APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

FCC 15.247

Intel Corporation — Date: 3/11/05

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

Model: WM3A2915ABG — Tested By: Arnold Gaffud

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

With Hitachi Antenna

Channel 1 - 802.11 b Mode Gain : 15.0 Peak Power: 17.72 dBm Avg. Power: 15.74 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	52.69	V	74	-21.31	Peak	1.76	135	
4824	50.14	V	54	-3.86	Avg	1.76	135	
7236	42.67	V	74	-31.33	Peak	2	135	
7236	29.32	V	54	-24.68	Avg	2	135	
9648	49.85	V	--	--	Peak	2.45	315	Not in Restricted Band
9648	41.77	V	--	--	Avg	2.45	315	Not in Restricted Band
12060	47.19	V	74	-26.81	Peak	1.28	270	
12060	32.73	V	54	-21.27	Avg	1.28	270	
14472	50.73	V	74	-23.27	Peak	2.59	45	
14472	41.01	V	54	-12.99	Avg	2.59	45	
16884	49.98	V	--	--	Peak	1.45	315	Not in Restricted Band
16884	35.07	V	--	--	Avg	1.45	315	Not in Restricted Band
19296		V	74	-74	Peak			No Emission
19296		V	54	-54	Avg			Detected
21708		V	--	--	Peak			No Emission
21708		V	--	--	Avg			Detected
24120		V	--	--	Peak			No Emission
24120		V	--	--	Avg			Detected

FCC 15.247
Intel Corporation Date: 3/11/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Arnold Gaffud
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Hitachi Antenna
Channel 1 - 802.11 b Mode Gain : 15.0 Peak Power: 17.72 dBm Avg. Power: 15.74 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	51.46	H	74	-22.54	Peak	1.32	270	
4824	48.99	H	54	-5.01	Avg	1.32	270	
7236	42.54	H	74	-31.46	Peak	2.62	225	
7236	27.7	H	54	-26.3	Avg	2.62	225	
9648	51.57	H	--	--	Peak	3	135	Not in Restricted Band
9648	46.09	H	--	--	Avg	3	135	Not in Restricted Band
12060	47.94	H	74	-26.06	Peak	2.34	225	
12060	33.78	H	54	-20.22	Avg	2.34	225	
14472	52.31	H	74	-21.69	Peak	3.03	135	
14472	43.72	H	54	-10.28	Avg	3.03	135	
16884	38.45	H	--	--	Peak	2.22	135	Not in Restricted Band
16884	23.04	H	--	--	Avg	2.22	135	Not in Restricted Band
19296		H	74	-74	Peak			No Emission
19296		H	54	-54	Avg			Detected
21708		H	--	--	Peak			No Emission
21708		H	--	--	Avg			Detected
24120		H	--	--	Peak			No Emission
24120		H	--	--	Avg			Detected

FCC 15.247
Intel Corporation Date: 3/11/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Arnold Gaffud
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Hitachi Antenna
Channel 6 - 802.11 b Mode Gain : 16.0 Peak Power: 18.96 dBm Avg. Power: 17.01 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	54.34	V	74	-19.66	Peak	2.63	135	
4874	52.78	V	54	-1.22	Avg	2.63	135	
7311	43.29	V	74	-30.71	Peak	3	135	
7311	28.17	V	54	-25.83	Avg	3	135	
9748	47.38	V	--	--	Peak	2.09	315	Not in Restricted Band
9748	34.55	V	--	--	Avg	2.09	315	Not in Restricted Band
12185	48.09	V	74	-25.91	Peak	2.38	270	
12185	34.9	V	54	-19.1	Avg	2.38	270	
14622	53.34	V	--	--	Peak	2.3	225	Not in Restricted Band
14622	47.17	V	--	--	Avg	2.3	225	Not in Restricted Band
17059	51	V	--	--	Peak	1.85	270	Not in Restricted Band
17059	35.72	V	--	--	Avg	1.85	270	Not in Restricted Band
19496		V	74	-74	Peak			No Emission
19496		V	54	-54	Avg			Detected
21933		V	--	--	Peak			No Emission
21933		V	--	--	Avg			Detected
22001		V	74	-74	Peak			No Emission
22001		V	54	-54	Avg			Detected
24370		V	--	--	Peak			No Emission
24370		V	--	--	Avg			Detected

FCC 15.247
Intel Corporation Date: 3/11/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Arnold Gaffud
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Hitachi Antenna
Channel 6 - 802.11 b Mode Gain : 16.0 Peak Power: 18.96 dBm Avg. Power: 17.01 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	55.07	H	74	-18.93	Peak	1.3	315	
4874	53.59	H	54	-0.41	Avg	1.3	315	
7311	42.56	H	74	-31.44	Peak	1.5	315	
7311	28.01	H	54	-25.99	Avg	1.5	315	
9748	49.74	H	--	--	Peak	2.99	135	Not in Restricted Band
9748	43.48	H	--	--	Avg	2.99	135	Not in Restricted Band
12185	47.51	H	74	-26.49	Peak	1.4	270	
12185	32.58	H	54	-21.42	Avg	1.4	270	
14622	52.29	H	--	--	Peak	1.36	135	Not in Restricted Band
14622	45.59	H	--	--	Avg	1.36	135	Not in Restricted Band
17059	42.64	H	--	--	Peak	1.77	315	Not in Restricted Band
17059	27.87	H	--	--	Avg	1.77	315	Not in Restricted Band
19496		H	74	-74	Peak			No Emission
19496		H	54	-54	Avg			Detected
21933		H	--	--	Peak			No Emission
21933		H	--	--	Avg			Detected
22001		H	74	-74	Peak			No Emission
22001		H	54	-54	Avg			Detected
24370		H	--	--	Peak			No Emission
24370		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 3/11/05

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

Model: WM3A2915ABG — Tested By: Arnold Gaffud

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

With Hitachi Antenna

Channel 11 - 802.11 b Mode Gain : 16.5 Peak Power: 19.32 dBm Avg. Power: 17.36 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	51.37	V	74	-22.63	Peak	2.31	135	
4924	48.16	V	54	-5.84	Avg	2.31	135	
7386		V	74	-74	Peak			
7386		V	54	-54	Avg			
9848		V	--	--	Peak			Not in Restricted Band
9848		V	--	--	Avg			Not in Restricted Band
12310	46.33	V	74	-27.67	Peak	1.37	225	
12310	32.04	V	54	-21.96	Avg	1.37	225	
14772	52.66	V	--	--	Peak	1.72	45	Not in Restricted Band
14772	40.25	V	--	--	Avg	1.72	45	Not in Restricted Band
17234	51.98	V	--	--	Peak	1.3	135	Not in Restricted Band
17234	35.91	V	--	--	Avg	1.3	135	Not in Restricted Band
19696		V	74	-74	Peak			No Emission
19696		V	54	-54	Avg			Detected
22158		V	74	-74	Peak			No Emission
22158		V	54	-54	Avg			Detected
24620		V	--	--	Peak			No Emission
24620		V	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 3/11/05

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

Model: WM3A2915ABG — Tested By: Arnold Gaffud

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

With Hitachi Antenna

Channel 11 - 802.11 b Mode Gain : 16.5 Peak Power: 19.32 dBm Avg. Power: 17.36 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	50.35	H	74	-23.65	Peak	1.48	270	
4924	46.96	H	54	-7.04	Avg	1.48	270	
7386	43.86	H	74	-30.14	Peak	2.18	180	
7386	33.55	H	54	-20.45	Avg	2.18	180	
9848	46.77	H	--	--	Peak	2.05	45	Not in Restricted Band
9848	38.63	H	--	--	Avg	2.05	45	Not in Restricted Band
12310	46.96	H	74	-27.04	Peak	2	270	
12310	32.02	H	54	-21.98	Avg	2	270	
14772	50.81	H	--	--	Peak	2.4	45	Not in Restricted Band
14772	39.56	H	--	--	Avg	2.4	45	Not in Restricted Band
17234	44.78	H	--	--	Peak	2.5	270	Not in Restricted Band
17234	30.25	H	--	--	Avg	2.5	270	Not in Restricted Band
19696		H	74	-74	Peak			No Emission
19696		H	54	-54	Avg			Detected
22158		H	74	-74	Peak			No Emission
22158		H	54	-54	Avg			Detected
24620		H	--	--	Peak			No Emission
24620		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 3/11/05

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

Model: WM3A2915ABG — Tested By: Arnold Gaffud

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

Hitachi Antenna

Channel 1 - 802.11 g Mode Gain : 16.5 Peak Power: 24.07 dBm Avg. Power: 15.57 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	48.52	V	74	-25.48	Peak	1.26	180	
4824	34.67	V	54	-19.33	Avg	1.26	180	
7236	41.48	V	74	-32.52	Peak	2.23	225	
7236	27.87	V	54	-26.13	Avg	2.23	225	
9648	46.53	V	--	--	Peak	1.87	180	Not in Restricted Band
9648	32.48	V	--	--	Avg	1.87	180	Not in Restricted Band
12060	45.02	V	74	-28.98	Peak	2.22	180	
12060	32.26	V	54	-21.74	Avg	2.22	180	
14472	48.16	V	74	-25.84	Peak	1.75	225	
14472	34.44	V	54	-19.56	Avg	1.75	225	
16884	48.67	V	--	--	Peak	1.72	180	Not in Restricted Band
16884	34.9	V	--	--	Avg	1.72	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: 3/11/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Arnold Gaffud
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
Hitachi Antenna
Channel 1 - 802.11 g Mode Gain : 16.5 Peak Power: 24.07 dBm Avg. Power: 15.57 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	49.33	H	74	-24.67	Peak	2.17	135	
4824	34.53	H	54	-19.47	Avg	2.17	135	
7236	41.2	H	74	-32.8	Peak	2.35	180	
7236	27.43	H	54	-26.57	Avg	2.35	180	
9648	46.32	H	--	--	Peak	1.71	270	Not in Restricted Band
9648	32.31	H	--	--	Avg	1.71	270	Not in Restricted Band
12060	45.69	H	74	-28.31	Peak	2.42	180	
12060	32.36	H	54	-21.64	Avg	2.42	180	
14472	48.26	H	74	-25.74	Peak	1.94	135	
14472	34.74	H	54	-19.26	Avg	1.94	135	
16884	48.94	H	--	--	Peak	2.16	225	Not in Restricted Band
16884	35	H	--	--	Avg	2.16	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: 3/11/05

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

Model: WM3A2915ABG — Tested By: Arnold Gaffud

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

Hitachi Antenna

Channel 6 - 802.11 g Mode Gain : 16.5 Peak Power: 23.84 dBm Avg. Power: 15.17 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	48.31	V	74	-25.69	Peak	1.71	180	
4874	34.39	V	54	-19.61	Avg	1.71	180	
7311	41.73	V	74	-32.27	Peak	2.19	225	
7311	27.93	V	54	-26.07	Avg	2.19	225	
9748	44.38	V	--	--	Peak	2.34	180	Not in Restricted Band
9748	31.13	V	--	--	Avg	2.34	180	Not in Restricted Band
12185	45.77	V	74	-28.23	Peak	1.88	135	
12185	32.72	V	54	-21.28	Avg	1.88	135	
14622	47.97	V	--	--	Peak	1.74	180	Not in Restricted Band
14622	33.48	V	--	--	Avg	1.74	180	Not in Restricted Band
17059	50.47	V	--	--	Peak	1.88	225	Not in Restricted Band
17059	36.09	V	--	--	Avg	1.88	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: 3/11/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Arnold Gaffud
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
Hitachi Antenna
Channel 6 - 802.11 g Mode Gain : 16.5 Peak Power: 23.84 dBm Avg. Power: 15.17 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	48.23	H	74	-25.77	Peak	1.55	270	
4874	34.39	H	54	-19.61	Avg	1.55	270	
7311	41.77	H	74	-32.23	Peak	1.76	225	
7311	27.27	H	54	-26.73	Avg	1.76	225	
9748	44.6	H	--	--	Peak	2.28	180	Not in Restricted Band
9748	31.14	H	--	--	Avg	2.28	180	Not in Restricted Band
12185	46.37	H	74	-27.63	Peak	2.09	180	
12185	32.81	H	54	-21.19	Avg	2.09	180	
14622	47.8	H	--	--	Peak	1.48	135	Not in Restricted Band
14622	34.03	H	--	--	Avg	1.48	135	Not in Restricted Band
17059	49.89	H	--	--	Peak	1.8	180	Not in Restricted Band
17059	36.2	H	--	--	Avg	1.8	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: 3/11/05

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

Model: WM3A2915ABG — Tested By: Arnold Gaffud

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

Hitachi Antenna

Channel 11 - 802.11 g Mode Gain : 16.5 Peak Power: 23.62 dBm Avg. Power: 14.67 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	46.39	V	74	-27.61	Peak	1.38	180	
4924	31.64	V	54	-22.36	Avg	1.38	180	
7386	41.54	V	74	-32.46	Peak	1.73	225	
7386	27.38	V	54	-26.62	Avg	1.73	225	
9848	43.65	V	--	--	Peak	2.08	180	Not in Restricted Band
9848	30.09	V	--	--	Avg	2.08	180	Not in Restricted Band
12310	45.62	V	74	-28.38	Peak	1.94	135	
12310	31.79	V	54	-22.21	Avg	1.94	135	
14772	48.7	V	--	--	Peak	1.8	180	Not in Restricted Band
14772	35.1	V	--	--	Avg	1.8	180	Not in Restricted Band
17234	49.91	V	--	--	Peak	1.69	180	Not in Restricted Band
17234	35.47	V	--	--	Avg	1.69	180	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: 3/11/05

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

Model: WM3A2915ABG — Tested By: Arnold Gaffud

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

Hitachi Antenna

Channel 11 - 802.11 g Mode Gain : 16.5 Peak Power: 23.62 dBm Avg. Power: 14.67 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	44.2	H	74	-29.8	Peak	3.74	180	
4924	28.82	H	54	-25.18	Avg	3.74	180	
7386	41.42	H	74	-32.58	Peak	1.89	180	
7386	27.53	H	54	-26.47	Avg	1.89	180	
9848	43.95	H	--	--	Peak	2.15	180	Not in Restricted Band
9848	30.2	H	--	--	Avg	2.15	180	Not in Restricted Band
12310	46.63	H	74	-27.37	Peak	2.24	225	
12310	31.97	H	54	-22.03	Avg	2.24	225	
14772	48.64	H	--	--	Peak	1.65	135	Not in Restricted Band
14772	34.7	H	--	--	Avg	1.65	135	Not in Restricted Band
17234	49.21	H	--	--	Peak	1.51	180	Not in Restricted Band
17234	35.56	H	--	--	Avg	1.51	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: 3/10/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Hitachi Antenna

Channel 149 - 802.11 a Mode Gain : 14.5 Peak Power: 20.94 dBm Avg. Power: 15.34 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11490	51.64	V	74	-22.36	Peak	2.72	225	
11490	37.99	V	54	-16.01	Avg	2.72	225	
17235	37.4	V	--	--	Peak	2.13	270	Not in Restricted Band
17235	24.17	V	--	--	Avg	2.13	270	Not in Restricted Band
22980		V	74	-74	Peak			No Emissions
22980		V	54	-54	Avg			Detected
28725		V	--	--	Peak			No Emissions
28725		V	--	--	Avg			Detected
34470		V	--	--	Peak			No Emissions
34470		V	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 3/10/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Hitachi Antenna

Channel 149 - 802.11 a Mode Gain : 14.5 Peak Power: 20.94 dBm Avg. Power: 15.34 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11490	52.23	H	74	-21.77	Peak	1.77	315	
11490	38.7	H	54	-15.3	Avg	1.77	315	
17235	42.21	H	--	--	Peak	2.36	225	Not in Restricted Band
17235	29.31	H	--	--	Avg	2.36	225	Not in Restricted Band
22980		H	74	-74	Peak			No Emissions
22980		H	54	-54	Avg			Detected
28725		H	--	--	Peak			No Emissions
28725		H	--	--	Avg			Detected
34470		H	--	--	Peak			No Emissions
34470		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 3/10/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Hitachi Antenna

Channel 157 - 802.11 a Mode Gain : 14.5 Peak Power: 20.91 dBm Avg. Power: 22.30 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11570	49.86	V	74	-24.14	Peak	2.14	270	
11570	35	V	54	-19	Avg	2.14	270	
17355	38.44	V	--	--	Peak	1.37	225	Not in Restricted Band
17355	26.32	V	--	--	Avg	1.37	225	Not in Restricted Band
23140		V	74	-74	Peak			No Emissions
23140		V	54	-54	Avg			Detected
28912.5		V	--	--	Peak			No Emissions
28912.5		V	--	--	Avg			Detected
34710		V	--	--	Peak			No Emissions
34710		V	--	--	Avg			Detected

FCC 15.247
Intel Corporation Date: 3/10/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Hitachi Antenna
Channel 157 - 802.11 a Mode Gain : 14.5 Peak Power: 20.91 dBm Avg. Power: 22.30 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11570	48.85	H	74	-25.15	Peak	2.21	225	
11570	35.77	H	54	-18.23	Avg	2.21	225	
17355	43.64	H	--	--	Peak	1.57	225	Not in Restricted Band
17355	31.26	H	--	--	Avg	1.57	225	Not in Restricted Band
23140		H	74	-74	Peak			No Emissions
23140		H	54	-54	Avg			Detected
28912.5		H	--	--	Peak			No Emissions
28912.5		H	--	--	Avg			Detected
34710		H	--	--	Peak			No Emissions
34710		H	--	--	Avg			Detected

FCC 15.247
Intel Corporation Date: 3/10/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Hitachi Antenna
Channel 165 - 802.11 a Mode Gain : 15.0 Peak Power: 21.11 dBm Avg. Power: 22.40 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11650	51.32	V	74	-22.68	Peak	1.99	180	
11650	37.09	V	54	-16.91	Avg	1.99	180	
17475		V	--	--	Peak			Not in Restricted Band
17475		V	--	--	Avg			Not in Restricted Band
23300		V	--	--	Peak			No Emissions
23300		V	--	--	Avg			Detected
29125		V	--	--	Peak			No Emissions
29125		V	--	--	Avg			Detected
34950		V	--	--	Peak			No Emissions
34950		V	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 3/10/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Hitachi Antenna

Channel 165 - 802.11 a Mode Gain : 15.0 Peak Power: 21.11 dBm Avg. Power: 22.40 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
11650	50.78	H	74	-23.22	Peak	1.44	180	
11650	35.04	H	54	-18.96	Avg	1.44	180	
17475	45.5	H	--	--	Peak	2.43	225	Not in Restricted Band
17475	32.61	H	--	--	Avg	2.43	225	Not in Restricted Band
23300		H	--	--	Peak			No Emissions
23300		H	--	--	Avg			Detected
29125		H	--	--	Peak			No Emissions
29125		H	--	--	Avg			Detected
34950		H	--	--	Peak			No Emissions
34950		H	--	--	Avg			Detected

FCC 15.247

Intel Corporation — Date: 3/10/05

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

Model: WM3A2915ABG — 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 : 15.0 Peak Power: 17.72 dBm Avg. Power: 15.74 dBm

Channel 6 - 802.11 b Mode Gain : 16.0 Peak Power: 18.96 dBm Avg. Power: 17.01 dBm

Channel 11 - 802.11 b Mode Gain : 16.5 Peak Power: 19.32 dBm Avg. Power: 17.36 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2312	47.32	V	74	-26.68	Peak	2.44	225	103 MHz Below the Fundamental
2312	43.31	V	54	-10.69	Avg	2.44	225	of Channel 1
2512	46.45	V	74	-27.55	Peak	2.39	270	103 MHz Above the Fundamental
2512	40.66	V	54	-13.34	Avg	2.39	270	of Channel 1
2312	49.22	H	74	-24.78	Peak	2.35	315	103 MHz Below the Fundamental
2312	46.48	H	54	-7.52	Avg	2.35	315	of Channel 1
2512	51.03	H	74	-22.97	Peak	2.14	315	103 MHz Above the Fundamental
2512	46.93	H	54	-7.07	Avg	2.14	315	of Channel 1
2336	48.62	V	74	-25.38	Peak	1.79	225	103 MHz Below the Fundamental
2336	44.55	V	54	-9.45	Avg	1.79	225	of Channel 6
2538.7	47.53	V	74	-26.47	Peak	1.85	135	103 MHz Above the Fundamental
2538.7	42.14	V	54	-11.86	Avg	1.85	135	of Channel 6
2336	50.18	H	74	-23.82	Peak	2.39	180	103 MHz Below the Fundamental
2336	46.32	H	54	-7.68	Avg	2.39	180	of Channel 6
2538.7	50.57	H	74	-23.43	Peak	2.21	315	103 MHz Above the Fundamental
2538.7	46.03	H	54	-7.97	Avg	2.21	315	of Channel 6
2360	47.13	V	74	-26.87	Peak	2.74	135	103 MHz Below the Fundamental
2360	41.46	V	54	-12.54	Avg	2.74	135	of Channel 11
2565	44.47	V	74	-29.53	Peak	1.86	135	103 MHz Above the Fundamental
2565	37.83	V	54	-16.17	Avg	1.86	135	of Channel 11
2360	49.22	H	74	-24.78	Peak	2.3	315	103 MHz Below the Fundamental
2360	43.5	H	54	-10.5	Avg	2.3	315	of Channel 11
2564	47.93	H	74	-26.07	Peak	2.1	315	103 MHz Above the Fundamental
2564	39.38	H	54	-14.62	Peak	2.1	315	of Channel 11

FCC 15.247

Intel Corporation — Date: 3/10/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

Hitachi Antenna

Channel 1 - 802.11 g Mode Gain : 16.5 Peak Power: 24.07 dBm Avg. Power: 15.57 dBm

Channel 6 - 802.11 g Mode Gain : 16.5 Peak Power: 23.84 dBm Avg. Power: 15.17 dBm

Channel 11 - 802.11 g Mode Gain : 16.5 Peak Power: 23.62 dBm Avg. Power: 14.67 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2312	52.6	V	74	-21.4	Peak	2.54	225	103 MHz Below the Fundamental
2312	50.12	V	54	-3.88	Avg	2.54	225	of Channel 1
2512	52.75	V	74	-21.25	Peak	1.58	270	103 MHz Above the Fundamental
2512	48.99	V	54	-5.01	Avg	1.58	270	of Channel 1
2312	55.13	H	74	-18.87	Peak	2.4	315	103 MHz Below the Fundamental
2312	52.57	H	54	-1.43	Avg	2.4	315	of Channel 1
2512	56.84	H	74	-17.16	Peak	2.18	3155	103 MHz Above the Fundamental
2512	53.29	H	54	-0.71	Avg	2.18	315	of Channel 1
2336	48.13	V	74	-25.87	Peak	1.57	270	103 MHz Below the Fundamental
2336	43.99	V	54	-10.01	Avg	1.57	270	of Channel 6
2538.7	48.1	V	74	-25.9	Peak	1.57	270	103 MHz Above the Fundamental
2538.7	42.68	V	54	-11.32	Avg	1.57	270	of Channel 6
2336	51.42	H	74	-22.58	Peak	2.34	315	103 MHz Below the Fundamental
2336	47.87	H	54	-6.13	Avg	2.34	315	of Channel 6
2538.7	50.57	H	74	-23.43	Peak	2.19	315	103 MHz Above the Fundamental
2538.7	46.93	H	54	-7.07	Avg	2.19	315	of Channel 6
2360	51.49	V	74	-22.51	Peak	1.79	135	103 MHz Below the Fundamental
2360	47.39	V	54	-6.61	Avg	1.79	135	of Channel 11
2565	50.75	V	74	-23.25	Peak	1.79	225	103 MHz Above the Fundamental
2565	44.36	V	54	-9.64	Avg	1.79	225	of Channel 11
2360	51.1	H	74	-22.9	Peak	1.91	225	103 MHz Below the Fundamental
2360	46.43	H	54	-7.57	Avg	1.91	225	of Channel 11
2564	55.2	H	74	-18.8	Peak	2.17	45	103 MHz Above the Fundamental
2564	48.2	H	54	-5.8	Peak	2.17	45	of Channel 11

FCC 15.247

Intel Corporation — Date: 3/11/05

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

Model: WM3A2915ABG — Tested By: Arnold Gaffud

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

With Hitachi Antenna

Channel 1 - 802.11 b Mode Gain : 15.0 Peak Power: 17.72 dBm Avg. Power: 15.74 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3216	35.73	V	74	-38.27	Peak	1.62	90	Fundamental of LO for
3216	26.18	V	54	-27.82	Avg	1.62	90	Channel 1
6432	47.17	V	--	--	Peak	1.76	270	2nd Harmonic of LO for
6432	44.75	V	--	--	Avg	1.76	270	Channel 1
9648	48.43	V	--	--	Peak	2.49	315	3rd Harmonic of LO =
9648	39.58	V	--	--	Avg	2.49	315	4th Harmonic of Tx for Channel 1
12864	45.5	V	--	--	Peak	1.55	315	4th Harmonic of LO for
12864	31.11	V	--	--	Avg	1.55	315	Channel 1
3216	40.48	H	74	-33.52	Peak	2.01	180	Fundamental of LO for
3216	23.41	H	54	-30.59	Avg	2.01	180	Channel 1
6432	42.98	H	--	--	Peak	1.99	270	2nd Harmonic of LO for
6432	34.89	H	--	--	Avg	1.99	270	Channel 1
9648	49.94	H	--	--	Peak	2.35	315	3rd Harmonic of LO =
9648	42.02	H	--	--	Avg	2.35	315	4th Harmonic of Tx for Channel 1
12864	45.9	H	--	--	Peak	2.12	135	4th Harmonic of LO for
12864	31.16	H	--	--	Avg	2.12	135	Channel 1
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation — Date: 3/11/05

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

Model: WM3A2915ABG — Tested By: Arnold Gaffud

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

With Hitachi Antenna

Channel 6 - 802.11 b Mode Gain : 16.0 Peak Power: 18.96 dBm Avg. Power: 17.01 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	36.48	V	74	-37.52	Peak	1.32	315	Fundamental of LO for
3249.33	24.08	V	54	-29.92	Avg	1.32	315	Channel 6
6498.67	46.91	V	--	--	Peak	2.57	225	2nd Harmonic of LO for
6498.67	43.27	V	--	--	Avg	2.57	225	Channel 6
9748	47.67	V	--	--	Peak	2.58	270	3rd Harmonic of LO =
9748	39.74	V	--	--	Avg	2.58	270	4th Harmonic of Tx for Channel 6
12997.3	45.28	V	--	--	Peak	1.64	135	4th Harmonic of LO for
12997.3	30.61	V	--	--	Avg	1.64	135	Channel 6
3249.33	38.39	H	74	-35.61	Peak	2	315	Fundamental of LO for
3249.33	21.84	H	54	-32.16	Avg	2	315	Channel 6
6498.67	43.83	H	--	--	Peak	1.99	270	2nd Harmonic of LO for
6498.67	39.34	H	--	--	Avg	1.99	270	Channel 6
9748	49.99	H	--	--	Peak	2.73	135	3rd Harmonic of LO =
9748	44.39	H	--	--	Avg	2.73	135	4th Harmonic of Tx for Channel 6
12997.3	45.35	H	--	--	Peak	1.81	225	4th Harmonic of LO for
12997.3	30.58	H	--	--	Avg	1.81	225	of Channel 6
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation — Date: 3/11/05

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

Model: WM3A2915ABG — Tested By: Arnold Gaffud

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

With Hitachi Antenna

Channel 11 - 802.11 b Mode Gain : 16.5 Peak Power: 19.32 dBm Avg. Power: 17.36 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3282.67	36.88	V	74	-37.12	Peak	2.33	315	Fundamental of LO for
3282.67	25.21	V	54	-28.79	Avg	2.33	315	Channel 11
6565.33	47.11	V	--	--	Peak	1.8	225	2nd Harmonic of LO for
6565.33	44.28	V	--	--	Avg	1.8	225	Channel 11
9848	45.37	V	--	--	Peak	1.84	315	3rd Harmonic of LO =
9848	34.03	V	--	--	Avg	1.84	315	4th Harmonic of Tx for Channel 11
13130.7	44.99	V	--	--	Peak	1.35	270	4th Harmonic of LO for
13130.7	29.91	V	--	--	Avg	1.35	270	of Channel 11
3282.67	35.88	H	74	-38.12	Peak	2.51	45	Fundamental of LO for
3282.67	23.01	H	54	-30.99	Avg	2.51	45	Channel 11
6565.33	43.18	H	--	--	Peak	2.47	45	2nd Harmonic of LO for
6565.33	38.11	H	--	--	Avg	2.47	45	Channel 11
9848	49.96	H	--	--	Peak	2.8	135	3rd Harmonic of LO =
9848	41.79	H	--	--	Avg	2.8	135	4th Harmonic of Tx for Channel 11
13130.7	45	H	--	--	Peak	2.46	315	4th Harmonic of LO for
13130.7	29.86	H	--	--	Avg	2.46	315	of Channel 11
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247
Intel Corporation Date: 3/11/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Arnold Gaffud
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
Hitachi Antenna
Channel 1 - 802.11 g Mode Gain : 16.5 Peak Power: 24.07 dBm Avg. Power: 15.57 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3216	37.54	V	74	-36.46	Peak	1.71	135	Fundamental of LO for
3216	28.14	V	54	-25.86	Avg	1.71	135	Channel 1
6432	46.65	V	--	--	Peak	1.2	225	2nd Harmonic of LO for
6432	42.68	V	--	--	Avg	1.2	225	Channel 1
9648	46.53	V	--	--	Peak	1.87	180	3rd Harmonic of LO =
9648	32.48	V	--	--	Avg	1.87	180	4th Harmonic of Tx for Channel 1
12864	46.11	V	--	--	Peak	1.69	225	4th Harmonic of LO for
12864	32.1	V	--	--	Avg	1.69	225	Channel 1
3216	36.32	H	74	-37.68	Peak	2.77	0	Fundamental of LO for
3216	25.54	H	54	-28.46	Avg	2.77	0	Channel 1
6432	43.86	H	--	--	Peak	1.46	315	2nd Harmonic of LO for
6432	37.96	H	--	--	Avg	1.46	315	Channel 1
9648	46.32	H	--	--	Peak	1.71	270	3rd Harmonic of LO =
9648	32.31	H	--	--	Avg	1.71	270	4th Harmonic of Tx for Channel 1
12864	45.83	H	--	--	Peak	1.91	180	4th Harmonic of LO for
12864	32.16	H	--	--	Avg	1.91	180	Channel 1
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247
Intel Corporation Date: 3/11/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Arnold Gaffud
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
Hitachi Antenna
Channel 6 - 802.11 g Mode Gain : 16.5 Peak Power: 23.84 dBm Avg. Power: 15.17 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	36.89	V	74	-37.11	Peak	1.04	225	Fundamental of LO for
3249.33	25.2	V	54	-28.8	Avg	1.04	225	Channel 6
6498.67	47.54	V	--	--	Peak	3.01	225	2nd Harmonic of LO for
6498.67	44.17	V	--	--	Avg	3.01	225	Channel 6
9748	44.38	V	--	--	Peak	2.34	180	3rd Harmonic of LO =
9748	31.13	V	--	--	Avg	2.34	180	4th Harmonic of Tx for Channel 6
12997.3	44.96	V	--	--	Peak	1.98	180	4th Harmonic of LO for
12997.3	31.15	V	--	--	Avg	1.98	180	Channel 6
3249.33	36.38	H	74	-37.62	Peak	3.53	315	Fundamental of LO for
3249.33	24.83	H	54	-29.17	Avg	3.53	315	Channel 6
6498.67	44.56	H	--	--	Peak	1.76	315	2nd Harmonic of LO for
6498.67	40.54	H	--	--	Avg	1.76	315	Channel 6
9748	44.6	H	--	--	Peak	2.28	180	3rd Harmonic of LO =
9748	31.14	H	--	--	Avg	2.28	180	4th Harmonic of Tx for Channel 6
12997.3	45.68	H	--	--	Peak	2.06	315	4th Harmonic of LO for
12997.3	31.07	H	--	--	Avg	2.06	315	of Channel 6
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247
Intel Corporation Date: 3/11/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Arnold Gaffud
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
Hitachi Antenna
Channel 11 - 802.11 g Mode Gain : 16.5 Peak Power: 23.62 dBm Avg. Power: 14.67 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3282.67	36.74	V	74	-37.26	Peak	1.02	225	Fundamental of LO for
3282.67	26.61	V	54	-27.39	Avg	1.02	225	Channel 11
6565.33	49.3	V	--	--	Peak	2.71	225	2nd Harmonic of LO for
6565.33	46.28	V	--	--	Avg	2.71	225	Channel 11
9848	43.65	V	--	--	Peak	2.08	180	3rd Harmonic of LO =
9848	30.09	V	--	--	Avg	2.08	180	4th Harmonic of Tx for Channel 11
13130.7	43.69	V	--	--	Peak	1.63	225	4th Harmonic of LO for
13130.7	30.04	V	--	--	Avg	1.63	225	of Channel 11
3282.67	36.62	H	74	-37.38	Peak	1.92	180	Fundamental of LO for
3282.67	26.17	H	54	-27.83	Avg	1.92	180	Channel 11
6565.33	44.66	H	--	--	Peak	3.45	225	2nd Harmonic of LO for
6565.33	40.06	H	--	--	Avg	3.45	225	Channel 11
9848	43.95	H	--	--	Peak	2.15	180	3rd Harmonic of LO =
9848	30.2	H	--	--	Avg	2.15	180	4th Harmonic of Tx for Channel 11
13130.7	44.1	H	--	--	Peak	2.09	225	4th Harmonic of LO for
13130.7	30.17	H	--	--	Avg	2.09	225	of Channel 11
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247
Intel Corporation Date: 3/10/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Hitachi Antenna
Channel 149 - 802.11 a Mode Gain : 14.5 Peak Power: 20.94 dBm Avg. Power: 15.34 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7660	45.64	V	74	-28.36	Peak	1.97	180	Fundamental of LO for
7660	38.69	V	54	-15.31	Avg	1.97	180	Channel 149
15320	44.48	V	74	-74	Peak	2.4	225	2nd Harmonic of LO for
15320	33.13	V	54	-54	Avg	2.4	225	Channel 149
22980		V	74	-74	Peak			3rd Harmonic of LO for
22980		V	54	-54	Avg			No Emissions Detected
30640		V	--	--	Peak			4th Harmonic of LO for
30640		V	--	--	Avg			No Emissions Detected
7660	44.82	H	74	-29.18	Peak	2.38	45	Fundamental of LO for
7660	38.95	H	54	-15.05	Avg	2.38	45	Channel 149
15320	44.54	H	74	-74	Peak	2.38	225	2nd Harmonic of LO for
15320	32.02	H	54	-54	Avg	2.38	225	Channel 149
22980		H	74	-74	Peak			3rd Harmonic of LO for
22980		H	54	-54	Avg			No Emissions Detected
30640		H	--	--	Peak			4th Harmonic of LO for
30640		H	--	--	Avg			No Emissions Detected

FCC 15.247
Intel Corporation Date: 3/10/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Hitachi Antenna
Channel 157 - 802.11 a Mode Gain : 14.5 Peak Power: 20.91 dBm Avg. Power: 22.30 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7713.33	46.25	V	74	-27.75	Peak	1.37	225	Fundamental of LO for
7713.33	41.82	V	54	-12.18	Avg	1.37	225	Channel 157
15426.7	44.09	V	74	-29.91	Peak	1.37	225	2nd Harmonic of LO for
15426.7	31.72	V	54	-22.28	Avg	1.37	225	Channel 157
23140		V	74	-74	Peak			3rd Harmonic of LO for
23140		V	54	-54	Avg			No Emissions Detected
30853.3		V	--	--	Peak			4th Harmonic of LO for
30853.3		V	--	--	Avg			No Emissions Detected
7713.33	44.14	H	74	-29.86	Peak	1.08	45	Fundamental of LO for
7713.33	37.31	H	54	-16.69	Avg	1.08	45	Channel 157
15426.7	43.25	H	74	-30.75	Peak	1.86	180	2nd Harmonic of LO for
15426.7	30.96	H	54	-23.04	Avg	1.86	180	Channel 157
23140		H	74	-74	Peak			3rd Harmonic of LO for
23140		H	54	-54	Avg			No Emissions Detected
30853.3		H	--	--	Peak			4th Harmonic of LO for
30853.3		H	--	--	Avg			No Emissions Detected

FCC 15.247
Intel Corporation Date: 3/10/05
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Hitachi Antenna
Channel 165 - 802.11 a Mode Gain : 15.0 Peak Power: 21.11 dBm Avg. Power: 22.40 dBm
Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7766.67	46.69	V	74	-27.31	Peak	2.27	225	Fundamental of LO for
7766.67	42.49	V	54	-11.51	Avg	2.27	225	Channel 165
15533.3	43	V	74	-31	Peak	1.61	135	2nd Harmonic of LO for
15533.3	30.89	V	54	-23.11	Avg	1.61	135	Channel 165
23300		V	--	--	Peak			3rd Harmonic of LO for
23300		V	--	--	Avg			No Emissions Detected
31066.7		V	--	--	Peak			4th Harmonic of LO for
31066.7		V	--	--	Avg			No Emissions Detected
7766.67	44.08	H	74	-29.92	Peak	1.76	315	Fundamental of LO for
7766.67	37.74	H	54	-16.26	Avg	1.76	315	Channel 165
15533.3	43.63	H	74	-30.37	Peak	1.76	45	2nd Harmonic of LO for
15533.3	30.31	H	54	-23.69	Avg	1.76	45	Channel 165
23300		H	--	--	Peak			3rd Harmonic of LO for
23300		H	--	--	Avg			No Emissions Detected
31066.7		H	--	--	Peak			4th Harmonic of LO for
31066.7		H	--	--	Avg			No Emissions Detected

RSS-210
Intel Corporation
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter
Model: WM3A2915ABG
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Hitachi Antenna
Channel 6 - 802.11 b Mode
Receive Mode

Date: 3/11/05
Lab: B
Tested By: Arnold Gaffud

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	36.51	V	80	-43.49	Peak	1.48	225	Fundamental of LO for
3249.33	21.54	V	60	-38.46	Avg	1.48	225	Channel 6
6498.67	43.42	V	80	-36.58	Peak	1.52	45	2nd Harmonic of LO for
6498.67	39.05	V	60	-20.95	Avg	1.52	45	Channel 6
9748	45.72	V	80	-34.28	Peak	1.94	315	3rd Harmonic of LO for
9748	30.87	V	60	-29.13	Avg	1.94	315	Channel 6
3249.33	37.61	H	80	-42.39	Peak	1.93	315	Fundamental of LO for
3249.33	20.95	H	60	-39.05	Avg	1.93	315	Channel 6
6498.67	41.64	H	80	-38.36	Peak	2.26	45	2nd Harmonic of LO for
6498.67	34.73	H	60	-25.27	Avg	2.26	45	Channel 6
9748	45.92	H	80	-34.08	Peak	1.63	315	3rd Harmonic of LO for
9748	30.87	H	60	-29.13	Avg	1.63	315	Channel 6

RSS-210
Intel Corporation
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter
Model: WM3A2915ABG
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
Hitachi Antenna
Channel 6 - 802.11 g Mode
Receive Mode

Date: 3/11/05
Lab: B
Tested By: Arnold Gaffud

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	35.91	V	80	-44.09	Peak	1.98	225	Fundamental of LO for
3249.33	22.97	V	60	-37.03	Avg	1.98	225	Channel 6
6498.67	47.24	V	80	-32.76	Peak	1.03	225	2nd Harmonic of LO for
6498.67	44.13	V	60	-15.87	Avg	1.03	225	Channel 6
9748	45.27	V	80	-34.73	Peak	2.24	225	3rd Harmonic of LO for
9748	32.38	V	60	-27.62	Avg	2.24	225	Channel 6
3249.33	34.82	H	80	-45.18	Peak	2.93	180	Fundamental of LO for
3249.33	22.27	H	60	-37.73	Avg	2.93	180	Channel 6
6498.67	43.33	H	80	-36.67	Peak	3.09	225	2nd Harmonic of LO for
6498.67	35.18	H	60	-24.82	Avg	3.09	225	Channel 6
9748	44.65	H	80	-35.35	Peak	1.52	135	3rd Harmonic of LO for
9748	31.27	H	60	-28.73	Avg	1.52	135	Channel 6

RSS-210
Intel Corporation
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter
Model: WM3A2915ABG
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port
With Hitachi Antenna
Channel 157 - 802.11 a Mode
Receive Mode

Date: 3/10/05
Lab: B
Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7713.33	39.95	V	80	-40.05	Peak	2.07	225	Fundamental of LO for
7713.33	27.32	V	60	-32.68	Avg	2.07	225	Channel 157
15426.7	43.37	V	80	-36.63	Peak	1.55	225	2nd Harmonic of LO for
15426.7	31.14	V	60	-28.86	Avg	1.55	225	Channel 157
23140		V	80	-80	Peak			3rd Harmonic of LO for
23140		V	60	-60	Avg			No Emissions Detected
7713.33	40.36	H	80	-39.64	Peak	2.37	135	Fundamental of LO for
7713.33	25.66	H	60	-34.34	Avg	2.37	135	Channel 157
15426.7	43.47	H	80	-36.53	Peak	2.13	135	2nd Harmonic of LO for
15426.7	30.94	H	60	-29.06	Avg	2.13	135	Channel 157
23140		H	80	-80	Peak			3rd Harmonic of LO for
23140		H	60	-60	Avg			No Emissions Detected

COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics Page : 1/1
Customer : Intel Date : 3/11/2005
Manufacturer : Intel Time : 22:13:05
Eut name : Intel Mini PCI Type 3A 802.11abg Wi Lab : A
Model : WM3A2915ABG 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
1H	136.680	50.40	2.84	11.73	32.30	32.67	43.50	-10.83
2H	139.394	51.00	2.90	11.97	32.28	33.59	43.50	-9.91
3V	140.099	49.70	2.91	12.02	32.27	32.35	43.50	-11.15
4V	144.371	50.50	3.00	11.88	32.24	33.13	43.50	-10.37
5H	151.838	55.50	3.08	12.05	32.22	38.42	43.50	-5.08
6H	151.839Qp	48.59	3.08	12.05	32.22	31.51	43.50	-11.99
7H	153.702	51.80	3.07	12.40	32.23	35.04	43.50	-8.46
8H	178.830	53.50	2.92	14.60	32.40	38.61	43.50	-4.89
9H	178.830Qp	50.00	2.92	14.60	32.40	35.11	43.50	-8.39
10H	180.408	54.20	2.92	14.68	32.40	39.40	43.50	-4.10
11H	180.410Qp	49.71	2.92	14.68	32.40	34.91	43.50	-8.59
12V	182.335	46.00	2.93	14.70	32.40	31.24	43.50	-12.26
13V	220.763	47.10	3.08	15.72	32.48	33.42	46.00	-12.58
14H	230.795	56.90	3.15	16.06	32.45	43.66	46.00	-2.34
15H	230.795Qp	53.38	3.15	16.06	32.45	40.14	46.00	-5.86
16V	314.724	44.80	3.66	12.60	32.27	28.79	46.00	-17.21
17H	314.733	50.10	3.66	12.60	32.27	34.09	46.00	-11.91
18H	333.801	43.40	3.74	12.97	32.23	27.88	46.00	-18.12
19V	334.791	42.90	3.74	12.99	32.23	27.40	46.00	-18.60
20H	338.194	47.20	3.76	13.05	32.22	31.78	46.00	-14.22
21H	366.109	49.70	3.97	13.55	32.20	35.01	46.00	-10.99
22V	400.058	48.60	4.30	14.10	32.20	34.80	46.00	-11.20
23H	405.570	46.30	4.36	14.17	32.18	32.65	46.00	-13.35
24H	429.613	46.10	4.60	14.45	32.08	33.08	46.00	-12.92
25H	474.395	49.20	5.00	14.94	32.00	37.14	46.00	-8.86

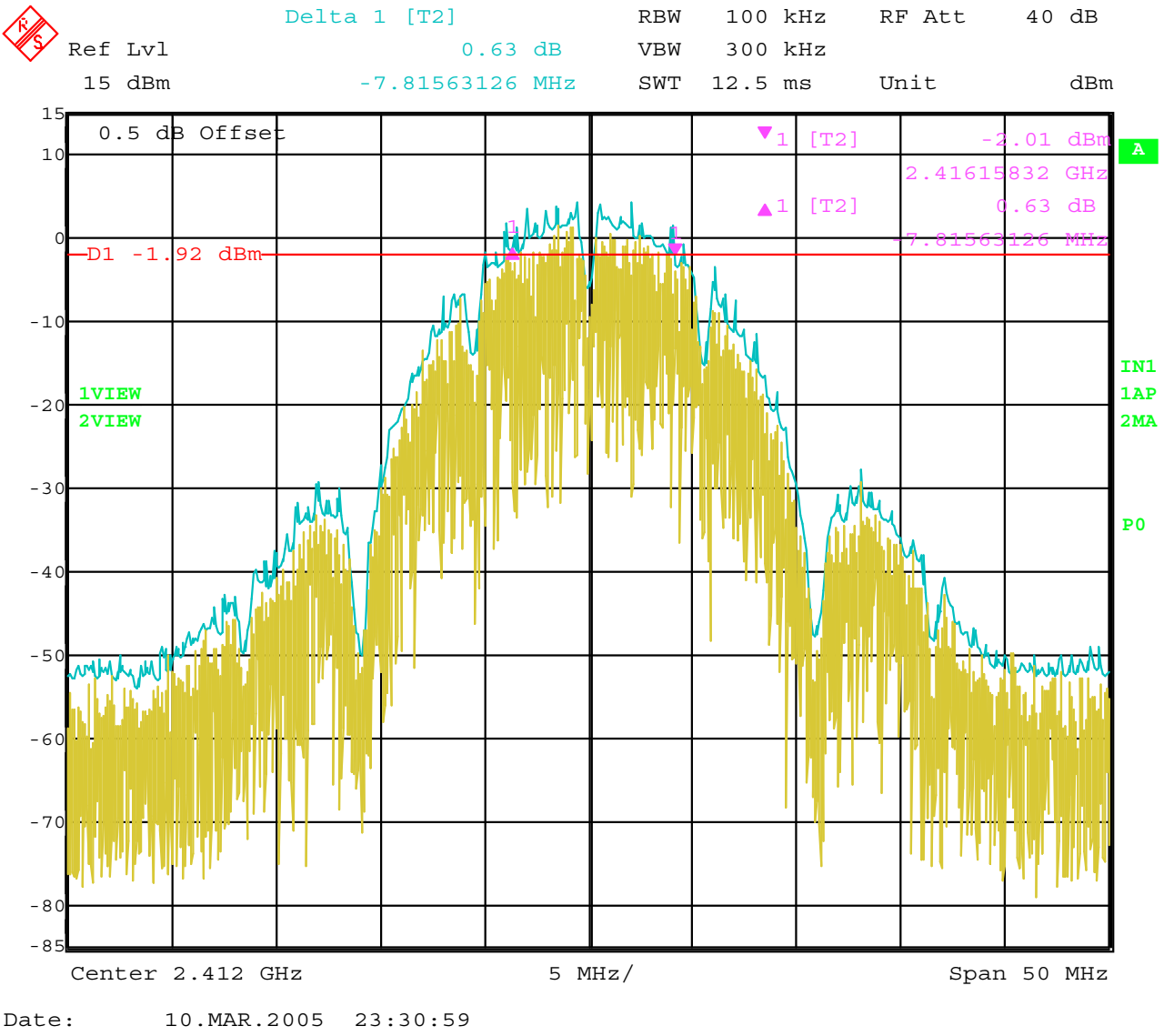
FCC Class B
Intel Corporation Date: 3/10/05
Intel Mini PCI Type 3A 802.11ABG Wireless LAN Adapter Lab: B
Model: WM3A2915ABG Tested By: Kyle Fujimoto
Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

