APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

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 Hitachi Antenna

Channel 1 - 802.11 b Mode Gain : 30.0 Peak Power: 17.66 dBm Avg. Power: 15.25 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	35.12	V	74	-38.88	Peak	1.96	225	
4824	25.81	V	54	-28.19	Avg	1.96	225	
7236	39.76	V	74	-34.24	Peak	1.96	135	
7236	26.48	V	54	-27.52	Avg	1.96	135	
9648	52.22	V	--	--	Peak	2.48	225	Not in Restricted Band
9648	47.18	V	--	--	Avg	2.48	225	Not in Restricted Band
12060	45.34	V	74	-28.66	Peak	2.48	180	
12060	32.29	V	54	-21.71	Avg	2.48	180	
14472	47.8	V	74	-26.2	Peak	2.48	270	
14472	35.88	V	54	-18.12	Avg	2.48	270	
16884	47.85	V	--	--	Peak	1.89	225	Not in Restricted Band
16884	35.06	V	--	--	Avg	1.89	225	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 Hitachi Antenna
Channel 1 - 802.11 b Mode Gain : 30.0 Peak Power: 17.66 dBm Avg. Power: 15.25 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	38.33	H	74	-35.67	Peak	2.91	225	
4824	27.31	H	54	-26.69	Avg	2.91	225	
7236	39.96	H	74	-34.04	Peak	2.06	315	
7236	27.2	H	54	-26.8	Avg	2.06	315	
9648	53.58	H	--	--	Peak	2.2	270	Not in Restricted Band
9648	49.28	H	--	--	Avg	2.2	270	Not in Restricted Band
12060	45.37	H	74	-28.63	Peak	2.28	270	
12060	32.13	H	54	-21.87	Avg	2.28	270	
14472	48.67	H	74	-25.33	Peak	2.18	225	
14472	36.41	H	54	-17.59	Avg	2.18	225	
16884	48.17	H	--	--	Peak	2.18	225	Not in Restricted Band
16884	34.57	H	--	--	Avg	2.18	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 Hitachi Antenna

Channel 6 - 802.11 b Mode Gain : 30.0 Peak Power: 17.55 dBm Avg. Power: 15.14 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	40.03	V	74	-33.97	Peak	2.22	270	
4874	29.24	V	54	-24.76	Avg	2.22	270	
7311	40.3	V	74	-33.7	Peak	2.23	225	
7311	26.6	V	54	-27.4	Avg	2.23	225	
9748	52.47	V	--	--	Peak	2.23	180	Not in Restricted Band
9748	46.44	V	--	--	Avg	2.23	180	Not in Restricted Band
12185	45.73	V	74	-28.27	Peak	1.86	225	
12185	32.06	V	54	-21.94	Avg	1.86	225	
14622	47.59	V	--	--	Peak	1.86	225	Not in Restricted Band
14622	34.6	V	--	--	Avg	1.86	225	Not in Restricted Band
17059	49.86	V	--	--	Peak	1.86	270	Not in Restricted Band
17059	36.25	V	--	--	Avg	1.86	270	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 Hitachi Antenna
Channel 6 - 802.11 b Mode Gain : 30.0 Peak Power: 17.55 dBm Avg. Power: 15.14 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	41.06	H	74	-32.94	Peak	2.17	0	
4874	28.72	H	54	-25.28	Avg	2.17	0	
7311	39.44	H	74	-34.56	Peak	2.17	0	
7311	27.1	H	54	-26.9	Avg	2.17	0	
9748	52.01	H	--	--	Peak	2.17	270	Not in Restricted Band
9748	45.74	H	--	--	Avg	2.17	270	Not in Restricted Band
12185	46.48	H	74	-27.52	Peak	2.49	225	
12185	32.24	H	54	-21.76	Avg	2.49	225	
14622	48.4	H	--	--	Peak	2.49	270	Not in Restricted Band
14622	35.13	H	--	--	Avg	2.49	270	Not in Restricted Band
17059		H	--	--	Peak			Not in Restricted Band
17059		H	--	--	Avg			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 Hitachi Antenna
Channel 11 - 802.11 b Mode Gain : 30.0 Peak Power: 17.65 dBm Avg. Power: 15.25 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	41.84	V	74	-32.16	Peak	2.46	225	
4924	33.51	V	54	-20.49	Avg	2.46	225	
7386	40.94	V	74	-33.06	Peak	1.98	0	
7386	25.46	V	54	-28.54	Avg	1.98	0	
9848	53.55	V	--	--	Peak	2.09	225	Not in Restricted Band
9848	49.14	V	--	--	Avg	2.09	225	Not in Restricted Band
12310	44.17	V	74	-29.83	Peak	1.52	180	
12310	31.23	V	54	-22.77	Avg	1.52	180	
14772	48.73	V	--	--	Peak	1.85	225	Not in Restricted Band
14772	36.07	V	--	--	Avg	1.85	225	Not in Restricted Band
17234	48.99	V	--	--	Peak	1.61	315	Not in Restricted Band
17234	35.77	V	--	--	Avg	1.61	315	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 : 30.0 Peak Power: 17.65 dBm Avg. Power: 15.25 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	36.09	H	74	-37.91	Peak	1.22	225	
4924	24.24	H	54	-29.76	Avg	1.22	225	
7386	40.63	H	74	-33.37	Peak	1.87	225	
7386	26.08	H	54	-27.92	Avg	1.87	225	
9848	54.54	H	--	--	Peak	2.51	270	Not in Restricted Band
9848	50.33	H	--	--	Avg	2.51	270	Not in Restricted Band
12310	44.4	H	74	-29.6	Peak	1.82	225	
12310	31.84	H	54	-22.16	Avg	1.82	225	
14772	51.32	H	--	--	Peak	1.82	225	Not in Restricted Band
14772	35.82	H	--	--	Avg	1.82	225	Not in Restricted Band
17234	48.81	H	--	--	Peak	1.82	225	Not in Restricted Band
17234	35.87	H	--	--	Avg	1.82	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: 3/16/05

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 Hitachi Antenna

Channel 1 - 802.11 g Mode Gain : 24.0 Peak Power: 16.49 dBm Avg. Power: 9.84 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	35.65	V	74	-38.35	Peak	1.61	45	
4824	22.42	V	54	-31.58	Avg	1.61	45	
7236	39.65	V	74	-34.35	Peak	1.61	0	
7236	26.12	V	54	-27.88	Avg	1.61	0	
9648	45	V	--	--	Peak	1.42	225	Not in Restricted Band
9648	32	V	--	--	Avg	1.42	225	Not in Restricted Band
12060	46.33	V	74	-27.67	Peak	1.32	0	
12060	31.56	V	54	-22.44	Avg	1.32	0	
14472	50.45	V	74	-23.55	Peak	1.98	270	
14472	35.75	V	54	-18.25	Avg	1.98	270	
16884	47.78	V	--	--	Peak	1.98	0	Not in Restricted Band
16884	35.07	V	--	--	Avg	1.98	0	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 Hitachi Antenna
Channel 1 - 802.11 g Mode Gain : 24.0 Peak Power: 16.49 dBm Avg. Power: 9.84 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	35.49	H	74	-38.51	Peak	2.52	270	
4824	22	H	54	-32	Avg	2.52	270	
7236	40.82	H	74	-33.18	Peak	2.03	180	
7236	26.38	H	54	-27.62	Avg	2.03	180	
9648	44.79	H	--	--	Peak	1.79	45	Not in Restricted Band
9648	32.01	H	--	--	Avg	1.79	45	Not in Restricted Band
12060	45.44	H	74	-28.56	Peak	2.15	225	
12060	32.07	H	54	-21.93	Avg	2.15	225	
14472	48.89	H	74	-25.11	Peak	2.15	135	
14472	35.89	H	54	-18.11	Avg	2.15	135	
16884	48.14	H	--	--	Peak	1.89	270	Not in Restricted Band
16884	35.42	H	--	--	Avg	1.89	270	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 Hitachi Antenna
Channel 6 - 802.11 g Mode Gain : 24.0 Peak Power: 16.62 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
4874	34.49	V	74	-39.51	Peak	2	225	
4874	21.66	V	54	-32.34	Avg	2	225	
7311	38.67	V	74	-35.33	Peak	2.59	315	
7311	26.11	V	54	-27.89	Avg	2.59	315	
9748	44.45	V	--	--	Peak	2.49	270	Not in Restricted Band
9748	31.81	V	--	--	Avg	2.49	270	Not in Restricted Band
12185	44.3	V	74	-29.7	Peak	2.49	135	
12185	31.69	V	54	-22.31	Avg	2.49	135	
14622	49.28	V	--	--	Peak	1.93	45	Not in Restricted Band
14622	33.87	V	--	--	Avg	1.93	45	Not in Restricted Band
17059	49.6	V	--	--	Peak	1.76	225	Not in Restricted Band
17059	35.97	V	--	--	Avg	1.76	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 Hitachi Antenna
Channel 6 - 802.11 g Mode Gain : 24.0 Peak Power: 16.62 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
4874	36.88	H	74	-37.12	Peak	1.63	180	
4874	22.41	H	54	-31.59	Avg	1.63	180	
7311	39.88	H	74	-34.12	Peak	2.08	225	
7311	27.09	H	54	-26.91	Avg	2.08	225	
9748	43.7	H	--	--	Peak	1.43	180	Not in Restricted Band
9748	31.36	H	--	--	Avg	1.43	180	Not in Restricted Band
12185	44.38	H	74	-29.62	Peak	1.32	225	
12185	32.31	H	54	-21.69	Avg	1.32	225	
14622	47.82	H	--	--	Peak	1.32	45	Not in Restricted Band
14622	34.9	H	--	--	Avg	1.32	45	Not in Restricted Band
17059	48.43	H	--	--	Peak	1.32	180	Not in Restricted Band
17059	36.29	H	--	--	Avg	1.32	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 Hitachi Antenna

Channel 11 - 802.11 g Mode Gain : 23.5 Peak Power: 16.32 dBm Avg. Power: 9.62 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	35.72	V	74	-38.28	Peak	1.64	315	
4924	22.64	V	54	-31.36	Avg	1.64	315	
7386	38	V	74	-36	Peak	2.26	225	
7386	25.43	V	54	-28.57	Avg	2.26	225	
9848	46	V	--	--	Peak	2.27	270	Not in Restricted Band
9848	34.66	V	--	--	Avg	2.27	270	Not in Restricted Band
12310	42.74	V	74	-31.26	Peak	2.27	270	
12310	30.3	V	54	-23.7	Avg	2.27	270	
14772	49.98	V	--	--	Peak	2.27	180	Not in Restricted Band
14772	35.02	V	--	--	Avg	2.27	180	Not in Restricted Band
17234	49.49	V	--	--	Peak	1.89	315	Not in Restricted Band
17234	36.51	V	--	--	Avg	1.89	315	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 Hitachi Antenna
Channel 11 - 802.11 g Mode Gain : 23.5 Peak Power: 16.32 dBm Avg. Power: 9.62 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	36.26	H	74	-37.74	Peak	1.47	225	
4924	22.88	H	54	-31.12	Avg	1.47	225	
7386	37.27	H	74	-36.73	Peak	1.47	180	
7386	25.87	H	54	-28.13	Avg	1.47	180	
9848	45.6	H	--	--	Peak	2.26	225	Not in Restricted Band
9848	31.78	H	--	--	Avg	2.26	225	Not in Restricted Band
12310	44.45	H	74	-29.55	Peak	2.25	225	
12310	31.23	H	54	-22.77	Avg	2.25	225	
14772	49.96	H	--	--	Peak	1.59	180	Not in Restricted Band
14772	35.39	H	--	--	Avg	1.59	180	Not in Restricted Band
17234	49.45	H	--	--	Peak	1.47	270	Not in Restricted Band
17234	36.81	H	--	--	Avg	1.47	270	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 Hitachi Antenna

Channel 1 - 802.11 b Mode Gain : 30.0 Peak Power: 17.66 dBm Avg. Power: 15.25 dBm

Channel 6 - 802.11 b Mode Gain : 30.0 Peak Power: 17.55 dBm Avg. Power: 15.14 dBm

Channel 11 - 802.11 b Mode Gain : 30.0 Peak Power: 17.65 dBm Avg. Power: 15.25 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2312	49.29	V	74	-24.71	Peak	3.2	270	103 MHz Below the Fundamental
2312	43.54	V	54	-10.46	Avg	3.2	270	of Channel 1
2512	43.51	V	74	-30.49	Peak	1.46	270	103 MHz Above the Fundamental
2512	34.99	V	54	-19.01	Avg	1.46	270	of Channel 1
2312	52.86	H	74	-21.14	Peak	1.93	225	103 MHz Below the Fundamental
2312	47.47	H	54	-6.53	Avg	1.93	225	of Channel 1
2512	44.4	H	74	-29.6	Peak	1.86	225	103 MHz Above the Fundamental
2512	33.24	H	54	-20.76	Avg	1.86	225	of Channel 1
2336	48.56	V	74	-25.44	Peak	1.59	135	103 MHz Below the Fundamental
2336	43.79	V	54	-10.21	Avg	1.59	135	of Channel 6
2538.7	45.73	V	74	-28.27	Peak	2.55	90	103 MHz Above the Fundamental
2538.7	37.38	V	54	-16.62	Avg	2.55	90	of Channel 6
2336	52.17	H	74	-21.83	Peak	1.94	225	103 MHz Below the Fundamental
2336	47	H	54	-7	Avg	1.94	225	of Channel 6
2538.7	46.96	H	74	-27.04	Peak	2.41	225	103 MHz Above the Fundamental
2538.7	39.12	H	54	-14.88	Avg	2.41	225	of Channel 6
2360	47.35	V	74	-26.65	Peak	1.82	135	103 MHz Below the Fundamental
2360	41.9	V	54	-12.1	Avg	1.82	135	of Channel 11
2565	45.34	V	74	-28.66	Peak	1.89	135	103 MHz Above the Fundamental
2565	37.11	V	54	-16.89	Avg	1.89	135	of Channel 11
2360	48.79	H	74	-25.21	Peak	2.22	225	103 MHz Below the Fundamental
2360	42.22	H	54	-11.78	Avg	2.22	225	of Channel 11
2564	46.82	H	74	-27.18	Peak	2.41	315	103 MHz Above the Fundamental
2564	38.12	H	54	-15.88	Peak	2.41	315	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 Hitachi Antenna

Channel 1 - 802.11 g Mode Gain : 24.0 Peak Power: 16.49 dBm Avg. Power: 9.84 dBm

Channel 6 - 802.11 g Mode Gain : 24.0 Peak Power: 16.62 dBm Avg. Power: 9.93 dBm

Channel 11 - 802.11 g Mode Gain : 23.5 Peak Power: 16.32 dBm Avg. Power: 9.62 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2312	54.95	V	74	-19.05	Peak	1.84	225	103 MHz Below the Fundamental
2312	50.09	V	54	-3.91	Avg	1.84	225	of Channel 1
2512	48.24	V	74	-25.76	Peak	1.82	90	103 MHz Above the Fundamental
2512	41.77	V	54	-12.23	Avg	1.82	90	of Channel 1
2312	56.94	H	74	-17.06	Peak	1.95	225	103 MHz Below the Fundamental
2312	51.84	H	54	-2.16	Avg	1.95	225	of Channel 11
2512	51.11	H	74	-22.89	Peak	2.03	225	103 MHz Above the Fundamental
2512	44.12	H	54	-9.88	Avg	2.03	225	of Channel 11
2336	53.32	V	74	-20.68	Peak	1.53	225	103 MHz Below the Fundamental
2336	48.59	V	54	-5.41	Avg	1.53	225	of Channel 6
2538.7	50.04	V	74	-23.96	Peak	2.33	270	103 MHz Above the Fundamental
2538.7	43.93	V	54	-10.07	Avg	2.33	270	of Channel 6
2336	54.97	H	83.5	-28.53	Peak	1.96	225	103 MHz Below the Fundamental
2336	49.76	H	63.5	-13.74	Avg	1.96	225	of Channel 6
2538.7	51.78	H	83.5	-31.72	Peak	2.33	225	103 MHz Above the Fundamental
2538.7	45.85	H	63.5	-17.65	Avg	2.33	225	of Channel 6
2360	50.26	V	74	-23.74	Peak	2.28	225	103 MHz Below the Fundamental
2360	45.09	V	54	-8.91	Avg	2.28	225	of Channel 11
2565	47.84	V	74	-26.16	Peak	2.87	270	103 MHz Above the Fundamental
2565	38.34	V	54	-15.66	Avg	2.87	270	of Channel 11
2360	54.71	H	83.5	-28.79	Peak	1.72	225	103 MHz Below the Fundamental
2360	49.45	H	63.5	-14.05	Avg	1.72	225	of Channel 11
2564	50.77	H	83.5	-32.73	Peak	1.71	225	103 MHz Above the Fundamental
2564	42.44	H	63.5	-21.06	Peak	1.71	225	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 Hitachi Antenna

Channel 1 - 802.11 b Mode Gain : 30.0 Peak Power: 17.66 dBm Avg. Power: 15.25 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3216	39.07	V	74	-34.93	Peak	2.38	225	Fundamental of LO for
3216	33.47	V	54	-20.53	Avg	2.38	225	Channel 1
6432	38.43	V	--	--	Peak	1.96	270	2nd Harmonic of LO for
6432	24.21	V	--	--	Avg	1.96	270	Channel 1
9648	52.22	V	--	--	Peak	2.48	225	3rd Harmonic of LO =
9648	47.18	V	--	--	Avg	2.48	225	4th Harmonic of Tx for Channel 1
12864	44.16	V	--	--	Peak	1.96	0	4th Harmonic of LO for
12864	31.11	V	--	--	Avg	1.96	0	Channel 1
3216	36.6	H	74	-37.4	Peak	2.96	225	Fundamental of LO for
3216	30.58	H	54	-23.42	Avg	2.96	225	Channel 1
6432	36.65	H	--	--	Peak	1.85	180	2nd Harmonic of LO for
6432	23.93	H	--	--	Avg	1.85	180	Channel 1
9648	53.58	H	--	--	Peak	2.2	270	3rd Harmonic of LO =
9648	49.28	H	--	--	Avg	2.2	270	4th Harmonic of Tx for Channel 1
12864	44.34	H	--	--	Peak	1.85	315	4th Harmonic of LO for
12864	31.07	H	--	--	Avg	1.85	315	Channel 1
								Only the Fundamental of the LO
								is in the Restricted Band

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 Hitachi Antenna

Channel 6 - 802.11 b Mode Gain : 30.0 Peak Power: 17.55 dBm Avg. Power: 15.14 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	37.58	V	74	-36.42	Peak	1.64	180	Fundamental of LO for
3249.33	30.73	V	54	-23.27	Avg	1.64	180	Channel 6
6498.67	35.99	V	--	--	Peak	1.93	225	2nd Harmonic of LO for
6498.67	23.89	V	--	--	Avg	1.93	225	Channel 6
9748	52.47	V	--	--	Peak	2.23	180	3rd Harmonic of LO =
9748	46.44	V	--	--	Avg	2.23	180	4th Harmonic of Tx for Channel 6
12997.3	43.1	V	--	--	Peak	2.35	45	4th Harmonic of LO for
12997.3	30.38	V	--	--	Avg	2.35	45	Channel 6
3249.33	35.06	H	74	-38.94	Peak	2.04	315	Fundamental of LO for
3249.33	27	H	54	-27	Avg	2.04	315	Channel 6
6498.67	37.4	H	--	--	Peak	1.9	0	2nd Harmonic of LO for
6498.67	23.78	H	--	--	Avg	1.9	0	Channel 6
9748	52.17	H	--	--	Peak	1.89	270	3rd Harmonic of LO =
9748	46.66	H	--	--	Avg	1.89	270	4th Harmonic of Tx for Channel 6
12997.3	45.08	H	--	--	Peak	1.89	270	4th Harmonic of LO for
12997.3	30.72	H	--	--	Avg	1.89	270	of Channel 6
								Only the Fundamental of the LO
								is in the Restricted Band

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 Hitachi Antenna

Channel 11 - 802.11 b Mode Gain : 30.0 Peak Power: 17.65 dBm Avg. Power: 15.25 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3282.67	37.87	V	74	-36.13	Peak	2.39	270	Fundamental of LO for
3282.67	30.51	V	54	-23.49	Avg	2.39	270	Channel 11
6565.33	37.13	V	--	--	Peak	2.39	315	2nd Harmonic of LO for
6565.33	24.31	V	--	--	Avg	2.39	315	Channel 11
9848	53.55	V	--	--	Peak	2.09	225	3rd Harmonic of LO =
9848	49.14	V	--	--	Avg	2.09	225	4th Harmonic of Tx for Channel 11
13130.7	43.43	V	--	--	Peak	1.56	315	4th Harmonic of LO for
13130.7	29.73	V	--	--	Avg	1.56	315	of Channel 11
3282.67	35.69	H	74	-38.31	Peak	1.86	315	Fundamental of LO for
3282.67	23.47	H	54	-30.53	Avg	1.86	315	Channel 11
6565.33	36.94	H	--	--	Peak	2.15	315	2nd Harmonic of LO for
6565.33	23.6	H	--	--	Avg	2.15	315	Channel 11
9848	54.54	H	--	--	Peak	2.51	270	3rd Harmonic of LO =
9848	50.33	H	--	--	Avg	2.51	270	4th Harmonic of Tx for Channel 11
13130.7	42.43	H	--	--	Peak	2.06	225	4th Harmonic of LO for
13130.7	29.59	H	--	--	Avg	2.06	225	of Channel 11
								Only the Fundamental of the LO
								is in the Restricted Band

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 Hitachi Antenna
Channel 1 - 802.11 g Mode Gain : 24.0 Peak Power: 16.49 dBm Avg. Power: 9.84 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3216	37.16	V	74	-36.84	Peak	2.01	0	Fundamental of LO for
3216	29.87	V	54	-24.13	Avg	2.01	0	Channel 1
6432	37.59	V	--	--	Peak	2.01	225	2nd Harmonic of LO for
6432	23.51	V	--	--	Avg	2.01	225	Channel 1
9648	44.4	V	--	--	Peak	1.62	135	3rd Harmonic of LO =
9648	31.84	V	--	--	Avg	1.62	135	4th Harmonic of Tx for Channel 1
12864	42.88	V	--	--	Peak	1.62	270	4th Harmonic of LO for
12864	30.65	V	--	--	Avg	1.62	270	Channel 1
3216	37.67	H	74	-36.33	Peak	2.55	180	Fundamental of LO for
3216	31.62	H	54	-22.38	Avg	2.55	180	Channel 1
6432	36.34	H	--	--	Peak	1.86	315	2nd Harmonic of LO for
6432	23.89	H	--	--	Avg	1.86	315	Channel 1
9648	44.79	H	--	--	Peak	1.79	45	3rd Harmonic of LO =
9648	32.01	H	--	--	Avg	1.79	45	4th Harmonic of Tx for Channel 1
12864	44.16	H	--	--	Peak	1.56	315	4th Harmonic of LO for
12864	31.05	H	--	--	Avg	1.56	315	Channel 1
								Only the Fundamental of the LO
								is in the Restricted Band

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 Hitachi Antenna
Channel 6 - 802.11 g Mode Gain : 24.0 Peak Power: 16.62 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
3249.33	38.14	V	74	-35.86	Peak	1.71	270	Fundamental of LO for
3249.33	34.08	V	54	-19.92	Avg	1.71	270	Channel 6
6498.67	36.39	V	--	--	Peak	2.16	180	2nd Harmonic of LO for
6498.67	23.19	V	--	--	Avg	2.16	180	Channel 6
9748	44.89	V	--	--	Peak	1.75	315	3rd Harmonic of LO =
9748	30.72	V	--	--	Avg	1.75	315	4th Harmonic of Tx for Channel 6
12997.3	42.9	V	--	--	Peak	1.71	225	4th Harmonic of LO for
12997.3	30.03	V	--	--	Avg	1.71	225	Channel 6
3249.33	35.73	H	74	-38.27	Peak	2.65	315	Fundamental of LO for
3249.33	28.71	H	54	-25.29	Avg	2.65	315	Channel 6
6498.67	35.38	H	--	--	Peak	2.65	270	2nd Harmonic of LO for
6498.67	23.5	H	--	--	Avg	2.65	270	Channel 6
9748	43.91	H	--	--	Peak	2.64	0	3rd Harmonic of LO =
9748	31.03	H	--	--	Avg	2.64	0	4th Harmonic of Tx for Channel 6
12997.3	43.54	H	--	--	Peak	2.02	180	4th Harmonic of LO for
12997.3	30.54	H	--	--	Avg	2.02	180	of Channel 6
								Only the Fundamental of the LO
								is in the Restricted Band

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 Hitachi Antenna
Channel 11 - 802.11 g Mode Gain : 23.5 Peak Power: 16.32 dBm Avg. Power: 9.62 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3282.67	38.32	V	74	-35.68	Peak	1.73	270	Fundamental of LO for
3282.67	34.02	V	54	-19.98	Avg	1.73	270	Channel 11
6565.33	36.65	V	--	--	Peak	1.73	225	2nd Harmonic of LO for
6565.33	23.78	V	--	--	Avg	1.73	225	Channel 11
9848	46.26	V	--	--	Peak	2.86	315	3rd Harmonic of LO =
9848	35.88	V	--	--	Avg	2.86	315	4th Harmonic of Tx for Channel 11
13130.7	42.68	V	--	--	Peak	2.05	315	4th Harmonic of LO for
13130.7	29.35	V	--	--	Avg	2.05	315	of Channel 11
3282.67	36.44	H	74	-37.56	Peak	2.62	180	Fundamental of LO for
3282.67	29.92	H	54	-24.08	Avg	2.62	180	Channel 11
6565.33	37.75	H	--	--	Peak	2.02	315	2nd Harmonic of LO for
6565.33	23.65	H	--	--	Avg	2.02	315	Channel 11
9848	43.17	H	--	--	Peak	2.02	315	3rd Harmonic of LO =
9848	30.39	H	--	--	Avg	2.02	315	4th Harmonic of Tx for Channel 11
13130.7	42.54	H	--	--	Peak	2.02	180	4th Harmonic of LO for
13130.7	29.14	H	--	--	Avg	2.02	180	of Channel 11
								Only the Fundamental of the LO
								is in the Restricted Band

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 Hitachi 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	35.47	V	80	-44.53	Peak	1.96	0	Fundamental of LO for
3249.33	26.3	V	60	-33.7	Avg	1.96	0	Channel 6
6498.67	36.15	V	80	-43.85	Peak	1.63	0	2nd Harmonic of LO for
6498.67	23.76	V	60	-36.24	Avg	1.63	0	Channel 6
9748	46.72	V	80	-33.28	Peak	1.37	270	3rd Harmonic of LO for
9748	32.3	V	60	-27.7	Avg	1.37	270	Channel 6
3249.33	35.35	H	80	-44.65	Peak	1.52	225	Fundamental of LO for
3249.33	25.52	H	60	-34.48	Avg	1.52	225	Channel 6
6498.67	36.78	H	80	-43.22	Peak	2.06	180	2nd Harmonic of LO for
6498.67	23.88	H	60	-36.12	Avg	2.06	180	Channel 6
9748	43.91	H	80	-36.09	Peak	2.06	270	3rd Harmonic of LO for
9748	31.51	H	60	-28.49	Avg	2.06	270	Channel 6

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 Hitachi 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	38.74	V	80	-41.26	Peak	1.38	270	Fundamental of LO for
3249.33	31.73	V	60	-28.27	Avg	1.38	270	Channel 6
6498.67	36.68	V	80	-43.32	Peak	1.78	315	2nd Harmonic of LO for
6498.67	23.2	V	60	-36.8	Avg	1.78	315	Channel 6
9748	44.98	V	80	-35.02	Peak	1.93	225	3rd Harmonic of LO for
9748	30.59	V	60	-29.41	Avg	1.93	225	Channel 6
3249.33	34.87	H	80	-45.13	Peak	2.34	180	Fundamental of LO for
3249.33	27.42	H	60	-32.58	Avg	2.34	180	Channel 6
6498.67	36.5	H	80	-43.5	Peak	1.76	270	2nd Harmonic of LO for
6498.67	23.37	H	60	-36.63	Avg	1.76	270	Channel 6
9748	45.08	H	80	-34.92	Peak	2.03	225	3rd Harmonic of LO for
9748	30.82	H	60	-29.18	Avg	2.03	225	Channel 6

COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics Page : 1/1
Customer : Intel Date : 3/17/2005
Manufacturer : Intel Time : 18:51:13
Eut name : Intel Mini PCI Type 3A 802.11bg Wir Lab : A
Model : WM3B2200BG Test Distance : 3.0 Meters
Serial # : N/A
Specification : FCC B
Distance correction factor (20 * log(test/spec) : 0.00
Test Mode : Scan Type: Qualification w/ Hitachi Antenna
Scan Range: 10 kHz to 1000 MHz (Vertical & Horizontal)
Mode of Operation (worst case): Transmit
Test Engineer: Benigno Chavez

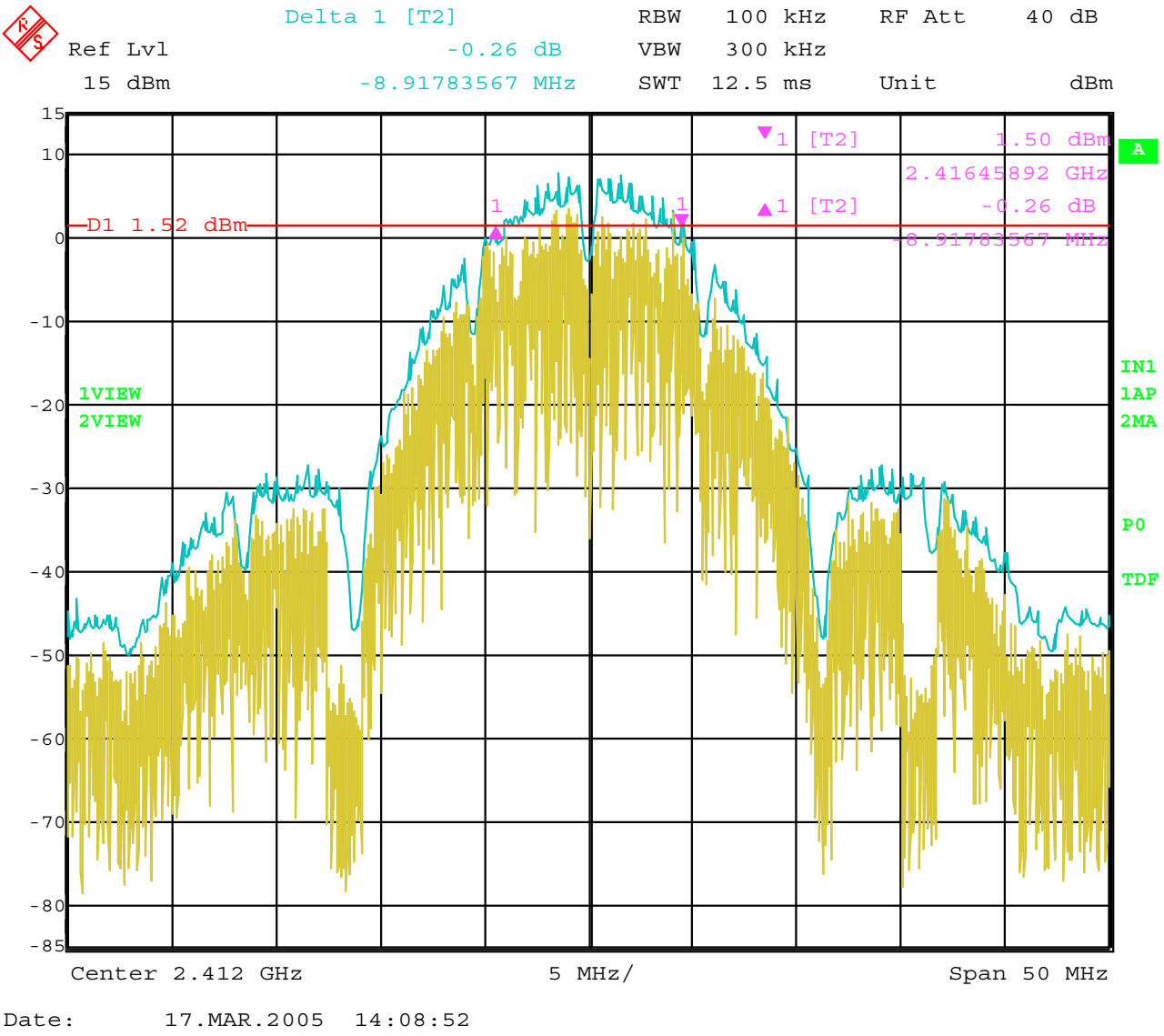
Pol	Freq	Rdng	Cable loss	Ant factor	Amp gain	Cor'd rdg = R	Limit = L	Delta R-L
	MHz	dBuV	dB	dB	dB	dBuV	dBuV/m	dB
1V	115.622	45.00	2.53	12.49	32.37	27.65	43.50	-15.85
2H	135.232	47.80	2.82	12.05	32.31	30.35	43.50	-13.15
3V	135.530	55.20	2.82	12.04	32.31	37.75	43.50	-5.75
4V	135.531Qp	51.22	2.82	12.04	32.31	33.77	43.50	-9.73
5H	140.080	50.20	2.91	11.90	32.28	32.74	43.50	-10.76
6V	150.319	48.00	3.10	11.85	32.20	30.74	43.50	-12.76
7H	151.536	55.20	3.09	12.04	32.21	38.11	43.50	-5.39
8H	151.537Qp	50.96	3.09	12.04	32.21	33.87	43.50	-9.63
9H	178.874	51.30	2.92	14.78	32.40	36.59	43.50	-6.91
10V	180.894	45.00	2.92	14.65	32.40	30.18	43.50	-13.32
11H	184.506	52.40	2.94	14.86	32.40	37.80	43.50	-5.70
12H	188.962	48.30	2.96	15.11	32.40	33.96	43.50	-9.54
13H	314.683	52.60	3.66	12.87	32.27	36.86	46.00	-9.14
14V	314.695	44.10	3.66	12.87	32.27	28.36	46.00	-17.64
15H	338.688	48.40	3.76	13.12	32.22	33.06	46.00	-12.94
16V	338.754	50.90	3.76	13.12	32.22	35.56	46.00	-10.44
17H	405.524	49.20	4.36	13.84	32.18	35.22	46.00	-10.78
18V	406.490	51.30	4.37	13.87	32.17	37.36	46.00	-8.64
19H	474.327	45.40	5.00	15.46	32.00	33.86	46.00	-12.14
20H	542.354	41.70	5.37	16.22	31.83	31.46	46.00	-14.54

FCC Class B
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 Hitachi Antenna
Digital Portion - 1 GHz to 25 GHz

