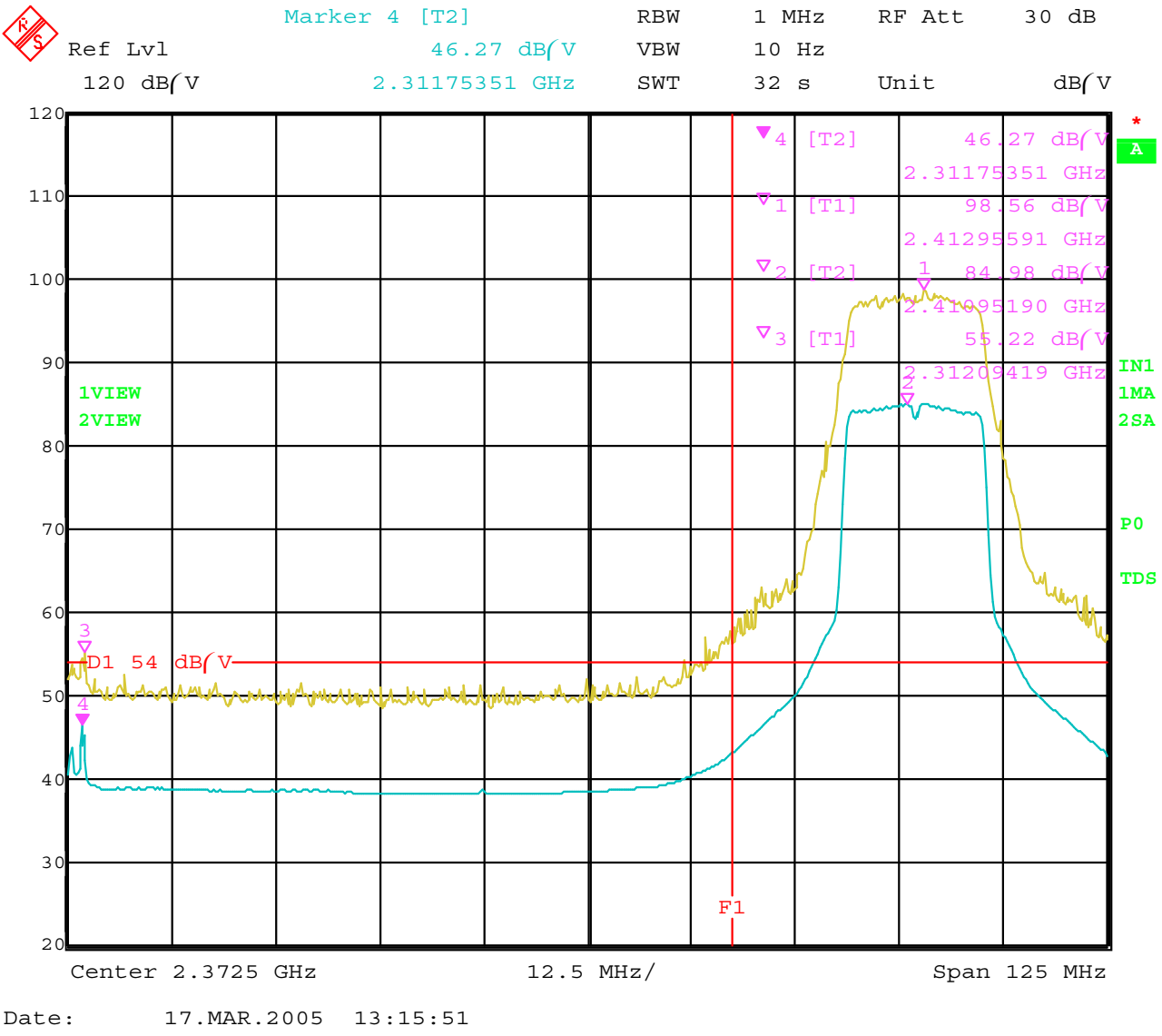
**Channel 1 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.50 dBm Avg. Power: 9.93 dBm

**Channel 6 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

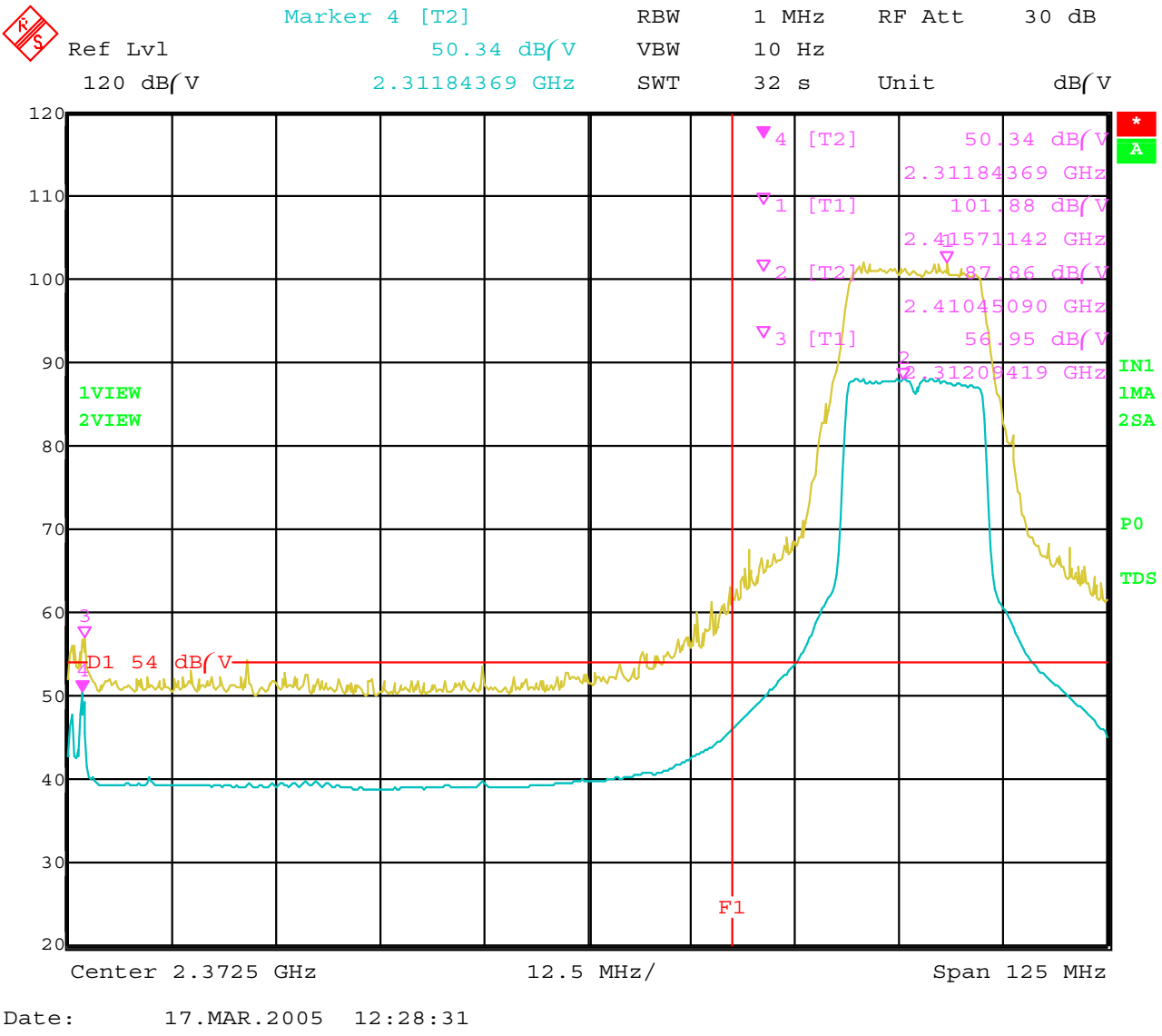
**Channel 11 - 802.11 g Mode** Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