With Hitachi Antenna
Digital Portion - 1 GHz to 40 GHz

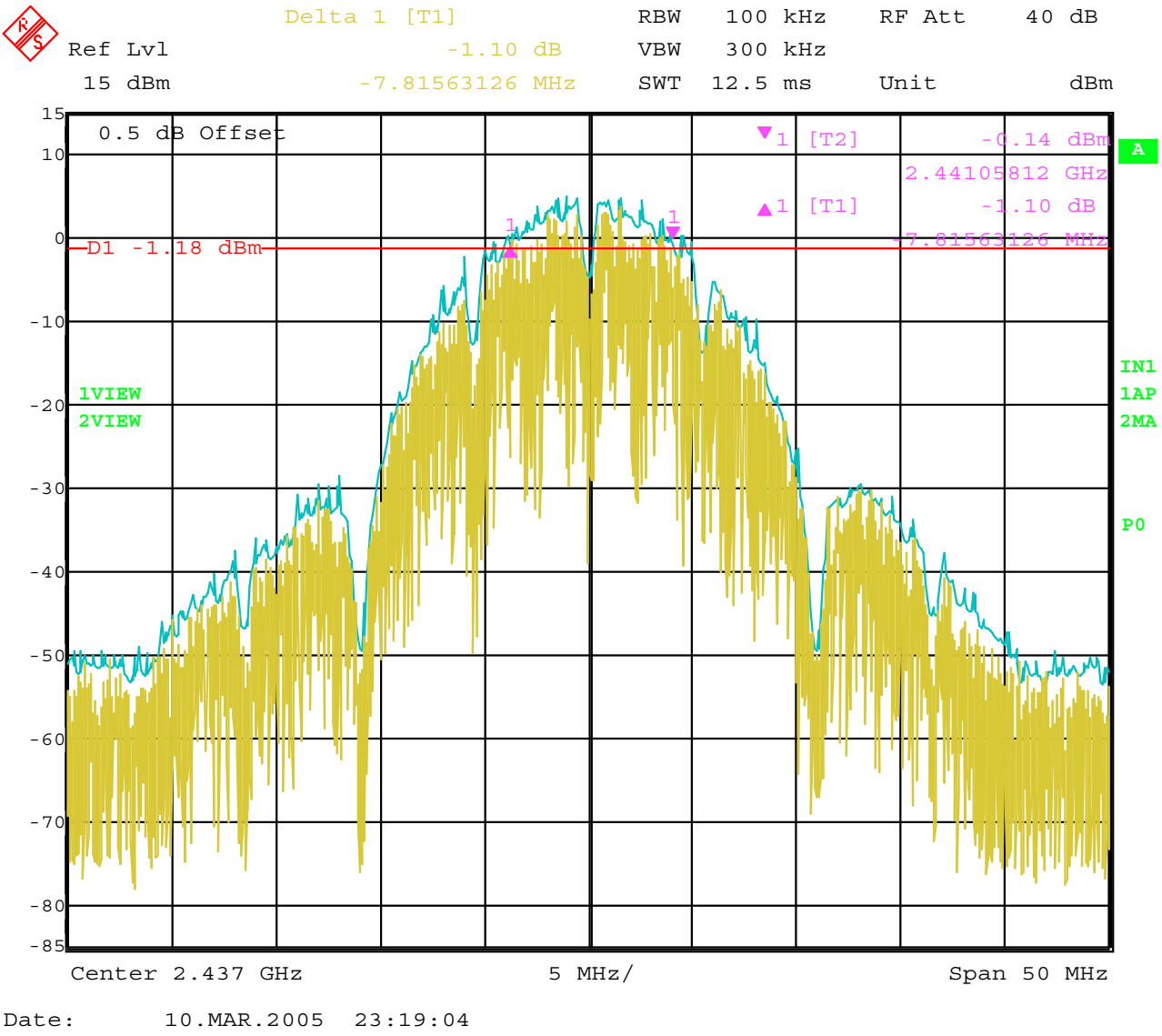
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1150	44.19	V	74	-29.81	Peak	2.59	225	
1150	37.43	V	54	-16.57	Avg	2.59	225	
1555	38.23	V	74	-35.77	Peak	1.52	225	
1555	24.24	V	54	-29.76	Avg	1.52	225	
1829	39.34	V	74	-34.66	Peak	1.99	180	
1829	24.58	V	54	-29.42	Avg	1.99	180	
1150	38.32	H	74	-35.68	Peak	2.37	225	
1150	24.52	H	54	-29.48	Avg	2.37	225	
1555	37.77	H	74	-36.23	Peak	2.48	135	
1555	23.46	H	54	-30.54	Avg	2.48	135	
1829	38.6	H	74	-35.4	Peak	1.98	180	
1829	22.83	H	54	-31.17	Avg	1.98	180	

-6 dB BANDWIDTH

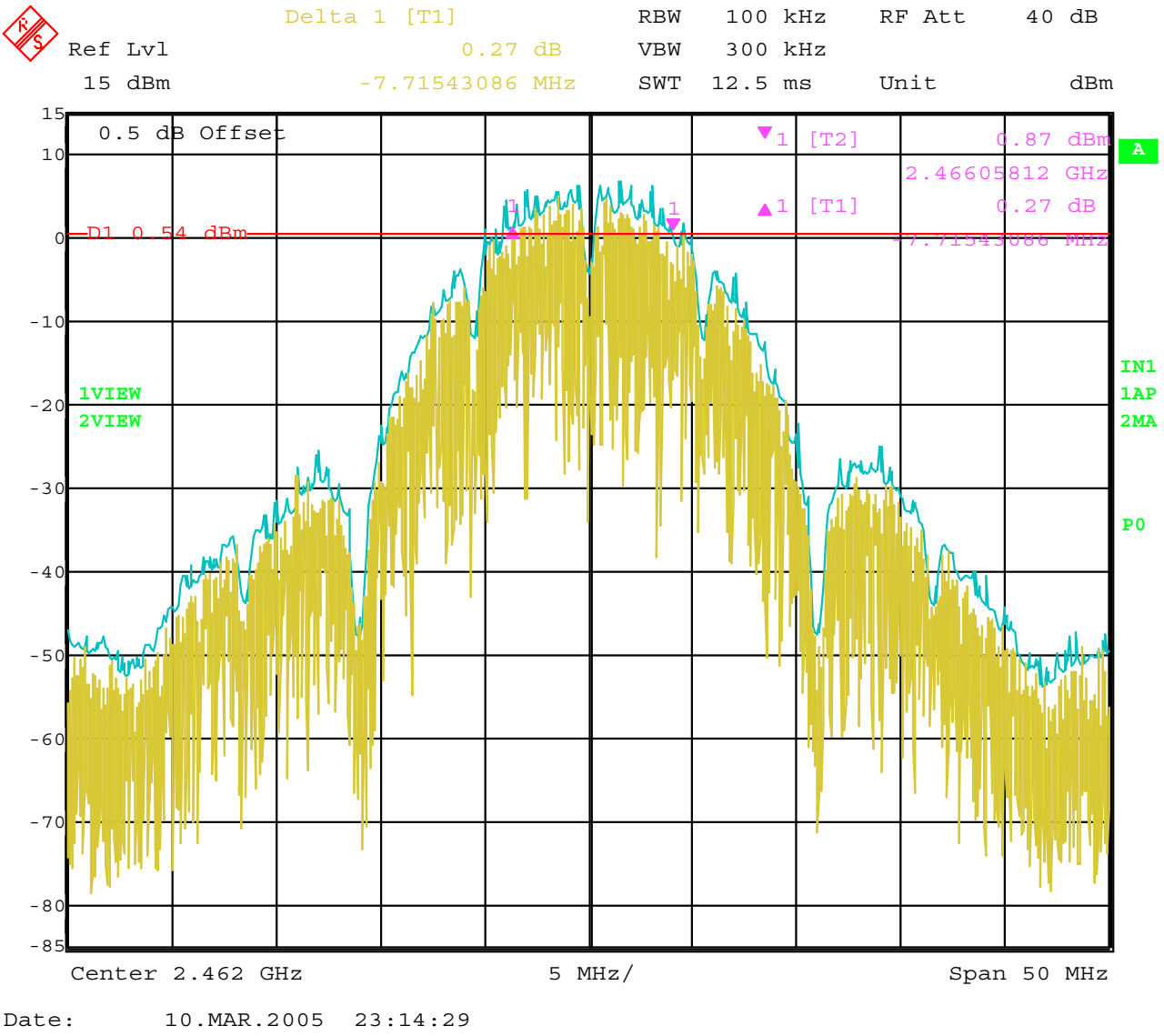
DATA SHEETS



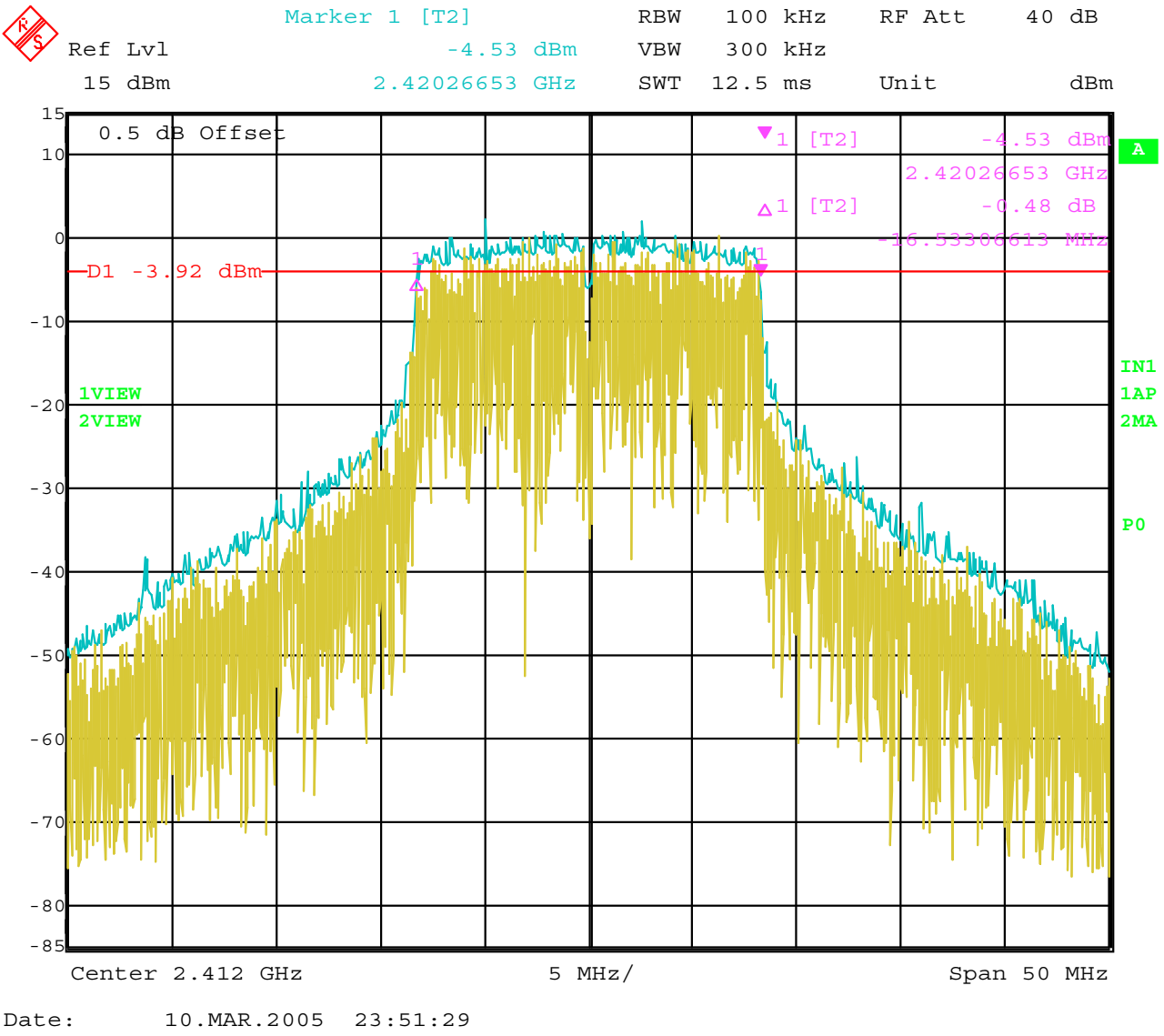
Bandwidth 6 dB – Channel 1 – 802.11 b Mode – Hitachi Antenna



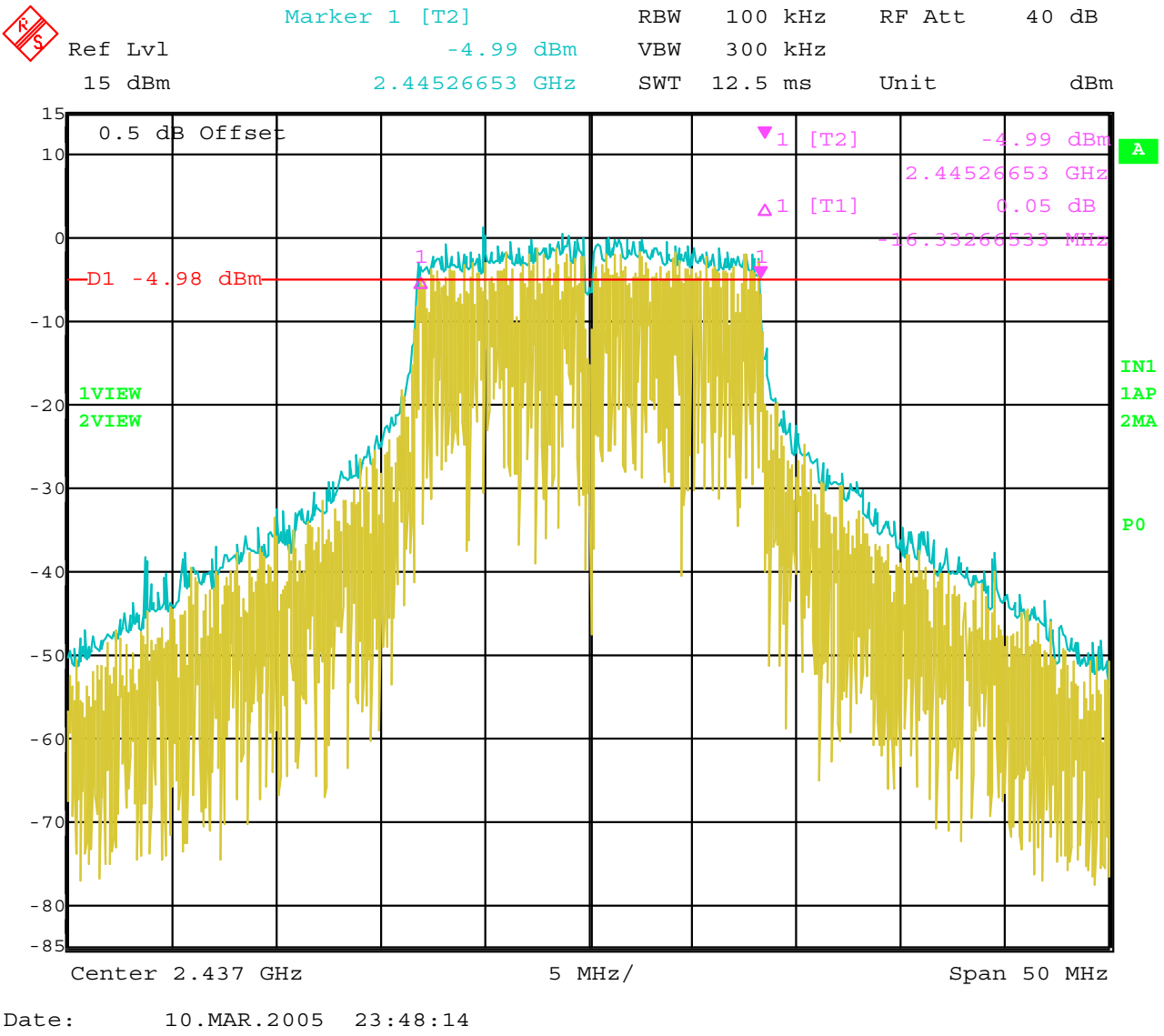
Bandwidth 6 dB – Channel 6 – 802.11 b Mode – Hitachi Antenna



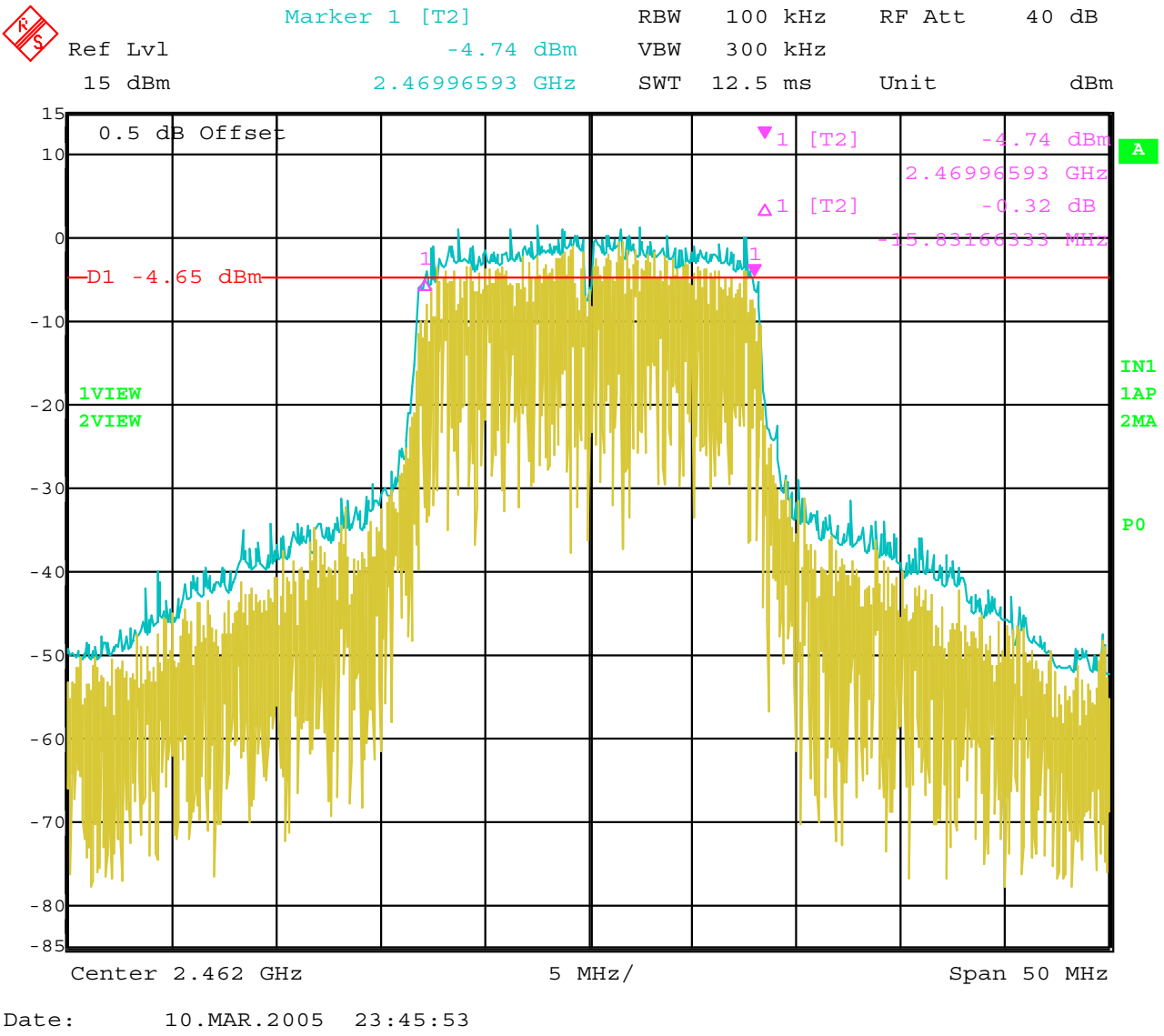
Bandwidth 6 dB – Channel 11 – 802.11 b Mode – Hitachi Antenna



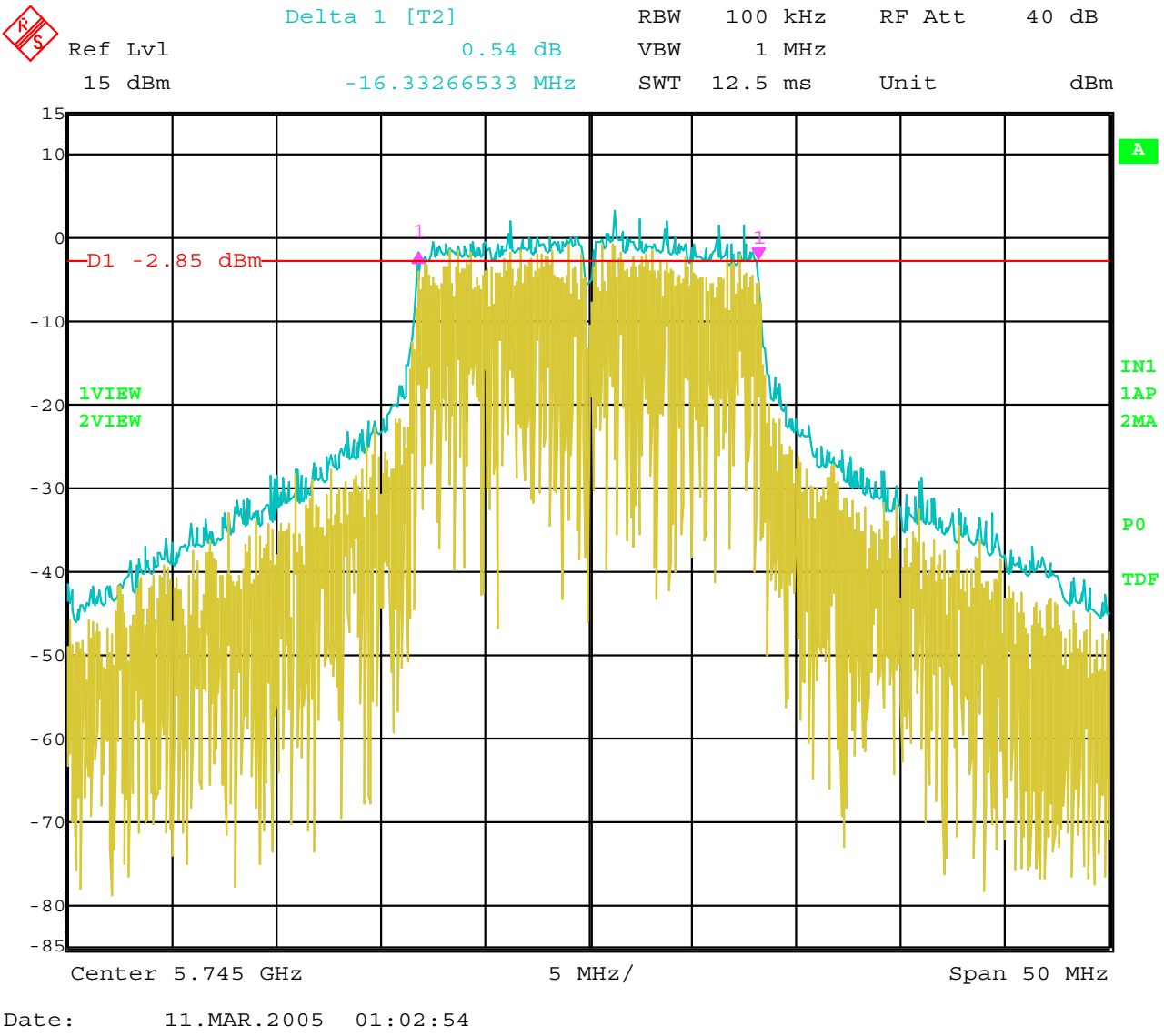
Bandwidth 6 dB – Channel 1 – 802.11 g Mode – Hitachi Antenna



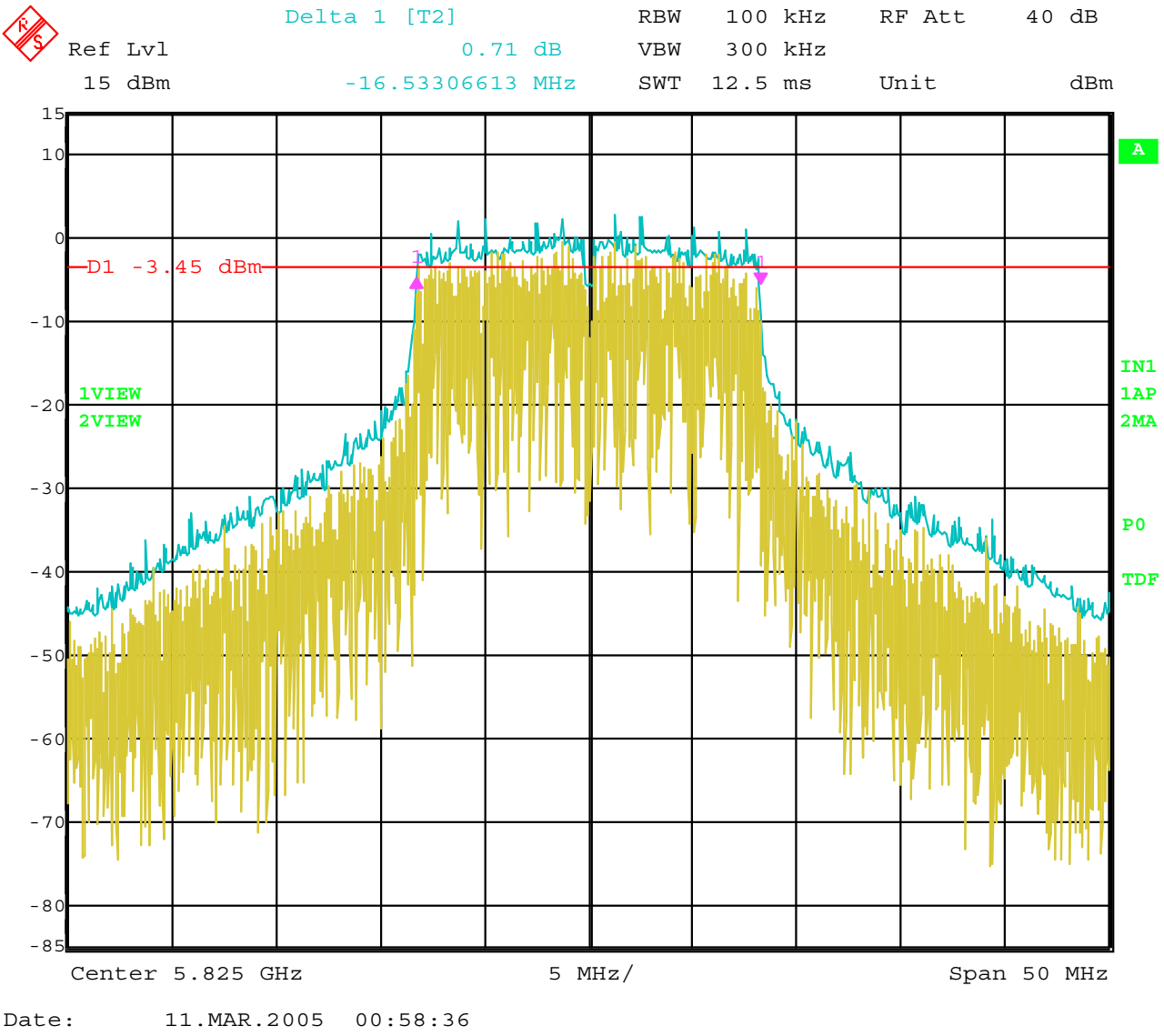
Bandwidth 6 dB – Channel 6 – 802.11 g Mode – Hitachi Antenna



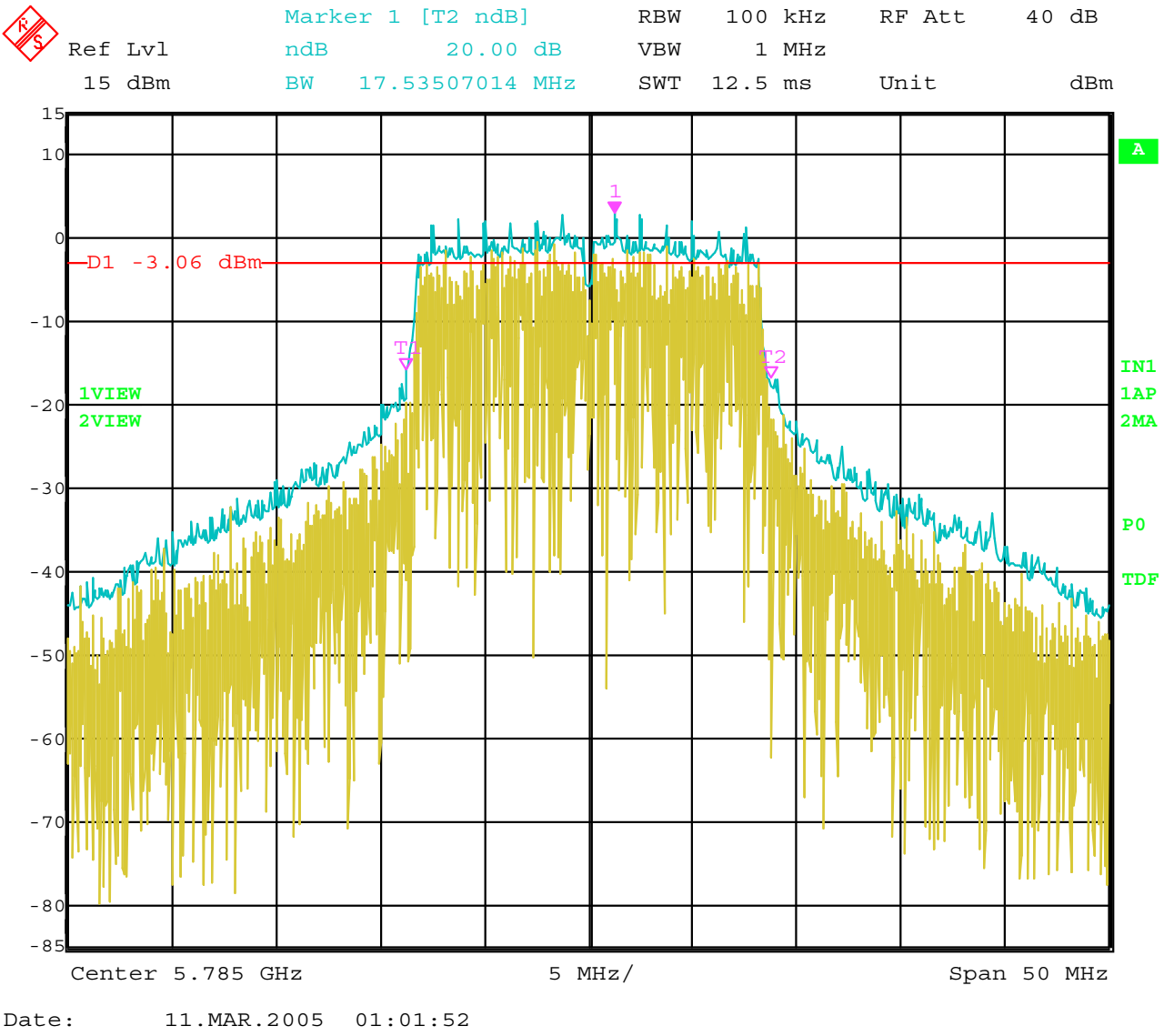
Bandwidth 6 dB – Channel 11 – 802.11 g Mode – Hitachi Antenna



Bandwidth 6 dB – Channel 149 – 802.11 a Mode – Hitachi Antenna



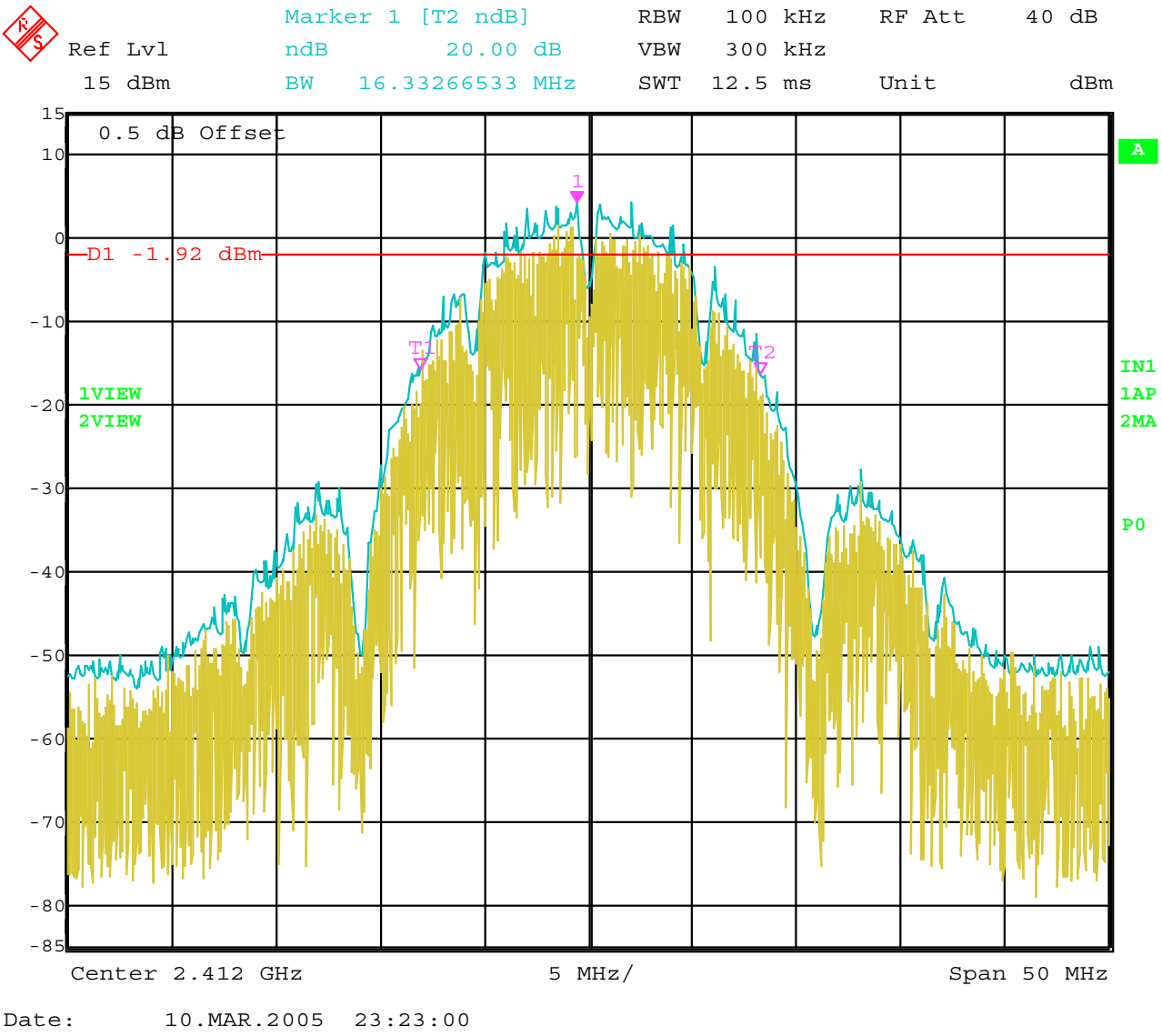
Bandwidth 6 dB – Channel 157 – 802.11 a Mode – Hitachi Antenna



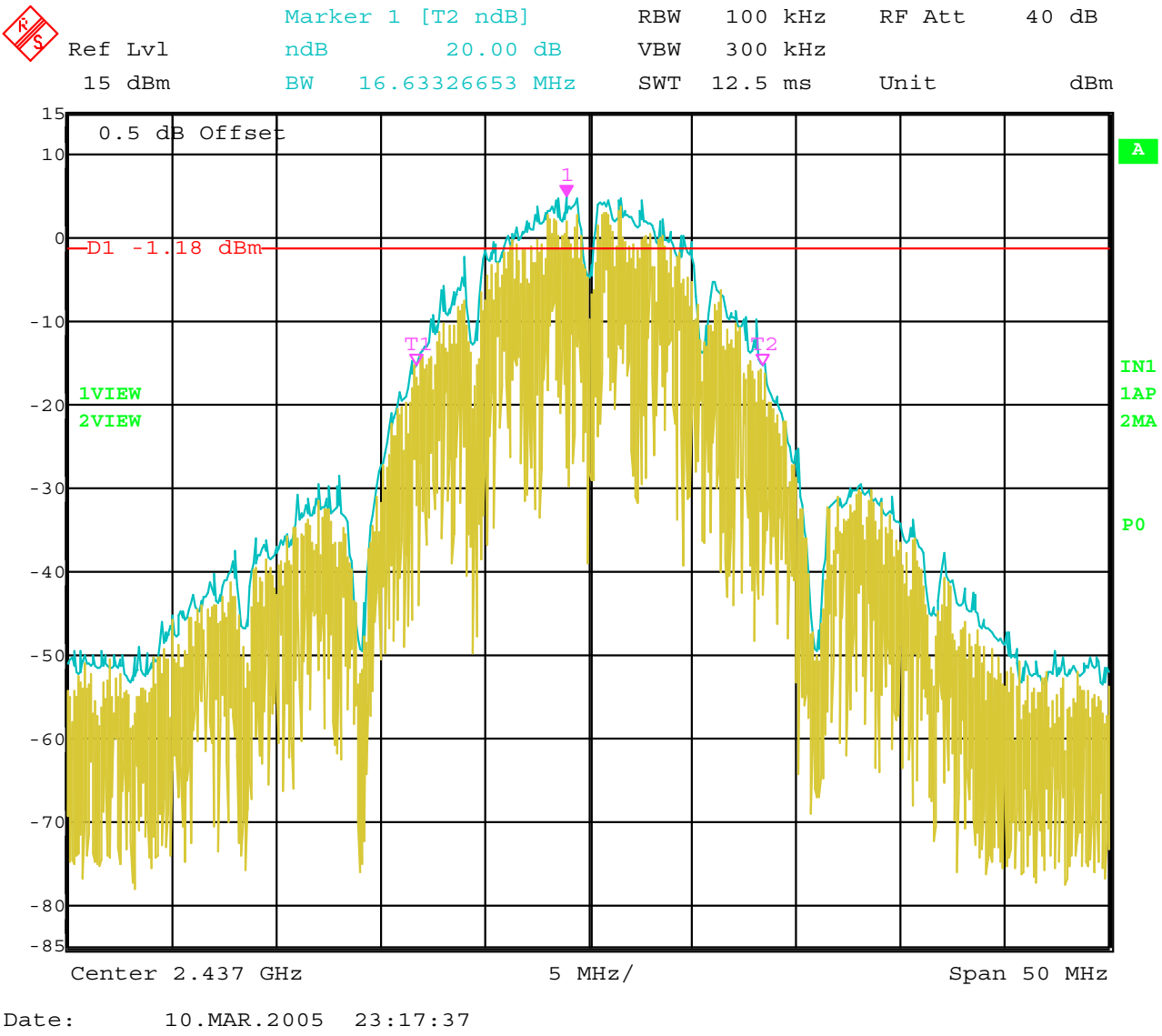
Bandwidth 6 dB – Channel 165 – 802.11 a Mode – Hitachi Antenna

-20 dB BANDWIDTH

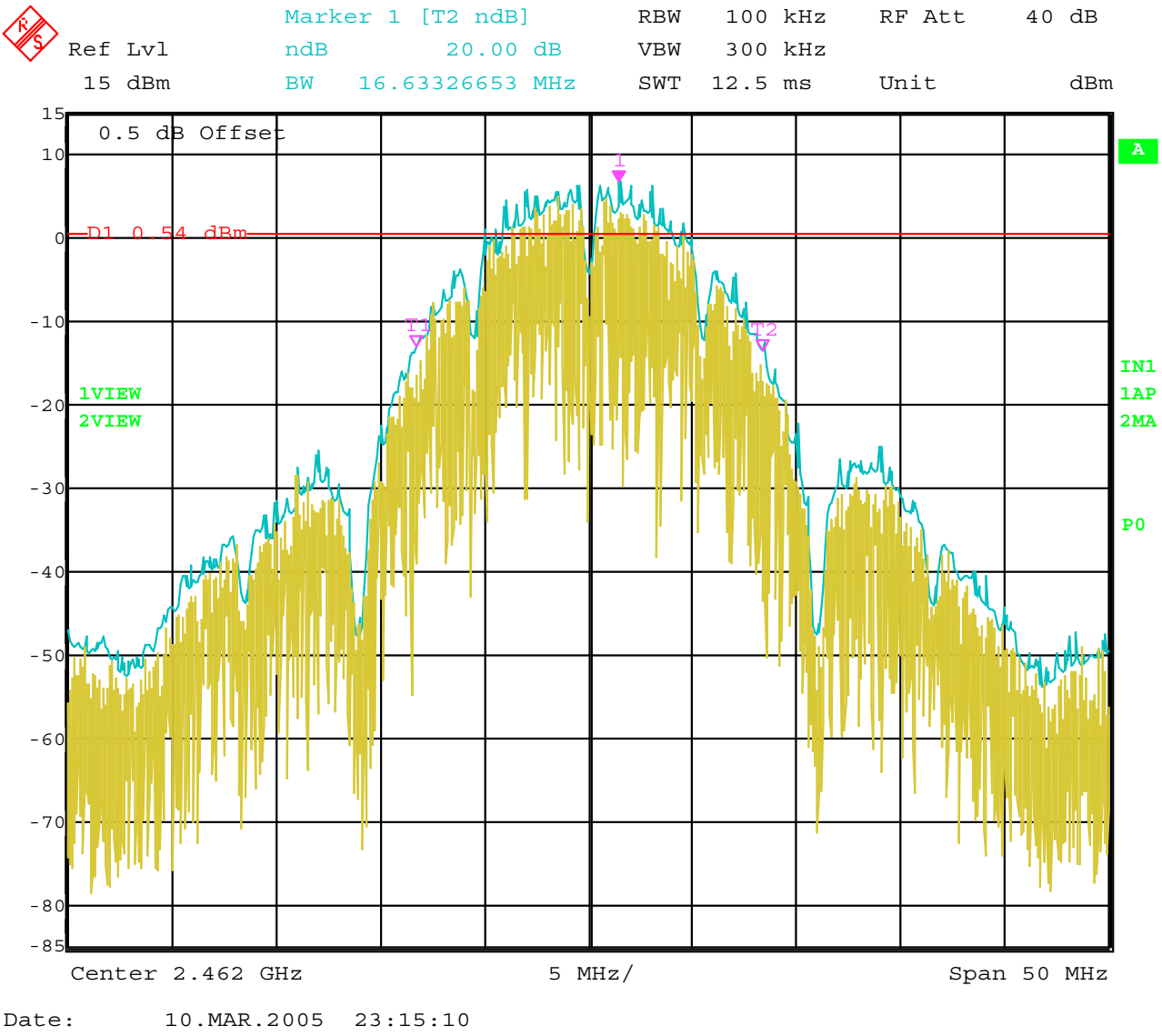
DATA SHEETS



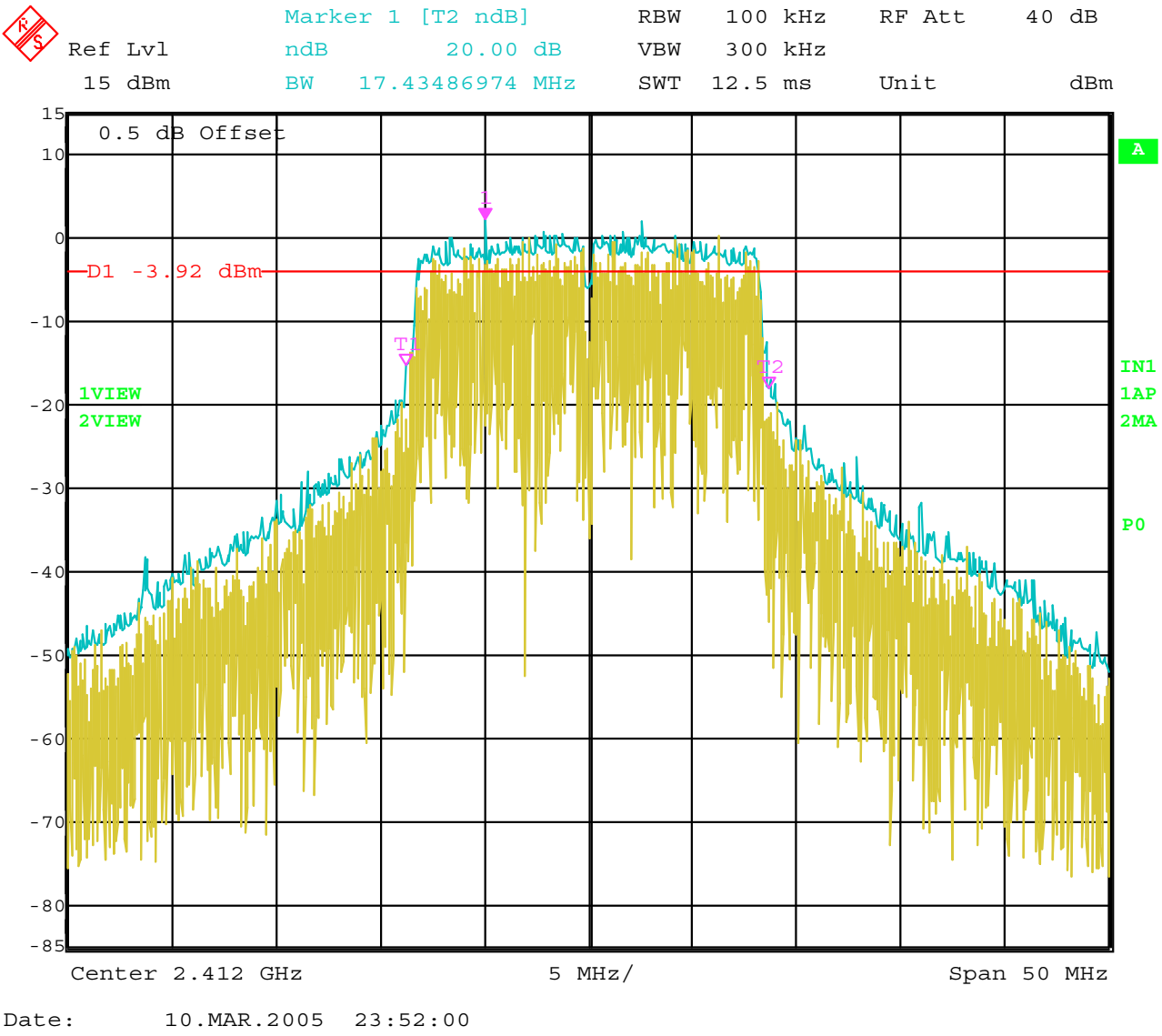
Bandwidth 20 dB – Channel 1 – 802.11 b Mode – Hitachi Antenna



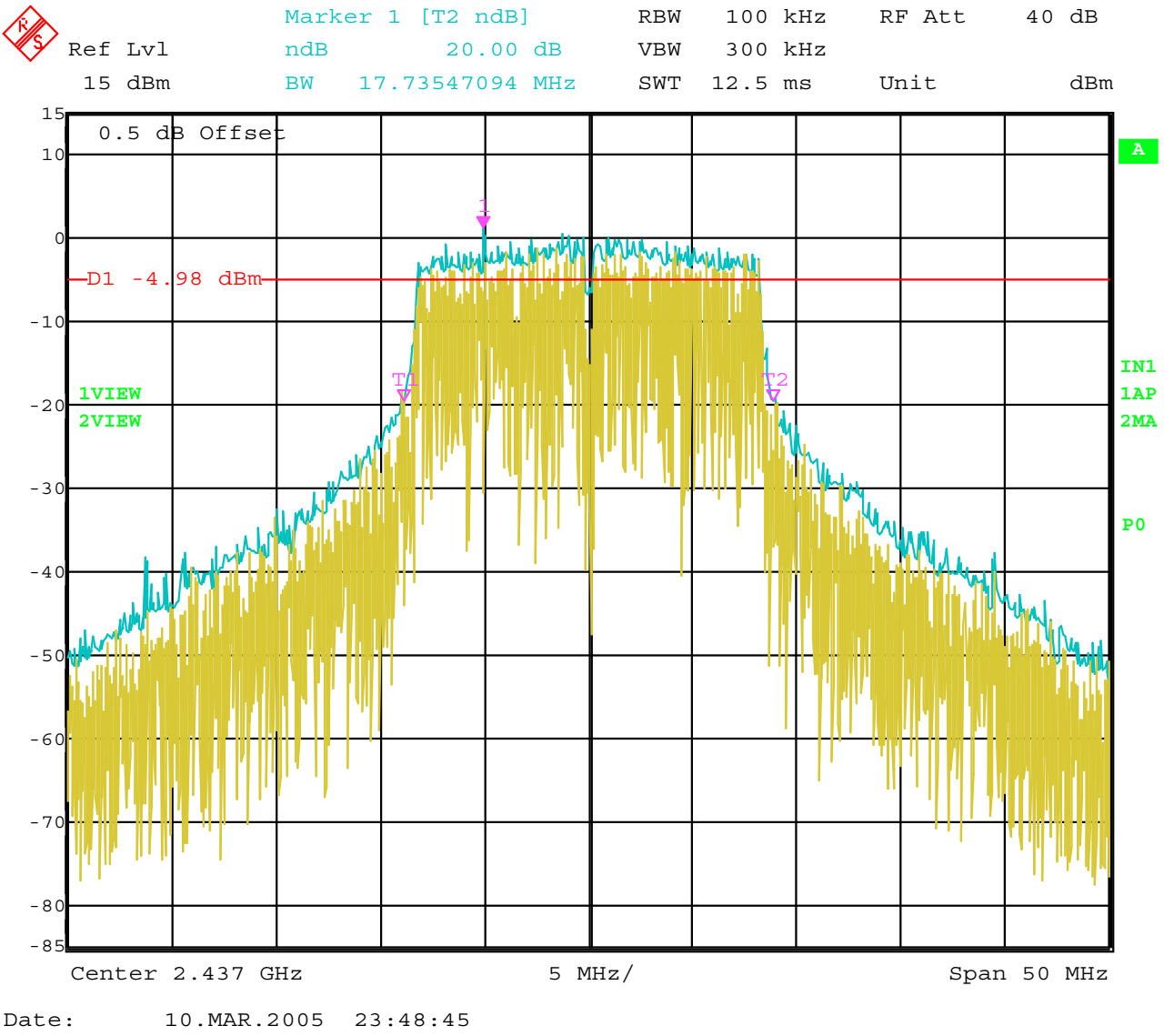
Bandwidth 20 dB – Channel 6 – 802.11 b Mode – Hitachi Antenna