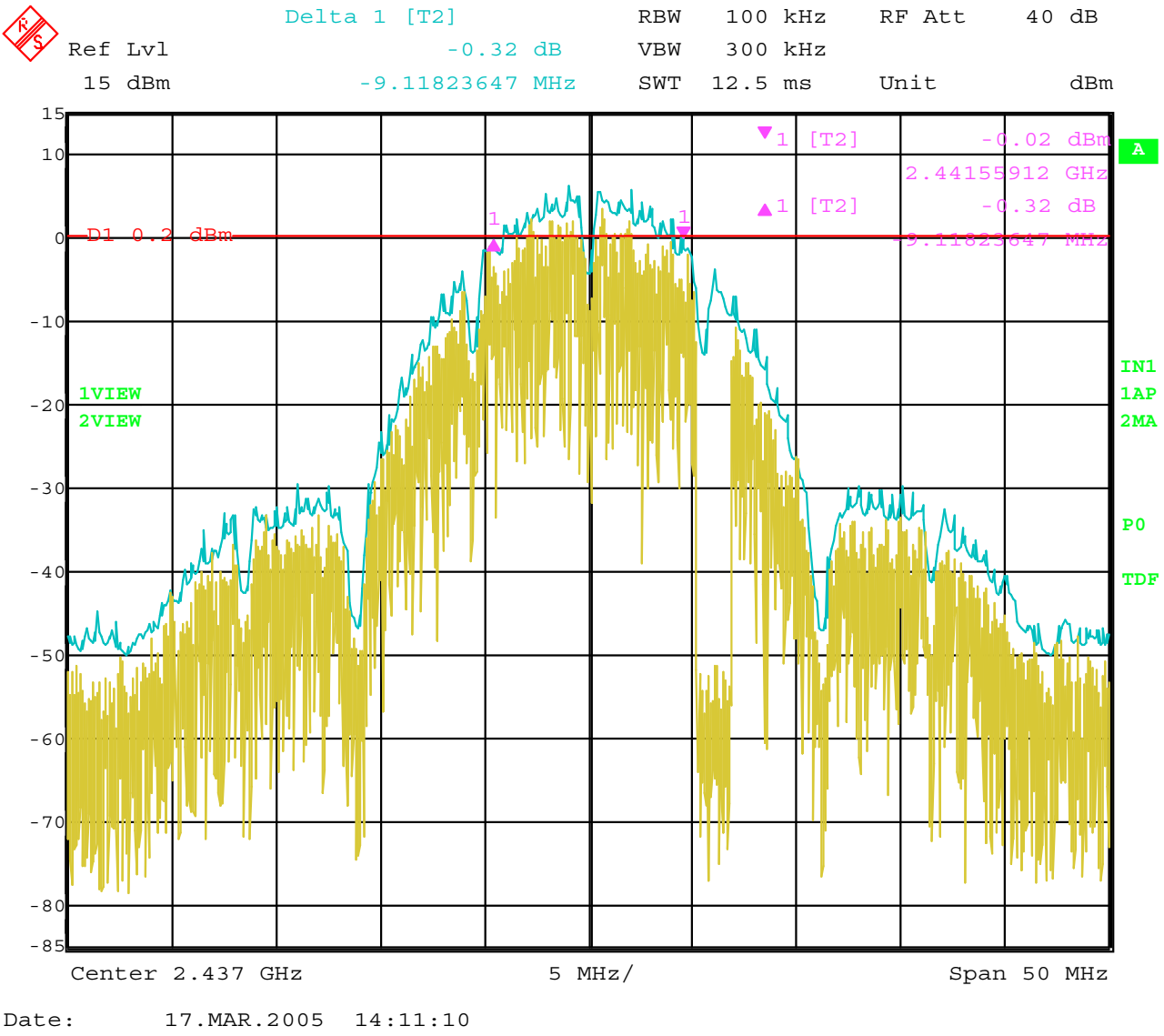
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1150	38.74	V	74	-35.26	Peak	3.41	45	
1150	23.68	V	54	-30.32	Avg	3.41	45	
1527.7	49.28	V	74	-24.72	Peak	2.35	90	
1527.7	34.86	V	54	-19.14	Avg	2.35	90	
2196.8	41.81	V	74	-32.19	Peak	2.36	135	
2196.8	30.83	V	54	-23.17	Avg	2.36	135	
1150	41.09	H	74	-32.91	Peak	2.24	225	
1150	21.86	H	54	-32.14	Avg	2.24	225	
1527.7	55.03	H	74	-18.97	Peak	2.24	315	
1527.7	39.7	H	54	-14.3	Avg	2.24	315	
2196.8	44.09	H	74	-29.91	Peak	1.12	315	
2196.8	36.74	H	54	-17.26	Avg	1.12	315	

-6 dB BANDWIDTH

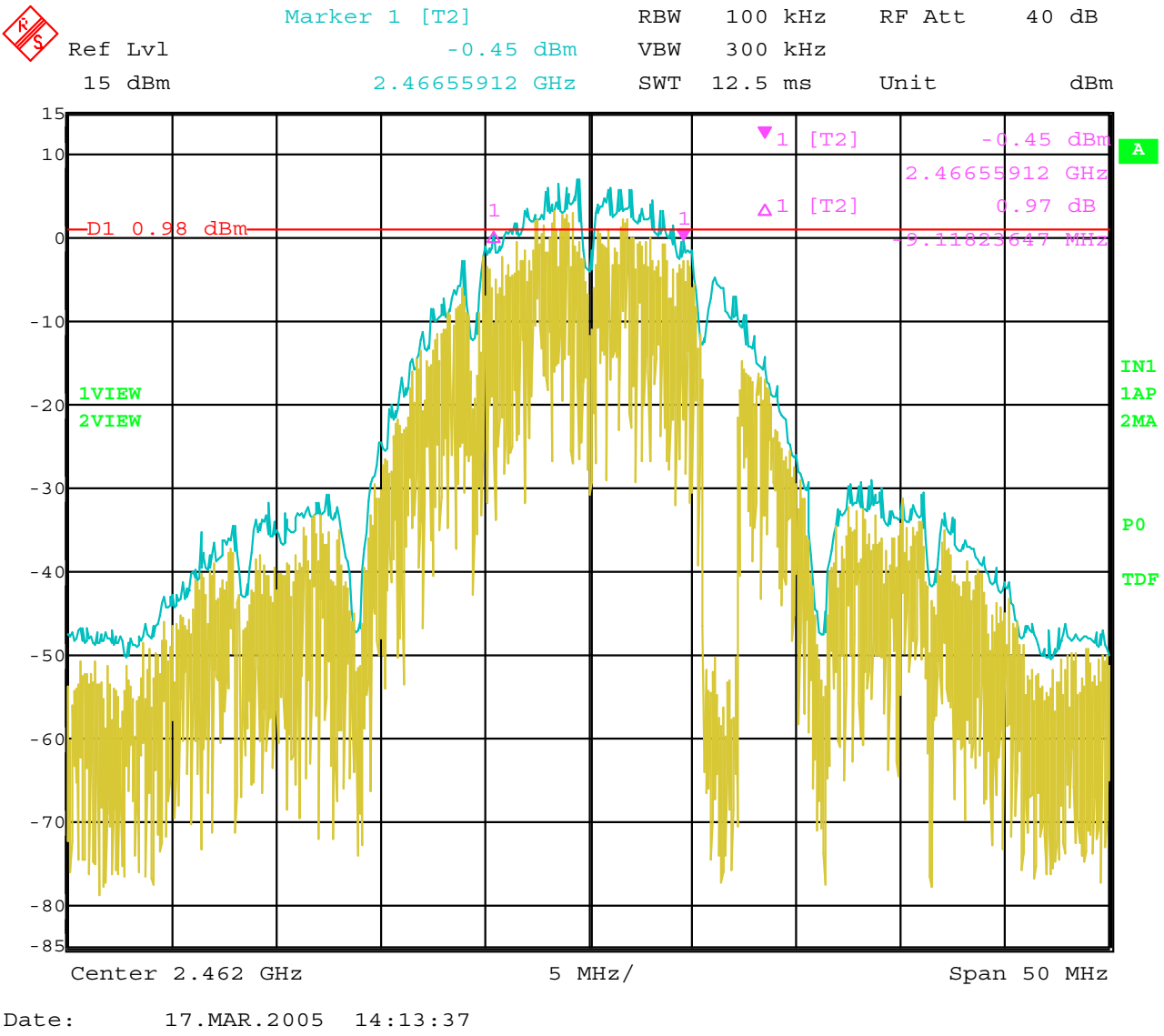
DATA SHEETS



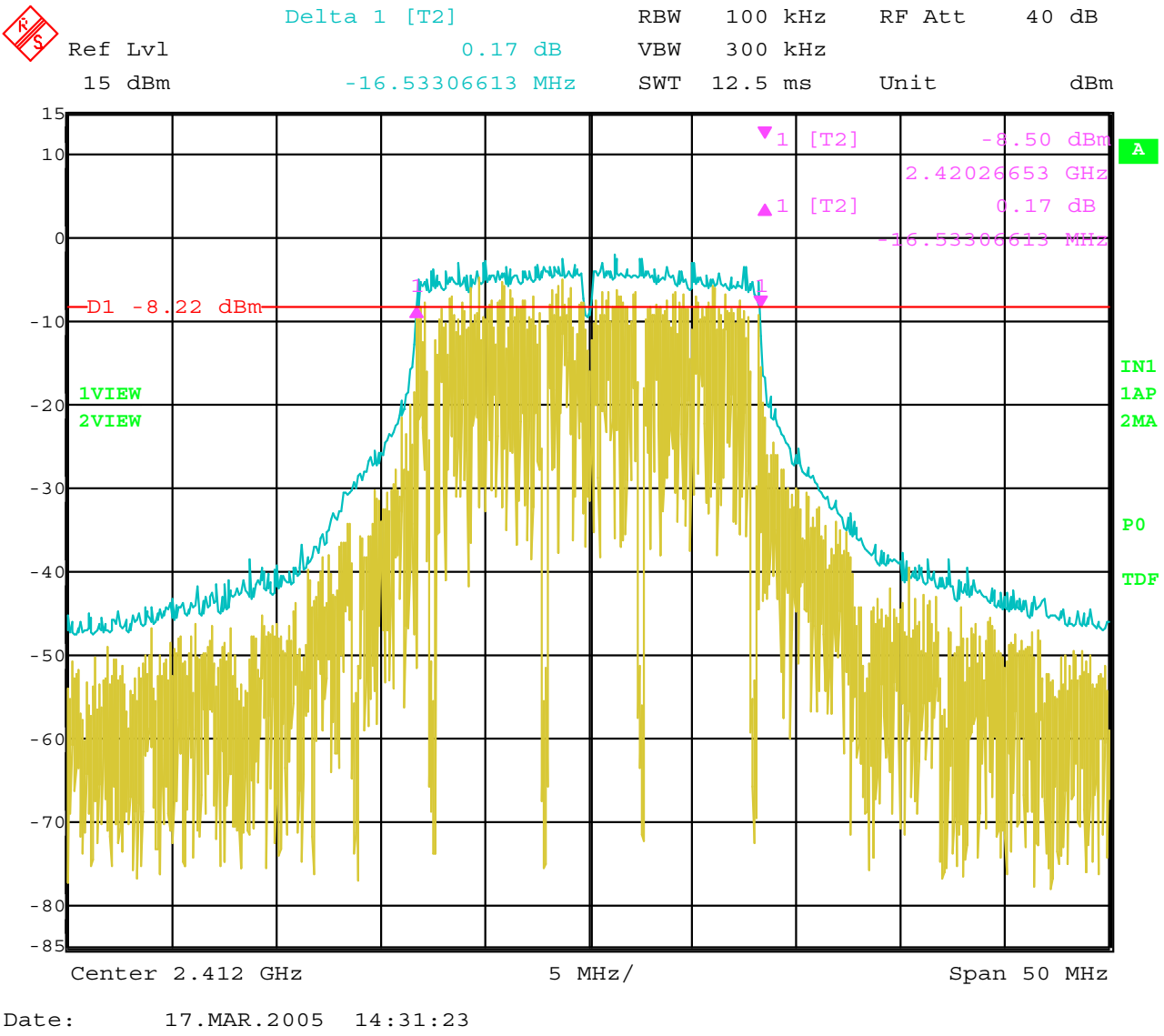
Bandwidth 6 dB – Channel 1 – 802.11 b Mode – Hitachi Antenna



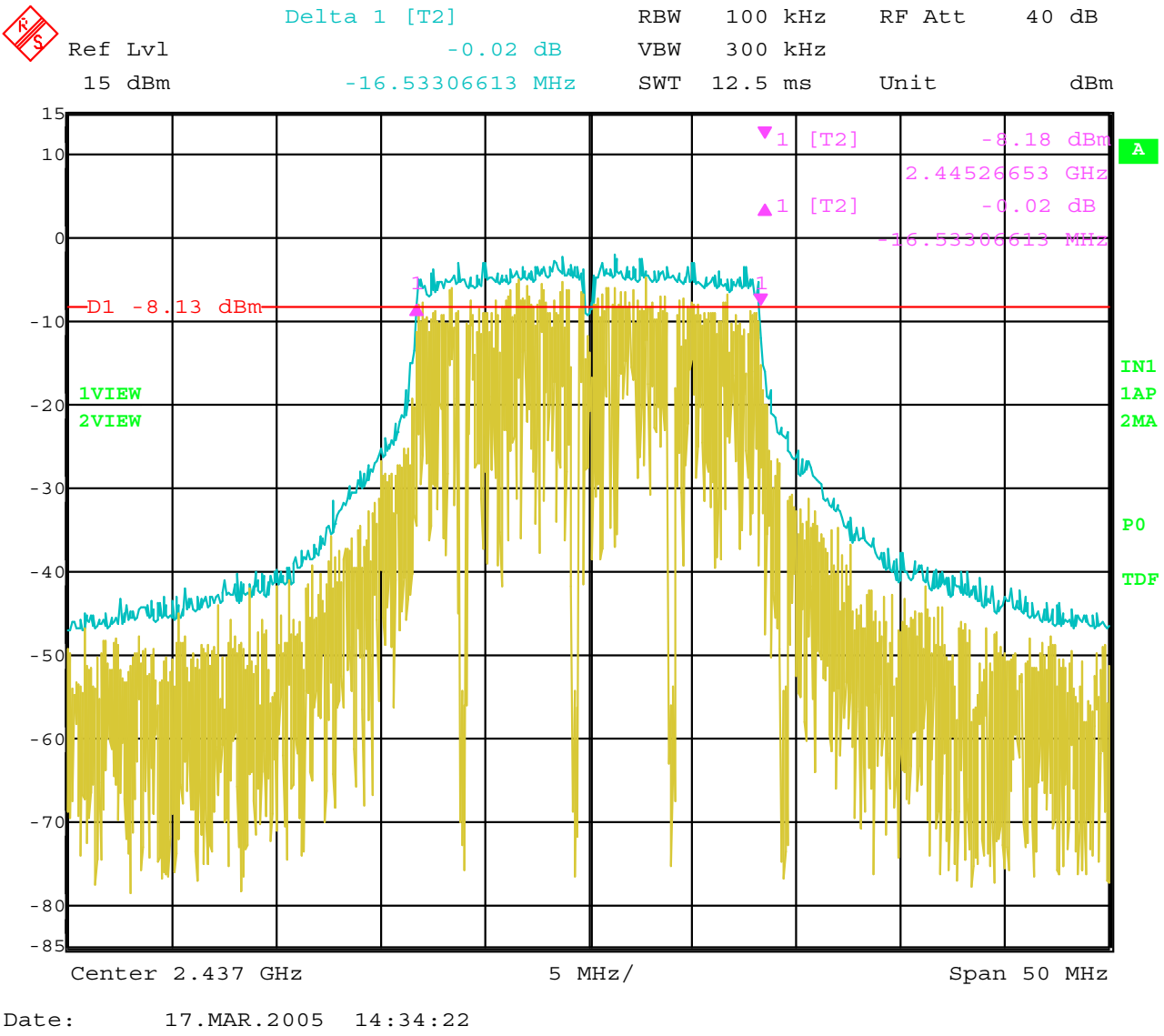
Bandwidth 6 dB – Channel 6 – 802.11 b Mode – Hitachi Antenna



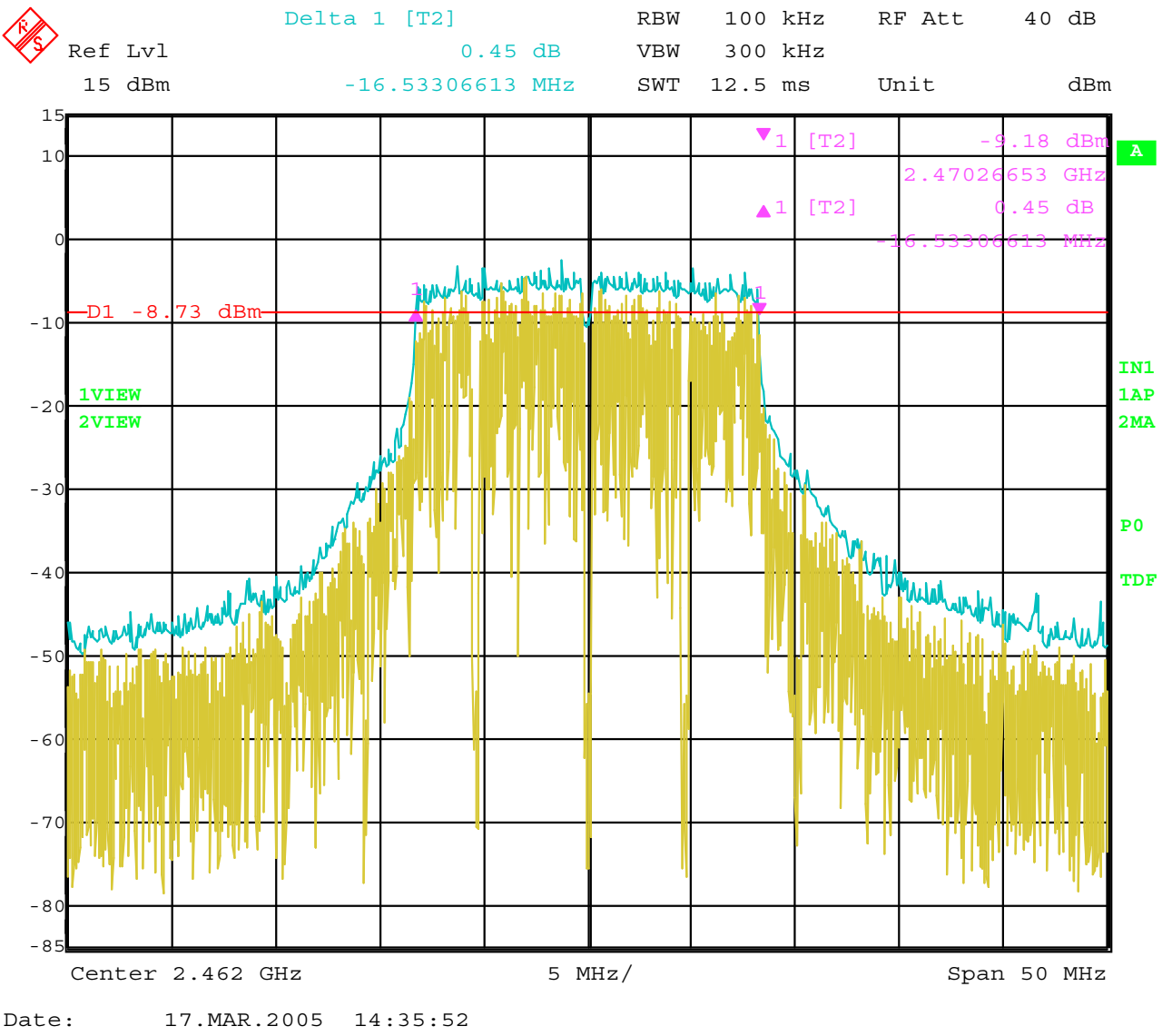
Bandwidth 6 dB – Channel 11 – 802.11 b Mode – Hitachi Antenna



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



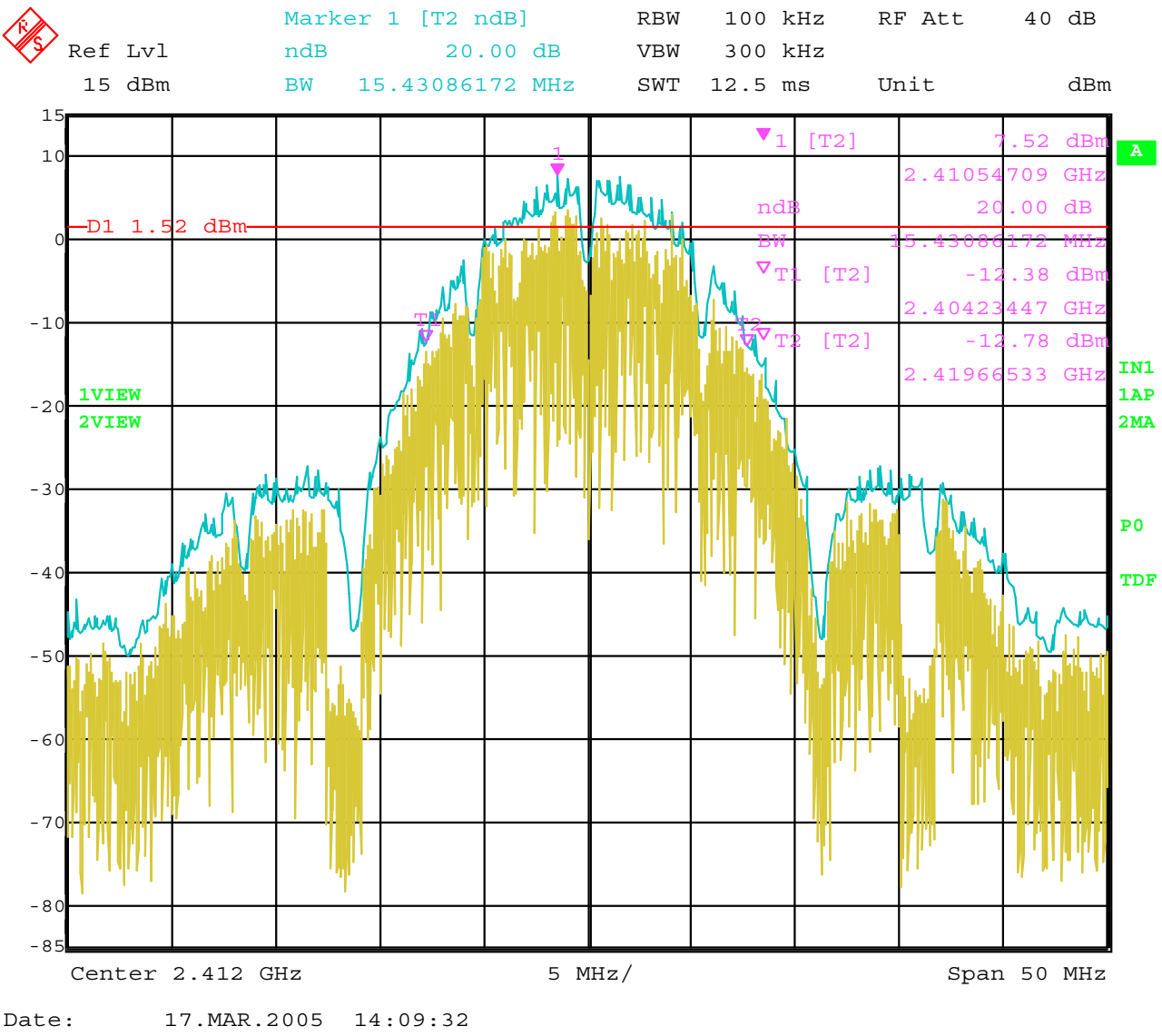
Bandwidth 6 dB – Channel 6 – 802.11 g Mode – Hitachi Antenna



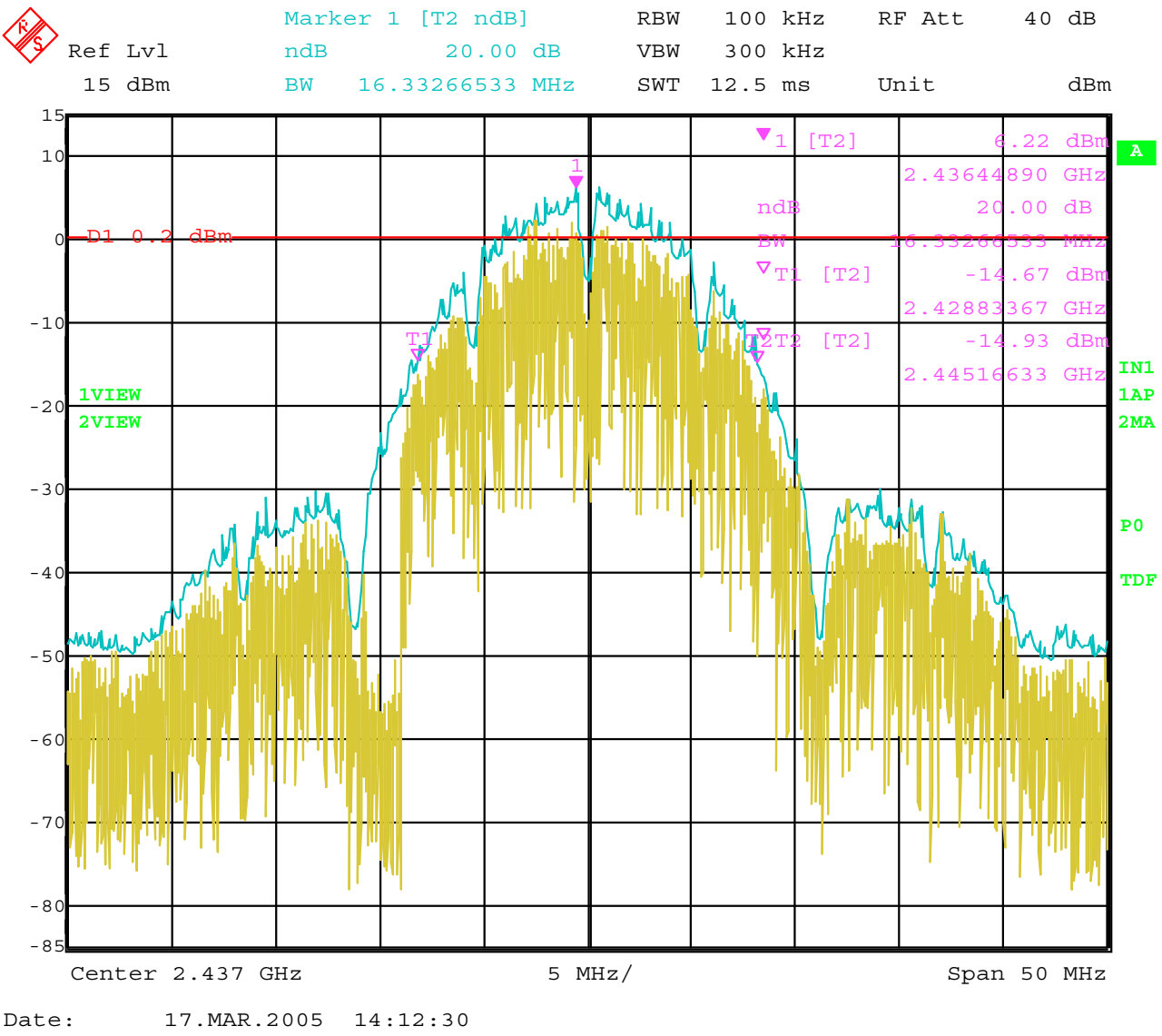
Bandwidth 6 dB – Channel 11 – 802.11 g Mode – Hitachi Antenna

-20 dB BANDWIDTH

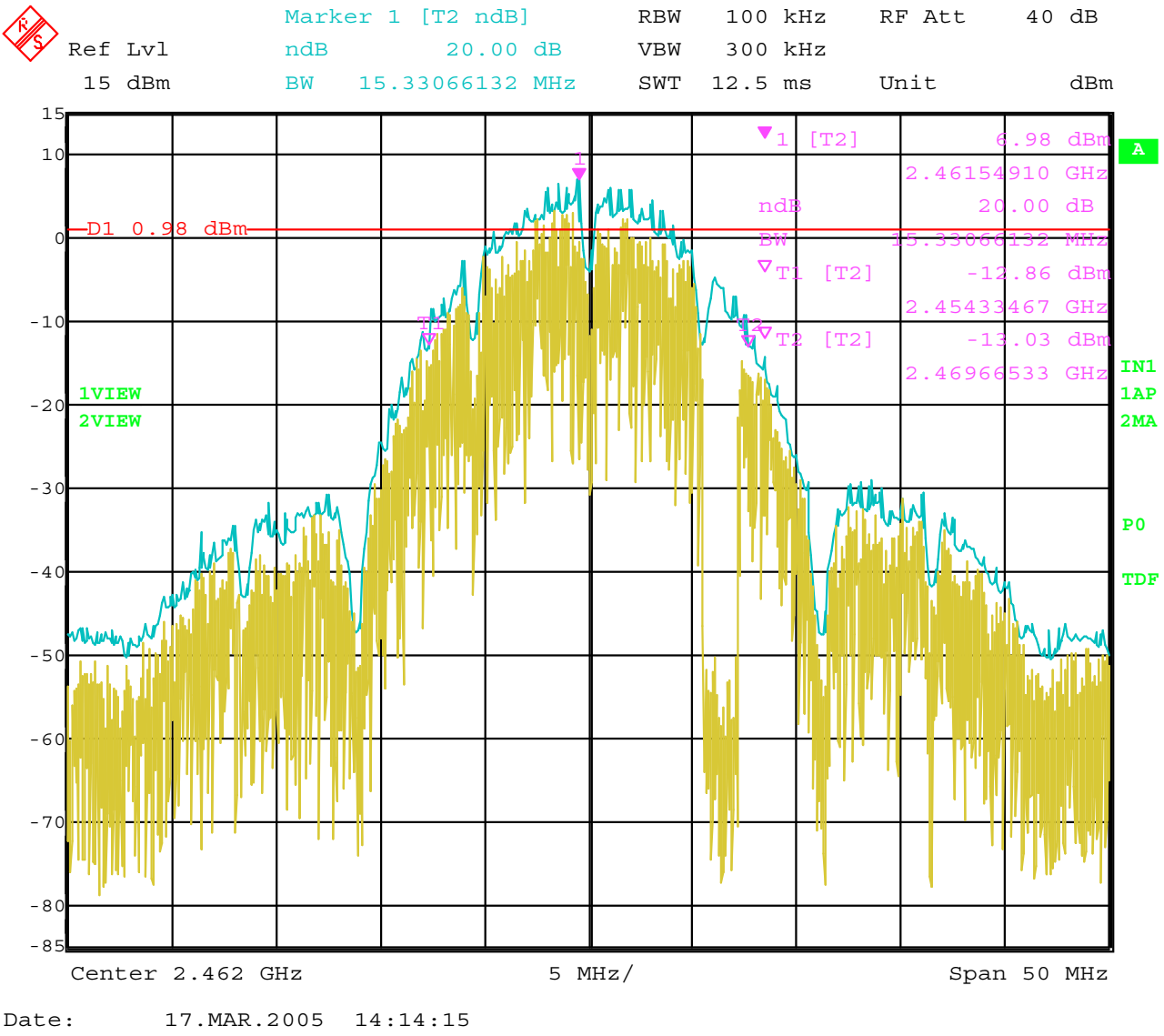
DATA SHEETS



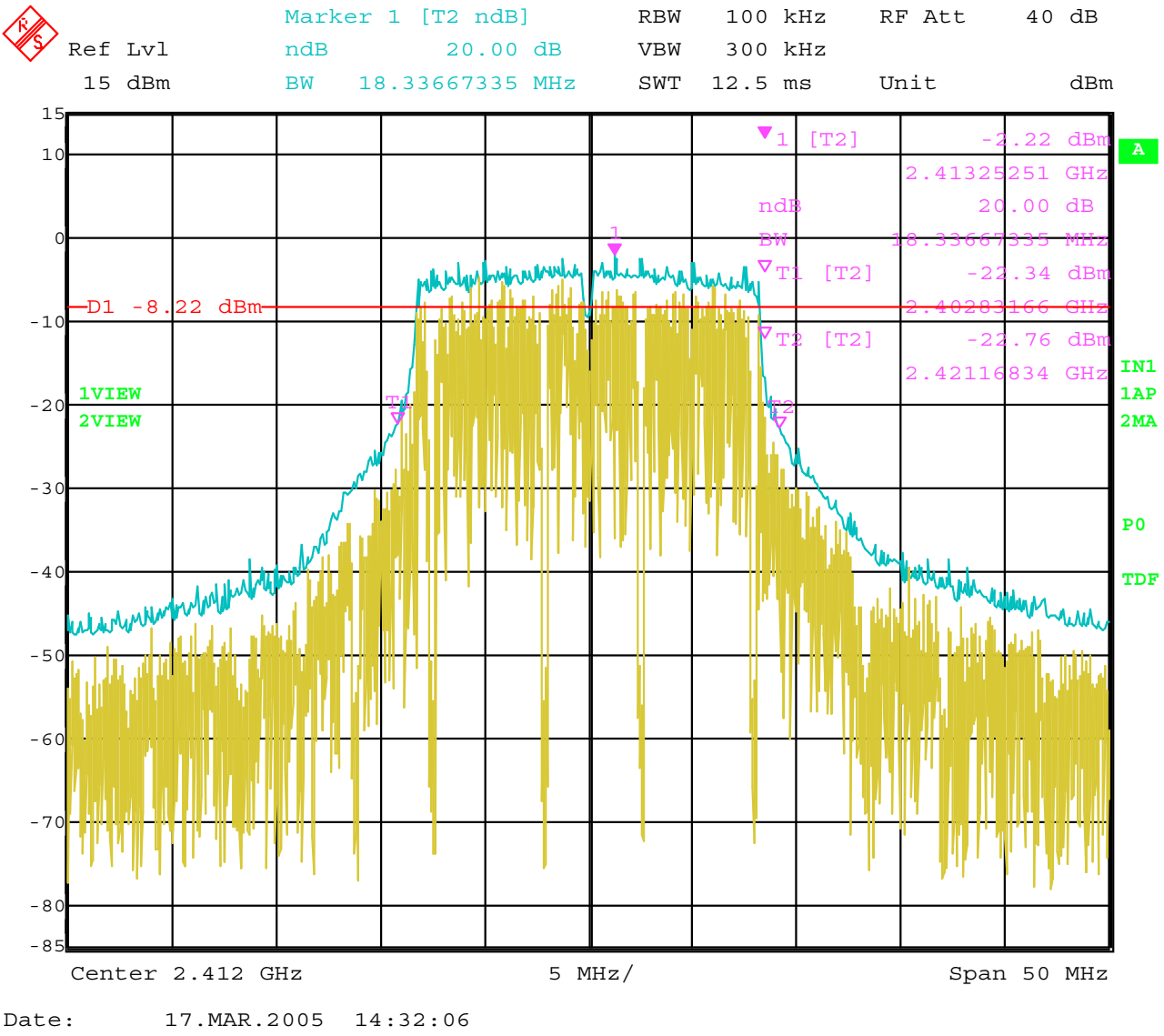
Bandwidth 20 dB – Channel 1 – 802.11 b Mode – Hitachi Antenna