**Transmit Mode**

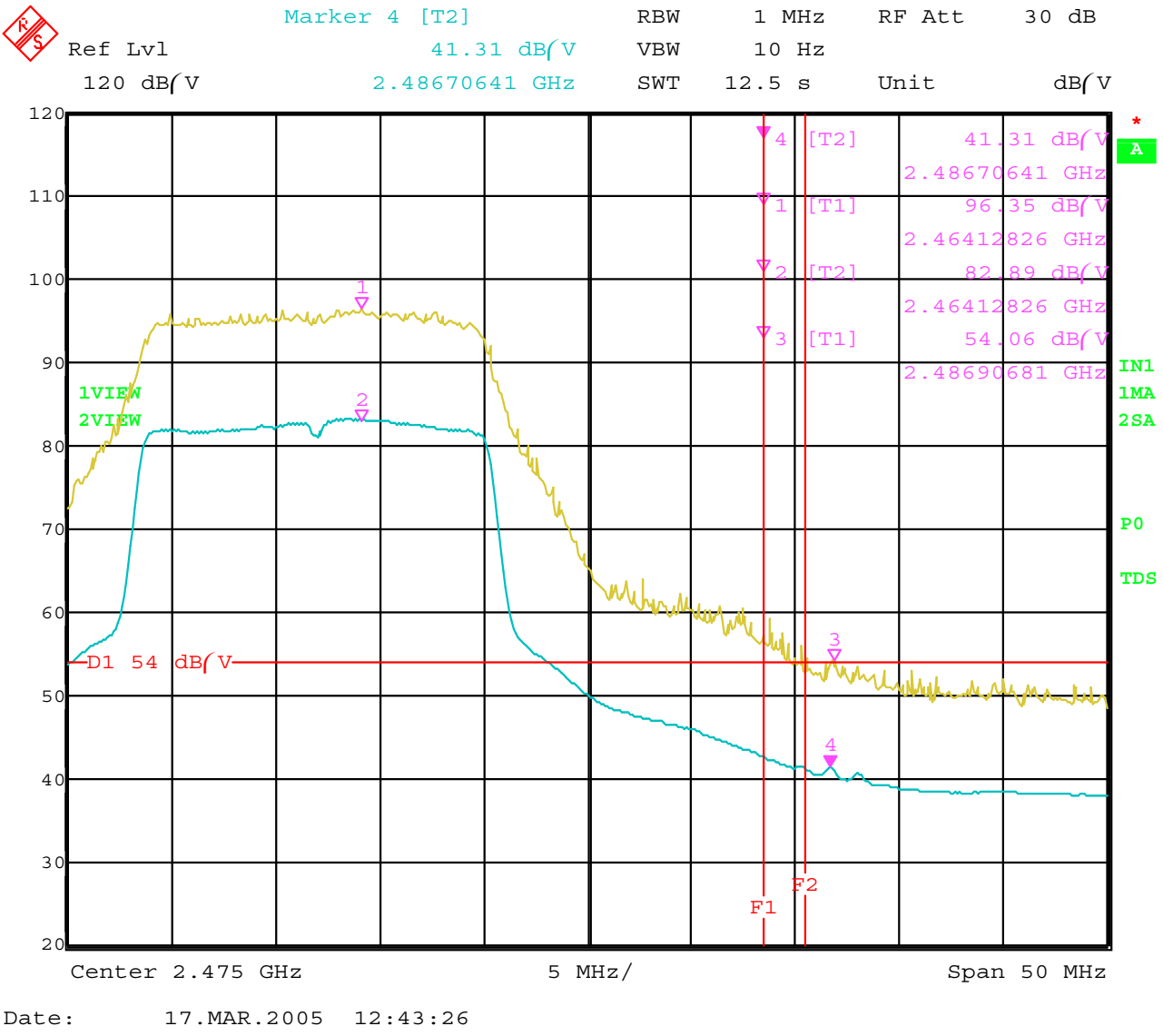
| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 2412 | 101.88 | H | -- | -- | Peak | 1.03 | 135 | Fundamental of Channel 1 |
| 2412 | 87.86 | H | -- | -- | Avg | 1.03 | 135 | @ 3 meters |
| | | | | | | | | |
| 2390 | 61.55 | H | 74 | -12.45 | Peak | 1.03 | 135 | **No** Marker Delta Method |
| 2390 | 45.89 | H | 54 | -8.11 | Avg | 1.03 | 135 | Method Used |
| | | | | | | | | |
| 2312.1 | 56.95 | H | 74 | -17.05 | Peak | 1.03 | 135 | **No** Marker Delta Method |
| 2311.8 | 50.34 | H | 54 | -3.66 | Avg | 1.03 | 135 | Method Used |
| | | | | | | | | |
| 2437 | 100.71 | H | -- | -- | Peak | 1.02 | 225 | Fundamental of Channel 6 |
| 2437 | 87.59 | H | -- | -- | Avg | 1.02 | 225 | @ 3 meters |
| | | | | | | | | |
| 2462 | 101.83 | H | -- | -- | Peak | 1 | 135 | Fundamental of Channel 11 |
| 2462 | 87.46 | H | -- | -- | Avg | 1 | 135 | @ 3 meters |
| | | | | | | | | |
| 2483.5 | 62.19 | H | 74 | -11.81 | Peak | 1 | 135 | **No** Marker Delta Method |
| 2483.5 | 46.02 | H | 54 | -7.98 | Peak | 1 | 135 | Method Used |
| | | | | | | | | |
| 2487.8 | 58.58 | H | 74 | -15.42 | Peak | 1 | 135 | **No** Marker Delta Method |
| 2486.7 | 44.77 | H | 54 | -9.23 | Peak | 1 | 135 | Method Used |
| | | | | | | | | |



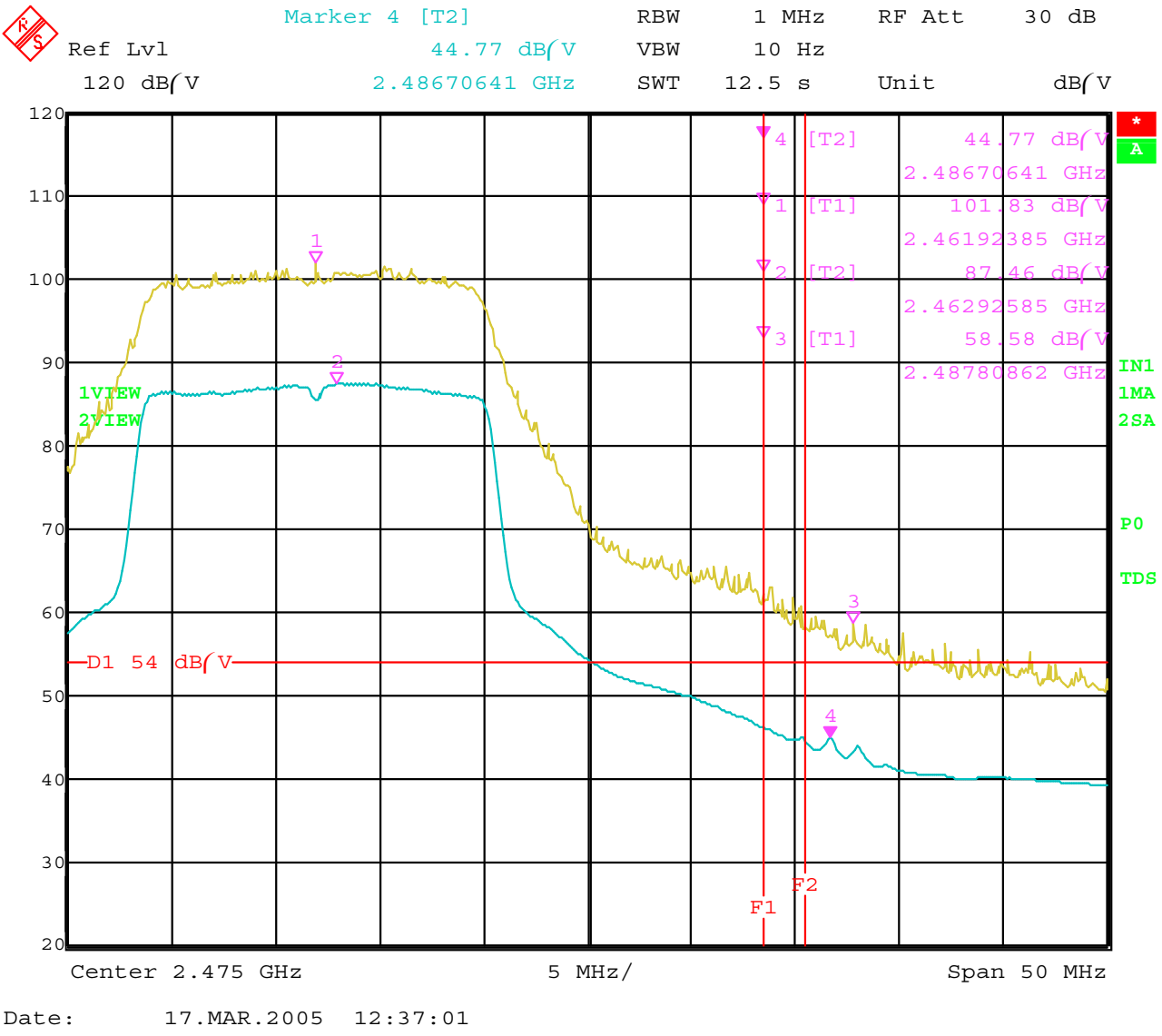

Band Edge – Channel 1 – Vertical Polarization – 802.11 g Mode – Phycomp Antenna




Band Edge – Channel 1 – Horizontal Polarization – 802.11 g Mode – Phycomp Antenna