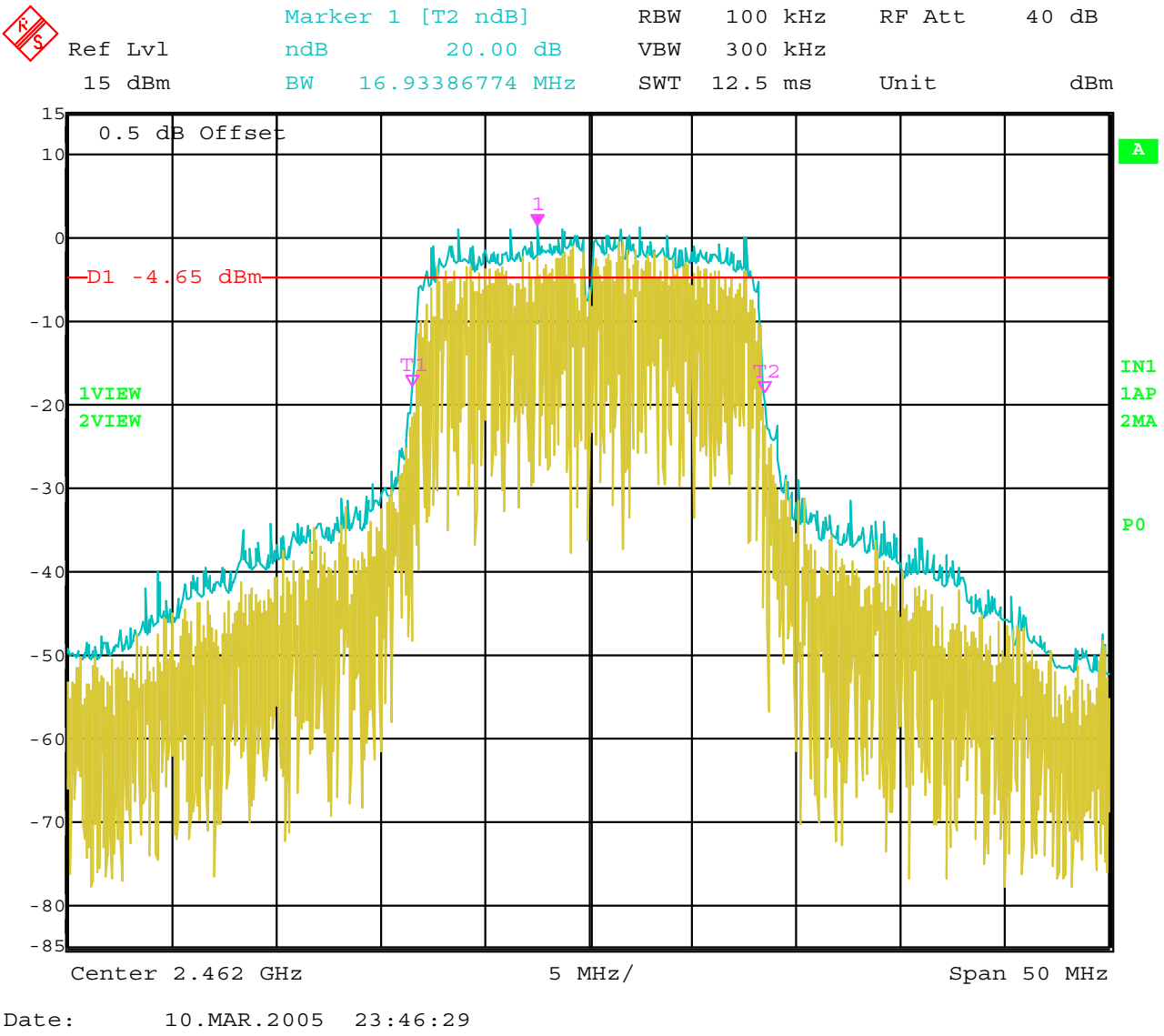
Bandwidth 20 dB – Channel 11 – 802.11 b Mode – Hitachi Antenna



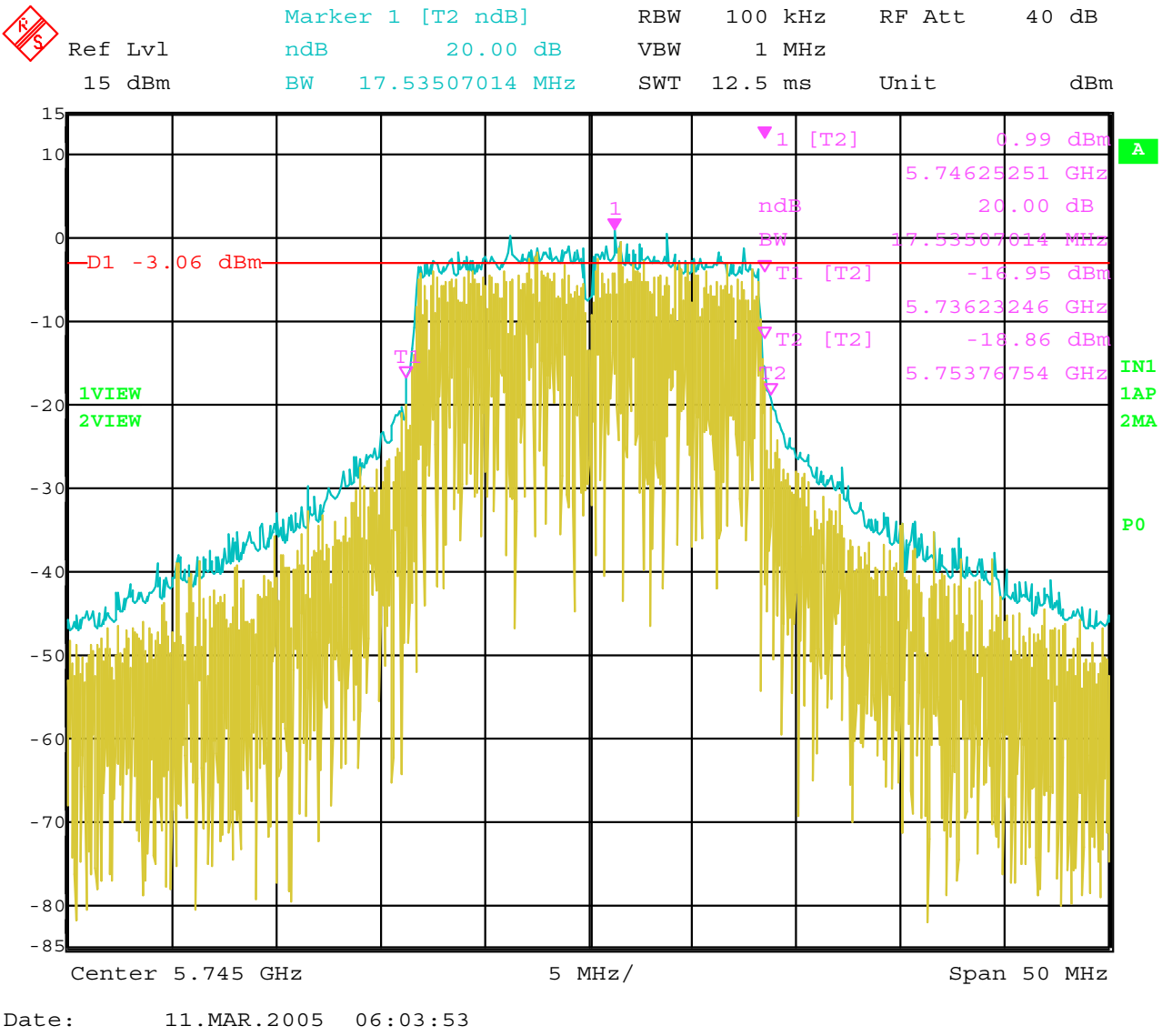
Bandwidth 20 dB – Channel 1 – 802.11 g Mode – Hitachi Antenna



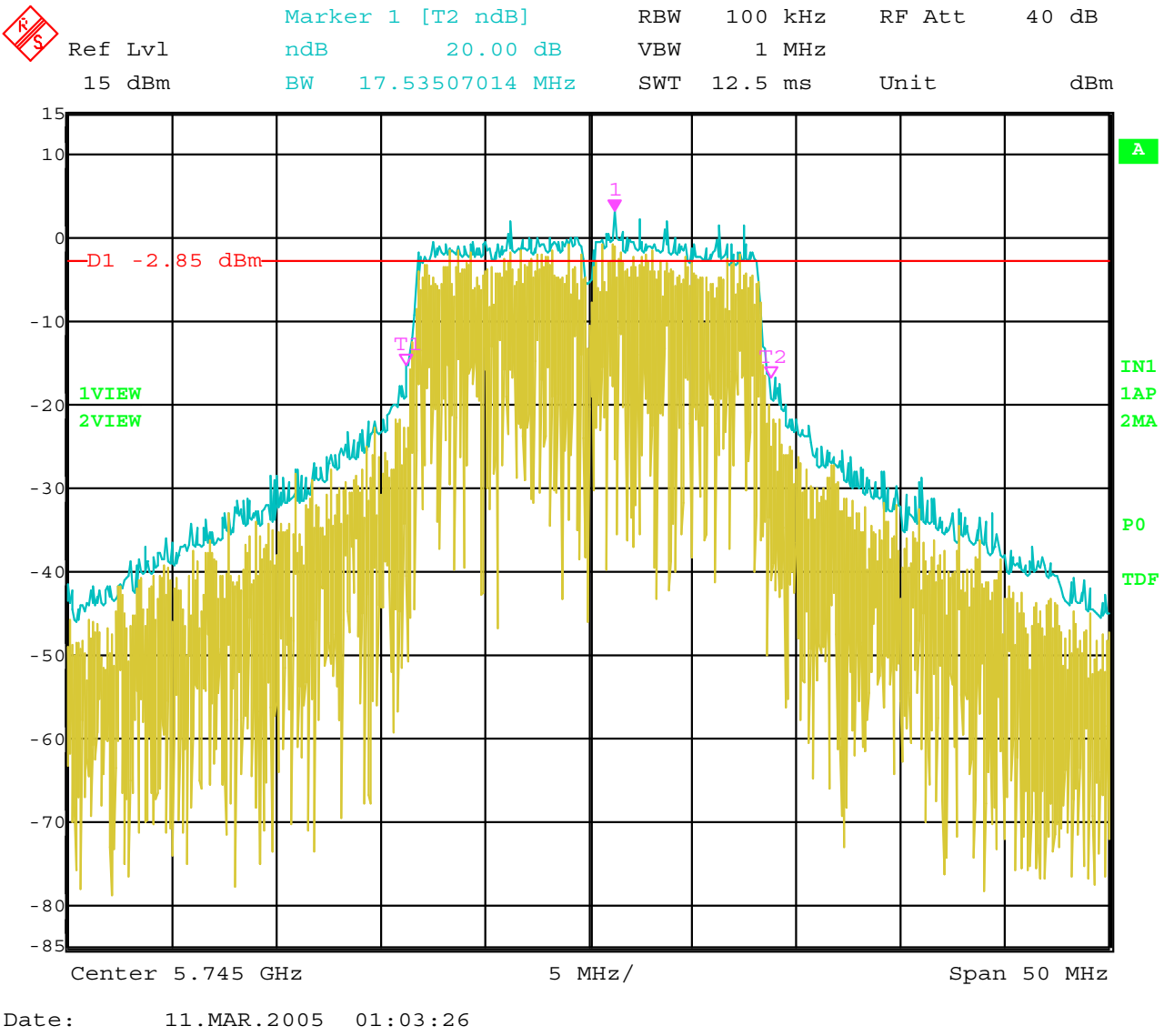
Bandwidth 20 dB – Channel 6 – 802.11 g Mode – Hitachi Antenna



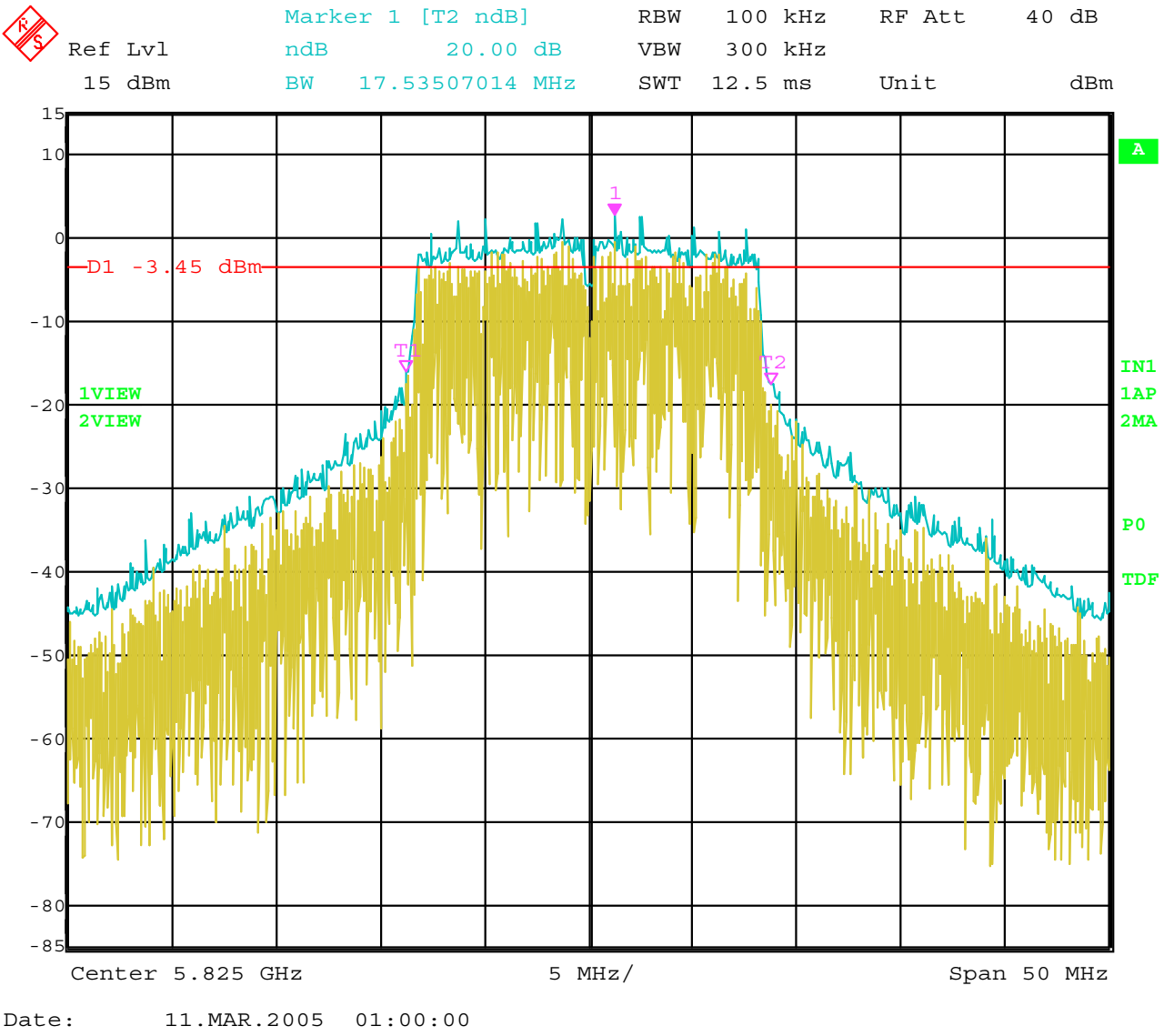
Bandwidth 20 dB – Channel 11 – 802.11 g Mode – Hitachi Antenna



Bandwidth 20 dB – Channel 149 – 802.11 a Mode – Hitachi Antenna



Bandwidth 20 dB – Channel 157 – 802.11 a Mode – Hitachi Antenna



Bandwidth 20 dB – Channel 165 – 802.11 a Mode – Hitachi Antenna

PEAK POWER OUTPUT

DATA SHEETS

PEAK OUTPUT POWER

Intel Corporation

Intel Mini PCI Type 3A 802.11 ABG Wireless LAN Adapter

MODEL: WM3A2915ABG

With Hitachi Antenna

For use in the Dell Agency Series #: PP17L

802.11 b Mode (Worst Case Rate is 1 Mbps)

CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	15.0	17.72
6 (2437 MHz)	16.0	18.96
11 (2462 MHz)	16.5	19.32

802.11 g Mode (Worst Case Rate is 6 Mbps)

CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
1 (2412 MHz)	16.5	24.07
6 (2437 MHz)	16.5	23.84
11 (2462 MHz)	16.5	23.62

PEAK OUTPUT POWER

Intel Corporation

Intel Mini PCI Type 3A 802.11 ABG Wireless LAN Adapter

MODEL: WM3A2915ABG

For use in the Dell Agency Series #: PP17L

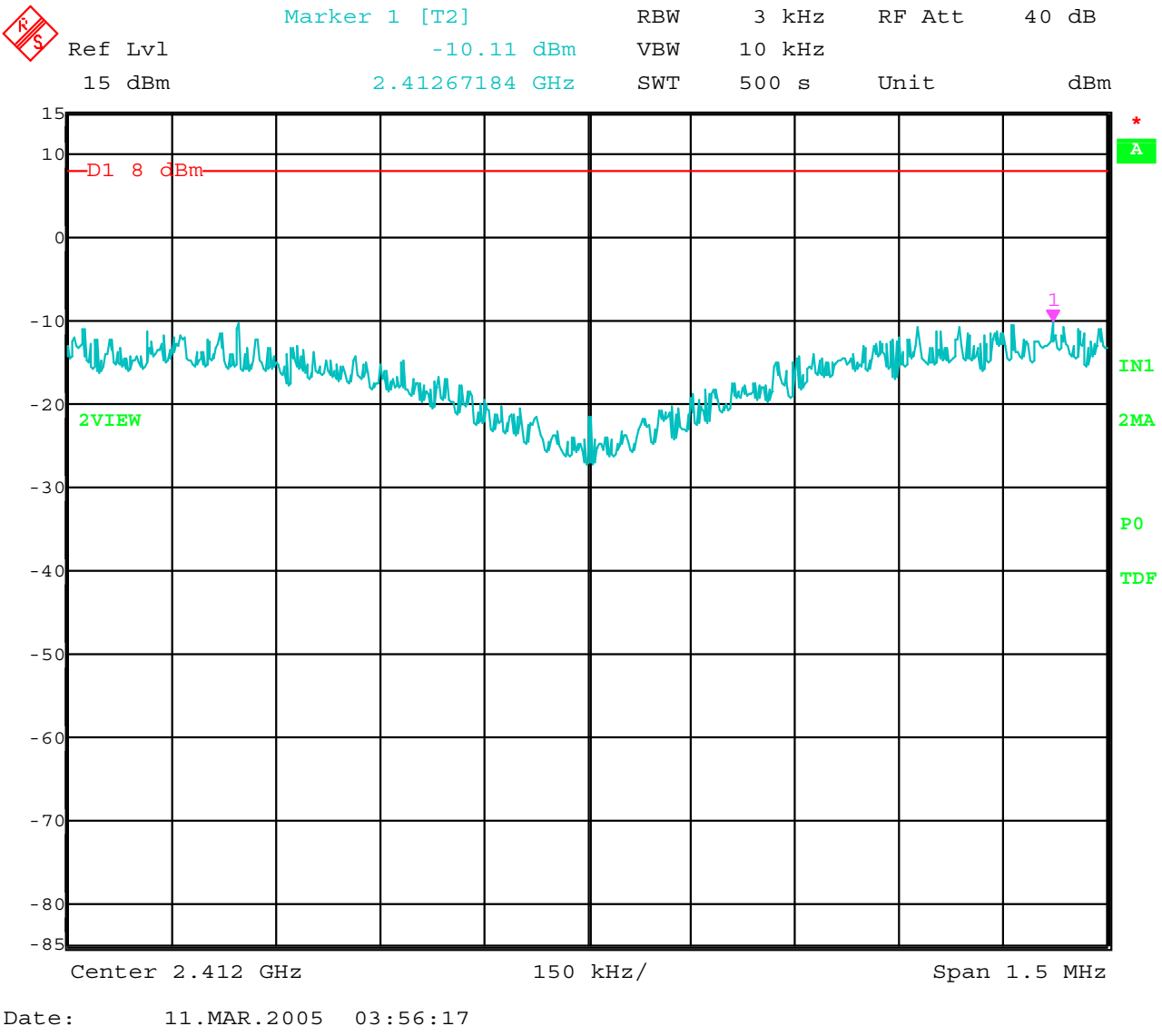
With Hitachi Antenna

802.11 a Mode (Worst Case Rate is 6 Mbps)

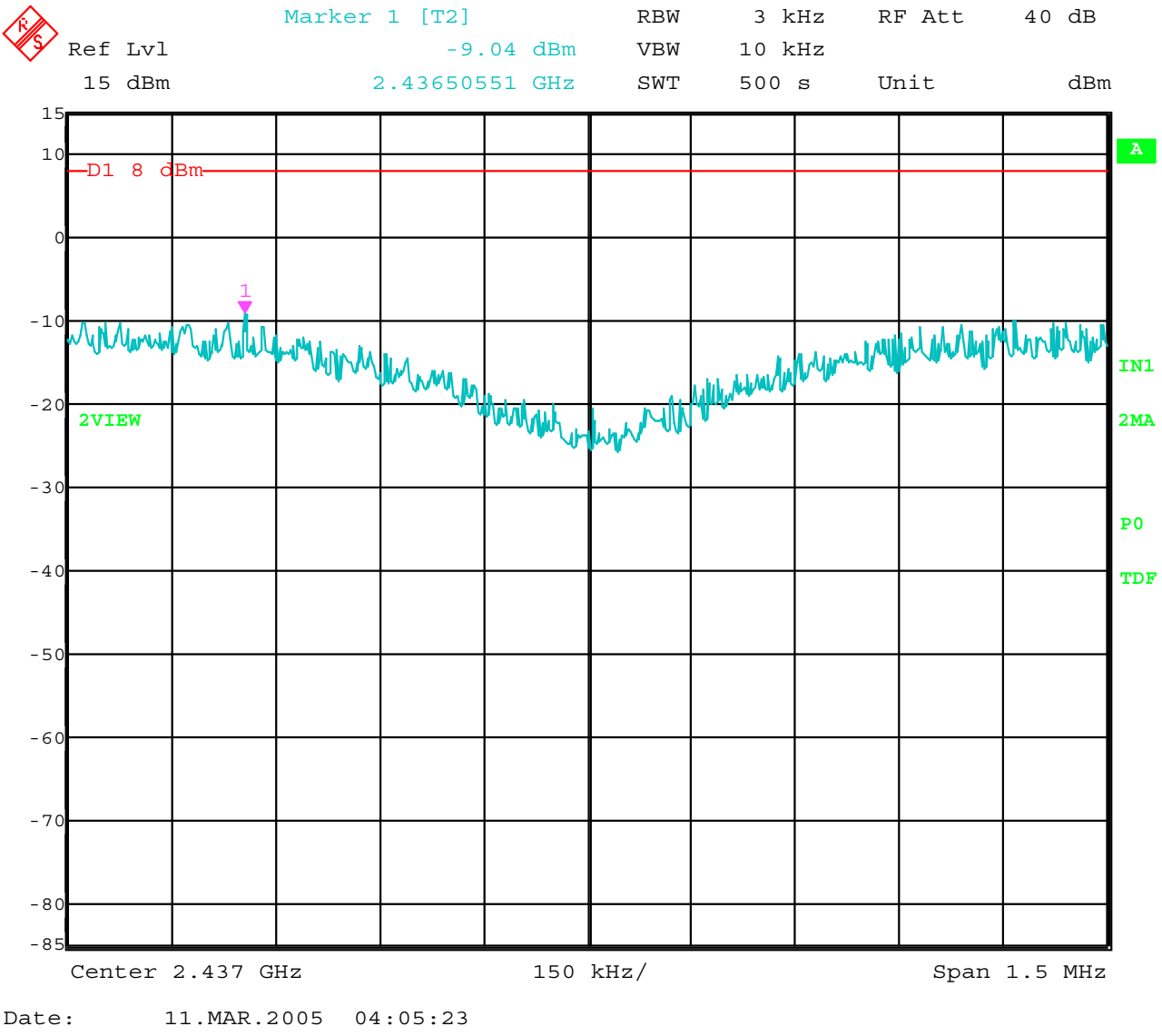
CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
149 (5745 MHz)	14.5	20.94
157 (5785 MHz)	14.5	20.91
165 (5825 MHz)	15.0	21.11

PEAK POWER SPECTRAL DENSITY

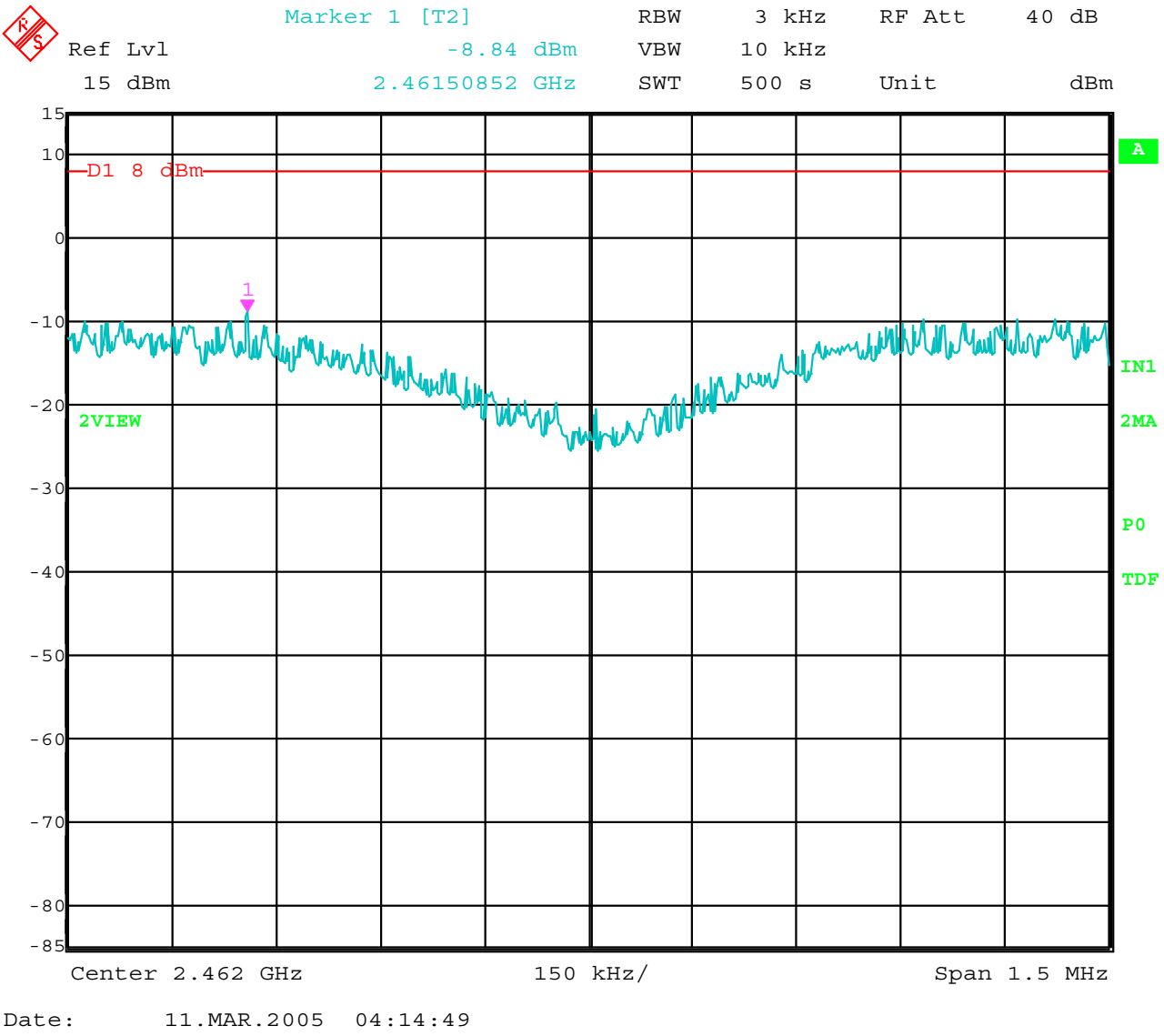
DATA SHEETS



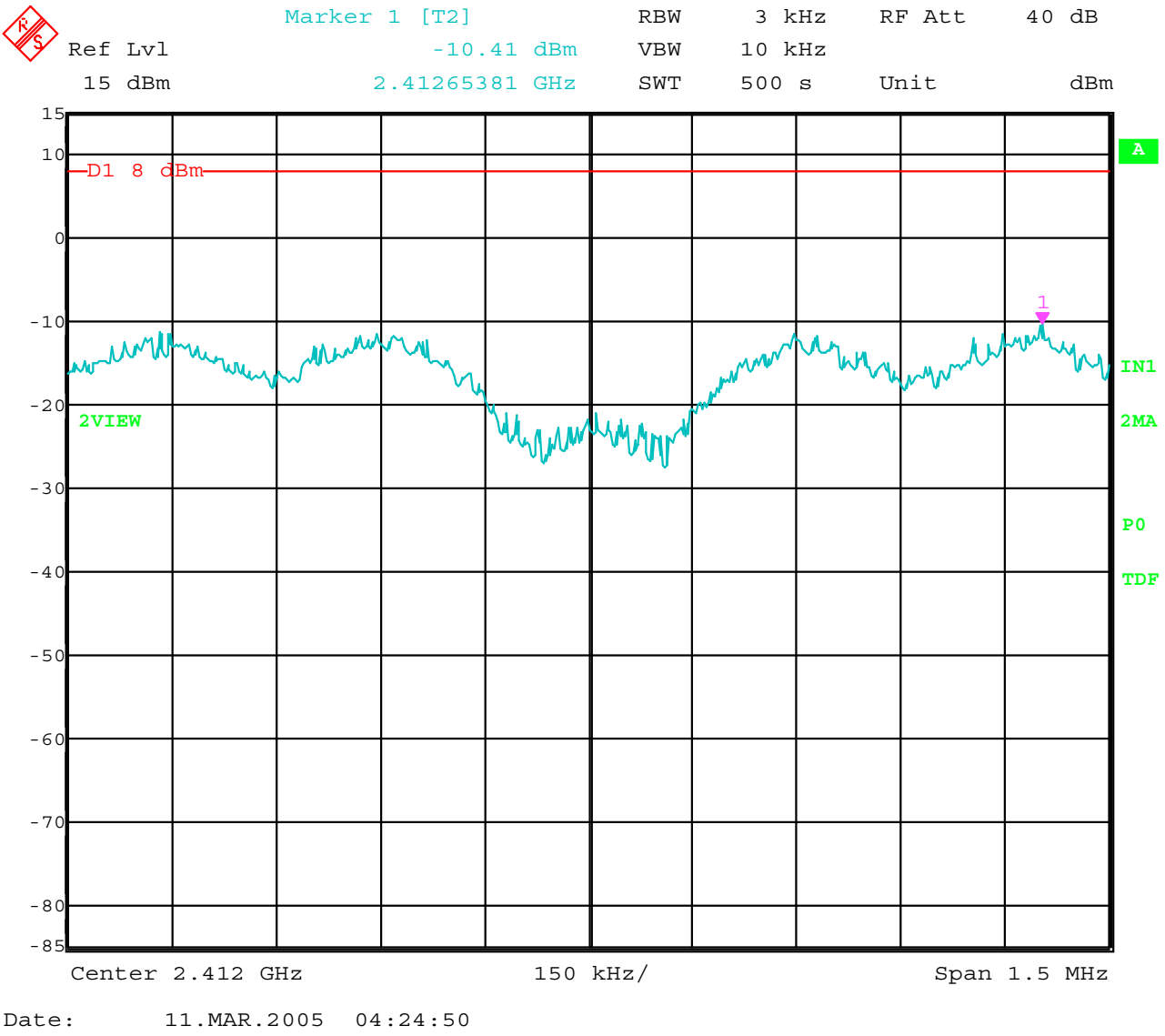
Peak Power Spectral Density – Channel 1 – 802.11 b Mode – Hitachi Antenna



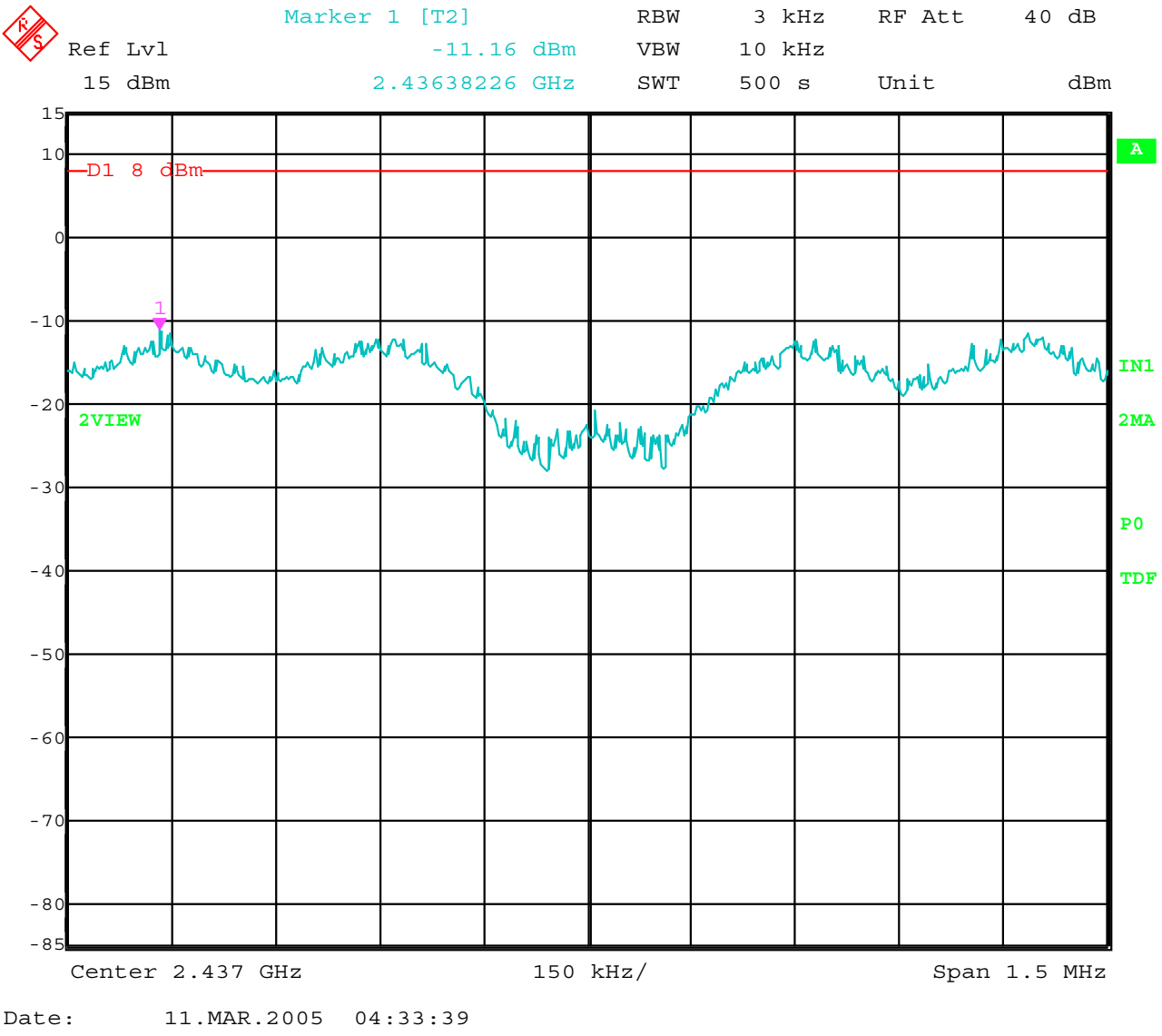
Peak Power Spectral Density – Channel 6 – 802.11 b Mode – Hitachi Antenna



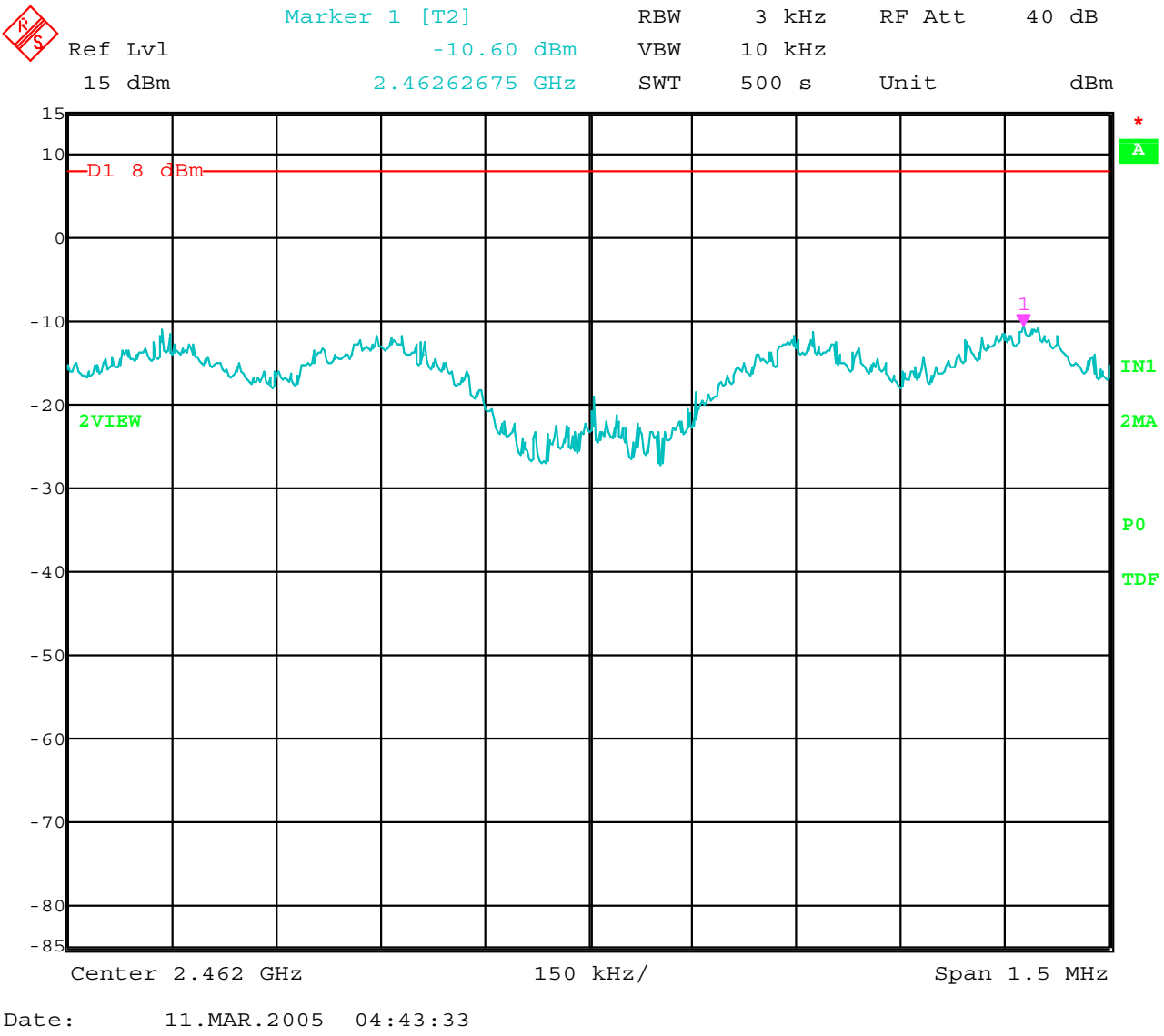
Peak Power Spectral Density – Channel 11 – 802.11 b Mode – Hitachi Antenna



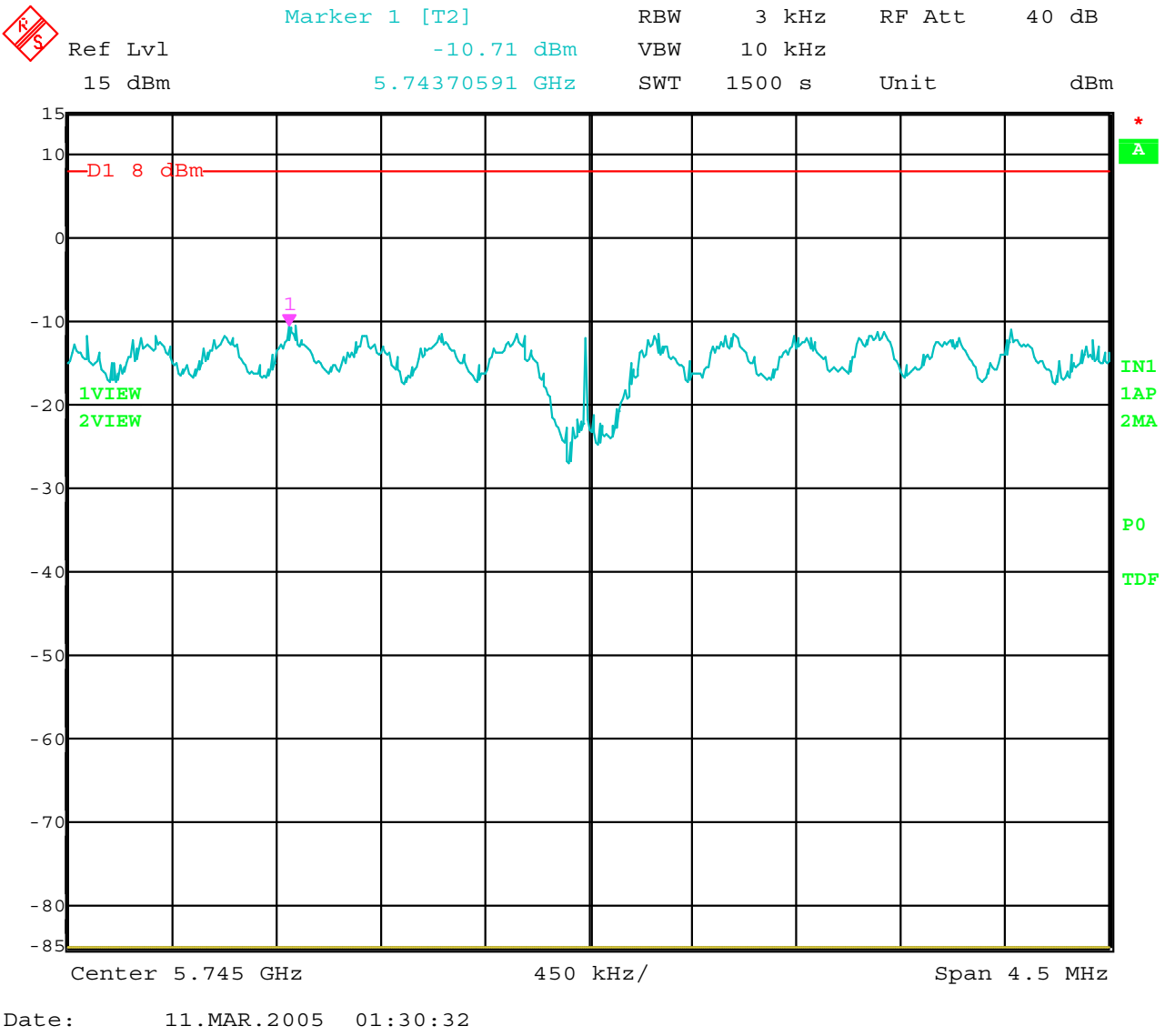
Peak Power Spectral Density – Channel 1 – 802.11 g Mode – Hitachi Antenna



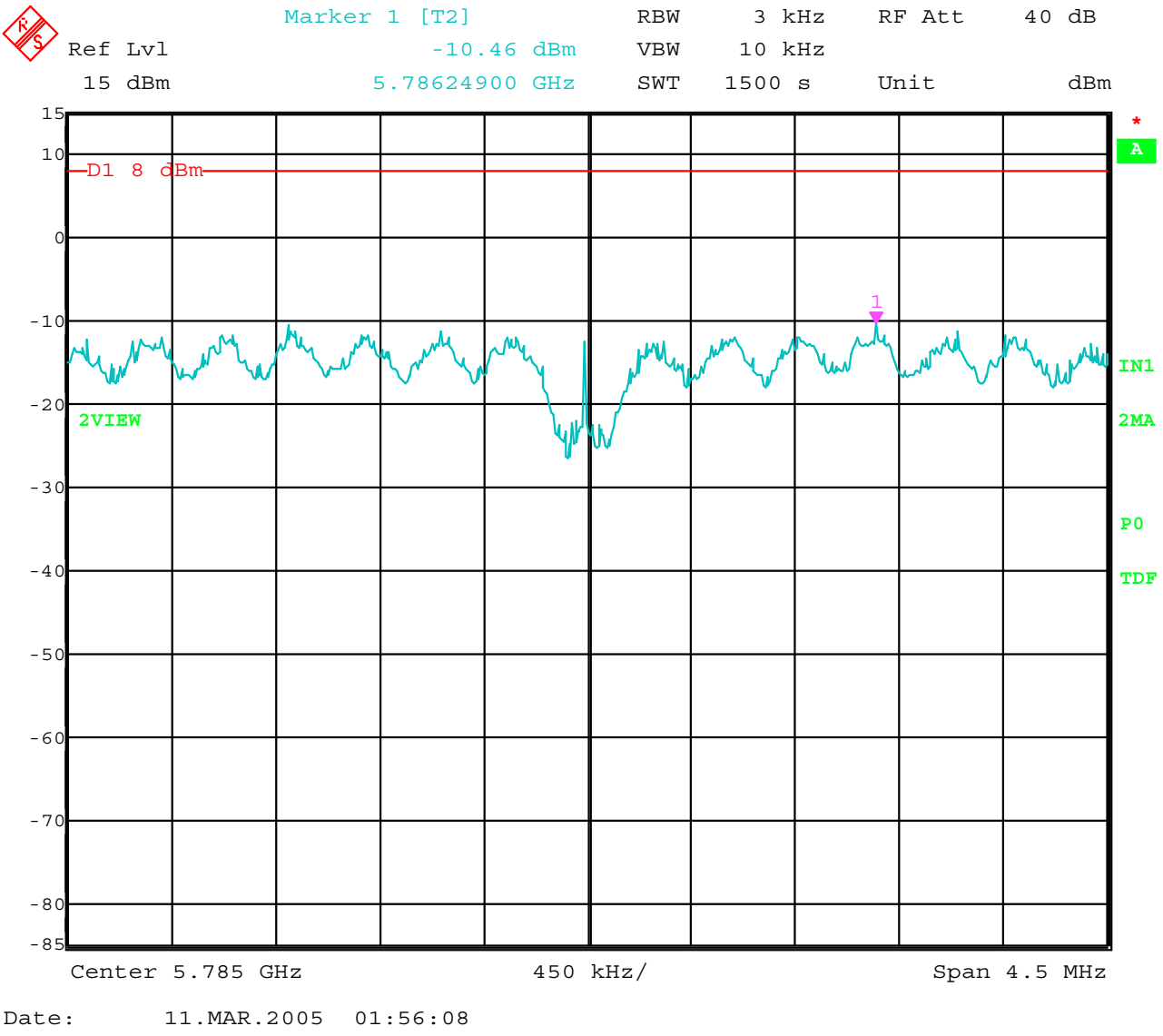
Peak Power Spectral Density – Channel 6 – 802.11 g Mode – Hitachi Antenna