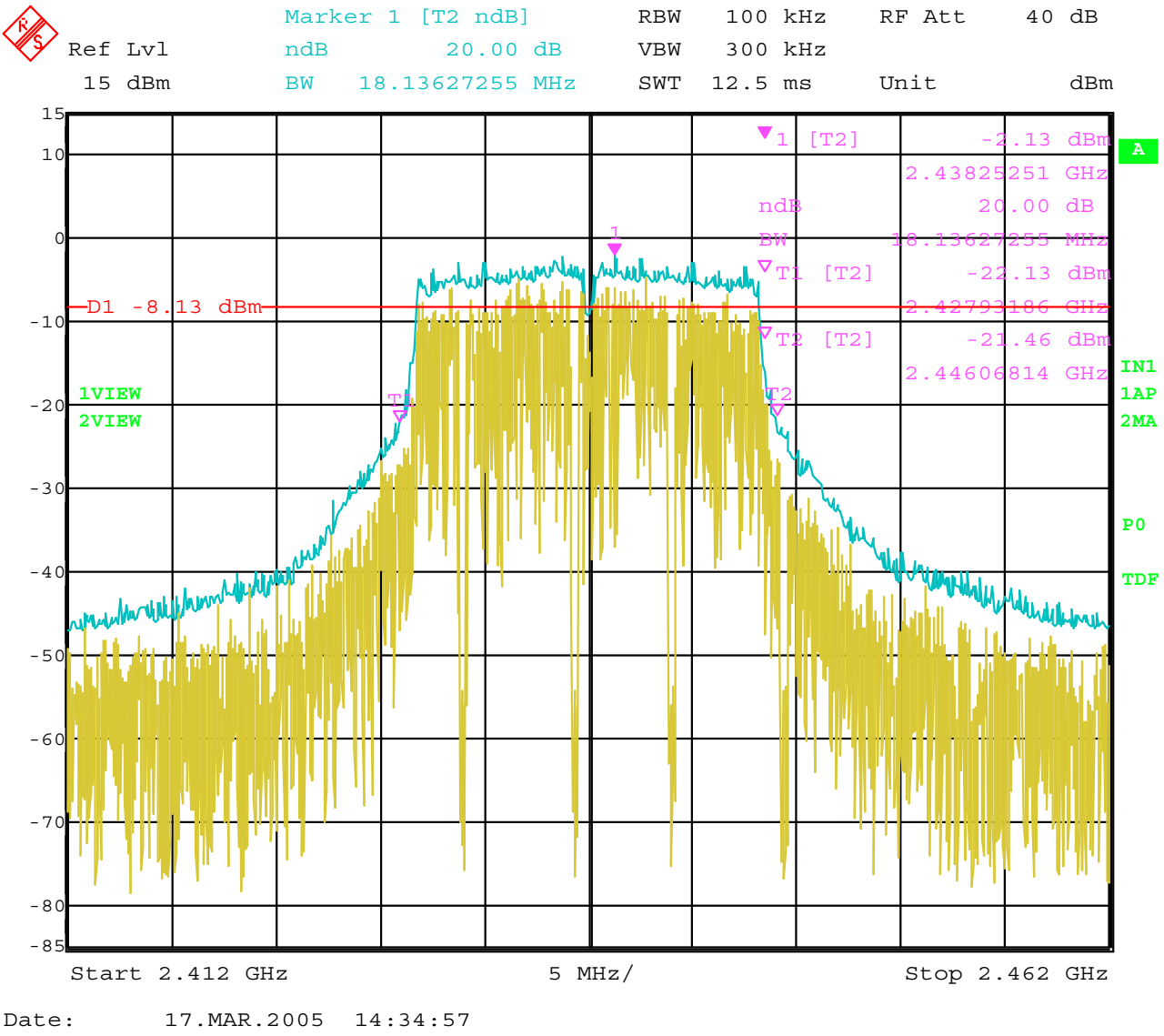
Bandwidth 20 dB – Channel 6 – 802.11 b Mode – Hitachi Antenna



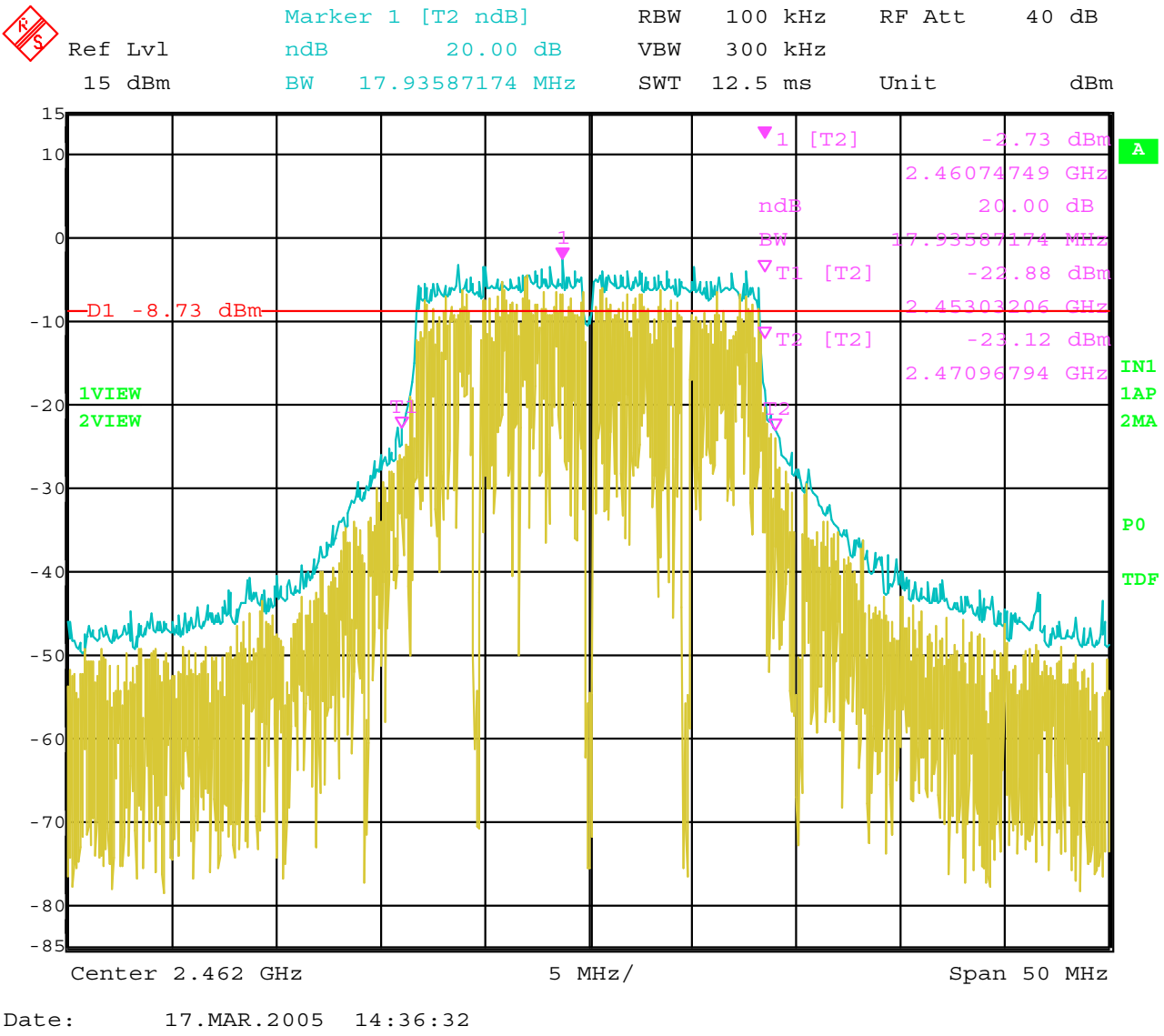
Bandwidth 20 dB – Channel 11 – 802.11 b Mode – Hitachi Antenna



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



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



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

802.11 b Mode (Worst Case Rate is 1 Mbps)

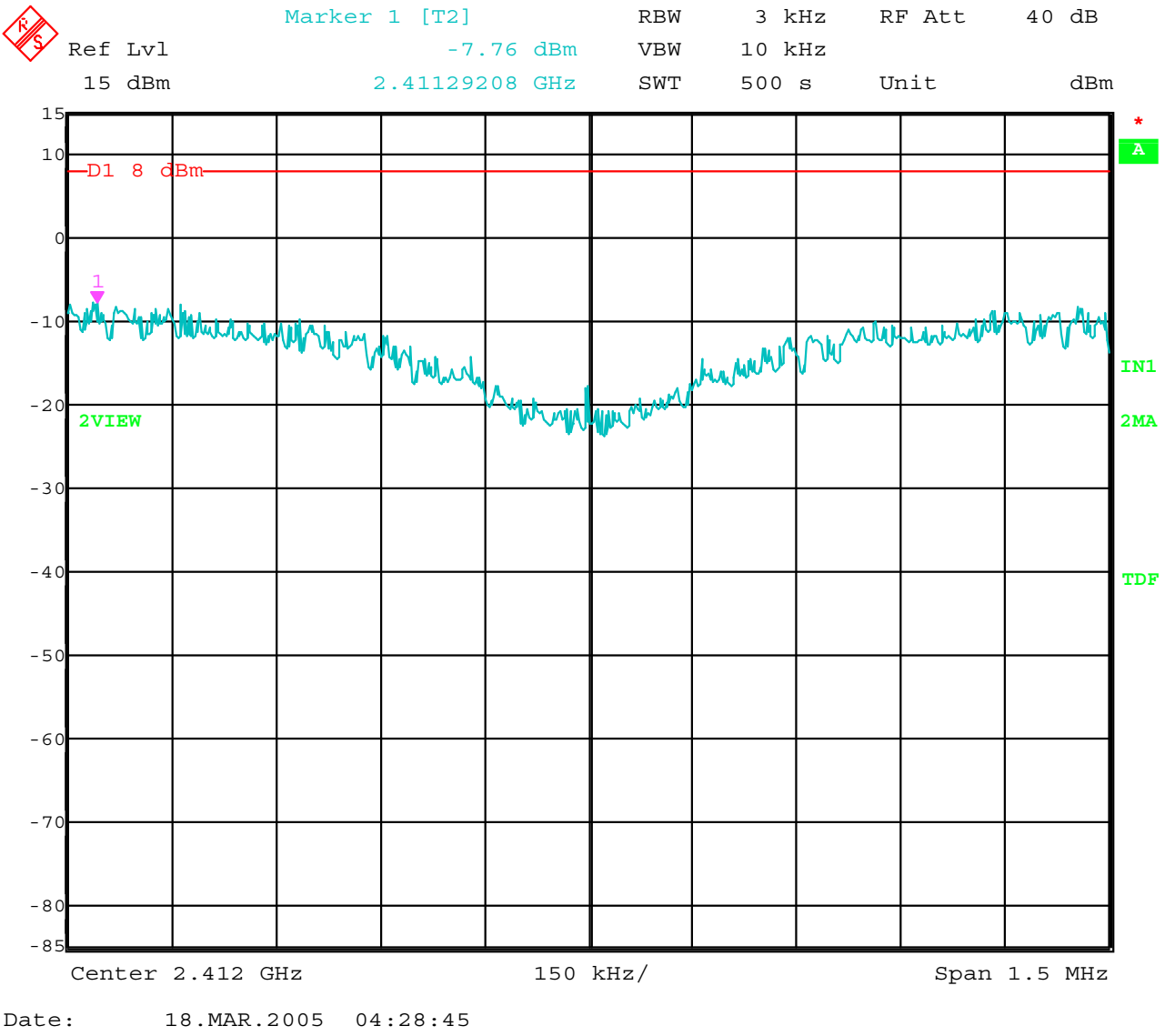
CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	30.0	17.66
6 (2437 MHz)	30.0	17.55
11 (2462 MHz)	30.0	17.65

802.11 g Mode (Worst Case Rate is 6 Mbps)

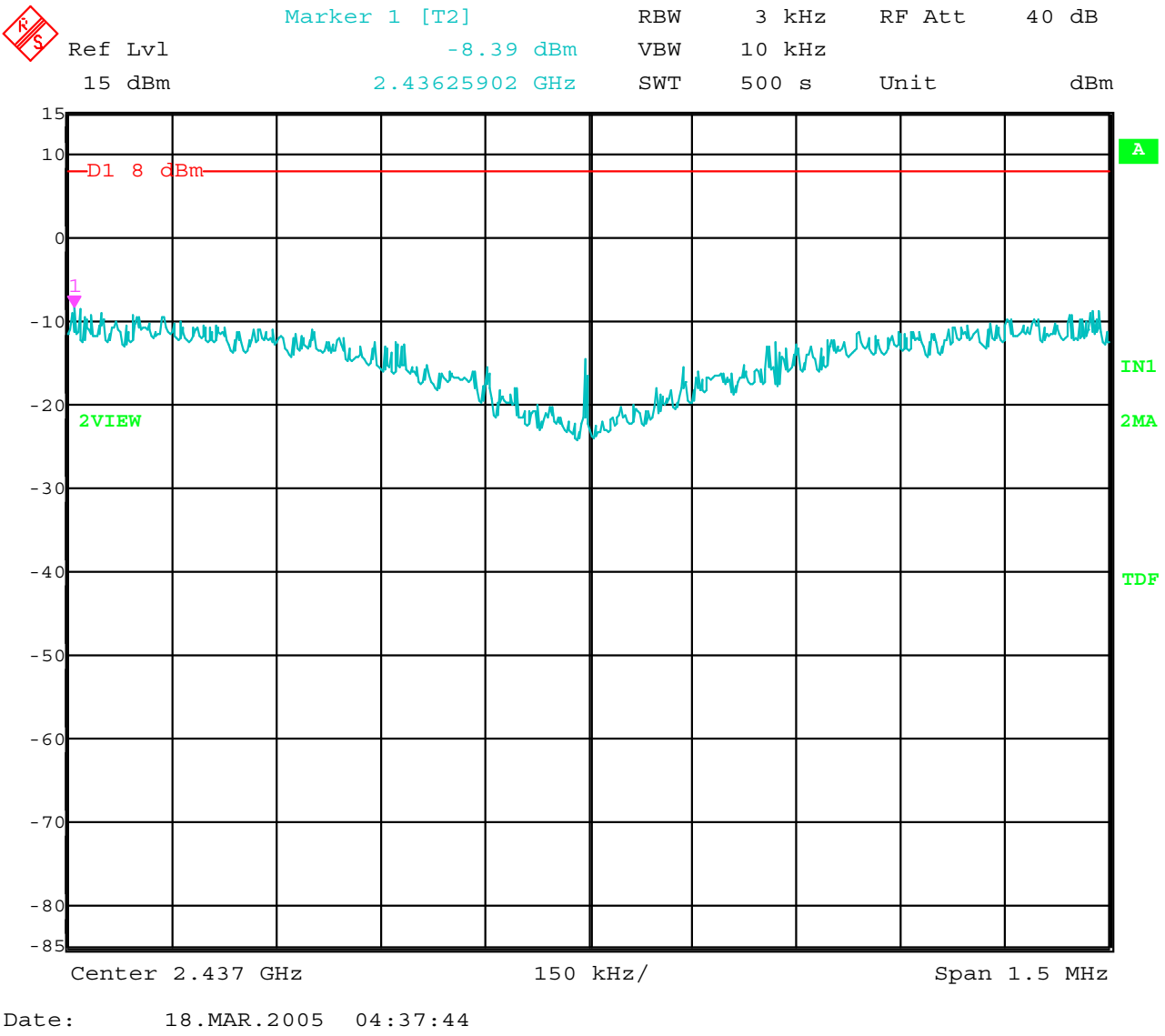
CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	24.0	16.49
6 (2437 MHz)	24.0	16.62
11 (2462 MHz)	23.5	16.32

PEAK POWER SPECTRAL DENSITY

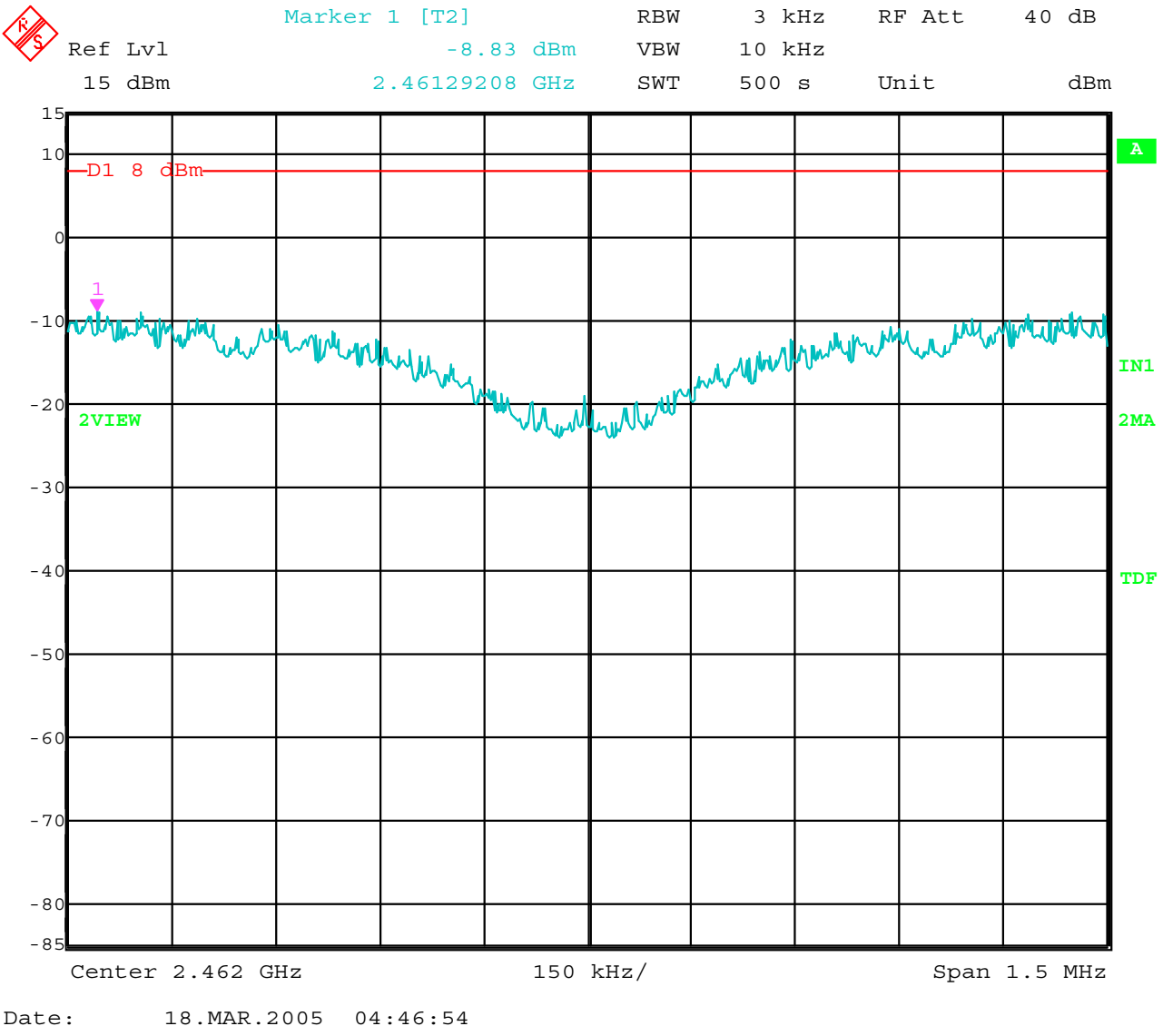
DATA SHEETS



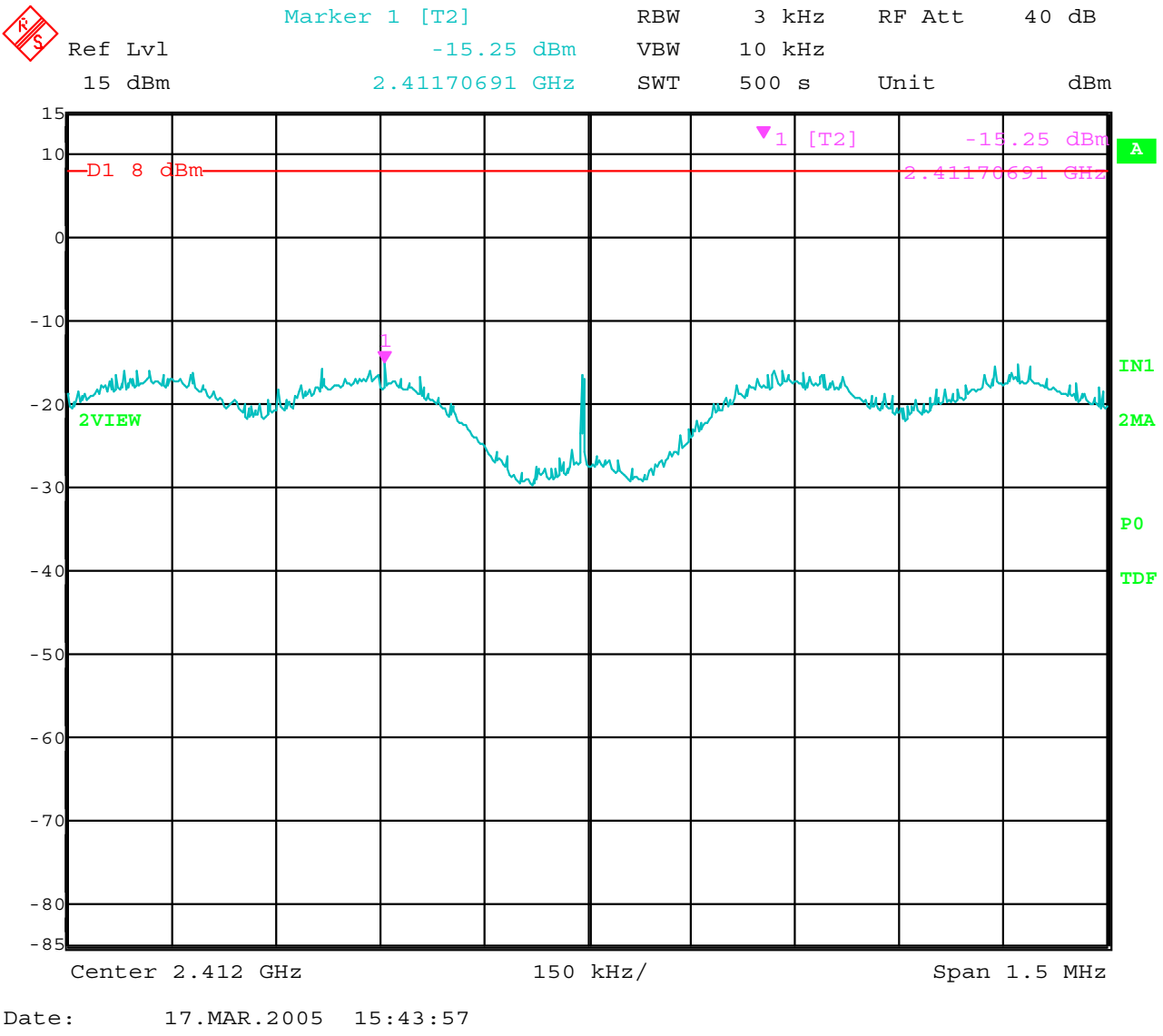
Peak Power Spectral Density – Channel 1 – 802.11 b Mode – Hitachi Antenna



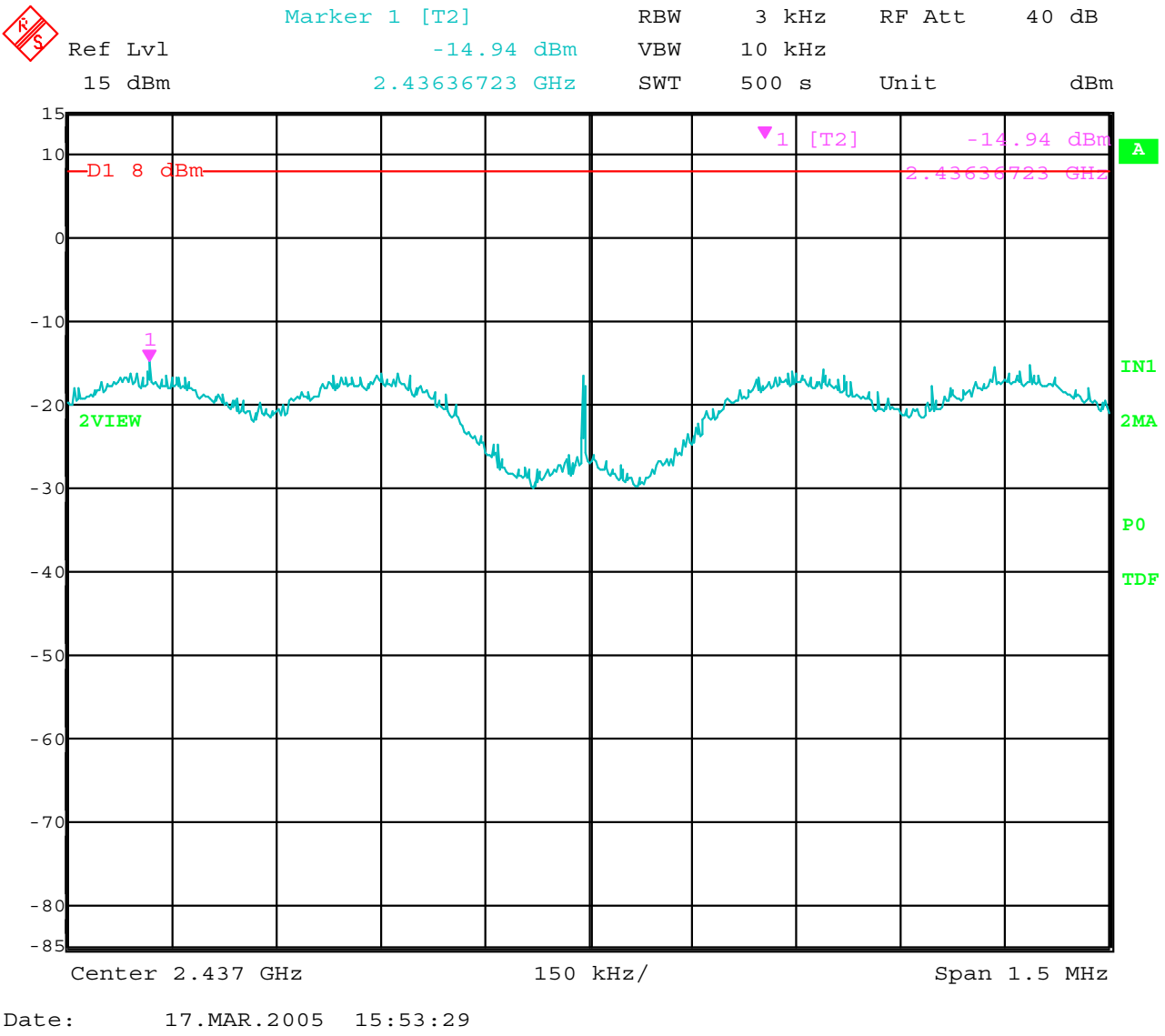
Peak Power Spectral Density – Channel 6 – 802.11 b Mode – Hitachi Antenna



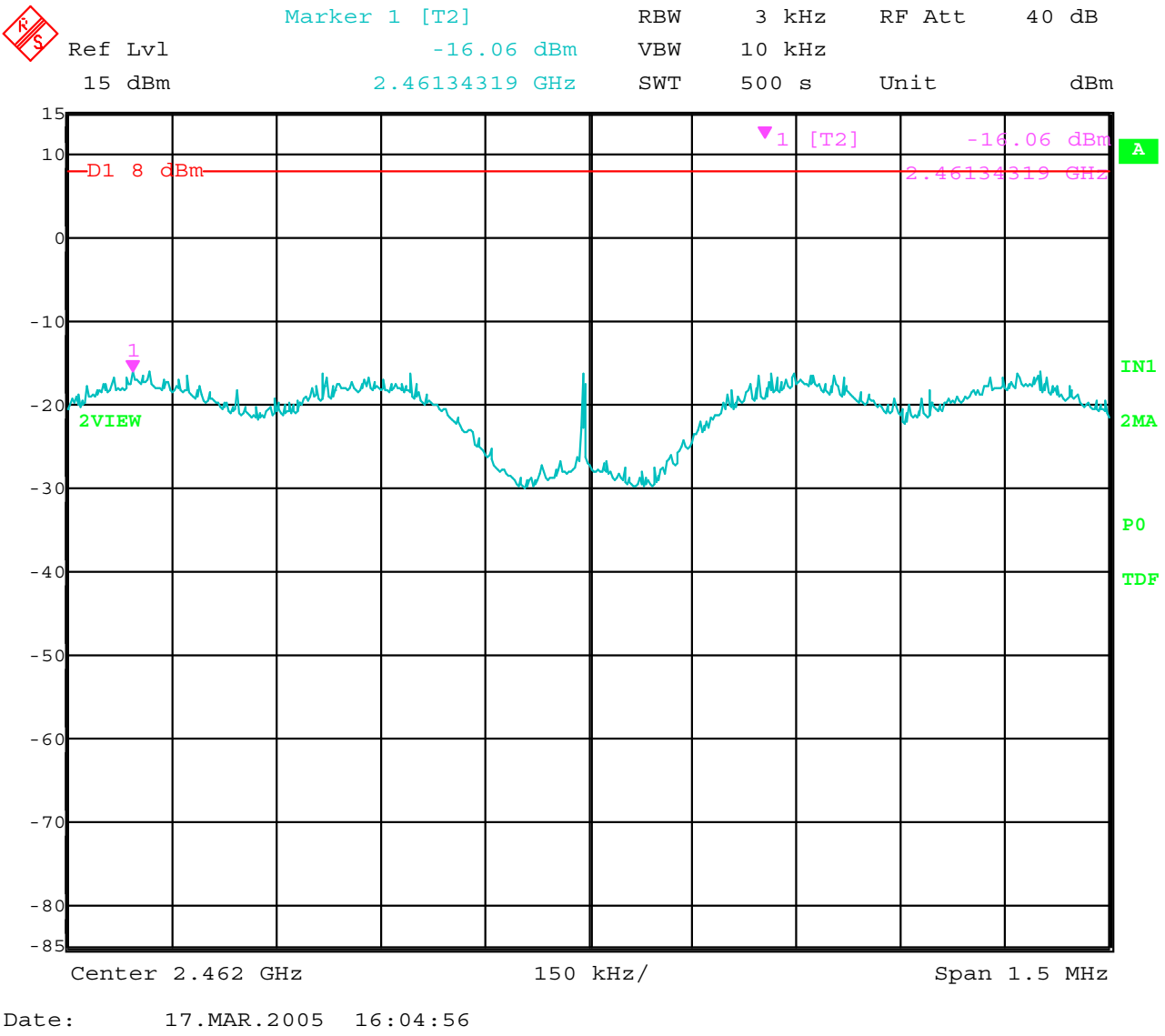
Peak Power Spectral Density – Channel 11 – 802.11 b Mode – Hitachi Antenna



Peak Power Spectral Density – Channel 1 – 802.11 g Mode – Hitachi Antenna



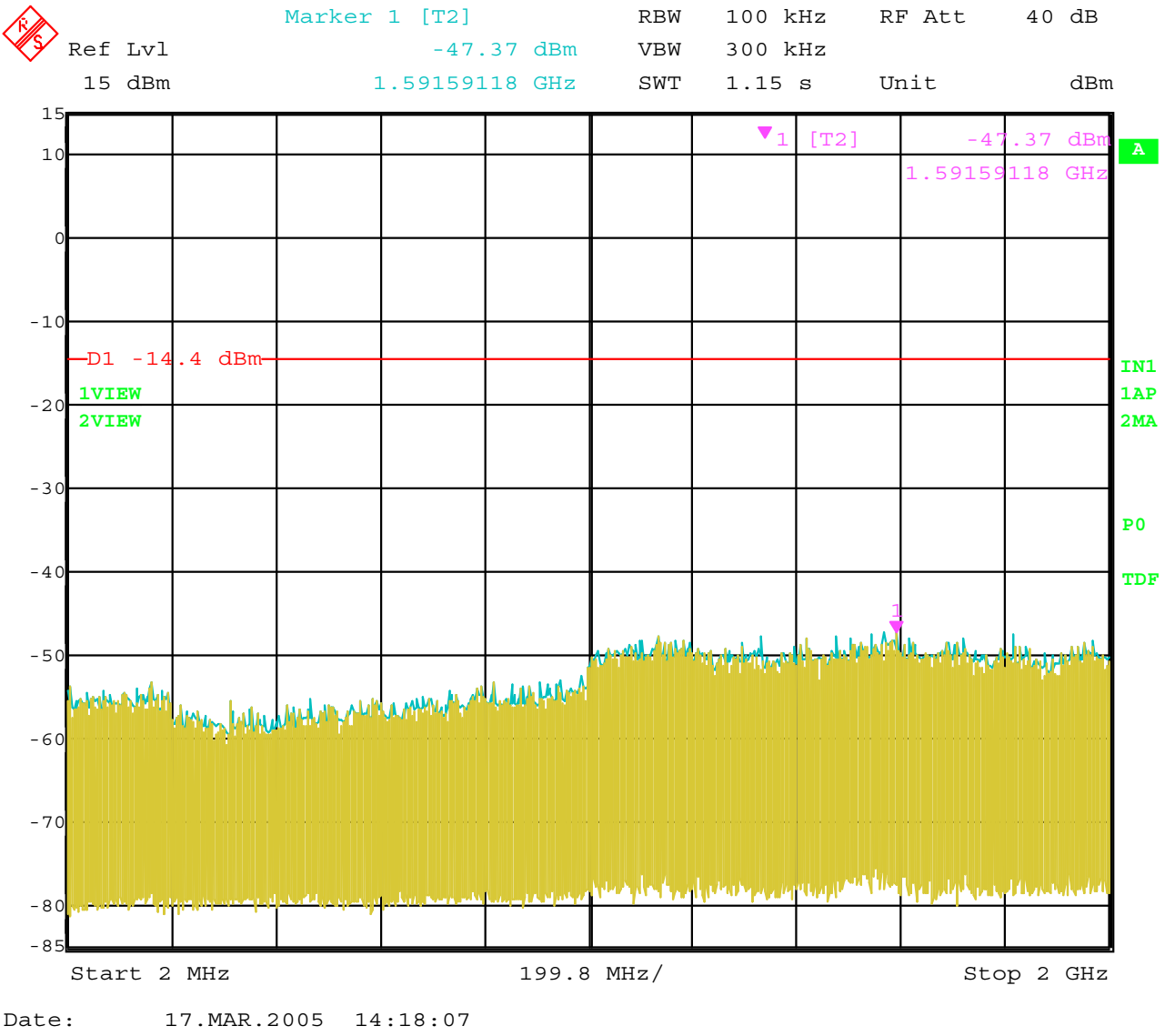
Peak Power Spectral Density – Channel 6 – 802.11 g Mode – Hitachi Antenna