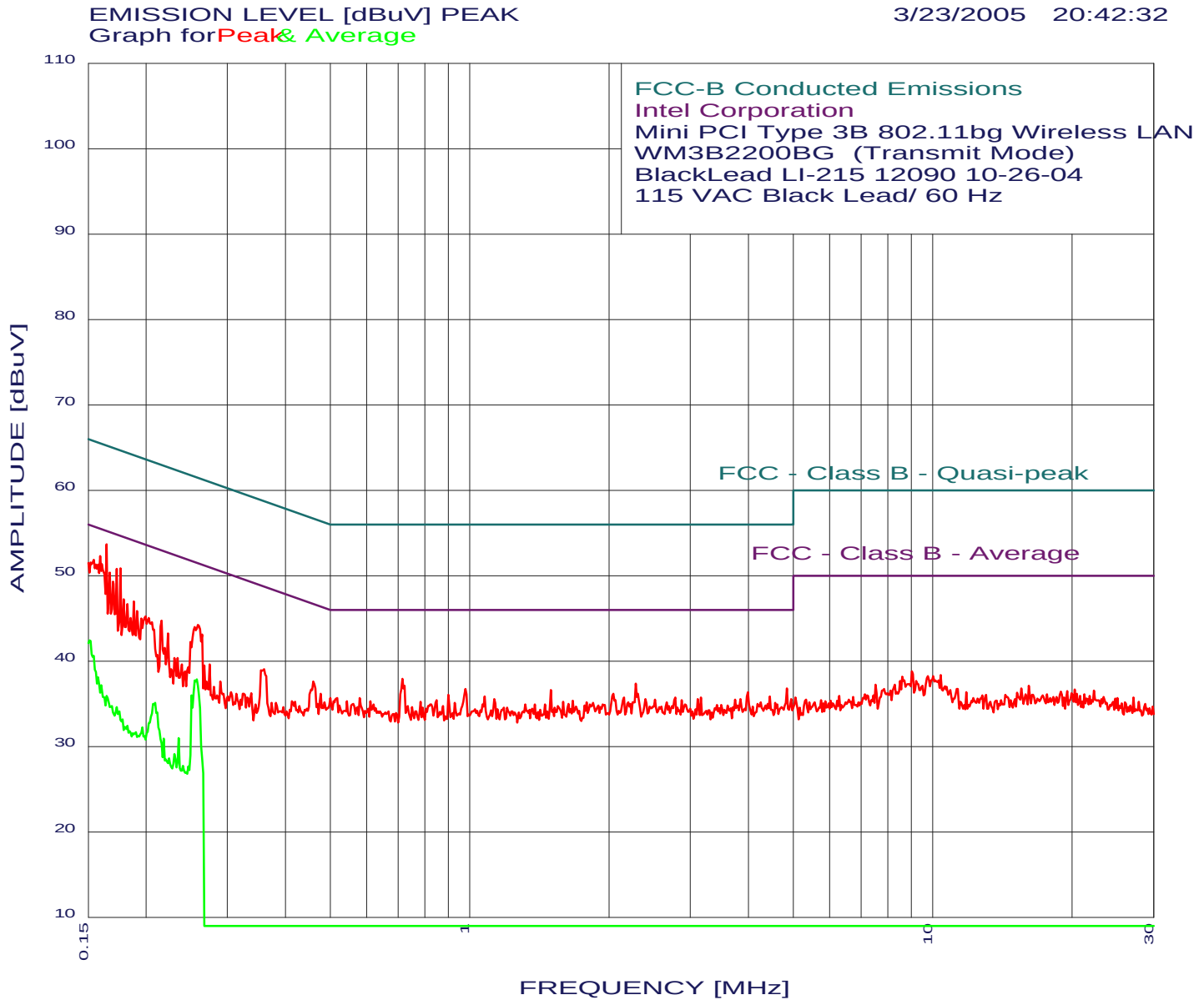

Band Edge – Channel 11 – Vertical Polarization – 802.11 g Mode – Phycomp Antenna




Band Edge – Channel 11 – Horizontal Polarization – 802.11 g Mode – Phycomp Antenna

# *CONDUCTED EMISSIONS*

# *DATA SHEETS*




COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/23/2005 20:42:32

Intel Corporation
Mini PCI Type 3B 802.11bg Wireless LAN
WM3B2200BG (Transmit Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

---

40 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 0.164 | 53.66 | 55.25 | -1.59* |
| 2 | 0.159 | 52.26 | 55.51 | -3.26* |
| 3 | 0.176 | 50.85 | 54.68 | -3.82* |
| 4 | 0.154 | 51.86 | 55.78 | -3.92* |
| 5 | 0.173 | 50.75 | 54.81 | -4.06* |
| 6 | 0.150 | 51.46 | 56.00 | -4.54* |
| 7 | 0.167 | 50.35 | 55.11 | -4.76* |
| 8 | 0.170 | 49.25 | 54.98 | -5.73* |
| 9 | 0.188 | 46.95 | 54.10 | -7.16* |
| 10 | 0.259 | 44.19 | 51.47 | -7.27 |
| 11 | 0.179 | 47.25 | 54.54 | -7.29* |
| 12 | 0.183 | 46.65 | 54.37 | -7.72* |
| 13 | 0.716 | 37.89 | 46.00 | -8.11 |
| 14 | 0.192 | 45.84 | 53.97 | -8.13* |
| 15 | 0.216 | 44.73 | 52.96 | -8.23* |
| 16 | 0.200 | 45.24 | 53.62 | -8.38* |
| 17 | 2.286 | 37.35 | 46.00 | -8.65 |
| 18 | 0.196 | 44.94 | 53.80 | -8.86* |
| 19 | 0.459 | 37.58 | 46.71 | -9.13 |
| 20 | 0.185 | 45.05 | 54.24 | -9.19* |
| 21 | 4.851 | 36.80 | 46.00 | -9.20 |
| 22 | 0.979 | 36.72 | 46.00 | -9.28 |
| 23 | 1.496 | 36.62 | 46.00 | -9.38 |
| 24 | 0.223 | 43.22 | 52.70 | -9.47* |
| 25 | 3.987 | 36.32 | 46.00 | -9.68 |
| 26 | 0.360 | 39.02 | 48.73 | -9.72 |
| 27 | 2.044 | 36.13 | 46.00 | -9.87 |
| 28 | 0.899 | 36.01 | 46.00 | -9.99 |
| 29 | 4.456 | 35.87 | 46.00 | -10.13 |
| 30 | 1.077 | 35.84 | 46.00 | -10.16 |
| 31 | 0.476 | 36.18 | 46.40 | -10.23 |
| 32 | 2.156 | 35.74 | 46.00 | -10.26 |
| 33 | 3.158 | 35.74 | 46.00 | -10.26 |
| 34 | 2.781 | 35.70 | 46.00 | -10.30 |
| 35 | 0.580 | 35.68 | 46.00 | -10.32 |
| 36 | 0.518 | 35.67 | 46.00 | -10.33 |
| 37 | 0.500 | 35.67 | 46.01 | -10.33 |
| 38 | 2.397 | 35.56 | 46.00 | -10.44 |
| 39 | 1.130 | 35.55 | 46.00 | -10.45 |
| 40 | 3.107 | 35.53 | 46.00 | -10.47 |

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* Please See the Average Readings on the Next Page and on the Plot

COMPATIBLE ELECTRONICS

3/23/2005 20:42:32

Intel Corporation
Mini PCI Type 3B 802.11bg Wireless LAN
WM3B2200BG (Transmit Mode)
With Phycomp Antenna
TEST ENGINEER :Benigno Chavez

---

27 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.10 dB, Curve : Average

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 0.151 | 42.41 | 55.95 | -13.54 |
| 2 | 0.258 | 37.83 | 51.51 | -13.68 |
| 3 | 0.255 | 37.74 | 51.60 | -13.86 |
| 4 | 0.150 | 42.10 | 56.00 | -13.90 |
| 5 | 0.154 | 40.61 | 55.78 | -15.17 |
| 6 | 0.251 | 35.97 | 51.73 | -15.76 |
| 7 | 0.157 | 38.08 | 55.60 | -17.52 |
| 8 | 0.210 | 35.06 | 53.23 | -18.16 |
| 9 | 0.160 | 37.15 | 55.47 | -18.32 |
| 10 | 0.164 | 35.89 | 55.25 | -19.36 |
| 11 | 0.173 | 34.59 | 54.81 | -20.22 |
| 12 | 0.169 | 34.72 | 55.03 | -20.30 |
| 13 | 0.175 | 34.09 | 54.72 | -20.63 |
| 14 | 0.235 | 30.96 | 52.25 | -21.29 |
| 15 | 0.178 | 33.13 | 54.59 | -21.46 |
| 16 | 0.197 | 32.21 | 53.75 | -21.54 |
| 17 | 0.183 | 32.43 | 54.37 | -21.94 |
| 18 | 0.219 | 30.89 | 52.87 | -21.98 |
| 19 | 0.180 | 32.27 | 54.50 | -22.23 |
| 20 | 0.190 | 31.64 | 54.01 | -22.37 |
| 21 | 0.184 | 31.76 | 54.28 | -22.53 |
| 22 | 0.187 | 31.53 | 54.15 | -22.62 |
| 23 | 0.230 | 29.07 | 52.43 | -23.37 |
| 24 | 0.224 | 28.62 | 52.65 | -24.03 |
| 25 | 0.247 | 27.64 | 51.86 | -24.22 |
| 26 | 0.221 | 28.45 | 52.78 | -24.33 |
| 27 | 0.240 | 27.72 | 52.08 | -24.36 |

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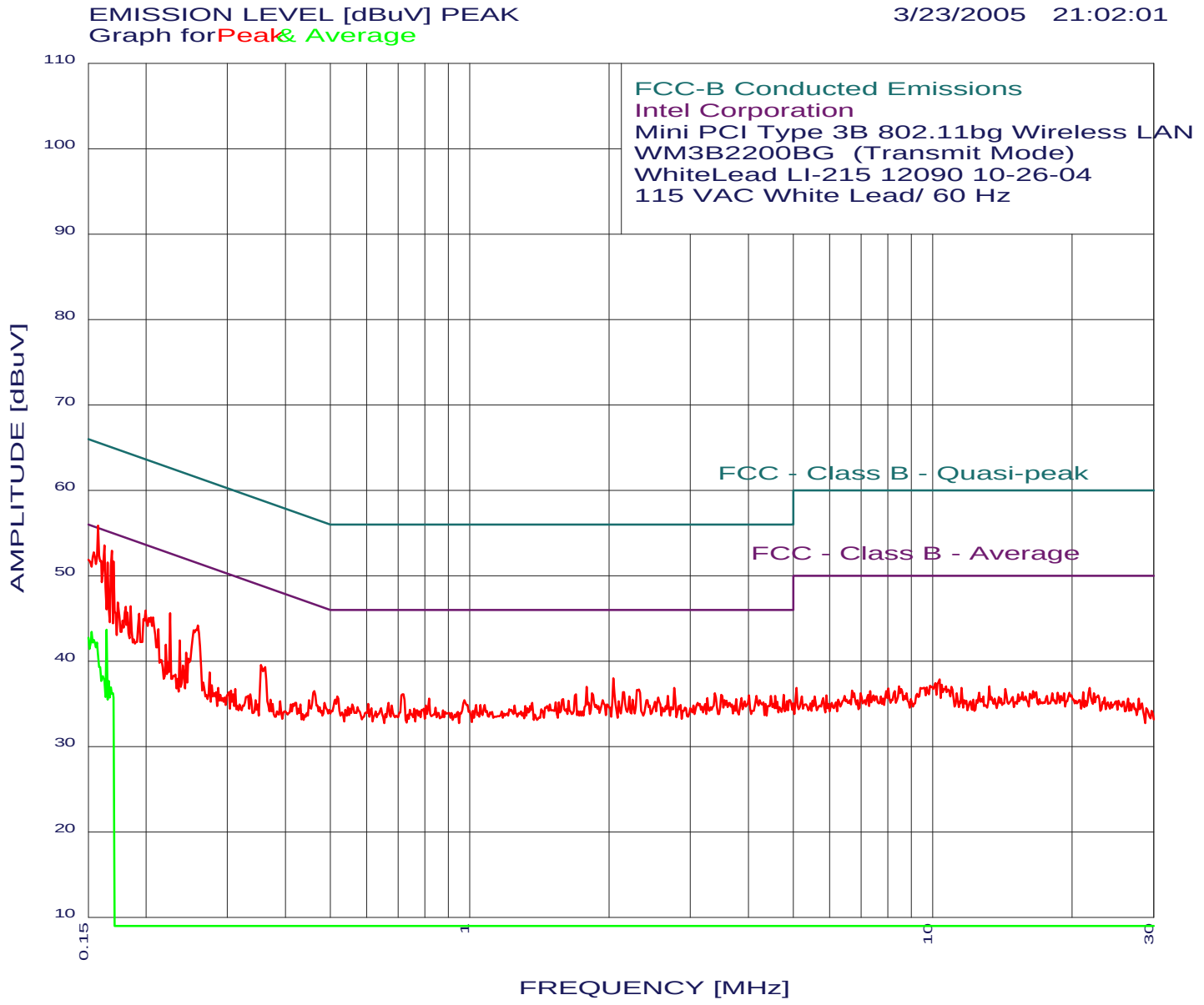


COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/23/2005 21:02:01

Intel Corporation
Mini PCI Type 3B 802.11bg Wireless LAN
WM3B2200BG (Transmit Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

---

40 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 0.157 | 55.84 | 55.60 | 0.24* |
| 2 | 0.162 | 53.54 | 55.34 | -1.80* |
| 3 | 0.169 | 52.94 | 55.03 | -2.09* |
| 4 | 0.154 | 52.75 | 55.78 | -3.03* |
| 5 | 0.170 | 51.64 | 54.94 | -3.31 |
| 6 | 0.165 | 51.54 | 55.20 | -3.66* |
| 7 | 0.150 | 51.85 | 56.00 | -4.15* |
| 8 | 0.226 | 45.59 | 52.61 | -7.02 |
| 9 | 0.259 | 44.16 | 51.47 | -7.30 |
| 10 | 0.200 | 45.92 | 53.62 | -7.70 |
| 11 | 0.185 | 46.43 | 54.24 | -7.81 |
| 12 | 0.174 | 46.83 | 54.77 | -7.93 |
| 13 | 2.044 | 37.94 | 46.00 | -8.06 |
| 14 | 0.181 | 46.33 | 54.46 | -8.13 |
| 15 | 0.194 | 45.52 | 53.88 | -8.36 |
| 16 | 0.183 | 45.63 | 54.37 | -8.74 |
| 17 | 1.790 | 36.99 | 46.00 | -9.01 |
| 18 | 2.766 | 36.83 | 46.00 | -9.17 |
| 19 | 2.322 | 36.68 | 46.00 | -9.32 |
| 20 | 0.354 | 39.50 | 48.87 | -9.36 |
| 21 | 0.213 | 43.71 | 53.09 | -9.39 |
| 22 | 2.156 | 36.36 | 46.00 | -9.64 |
| 23 | 1.840 | 36.21 | 46.00 | -9.79 |
| 24 | 3.383 | 36.19 | 46.00 | -9.81 |
| 25 | 0.237 | 42.38 | 52.21 | -9.83 |
| 26 | 0.720 | 36.10 | 46.00 | -9.90 |
| 27 | 1.699 | 36.08 | 46.00 | -9.92 |
| 28 | 3.492 | 36.01 | 46.00 | -9.99 |
| 29 | 4.774 | 36.00 | 46.00 | -10.00 |
| 30 | 4.008 | 35.96 | 46.00 | -10.04 |
| 31 | 2.679 | 35.92 | 46.00 | -10.08 |
| 32 | 4.576 | 35.89 | 46.00 | -10.11 |
| 33 | 4.480 | 35.89 | 46.00 | -10.11 |
| 34 | 4.159 | 35.88 | 46.00 | -10.12 |
| 35 | 0.518 | 35.87 | 46.00 | -10.13 |
| 36 | 2.214 | 35.86 | 46.00 | -10.14 |
| 37 | 0.461 | 36.48 | 46.67 | -10.19 |
| 38 | 2.554 | 35.70 | 46.00 | -10.30 |
| 39 | 3.260 | 35.68 | 46.00 | -10.32 |
| 40 | 3.862 | 35.65 | 46.00 | -10.35 |

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* Please See the Average Readings on the Next Page and on the Plot

COMPATIBLE ELECTRONICS

3/23/2005 21:02:01

Intel Corporation
Mini PCI Type 3B 802.11bg Wireless LAN
WM3B2200BG (Transmit Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

---

8 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.10 dB, Curve : Average

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 0.164 | 43.63 | 55.25 | -11.62 |
| 2 | 0.152 | 43.41 | 55.86 | -12.46 |
| 3 | 0.154 | 42.50 | 55.78 | -13.28 |
| 4 | 0.150 | 42.69 | 56.00 | -13.31 |
| 5 | 0.157 | 42.15 | 55.64 | -13.49 |
| 6 | 0.162 | 38.24 | 55.38 | -17.14 |
| 7 | 0.166 | 37.67 | 55.16 | -17.49 |
| 8 | 0.168 | 36.88 | 55.07 | -18.19 |

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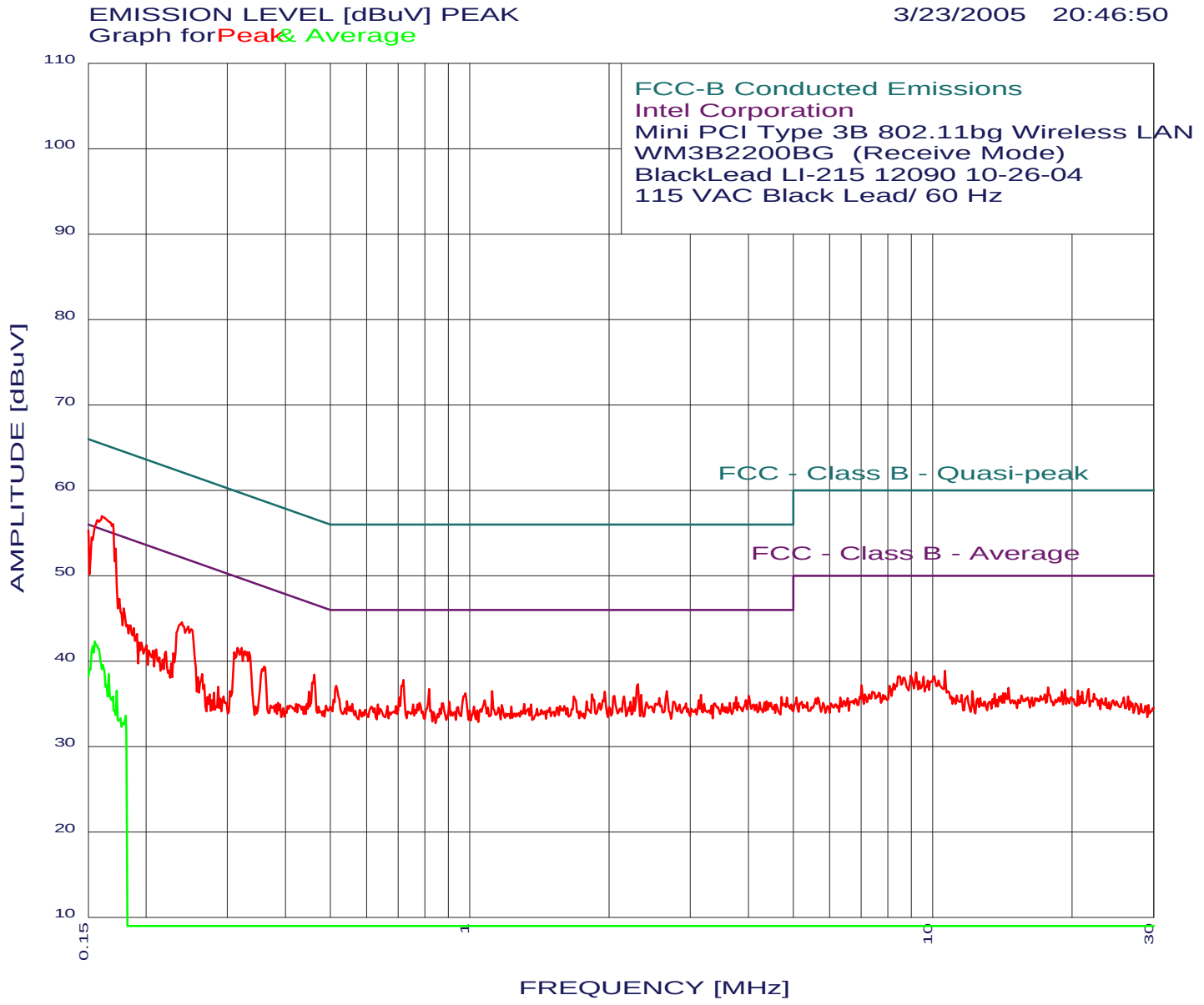


COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/23/2005 20:46:50

Intel Corporation
Mini PCI Type 3B 802.11bg Wireless LAN
WM3B2200BG (Receive Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