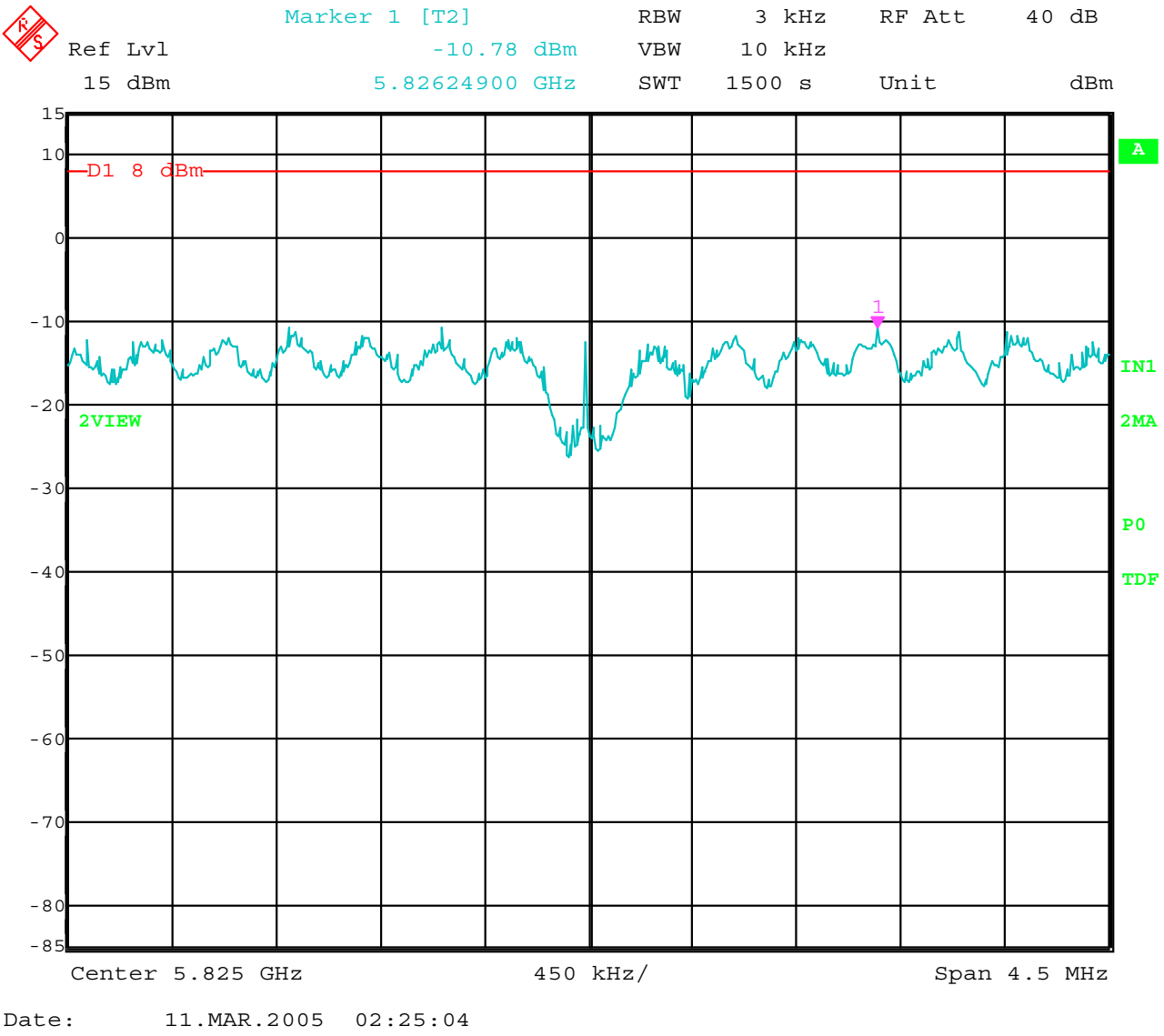
Peak Power Spectral Density – Channel 11 – 802.11 g Mode – Hitachi Antenna



Spectral Density Output – Channel 149 – 802.11 a Mode – Hitachi Antenna



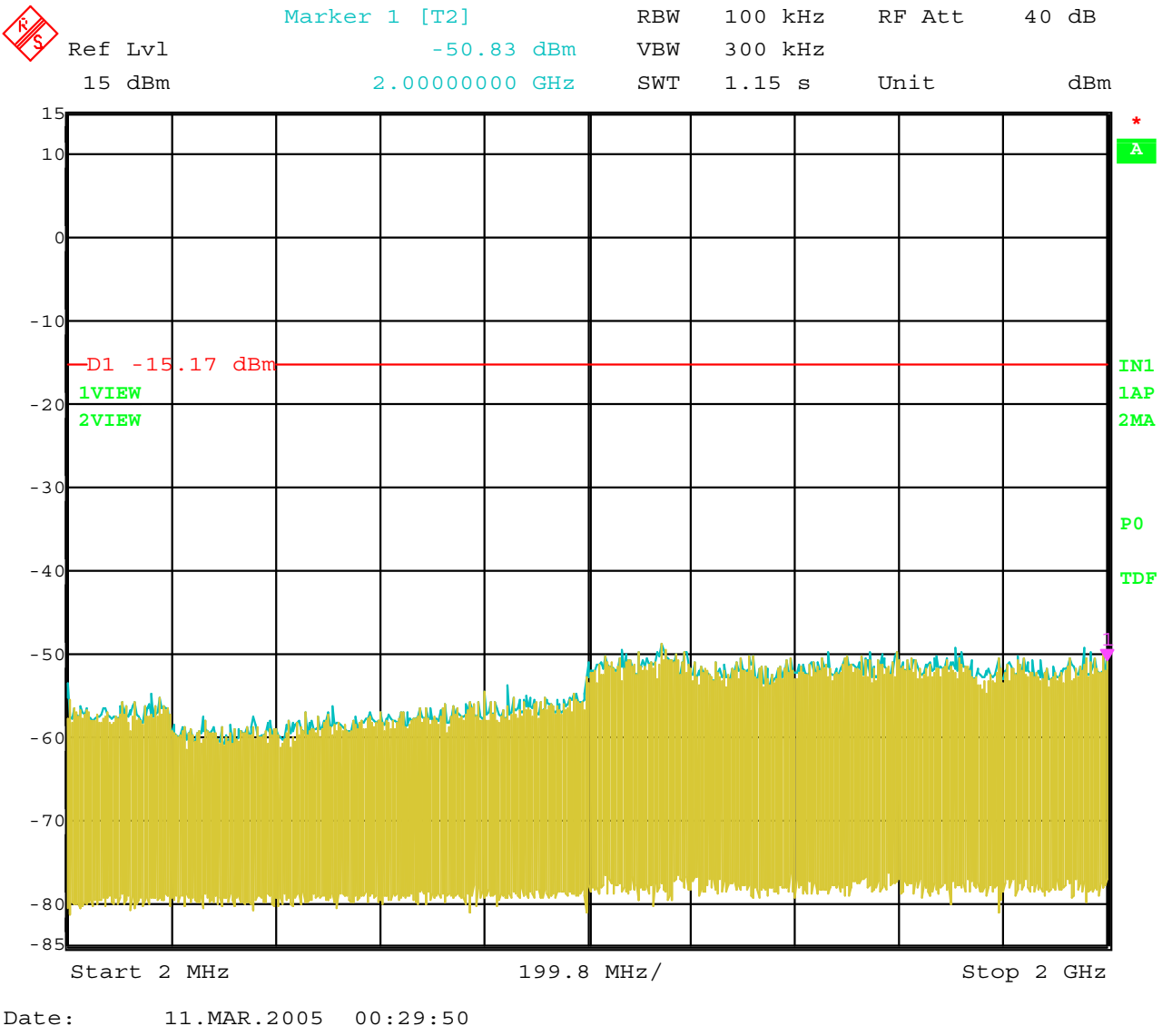
Spectral Density Output – Channel 157 – 802.11 a Mode – Hitachi Antenna



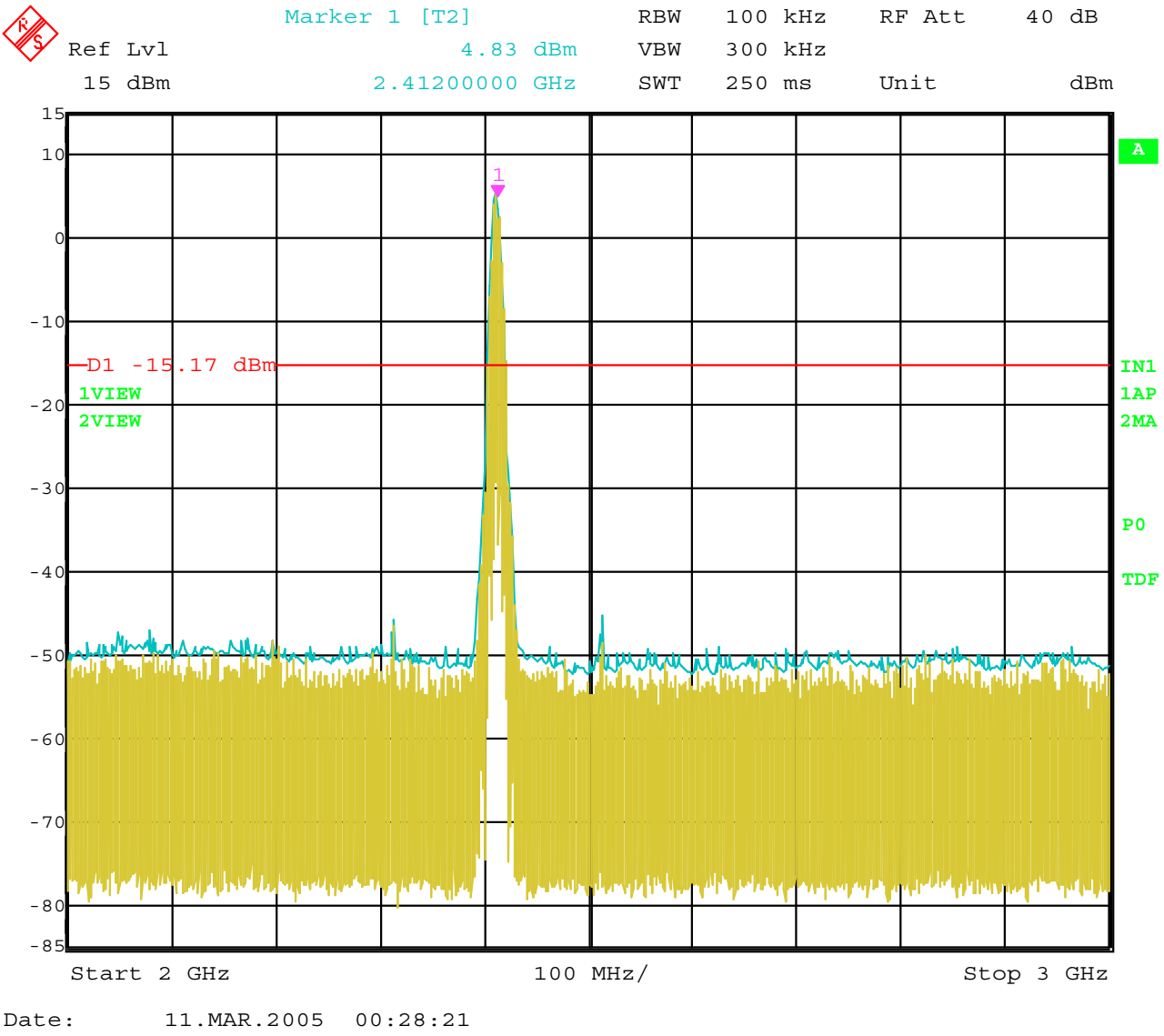
Spectral Density Output – Channel 165 – 802.11 a Mode – Hitachi Antenna

RF ANTENNA CONDUCTED

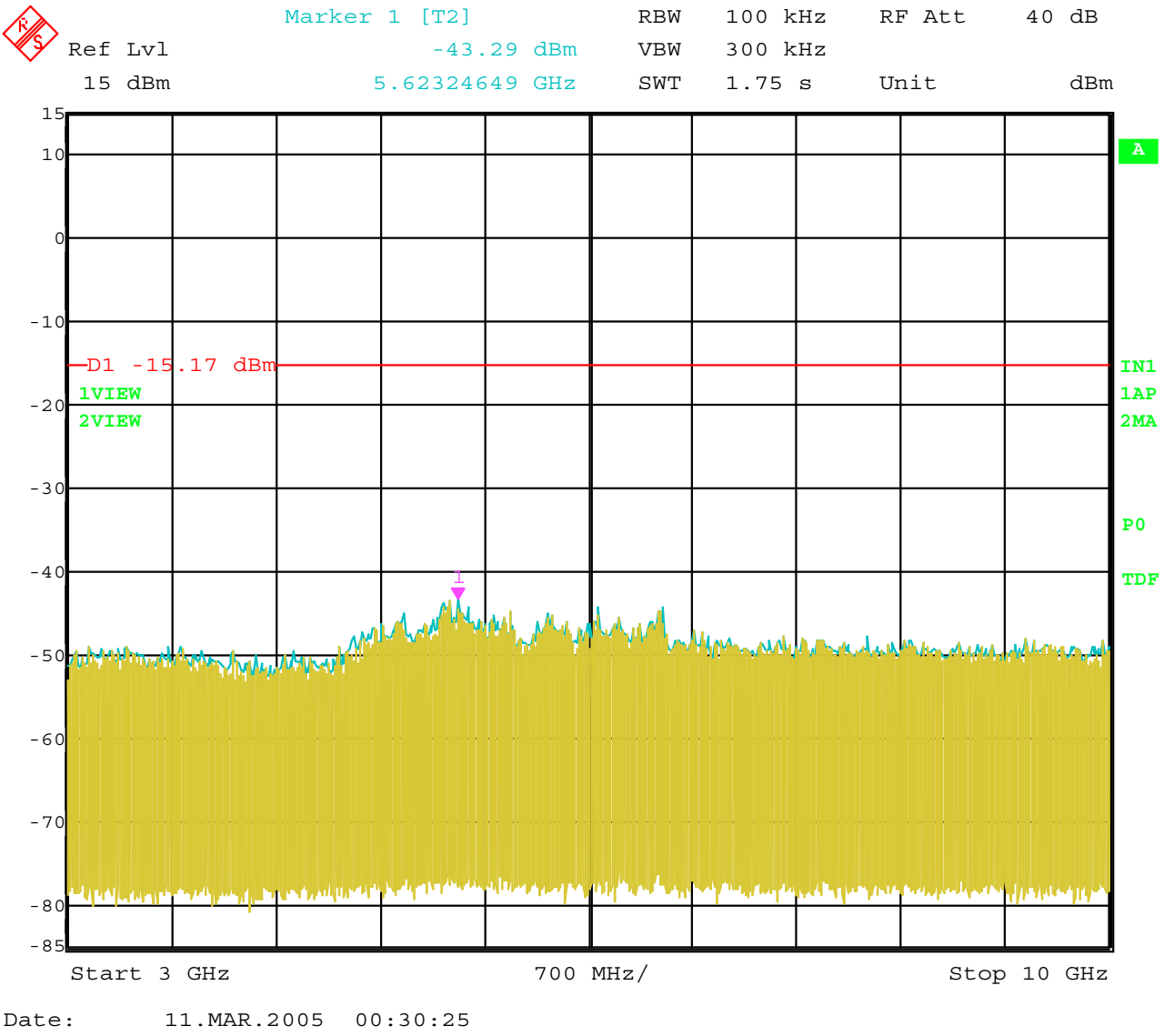
DATA SHEETS



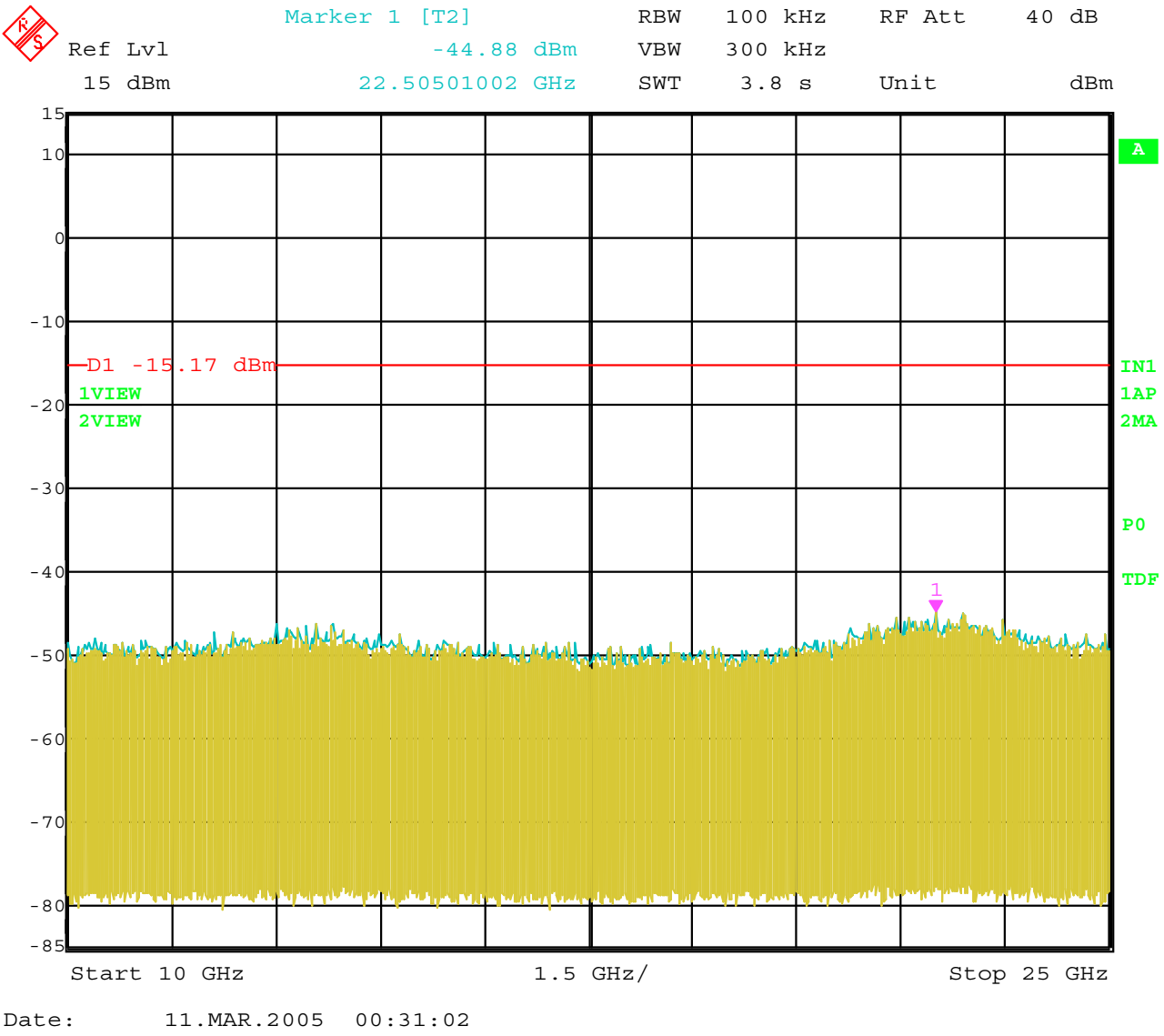
RF Antenna Conducted – Channel 1 – 802.11 b Mode – Hitachi Antenna – 2 MHz to 2 GHz



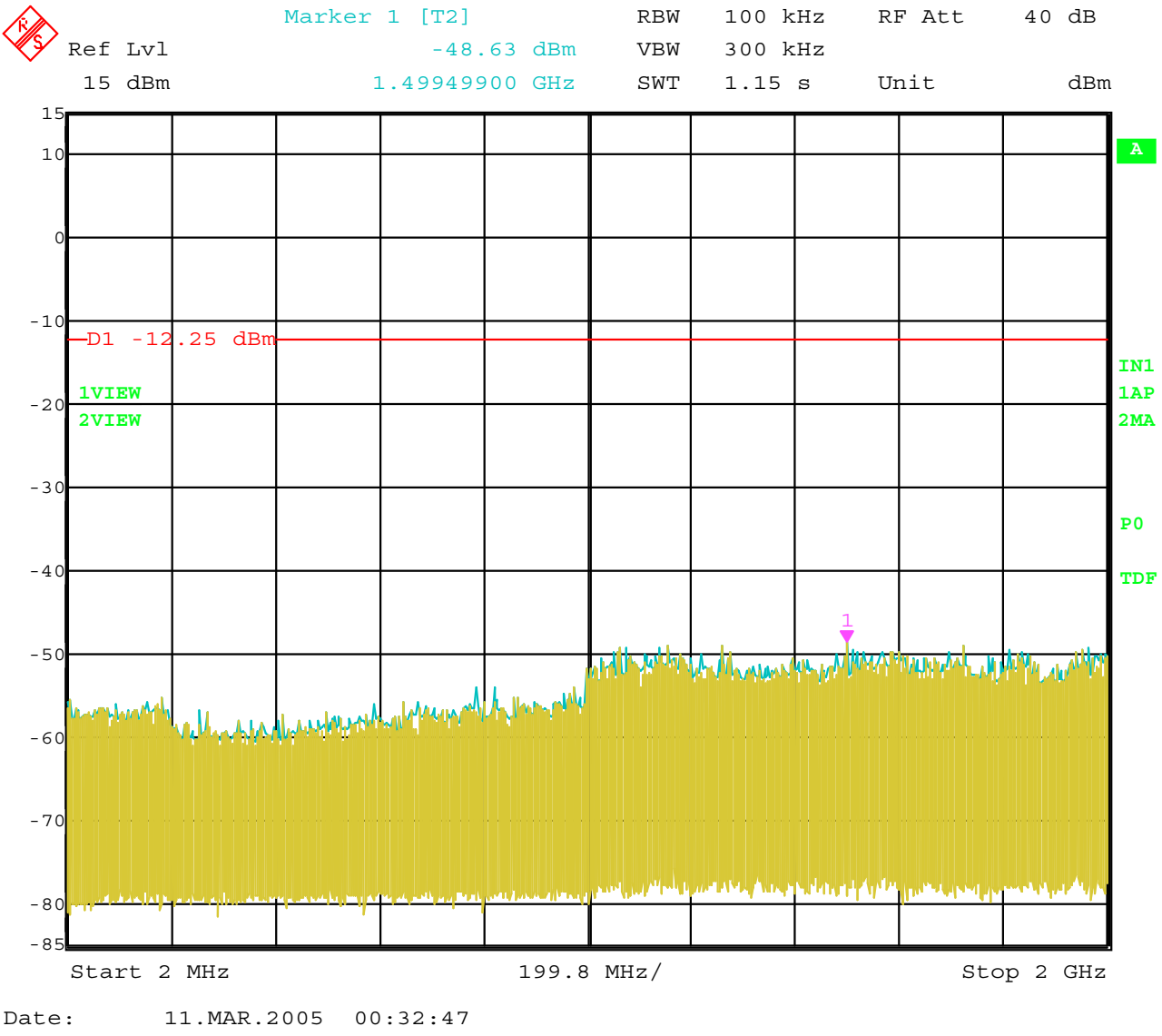
RF Antenna Conducted – Channel 1 – 802.11 b Mode – Hitachi Antenna – 2 GHz to 3 GHz



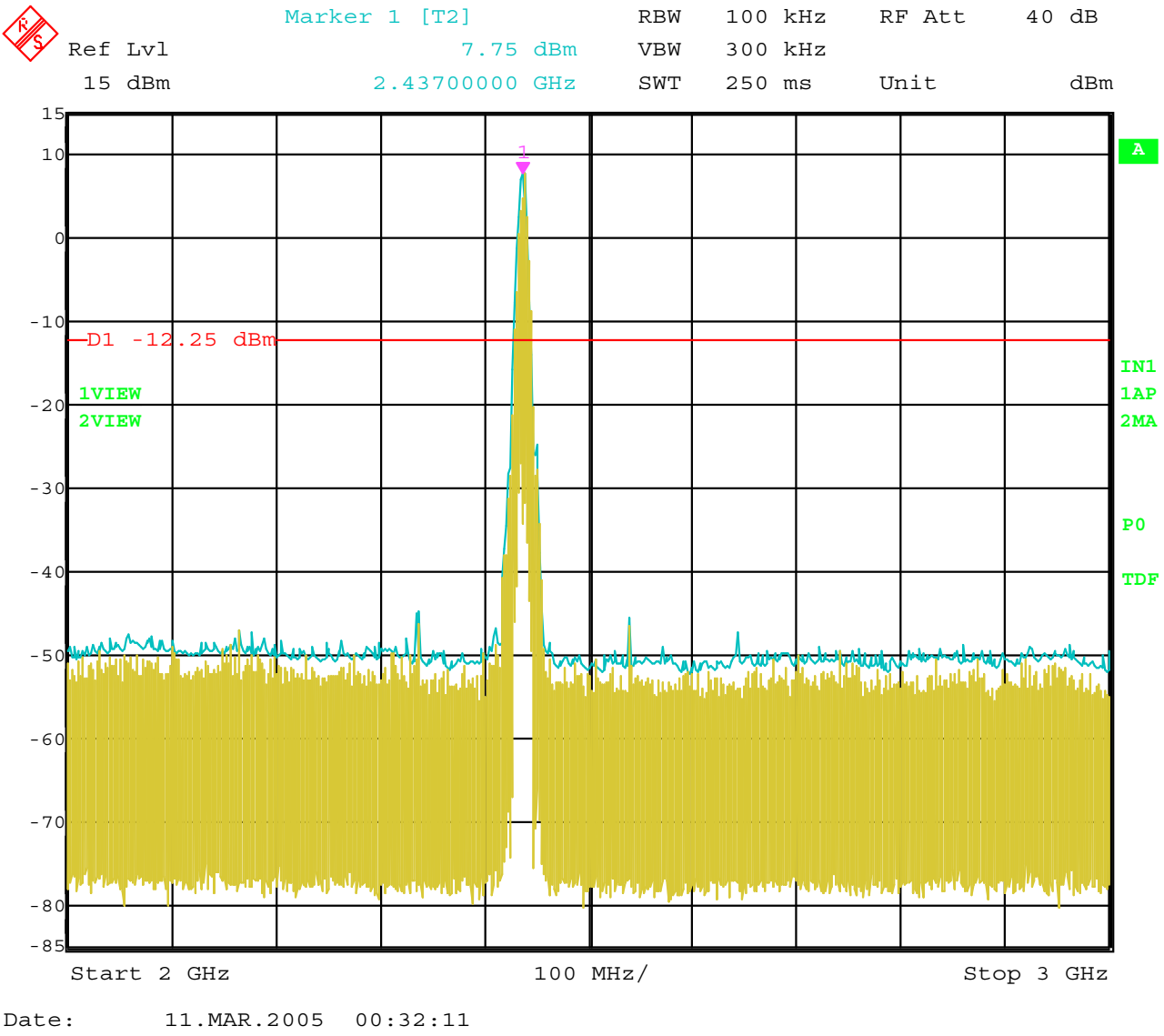
RF Antenna Conducted – Channel 1 – 802.11 b Mode – Hitachi Antenna – 3 GHz to 10 GHz



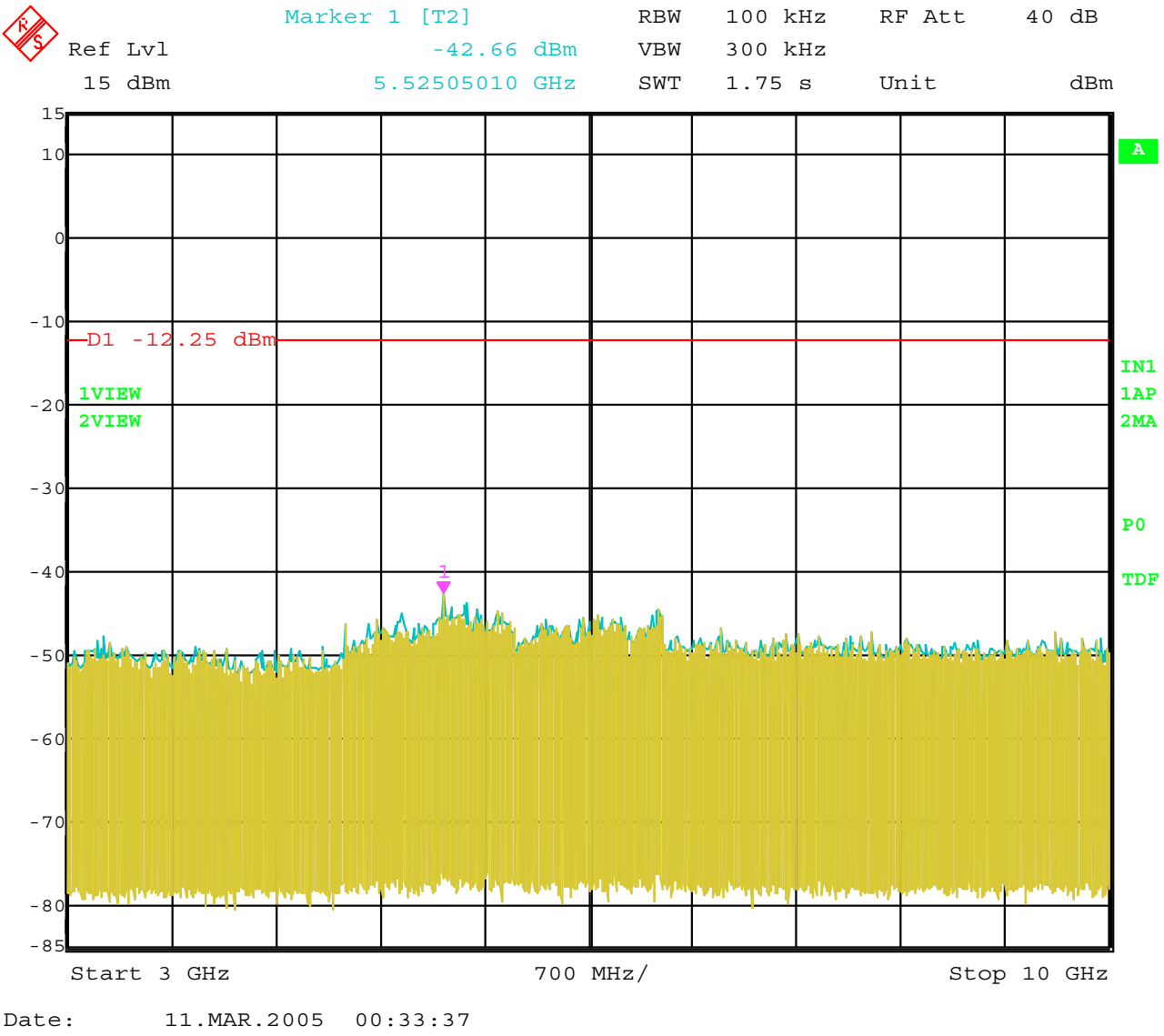
RF Antenna Conducted – Channel 1 – 802.11 b Mode – Hitachi Antenna – 10 GHz to 25 GHz



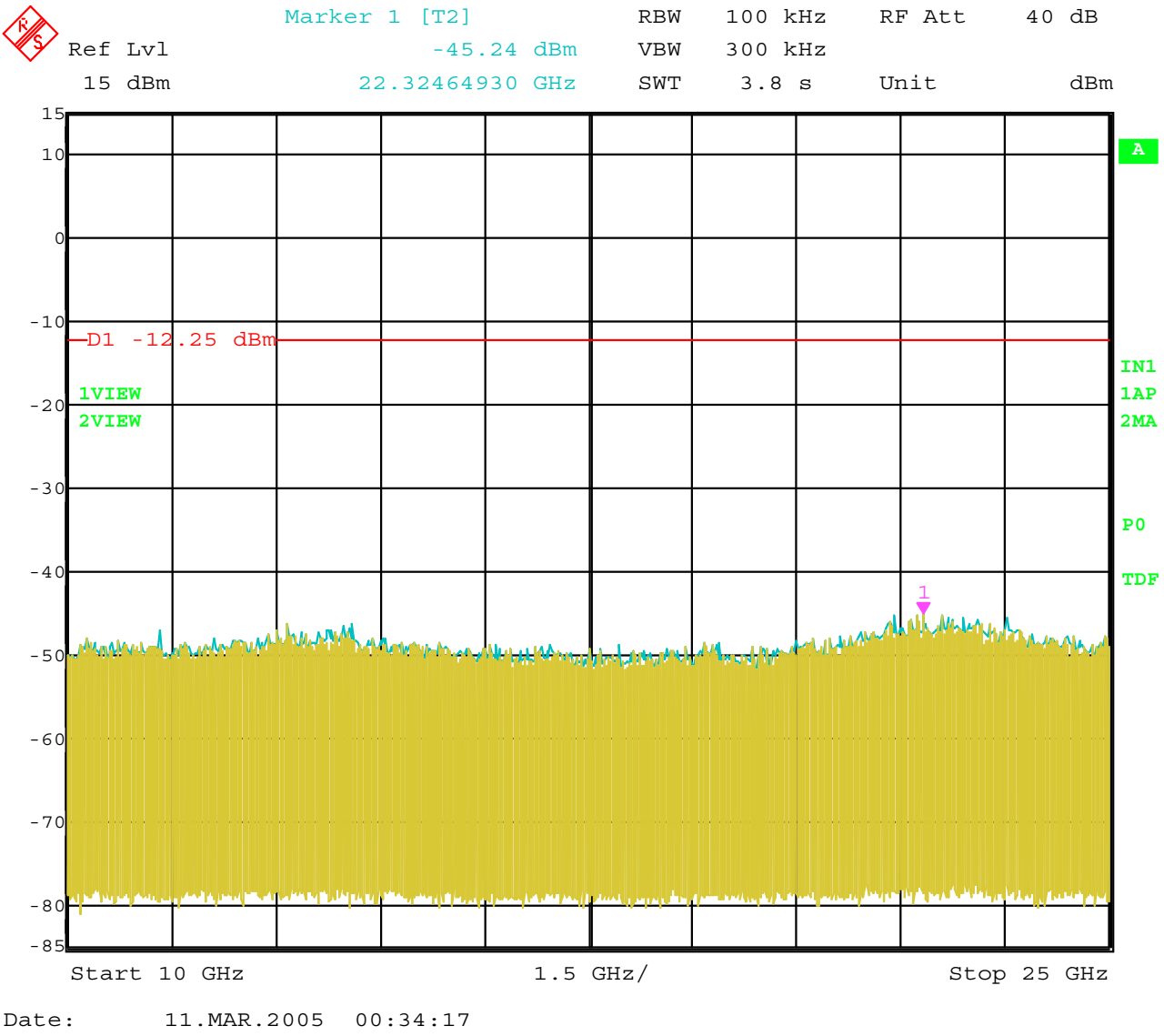
RF Antenna Conducted – Channel 6 – 802.11 b Mode – Hitachi Antenna – 2 MHz to 2 GHz



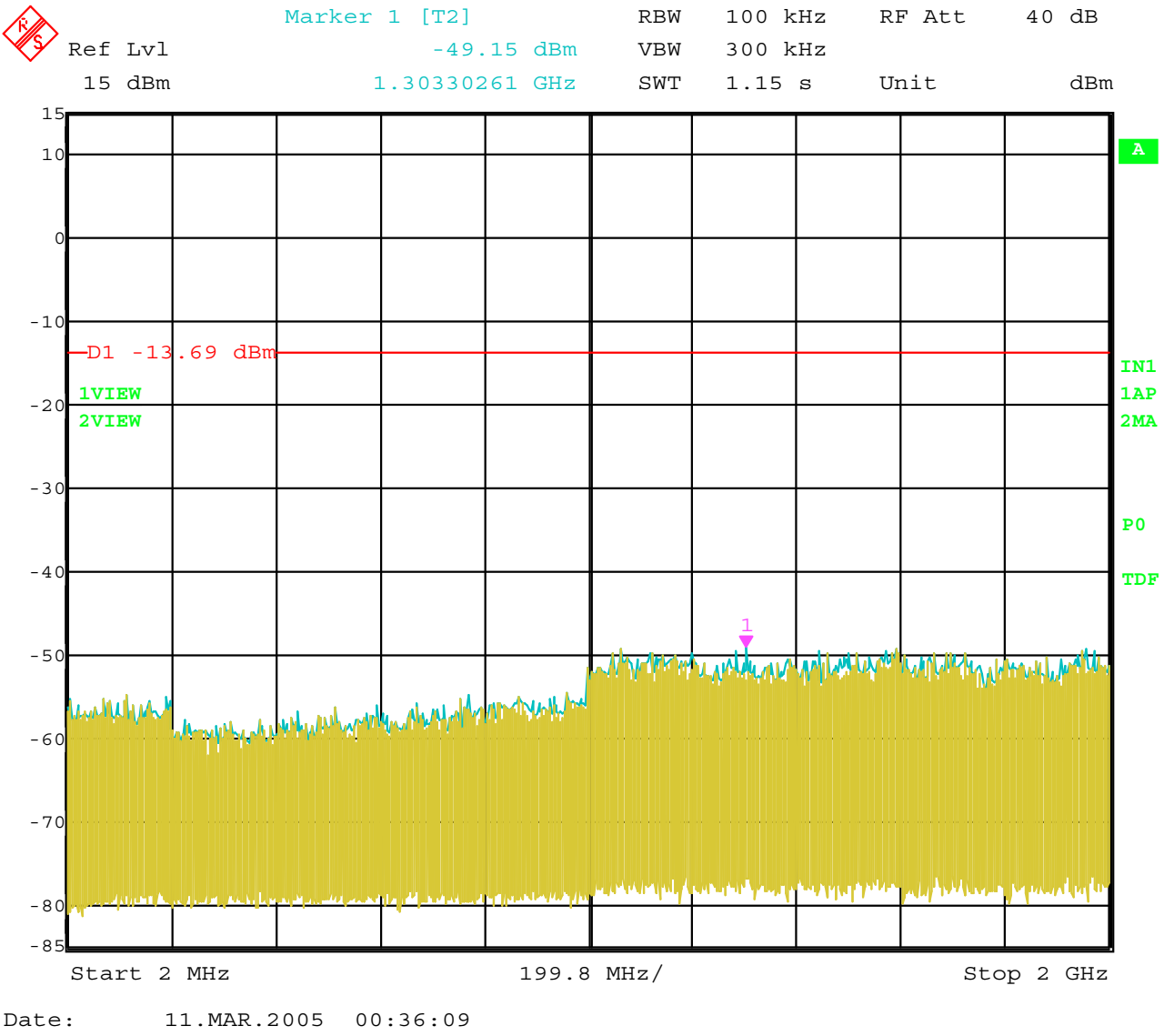
RF Antenna Conducted – Channel 6 – 802.11 b Mode – Hitachi Antenna – 2 GHz to 3 GHz



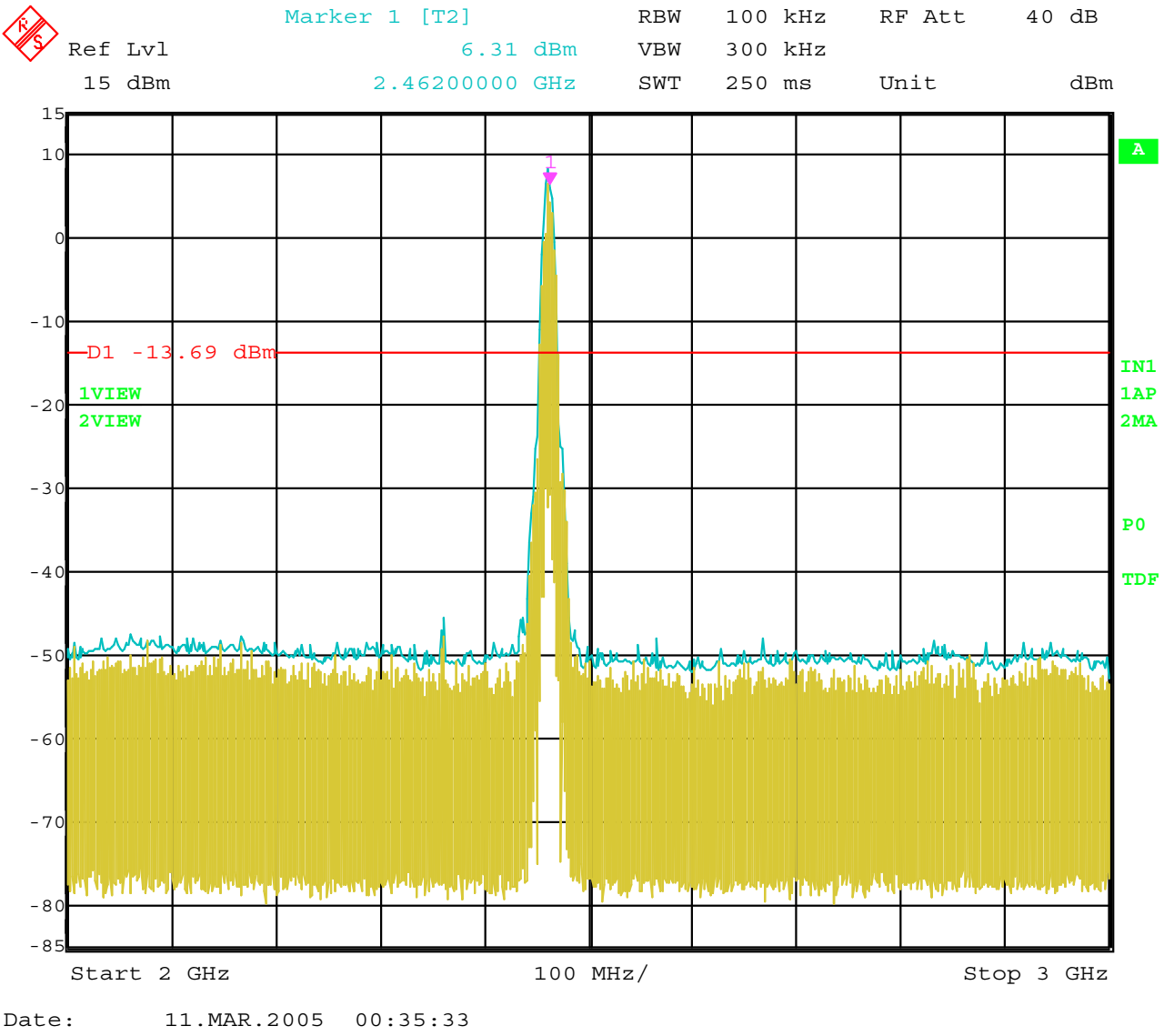
RF Antenna Conducted – Channel 6 – 802.11 b Mode – Hitachi Antenna – 3 GHz to 10 GHz



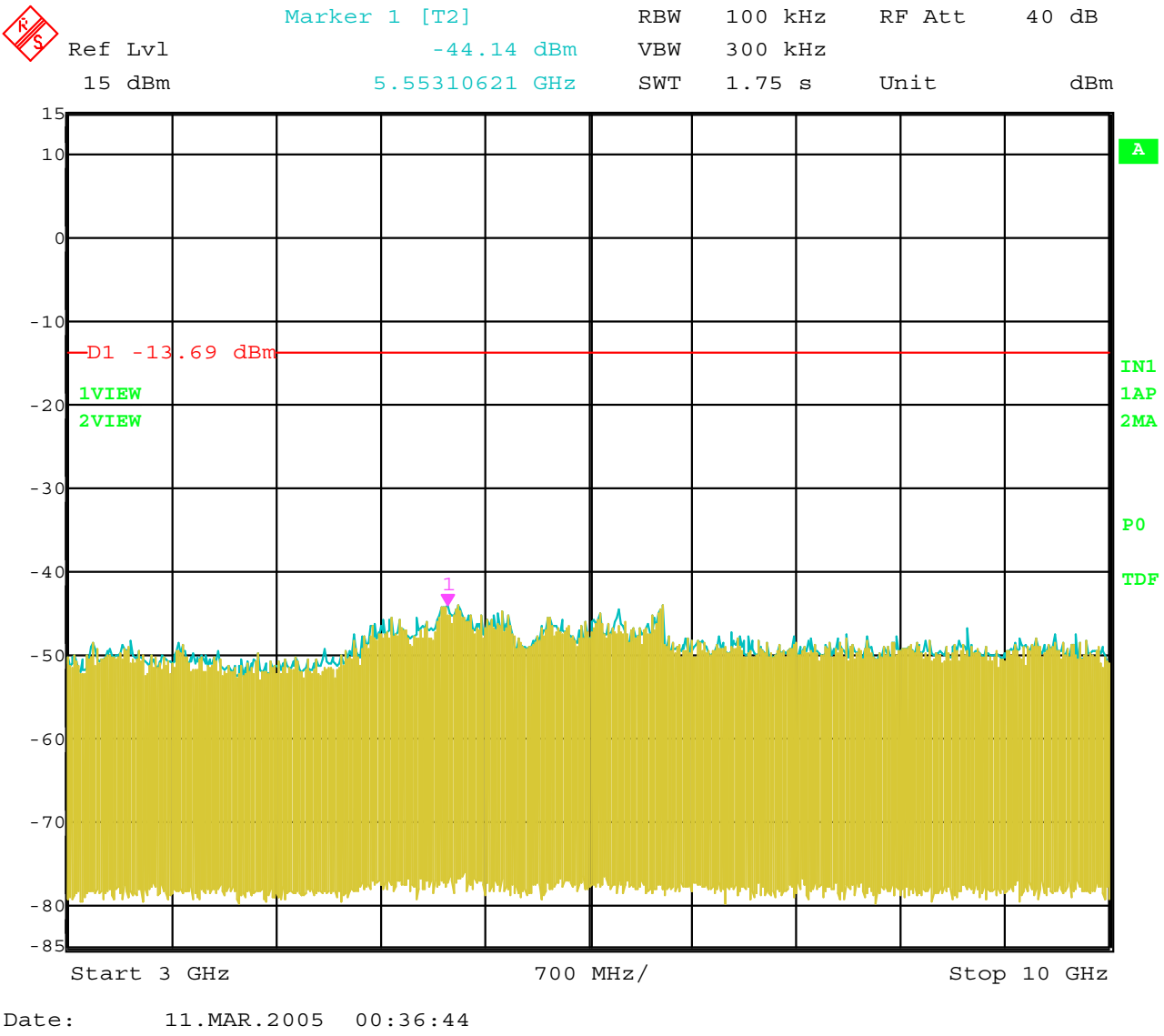
RF Antenna Conducted – Channel 6 – 802.11 b Mode – Hitachi Antenna – 10 GHz to 25 GHz



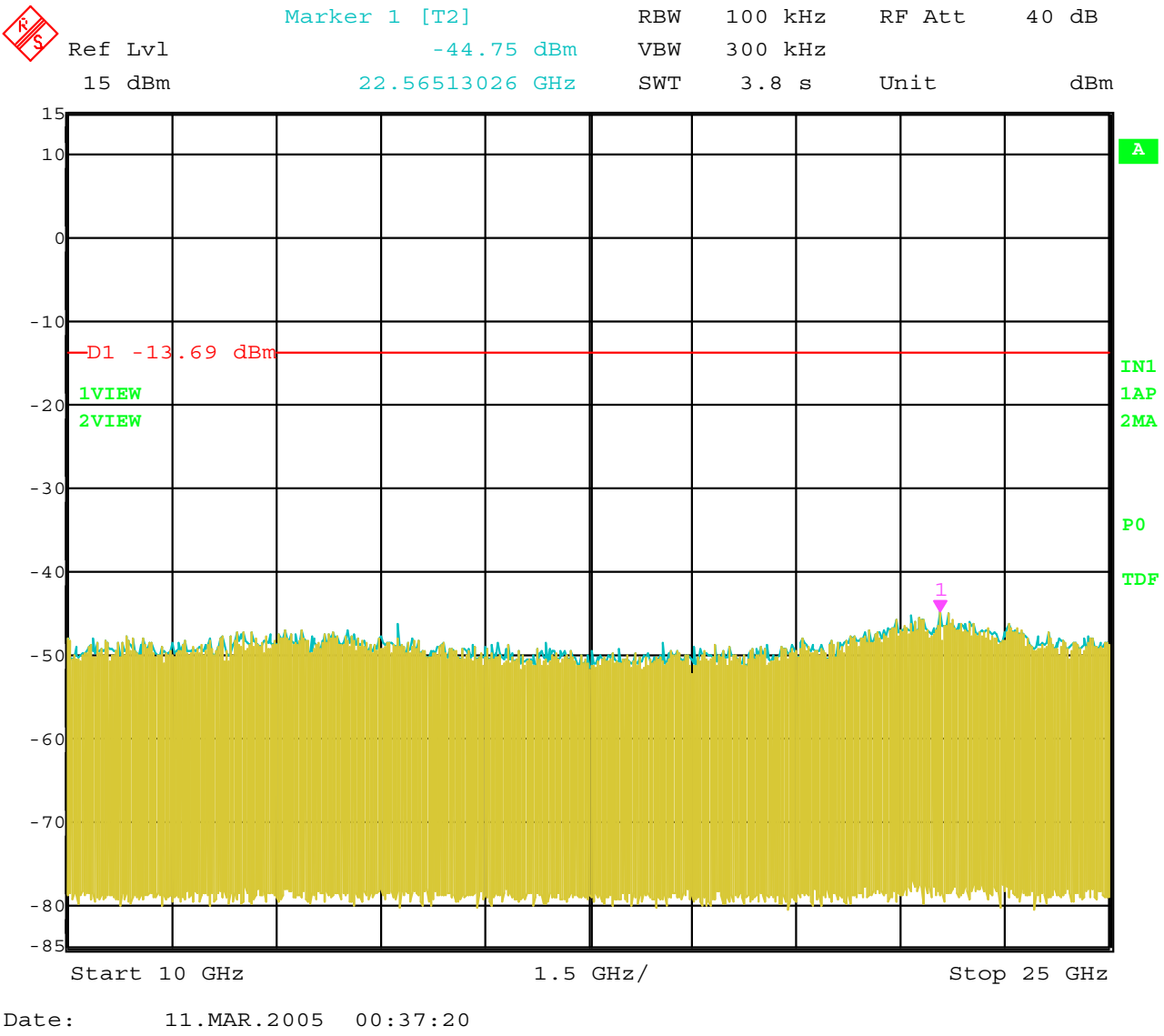
RF Antenna Conducted – Channel 11 – 802.11 b Mode – Hitachi Antenna – 2 MHz to 2 GHz