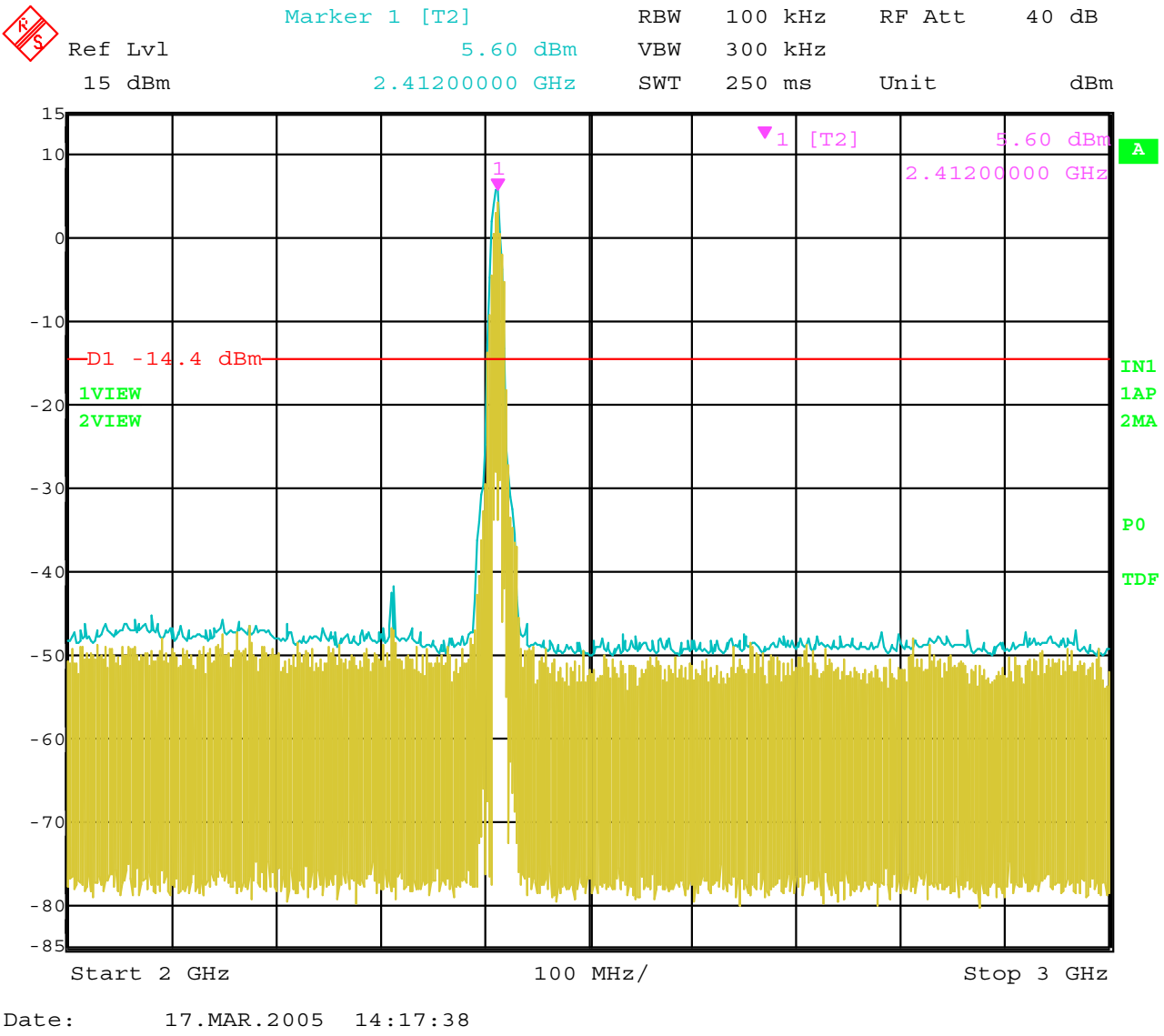
Peak Power Spectral Density – Channel 11 – 802.11 g Mode – Hitachi Antenna

RF ANTENNA CONDUCTED

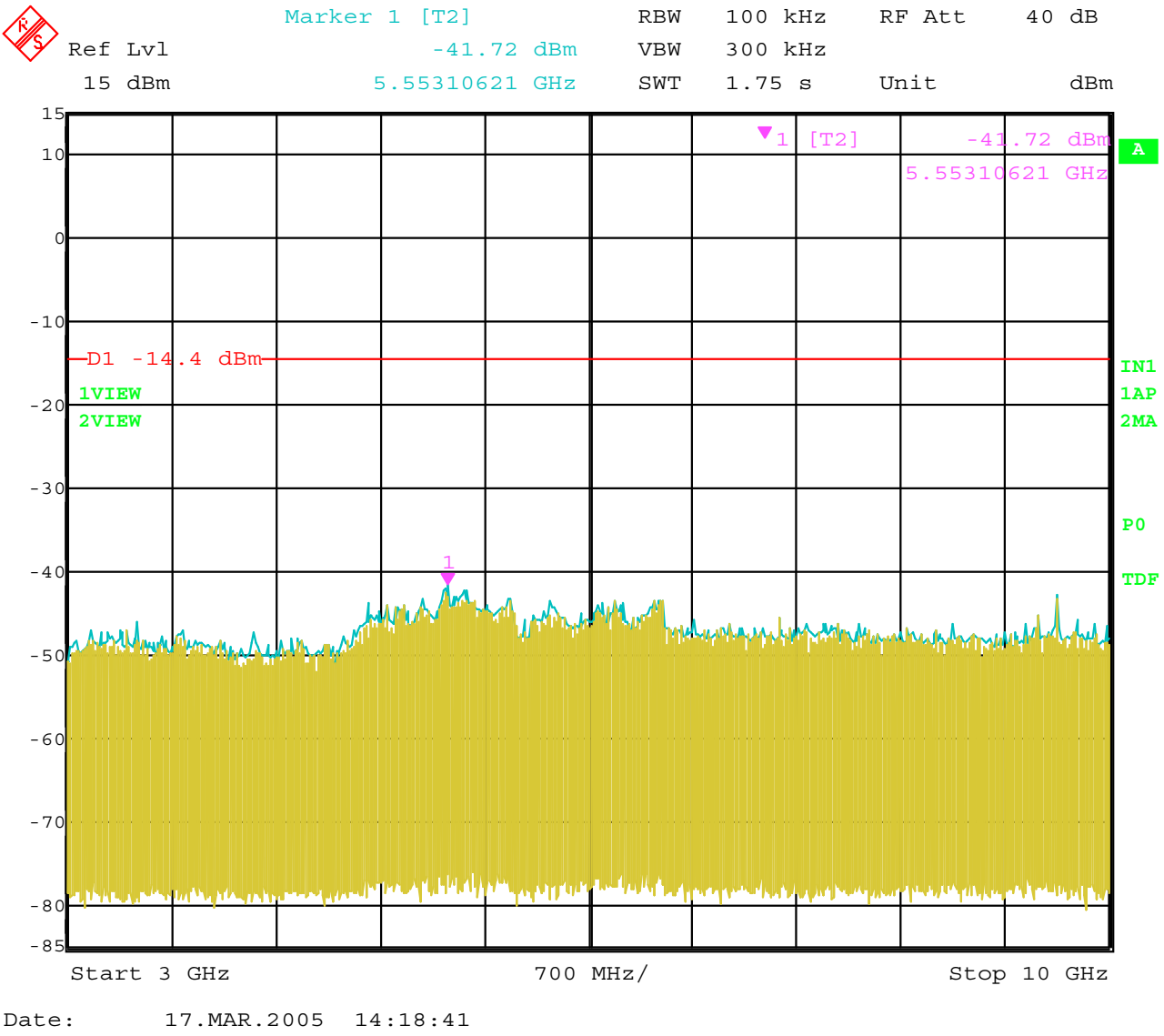
DATA SHEETS



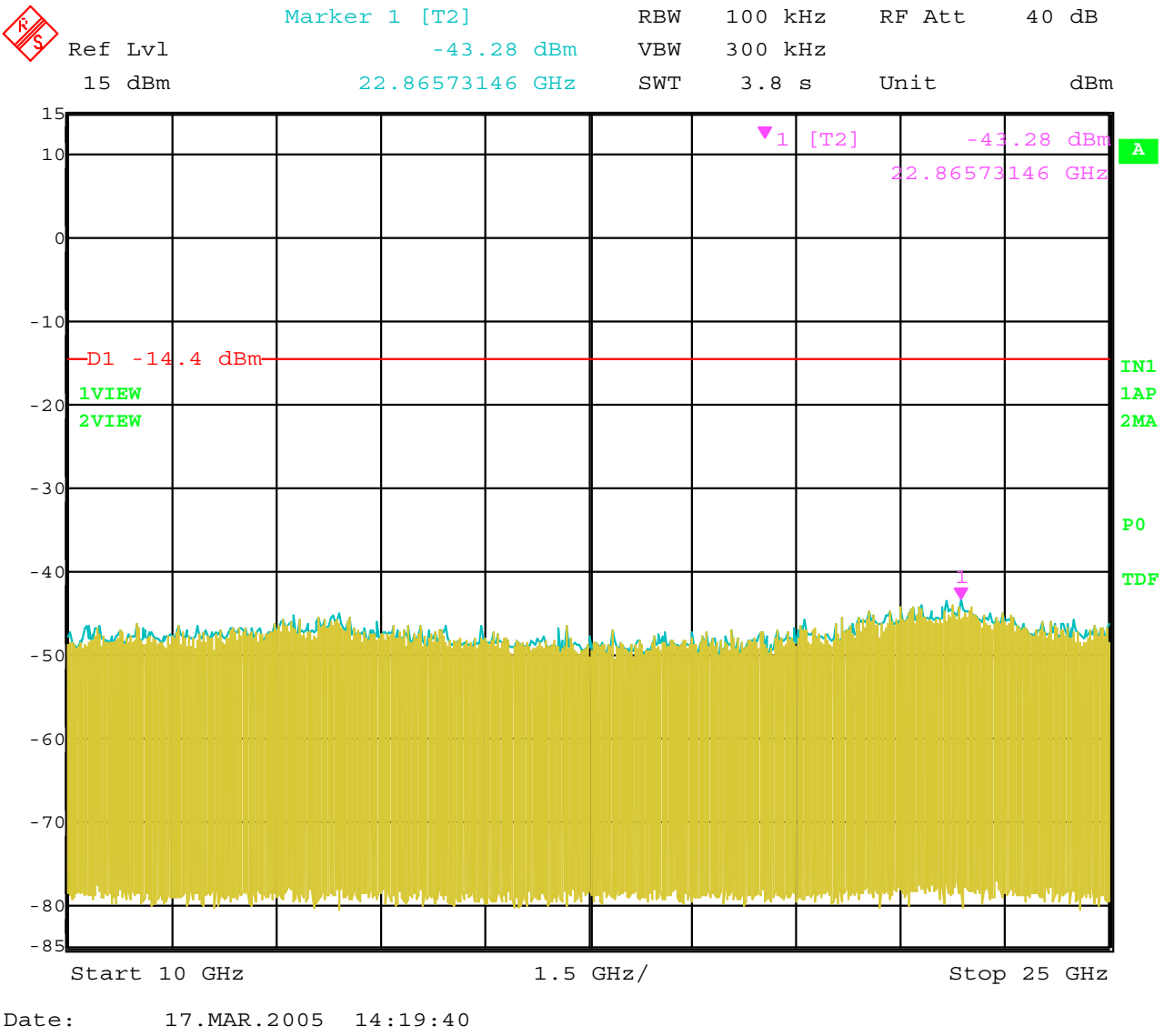
RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – Hitachi Antenna – 2 MHz to 2 GHz



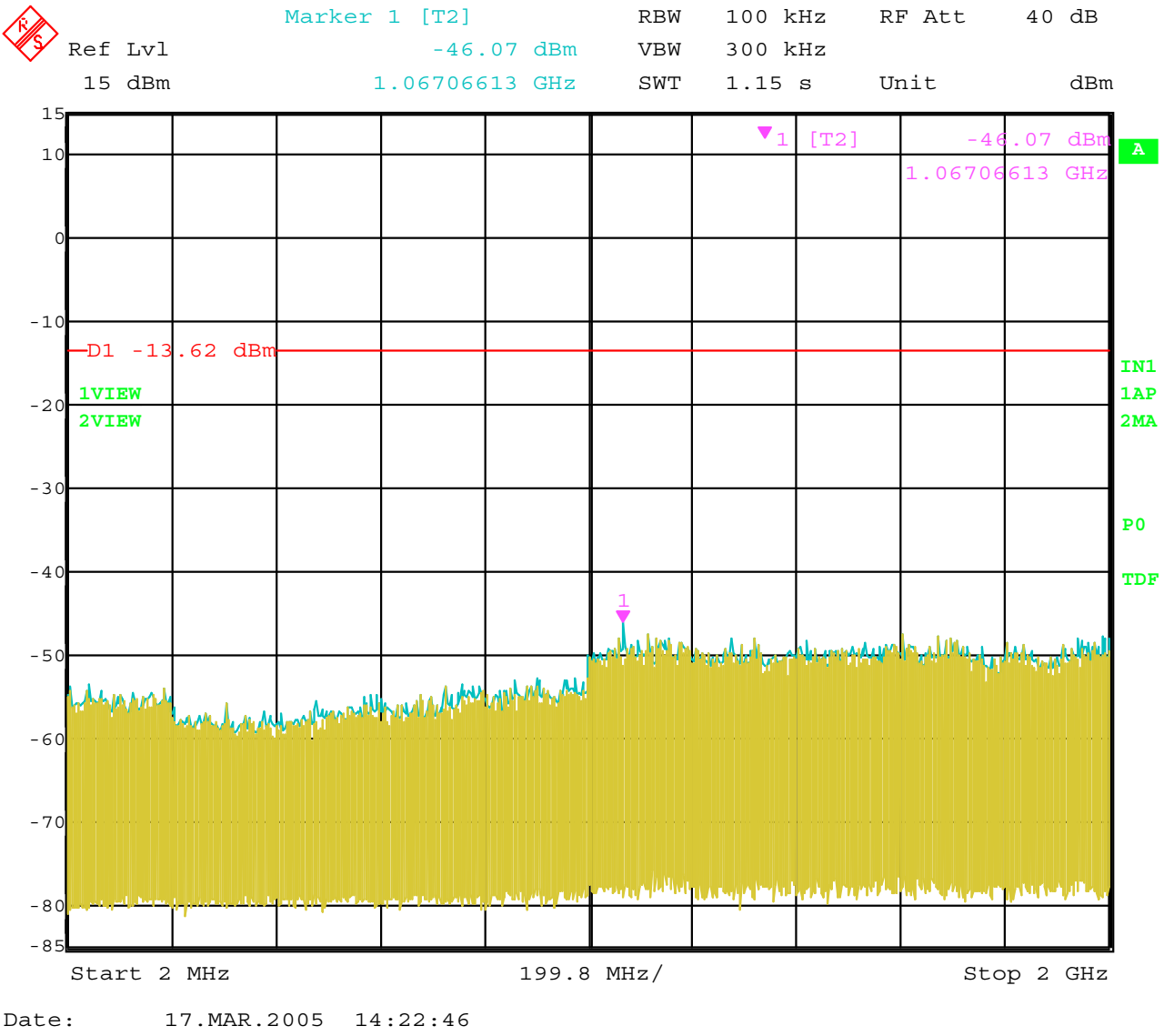
RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – Hitachi Antenna – 2 GHz to 3 GHz



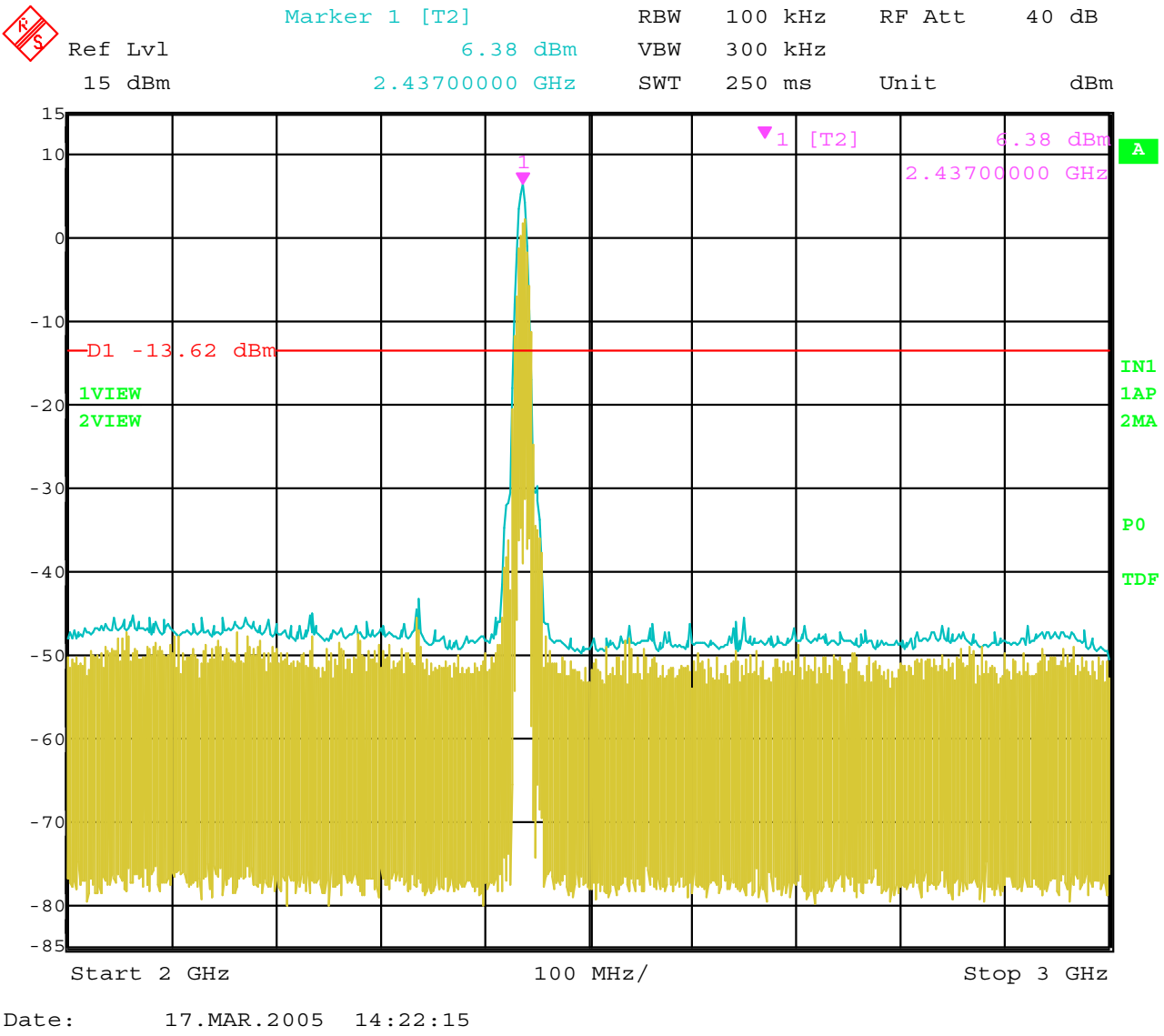
RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – Hitachi Antenna – 3 MHz to 10 GHz



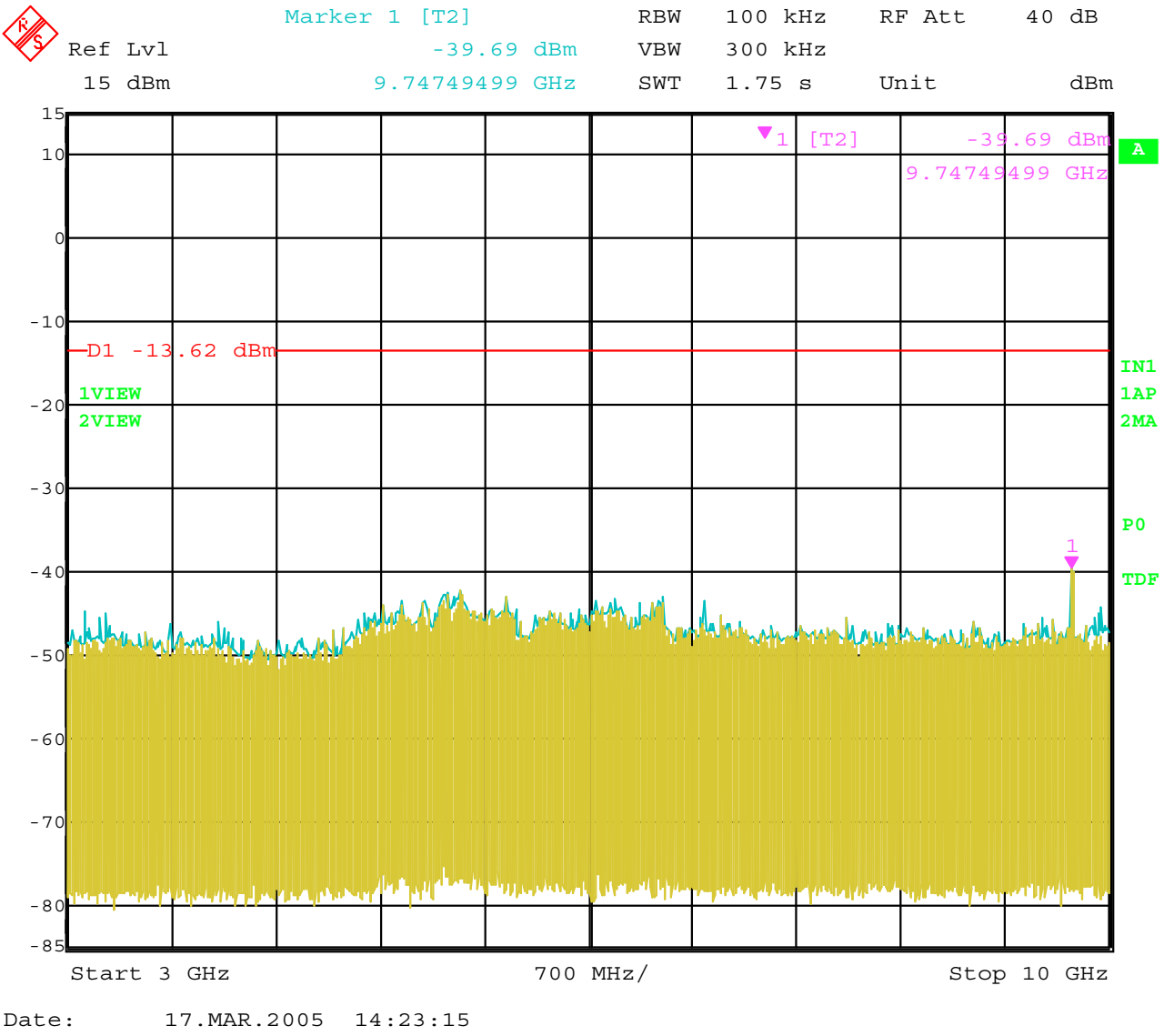
RF Antenna Conducted Test – Channel 1 – 802.11 b Mode – Hitachi Antenna – 10 GHz to 25 GHz



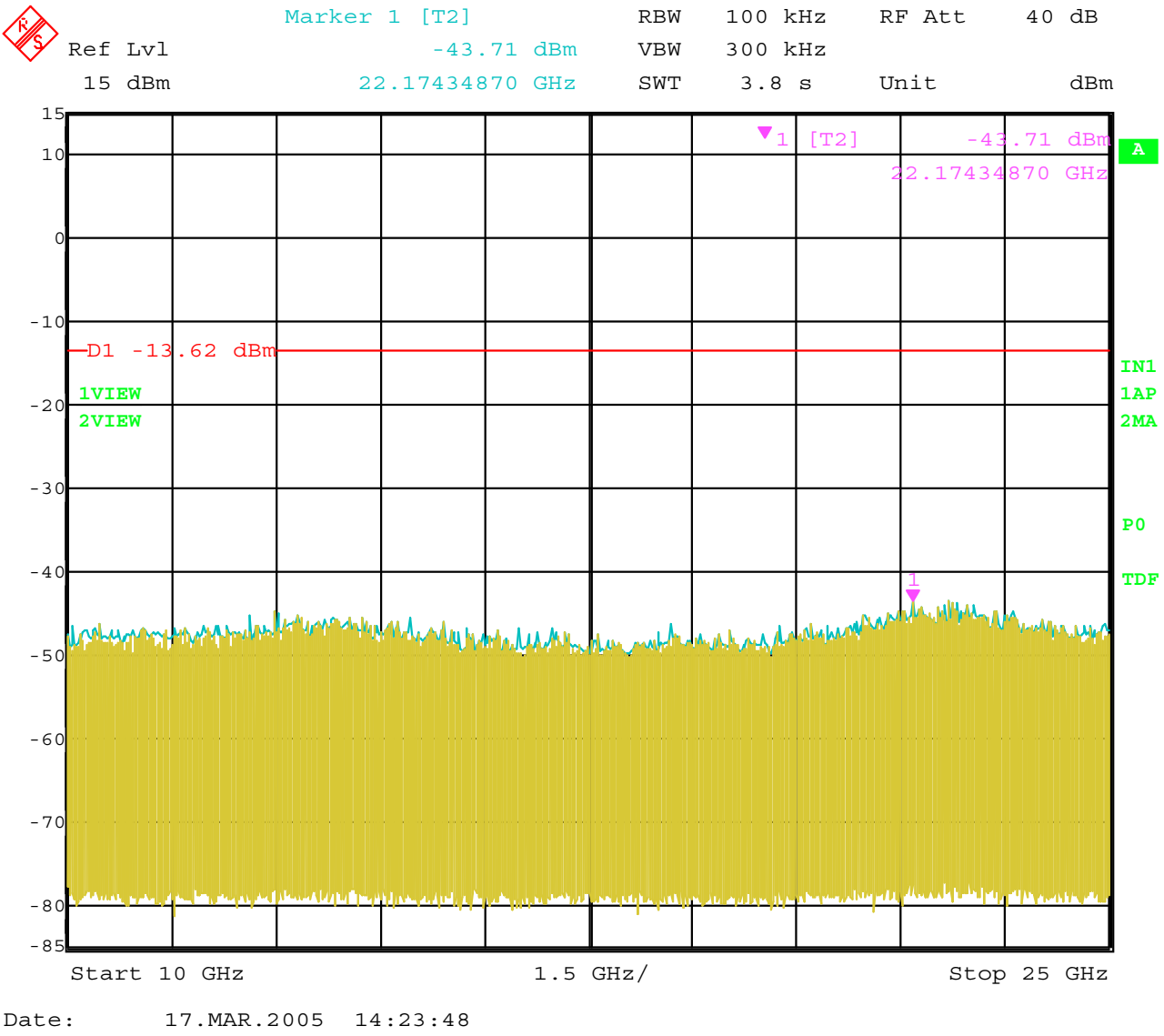
RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – Hitachi Antenna – 2 MHz to 2 GHz



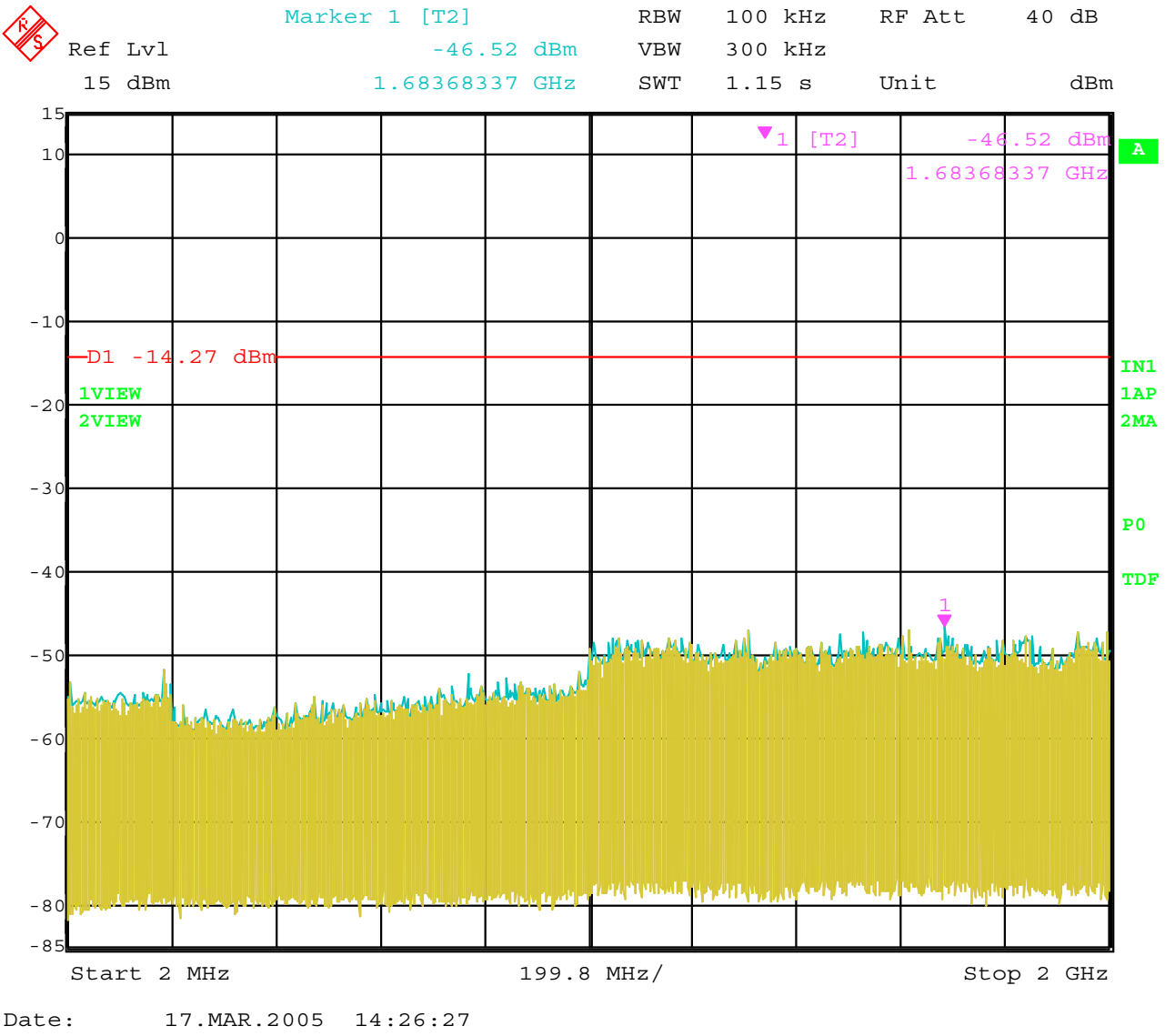
RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – Hitachi Antenna – 2 GHz to 3 GHz



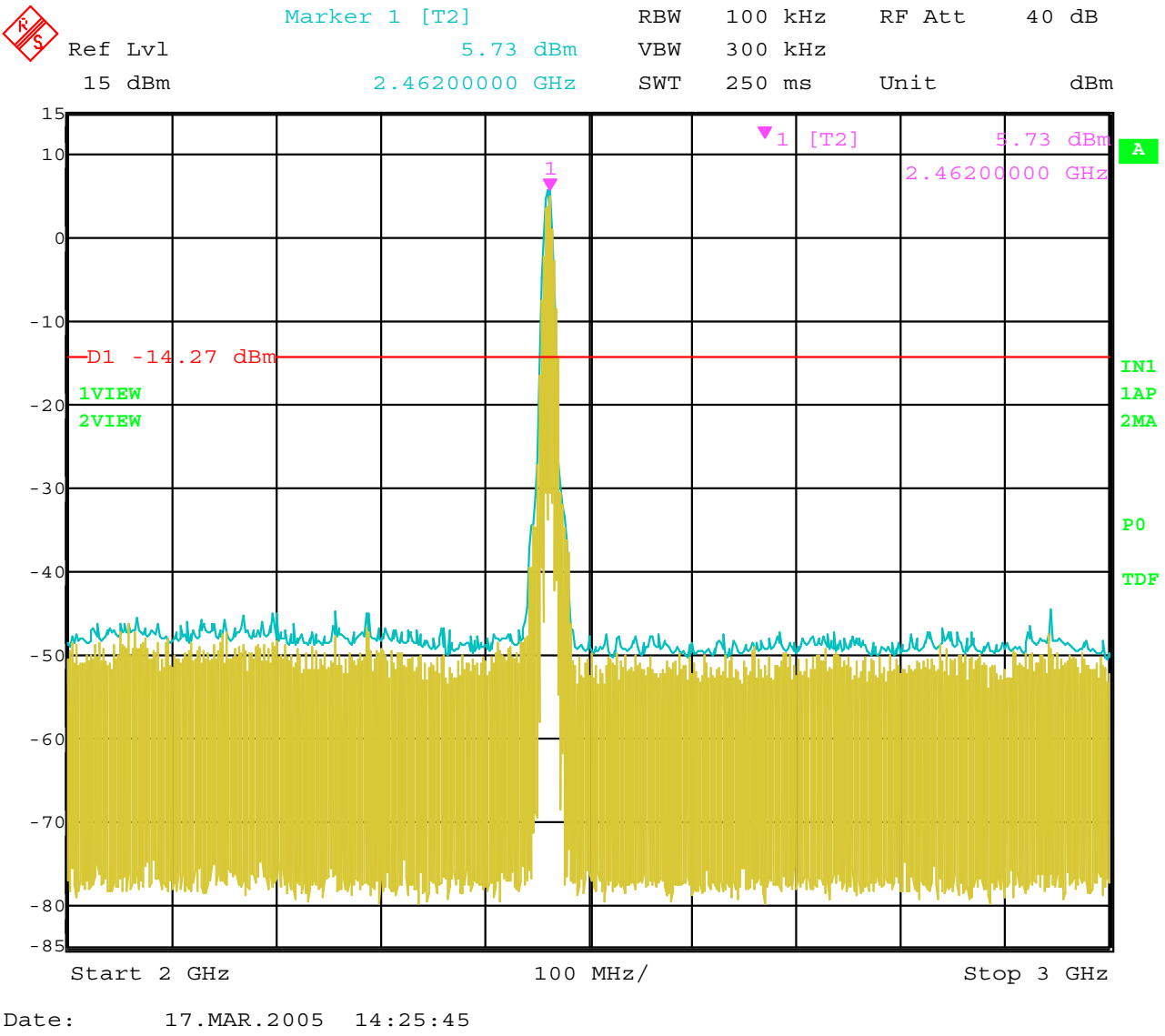
RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – Hitachi Antenna – 3 GHz to 10 GHz