---

40 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 0.161 | 56.96 | 55.43 | 1.53* |
| 2 | 0.150 | 55.26 | 56.00 | -0.74* |
| 3 | 0.172 | 53.15 | 54.86 | -1.70* |
| 4 | 0.175 | 47.25 | 54.72 | -7.47* |
| 5 | 0.239 | 44.51 | 52.12 | -7.61 |
| 6 | 0.720 | 37.79 | 46.00 | -8.21 |
| 7 | 0.315 | 41.55 | 49.84 | -8.28 |
| 8 | 0.461 | 38.38 | 46.67 | -8.29 |
| 9 | 0.334 | 41.04 | 49.35 | -8.31 |
| 10 | 0.327 | 41.14 | 49.53 | -8.38 |
| 11 | 0.179 | 46.15 | 54.54 | -8.39* |
| 12 | 2.310 | 37.25 | 46.00 | -8.75 |
| 13 | 0.516 | 37.07 | 46.00 | -8.93 |
| 14 | 0.818 | 36.70 | 46.00 | -9.30 |
| 15 | 0.360 | 39.32 | 48.73 | -9.42 |
| 16 | 2.665 | 36.49 | 46.00 | -9.51 |
| 17 | 1.118 | 36.44 | 46.00 | -9.56 |
| 18 | 1.960 | 36.41 | 46.00 | -9.59 |
| 19 | 0.979 | 36.22 | 46.00 | -9.78 |
| 20 | 1.840 | 36.09 | 46.00 | -9.91 |
| 21 | 2.346 | 36.06 | 46.00 | -9.94 |
| 22 | 3.158 | 36.04 | 46.00 | -9.96 |
| 23 | 2.055 | 35.93 | 46.00 | -10.07 |
| 24 | 4.008 | 35.92 | 46.00 | -10.08 |
| 25 | 1.680 | 35.86 | 46.00 | -10.14 |
| 26 | 2.156 | 35.84 | 46.00 | -10.16 |
| 27 | 3.761 | 35.80 | 46.00 | -10.20 |
| 28 | 4.722 | 35.79 | 46.00 | -10.21 |
| 29 | 2.262 | 35.75 | 46.00 | -10.25 |
| 30 | 4.851 | 35.70 | 46.00 | -10.30 |
| 31 | 2.568 | 35.68 | 46.00 | -10.32 |
| 32 | 0.449 | 36.38 | 46.89 | -10.51 |
| 33 | 1.077 | 35.44 | 46.00 | -10.56 |
| 34 | 3.945 | 35.41 | 46.00 | -10.59 |
| 35 | 1.790 | 35.28 | 46.00 | -10.72 |
| 36 | 0.544 | 35.28 | 46.00 | -10.72 |
| 37 | 4.384 | 35.26 | 46.00 | -10.74 |
| 38 | 2.226 | 35.24 | 46.00 | -10.76 |
| 39 | 0.904 | 35.21 | 46.00 | -10.79 |
| 40 | 2.766 | 35.20 | 46.00 | -10.80 |

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* Please See the Average Readings on the Next Page and on the Plot

COMPATIBLE ELECTRONICS

3/23/2005 20:46:50

Intel Corporation
Mini PCI Type 3B 802.11bg Wireless LAN
WM3B2200BG (Receive Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

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11 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.10 dB, Curve : Average

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 0.155 | 42.26 | 55.73 | -13.47 |
| 2 | 0.153 | 41.70 | 55.82 | -14.12 |
| 3 | 0.162 | 39.54 | 55.38 | -15.85 |
| 4 | 0.166 | 38.48 | 55.16 | -16.67 |
| 5 | 0.150 | 38.20 | 56.00 | -17.80 |
| 6 | 0.164 | 37.19 | 55.25 | -18.06 |
| 7 | 0.173 | 36.53 | 54.81 | -18.28 |
| 8 | 0.170 | 35.87 | 54.98 | -19.11 |
| 9 | 0.181 | 33.60 | 54.46 | -20.86 |
| 10 | 0.176 | 33.28 | 54.68 | -21.39 |
| 11 | 0.178 | 32.71 | 54.59 | -21.88 |

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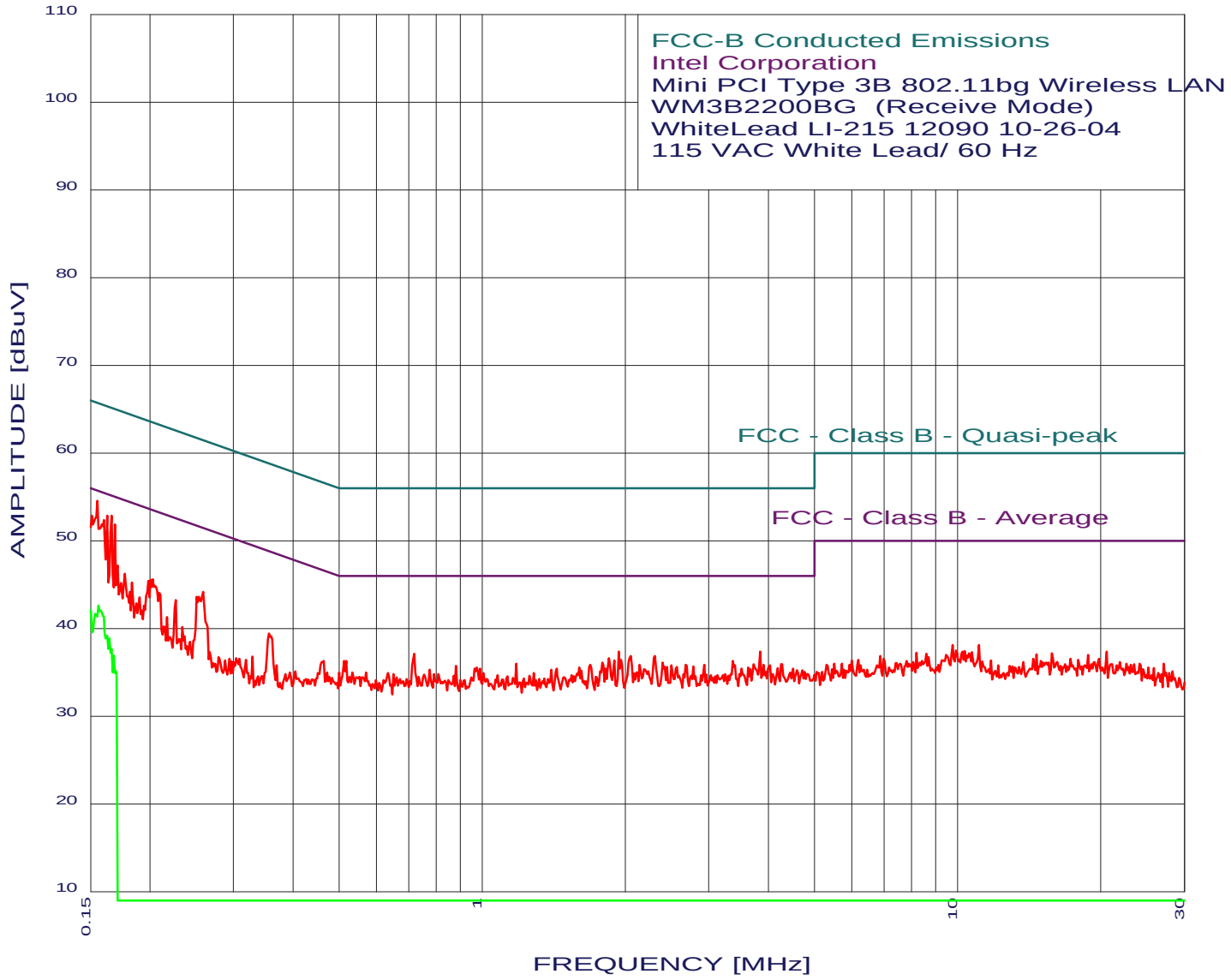
EMISSION LEVEL [dBuV] PEAK
Graph forPeak& Average

3/23/2005 21:24:37




COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/23/2005 21:24:37

Intel Corporation
Mini PCI Type 3B 802.11bg Wireless LAN
WM3B2200BG (Receive Mode)
With Phycomp Antenna
TEST ENGINEER :Benigno Chavez

---

40 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 0.155 | 54.55 | 55.73 | -1.19* |
| 2 | 0.166 | 52.84 | 55.16 | -2.32* |
| 3 | 0.162 | 52.84 | 55.34 | -2.50* |
| 4 | 0.151 | 52.85 | 55.95 | -3.11* |
| 5 | 0.169 | 51.84 | 55.03 | -3.19* |
| 6 | 0.150 | 51.55 | 56.00 | -4.45* |
| 7 | 0.259 | 44.16 | 51.47 | -7.30 |
| 8 | 0.171 | 47.14 | 54.90 | -7.76 |
| 9 | 0.203 | 45.61 | 53.49 | -7.87 |
| 10 | 0.199 | 45.42 | 53.67 | -8.25 |
| 11 | 0.177 | 46.23 | 54.63 | -8.40 |
| 12 | 3.841 | 37.35 | 46.00 | -8.65 |
| 13 | 1.939 | 37.33 | 46.00 | -8.67 |
| 14 | 0.720 | 37.10 | 46.00 | -8.90 |
| 15 | 0.183 | 45.23 | 54.33 | -9.10 |
| 16 | 2.310 | 36.87 | 46.00 | -9.13 |
| 17 | 2.055 | 36.85 | 46.00 | -9.15 |
| 18 | 0.227 | 43.19 | 52.57 | -9.38 |
| 19 | 1.849 | 36.61 | 46.00 | -9.39 |
| 20 | 0.356 | 39.40 | 48.82 | -9.42 |
| 21 | 1.960 | 36.43 | 46.00 | -9.57 |
| 22 | 0.174 | 45.13 | 54.77 | -9.63 |
| 23 | 1.899 | 36.32 | 46.00 | -9.68 |
| 24 | 3.365 | 36.29 | 46.00 | -9.71 |
| 25 | 0.518 | 36.27 | 46.00 | -9.73 |
| 26 | 0.513 | 36.27 | 46.00 | -9.73 |
| 27 | 1.790 | 36.09 | 46.00 | -9.91 |
| 28 | 2.397 | 36.08 | 46.00 | -9.92 |
| 29 | 1.178 | 35.97 | 46.00 | -10.03 |
| 30 | 3.722 | 35.93 | 46.00 | -10.07 |
| 31 | 4.272 | 35.88 | 46.00 | -10.12 |
| 32 | 1.690 | 35.87 | 46.00 | -10.13 |
| 33 | 2.145 | 35.86 | 46.00 | -10.14 |
| 34 | 3.903 | 35.85 | 46.00 | -10.15 |
| 35 | 2.932 | 35.84 | 46.00 | -10.16 |
| 36 | 2.679 | 35.82 | 46.00 | -10.18 |
| 37 | 2.501 | 35.80 | 46.00 | -10.20 |
| 38 | 4.029 | 35.77 | 46.00 | -10.23 |
| 39 | 0.182 | 44.13 | 54.41 | -10.28 |
| 40 | 0.881 | 35.71 | 46.00 | -10.29 |