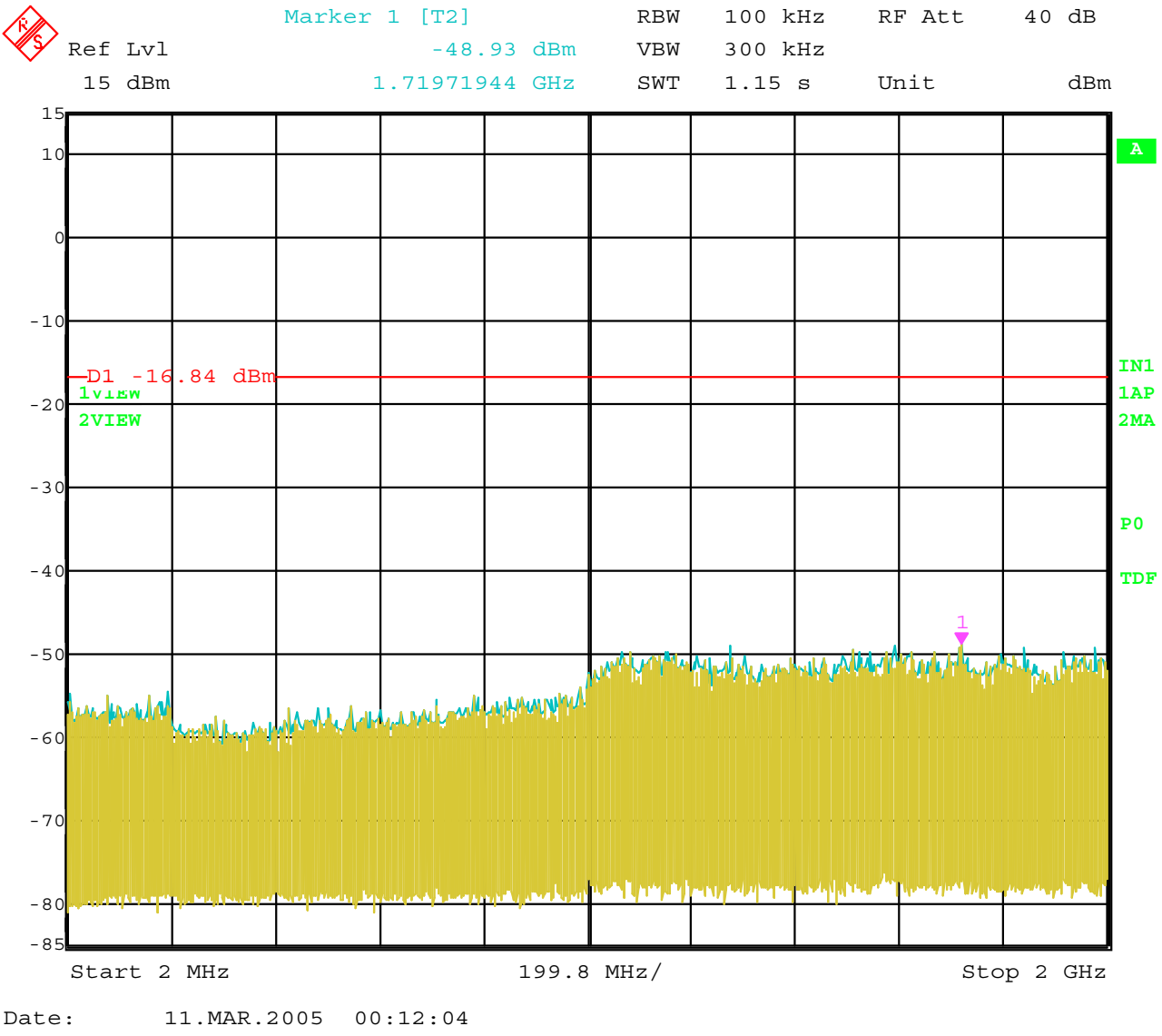
RF Antenna Conducted – Channel 11 – 802.11 b Mode – Hitachi Antenna – 2 GHz to 3 GHz



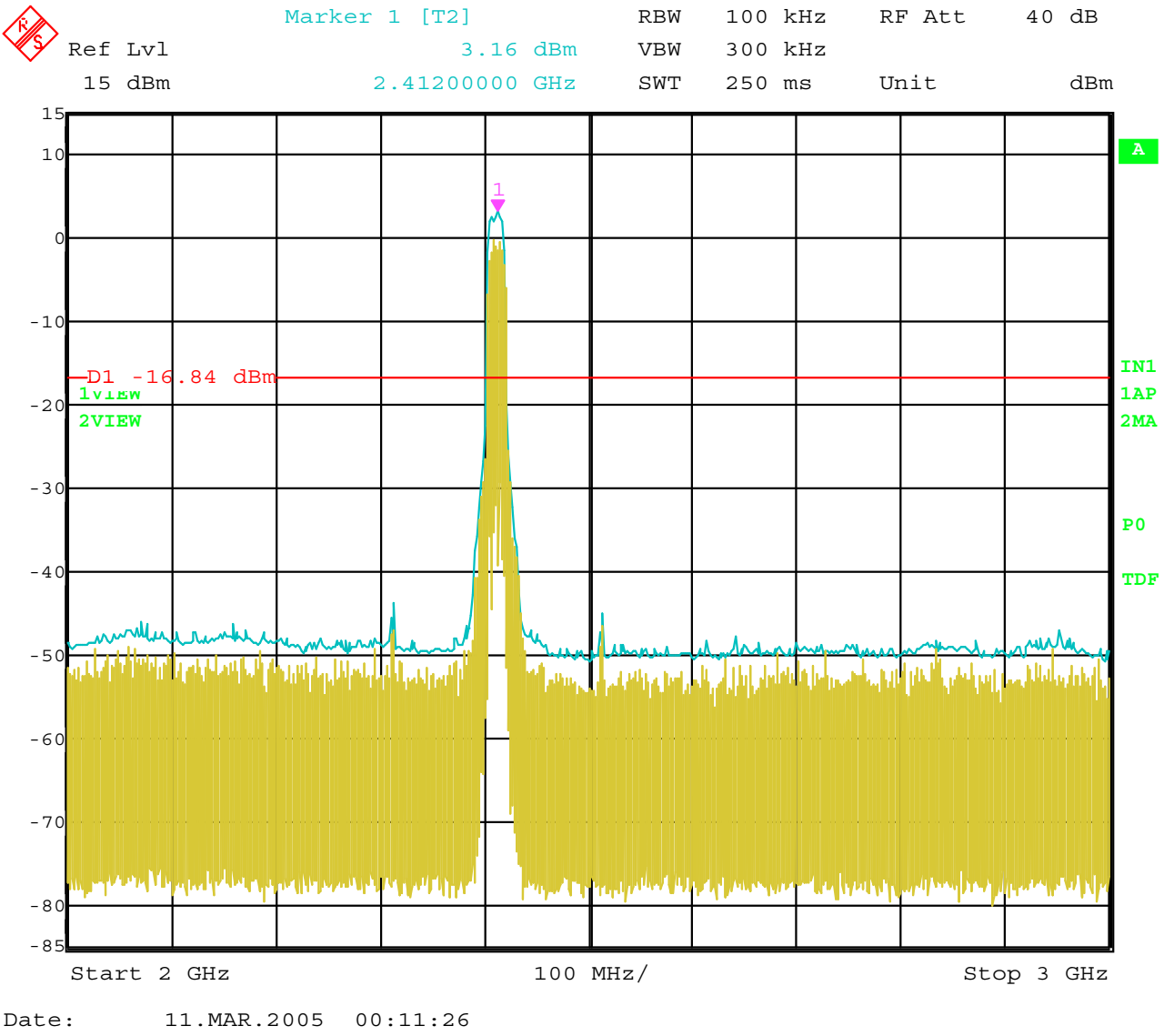
RF Antenna Conducted – Channel 11 – 802.11 b Mode – Hitachi Antenna – 3 GHz to 10 GHz



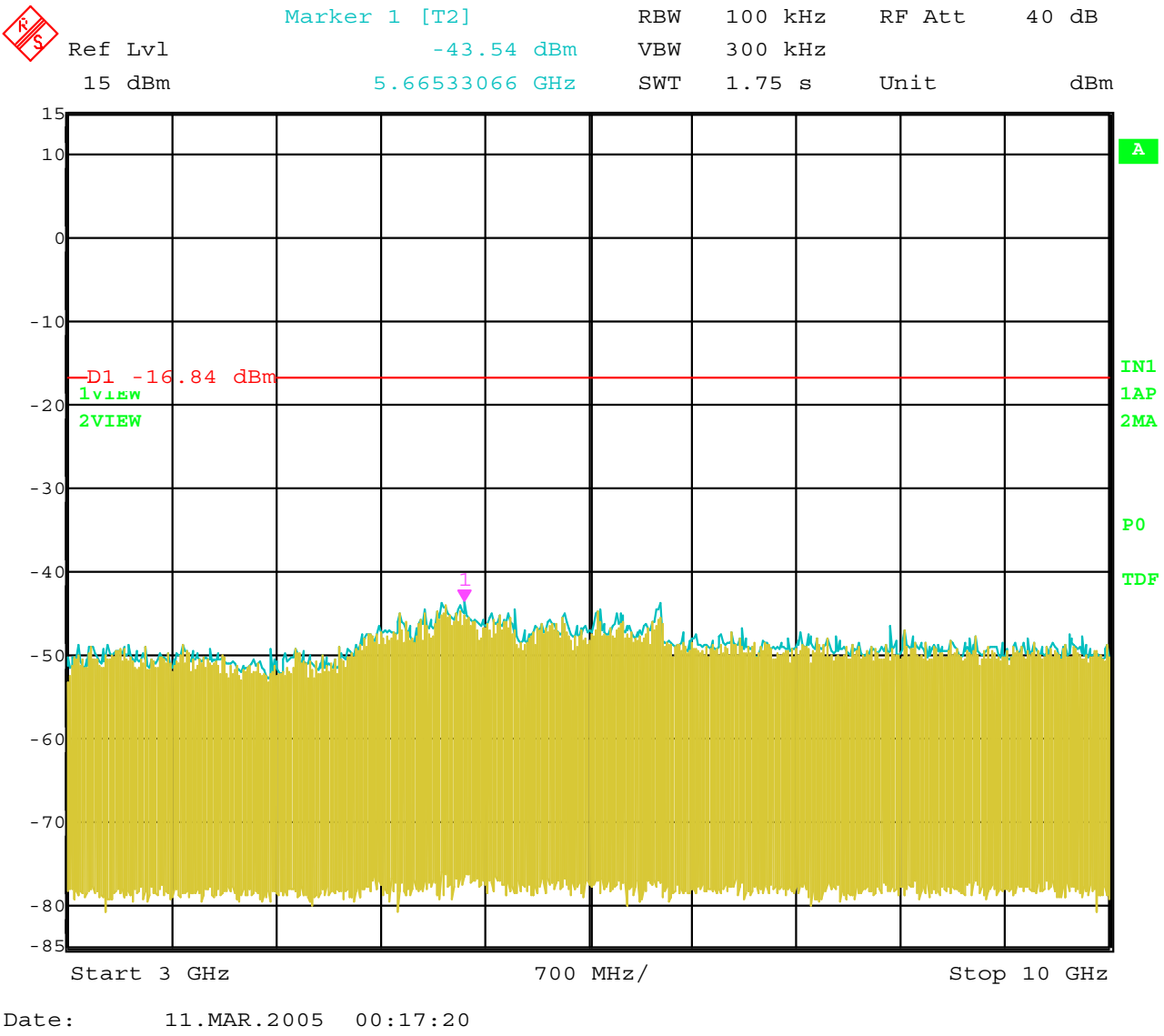
RF Antenna Conducted – Channel 11 – 802.11 b Mode – Hitachi Antenna – 10 GHz to 25 GHz



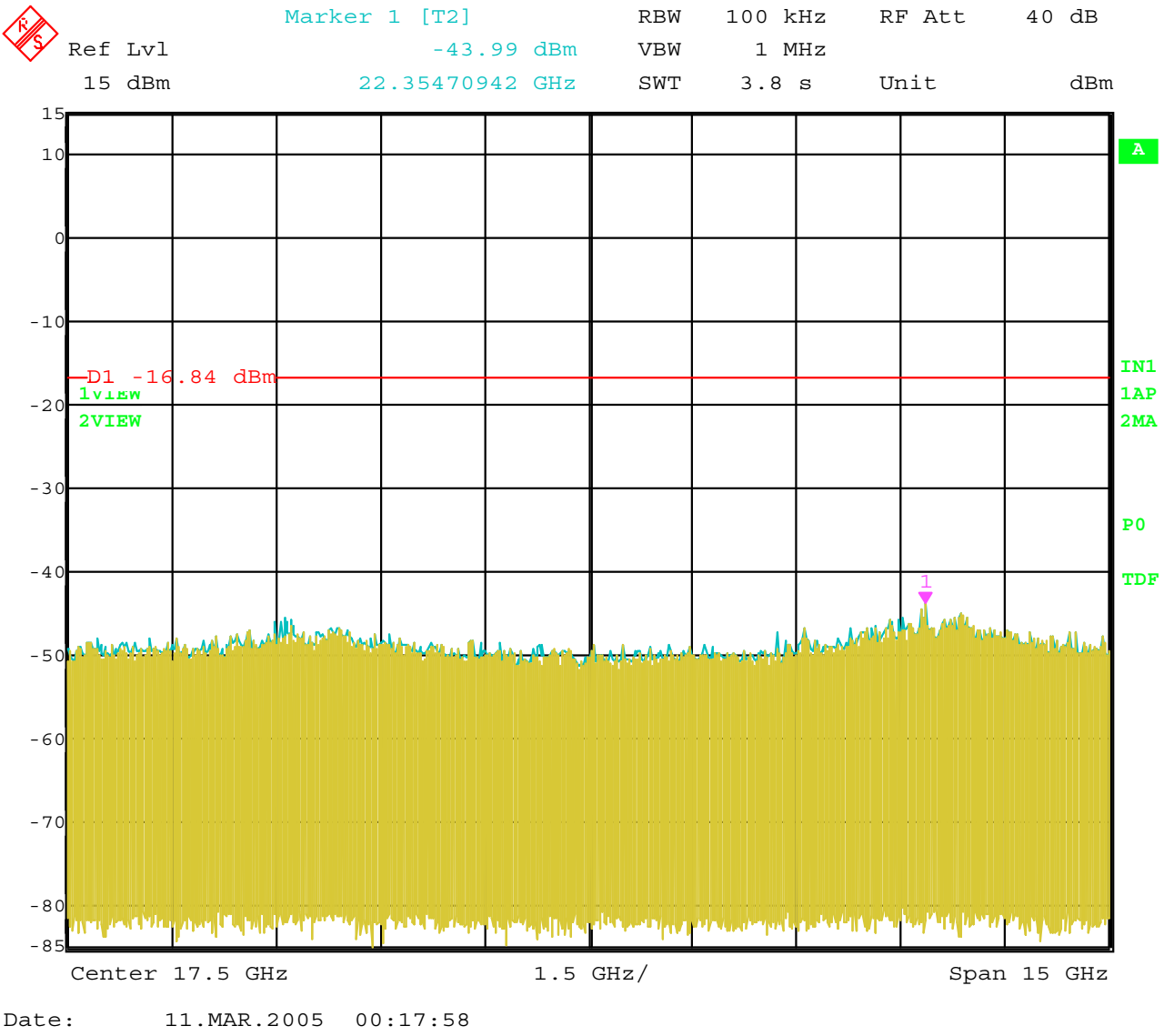
RF Antenna Conducted – Channel 1 – 802.11 g Mode – Hitachi Antenna – 2 MHz to 2 GHz



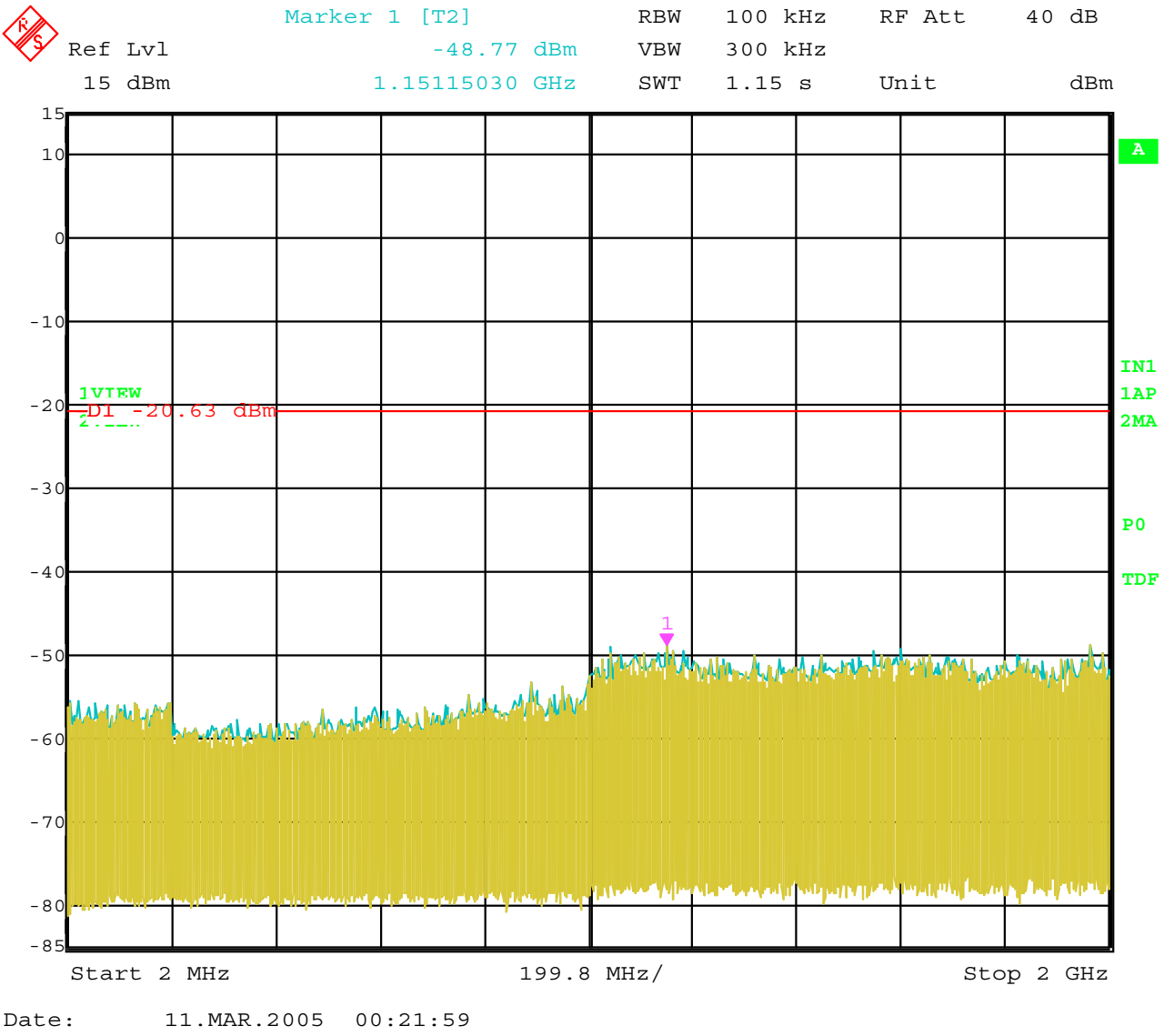
RF Antenna Conducted – Channel 1 – 802.11 g Mode – Hitachi Antenna – 2 GHz to 3 GHz



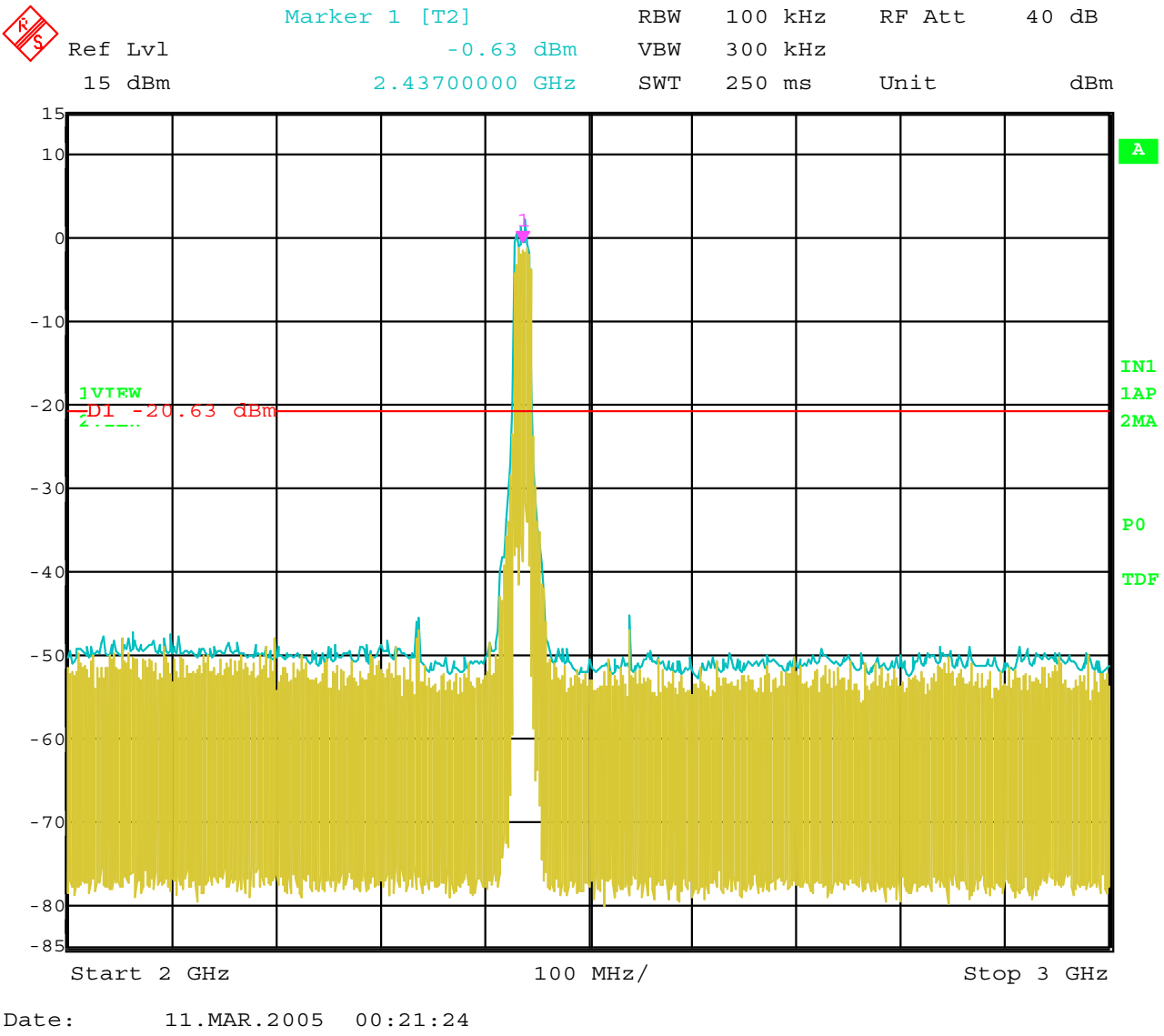
RF Antenna Conducted – Channel 1 – 802.11 g Mode – Hitachi Antenna – 3 GHz to 10 GHz



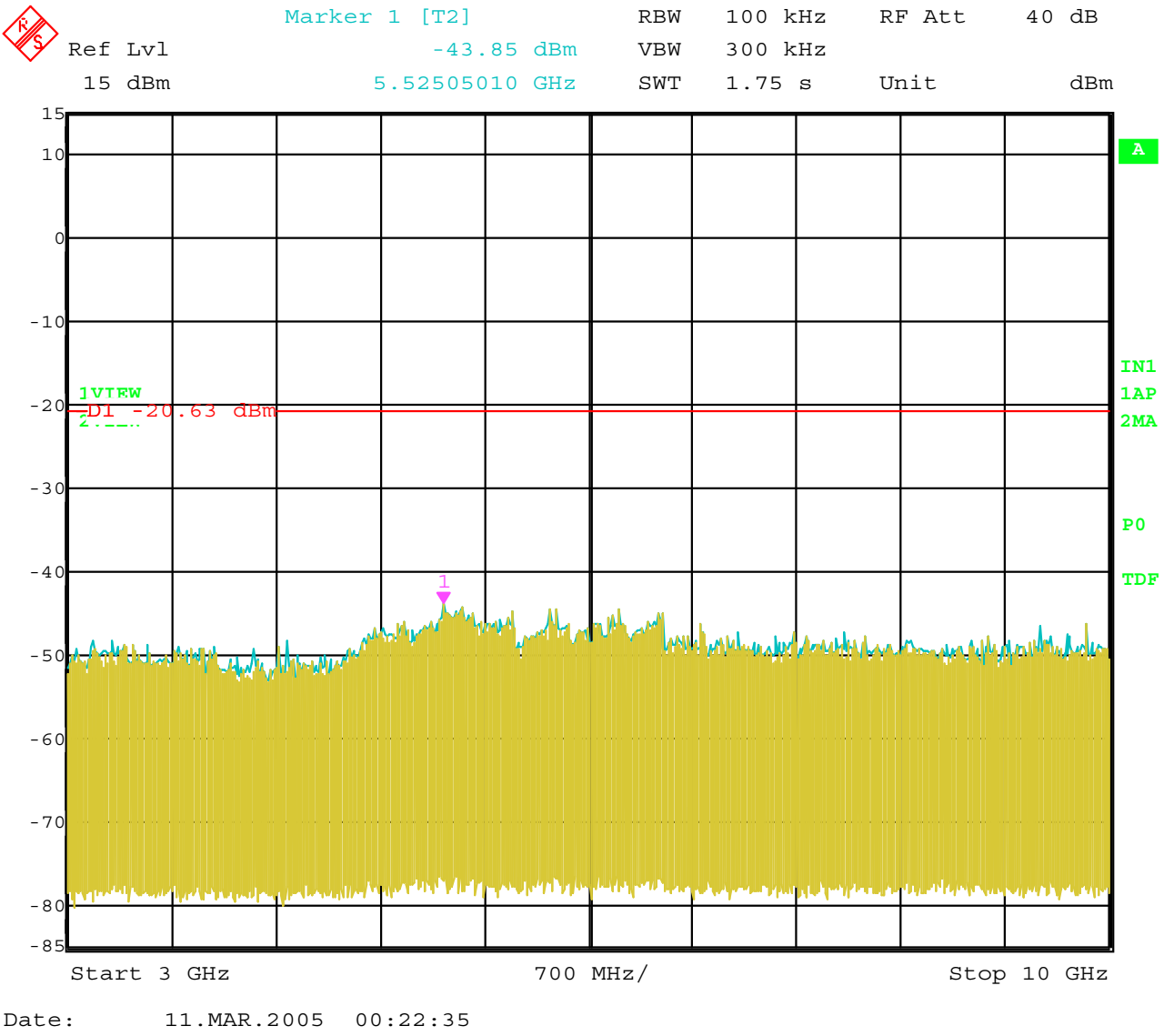
RF Antenna Conducted – Channel 1 – 802.11 g Mode – Hitachi Antenna – 10 GHz to 25 GHz



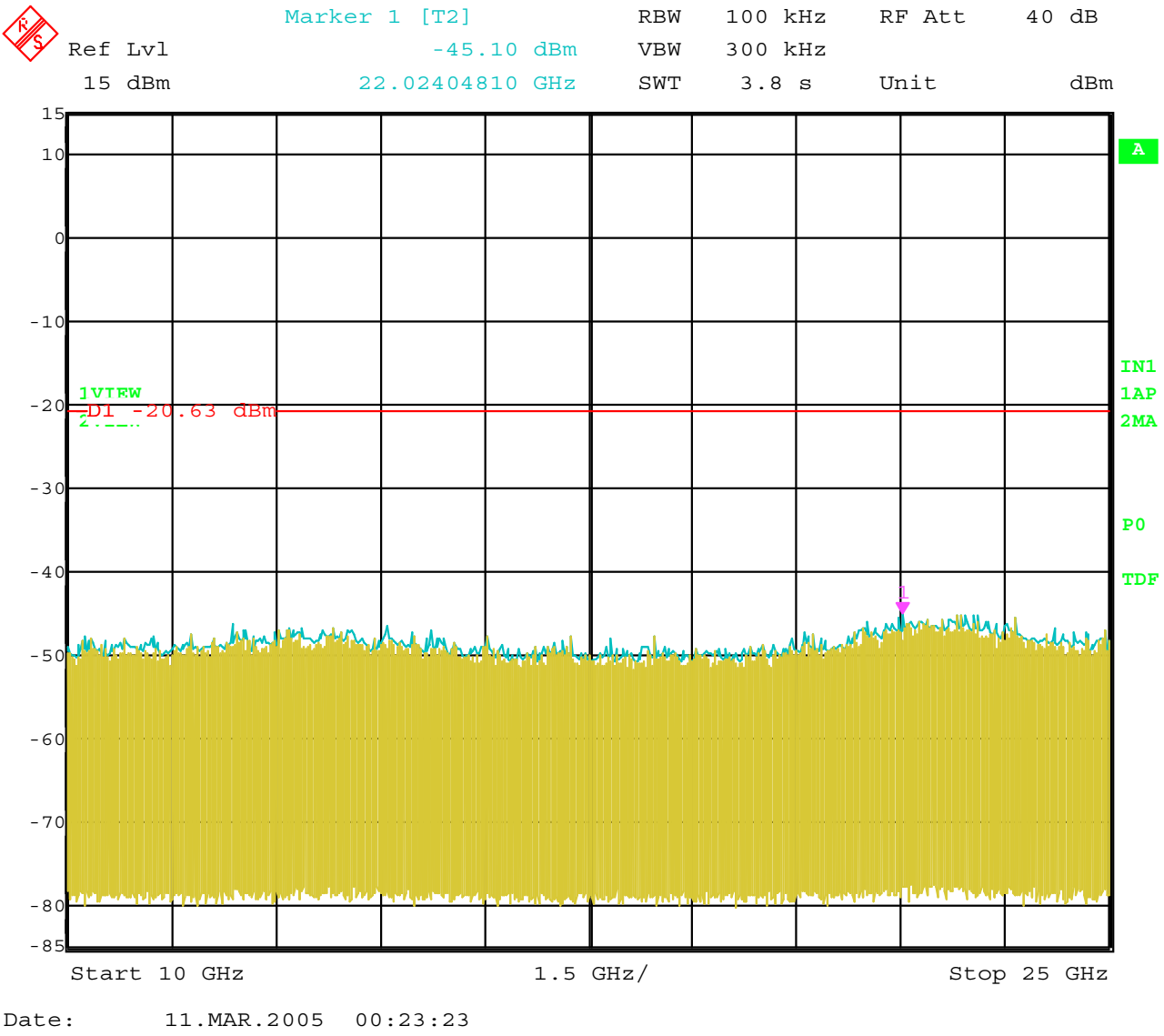
RF Antenna Conducted – Channel 6 – 802.11 g Mode – Hitachi Antenna – 2 MHz to 2 GHz



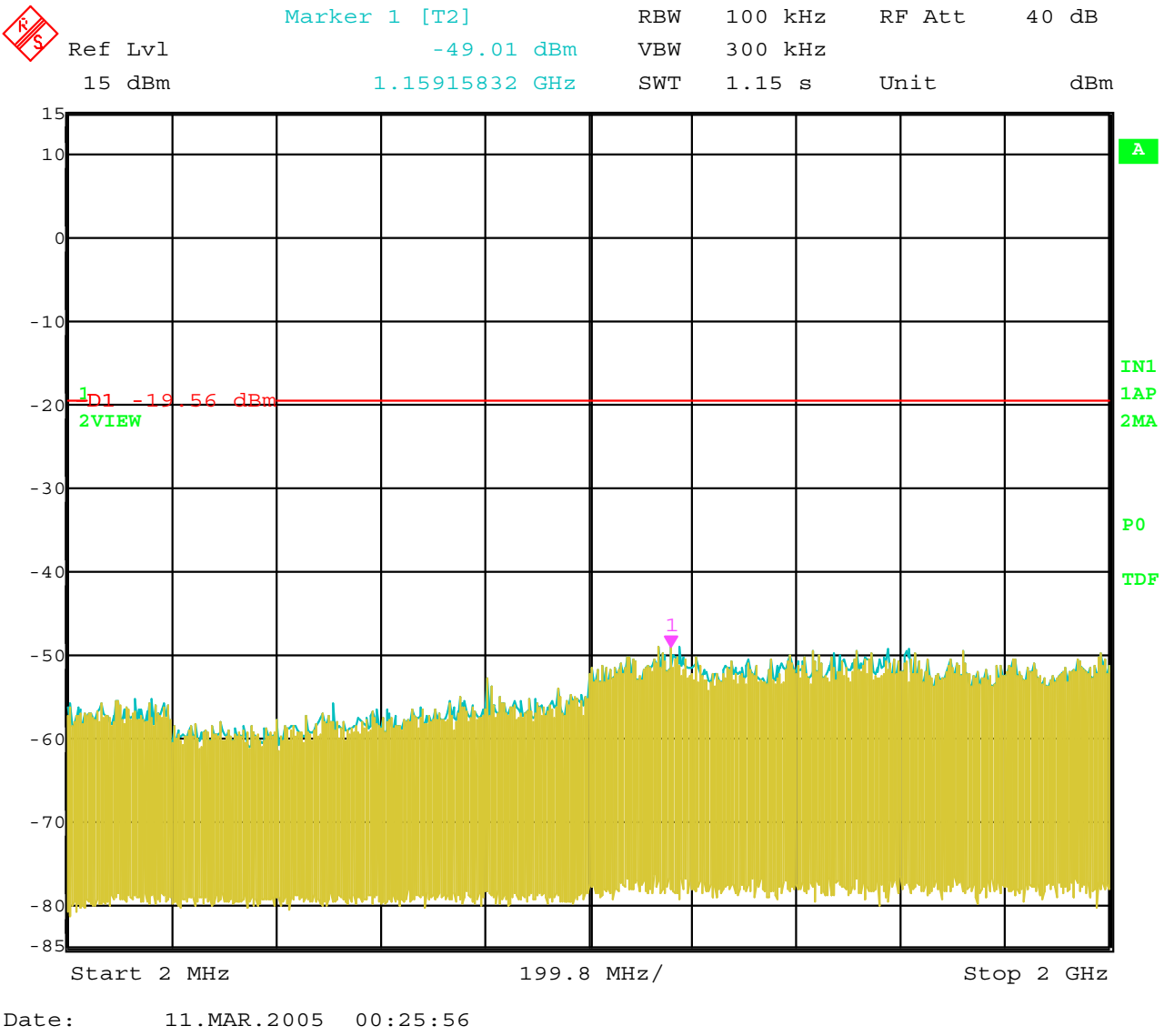
RF Antenna Conducted – Channel 6 – 802.11 g Mode – Hitachi Antenna – 2 GHz to 3 GHz



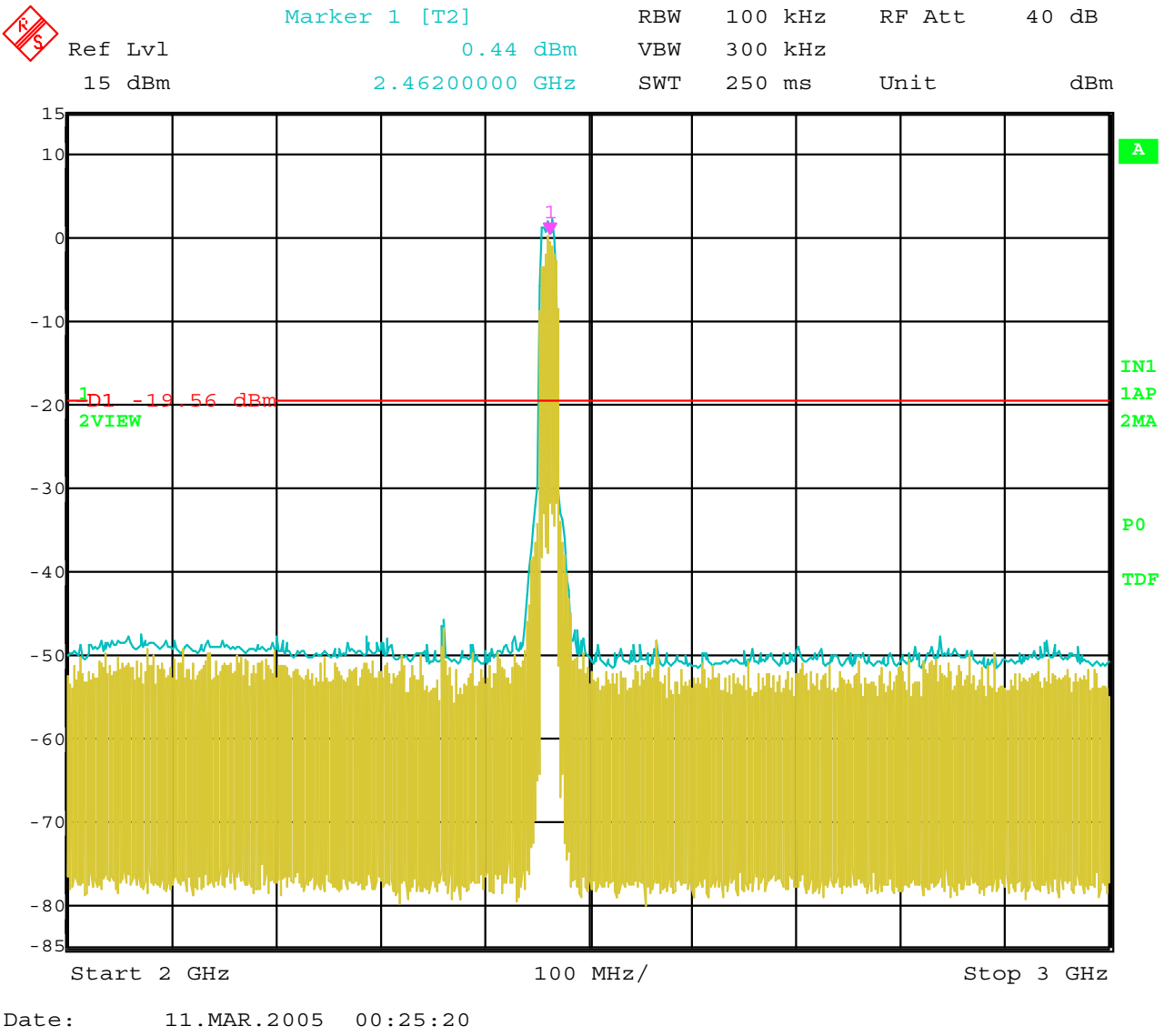
RF Antenna Conducted – Channel 6 – 802.11 g Mode – Hitachi Antenna – 3 GHz to 10 GHz



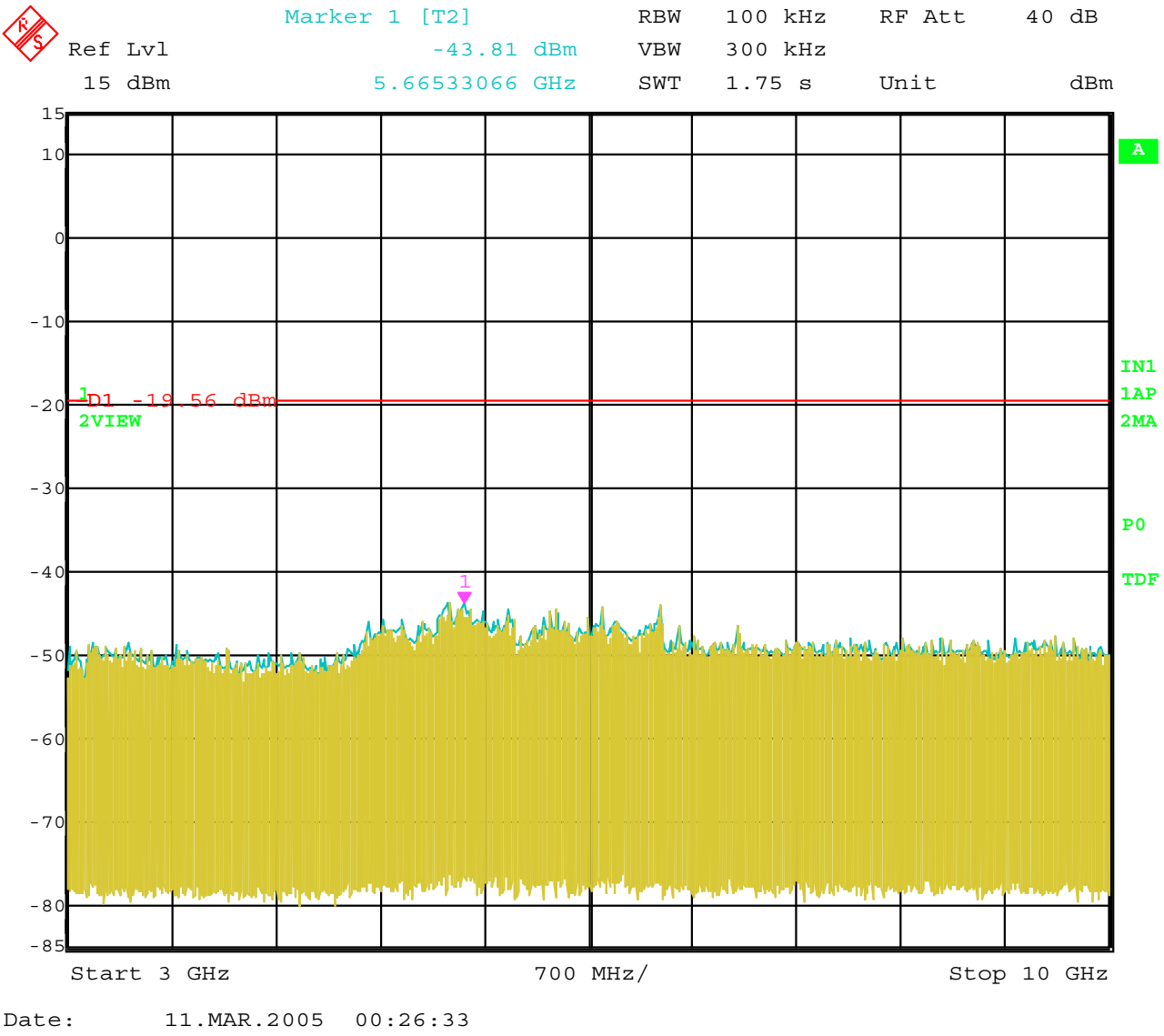
RF Antenna Conducted – Channel 6 – 802.11 g Mode – Hitachi Antenna – 10 GHz to 25 GHz



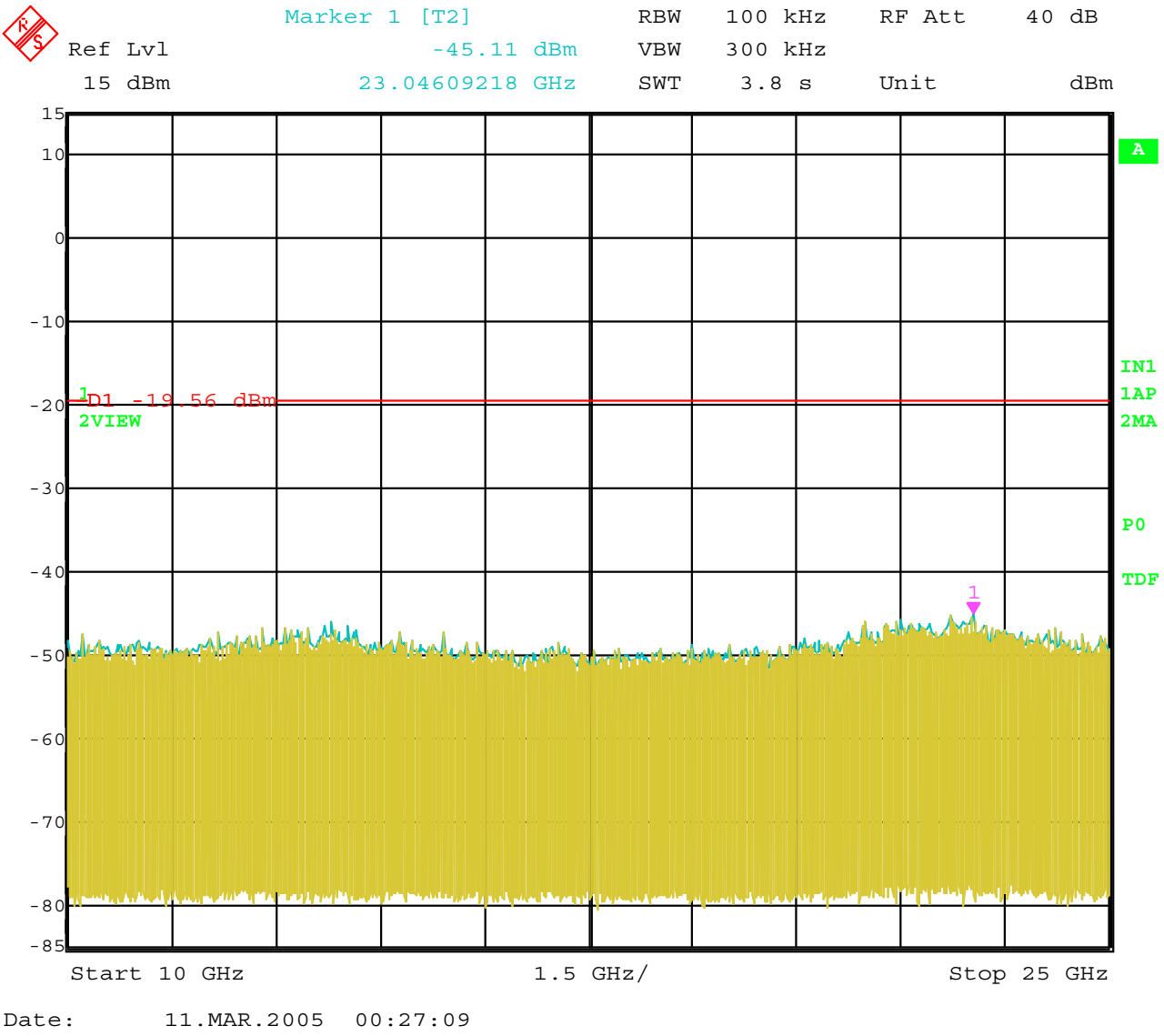
RF Antenna Conducted – Channel 11 – 802.11 g Mode – Hitachi Antenna – 2 MHz to 2 GHz



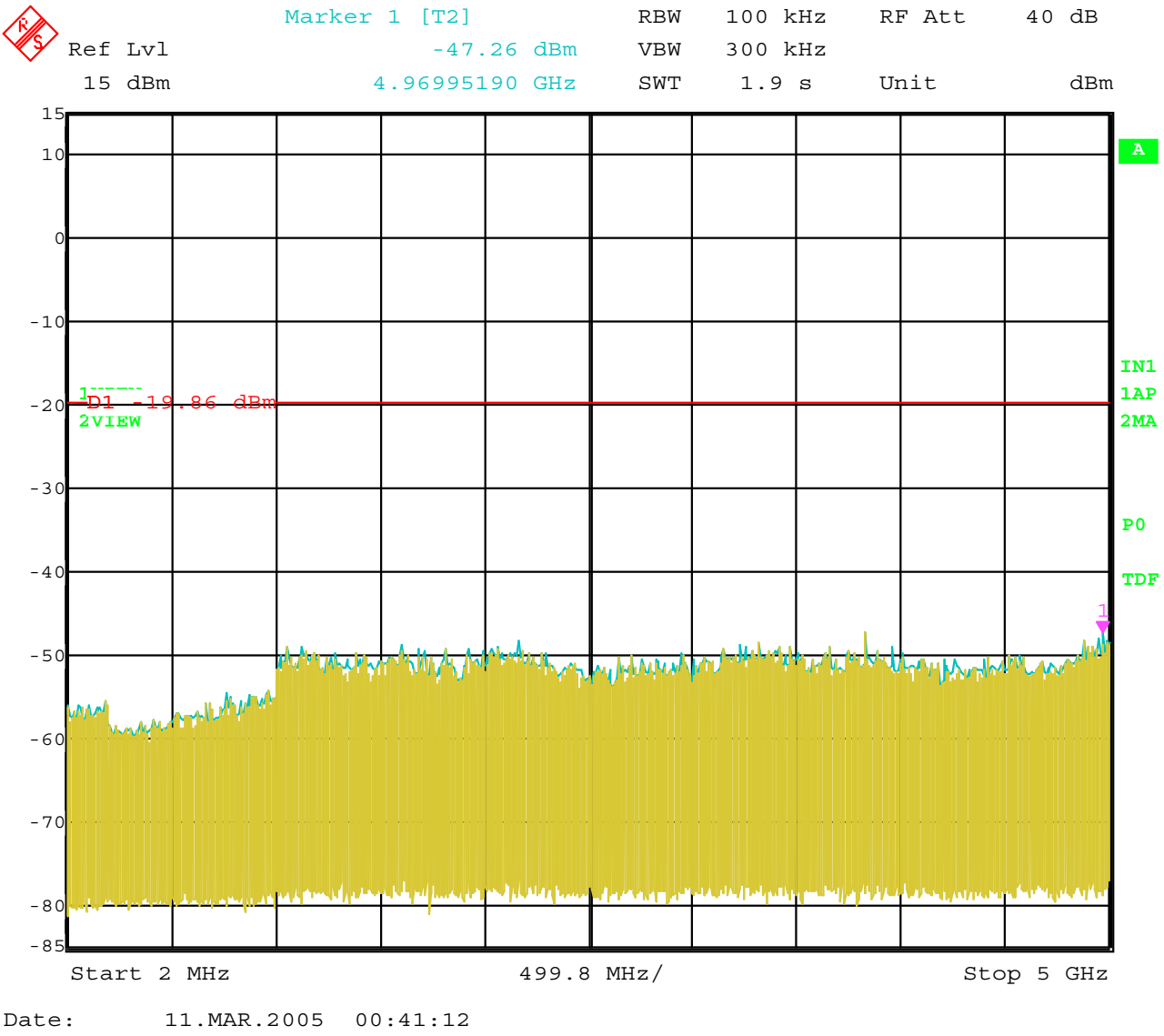
RF Antenna Conducted – Channel 11 – 802.11 g Mode – Hitachi Antenna – 2 GHz to 3 GHz