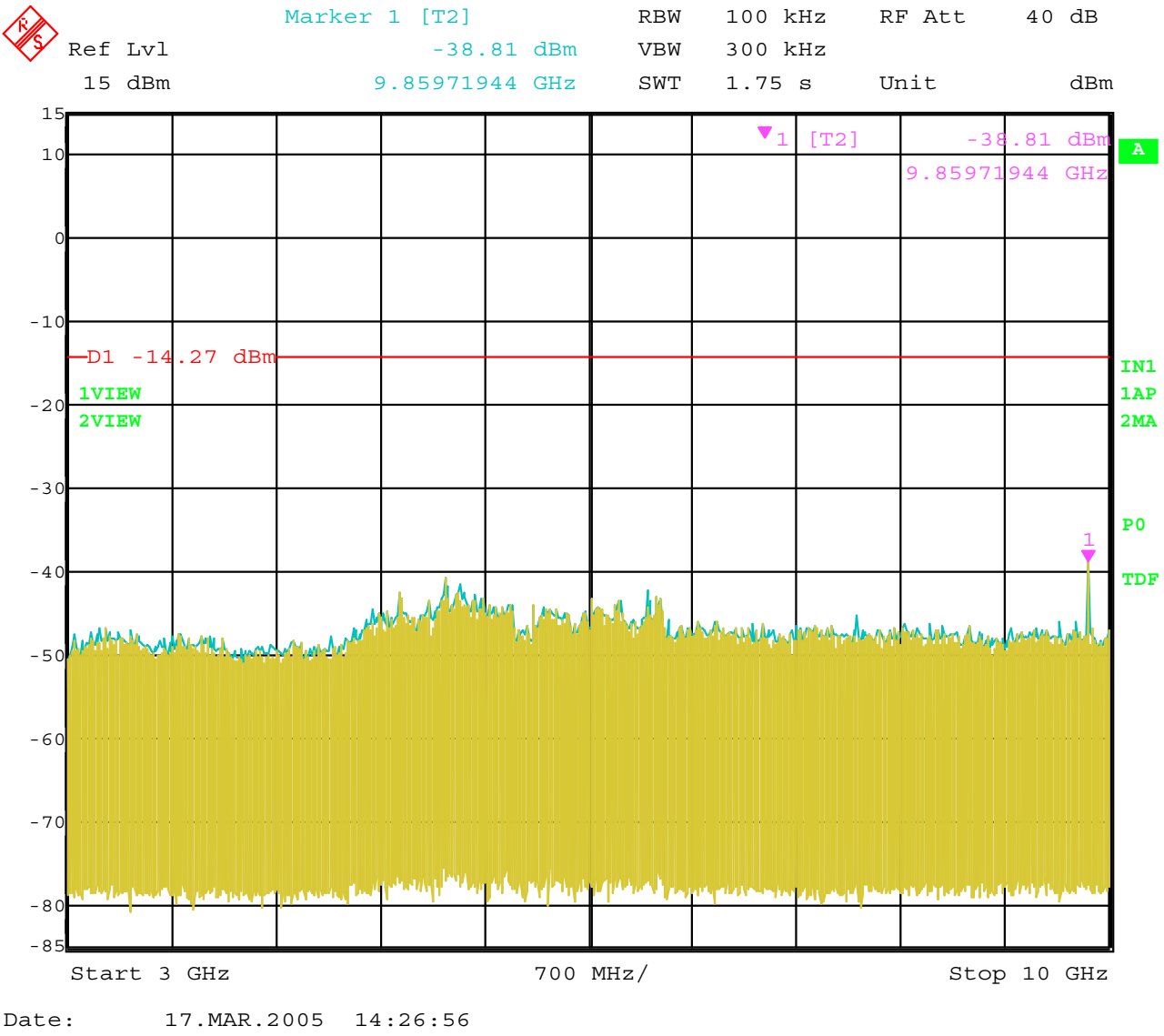
RF Antenna Conducted Test – Channel 6 – 802.11 b Mode – Hitachi Antenna – 10 GHz to 25 GHz



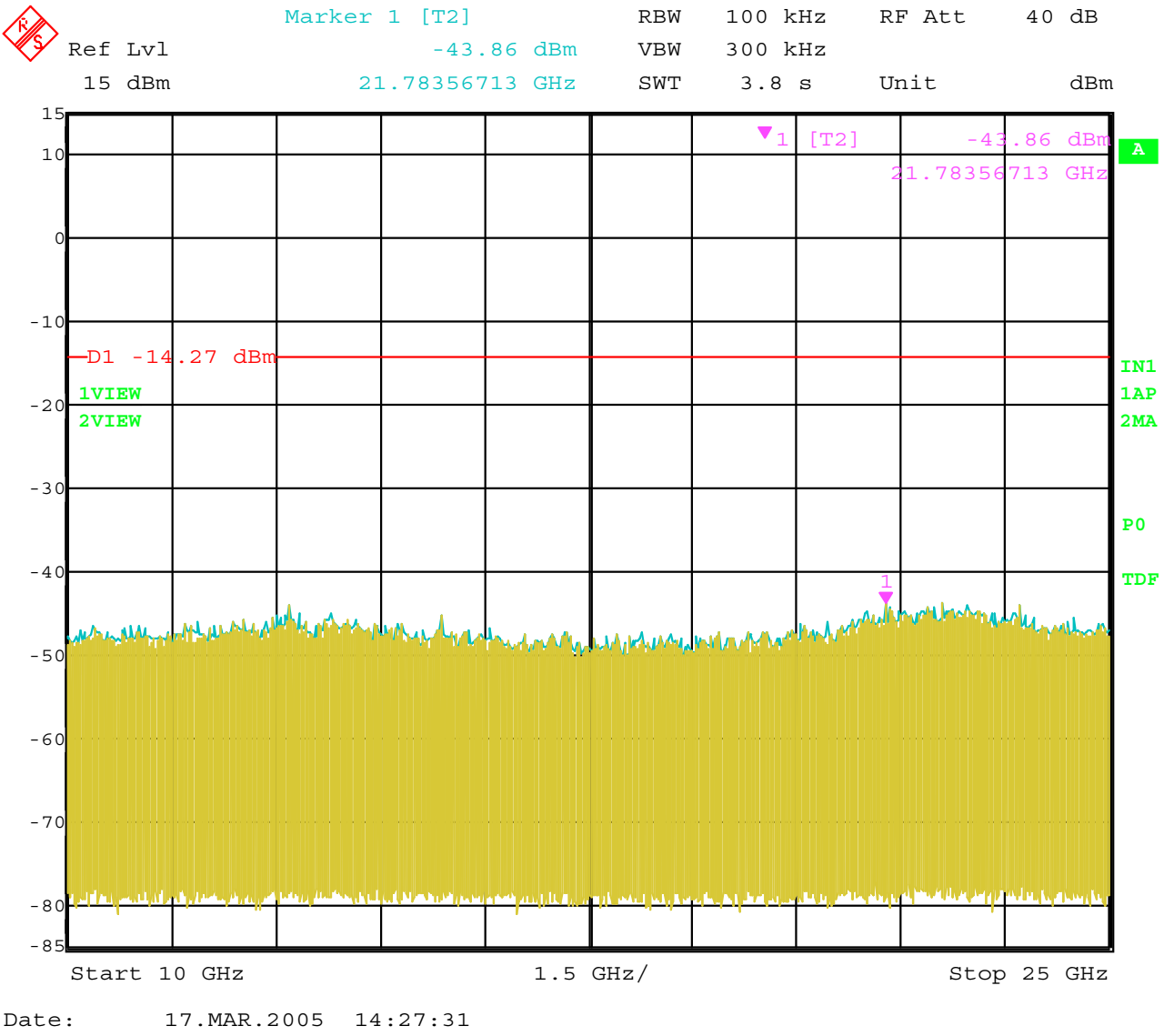
RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – Hitachi Antenna – 2 MHz to 2 GHz



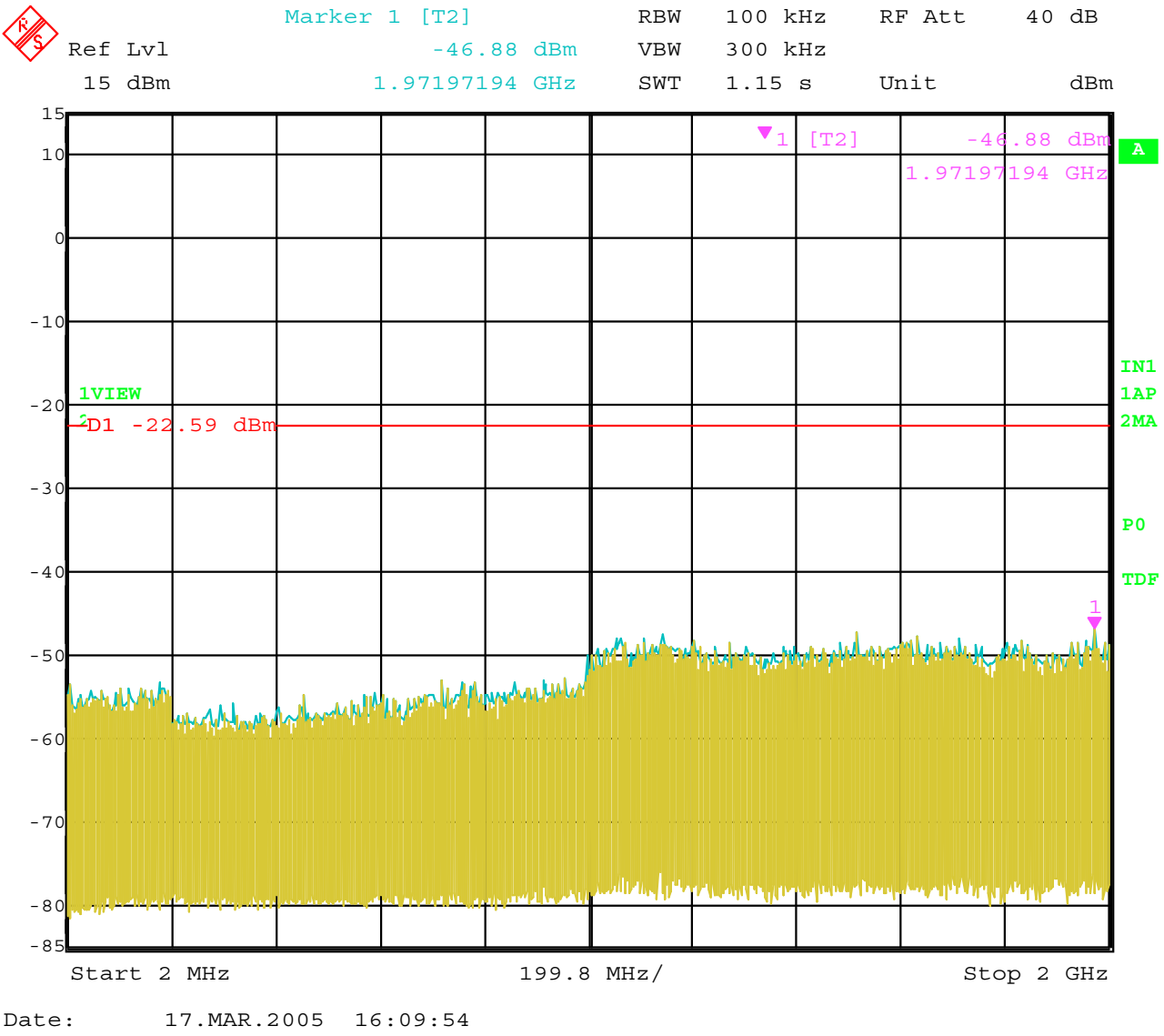
RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – Hitachi Antenna – 2 GHz to 3 GHz



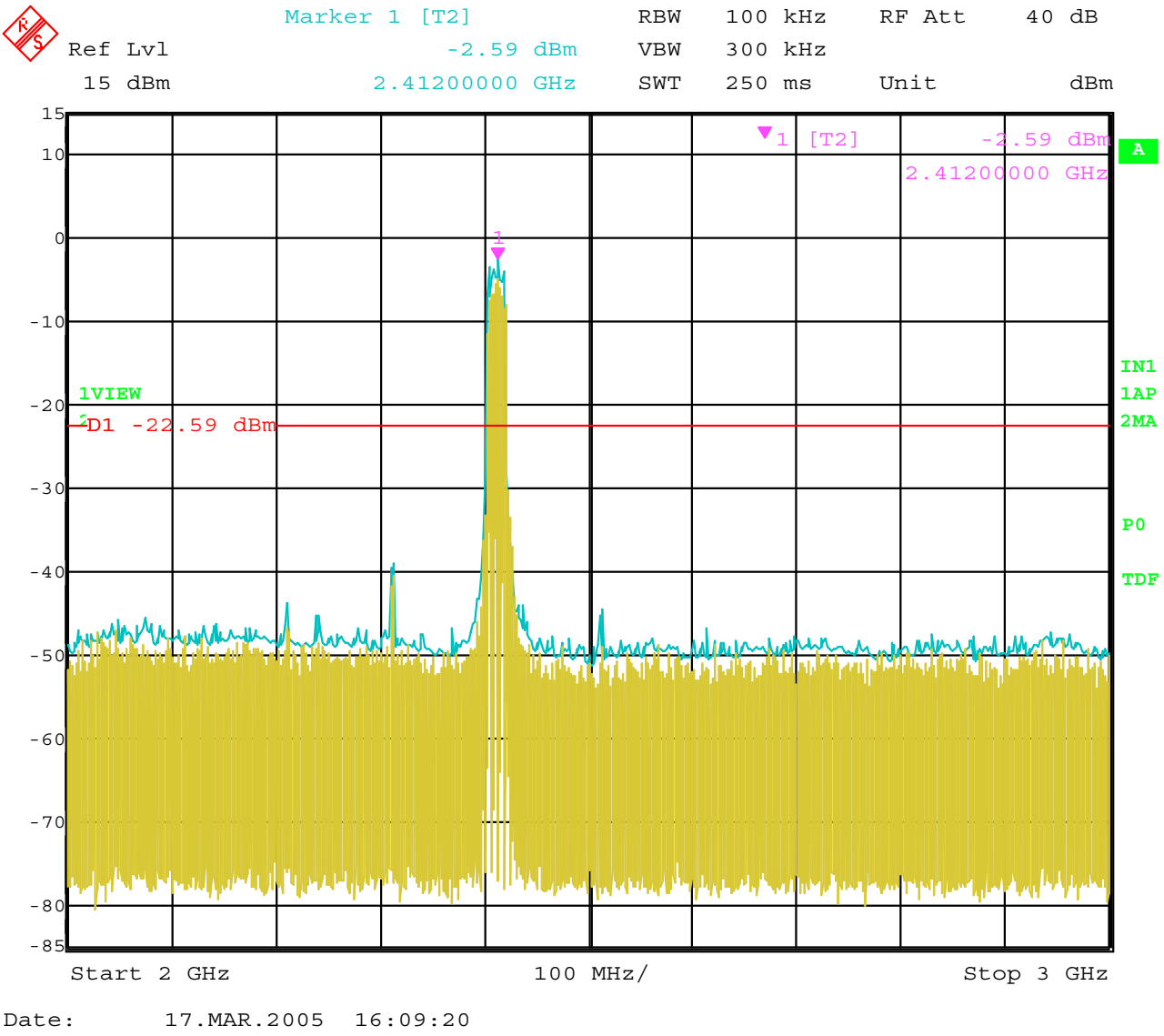
RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – Hitachi Antenna – 3 GHz to 10 GHz



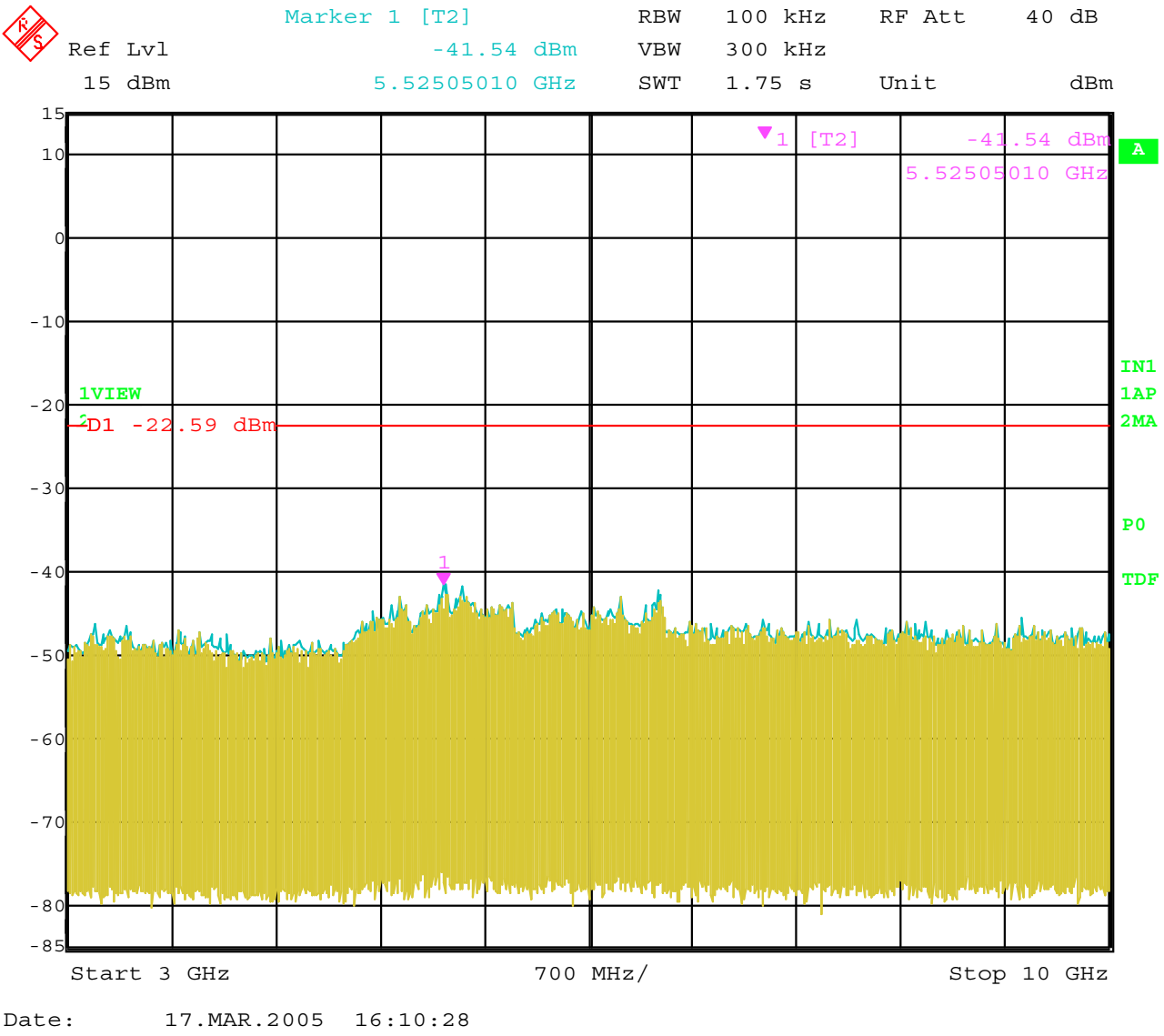
RF Antenna Conducted Test – Channel 11 – 802.11 b Mode – Hitachi Antenna – 10 GHz to 25 GHz



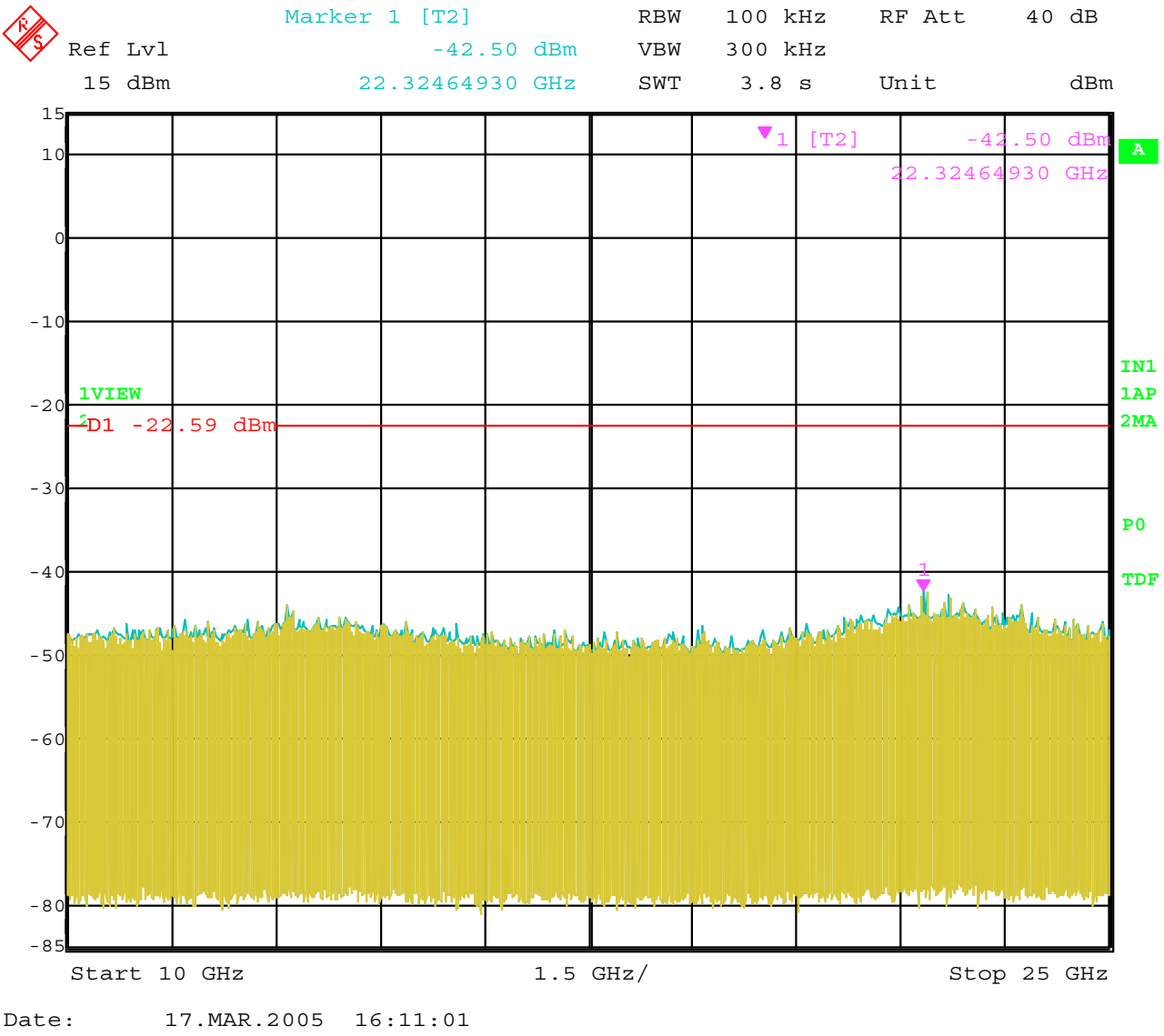
RF Antenna Conducted – Channel 1 – 802.11 g Mode – Hitachi Antenna – 2 MHz to 2 GHz



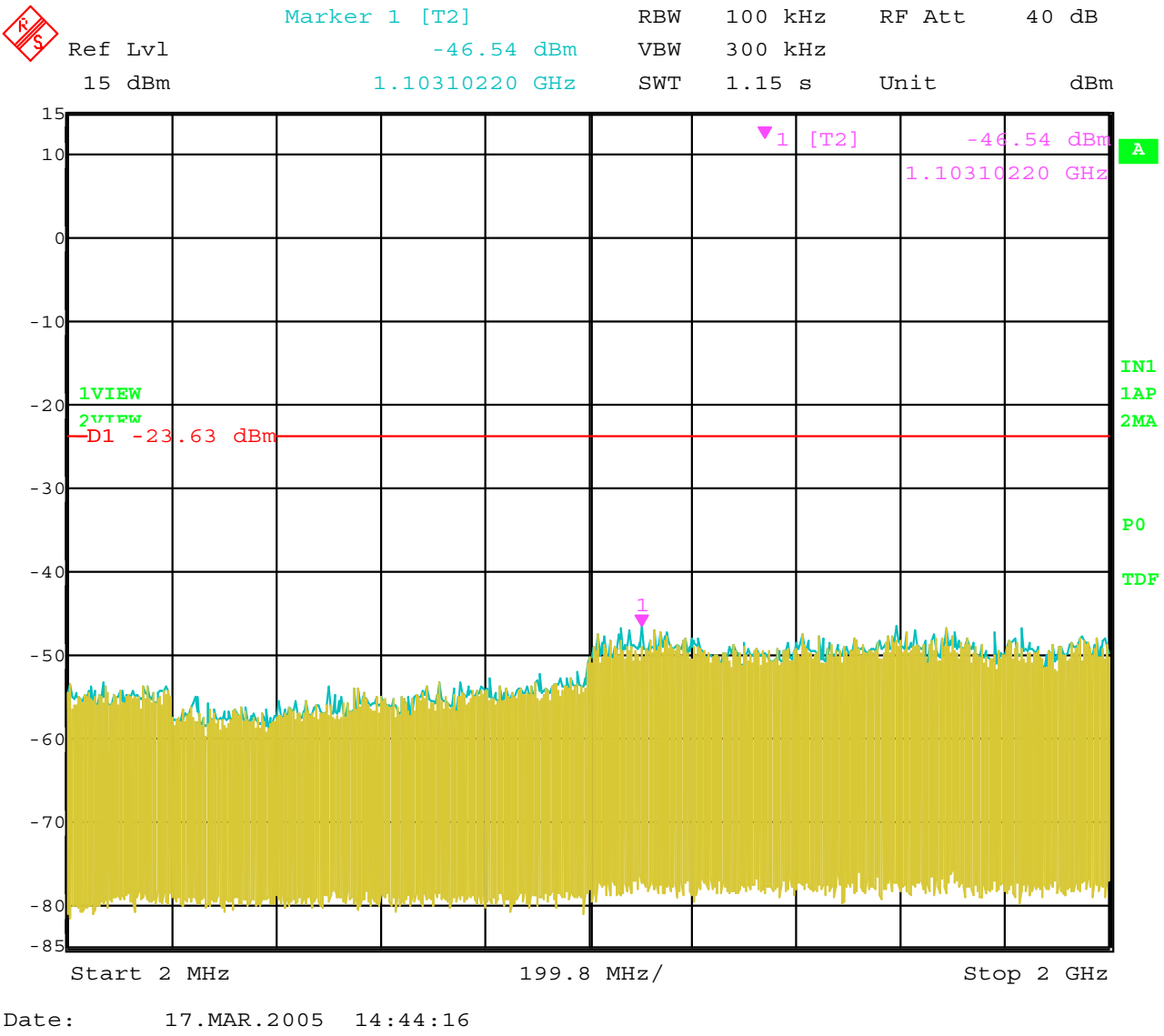
RF Antenna Conducted – Channel 1 – 802.11 g Mode – Hitachi Antenna – 2 GHz to 3 GHz



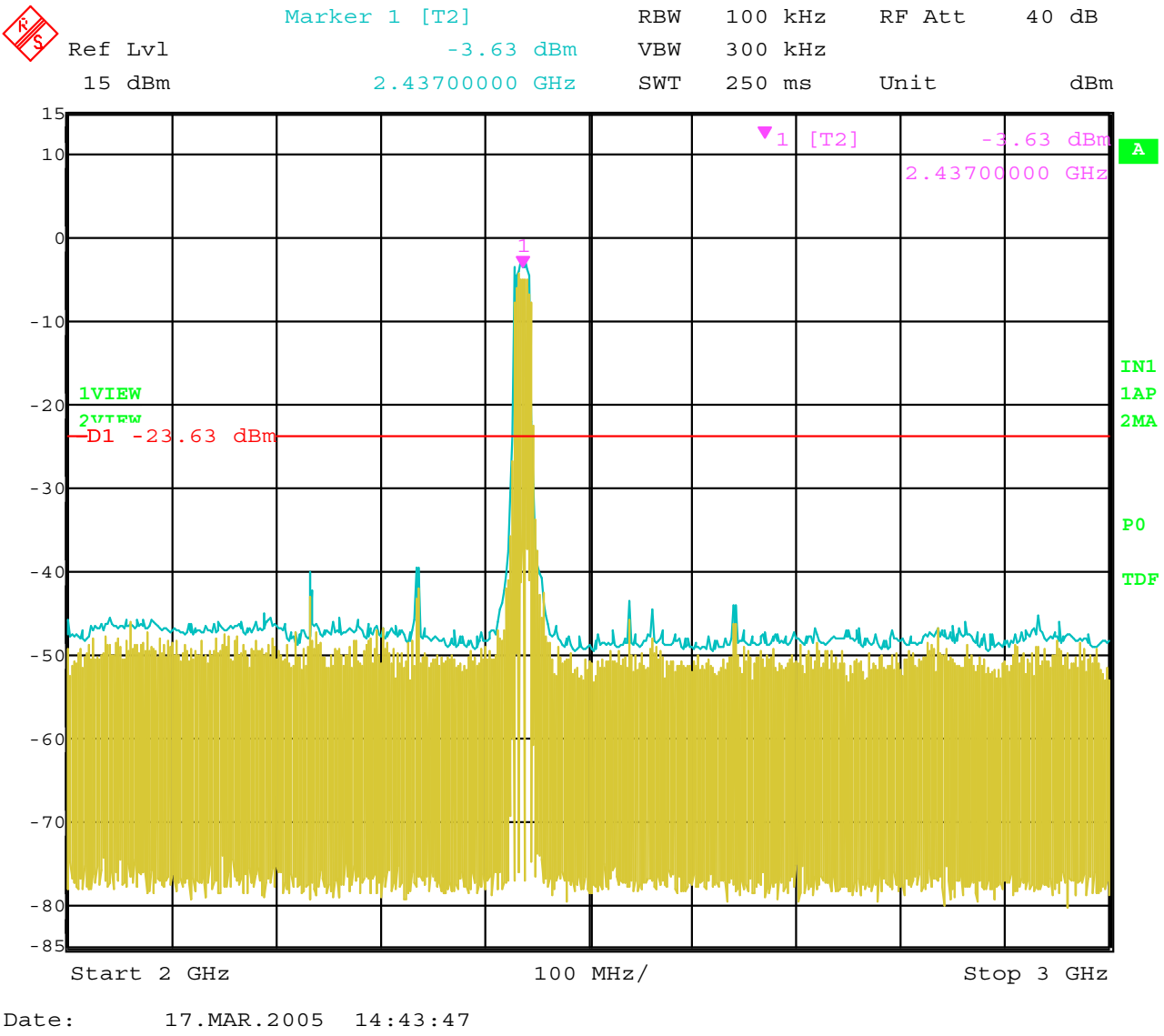
RF Antenna Conducted – Channel 1 – 802.11 g Mode – Hitachi Antenna – 3 GHz to 10 GHz



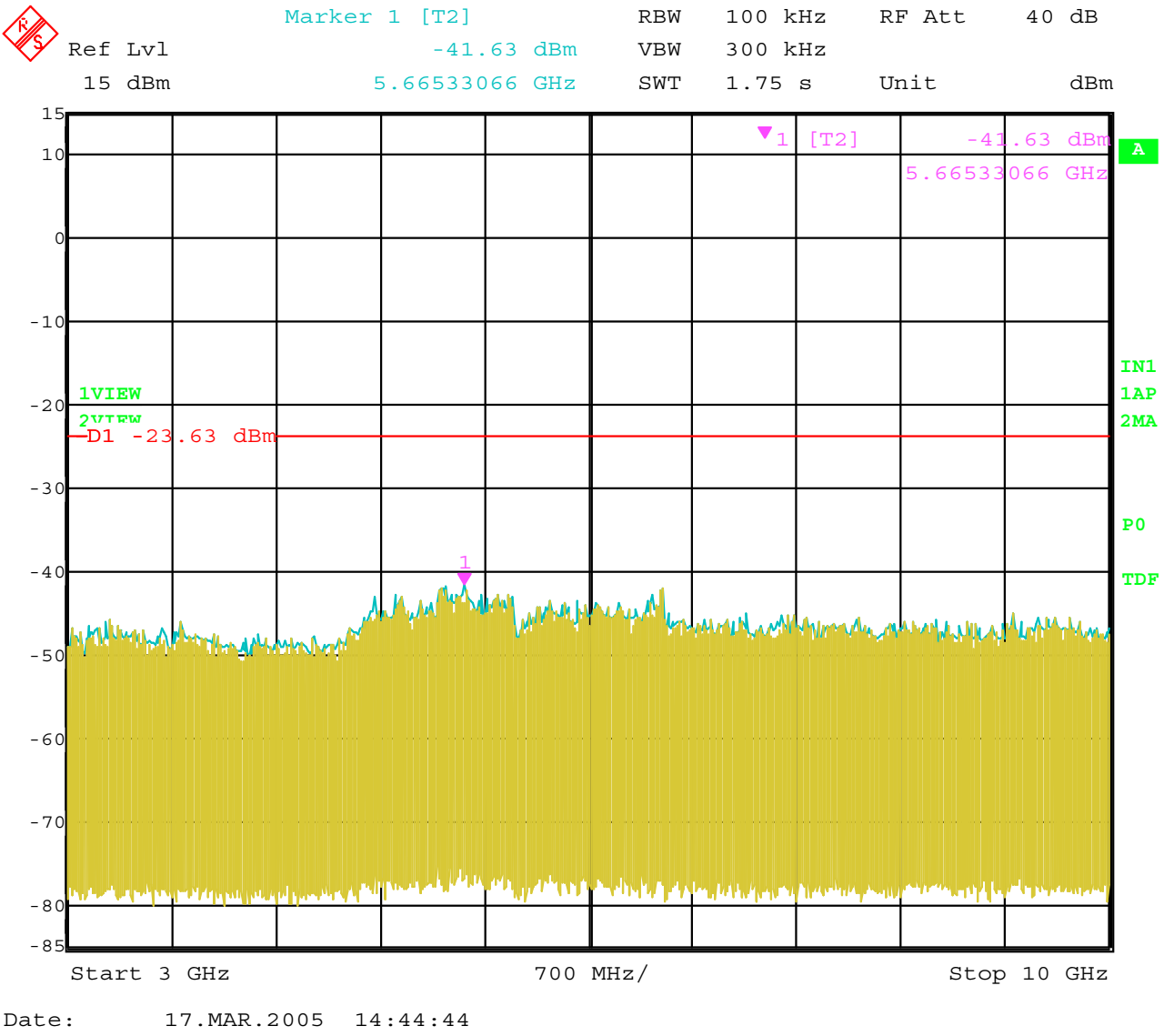
RF Antenna Conducted – Channel 1 – 802.11 g Mode – Hitachi Antenna – 10 GHz to 25 GHz