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* Please See the Average Readings on the Next Page and on the Plot

COMPATIBLE ELECTRONICS

3/23/2005 21:24:37

Intel Corporation
Mini PCI Type 3B 802.11bg Wireless LAN
WM3B2200BG (Receive Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

---

8 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.10 dB, Curve : Average

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 0.156 | 42.60 | 55.69 | -13.08 |
| 2 | 0.150 | 42.07 | 56.00 | -13.93 |
| 3 | 0.153 | 41.63 | 55.82 | -14.19 |
| 4 | 0.162 | 39.18 | 55.34 | -16.16 |
| 5 | 0.164 | 38.84 | 55.25 | -16.41 |
| 6 | 0.166 | 37.66 | 55.16 | -17.50 |
| 7 | 0.168 | 36.93 | 55.07 | -18.14 |
| 8 | 0.170 | 35.10 | 54.98 | -19.89 |

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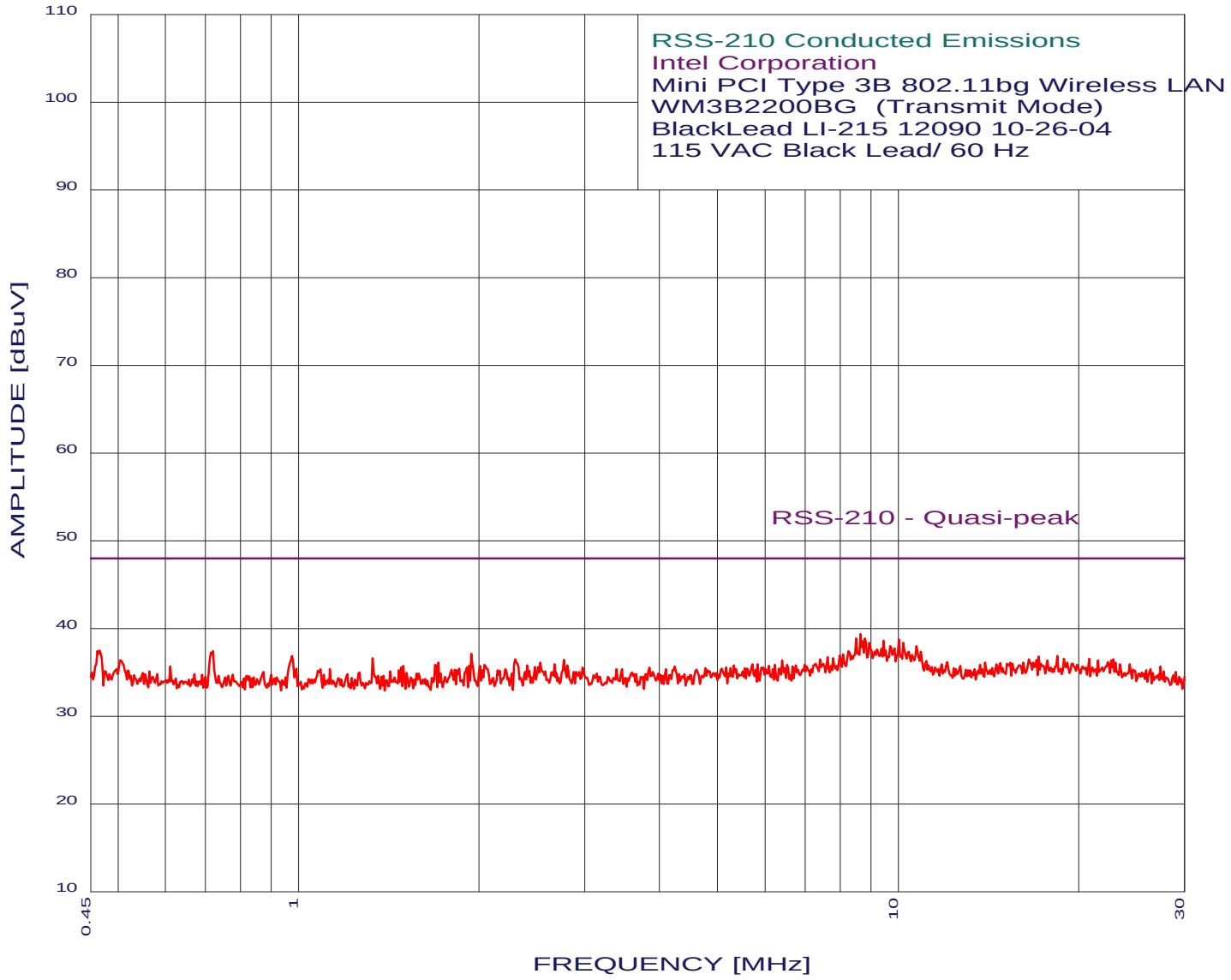
EMISSION LEVEL [dBuV] PEAK
Graph forPeak

3/23/2005 20:50:26




COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/23/2005 20:50:26

Intel Corporation
Mini PCI Type 3B 802.11bg Wireless LAN
WM3B2200BG (Transmit Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

---

41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 8.656 | 39.34 | 48.00 | -8.66 |
| 2 | 8.804 | 38.85 | 48.00 | -9.15 |
| 3 | 8.512 | 38.84 | 48.00 | -9.16 |
| 4 | 10.027 | 38.71 | 48.00 | -9.29 |
| 5 | 9.455 | 38.58 | 48.00 | -9.42 |
| 6 | 8.953 | 38.36 | 48.00 | -9.64 |
| 7 | 10.197 | 38.32 | 48.00 | -9.68 |
| 8 | 9.696 | 37.99 | 48.00 | -10.01 |
| 9 | 10.723 | 37.96 | 48.00 | -10.04 |
| 10 | 0.466 | 37.48 | 48.00 | -10.52 |
| 11 | 0.721 | 37.39 | 48.00 | -10.61 |
| 12 | 10.907 | 37.37 | 48.00 | -10.63 |
| 13 | 1.941 | 37.11 | 48.00 | -10.89 |
| 14 | 8.093 | 37.02 | 48.00 | -10.98 |
| 15 | 7.993 | 36.91 | 48.00 | -11.09 |
| 16 | 18.431 | 36.87 | 48.00 | -11.13 |
| 17 | 0.975 | 36.82 | 48.00 | -11.18 |
| 18 | 17.166 | 36.79 | 48.00 | -11.21 |
| 19 | 7.632 | 36.70 | 48.00 | -11.30 |
| 20 | 7.794 | 36.60 | 48.00 | -11.40 |
| 21 | 1.330 | 36.59 | 48.00 | -11.41 |
| 22 | 20.824 | 36.52 | 48.00 | -11.48 |
| 23 | 18.908 | 36.51 | 48.00 | -11.49 |
| 24 | 7.411 | 36.48 | 48.00 | -11.52 |
| 25 | 22.836 | 36.46 | 48.00 | -11.54 |
| 26 | 2.296 | 36.45 | 48.00 | -11.55 |
| 27 | 16.524 | 36.45 | 48.00 | -11.55 |
| 28 | 2.774 | 36.40 | 48.00 | -11.60 |
| 29 | 17.024 | 36.38 | 48.00 | -11.62 |
| 30 | 0.506 | 36.37 | 48.00 | -11.63 |
| 31 | 6.398 | 36.34 | 48.00 | -11.66 |
| 32 | 17.753 | 36.33 | 48.00 | -11.67 |
| 33 | 21.534 | 36.31 | 48.00 | -11.69 |
| 34 | 11.138 | 36.28 | 48.00 | -11.72 |
| 35 | 22.367 | 36.18 | 48.00 | -11.82 |
| 36 | 12.063 | 36.15 | 48.00 | -11.85 |
| 37 | 16.187 | 36.12 | 48.00 | -11.88 |
| 38 | 13.971 | 36.07 | 48.00 | -11.93 |
| 39 | 2.529 | 36.07 | 48.00 | -11.93 |
| 40 | 23.028 | 36.07 | 48.00 | -11.93 |
| 41 | 0.450 | 34.48 | 48.00 | -13.52 |