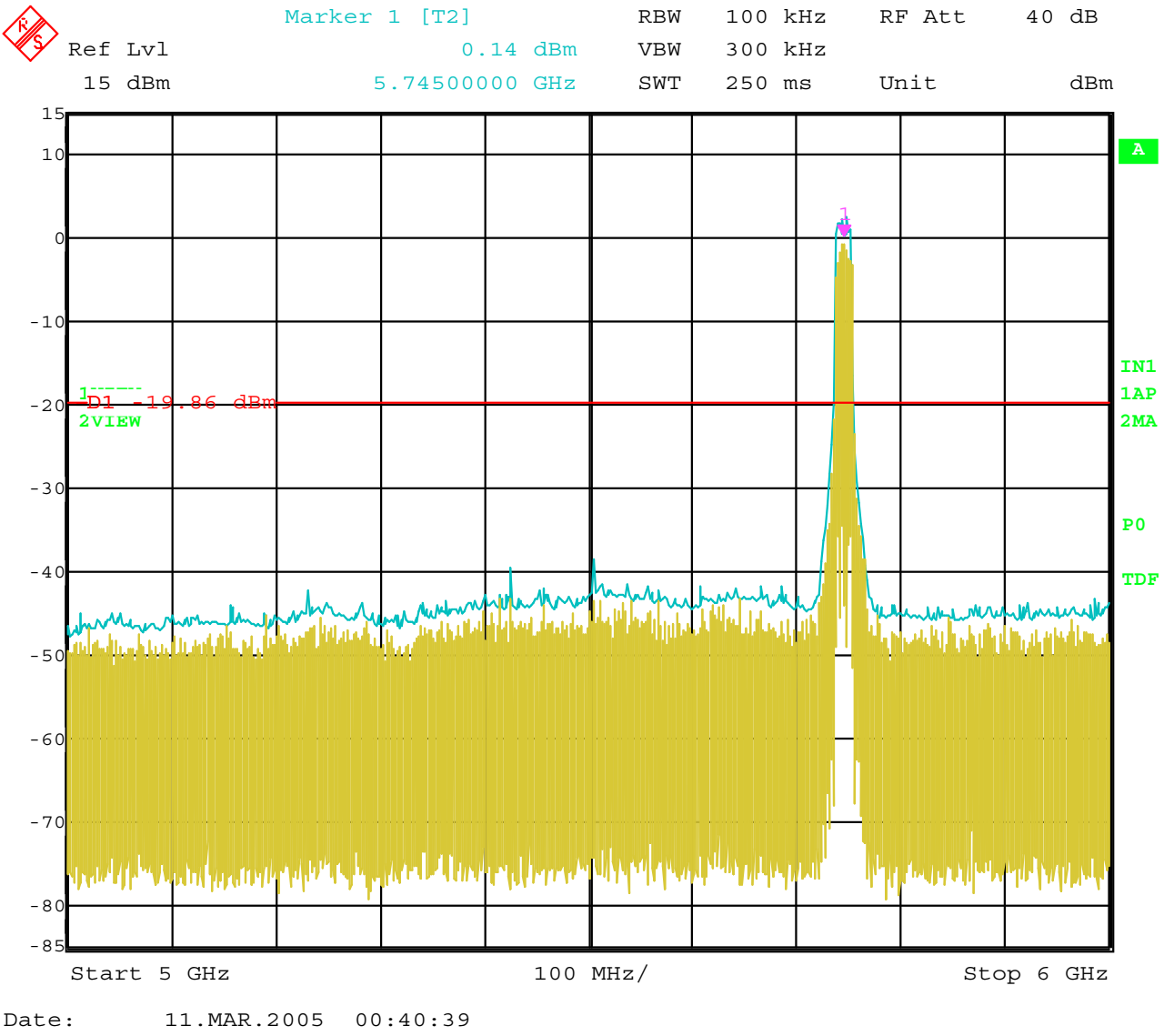
RF Antenna Conducted – Channel 11 – 802.11 g Mode – Hitachi Antenna – 3 GHz to 10 GHz



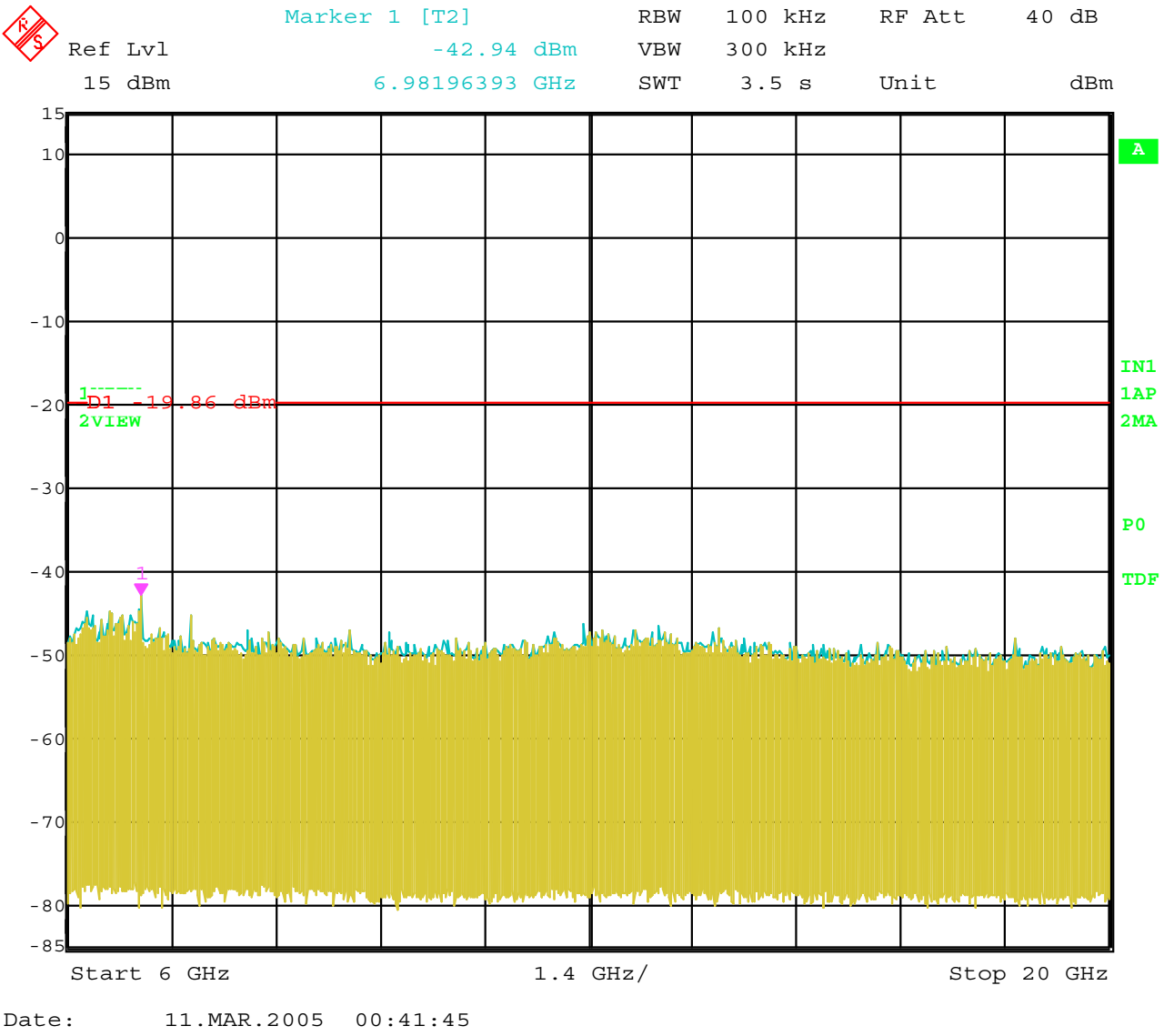
RF Antenna Conducted – Channel 11 – 802.11 g Mode – Hitachi Antenna – 10 GHz to 25 GHz



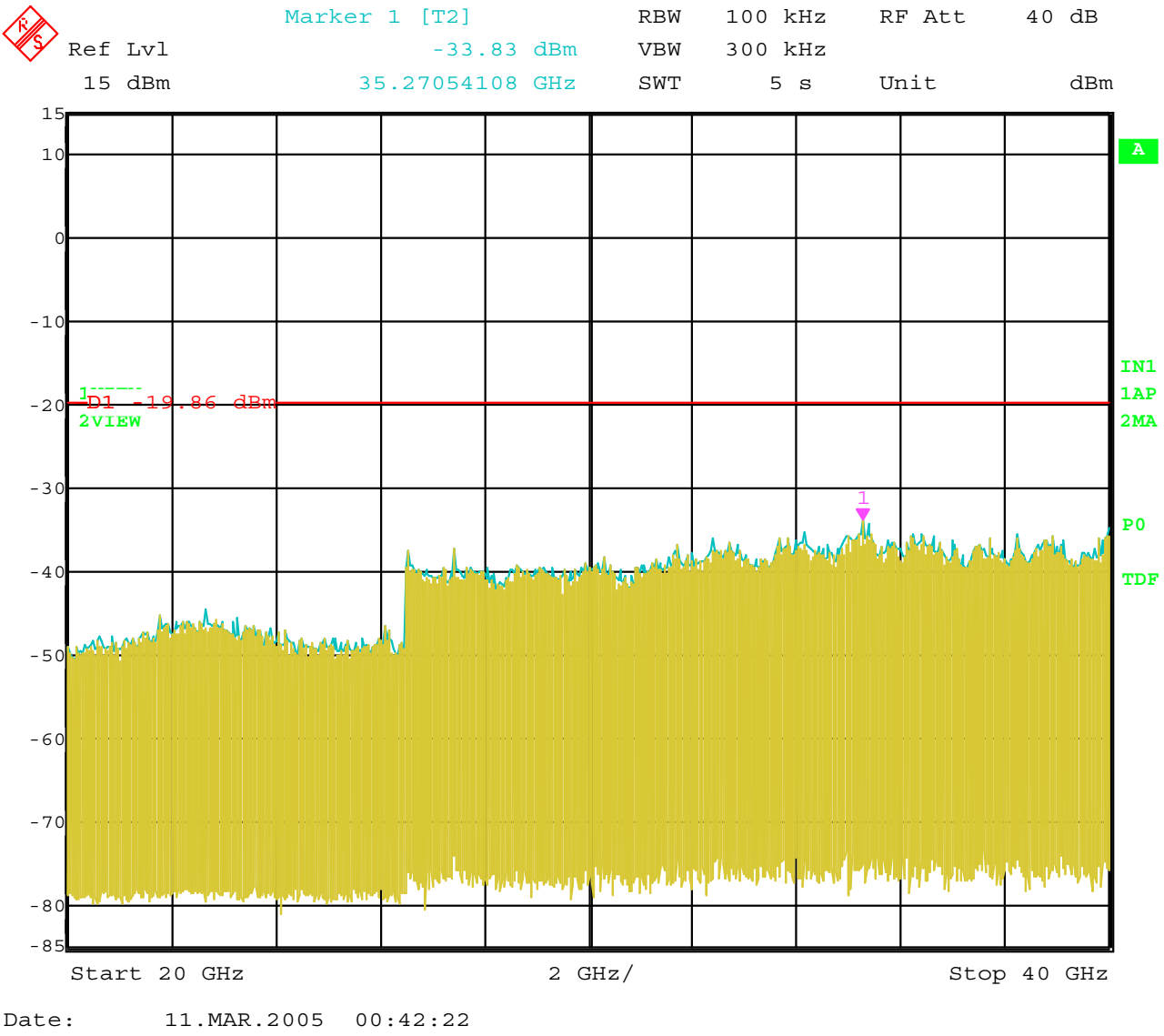
RF Antenna Conducted – Channel 149 – 802.11 a Mode – Hitachi Antenna – 2 MHz to 5 GHz



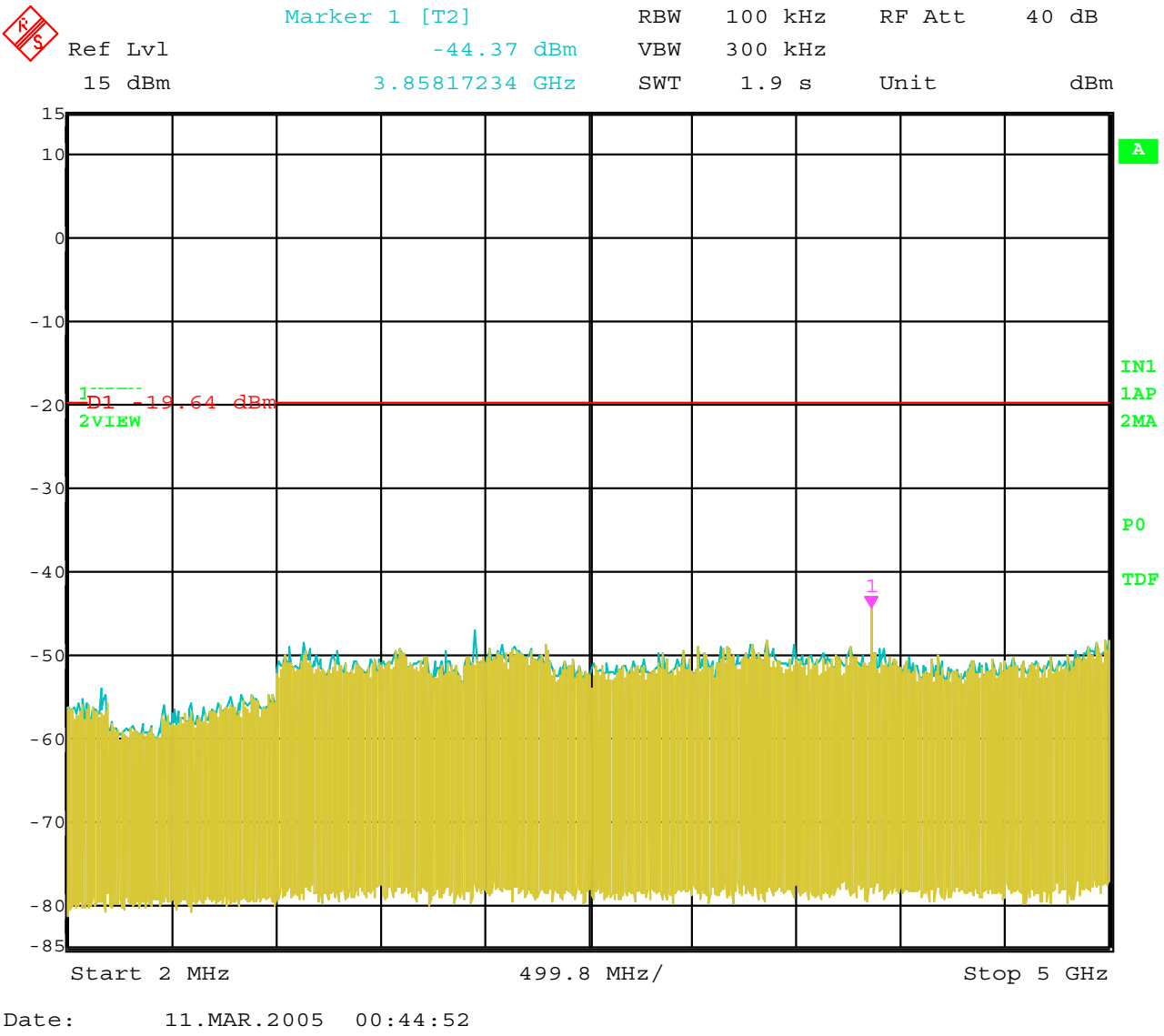
RF Antenna Conducted – Channel 149 – 802.11 a Mode – Hitachi Antenna – 5 GHz to 6 GHz



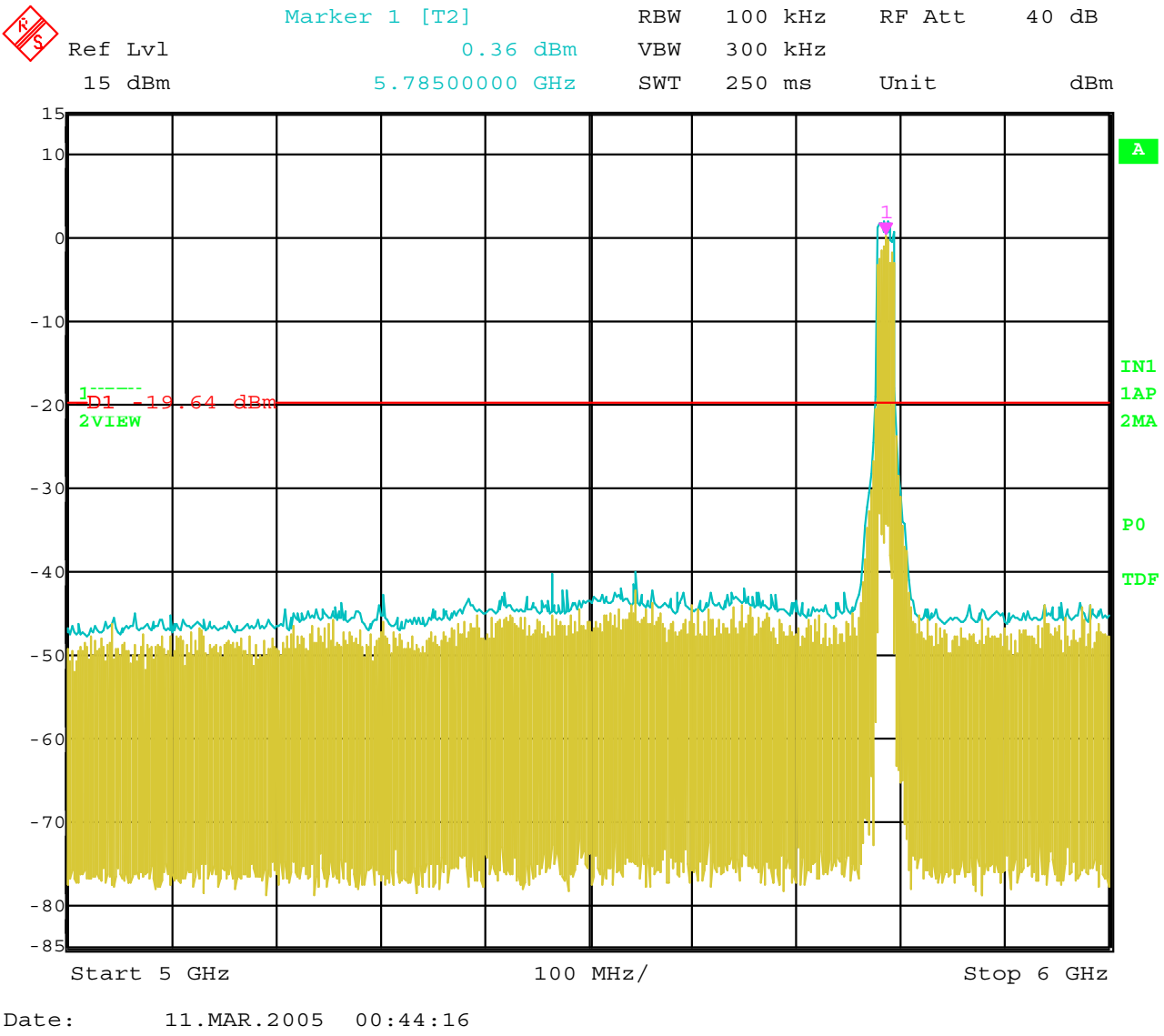
RF Antenna Conducted – Channel 149 – 802.11 a Mode – Hitachi Antenna – 6 GHz to 20 GHz



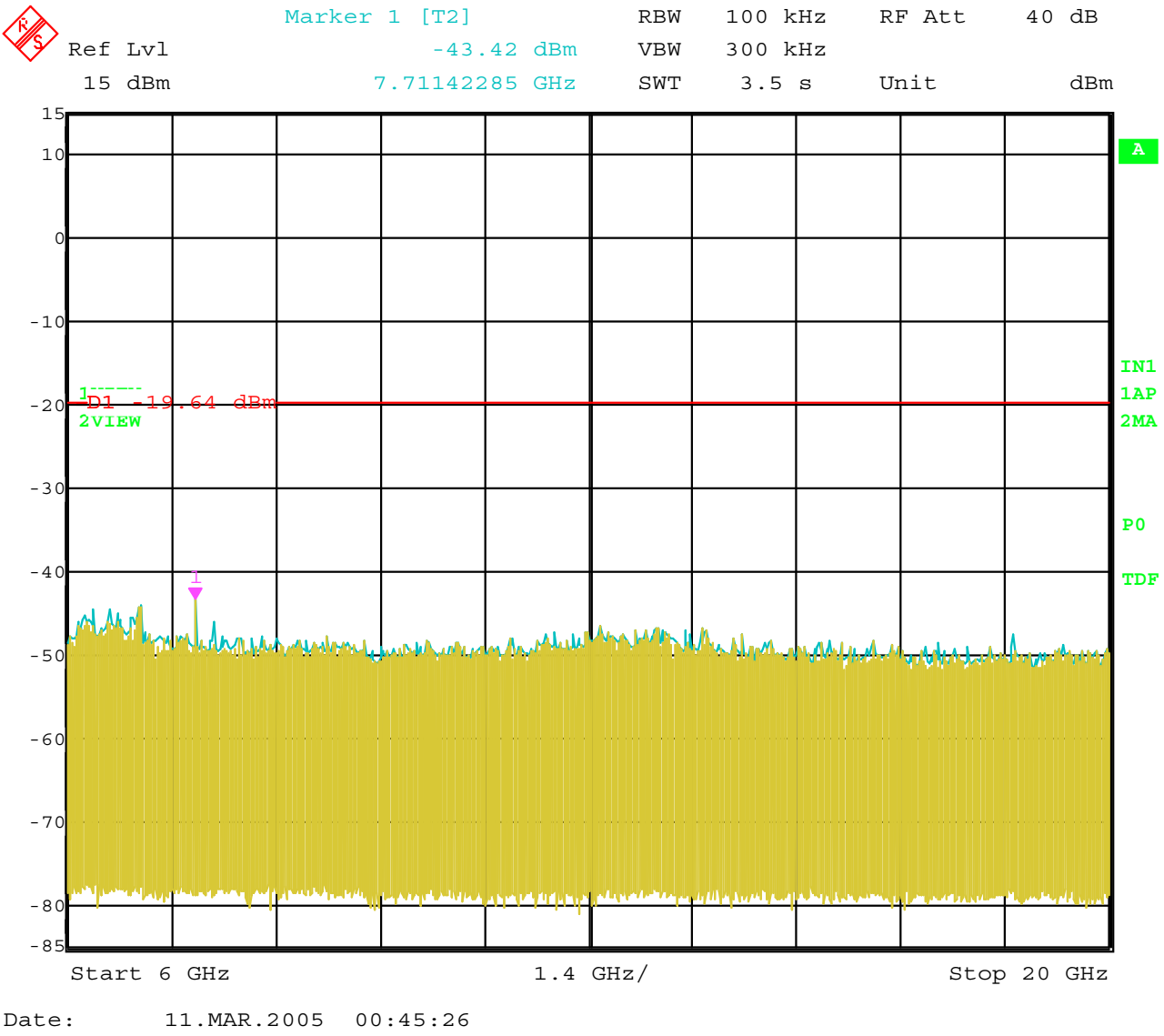
RF Antenna Conducted – Channel 149 – 802.11 a Mode – Hitachi Antenna – 20 GHz to 40 GHz



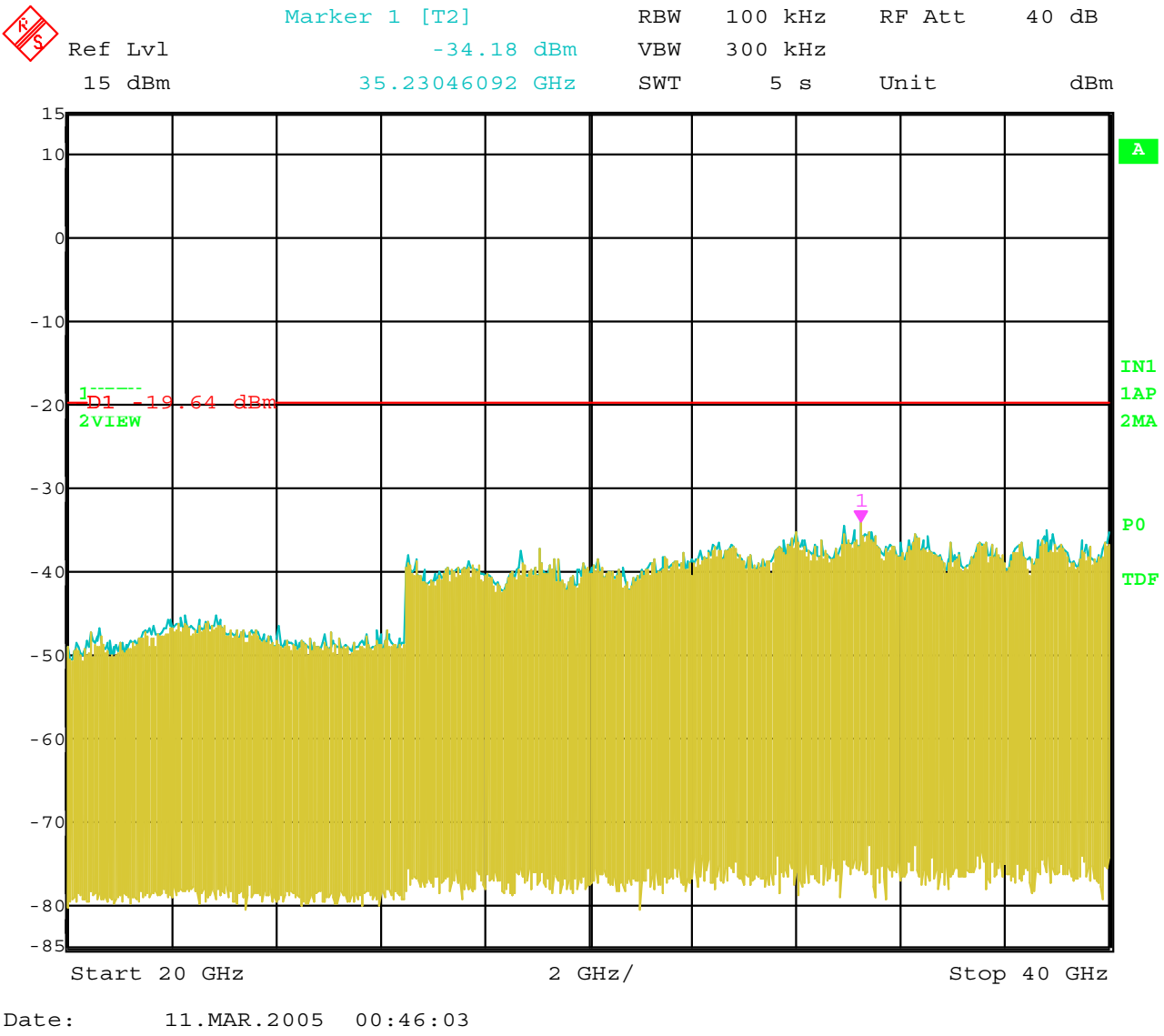
RF Antenna Conducted – Channel 157 – 802.11 a Mode – Hitachi Antenna – 2 MHz to 5 GHz



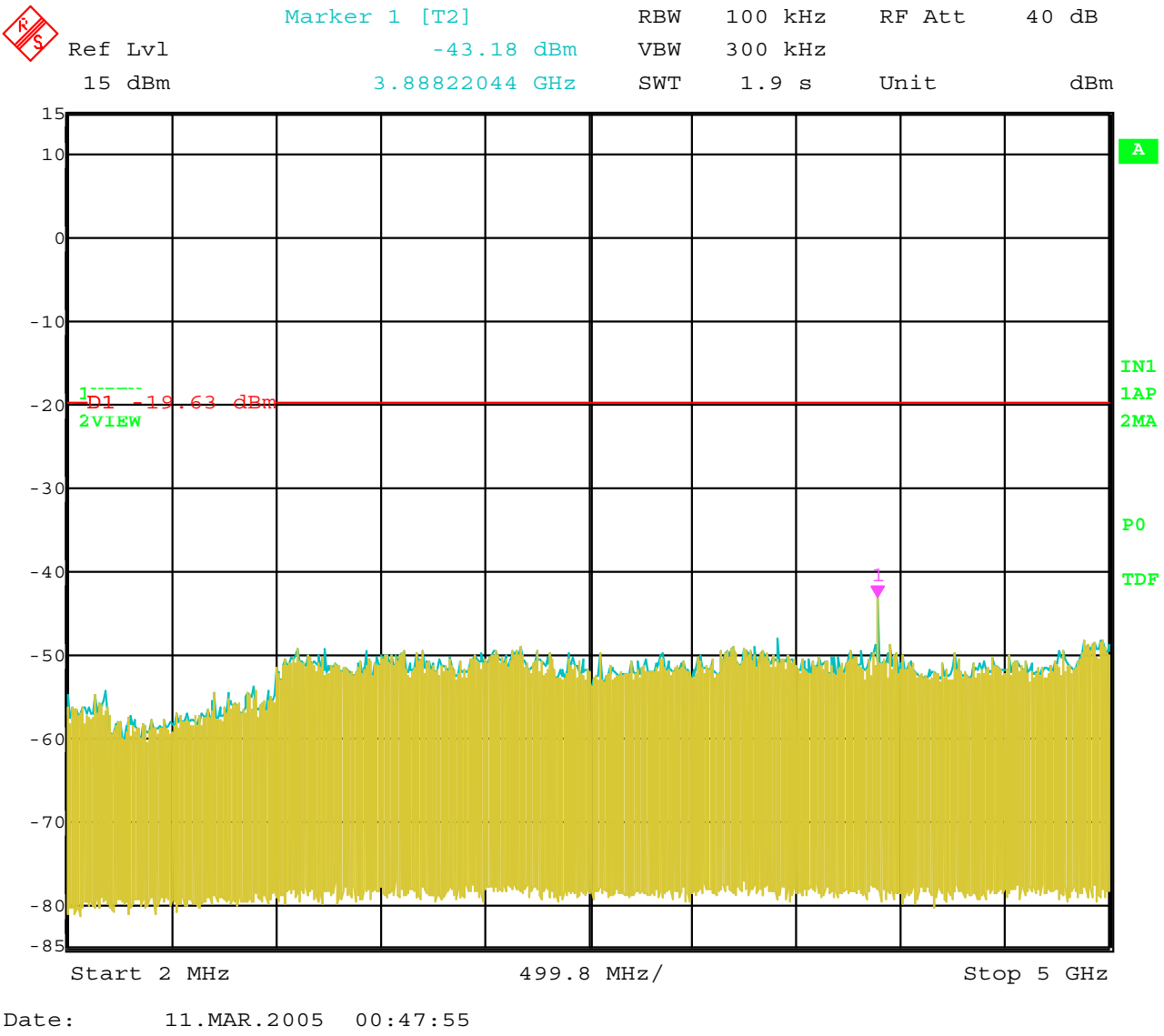
RF Antenna Conducted – Channel 157 – 802.11 a Mode – Hitachi Antenna – 5 GHz to 6 GHz



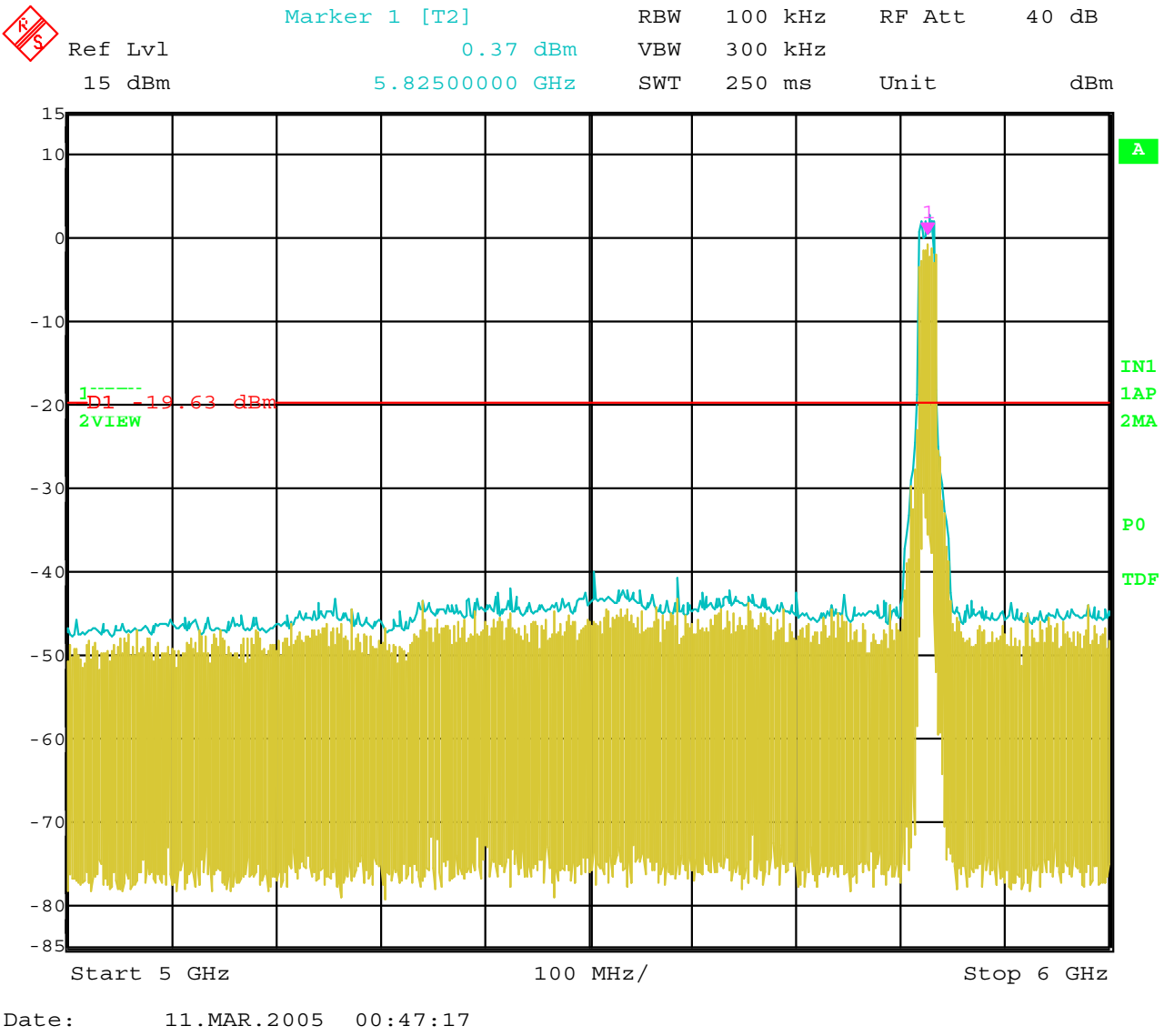
RF Antenna Conducted – Channel 157 – 802.11 a Mode – Hitachi Antenna – 6 GHz to 20 GHz



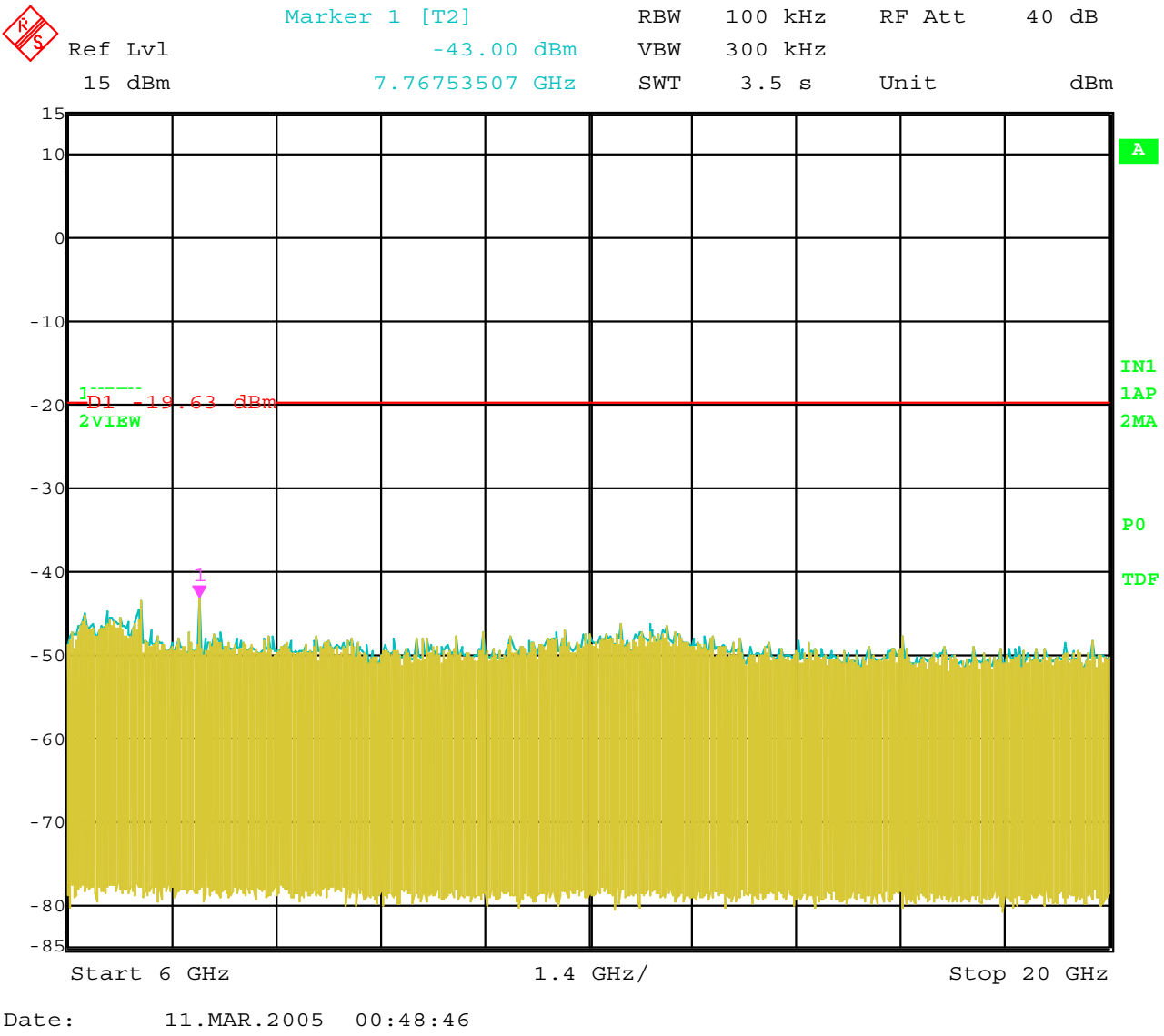
RF Antenna Conducted – Channel 157 – 802.11 a Mode – Hitachi Antenna – 20 GHz to 40 GHz



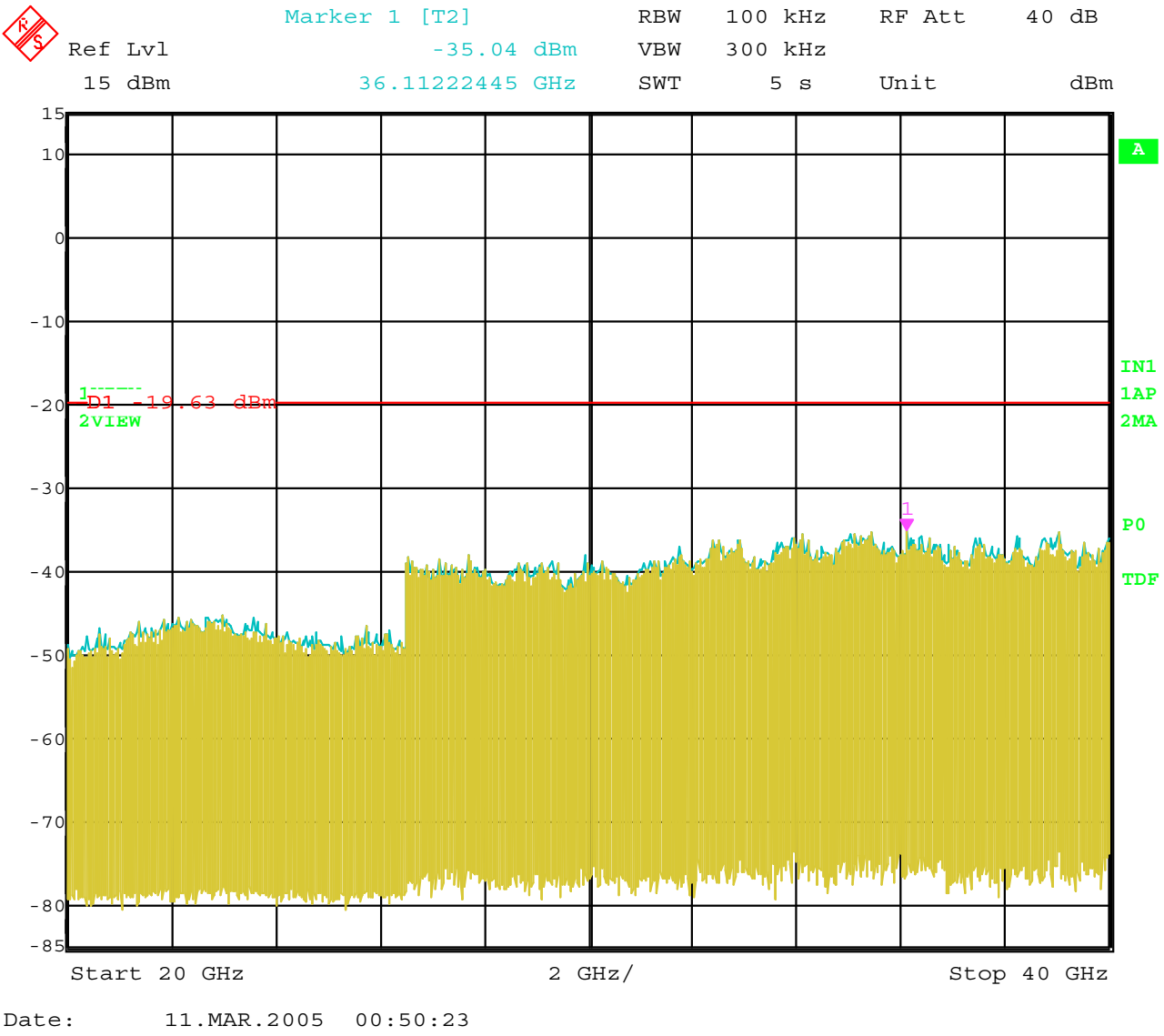
RF Antenna Conducted – Channel 165 – 802.11 a Mode – Hitachi Antenna – 2 MHz to 5 GHz



RF Antenna Conducted – Channel 165 – 802.11 a Mode – Hitachi Antenna – 5 GHz to 6 GHz



RF Antenna Conducted – Channel 165 – 802.11 a Mode – Hitachi Antenna – 6 GHz to 20 GHz



RF Antenna Conducted – Channel 165 – 802.11 a Mode – Hitachi Antenna – 20 GHz to 40 GHz

BAND EDGES

DATA SHEETS

FCC 15.247

Intel Corporation — Date: 3/10/05

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

Model: WM3A2915ABG — 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 : 15.0 Peak Power: 17.72 dBm Avg. Power: 15.74 dBm

Channel 6 - 802.11 b Mode Gain : 16.0 Peak Power: 18.96 dBm Avg. Power: 17.01 dBm

Channel 11 - 802.11 b Mode Gain : 16.5 Peak Power: 19.32 dBm Avg. Power: 17.36 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	100.93	V	--	--	Peak	1.47	270	Fundamental of Channel 1
2412	97.36	V	--	--	Avg	1.47	270	@ 3 meters
2390	51.34	V	74	-22.66	Peak	1.47	270	**No** Marker Delta Method
2390	38.62	V	54	-15.38	Avg	1.47	270	Method Used
2388.5	53.11	V	74	-20.89	Peak	1.47	270	**No** Marker Delta Method
2387.4	40.5	V	54	-13.5	Avg	1.47	270	Method Used
2437	104.47	V	--	--	Peak	2.43	225	Fundamental of Channel 6
2437	100.75	V	--	--	Avg	2.43	225	@ 3 meters
2462	105.1	V	--	--	Peak	2.37	135	Fundamental of Channel 11
2462	101.79	V	--	--	Avg	2.37	135	@ 3 meters
2483.5	51.49	V	74	-22.51	Peak	2.37	135	**No** Marker Delta Method
2483.5	41.63	V	54	-12.37	Avg	2.37	135	Method Used
2485.5	55.59	V	74	-18.41	Peak	2.37	135	**No** Marker Delta Method
2485.5	46.05	V	54	-7.95	Avg	2.37	135	Method Used

FCC 15.247

Intel Corporation — Date: 3/10/05

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

Model: WM3A2915ABG — 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 : 15.0 Peak Power: 17.72 dBm Avg. Power: 15.74 dBm