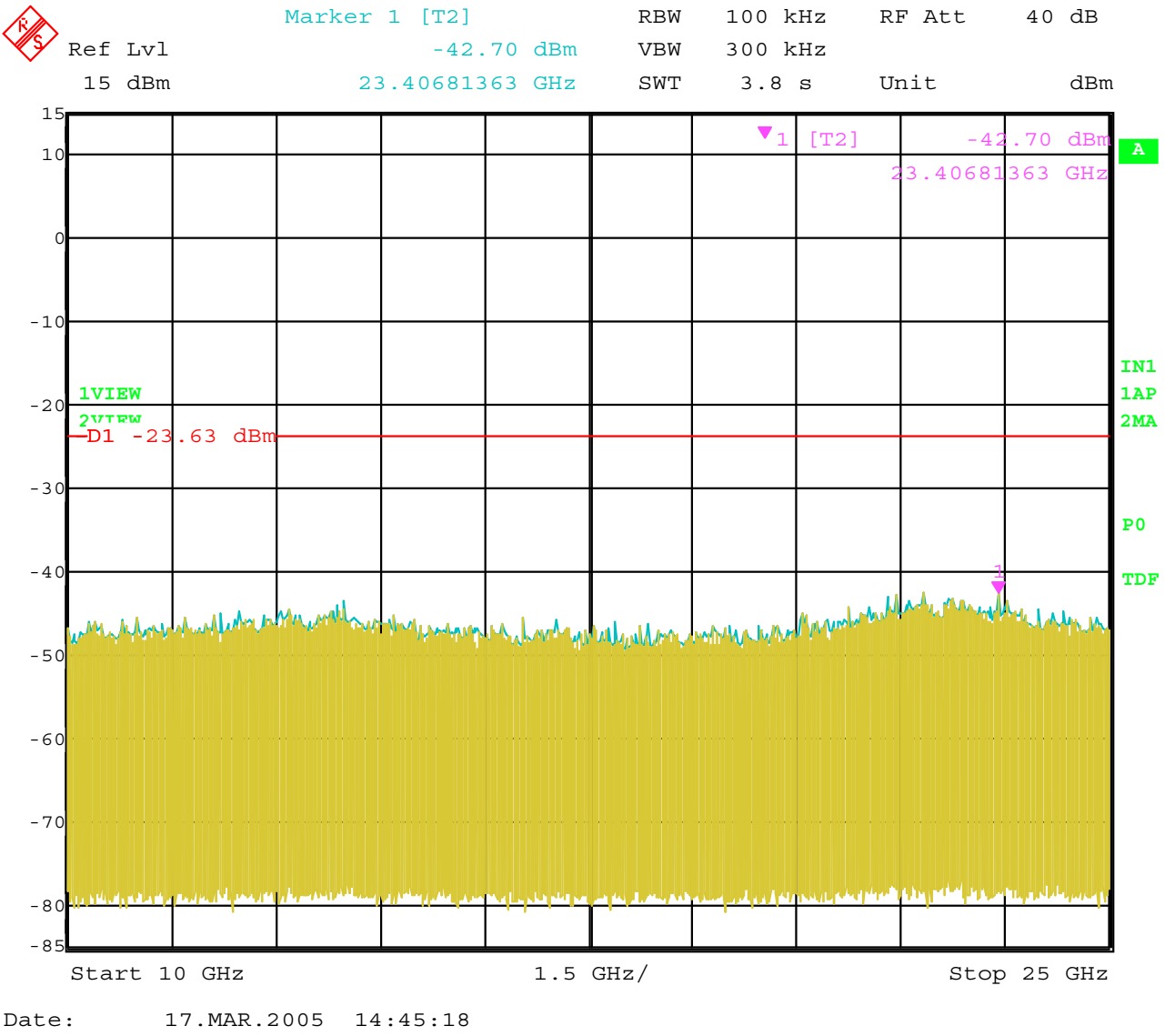
RF Antenna Conducted – Channel 6 – 802.11 g Mode – Hitachi Antenna – 2 MHz to 2 GHz



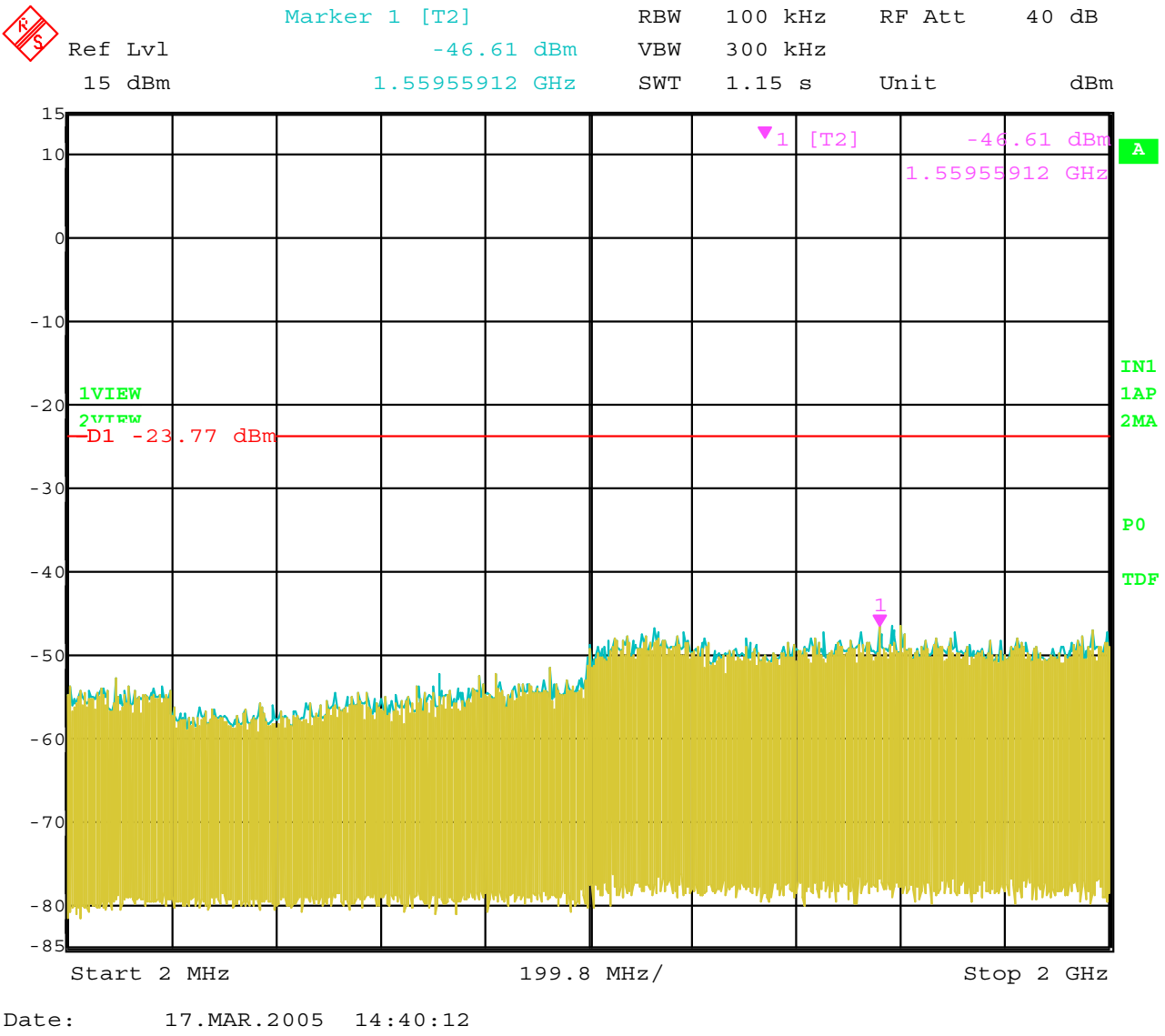
RF Antenna Conducted – Channel 6 – 802.11 g Mode – Hitachi Antenna – 2 GHz to 3 GHz



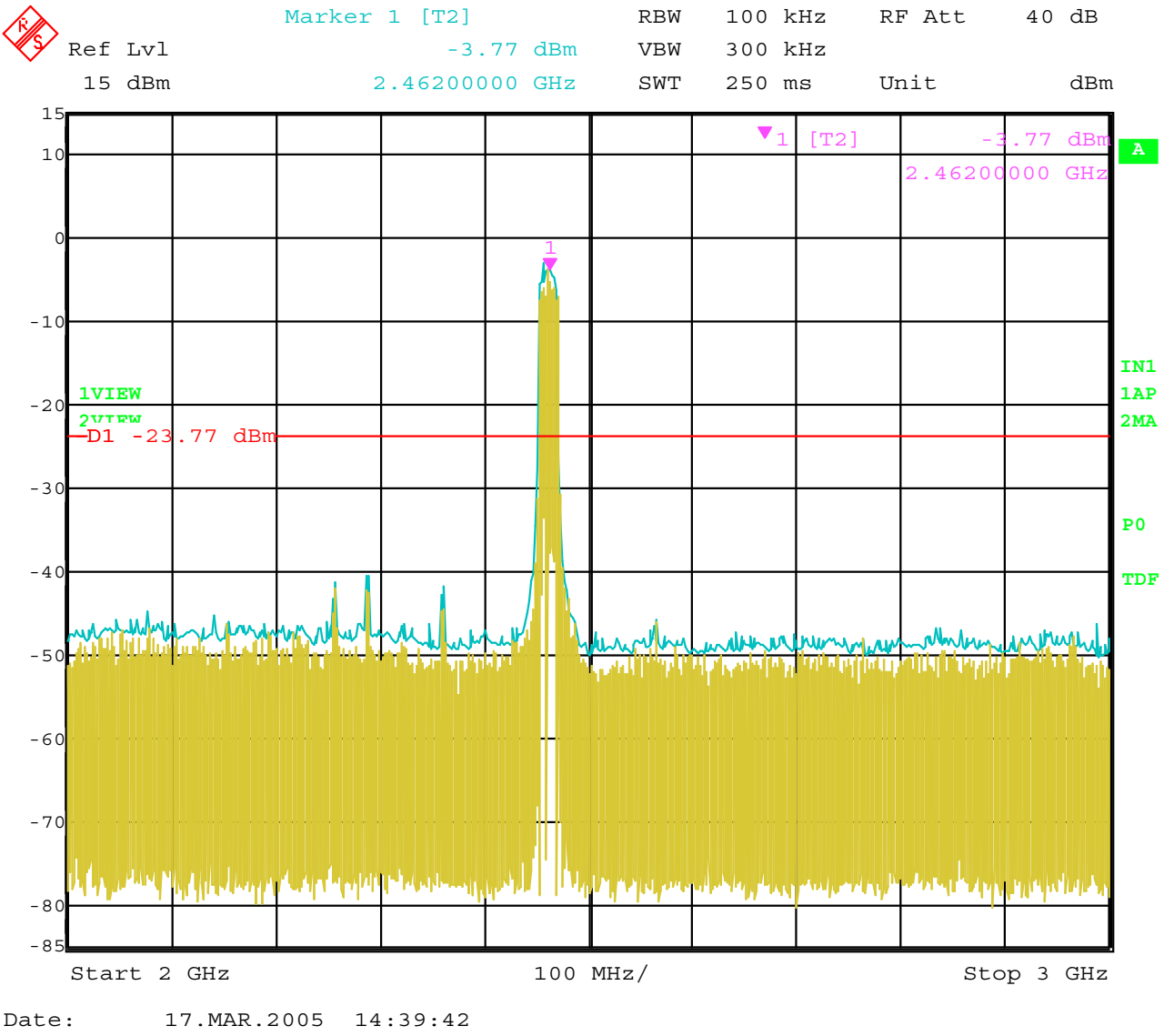
RF Antenna Conducted – Channel 6 – 802.11 g Mode – Hitachi Antenna – 3 GHz to 10 GHz



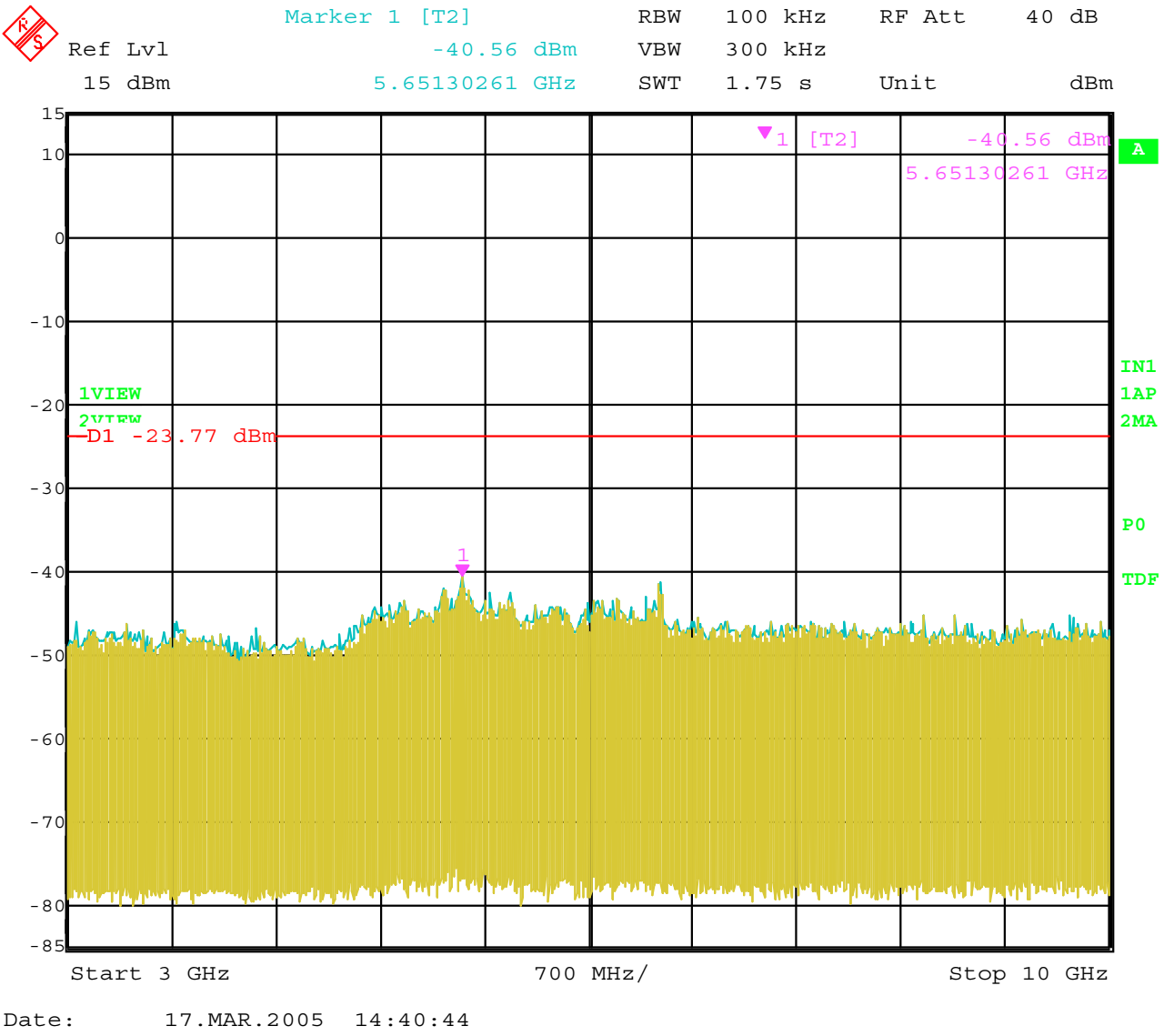
RF Antenna Conducted – Channel 6 – 802.11 g Mode – Hitachi Antenna – 10 GHz to 25 GHz



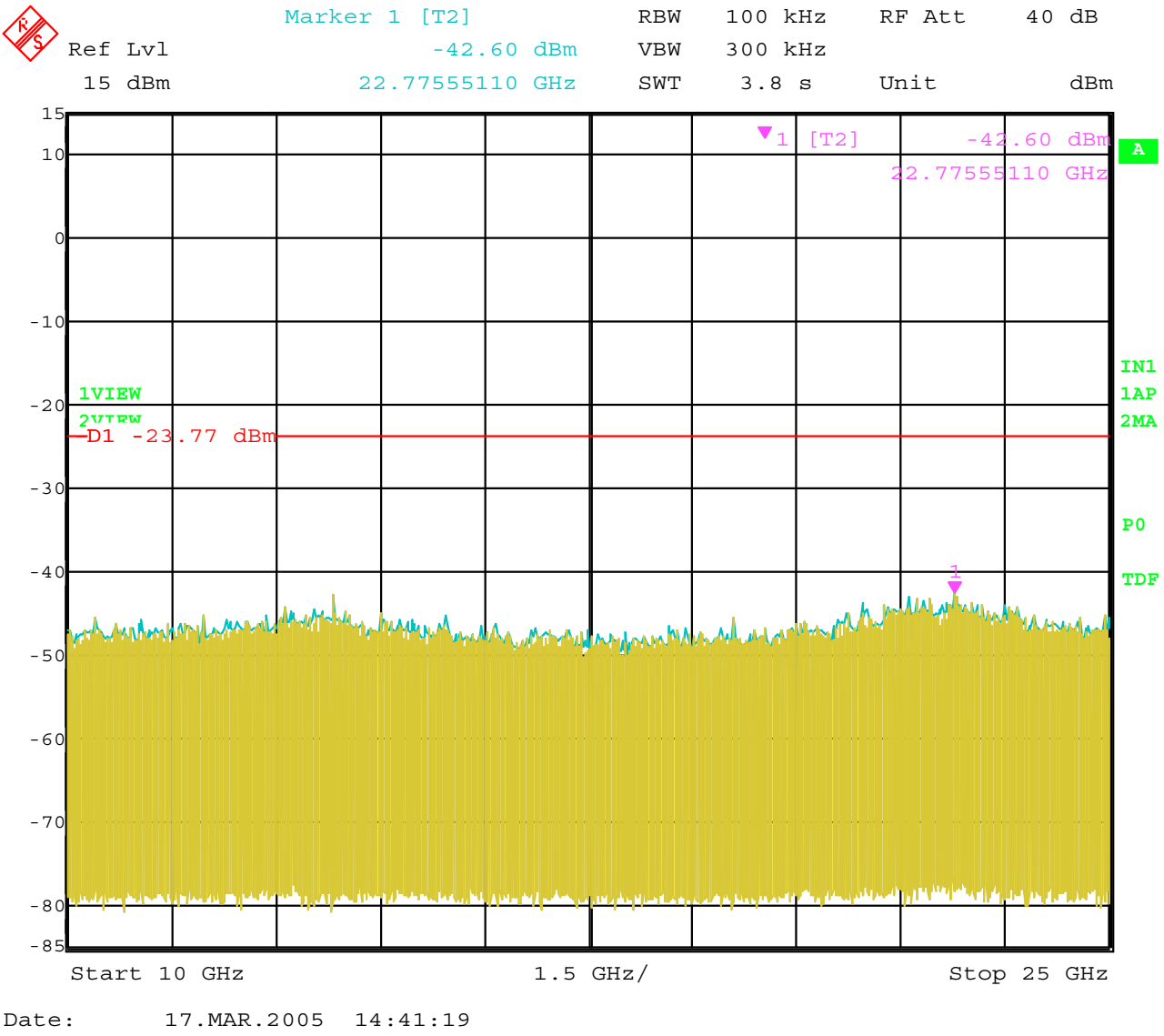
RF Antenna Conducted – Channel 11 – 802.11 g Mode – Hitachi Antenna – 2 MHz to 2 GHz



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



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



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

BAND EDGES

DATA SHEETS

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 Hitachi Antenna

Channel 1 - 802.11 b Mode Gain : 30.0 Peak Power: 17.66 dBm Avg. Power: 15.25 dBm

Channel 6 - 802.11 b Mode Gain : 30.0 Peak Power: 17.55 dBm Avg. Power: 15.14 dBm

Channel 11 - 802.11 b Mode Gain : 30.0 Peak Power: 17.65 dBm Avg. Power: 15.25 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	101.32	V	--	--	Peak	1.15	225	Fundamental of Channel 1
2412	95.09	V	--	--	Avg	1.15	225	@ 3 meters
2390	53.28	V	74	-20.72	Peak	1.15	225	**No** Marker Delta Method
2390	39.12	V	54	-14.88	Avg	1.15	225	Method Used
2311.8	52.31	V	74	-21.69	Peak	1.15	225	**No** Marker Delta Method
2311.8	43.43	V	54	-10.57	Avg	1.15	225	Method Used
2437	102.29	V	--	--	Peak	3.79	225	Fundamental of Channel 6
2437	96.22	V	--	--	Avg	3.79	225	@ 3 meters
2462	99.99	V	--	--	Peak	3.2	225	Fundamental of Channel 11
2462	93.44	V	--	--	Avg	3.2	225	@ 3 meters
2462.9	50.54	V	74	-23.46	Peak	3.2	225	**No** Marker Delta Method
2462.9	39.19	V	54	-14.81	Avg	3.2	225	Method Used
2487.3	50.91	V	74	-23.09	Peak	3.2	225	**No** Marker Delta Method
2485.5	38.69	V	54	-15.31	Avg	3.2	225	Method Used

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 Hitachi Antenna

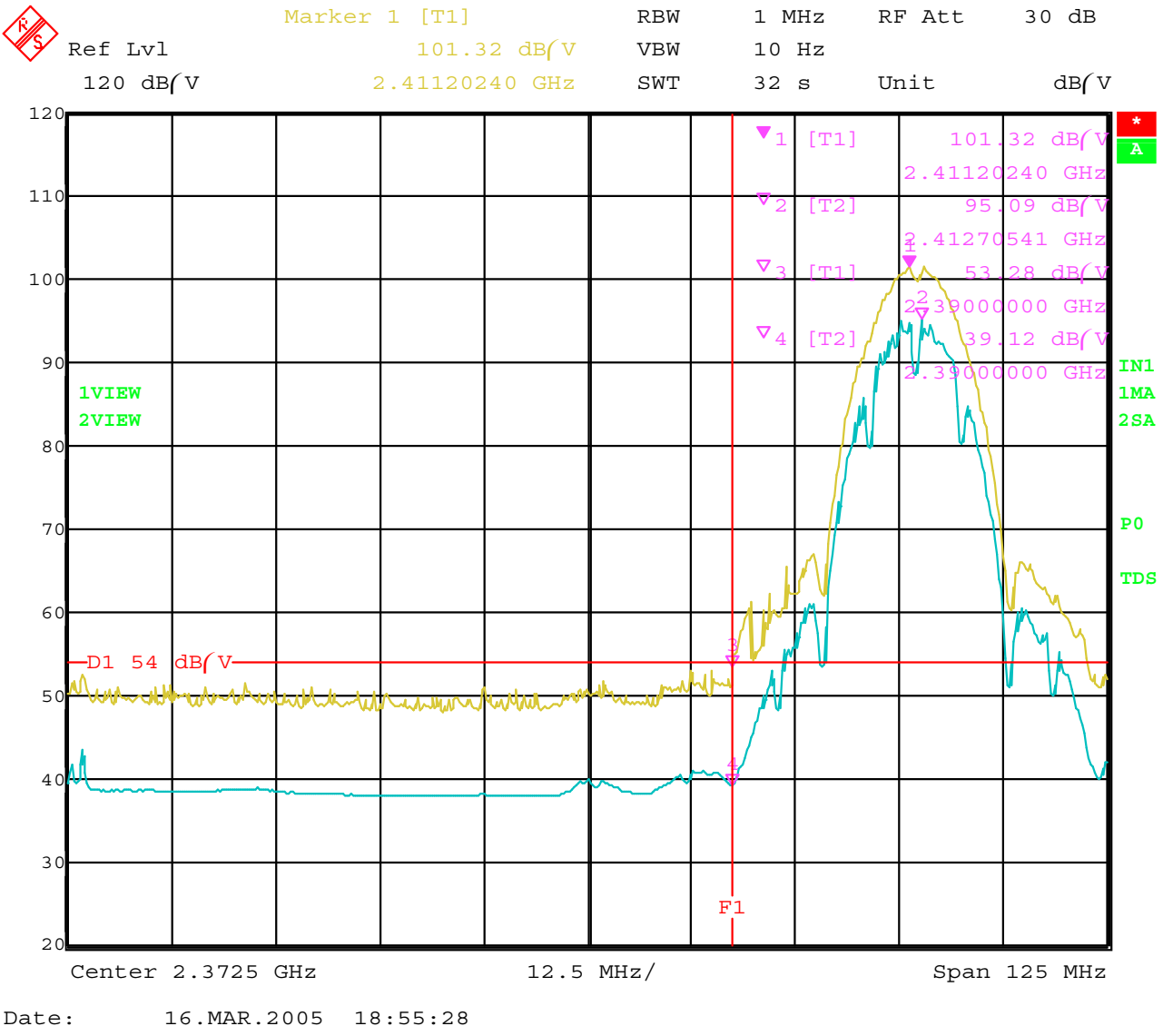
Channel 1 - 802.11 b Mode Gain : 30.0 Peak Power: 17.66 dBm Avg. Power: 15.25 dBm

Channel 6 - 802.11 b Mode Gain : 30.0 Peak Power: 17.55 dBm Avg. Power: 15.14 dBm

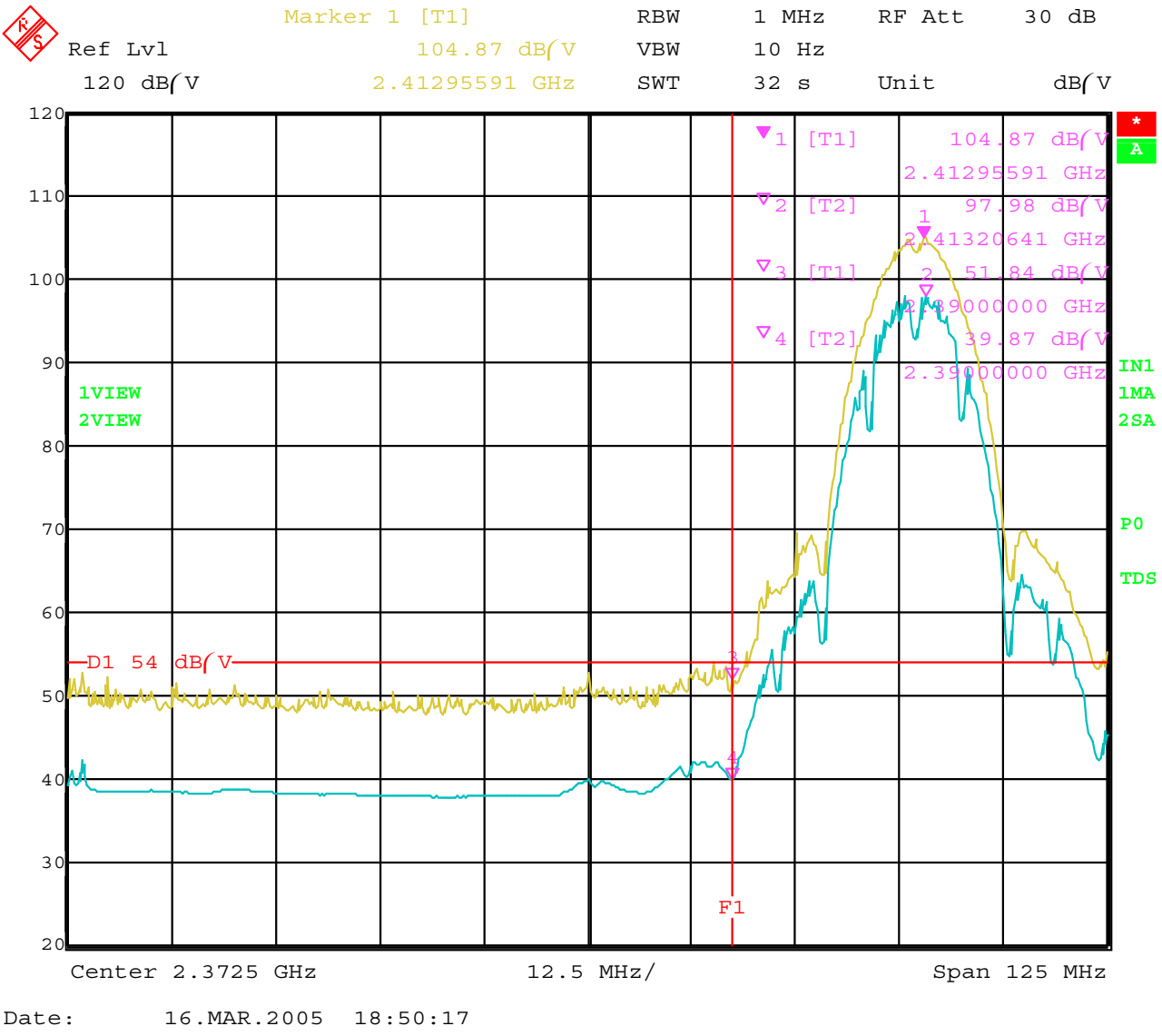
Channel 11 - 802.11 b Mode Gain : 30.0 Peak Power: 17.65 dBm Avg. Power: 15.25 dBm

Transmit Mode

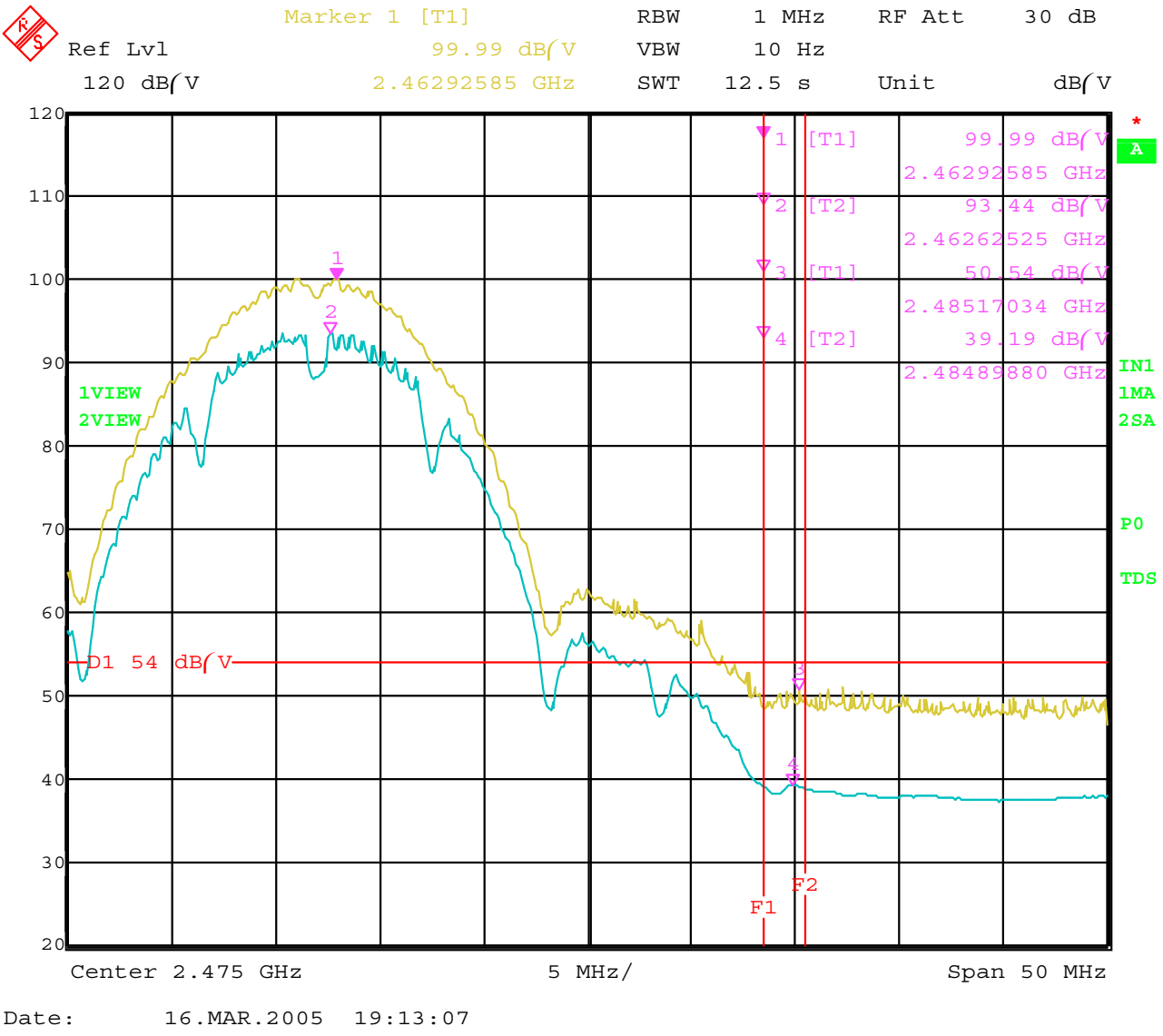
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	104.87	H	--	--	Peak	1	180	Fundamental of Channel 1
2412	97.98	H	--	--	Avg	1	180	@ 3 meters
2390	51.84	H	74	-22.16	Peak	1	180	**No** Marker Delta Method
2390	39.87	H	54	-14.13	Avg	1	180	Method Used
2387.7	53.85	H	74	-20.15	Peak	1	180	**No** Marker Delta Method
2385.2	41.98	H	54	-12.02	Avg	1	180	Method Used
2437	103.89	H	--	--	Peak	2.25	315	Fundamental of Channel 6
2437	97.08	H	--	--	Avg	2.25	315	@ 3 meters
2462	104.27	H	--	--	Peak	2.27	315	Fundamental of Channel 11
2462	97.56	H	--	--	Avg	2.27	315	@ 3 meters
2485.3	54.24	H	74	-19.76	Peak	2.27	315	**No** Marker Delta Method
2484.8	43.47	H	54	-10.53	Peak	2.27	315	Method Used
2486.6	53.69	H	74	-20.31	Peak	2.27	315	**No** Marker Delta Method
2485.5	42.26	H	54	-11.74	Peak	2.27	315	Method Used



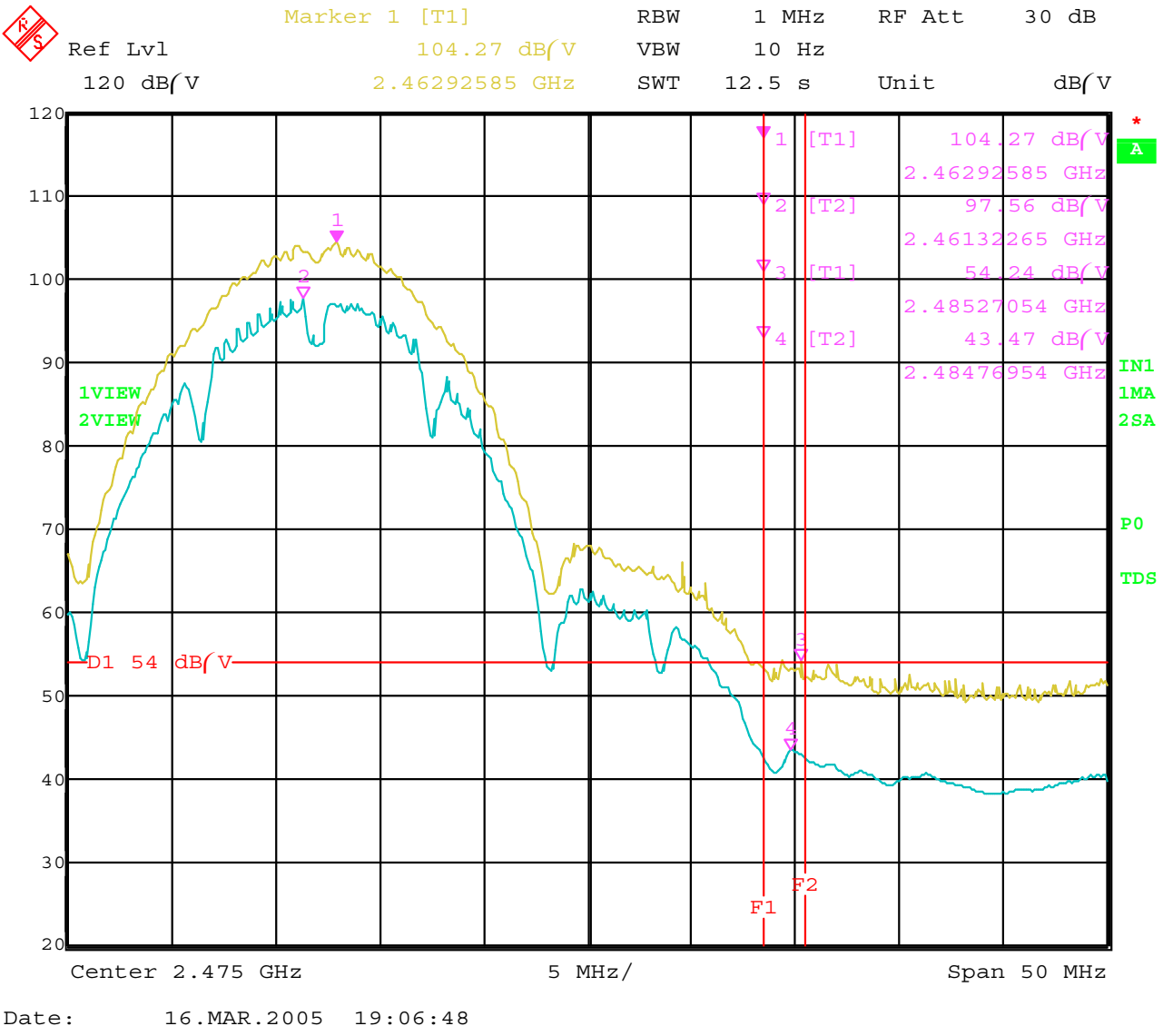
Band Edge – Channel 1 – Vertical Polarization – 802.11 b Mode – Hitachi Antenna