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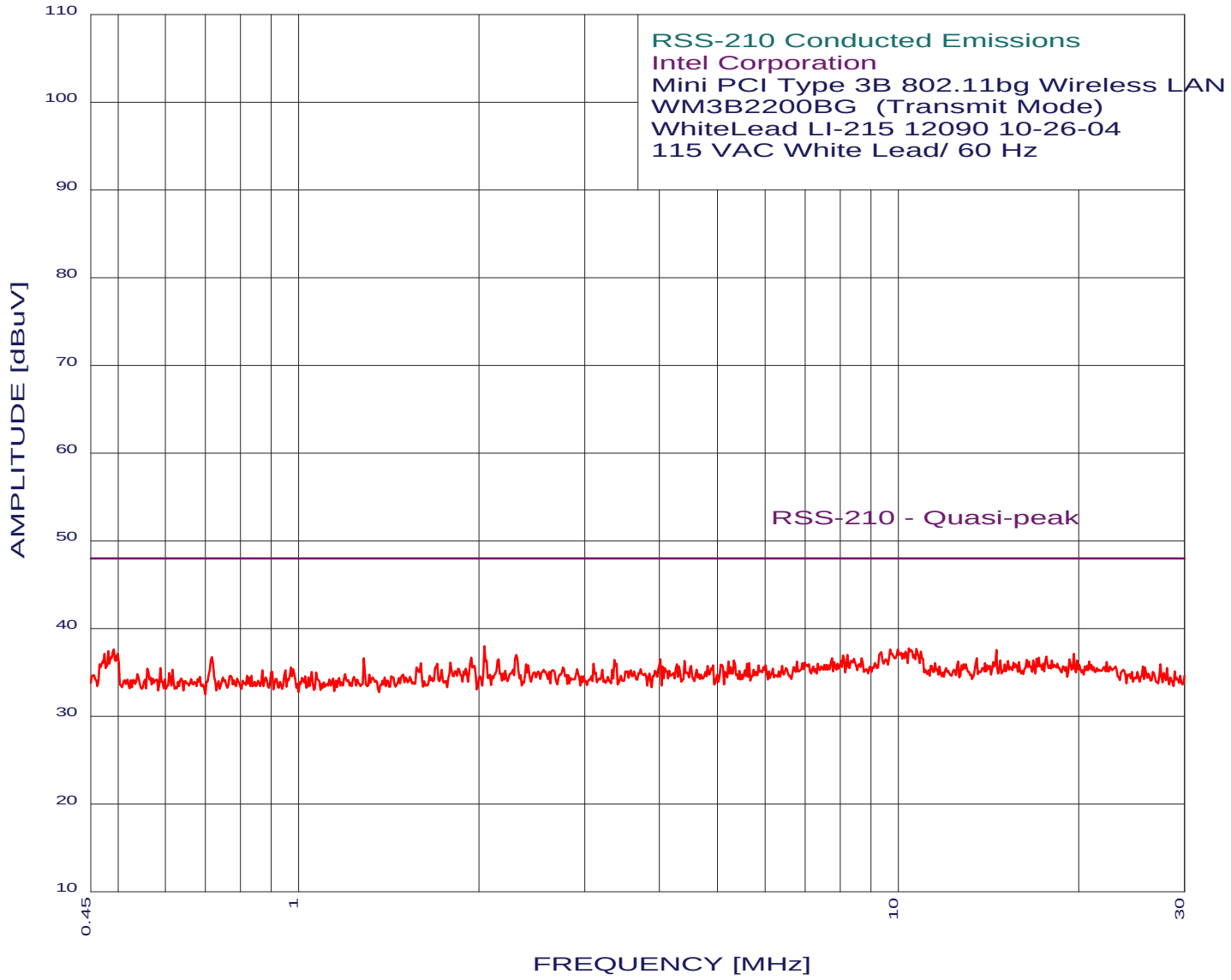
EMISSION LEVEL [dBuV] PEAK
Graph forPeak

3/23/2005 21:27:45




COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/23/2005 21:27:45

Intel Corporation
Mini PCI Type 3B 802.11bg Wireless LAN
WM3B2200BG (Transmit Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

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41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 2.042 | 37.94 | 48.00 | -10.06 |
| 2 | 10.415 | 37.73 | 48.00 | -10.27 |
| 3 | 10.723 | 37.65 | 48.00 | -10.35 |
| 4 | 9.986 | 37.59 | 48.00 | -10.41 |
| 5 | 0.492 | 37.57 | 48.00 | -10.43 |
| 6 | 14.573 | 37.55 | 48.00 | -10.45 |
| 7 | 0.481 | 37.38 | 48.00 | -10.62 |
| 8 | 10.907 | 37.37 | 48.00 | -10.63 |
| 9 | 9.377 | 37.26 | 48.00 | -10.74 |
| 10 | 0.475 | 37.08 | 48.00 | -10.92 |
| 11 | 19.633 | 37.07 | 48.00 | -10.93 |
| 12 | 8.231 | 36.99 | 48.00 | -11.01 |
| 13 | 2.305 | 36.97 | 48.00 | -11.03 |
| 14 | 8.093 | 36.89 | 48.00 | -11.11 |
| 15 | 17.678 | 36.79 | 48.00 | -11.21 |
| 16 | 0.718 | 36.70 | 48.00 | -11.30 |
| 17 | 17.166 | 36.65 | 48.00 | -11.35 |
| 18 | 1.941 | 36.63 | 48.00 | -11.37 |
| 19 | 8.693 | 36.62 | 48.00 | -11.38 |
| 20 | 1.286 | 36.59 | 48.00 | -11.41 |
| 21 | 7.761 | 36.57 | 48.00 | -11.43 |
| 22 | 13.512 | 36.57 | 48.00 | -11.43 |
| 23 | 8.442 | 36.51 | 48.00 | -11.49 |
| 24 | 19.306 | 36.49 | 48.00 | -11.51 |
| 25 | 4.013 | 36.46 | 48.00 | -11.54 |
| 26 | 2.156 | 36.46 | 48.00 | -11.54 |
| 27 | 3.365 | 36.39 | 48.00 | -11.61 |
| 28 | 16.389 | 36.39 | 48.00 | -11.61 |
| 29 | 14.815 | 36.37 | 48.00 | -11.63 |
| 30 | 19.885 | 36.36 | 48.00 | -11.64 |
| 31 | 5.318 | 36.33 | 48.00 | -11.67 |
| 32 | 16.810 | 36.32 | 48.00 | -11.68 |
| 33 | 15.263 | 36.30 | 48.00 | -11.70 |
| 34 | 4.403 | 36.29 | 48.00 | -11.71 |
| 35 | 20.824 | 36.23 | 48.00 | -11.77 |
| 36 | 5.208 | 36.22 | 48.00 | -11.78 |
| 37 | 6.786 | 36.21 | 48.00 | -11.79 |
| 38 | 12.577 | 36.19 | 48.00 | -11.81 |
| 39 | 15.917 | 36.15 | 48.00 | -11.85 |
| 40 | 22.273 | 36.14 | 48.00 | -11.86 |
| 41 | 0.450 | 33.78 | 48.00 | -14.22 |

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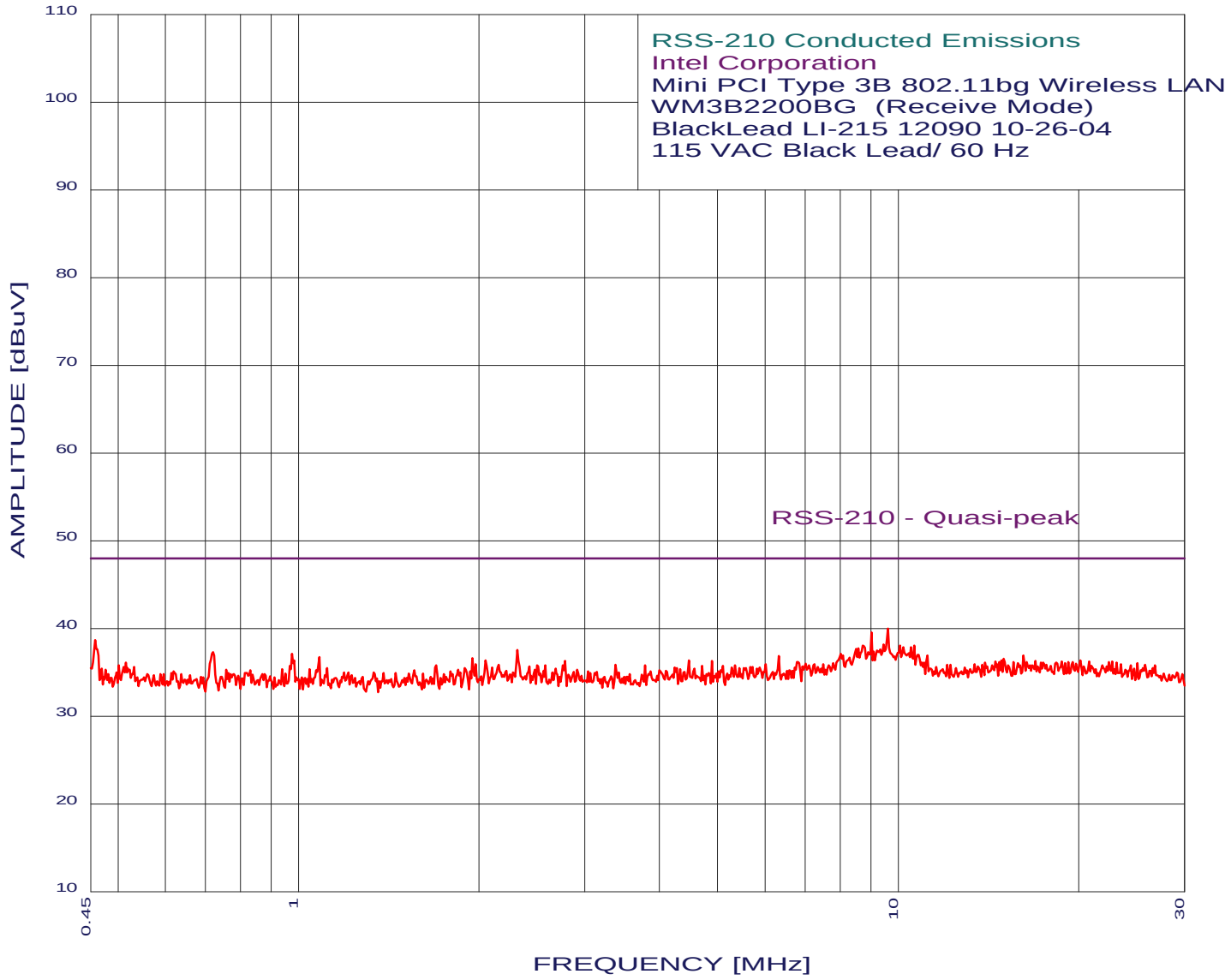
EMISSION LEVEL [dBuV] PEAK
Graph forPeak

3/23/2005 20:48:13




COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/23/2005 20:48:13

Intel Corporation
Mini PCI Type 3B 802.11bg Wireless LAN
WM3B2200BG (Receive Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