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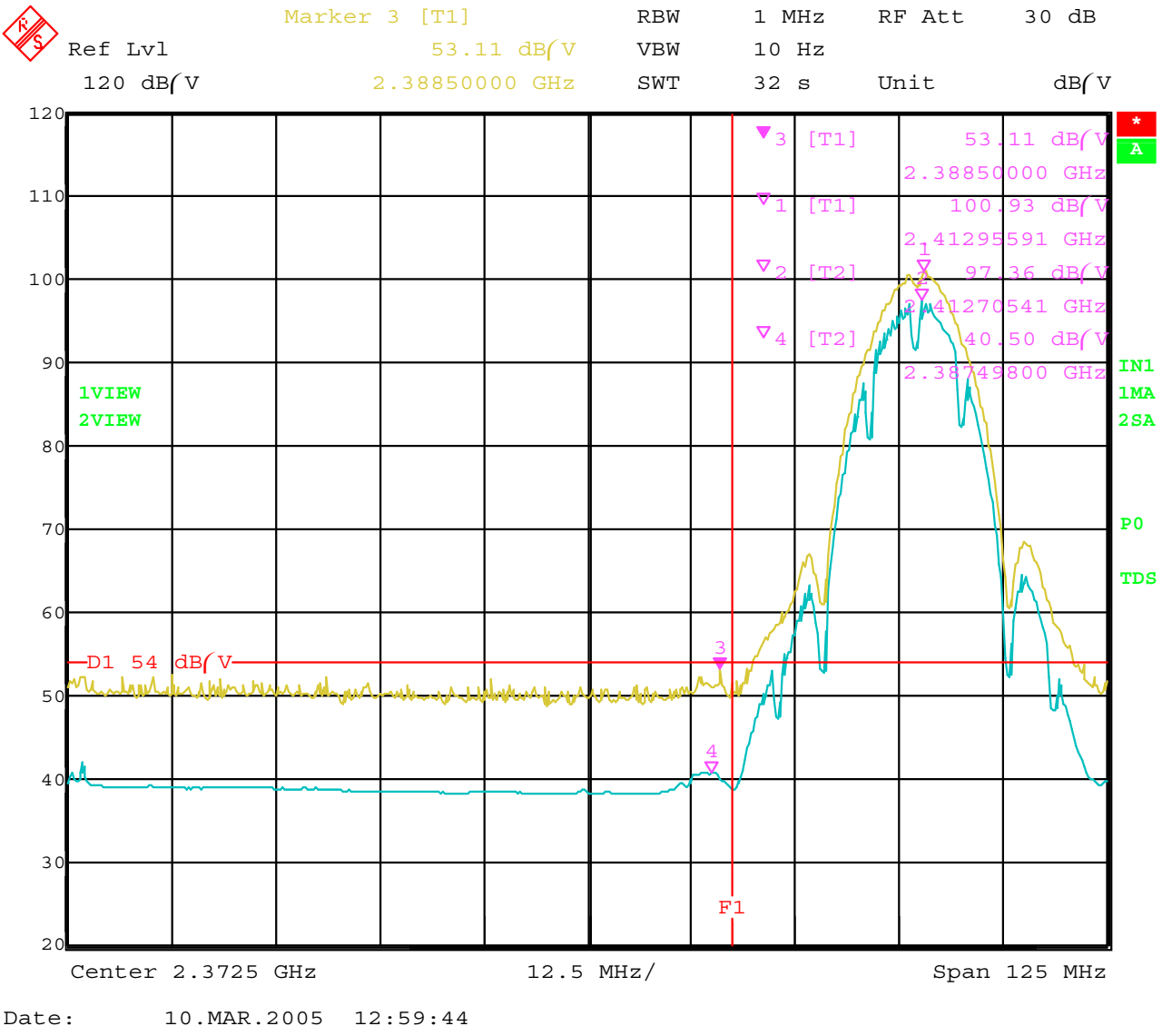
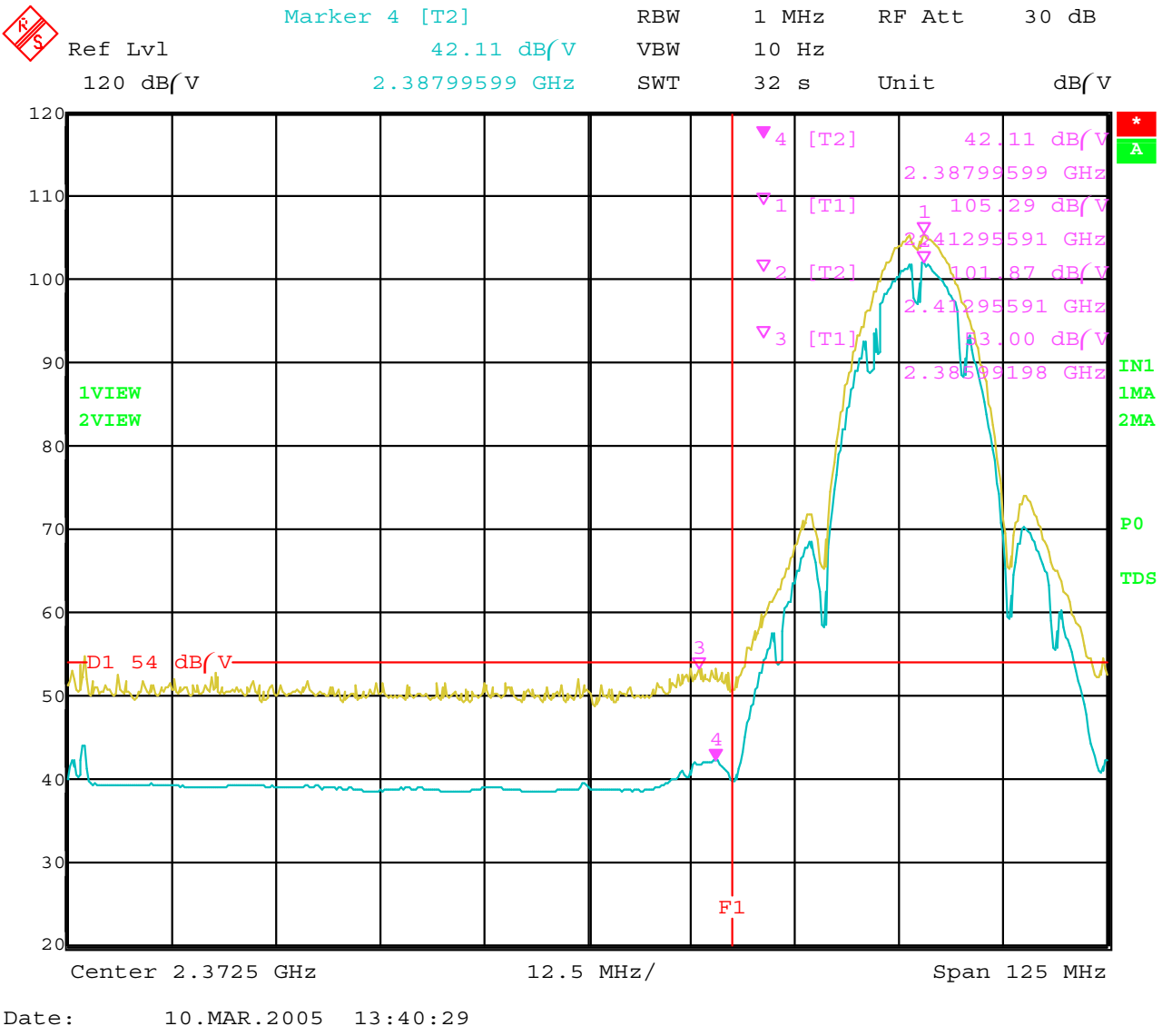
Channel 11 - 802.11 b Mode Gain : 16.5 Peak Power: 19.32 dBm Avg. Power: 17.36 dBm

Transmit Mode

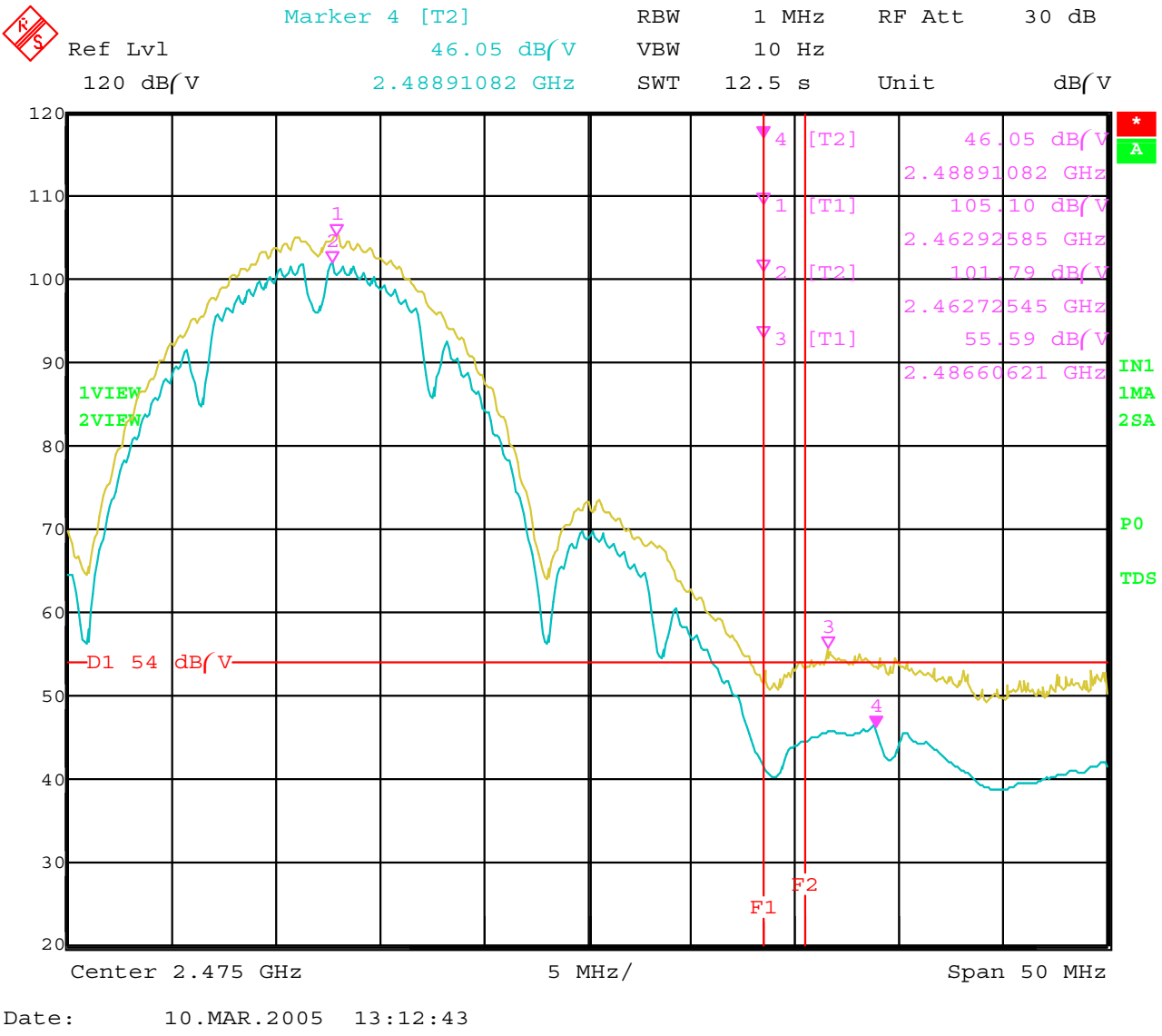
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	105.35	H	--	--	Peak	2.19	315	Fundamental of Channel 1
2412	101.87	H	--	--	Avg	2.19	315	@ 3 meters
2390	50.65	H	74	-23.35	Peak	2.19	315	**No** Marker Delta Method
2390	39.7	H	54	-14.3	Avg	2.19	315	Method Used
2385.9	53	H	74	-21	Peak	2.19	315	**No** Marker Delta Method
2387.99	42.11	H	54	-11.89	Avg	2.19	315	Method Used
2437	107.66	H	--	--	Peak	2.19	315	Fundamental of Channel 6
2437	103.8	H	--	--	Avg	2.19	315	@ 3 meters
2462	108.58	H	--	--	Peak	2.15	315	Fundamental of Channel 11
2462	104.99	H	--	--	Avg	2.15	315	@ 3 meters
2483.5	54.7	H	74	-19.3	Peak	2.15	315	**No** Marker Delta Method
2483.5	45.23	H	54	-8.77	Peak	2.15	315	Method Used
2486.7	58.35	H	74	-15.65	Peak	2.15	315	**No** Marker Delta Method
2488.81	50.63	H	54	-3.37	Peak	2.15	315	Method Used



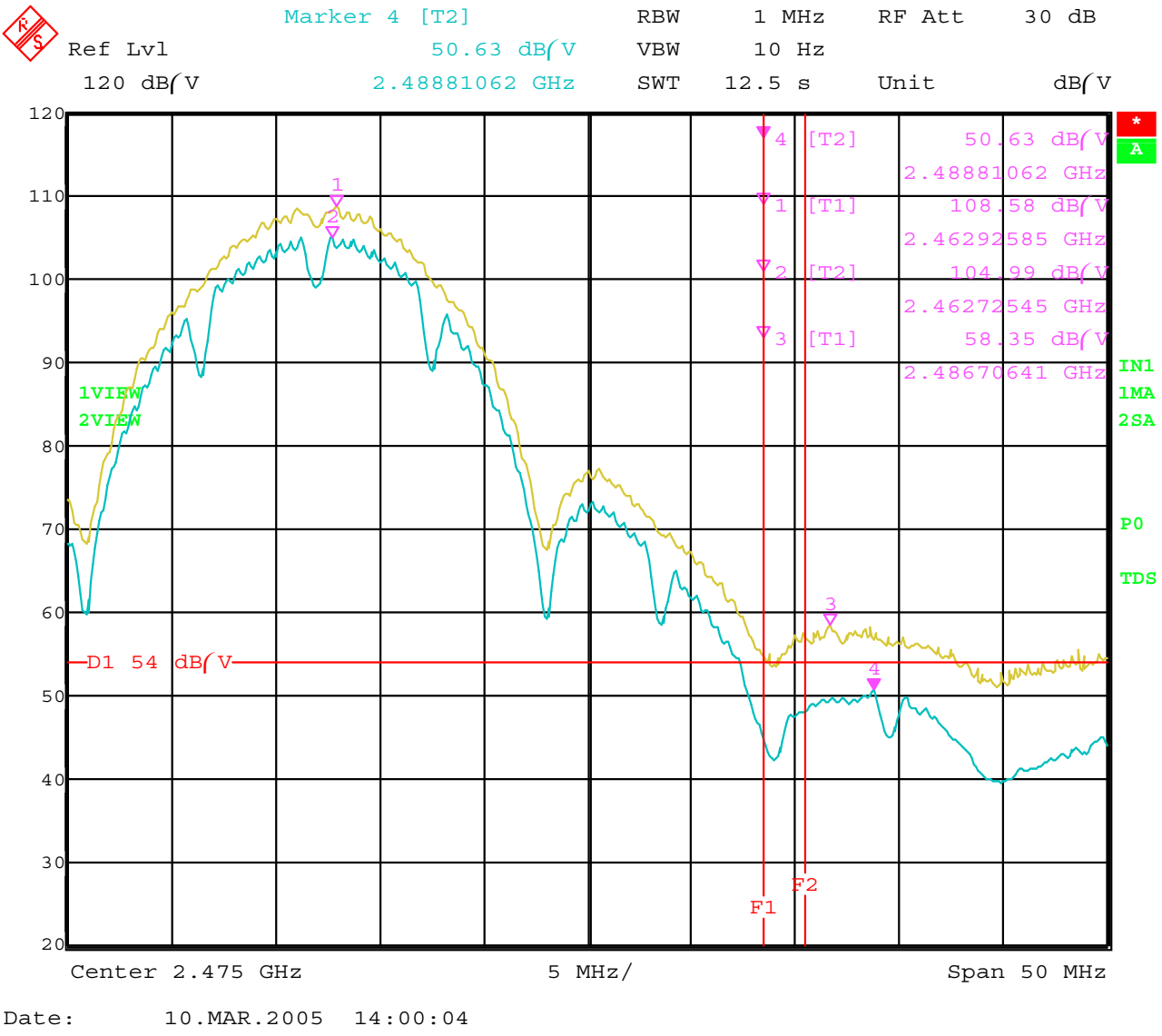
Band Edge – Channel 1— 802.11 b Mode – Vertical Polarization – Hitachi Antenna



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



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



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

FCC 15.247

Intel Corporation — Date: 3/10/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

Hitachi Antenna

Channel 1 - 802.11 g Mode Gain : 16.5 Peak Power: 24.07 dBm Avg. Power: 15.57 dBm

Channel 6 - 802.11 g Mode Gain : 16.5 Peak Power: 23.84 dBm Avg. Power: 15.17 dBm

Channel 11 - 802.11 g Mode Gain : 16.5 Peak Power: 23.62 dBm Avg. Power: 14.67 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	102.09	V	--	--	Peak	1.74	270	Fundamental of Channel 1
2412	91.49	V	--	--	Avg	1.74	270	@ 3 meters
2390	60.08	V	74	-13.92	Peak	1.74	270	**No** Marker Delta Method
2390	44.7	V	54	-9.3	Avg	1.74	270	Method Used
2437	100.49	V	--	--	Peak	1.93	270	Fundamental of Channel 6
2437	90.55	V	--	--	Avg	1.93	270	@ 3 meters
2462	102.69	V	--	--	Peak	2.64	225	Fundamental of Channel 11
2462	92.14	V	--	--	Avg	2.64	225	@ 3 meters
2483.5	60.8	V	74	-13.2	Peak	2.64	225	**No** Marker Delta Method
2483.5	43.07	V	54	-10.93	Avg	2.64	225	Method Used
2485.5	56.36	V	74	-17.64	Peak	2.64	225	**No** Marker Delta Method
2486.7	44.76	V	54	-9.24	Avg	2.64	225	Method Used

FCC 15.247

Intel Corporation — Date: 3/10/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

Hitachi Antenna

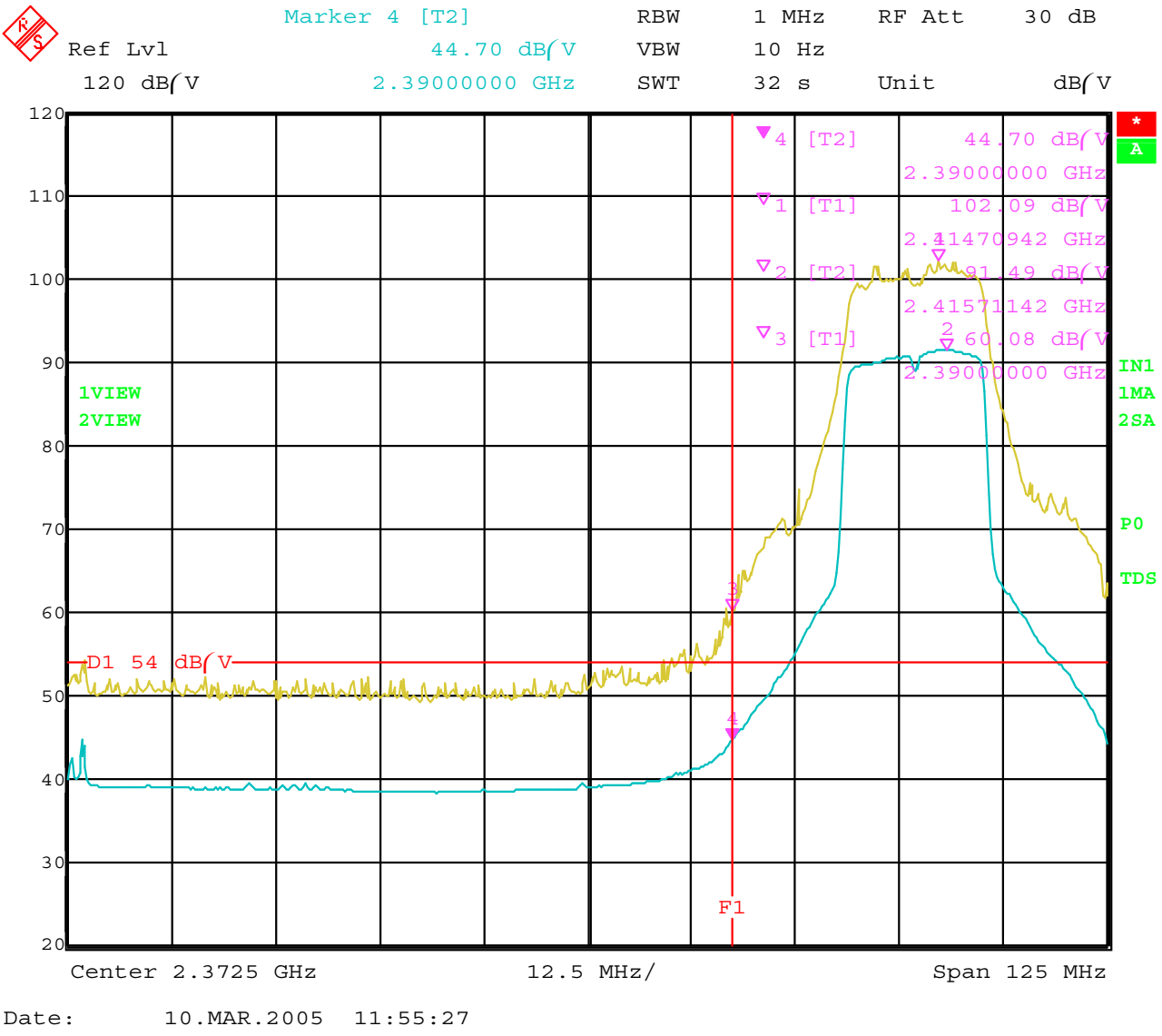
Channel 1 - 802.11 g Mode Gain : 16.5 Peak Power: 24.07 dBm Avg. Power: 15.57 dBm

Channel 6 - 802.11 g Mode Gain : 16.5 Peak Power: 23.84 dBm Avg. Power: 15.17 dBm

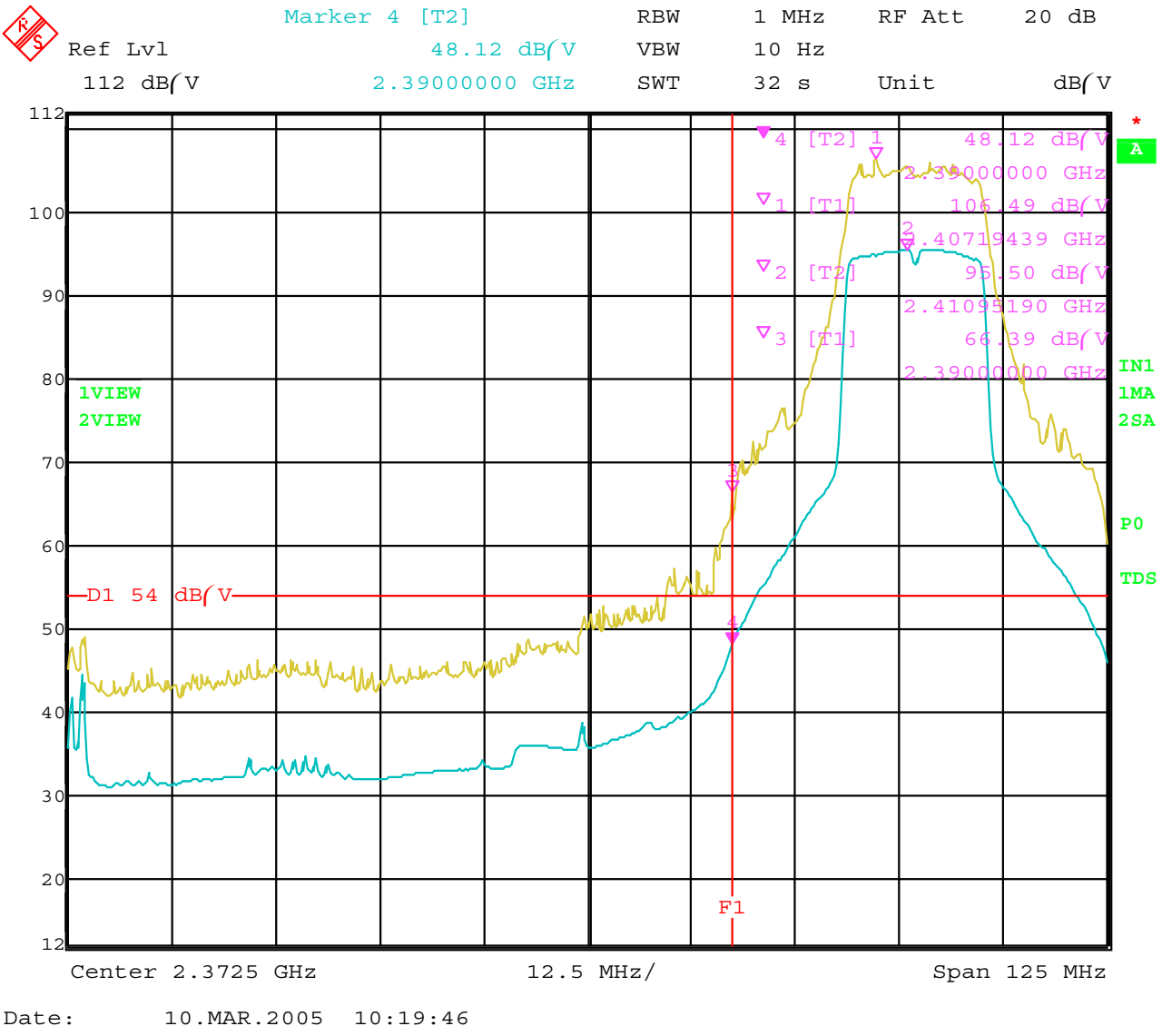
Channel 11 - 802.11 g Mode Gain : 16.5 Peak Power: 23.62 dBm Avg. Power: 14.67 dBm

Transmit Mode

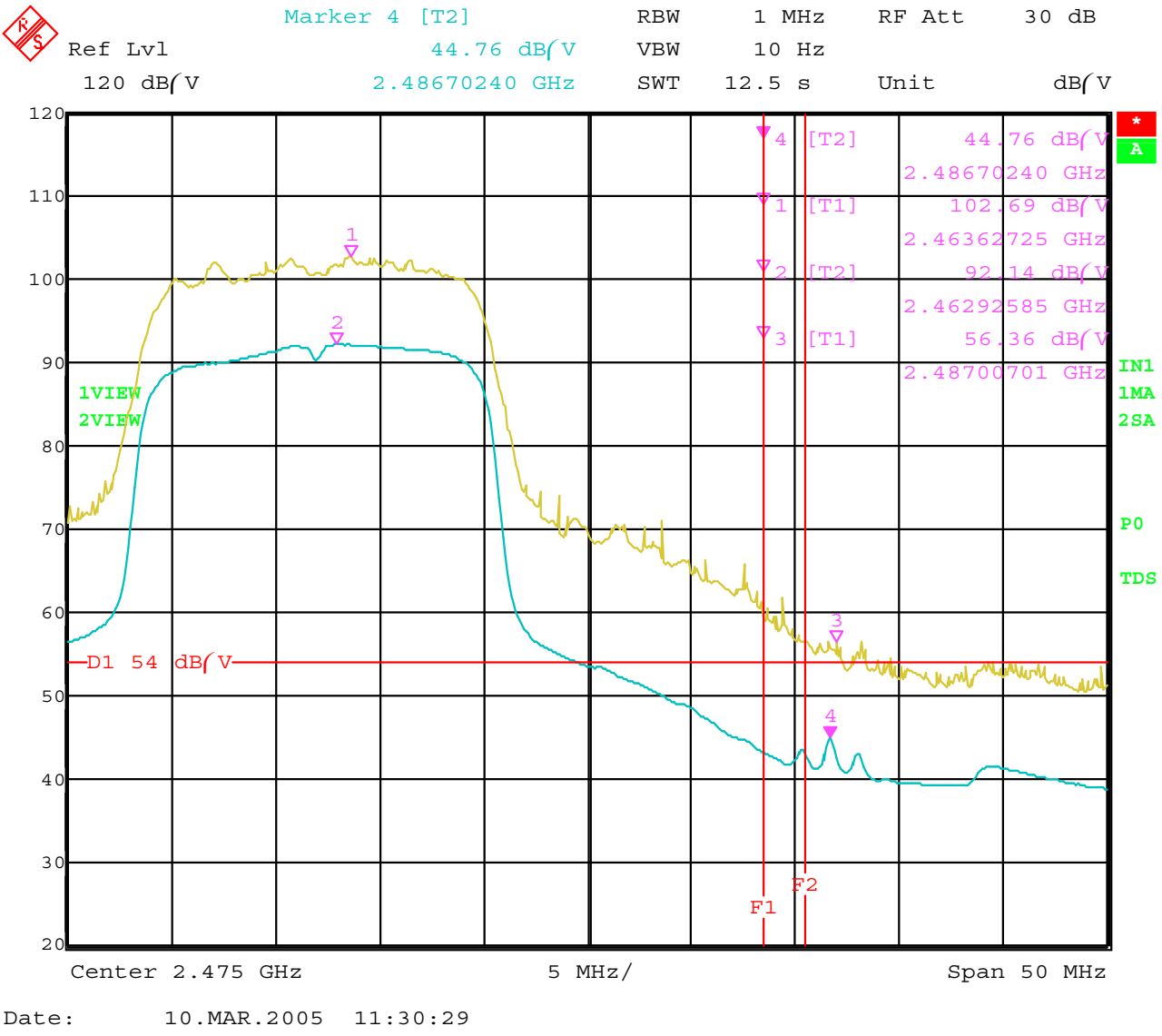
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	106.49	H	--	--	Peak	1.9	225	Fundamental of Channel 1
2412	95.5	H	--	--	Avg	1.9	225	@ 3 meters
2390	66.39	H	74	-7.61	Peak	1.9	225	
2390	48.12	H	54	-5.88	Avg	1.9	225	
2437	107.04	H	--	--	Peak	1.87	225	Fundamental of Channel 6
2437	96.31	H	--	--	Avg	1.87	225	@ 3 meters
2462	106.23	H	--	--	Peak	1.77	225	Fundamental of Channel 11
2462	95.61	H	--	--	Avg	1.77	225	@ 3 meters
2483.5	64.28	H	74	-9.72	Peak	1.77	225	**No** Marker Delta Method
2483.5	46.35	H	54	-7.65	Peak	1.77	225	Method Used
2496.5	57.93	H	74	-16.07	Peak	1.77	225	**With** Marker Delta Method
2494.1	45.28	H	54	-8.72	Peak	1.77	225	Method Used



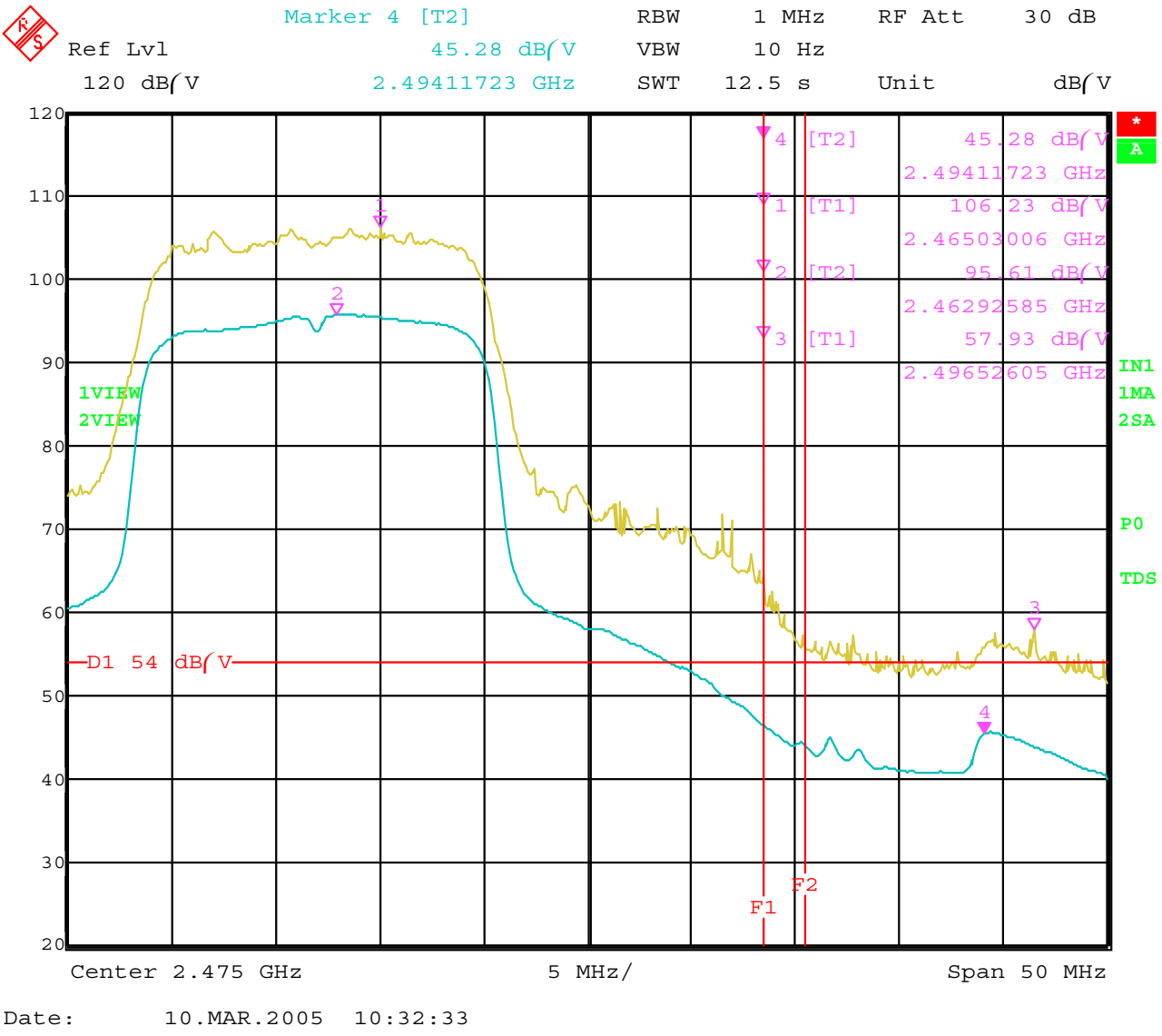
Band Edge – Channel 1 – 802.11 g Mode – Vertical Polarization – Hitachi Antenna



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



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



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

FCC 15.247

Intel Corporation — Date: 3/10/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Hitachi Antenna

Channel 149 - 802.11 a Mode Gain : 14.5 Peak Power: 20.94 dBm Avg. Power: 15.34 dBm

Channel 157 - 802.11 a Mode Gain : 14.5 Peak Power: 20.91 dBm Avg. Power: 22.30 dBm

Channel 165 - 802.11 a Mode Gain : 15.0 Peak Power: 21.11 dBm Avg. Power: 22.40 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5745	107.43	V	--	--	Peak	1.43	180	Fundamental of Channel 149
5745	97	V	--	--	Avg	1.43	180	@ 3 meters
5785	105.02	V	--	--	Peak	2.18	225	Fundamental of Channel 157
5785	94.14	V	--	--	Avg	2.18	225	@ 3 meters
5825	104.31	V	--	--	Peak	2.82	225	Fundamental of Channel 165
5825	93.89	V	--	--	Avg	2.82	225	@ 3 meters

FCC 15.247

Intel Corporation — Date: 3/10/05

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

Model: WM3A2915ABG — Tested By: Kyle Fujimoto

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

With Hitachi Antenna

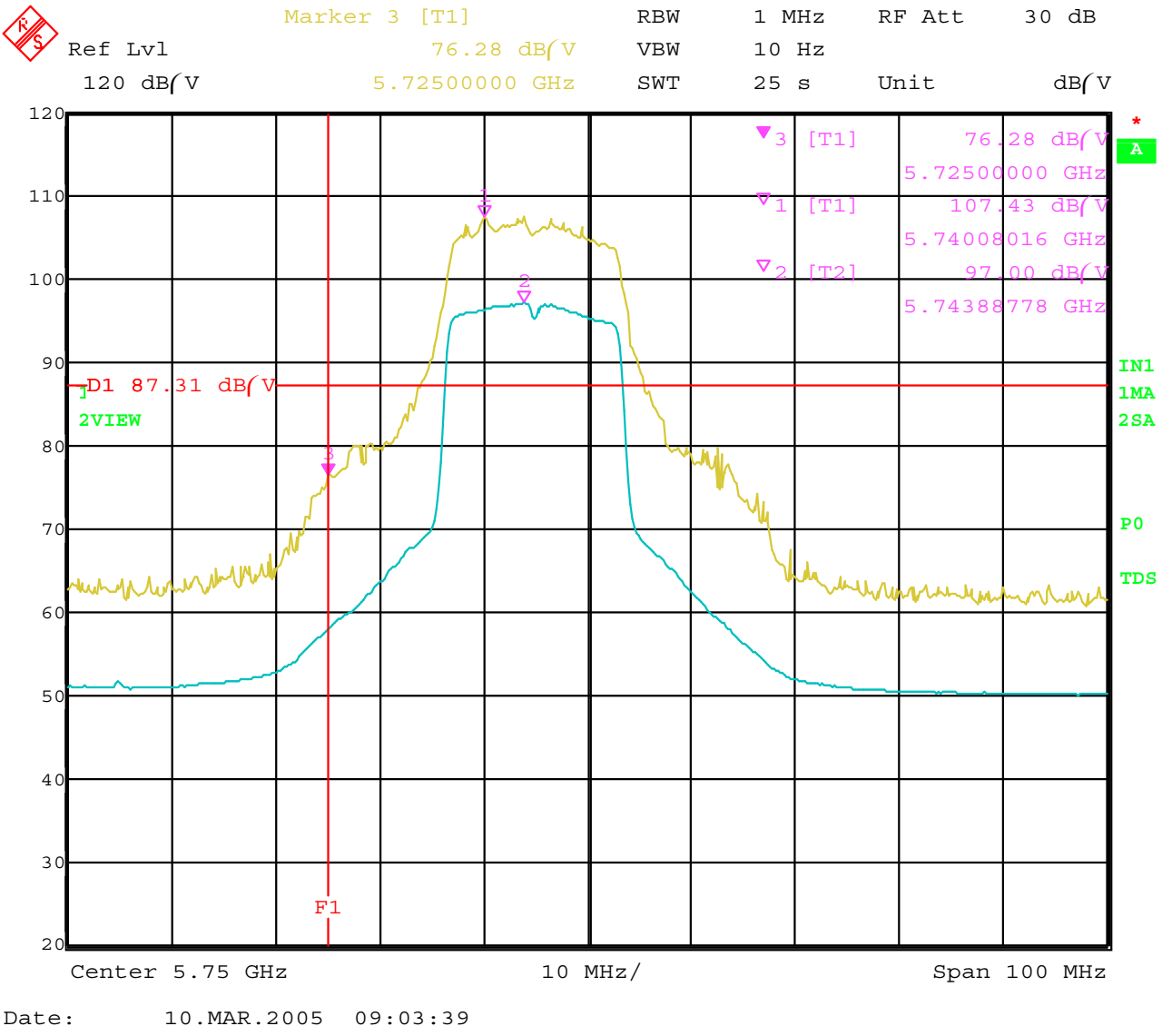
Channel 149 - 802.11 a Mode Gain : 14.5 Peak Power: 20.94 dBm Avg. Power: 15.34 dBm

Channel 157 - 802.11 a Mode Gain : 14.5 Peak Power: 20.91 dBm Avg. Power: 22.30 dBm

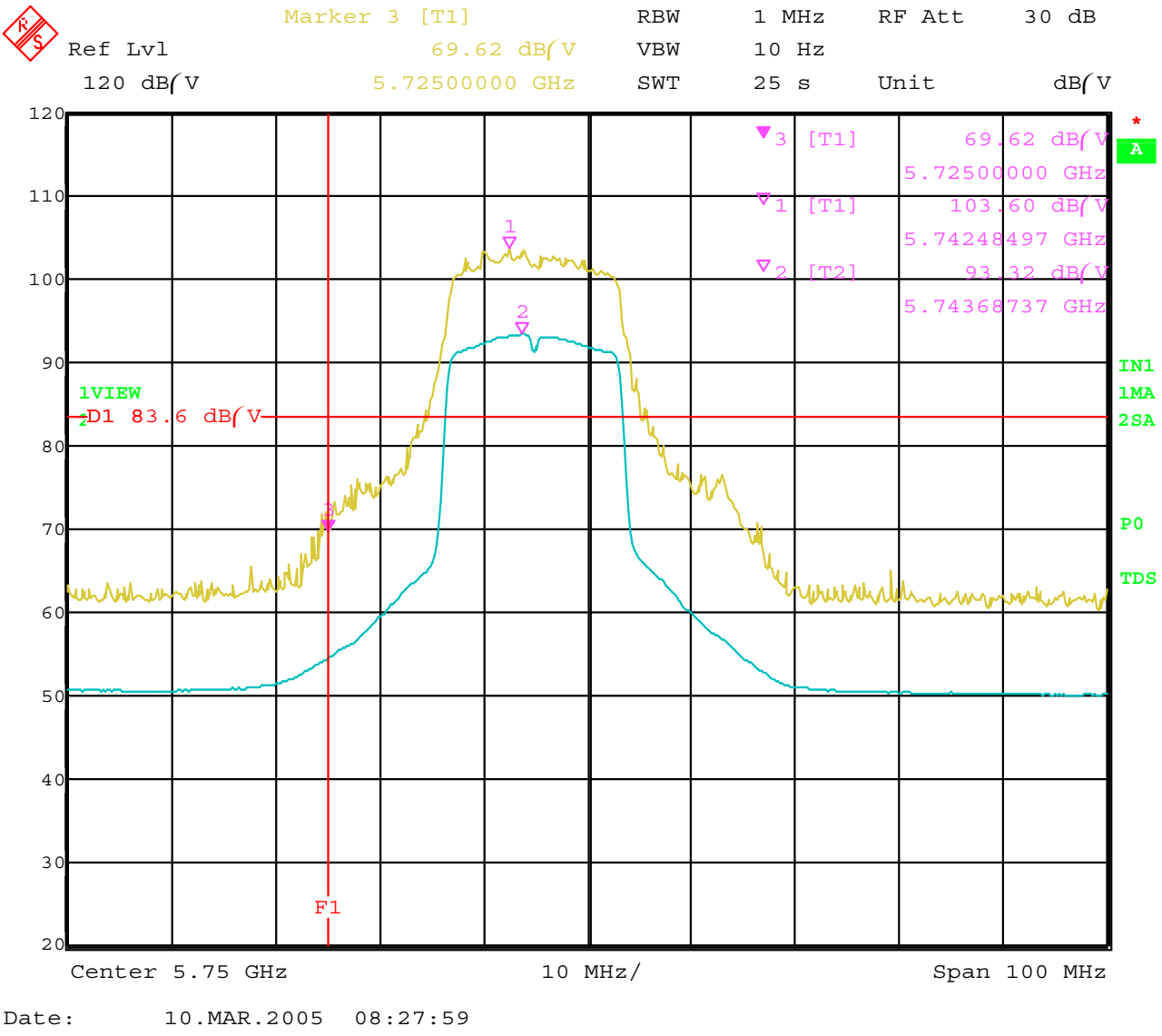
Channel 165 - 802.11 a Mode Gain : 15.0 Peak Power: 21.11 dBm Avg. Power: 22.40 dBm

Transmit Mode

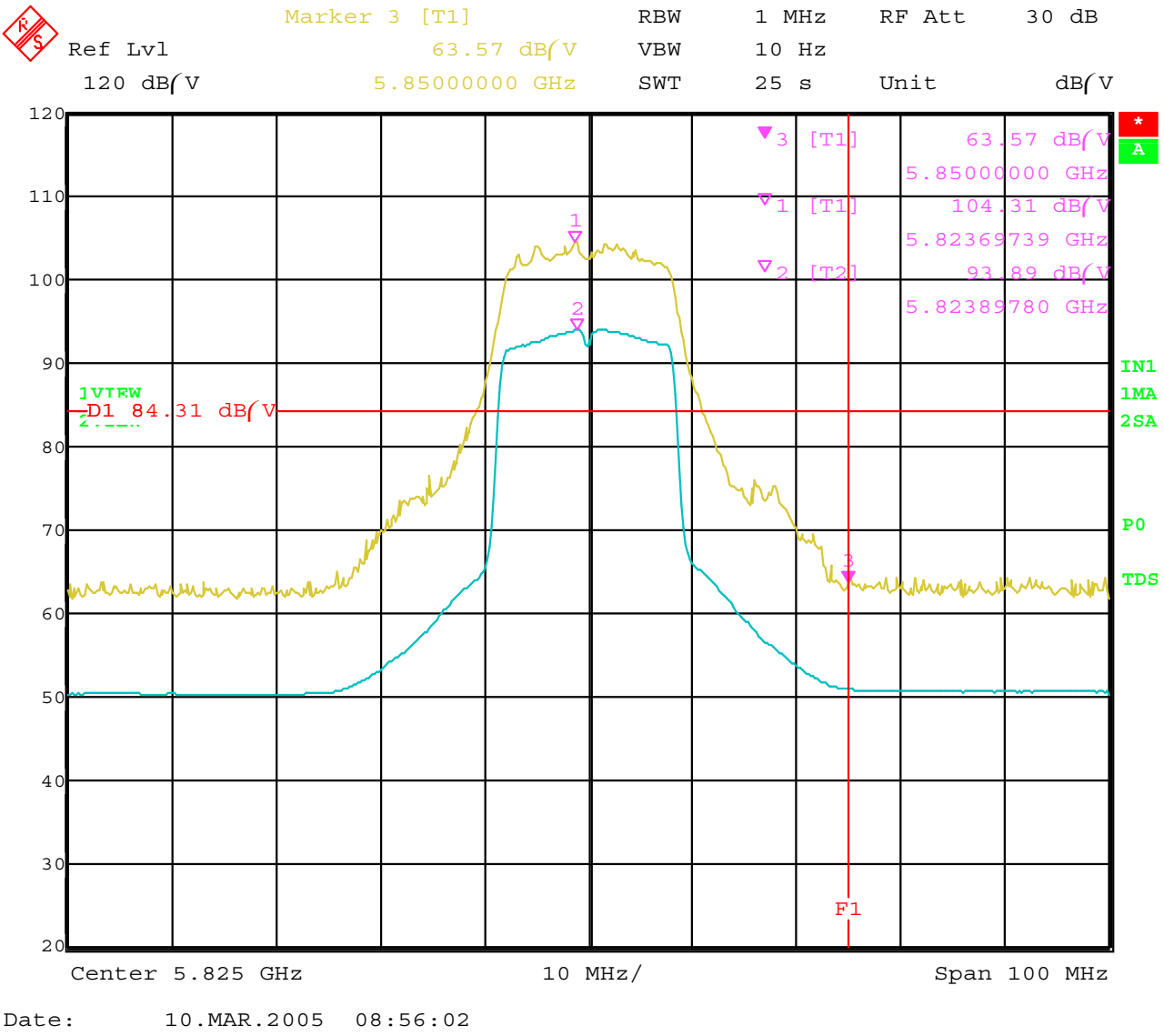
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5745	103.6	H	--	--	Peak	2.95	180	Fundamental of Channel 149
5745	93.32	H	--	--	Avg	2.95	180	@ 3 meters
5785	102.57	H	--	--	Peak	2.93	180	Fundamental of Channel 157
5785	93.14	H	--	--	Avg	2.93	180	@ 3 meters
5825	101.91	H	--	--	Peak	2.89	180	Fundamental of Channel 165
5825	91.75	H	--	--	Avg	2.89	180	@ 3 meters



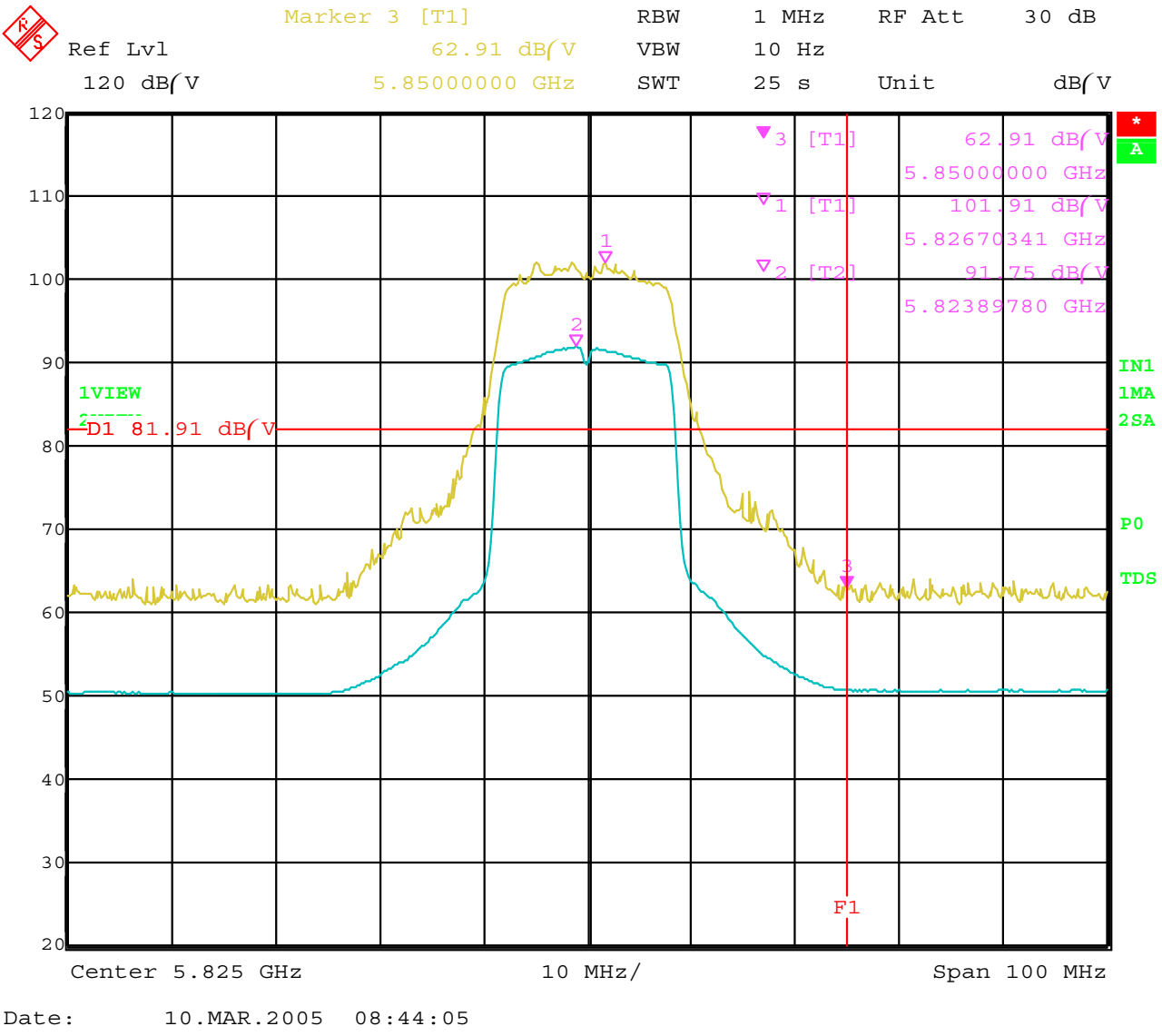
Band Edge – Channel 149 – 802.11 a Mode – Vertical Polarization – Hitachi Antenna



Band Edge – Channel 149 – 802.11 a Mode – Horizontal Polarization – Hitachi Antenna



Band Edge – Channel 165 – 802.11 a Mode – Vertical Polarization – Hitachi Antenna