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



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



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

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 Hitachi Antenna

Channel 1 - 802.11 g Mode Gain : 24.0 Peak Power: 16.49 dBm Avg. Power: 9.84 dBm

Channel 6 - 802.11 g Mode Gain : 24.0 Peak Power: 16.62 dBm Avg. Power: 9.93 dBm

Channel 11 - 802.11 g Mode Gain : 23.5 Peak Power: 16.32 dBm Avg. Power: 9.62 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	98.87	V	--	--	Peak	2.31	90	Fundamental of Channel 1
2412	85.53	V	--	--	Avg	2.31	90	@ 3 meters
2390	55.82	V	74	-18.18	Peak	2.31	90	**No** Marker Delta Method
2390	41.7	V	54	-12.3	Avg	2.31	90	Method Used
2312.3	55.57	V	74	-18.43	Peak	2.31	90	**No** Marker Delta Method
2311.8	48.61	V	54	-5.39	Avg	2.31	90	Method Used
2437	97.73	V	--	--	Peak	3.59	225	Fundamental of Channel 6
2437	84.25	V	--	--	Avg	3.59	225	@ 3 meters
2462	97.62	V	--	--	Peak	3.78	225	Fundamental of Channel 11
2462	84.09	V	--	--	Avg	3.78	225	@ 3 meters
2483.5	56.72	V	74	-17.28	Peak	3.78	225	**No** Marker Delta Method
2483.5	42.18	V	54	-11.82	Avg	3.78	225	Method Used
2485.5	54.37	V	74	-19.63	Peak	3.78	225	**No** Marker Delta Method
2486.7	42.39	V	54	-11.61	Avg	3.78	225	Method Used

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 Hitachi Antenna

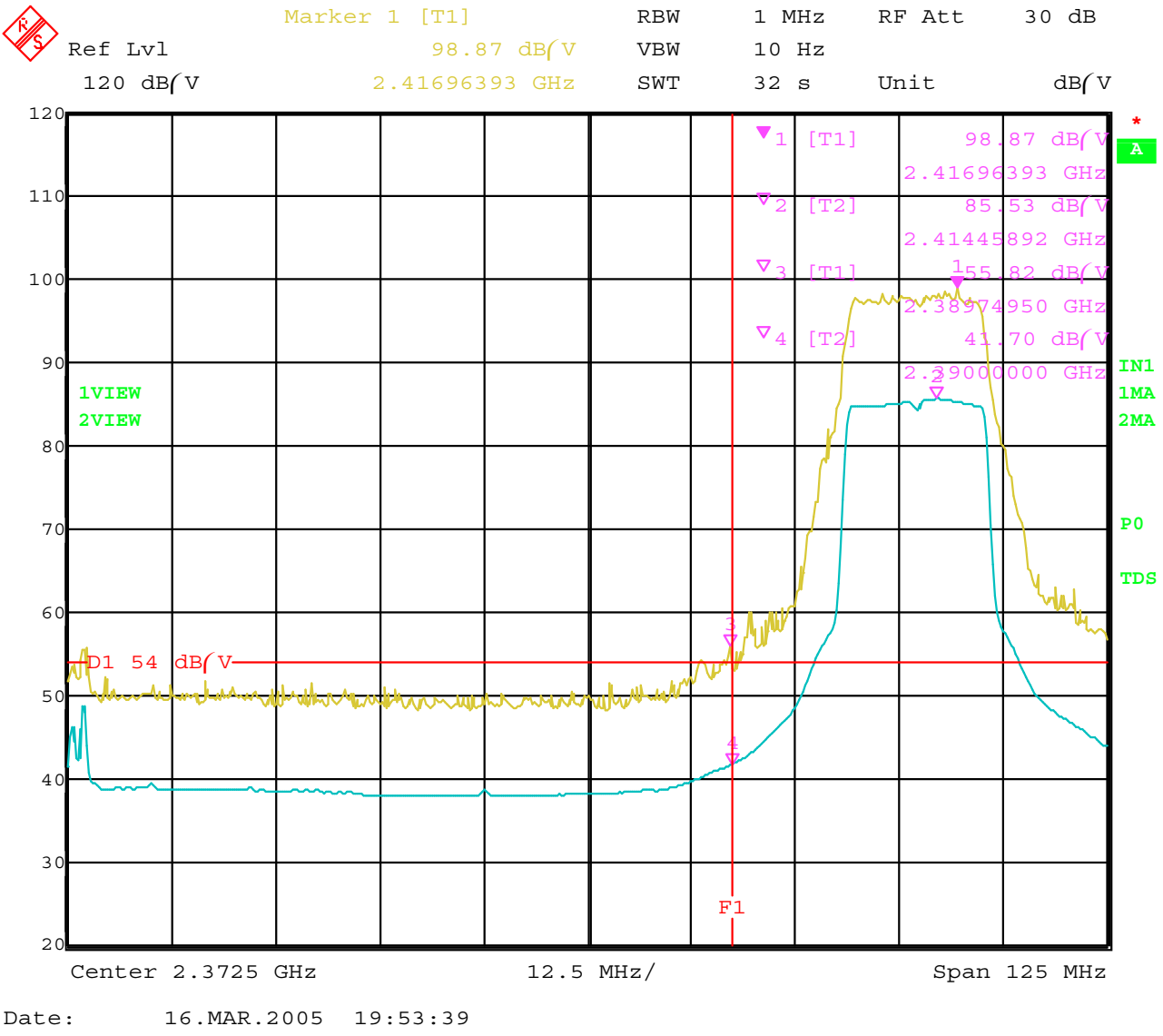
Channel 1 - 802.11 g Mode Gain : 24.0 Peak Power: 16.49 dBm Avg. Power: 9.84 dBm

Channel 6 - 802.11 g Mode Gain : 24.0 Peak Power: 16.62 dBm Avg. Power: 9.93 dBm

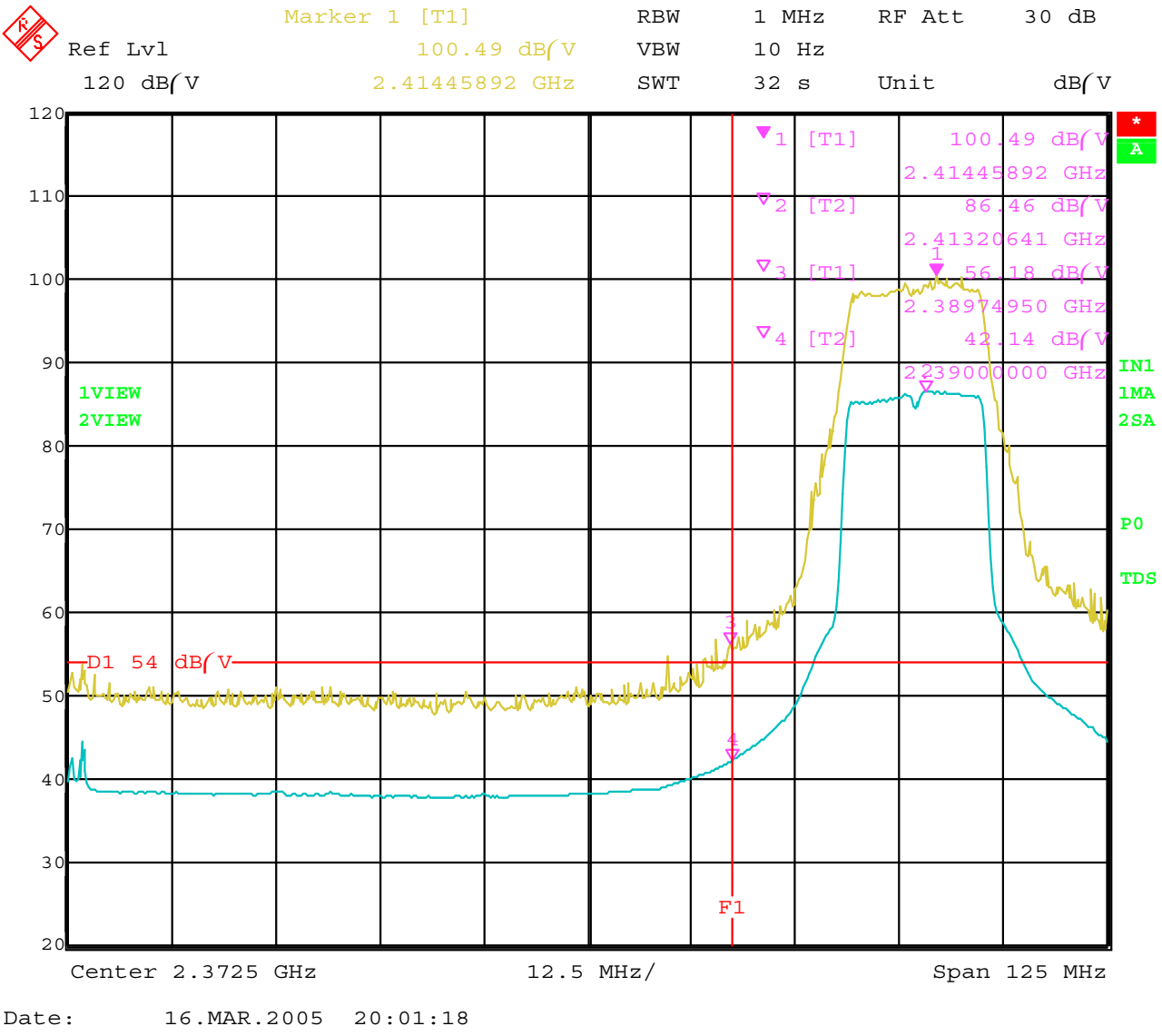
Channel 11 - 802.11 g Mode Gain : 23.5 Peak Power: 16.32 dBm Avg. Power: 9.62 dBm

Transmit Mode

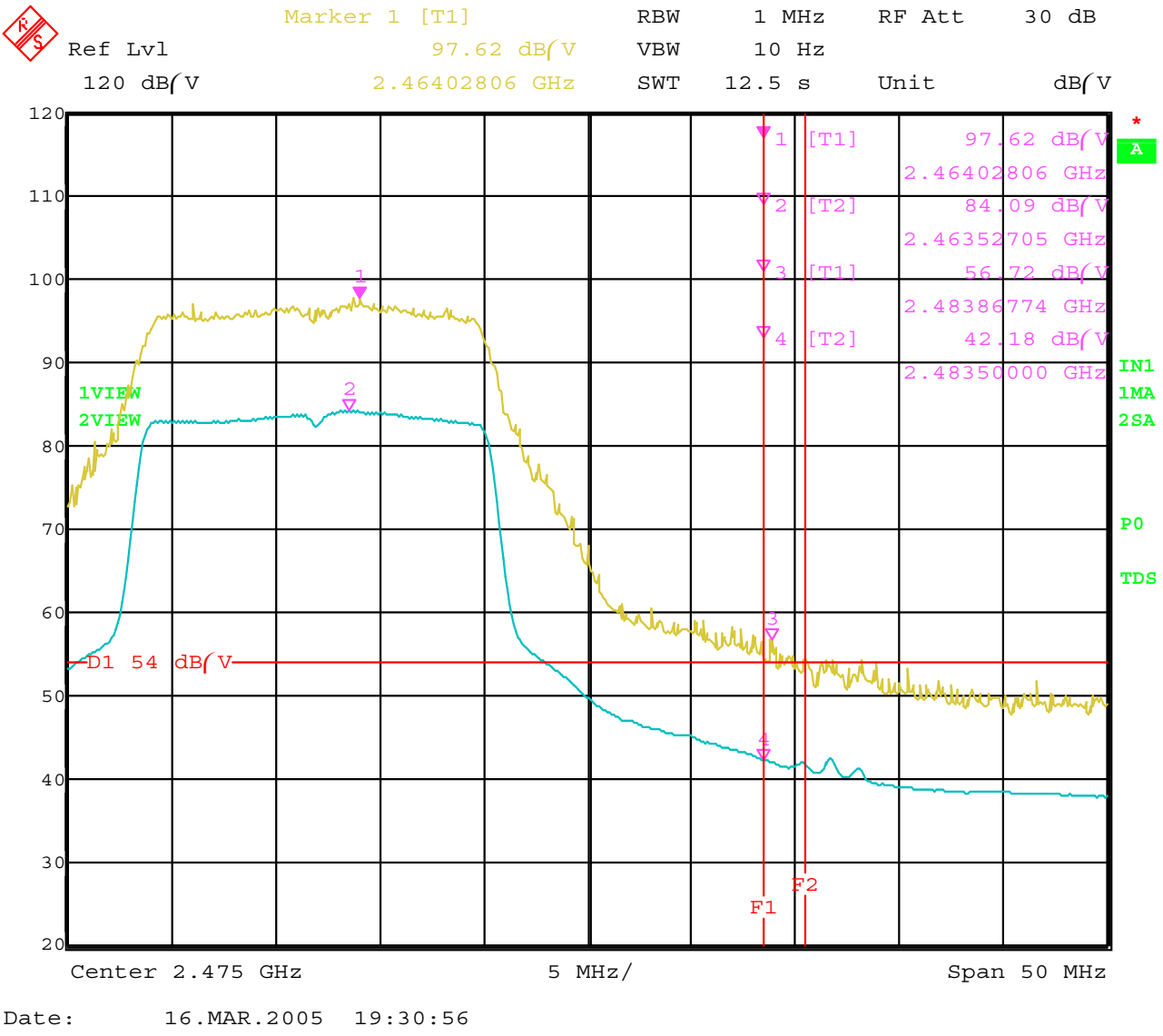
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	100.49	H	--	--	Peak	3.44	180	Fundamental of Channel 1
2412	86.46	H	--	--	Avg	3.44	180	@ 3 meters
2390	56.18	H	74	-17.82	Peak	3.44	180	**No** Marker Delta Method
2390	42.14	H	54	-11.86	Avg	3.44	180	Method Used
2387.9	56.74	H	74	-17.26	Peak	3.44	180	**No** Marker Delta Method
2311.8	44.33	H	54	-9.67	Avg	3.44	180	Method Used
2437	100.01	H	--	--	Peak	2.56	225	Fundamental of Channel 6
2437	86.83	H	--	--	Avg	2.56	225	@ 3 meters
2462	97.12	H	--	--	Peak	1.89	225	Fundamental of Channel 11
2462	83.99	H	--	--	Avg	1.89	225	@ 3 meters
2483.5	53.37	H	74	-20.63	Peak	1.89	225	**No** Marker Delta Method
2483.5	40.25	H	54	-13.75	Peak	1.89	225	Method Used
2486.5	53.43	H	74	-20.57	Peak	1.89	225	**No** Marker Delta Method
2486.7	40.23	H	54	-13.77	Peak	1.89	225	Method Used



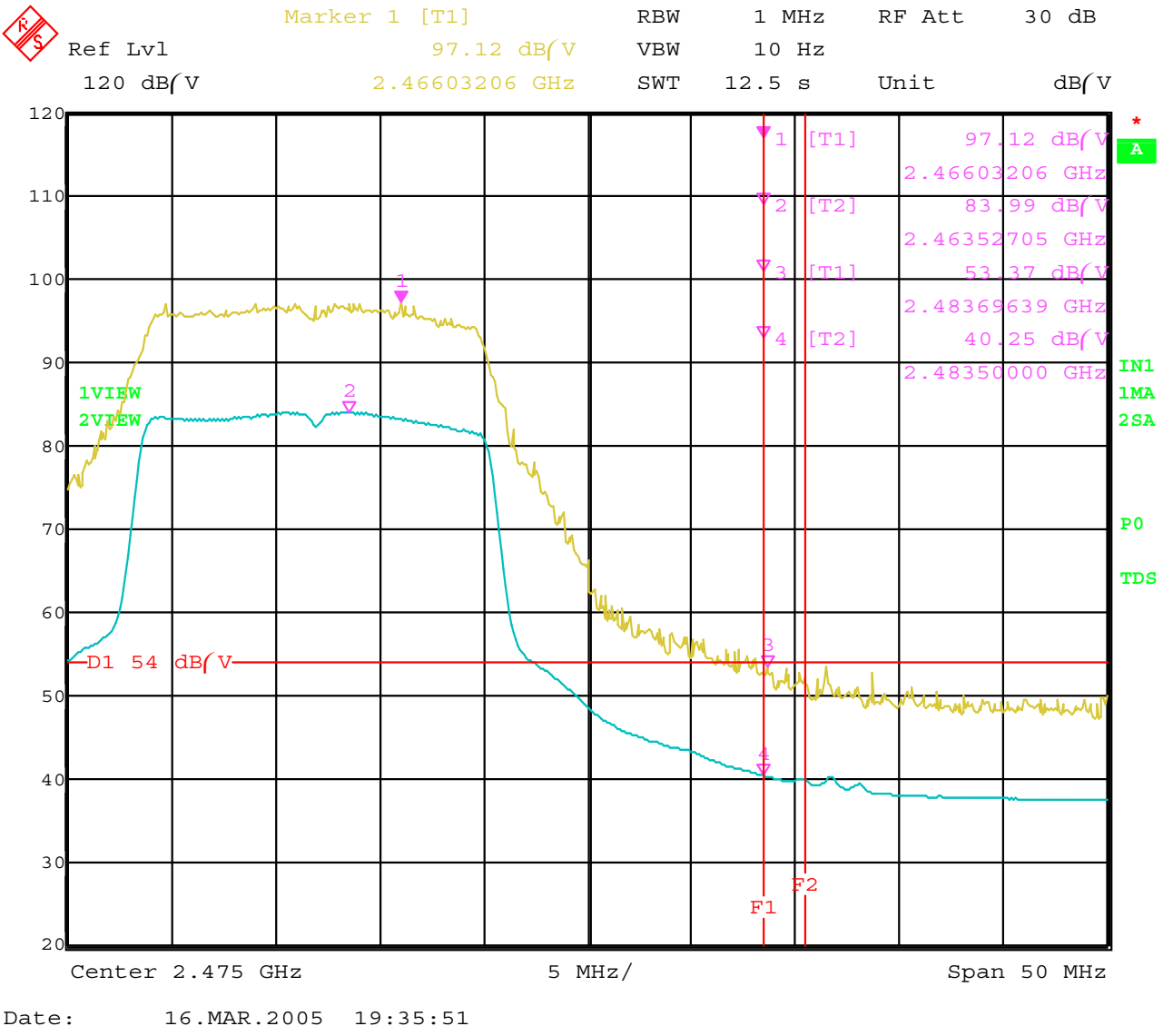
Band Edge – Channel 1 – Vertical Polarization – 802.11 g Mode – Hitachi Antenna



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



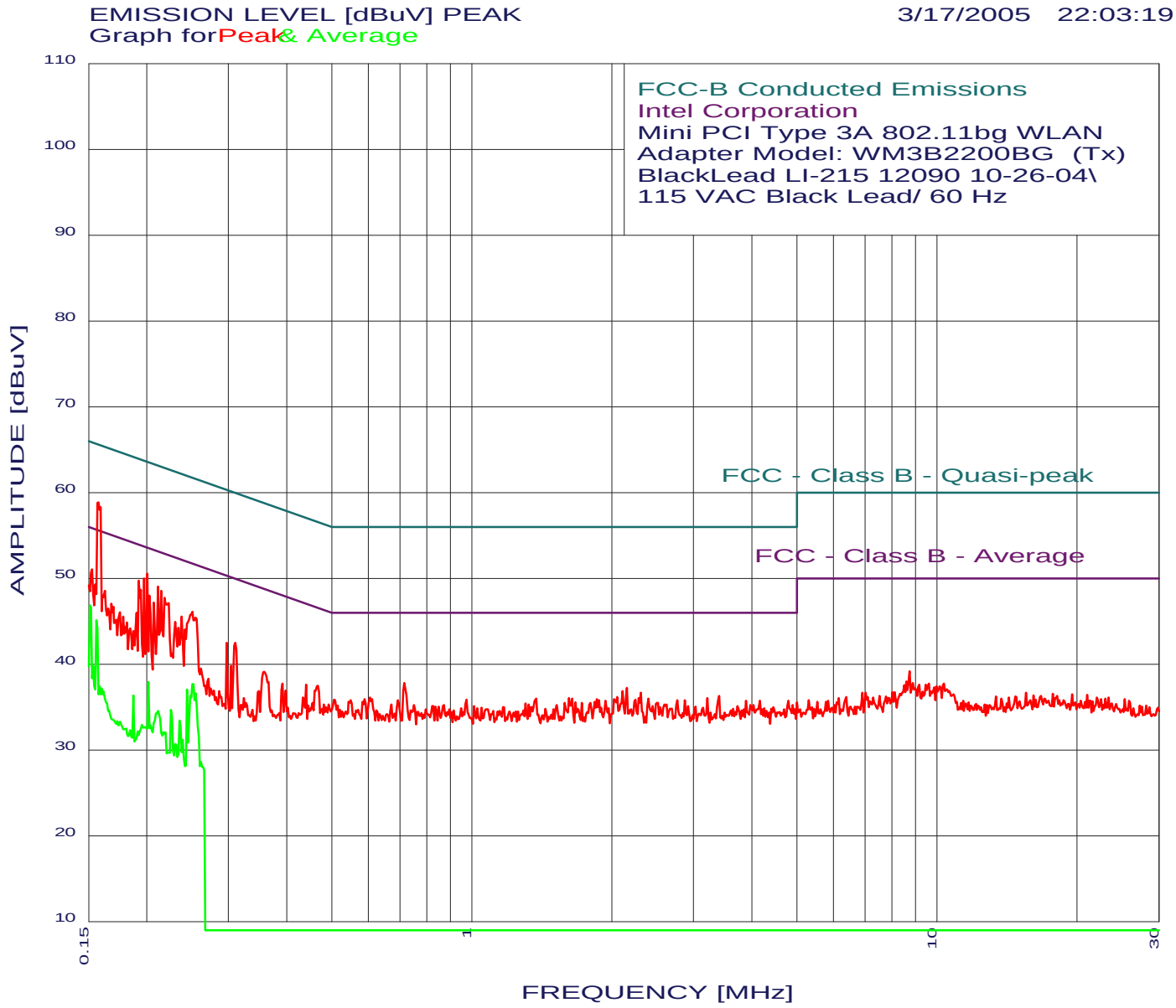
Band Edge – Channel 11 – Vertical Polarization – 802.11 g Mode – Hitachi Antenna



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

CONDUCTED EMISSIONS

DATA SHEETS



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/17/2005 22:03:19

Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Transmit Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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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	58.86	55.60	3.26*
2	0.201	50.54	53.58	-3.04*
3	0.198	49.94	53.71	-3.77*
4	0.212	49.03	53.14	-4.11*
5	0.193	49.74	53.93	-4.18*
6	0.215	48.53	53.00	-4.48*
7	0.152	51.06	55.86	-4.80*
8	0.219	47.73	52.87	-5.14*
9	0.203	47.94	53.49	-5.55*
10	0.251	46.10	51.73	-5.63*
11	0.207	47.13	53.31	-6.18*
12	0.155	49.26	55.73	-6.47*
13	0.238	45.51	52.17	-6.66*
14	0.162	48.56	55.34	-6.78*
15	0.150	49.16	56.00	-6.84*
16	0.310	42.46	49.97	-7.51
17	0.230	44.92	52.43	-7.52*
18	0.297	42.47	50.32	-7.86
19	0.168	47.05	55.07	-8.02*
20	0.242	44.01	52.04	-8.03*
21	0.190	45.94	54.01	-8.07*
22	0.234	44.21	52.30	-8.08*
23	0.716	37.79	46.00	-8.21
24	0.175	46.05	54.72	-8.67*
25	2.156	37.24	46.00	-8.76
26	0.178	45.55	54.59	-9.04*
27	0.466	37.48	46.58	-9.10
28	2.111	36.83	46.00	-9.17
29	2.310	36.65	46.00	-9.35
30	0.440	37.59	47.06	-9.48
31	0.182	44.85	54.41	-9.56*
32	0.358	39.12	48.78	-9.66
33	3.401	36.26	46.00	-9.74
34	2.055	36.13	46.00	-9.87
35	0.605	36.08	46.00	-9.92
36	1.620	36.04	46.00	-9.96
37	3.209	36.04	46.00	-9.96
38	1.374	36.00	46.00	-10.00
39	2.397	35.96	46.00	-10.04
40	1.859	35.89	46.00	-10.11

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

COMPATIBLE ELECTRONICS

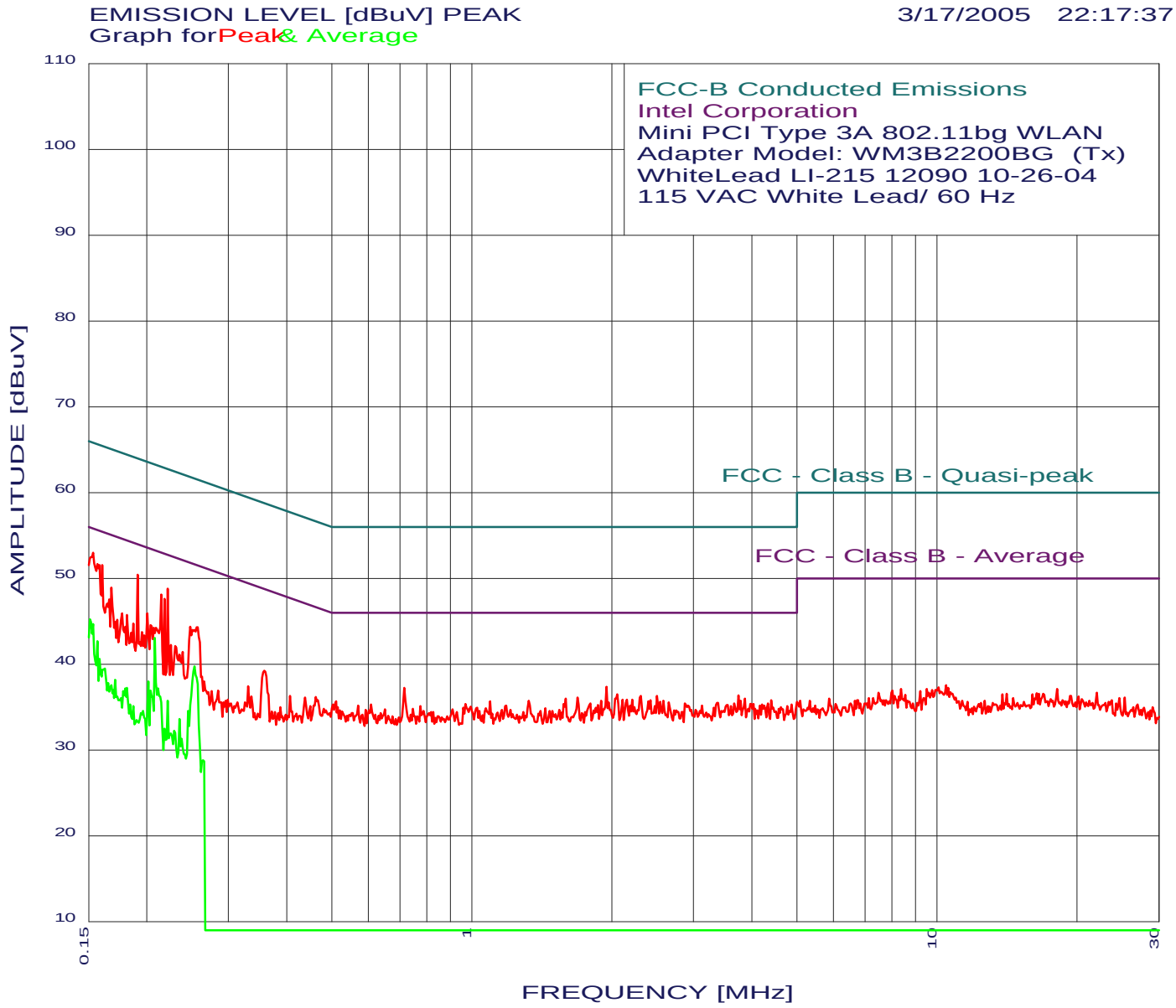
3/17/2005 22:03:19

Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Transmit Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

---

28 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	46.86	55.95	-9.09
2	0.156	45.07	55.69	-10.62
3	0.251	37.65	51.73	-14.08
4	0.244	37.04	51.95	-14.91
5	0.255	36.61	51.60	-14.99
6	0.248	36.25	51.82	-15.56
7	0.202	37.90	53.53	-15.63
8	0.153	39.80	55.82	-16.02
9	0.150	39.74	56.00	-16.26
10	0.187	36.37	54.15	-17.78
11	0.226	34.64	52.61	-17.97
12	0.158	37.42	55.56	-18.14
13	0.160	37.15	55.47	-18.32
14	0.162	36.84	55.38	-18.55
15	0.212	34.53	53.14	-18.61
16	0.235	33.39	52.25	-18.86
17	0.204	32.84	53.44	-20.61
18	0.220	32.04	52.83	-20.78
19	0.217	32.05	52.91	-20.87
20	0.196	32.89	53.80	-20.91
21	0.239	31.15	52.12	-20.97
22	0.173	33.35	54.81	-21.46
23	0.175	33.25	54.72	-21.47
24	0.230	30.65	52.43	-21.79
25	0.192	32.15	53.97	-21.82
26	0.181	32.49	54.46	-21.97
27	0.184	32.27	54.28	-22.02
28	0.262	28.61	51.38	-22.76



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/17/2005 22:17:37

Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Transmit Mode)
With Hitachi 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	0.153	52.95	55.82	-2.87*
2	0.192	50.42	53.97	-3.55*
3	0.161	51.54	55.43	-3.89*
4	0.222	48.80	52.74	-3.94*
5	0.150	51.55	56.00	-4.45*
6	0.215	48.10	53.00	-4.90*
7	0.219	47.60	52.87	-5.27*
8	0.168	48.94	55.07	-6.13*
9	0.248	44.37	51.82	-7.44*
10	0.166	47.54	55.16	-7.62*
11	0.201	45.92	53.58	-7.66*
12	1.950	37.33	46.00	-8.67
13	0.182	45.73	54.41	-8.68*
14	0.177	45.93	54.63	-8.70*
15	0.716	37.20	46.00	-8.80
16	0.204	44.51	53.44	-8.93*
17	0.187	44.73	54.15	-9.42*
18	2.055	36.45	46.00	-9.55
19	0.358	39.20	48.78	-9.58
20	3.741	36.33	46.00	-9.67
21	0.173	45.13	54.81	-9.68
22	2.501	36.30	46.00	-9.70
23	2.310	36.27	46.00	-9.73
24	1.690	36.07	46.00	-9.93
25	1.594	35.95	46.00	-10.05
26	3.862	35.95	46.00	-10.05
27	0.196	43.72	53.80	-10.08*
28	2.214	35.86	46.00	-10.14
29	2.156	35.86	46.00	-10.14
30	2.111	35.85	46.00	-10.15
31	4.408	35.79	46.00	-10.21
32	2.423	35.79	46.00	-10.21
33	3.781	35.74	46.00	-10.26
34	1.899	35.72	46.00	-10.28
35	2.582	35.70	46.00	-10.30
36	1.325	35.70	46.00	-10.30
37	0.510	35.67	46.00	-10.33
38	0.230	42.09	52.43	-10.34*
39	1.094	35.65	46.00	-10.35
40	0.198	43.32	53.71	-10.39

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

COMPATIBLE ELECTRONICS

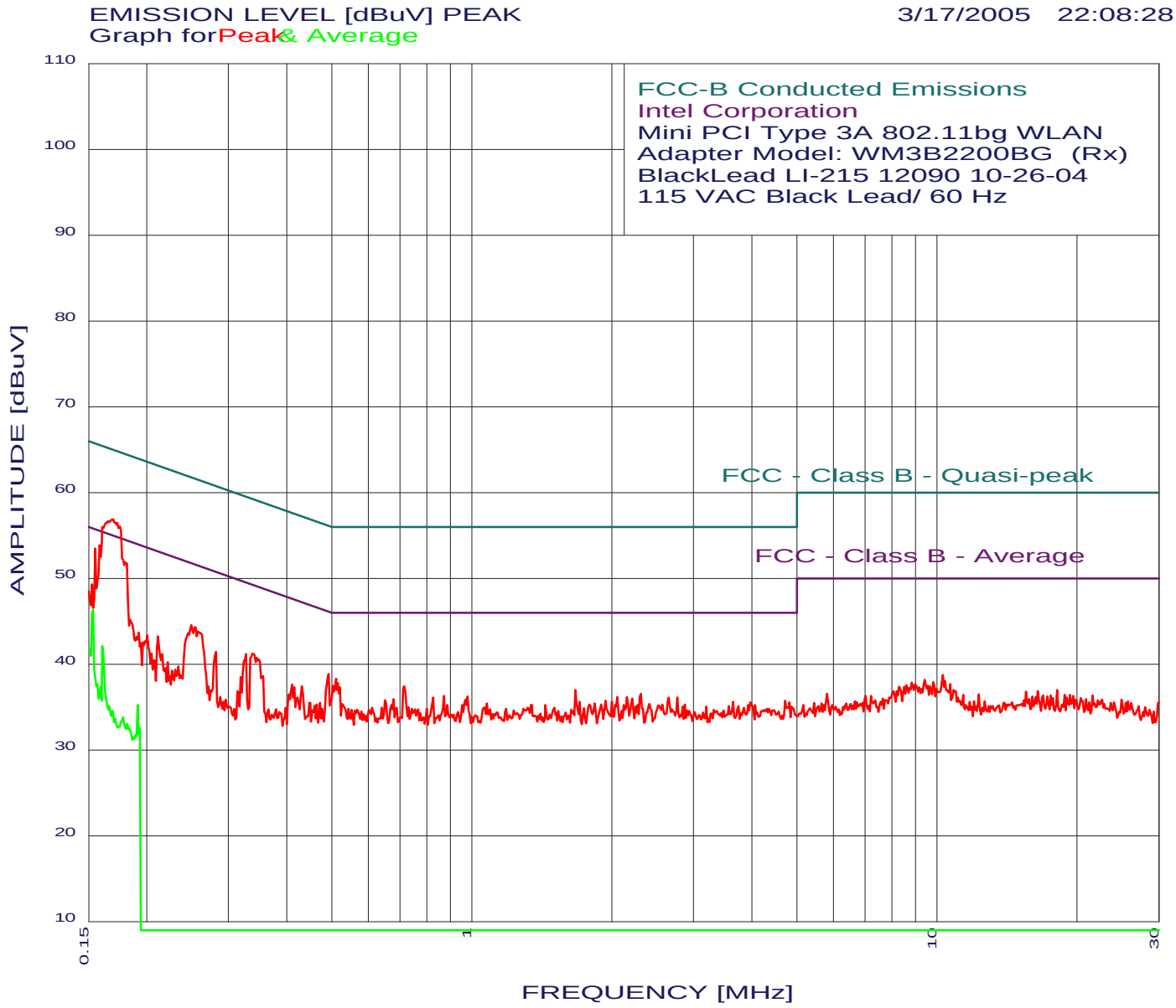
3/17/2005 22:17:37

Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Transmit Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