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41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 9.614 | 39.99 | 48.00 | -8.01 |
| 2 | 9.027 | 39.56 | 48.00 | -8.44 |
| 3 | 0.458 | 38.68 | 48.00 | -9.32 |
| 4 | 10.633 | 38.05 | 48.00 | -9.95 |
| 5 | 8.730 | 38.05 | 48.00 | -9.95 |
| 6 | 10.068 | 38.01 | 48.00 | -9.99 |
| 7 | 10.502 | 37.84 | 48.00 | -10.16 |
| 8 | 10.197 | 37.82 | 48.00 | -10.18 |
| 9 | 8.582 | 37.74 | 48.00 | -10.26 |
| 10 | 2.315 | 37.55 | 48.00 | -10.45 |
| 11 | 0.721 | 37.29 | 48.00 | -10.71 |
| 12 | 0.975 | 37.12 | 48.00 | -10.88 |
| 13 | 8.027 | 37.11 | 48.00 | -10.89 |
| 14 | 10.815 | 36.96 | 48.00 | -11.04 |
| 15 | 16.187 | 36.92 | 48.00 | -11.08 |
| 16 | 11.184 | 36.89 | 48.00 | -11.11 |
| 17 | 6.318 | 36.83 | 48.00 | -11.17 |
| 18 | 1.083 | 36.74 | 48.00 | -11.26 |
| 19 | 1.949 | 36.61 | 48.00 | -11.39 |
| 20 | 15.007 | 36.54 | 48.00 | -11.46 |
| 21 | 4.476 | 36.37 | 48.00 | -11.63 |
| 22 | 20.137 | 36.34 | 48.00 | -11.66 |
| 23 | 14.879 | 36.34 | 48.00 | -11.66 |
| 24 | 2.050 | 36.33 | 48.00 | -11.67 |
| 25 | 4.890 | 36.31 | 48.00 | -11.69 |
| 26 | 2.786 | 36.30 | 48.00 | -11.70 |
| 27 | 16.952 | 36.27 | 48.00 | -11.73 |
| 28 | 20.824 | 36.22 | 48.00 | -11.78 |
| 29 | 14.512 | 36.21 | 48.00 | -11.79 |
| 30 | 22.742 | 36.21 | 48.00 | -11.79 |
| 31 | 18.749 | 36.20 | 48.00 | -11.80 |
| 32 | 15.582 | 36.18 | 48.00 | -11.82 |
| 33 | 6.814 | 36.16 | 48.00 | -11.84 |
| 34 | 19.549 | 36.15 | 48.00 | -11.85 |
| 35 | 19.227 | 36.13 | 48.00 | -11.87 |
| 36 | 23.127 | 36.12 | 48.00 | -11.88 |
| 37 | 17.452 | 36.11 | 48.00 | -11.89 |
| 38 | 13.971 | 36.07 | 48.00 | -11.93 |
| 39 | 0.515 | 36.07 | 48.00 | -11.93 |
| 40 | 25.052 | 36.04 | 48.00 | -11.96 |
| 41 | 0.450 | 35.48 | 48.00 | -12.52 |

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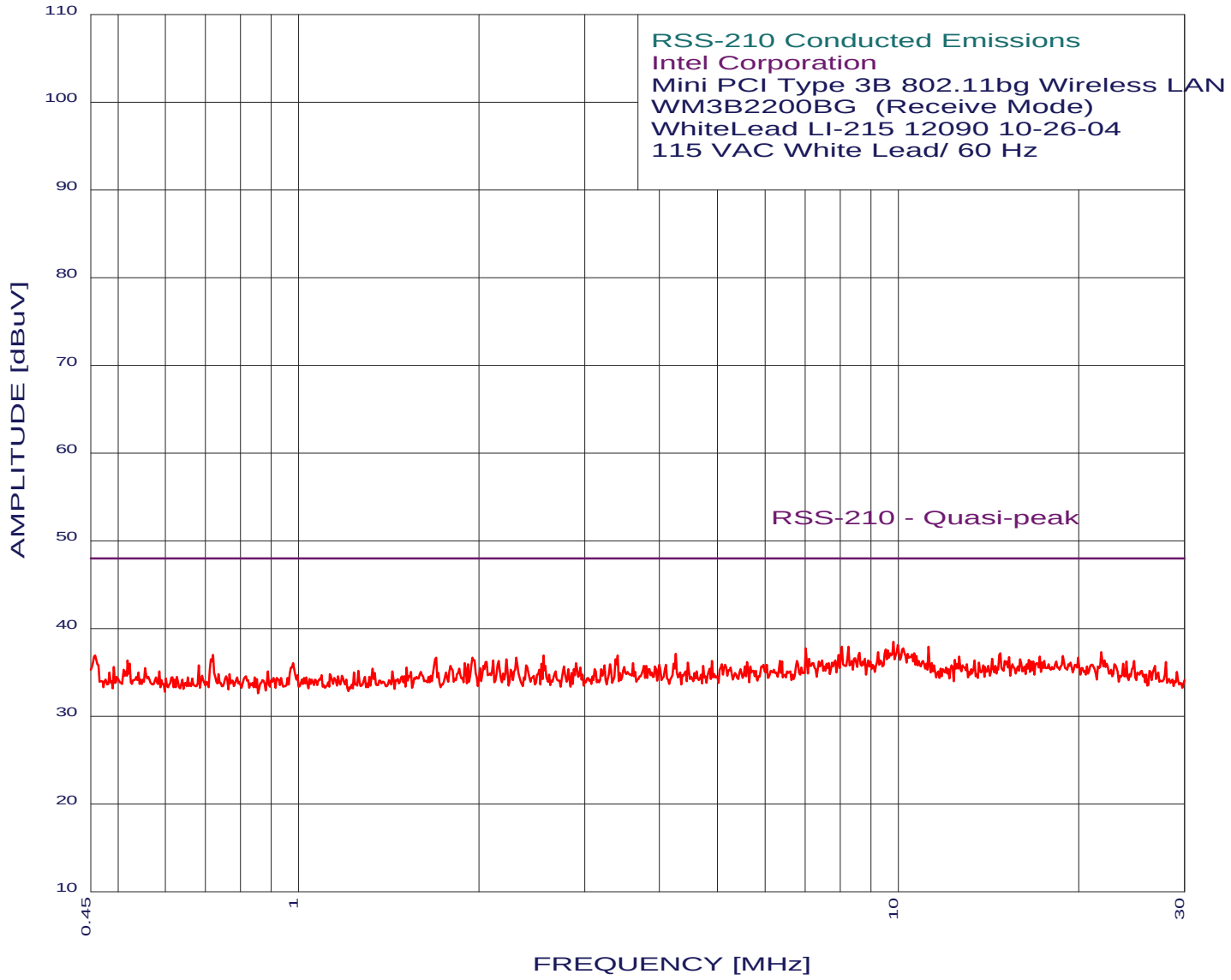
EMISSION LEVEL [dBuV] PEAK
Graph forPeak

3/23/2005 21:25:54




COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/23/2005 21:25:54

Intel Corporation
Mini PCI Type 3B 802.11bg Wireless LAN
WM3B2200BG (Receive Mode)
With Phycomp Antenna
TEST ENGINEER : Benigno Chavez

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41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 9.820 | 38.49 | 48.00 | -9.51 |
| 2 | 9.986 | 38.09 | 48.00 | -9.91 |
| 3 | 8.266 | 37.90 | 48.00 | -10.10 |
| 4 | 11.230 | 37.89 | 48.00 | -10.11 |
| 5 | 8.060 | 37.88 | 48.00 | -10.12 |
| 6 | 7.018 | 37.73 | 48.00 | -10.27 |
| 7 | 10.197 | 37.71 | 48.00 | -10.29 |
| 8 | 9.533 | 37.57 | 48.00 | -10.43 |
| 9 | 21.805 | 37.29 | 48.00 | -10.71 |
| 10 | 9.259 | 37.25 | 48.00 | -10.75 |
| 11 | 8.619 | 37.22 | 48.00 | -10.78 |
| 12 | 14.815 | 37.17 | 48.00 | -10.83 |
| 13 | 10.633 | 37.14 | 48.00 | -10.86 |
| 14 | 4.257 | 37.08 | 48.00 | -10.92 |
| 15 | 0.721 | 37.00 | 48.00 | -11.00 |
| 16 | 7.960 | 36.98 | 48.00 | -11.02 |
| 17 | 2.561 | 36.90 | 48.00 | -11.10 |
| 18 | 3.407 | 36.90 | 48.00 | -11.10 |
| 19 | 0.458 | 36.88 | 48.00 | -11.12 |
| 20 | 18.829 | 36.87 | 48.00 | -11.13 |
| 21 | 10.723 | 36.85 | 48.00 | -11.15 |
| 22 | 12.631 | 36.80 | 48.00 | -11.20 |
| 23 | 17.238 | 36.75 | 48.00 | -11.25 |
| 24 | 15.327 | 36.71 | 48.00 | -11.29 |
| 25 | 1.697 | 36.68 | 48.00 | -11.32 |
| 26 | 2.305 | 36.67 | 48.00 | -11.33 |
| 27 | 19.969 | 36.65 | 48.00 | -11.35 |
| 28 | 1.949 | 36.63 | 48.00 | -11.37 |
| 29 | 7.107 | 36.53 | 48.00 | -11.47 |
| 30 | 14.331 | 36.53 | 48.00 | -11.47 |
| 31 | 2.220 | 36.46 | 48.00 | -11.54 |
| 32 | 15.984 | 36.46 | 48.00 | -11.54 |
| 33 | 16.524 | 36.40 | 48.00 | -11.60 |
| 34 | 0.519 | 36.37 | 48.00 | -11.63 |
| 35 | 7.860 | 36.37 | 48.00 | -11.63 |
| 36 | 13.397 | 36.36 | 48.00 | -11.64 |
| 37 | 2.111 | 36.35 | 48.00 | -11.65 |
| 38 | 7.474 | 36.35 | 48.00 | -11.65 |
| 39 | 8.916 | 36.33 | 48.00 | -11.67 |
| 40 | 6.786 | 36.31 | 48.00 | -11.69 |
| 41 | 0.450 | 35.28 | 48.00 | -12.72 |

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