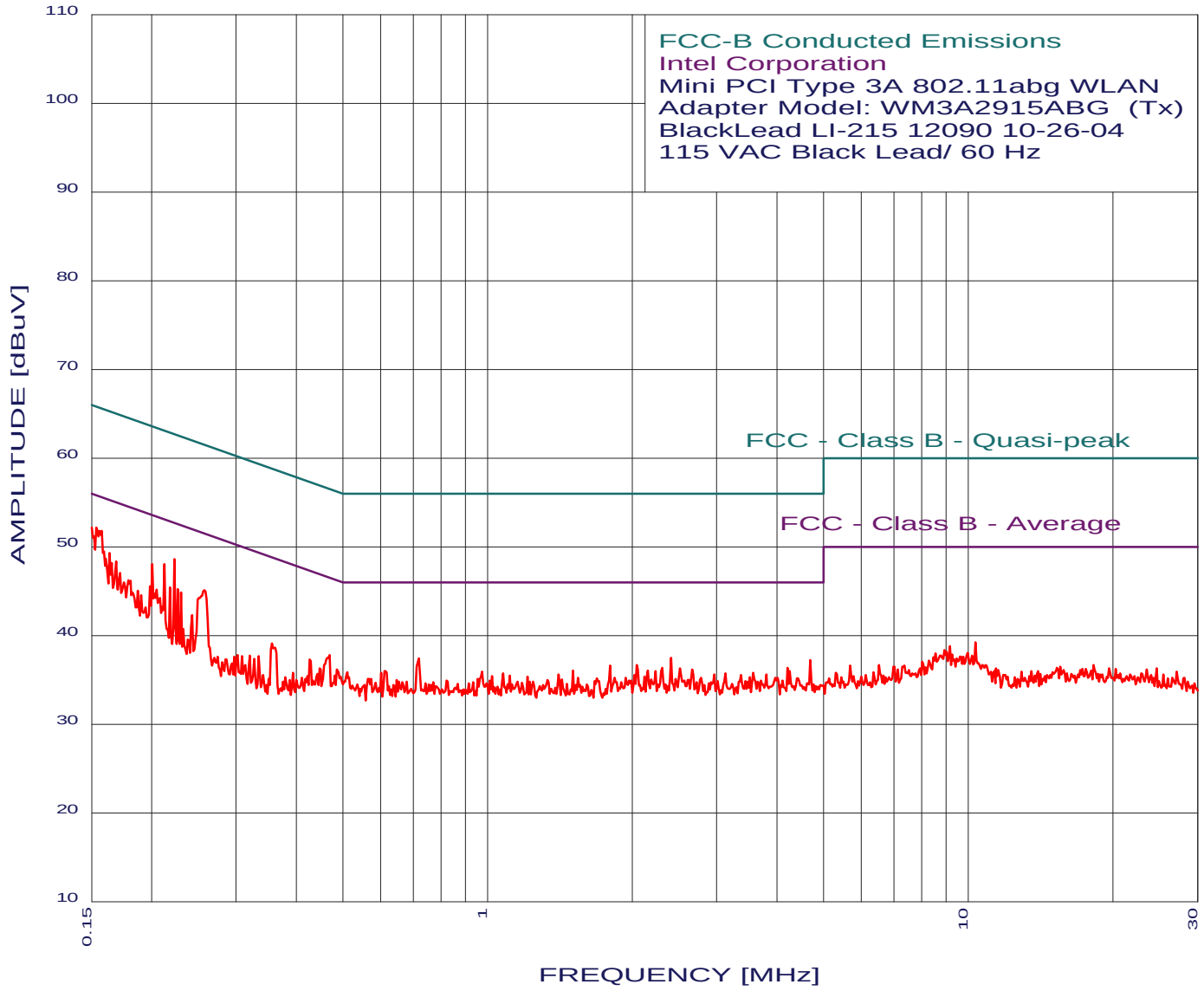


Band Edge – Channel 165 – 802.11 a Mode – Horizontal Polarization – Hitachi Antenna

CONDUCTED EMISSIONS

DATA SHEETS

EMISSION LEVEL [dBuV] PEAK 3/12/2005 0:27:01
Graph forPeak



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/12/2005 0:27:01

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Transmit Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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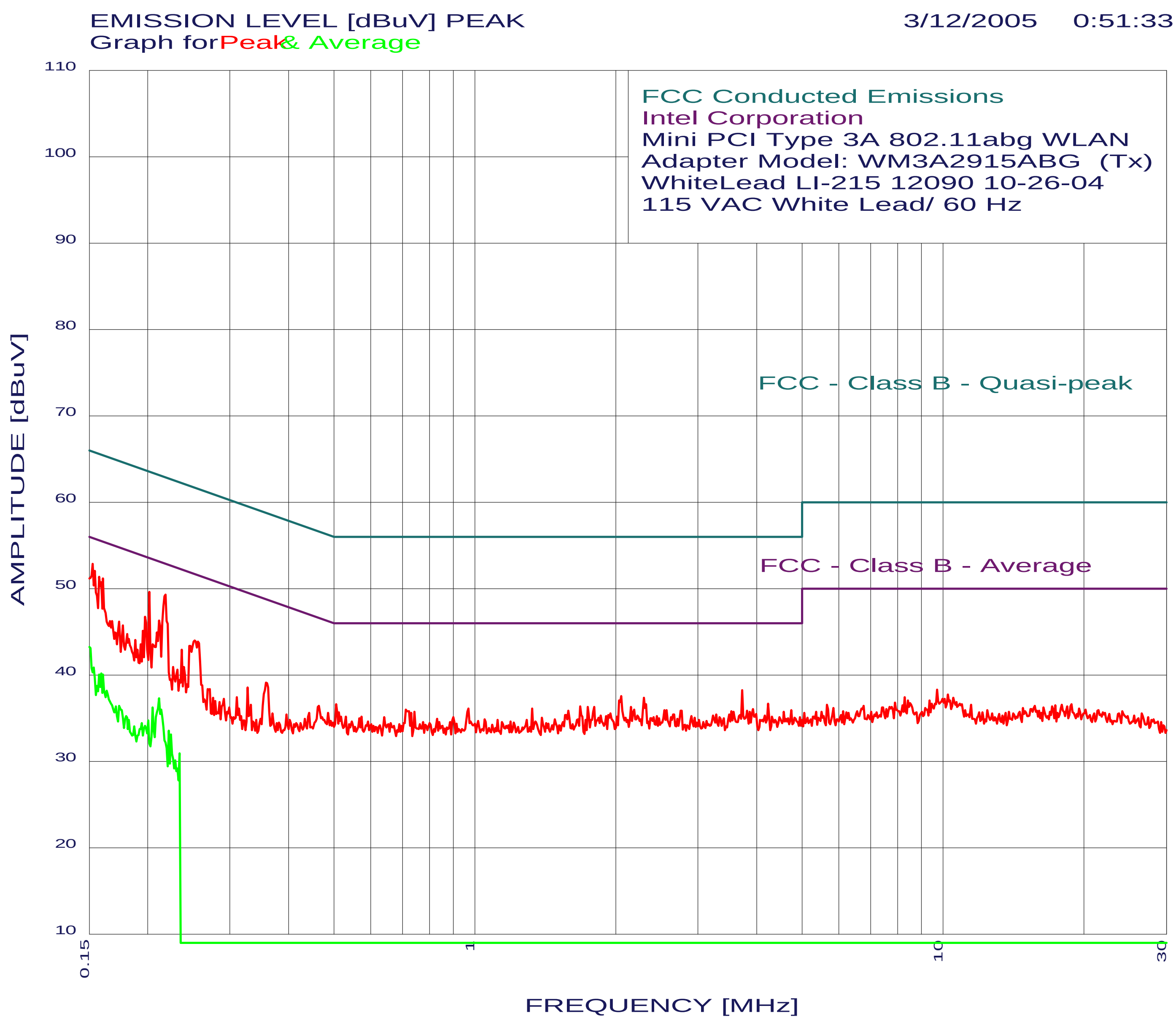
40 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.153	52.16	55.82	-3.66
2	0.223	48.62	52.70	-4.07
3	0.213	48.03	53.09	-5.06
4	0.201	48.04	53.58	-5.54
5	0.163	49.26	55.29	-6.04
6	0.258	45.10	51.51	-6.41
7	0.169	48.35	55.03	-6.67
8	0.165	48.16	55.20	-7.05
9	0.227	45.22	52.57	-7.35
10	0.219	45.43	52.87	-7.44
11	0.230	44.82	52.43	-7.62
12	0.172	47.05	54.86	-7.80
13	0.199	45.54	53.67	-8.13
14	0.179	46.25	54.54	-8.29
15	2.410	37.46	46.00	-8.54
16	0.720	37.39	46.00	-8.61
17	0.469	37.78	46.53	-8.75
18	0.175	45.95	54.72	-8.77
19	4.696	37.19	46.00	-8.81
20	0.187	45.05	54.15	-9.10
21	2.044	36.63	46.00	-9.37
22	1.800	36.58	46.00	-9.42
23	0.190	44.54	54.01	-9.47
24	2.310	36.35	46.00	-9.65
25	4.204	36.34	46.00	-9.66
26	0.243	42.31	52.00	-9.69
27	0.356	39.12	48.82	-9.70
28	2.514	36.27	46.00	-9.73
29	2.665	36.19	46.00	-9.81
30	2.156	36.04	46.00	-9.96
31	1.504	36.02	46.00	-9.98
32	0.614	35.98	46.00	-10.02
33	0.426	37.29	47.33	-10.04
34	0.486	36.17	46.23	-10.05
35	4.249	35.94	46.00	-10.06
36	2.238	35.94	46.00	-10.06
37	0.974	35.92	46.00	-10.08
38	0.510	35.87	46.00	-10.13
39	0.601	35.78	46.00	-10.22
40	3.565	35.78	46.00	-10.22


EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
3/12/2005 0:51:33
FCC Conducted Emissions
Intel Corporation
Mini PCI Type 3A 802.11abg WLAN
Adapter Model: WM3A2915ABG (Tx)
WhiteLead LI-215 12090 10-26-04
115 VAC White Lead/ 60 Hz
FCC - Class B - Quasi-peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]
COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/12/2005 0:51:33

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Transmit Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

---

39 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	0.152	52.85	55.86	-3.02*
2	0.219	49.30	52.87	-3.57*
3	0.154	52.05	55.78	-3.73*
4	0.202	49.62	53.53	-3.92*
5	0.157	51.34	55.60	-4.26*
6	0.161	51.14	55.43	-4.29*
7	0.212	46.31	53.14	-6.83*
8	0.198	46.72	53.71	-6.99*
9	0.252	43.97	51.68	-7.71
10	3.722	38.23	46.00	-7.77
11	0.210	44.91	53.23	-8.32*
12	2.055	37.55	46.00	-8.45
13	2.298	37.37	46.00	-8.63
14	0.174	46.13	54.77	-8.63*
15	0.196	45.12	53.80	-8.68*
16	0.177	45.73	54.63	-8.90*
17	4.227	36.68	46.00	-9.32
18	0.237	42.88	52.21	-9.33*
19	0.505	36.57	46.00	-9.43
20	1.680	36.37	46.00	-9.63
21	0.358	39.10	48.78	-9.68
22	1.800	36.30	46.00	-9.70
23	1.745	36.29	46.00	-9.71
24	0.181	44.73	54.46	-9.73*
25	2.156	36.26	46.00	-9.74
26	0.969	36.12	46.00	-9.88
27	1.325	36.10	46.00	-9.90
28	3.924	36.05	46.00	-9.95
29	0.713	36.00	46.00	-10.00
30	2.190	35.96	46.00	-10.04
31	0.188	44.02	54.10	-10.08*
32	2.568	35.90	46.00	-10.10
33	4.748	35.90	46.00	-10.10
34	2.540	35.90	46.00	-10.10
35	1.586	35.85	46.00	-10.15
36	2.766	35.83	46.00	-10.17
37	3.529	35.81	46.00	-10.19
38	0.464	36.38	46.62	-10.24
39	3.862	35.75	46.00	-10.25

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

COMPATIBLE ELECTRONICS

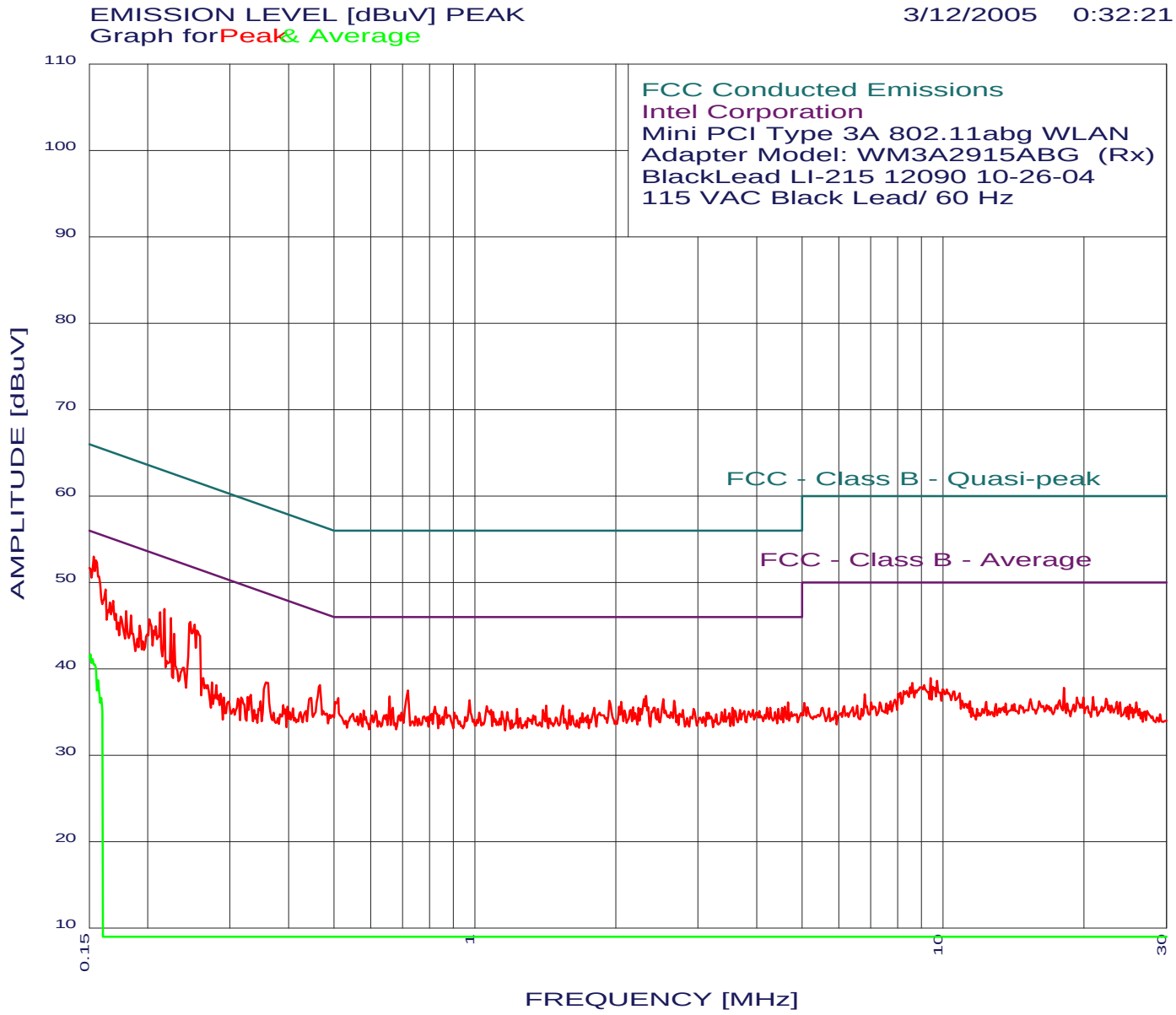
3/12/2005 0:51:33

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Transmit Mode)
With Hitachi Antenna
TEST ENGINEER :Benigno Chavez

---

22 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	40.83	55.82	-14.99
2	0.159	40.14	55.51	-15.37
3	0.161	40.00	55.43	-15.43
4	0.157	40.03	55.60	-15.57
5	0.212	37.29	53.14	-15.85
6	0.156	38.72	55.69	-16.96
7	0.214	35.97	53.05	-17.07
8	0.163	38.18	55.29	-17.11
9	0.205	36.22	53.40	-17.18
10	0.174	36.41	54.77	-18.35
11	0.171	36.33	54.90	-18.57
12	0.201	34.72	53.58	-18.86
13	0.222	33.55	52.74	-19.19
14	0.180	35.21	54.50	-19.29
15	0.195	34.38	53.84	-19.46
16	0.224	33.07	52.65	-19.58
17	0.183	34.78	54.37	-19.59
18	0.198	34.11	53.71	-19.60
19	0.187	34.03	54.15	-20.12
20	0.234	30.94	52.30	-21.36
21	0.229	30.09	52.48	-22.39
22	0.232	29.15	52.39	-23.24



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/12/2005 0:32:21

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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39 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	52.96	55.82	-2.86*
2	0.155	52.56	55.73	-3.17*
3	0.217	46.93	52.91	-5.99
4	0.162	49.16	55.34	-6.18*
5	0.247	45.40	51.86	-6.46
6	0.213	46.53	53.09	-6.56
7	0.224	45.82	52.65	-6.83
8	0.169	47.85	55.03	-7.17*
9	0.255	44.40	51.60	-7.20
10	0.166	47.65	55.16	-7.50*
11	0.202	45.74	53.53	-7.79
12	0.180	46.65	54.50	-7.85
13	0.184	46.15	54.28	-8.14
14	0.208	44.93	53.27	-8.33
15	0.466	38.08	46.58	-8.50
16	0.228	44.02	52.52	-8.50
17	0.720	37.49	46.00	-8.51
18	0.175	46.05	54.72	-8.67*
19	0.193	44.94	53.93	-8.98
20	2.322	36.85	46.00	-9.15
21	0.658	36.79	46.00	-9.21
22	0.510	36.57	46.00	-9.43
23	2.527	36.47	46.00	-9.53
24	0.974	36.32	46.00	-9.68
25	1.939	36.31	46.00	-9.69
26	2.665	36.29	46.00	-9.71
27	2.055	36.13	46.00	-9.87
28	4.672	36.09	46.00	-9.91
29	1.544	35.73	46.00	-10.27
30	1.419	35.70	46.00	-10.30
31	0.358	38.42	48.78	-10.36
32	1.060	35.63	46.00	-10.37
33	0.445	36.58	46.98	-10.39
34	0.822	35.60	46.00	-10.40
35	4.600	35.58	46.00	-10.42
36	2.179	35.54	46.00	-10.46
37	0.867	35.51	46.00	-10.49
38	0.669	35.49	46.00	-10.51
39	1.800	35.48	46.00	-10.52

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

COMPATIBLE ELECTRONICS

3/12/2005 0:32:21

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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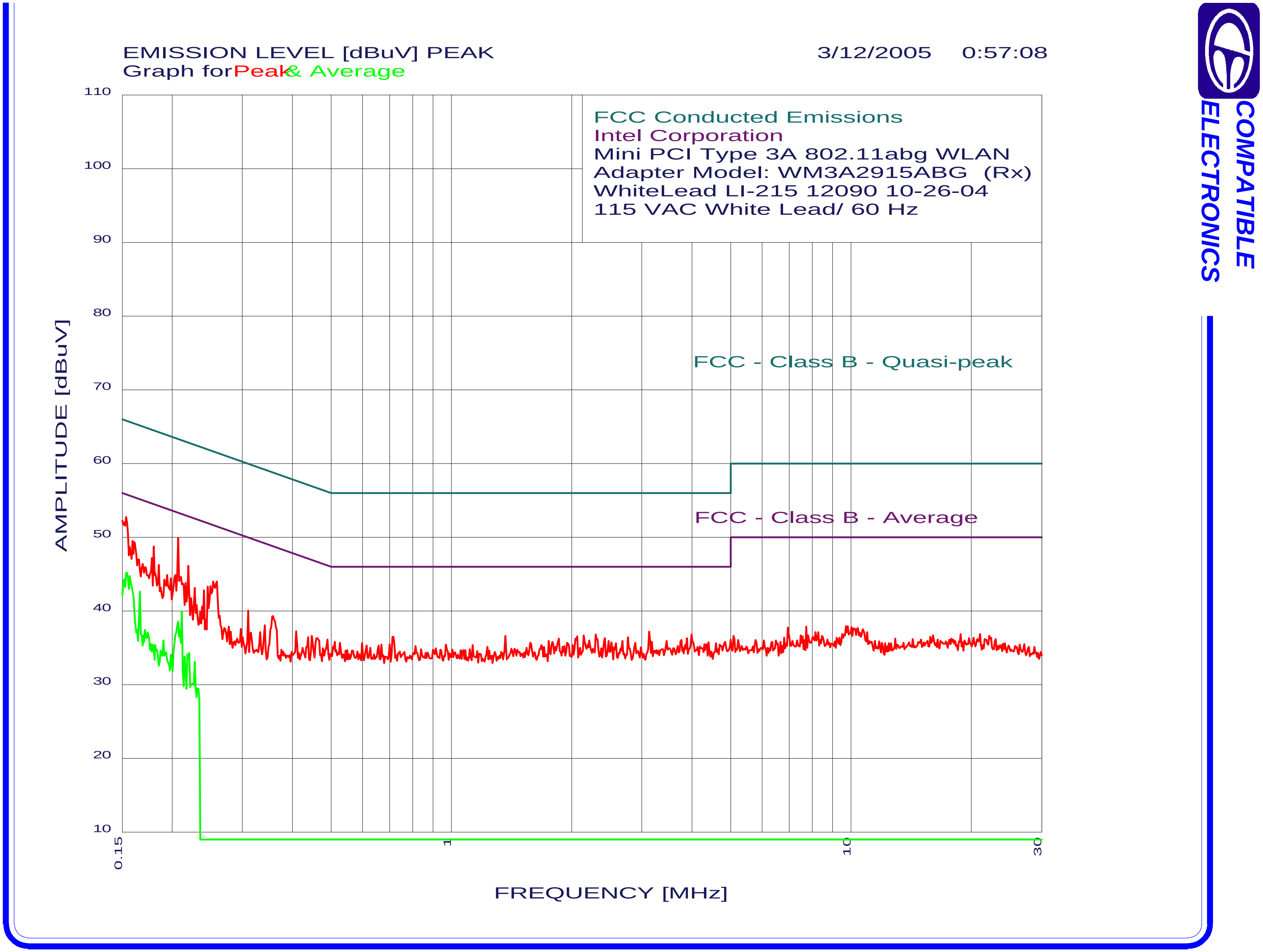
4 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.10 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.151	41.65	55.95	-14.30
2	0.152	41.07	55.86	-14.79
3	0.157	38.66	55.64	-16.98
4	0.159	36.62	55.51	-18.90



EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
3/12/2005 0:57:08
FCC Conducted Emissions
Intel Corporation
Mini PCI Type 3A 802.11abg WLAN
Adapter Model: WM3A2915ABG (Rx)
WhiteLead LI-215 12090 10-26-04
115 VAC White Lead/ 60 Hz
FCC - Class B - Quasi-peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]
COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/12/2005 0:57:08

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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39 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	52.75	55.82	-3.07*
2	0.207	49.91	53.31	-3.40*
3	0.180	48.73	54.50	-5.77*
4	0.159	49.44	55.51	-6.07*
5	0.161	49.34	55.43	-6.09*
6	0.220	46.10	52.83	-6.73*
7	0.157	48.64	55.64	-7.00*
8	0.178	47.13	54.59	-7.46*
9	0.254	43.97	51.64	-7.67
10	0.185	46.23	54.24	-8.01*
11	0.250	43.37	51.77	-8.40*
12	0.204	44.81	53.44	-8.63*
13	0.246	43.27	51.90	-8.63*
14	0.169	46.34	55.03	-8.69
15	3.124	37.17	46.00	-8.83
16	0.195	44.82	53.84	-9.02*
17	0.216	43.80	52.96	-9.16*
18	2.298	36.77	46.00	-9.23
19	3.987	36.76	46.00	-9.24
20	0.199	44.42	53.67	-9.25*
21	0.240	42.78	52.08	-9.30*
22	2.145	36.66	46.00	-9.34
23	1.367	36.61	46.00	-9.39
24	0.228	43.09	52.52	-9.43*
25	2.066	36.55	46.00	-9.45
26	0.358	39.30	48.78	-9.48
27	0.716	36.50	46.00	-9.50
28	2.766	36.43	46.00	-9.57
29	2.423	36.29	46.00	-9.71
30	3.882	36.25	46.00	-9.75
31	1.859	36.21	46.00	-9.79
32	0.310	40.01	49.97	-9.95
33	3.761	36.04	46.00	-9.96
34	2.214	35.96	46.00	-10.04
35	2.679	35.92	46.00	-10.08
36	3.456	35.90	46.00	-10.10
37	2.475	35.89	46.00	-10.11
38	0.489	36.07	46.18	-10.11
39	1.754	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

3/12/2005 0:57:08

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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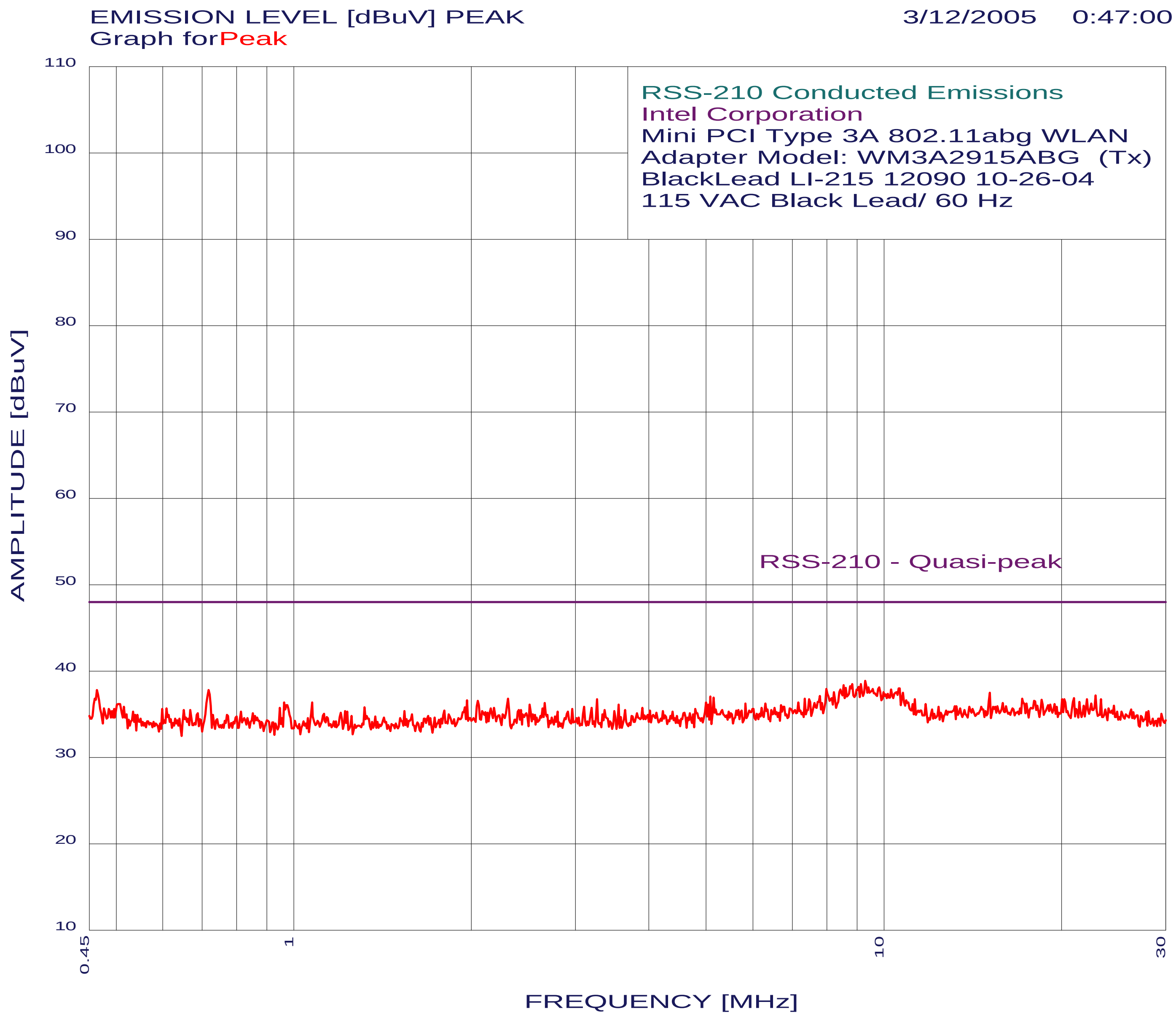
24 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.10 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.154	45.14	55.78	-10.64
2	0.157	44.74	55.64	-10.90
3	0.152	44.28	55.91	-11.63
4	0.166	42.62	55.16	-12.54
5	0.212	39.88	53.14	-13.26
6	0.207	38.50	53.31	-14.81
7	0.210	37.42	53.23	-15.81
8	0.171	37.43	54.90	-17.47
9	0.174	37.02	54.77	-17.74
10	0.163	37.40	55.29	-17.89
11	0.190	35.99	54.01	-18.02
12	0.170	36.68	54.98	-18.31
13	0.221	34.26	52.78	-18.53
14	0.219	34.10	52.87	-18.77
15	0.182	35.36	54.41	-19.05
16	0.179	35.42	54.54	-19.12
17	0.177	35.47	54.63	-19.16
18	0.215	33.80	53.00	-19.20
19	0.228	33.11	52.52	-19.41
20	0.194	34.37	53.88	-19.51
21	0.187	34.57	54.15	-19.58
22	0.199	34.05	53.67	-19.62
23	0.226	30.14	52.61	-22.47
24	0.232	29.44	52.39	-22.95



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/12/2005 0:47:00

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Transmit Mode)
With Hitachi Antenna
TEST ENGINEER :Benigno Chavez

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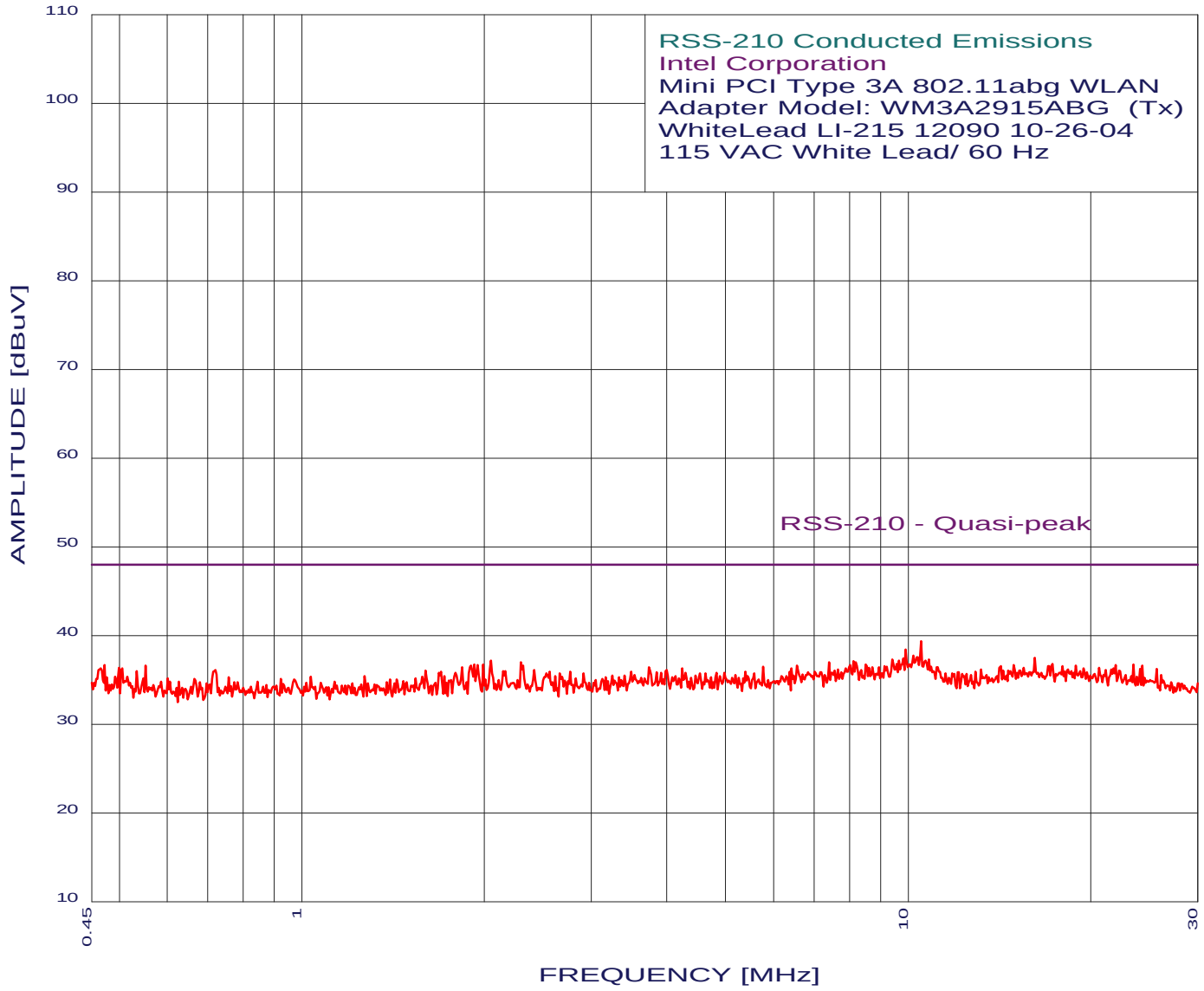
40 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	9.298	38.87	48.00	-9.13
2	9.142	38.47	48.00	-9.53
3	8.841	38.45	48.00	-9.55
4	8.547	38.34	48.00	-9.66
5	9.064	38.16	48.00	-9.84
6	9.820	38.10	48.00	-9.90
7	10.633	37.95	48.00	-10.05
8	7.993	37.91	48.00	-10.09
9	0.718	37.79	48.00	-10.21
10	0.464	37.78	48.00	-10.22
11	8.231	37.52	48.00	-10.48
12	10.769	37.46	48.00	-10.54
13	15.135	37.45	48.00	-10.55
14	22.836	37.16	48.00	-10.84
15	7.794	37.10	48.00	-10.90
16	5.079	37.03	48.00	-10.97
17	5.143	36.94	48.00	-11.06
18	21.001	36.82	48.00	-11.18
19	17.166	36.79	48.00	-11.21
20	7.348	36.78	48.00	-11.22
21	2.305	36.75	48.00	-11.25
22	3.268	36.75	48.00	-11.25
23	20.053	36.74	48.00	-11.26
24	20.221	36.73	48.00	-11.27
25	23.325	36.73	48.00	-11.27
26	22.086	36.73	48.00	-11.27
27	11.276	36.69	48.00	-11.31
28	7.474	36.69	48.00	-11.31
29	18.511	36.68	48.00	-11.32
30	1.965	36.61	48.00	-11.39
31	17.979	36.54	48.00	-11.46
32	2.050	36.53	48.00	-11.47
33	21.445	36.41	48.00	-11.59
34	7.166	36.37	48.00	-11.63
35	1.074	36.34	48.00	-11.66
36	4.993	36.32	48.00	-11.68
37	0.962	36.32	48.00	-11.68
38	15.917	36.30	48.00	-11.70
39	2.660	36.29	48.00	-11.71
40	6.292	36.23	48.00	-11.77

EMISSION LEVEL [dBuV] PEAK 3/12/2005 0:52:26
Graph forPeak



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/12/2005 0:52:26

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Transmit Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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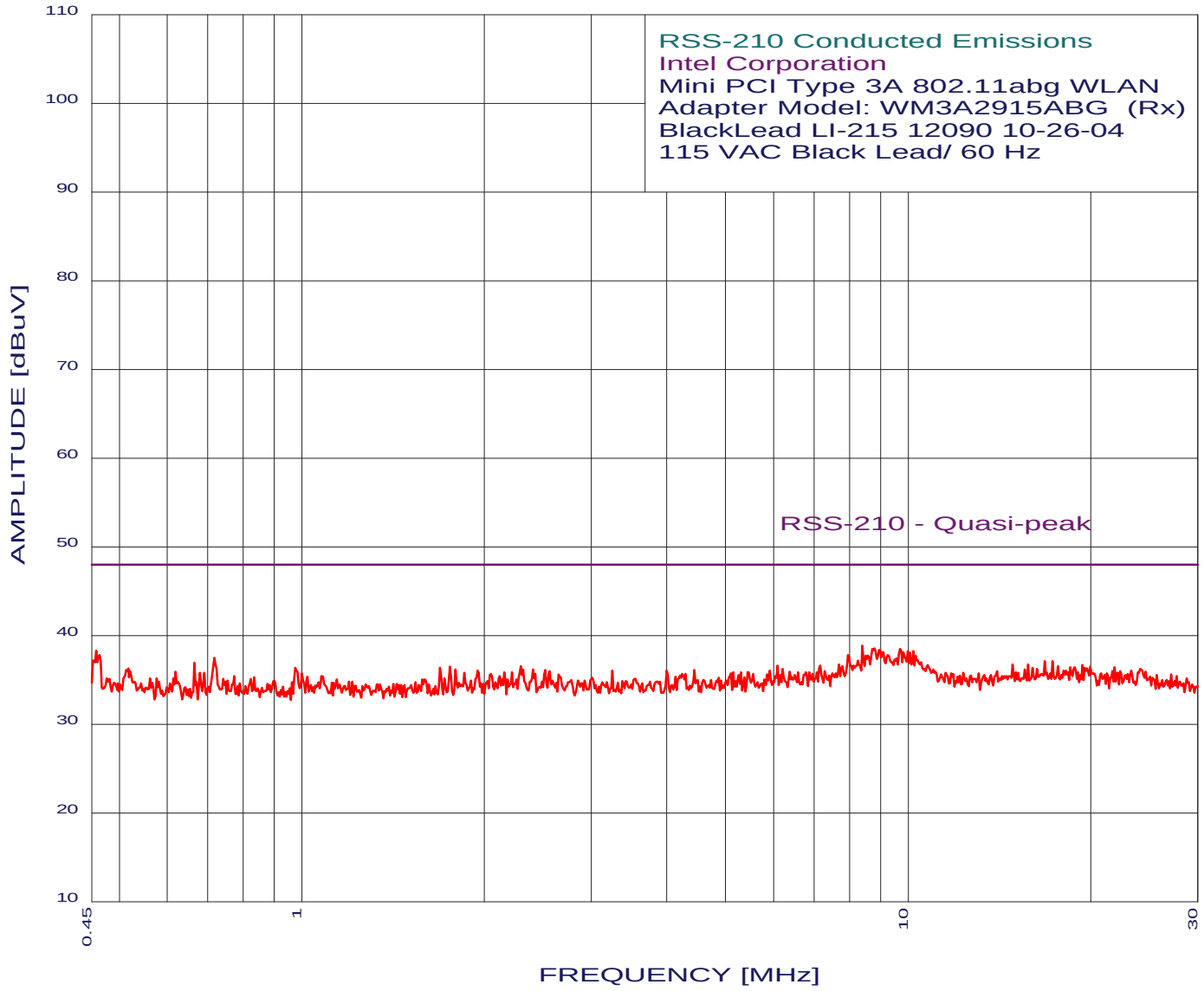
40 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	10.502	39.33	48.00	-8.67
2	9.903	38.39	48.00	-9.61
3	10.197	37.71	48.00	-10.29
4	16.187	37.47	48.00	-10.53
5	9.820	37.39	48.00	-10.61
6	9.416	37.26	48.00	-10.74
7	10.815	37.26	48.00	-10.74
8	2.050	37.14	48.00	-10.86
9	8.126	37.09	48.00	-10.91
10	8.196	36.99	48.00	-11.01
11	2.296	36.97	48.00	-11.03
12	7.411	36.95	48.00	-11.05
13	17.309	36.76	48.00	-11.24
14	1.991	36.74	48.00	-11.26
15	1.925	36.72	48.00	-11.28
16	8.512	36.71	48.00	-11.29
17	23.523	36.69	48.00	-11.31
18	8.027	36.68	48.00	-11.32
19	0.473	36.68	48.00	-11.32
20	14.943	36.68	48.00	-11.32
21	21.992	36.63	48.00	-11.37
22	1.949	36.63	48.00	-11.37
23	1.901	36.62	48.00	-11.38
24	6.560	36.60	48.00	-11.40
25	18.908	36.58	48.00	-11.42
26	0.553	36.58	48.00	-11.42
27	24.320	36.57	48.00	-11.43
28	9.142	36.55	48.00	-11.45
29	17.095	36.54	48.00	-11.46
30	14.210	36.52	48.00	-11.48
31	17.979	36.51	48.00	-11.49
32	5.761	36.45	48.00	-11.55
33	8.953	36.44	48.00	-11.56
34	3.737	36.43	48.00	-11.57
35	8.730	36.42	48.00	-11.58
36	1.838	36.40	48.00	-11.60
37	11.184	36.39	48.00	-11.61
38	0.500	36.37	48.00	-11.63
39	20.646	36.33	48.00	-11.67
40	6.425	36.29	48.00	-11.71

EMISSION LEVEL [dBuV] PEAK 3/12/2005 0:43:44
Graph forPeak



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/12/2005 0:43:44

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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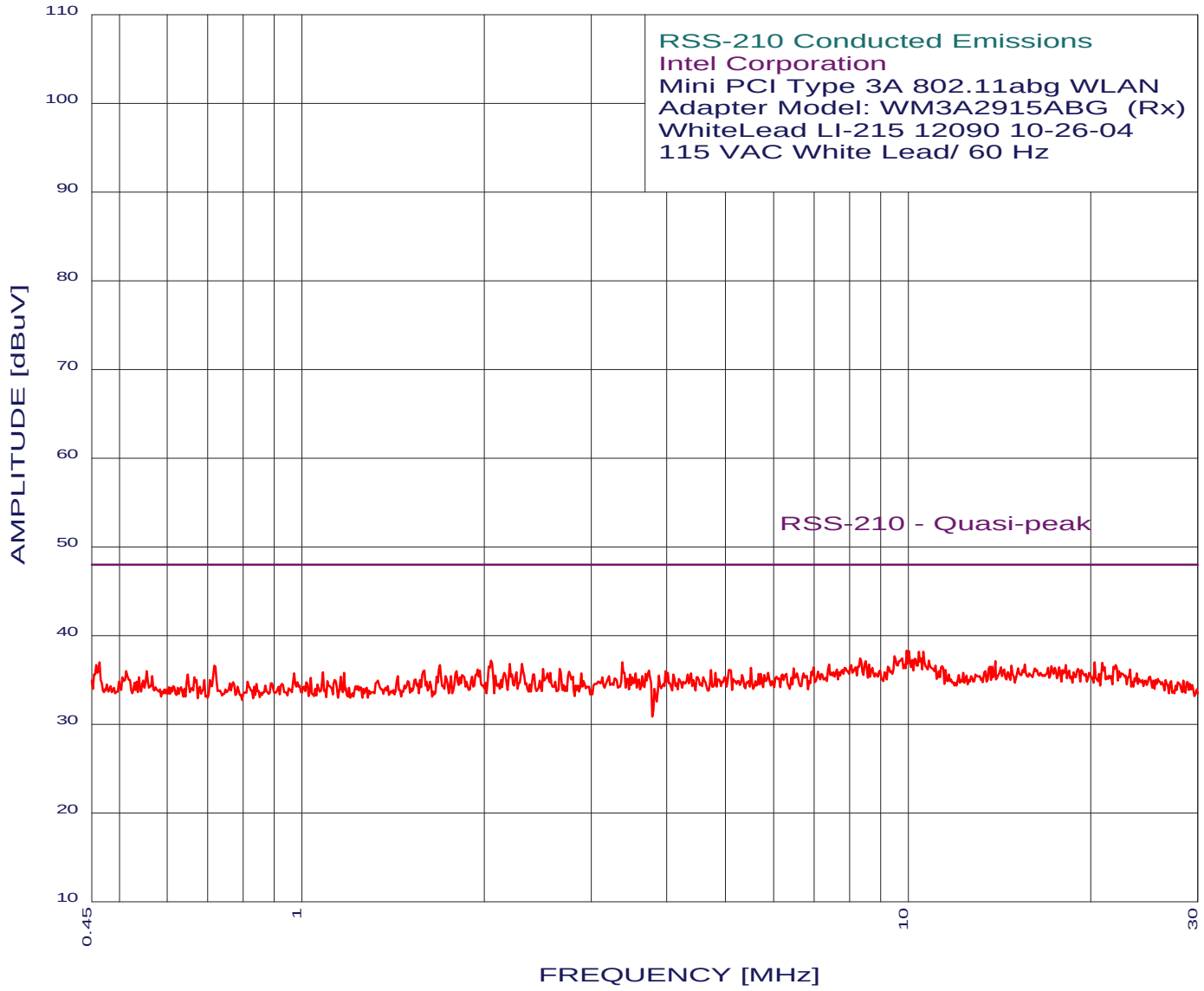
40 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line
Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	8.407	38.83	48.00	-9.17
2	8.804	38.55	48.00	-9.45
3	9.696	38.49	48.00	-9.51
4	8.990	38.36	48.00	-9.64
5	0.458	38.28	48.00	-9.72
6	10.197	38.22	48.00	-9.78
7	9.986	38.21	48.00	-9.79
8	9.820	38.10	48.00	-9.90
9	10.068	38.01	48.00	-9.99
10	7.960	37.81	48.00	-10.19
11	10.284	37.73	48.00	-10.27
12	0.718	37.49	48.00	-10.51
13	8.266	37.13	48.00	-10.87
14	17.309	37.10	48.00	-10.90
15	16.810	37.06	48.00	-10.94
16	0.665	36.89	48.00	-11.11
17	14.879	36.74	48.00	-11.26
18	7.694	36.70	48.00	-11.30
19	15.782	36.70	48.00	-11.30
20	19.386	36.64	48.00	-11.36
21	6.084	36.62	48.00	-11.38
22	7.166	36.57	48.00	-11.43
23	2.296	36.55	48.00	-11.45
24	17.678	36.52	48.00	-11.48
25	7.794	36.50	48.00	-11.50
26	1.755	36.47	48.00	-11.53
27	19.969	36.44	48.00	-11.56
28	21.898	36.41	48.00	-11.59
29	18.829	36.40	48.00	-11.60
30	1.690	36.36	48.00	-11.64
31	0.975	36.32	48.00	-11.68
32	16.052	36.31	48.00	-11.69
33	0.517	36.27	48.00	-11.73
34	24.117	36.24	48.00	-11.76
35	6.212	36.23	48.00	-11.77
36	15.582	36.18	48.00	-11.82
37	1.792	36.18	48.00	-11.82
38	2.405	36.16	48.00	-11.84
39	2.519	36.07	48.00	-11.93
40	4.439	36.06	48.00	-11.94

EMISSION LEVEL [dBuV] PEAK 3/12/2005 0:58:09
Graph forPeak



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

3/12/2005 0:58:09

Intel Corporation
Mini PCI Type 3A 802.11abg Wireless LAN
Model: WM3A2915ABG (Receive Mode)
With Hitachi Antenna
TEST ENGINEER : Benigno Chavez

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40 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	9.944	38.29	48.00	-9.71
2	10.027	38.20	48.00	-9.80
3	10.589	38.14	48.00	-9.86
4	10.415	38.13	48.00	-9.87
5	9.494	37.67	48.00	-10.33
6	8.337	37.40	48.00	-10.60
7	10.815	37.16	48.00	-10.84
8	2.050	37.14	48.00	-10.86
9	8.512	37.11	48.00	-10.89
10	13.913	37.10	48.00	-10.90
11	3.379	36.99	48.00	-11.01
12	0.464	36.98	48.00	-11.02
13	20.305	36.94	48.00	-11.06
14	20.912	36.93	48.00	-11.07
15	2.305	36.77	48.00	-11.23
16	2.201	36.76	48.00	-11.24
17	7.411	36.75	48.00	-11.25
18	15.582	36.73	48.00	-11.27
19	8.619	36.72	48.00	-11.28
20	8.060	36.68	48.00	-11.32
21	1.690	36.67	48.00	-11.33
22	21.992	36.63	48.00	-11.37
23	18.205	36.63	48.00	-11.37
24	0.718	36.60	48.00	-11.40
25	14.815	36.57	48.00	-11.43
26	17.238	36.55	48.00	-11.45
27	11.373	36.50	48.00	-11.50
28	13.741	36.48	48.00	-11.52
29	13.627	36.47	48.00	-11.53
30	6.988	36.42	48.00	-11.58
31	14.210	36.42	48.00	-11.58
32	17.753	36.39	48.00	-11.61
33	5.500	36.34	48.00	-11.66
34	17.024	36.34	48.00	-11.66
35	8.730	36.32	48.00	-11.68
36	6.479	36.29	48.00	-11.71
37	2.660	36.21	48.00	-11.79
38	2.498	36.20	48.00	-11.80
39	19.067	36.19	48.00	-11.81
40	23.226	36.14	48.00	-11.86