---

32 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	0.208	43.01	53.27	-10.26
2	0.151	45.25	55.95	-10.71
3	0.153	44.67	55.82	-11.15
4	0.254	39.72	51.64	-11.92
5	0.150	43.10	56.00	-12.90
6	0.157	42.64	55.64	-13.00
7	0.158	40.60	55.56	-14.95
8	0.202	37.99	53.53	-15.55
9	0.162	39.44	55.34	-15.90
10	0.212	37.13	53.14	-16.01
11	0.204	36.92	53.44	-16.52
12	0.171	38.17	54.90	-16.73
13	0.222	35.73	52.74	-17.01
14	0.182	37.23	54.41	-17.18
15	0.180	37.17	54.50	-17.33
16	0.246	34.52	51.90	-17.38
17	0.165	37.77	55.20	-17.43
18	0.168	37.51	55.07	-17.56
19	0.178	36.82	54.59	-17.77
20	0.170	37.00	54.98	-17.99
21	0.176	36.06	54.68	-18.61
22	0.235	33.59	52.25	-18.66
23	0.184	35.27	54.28	-19.02
24	0.187	35.08	54.15	-19.07
25	0.197	34.54	53.75	-19.21
26	0.195	34.30	53.84	-19.54
27	0.229	32.20	52.48	-20.28
28	0.219	32.44	52.87	-20.43
29	0.190	33.49	54.01	-20.52
30	0.226	31.90	52.61	-20.71
31	0.238	31.31	52.17	-20.86
32	0.265	28.77	51.29	-22.52



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/17/2005 22:08:28

Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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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	0.169	56.85	55.03	1.83*
2	0.158	53.86	55.56	-1.70*
3	0.155	53.46	55.73	-2.27*
4	0.152	49.26	55.86	-6.60*
5	0.492	38.87	46.14	-7.27
6	0.250	44.50	51.77	-7.27
7	0.150	48.46	56.00	-7.54*
8	0.510	38.27	46.00	-7.73
9	0.338	41.23	49.26	-8.03
10	0.327	41.14	49.53	-8.38
11	0.716	37.39	46.00	-8.61
12	1.671	36.96	46.00	-9.04
13	0.282	41.38	50.76	-9.38
14	2.310	36.55	46.00	-9.45
15	0.872	36.31	46.00	-9.69
16	0.979	36.22	46.00	-9.78
17	0.431	37.39	47.24	-9.85
18	2.156	36.14	46.00	-9.86
19	2.055	36.13	46.00	-9.87
20	0.826	36.10	46.00	-9.90
21	2.766	36.10	46.00	-9.90
22	0.212	43.23	53.14	-9.91
23	2.651	36.09	46.00	-9.91
24	0.411	37.59	47.63	-10.04
25	2.214	35.94	46.00	-10.06
26	0.679	35.89	46.00	-10.11
27	0.651	35.79	46.00	-10.21
28	0.201	43.34	53.58	-10.24
29	0.415	37.29	47.55	-10.26
30	1.939	35.71	46.00	-10.29
31	4.722	35.69	46.00	-10.31
32	2.002	35.62	46.00	-10.38
33	3.644	35.58	46.00	-10.42
34	1.708	35.56	46.00	-10.44
35	3.966	35.52	46.00	-10.48
36	1.077	35.44	46.00	-10.56
37	1.840	35.39	46.00	-10.61
38	0.527	35.37	46.00	-10.63
39	2.410	35.36	46.00	-10.64
40	2.870	35.31	46.00	-10.69

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

COMPATIBLE ELECTRONICS

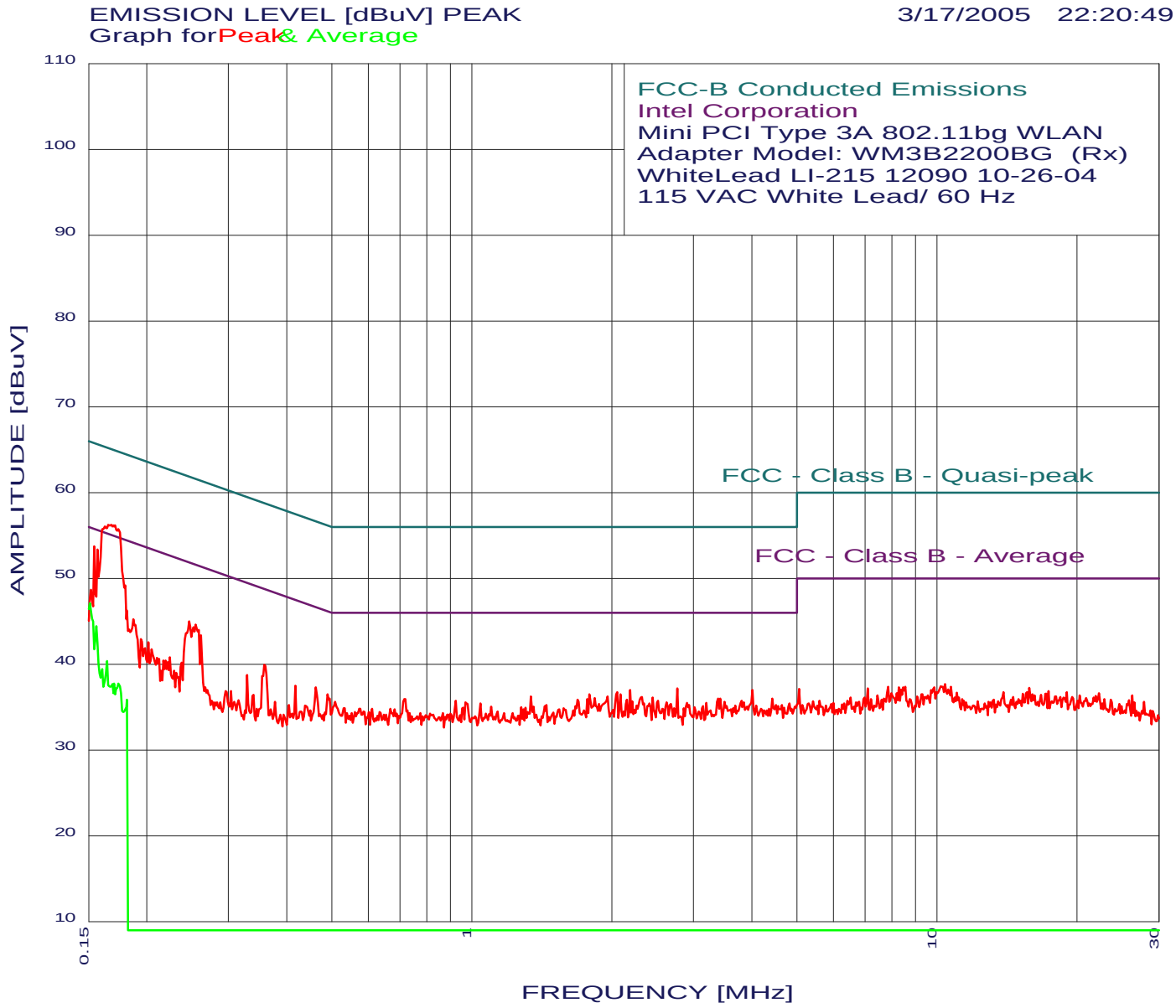
3/17/2005 22:08:28

Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER :Benigno Chavez

---

15 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	0.153	46.25	55.82	-9.57
2	0.161	42.10	55.43	-13.33
3	0.151	41.71	55.95	-14.24
4	0.150	41.59	56.00	-14.41
5	0.157	37.67	55.64	-17.97
6	0.159	37.34	55.51	-18.18
7	0.192	35.23	53.97	-18.74
8	0.166	35.06	55.16	-20.09
9	0.169	34.53	55.03	-20.49
10	0.178	33.80	54.59	-20.79
11	0.171	33.64	54.90	-21.26
12	0.194	32.53	53.88	-21.35
13	0.182	33.01	54.41	-21.40
14	0.189	31.69	54.06	-22.36
15	0.187	31.50	54.15	-22.65



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/17/2005 22:20:49

Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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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	0.165	56.24	55.20	1.04*
2	0.154	53.75	55.78	-2.03*
3	0.157	53.34	55.64	-2.30*
4	0.247	44.97	51.86	-6.89
5	0.255	44.57	51.60	-7.03
6	0.152	48.65	55.91	-7.26*
7	0.262	43.36	51.38	-8.02
8	2.766	37.13	46.00	-8.87
9	0.358	39.90	48.78	-8.88
10	0.187	45.23	54.15	-8.92*
11	4.008	36.96	46.00	-9.04
12	2.190	36.96	46.00	-9.04
13	2.055	36.75	46.00	-9.25
14	0.461	37.28	46.67	-9.39
15	1.790	36.49	46.00	-9.51
16	2.089	36.45	46.00	-9.55
17	0.489	36.47	46.18	-9.71
18	1.960	36.23	46.00	-9.77
19	1.338	36.20	46.00	-9.80
20	2.322	36.18	46.00	-9.82
21	2.449	36.09	46.00	-9.91
22	1.840	36.01	46.00	-9.99
23	3.419	36.00	46.00	-10.00
24	3.383	35.99	46.00	-10.01
25	4.432	35.99	46.00	-10.01
26	0.417	37.49	47.50	-10.01
27	0.720	35.90	46.00	-10.10
28	1.772	35.89	46.00	-10.11
29	1.690	35.87	46.00	-10.13
30	2.156	35.86	46.00	-10.14
31	3.800	35.74	46.00	-10.26
32	0.924	35.72	46.00	-10.28
33	2.514	35.70	46.00	-10.30
34	2.214	35.66	46.00	-10.34
35	3.492	35.61	46.00	-10.39
36	0.508	35.57	46.00	-10.43
37	0.969	35.52	46.00	-10.48
38	2.624	35.51	46.00	-10.49
39	3.192	35.47	46.00	-10.53
40	2.900	35.44	46.00	-10.56

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

COMPATIBLE ELECTRONICS

3/17/2005 22:20:49

Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
WM3B2200BG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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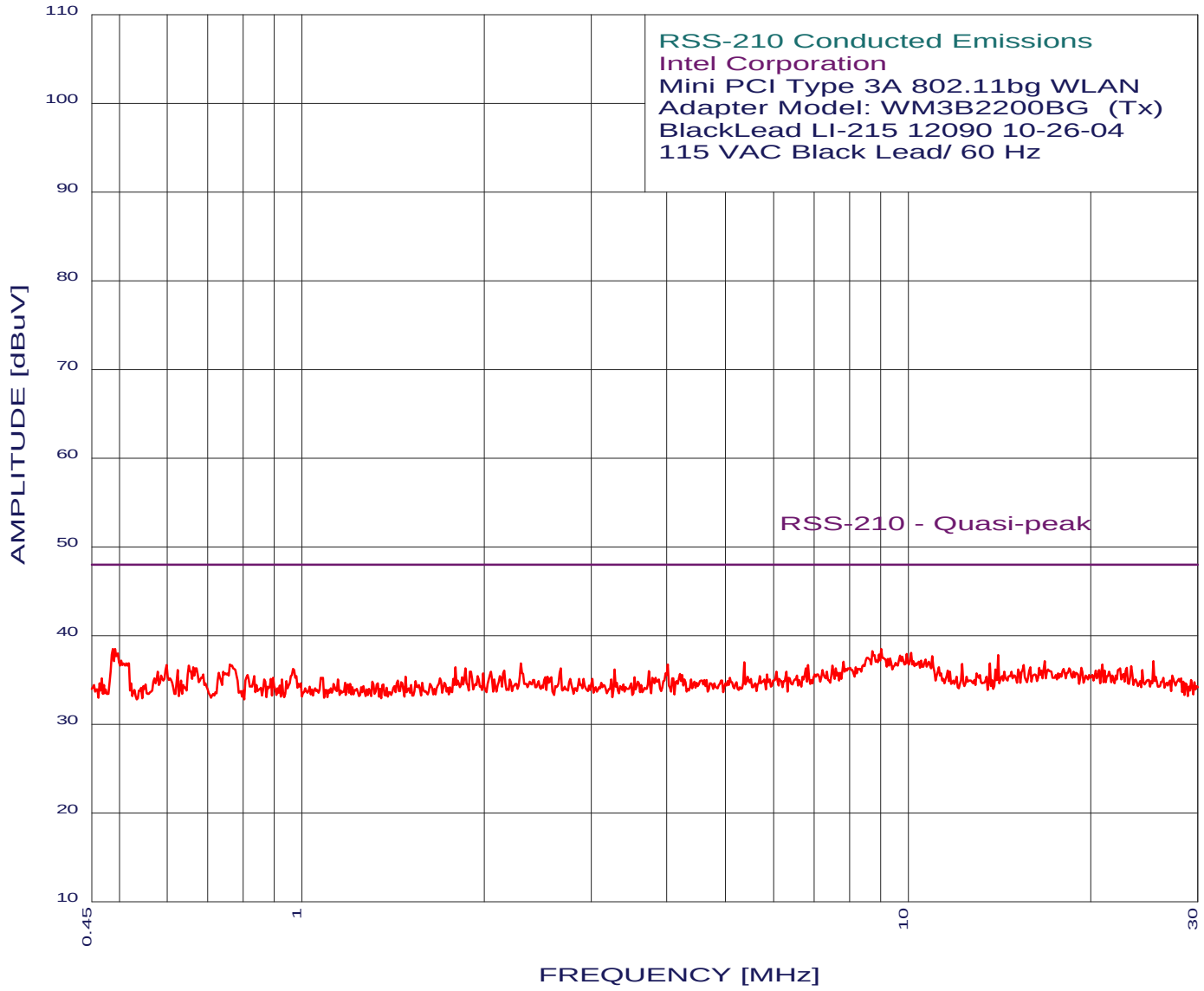
9 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.10 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.151	47.08	55.95	-8.88
2	0.150	46.38	56.00	-9.62
3	0.156	44.42	55.69	-11.26
4	0.164	40.36	55.25	-14.89
5	0.161	39.42	55.43	-16.01
6	0.174	37.71	54.77	-17.05
7	0.170	37.72	54.94	-17.23
8	0.169	37.64	55.03	-17.39
9	0.182	35.86	54.41	-18.55

EMISSION LEVEL [dBuV] PEAK
Graph forPeak

3/17/2005 22:12:59



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/17/2005 22:12:59

Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Transmit Mode)
With Hitachi Antenna
TEST ENGINEER :Benigno Chavez

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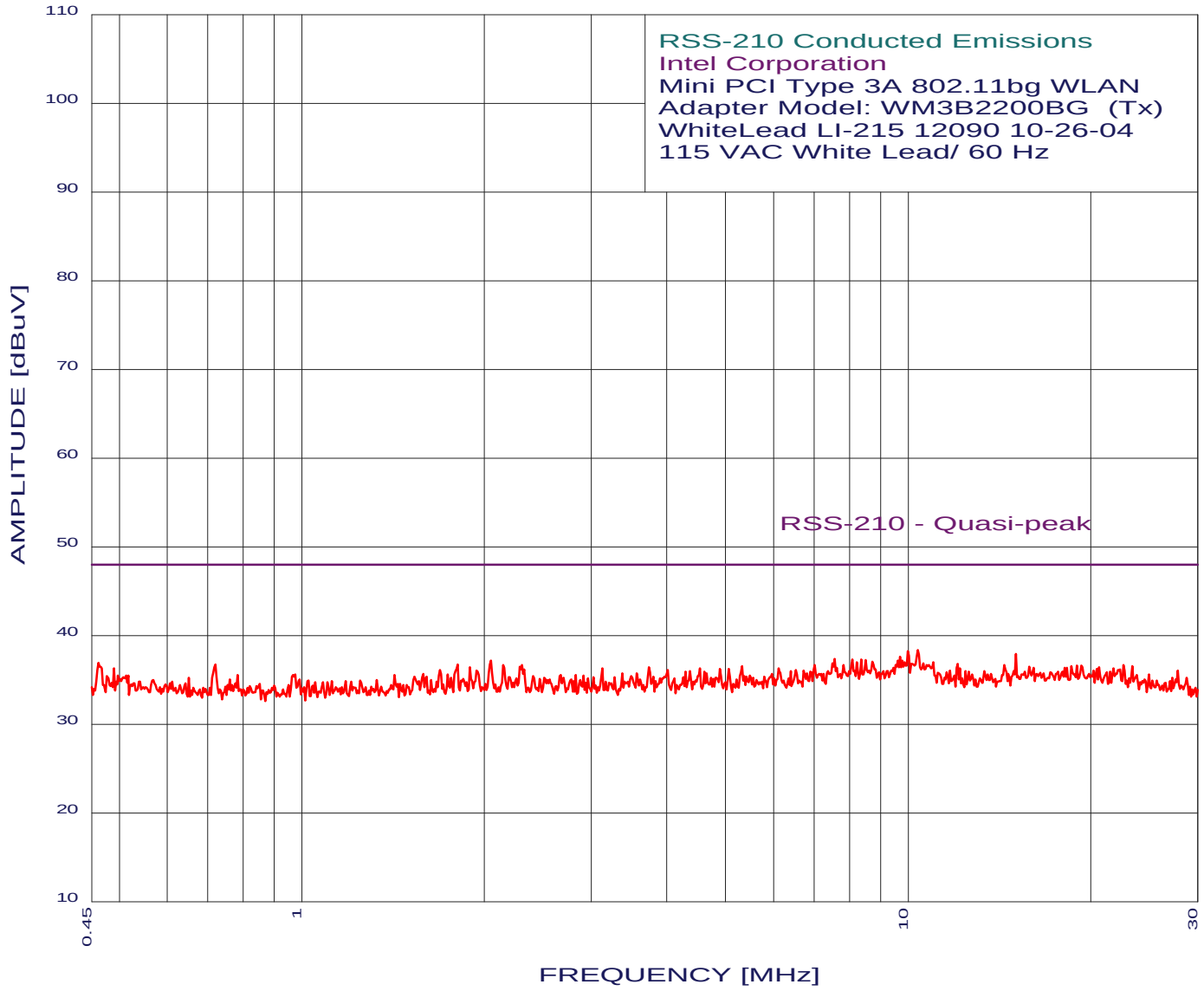
41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.488	38.47	48.00	-9.53
2	0.492	38.47	48.00	-9.53
3	9.027	38.46	48.00	-9.54
4	8.730	38.25	48.00	-9.75
5	10.109	38.01	48.00	-9.99
6	9.944	37.90	48.00	-10.10
7	14.088	37.78	48.00	-10.22
8	10.953	37.67	48.00	-10.33
9	25.366	37.09	48.00	-10.91
10	16.810	37.06	48.00	-10.94
11	7.827	37.00	48.00	-11.00
12	5.364	36.96	48.00	-11.04
13	13.627	36.85	48.00	-11.15
14	2.296	36.85	48.00	-11.15
15	12.268	36.76	48.00	-11.24
16	4.013	36.72	48.00	-11.28
17	20.912	36.72	48.00	-11.28
18	0.761	36.70	48.00	-11.30
19	0.599	36.68	48.00	-11.32
20	15.519	36.68	48.00	-11.32
21	6.842	36.66	48.00	-11.34
22	7.506	36.59	48.00	-11.41
23	0.651	36.59	48.00	-11.41
24	23.325	36.53	48.00	-11.47
25	15.917	36.40	48.00	-11.60
26	11.230	36.39	48.00	-11.61
27	0.662	36.39	48.00	-11.61
28	1.792	36.38	48.00	-11.62
29	16.457	36.34	48.00	-11.66
30	19.306	36.33	48.00	-11.67
31	22.929	36.32	48.00	-11.68
32	7.600	36.29	48.00	-11.71
33	1.861	36.29	48.00	-11.71
34	2.671	36.29	48.00	-11.71
35	22.367	36.28	48.00	-11.72
36	18.431	36.27	48.00	-11.73
37	6.786	36.26	48.00	-11.74
38	18.054	36.25	48.00	-11.75
39	0.966	36.22	48.00	-11.78
40	17.024	36.18	48.00	-11.82
41	0.450	33.98	48.00	-14.02

EMISSION LEVEL [dBuV] PEAK
Graph forPeak

3/17/2005 22:24:54



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/17/2005 22:24:54

Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Transmit Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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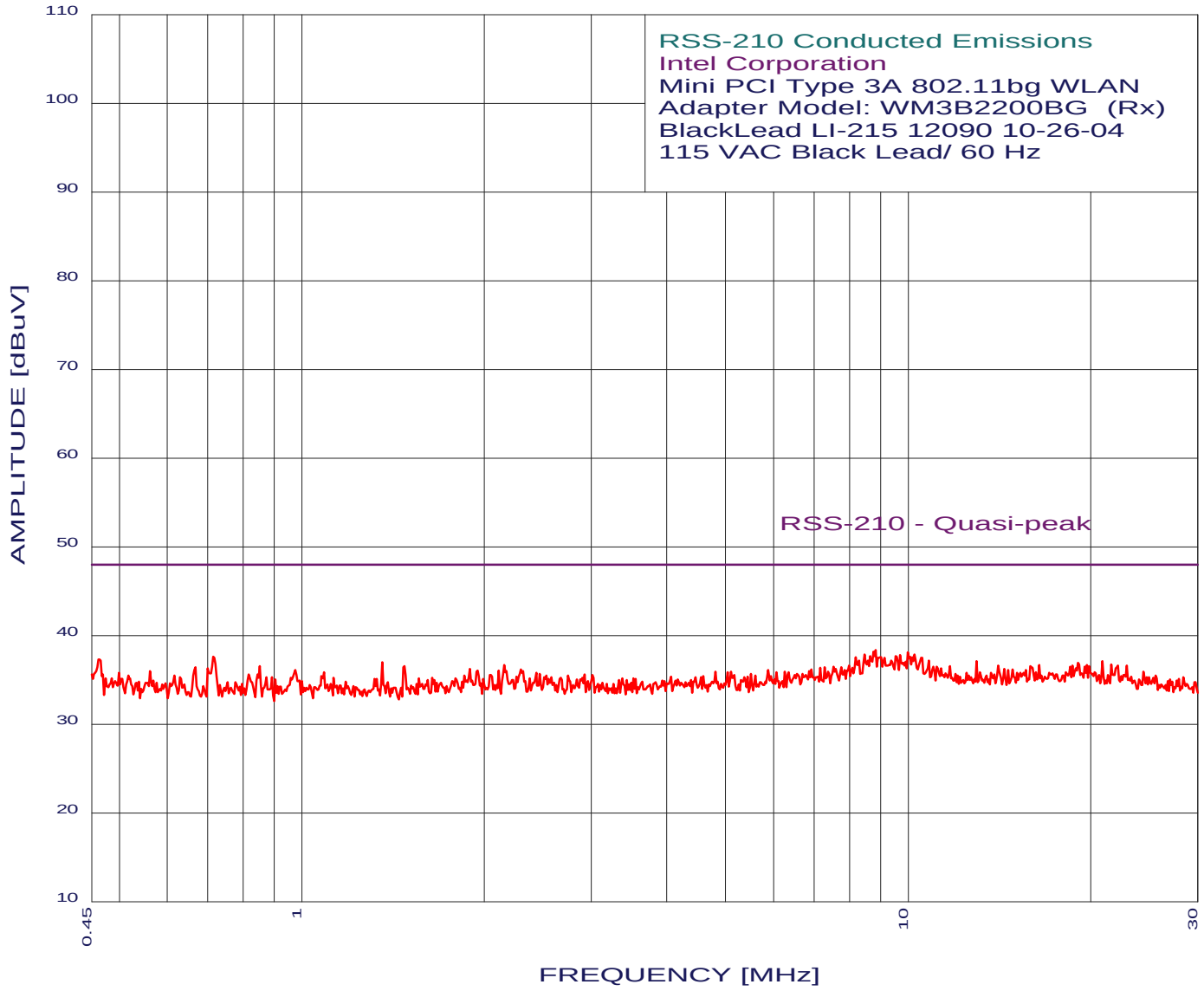
41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	10.371	38.32	48.00	-9.68
2	9.986	38.19	48.00	-9.81
3	15.071	37.89	48.00	-10.11
4	9.696	37.58	48.00	-10.42
5	7.569	37.36	48.00	-10.64
6	8.372	37.30	48.00	-10.70
7	8.093	37.29	48.00	-10.71
8	8.512	37.21	48.00	-10.79
9	2.050	37.14	48.00	-10.86
10	8.730	37.02	48.00	-10.98
11	8.231	36.99	48.00	-11.01
12	0.462	36.88	48.00	-11.12
13	12.063	36.75	48.00	-11.25
14	1.808	36.70	48.00	-11.30
15	0.721	36.70	48.00	-11.30
16	22.648	36.69	48.00	-11.31
17	2.305	36.67	48.00	-11.33
18	7.827	36.67	48.00	-11.33
19	2.147	36.66	48.00	-11.34
20	14.391	36.63	48.00	-11.37
21	7.018	36.63	48.00	-11.37
22	19.306	36.59	48.00	-11.41
23	18.988	36.59	48.00	-11.41
24	18.590	36.56	48.00	-11.44
25	5.318	36.53	48.00	-11.47
26	23.424	36.51	48.00	-11.49
27	15.849	36.45	48.00	-11.55
28	3.737	36.43	48.00	-11.57
29	20.646	36.43	48.00	-11.57
30	1.893	36.42	48.00	-11.58
31	18.280	36.33	48.00	-11.67
32	4.534	36.29	48.00	-11.71
33	21.805	36.29	48.00	-11.71
34	0.490	36.27	48.00	-11.73
35	6.109	36.27	48.00	-11.73
36	3.133	36.27	48.00	-11.73
37	12.166	36.26	48.00	-11.74
38	20.473	36.24	48.00	-11.76
39	5.057	36.21	48.00	-11.79
40	4.890	36.21	48.00	-11.79
41	0.450	34.18	48.00	-13.82

EMISSION LEVEL [dBuV] PEAK
Graph forPeak

3/17/2005 22:09:43



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/17/2005 22:09:43

Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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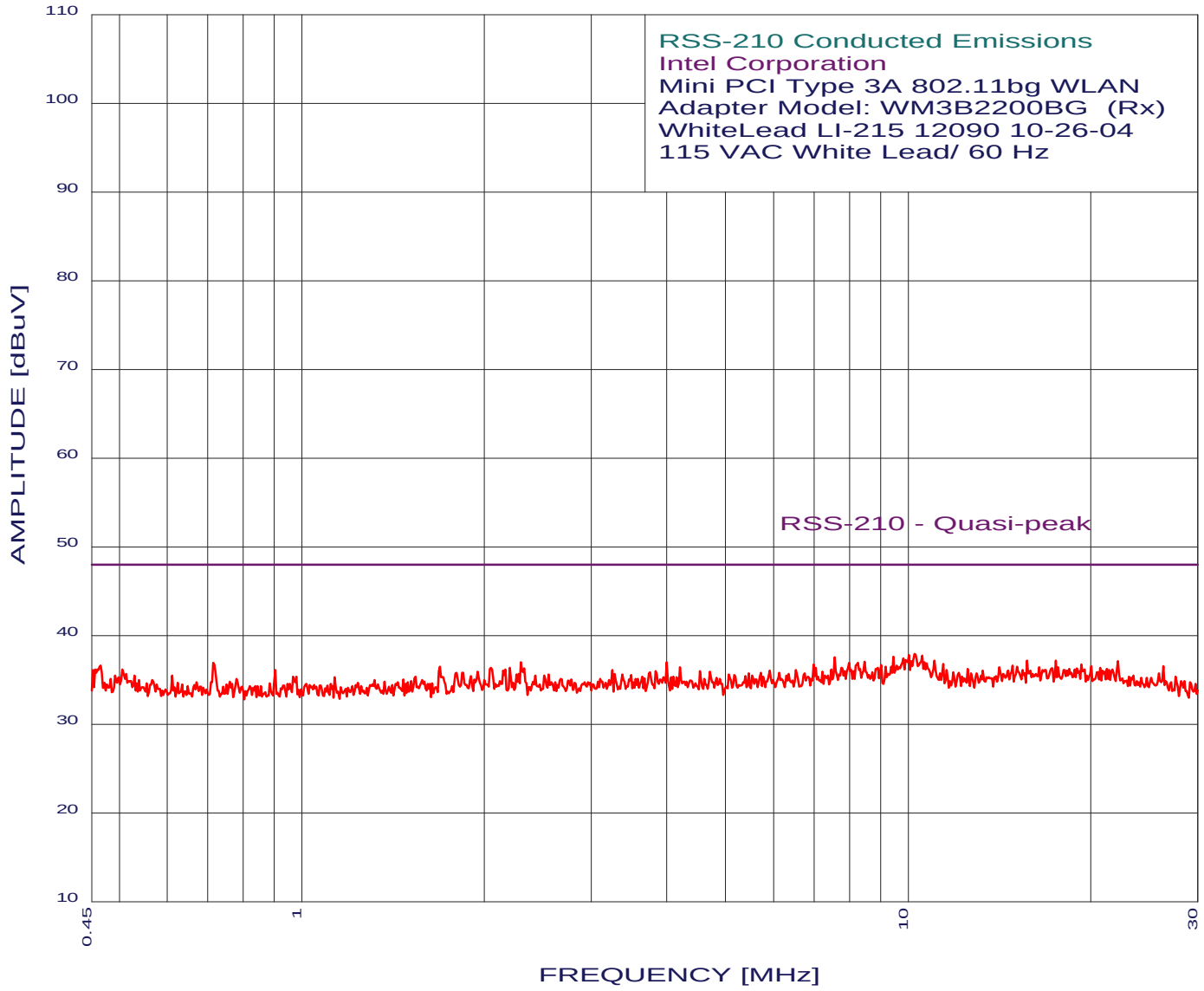
41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	8.841	38.35	48.00	-9.65
2	9.986	38.11	48.00	-9.89
3	8.477	37.83	48.00	-10.17
4	10.240	37.82	48.00	-10.18
5	9.696	37.79	48.00	-10.21
6	9.533	37.68	48.00	-10.32
7	0.715	37.59	48.00	-10.41
8	9.027	37.56	48.00	-10.44
9	8.196	37.52	48.00	-10.48
10	9.142	37.47	48.00	-10.53
11	10.546	37.44	48.00	-10.56
12	0.462	37.28	48.00	-10.72
13	10.815	37.16	48.00	-10.84
14	20.912	37.12	48.00	-10.88
15	12.957	37.11	48.00	-10.89
16	1.358	36.99	48.00	-11.01
17	19.067	36.92	48.00	-11.08
18	21.622	36.74	48.00	-11.26
19	19.717	36.65	48.00	-11.35
20	16.457	36.64	48.00	-11.36
21	2.156	36.64	48.00	-11.36
22	22.929	36.62	48.00	-11.38
23	7.993	36.61	48.00	-11.39
24	18.670	36.59	48.00	-11.41
25	22.180	36.58	48.00	-11.42
26	14.088	36.58	48.00	-11.42
27	19.885	36.54	48.00	-11.46
28	11.714	36.52	48.00	-11.48
29	1.477	36.52	48.00	-11.48
30	0.852	36.51	48.00	-11.49
31	15.917	36.50	48.00	-11.50
32	7.537	36.49	48.00	-11.51
33	11.138	36.48	48.00	-11.52
34	18.511	36.48	48.00	-11.52
35	10.999	36.47	48.00	-11.53
36	7.761	36.40	48.00	-11.60
37	0.668	36.39	48.00	-11.61
38	7.286	36.38	48.00	-11.62
39	7.166	36.37	48.00	-11.63
40	14.391	36.20	48.00	-11.80
41	0.450	35.58	48.00	-12.42

EMISSION LEVEL [dBuV] PEAK
Graph forPeak

3/17/2005 22:22:03



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/17/2005 22:22:03

Intel Corporation
Mini PCI Type 3A 802.11bg WLAN Adapter
Model: WM3B2200BG (Receive Mode)
With Hitachi 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	10.240	37.91	48.00	-10.09
2	10.027	37.80	48.00	-10.20
3	10.546	37.74	48.00	-10.26
4	9.455	37.56	48.00	-10.44
5	7.569	37.56	48.00	-10.44
6	9.820	37.39	48.00	-10.61
7	11.045	37.18	48.00	-10.82
8	17.527	37.17	48.00	-10.83
9	15.714	37.14	48.00	-10.86
10	22.180	37.11	48.00	-10.89
11	8.477	37.01	48.00	-10.99
12	2.296	36.97	48.00	-11.03
13	3.996	36.96	48.00	-11.04
14	8.266	36.90	48.00	-11.10
15	0.715	36.90	48.00	-11.10
16	7.993	36.88	48.00	-11.12
17	11.422	36.80	48.00	-11.20
18	6.988	36.72	48.00	-11.28
19	19.306	36.69	48.00	-11.31
20	9.027	36.64	48.00	-11.36
21	0.466	36.58	48.00	-11.42
22	14.879	36.57	48.00	-11.43
23	20.053	36.55	48.00	-11.45
24	26.348	36.50	48.00	-11.50
25	15.135	36.49	48.00	-11.51
26	1.690	36.47	48.00	-11.53
27	9.181	36.45	48.00	-11.55
28	14.149	36.41	48.00	-11.59
29	16.457	36.39	48.00	-11.61
30	17.678	36.39	48.00	-11.61
31	4.203	36.38	48.00	-11.62
32	7.761	36.37	48.00	-11.63
33	2.201	36.36	48.00	-11.64
34	2.050	36.34	48.00	-11.66
35	8.916	36.33	48.00	-11.67
36	20.735	36.33	48.00	-11.67
37	18.988	36.29	48.00	-11.71
38	17.309	36.26	48.00	-11.74
39	21.267	36.22	48.00	-11.78
40	12.525	36.19	48.00	-11.81
41	0.450	33.78	48.00	-14.22
