

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

FCC 15.247

Intel Corporation

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

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

With Phycomp Antenna**Channel 1 - 802.11 b Mode****Transmit Mode**

Date: 3/17/05

Lab: B

Tested By: Kyle Fujimoto

Gain : 30.5 Peak Power: 17.61 dBm Avg. Power: 15.01 dBm

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

FCC 15.247

Intel Corporation

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

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

Date: 3/17/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 1 - 802.11 b Mode**

Gain : 30.5 Peak Power: 17.61 dBm Avg. Power: 15.01 dBm

Transmit Mode

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

FCC 15.247

Intel Corporation

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

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

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 6 - 802.11 b Mode**

Gain : 30.5 Peak Power: 17.44 dBm Avg. Power: 14.98 dBm

Transmit Mode

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

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Intel Corporation

Date: 3/16/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Lab: B

Model: WM3B2200BG

Tested By: Kyle Fujimoto

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

With Phycomp Antenna**Channel 6 - 802.11 b Mode**

Gain : 30.5 Peak Power: 17.44 dBm Avg. Power: 14.98 dBm

Transmit Mode

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

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Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

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

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 11 - 802.11 b Mode**

Gain : 30.5 Peak Power: 17.53 dBm Avg. Power: 15.12 dBm

Transmit Mode

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

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Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

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Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 11 - 802.11 b Mode**

Gain : 30.5 Peak Power: 17.53 dBm Avg. Power: 15.12 dBm

Transmit Mode

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

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Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 1 - 802.11 g Mode**

Gain : 24.5 Peak Power: 16.50 dBm Avg. Power: 9.93 dBm

Transmit Mode

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

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Intel Corporation

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

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

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 1 - 802.11 g Mode**

Gain : 24.5 Peak Power: 16.50 dBm Avg. Power: 9.93 dBm

Transmit Mode

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

FCC 15.247

Intel Corporation

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

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

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 6 - 802.11 g Mode**

Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

Transmit Mode

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

FCC 15.247

Intel Corporation

Date: 3/16/05

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Lab: B

Model: WM3B2200BG

Tested By: Kyle Fujimoto

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

With Phycomp Antenna**Channel 6 - 802.11 g Mode**

Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

Transmit Mode

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

FCC 15.247

Intel Corporation

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

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

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 11 - 802.11 g Mode**

Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

Transmit Mode

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

FCC 15.247

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Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

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With Phycomp Antenna**Channel 11 - 802.11 g Mode**

Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

Transmit Mode

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

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 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
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Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 1 - 802.11 b Mode**

Gain : 30.5 Peak Power: 17.61 dBm Avg. Power: 15.01 dBm

Channel 6 - 802.11 b Mode

Gain : 30.5 Peak Power: 17.44 dBm Avg. Power: 14.98 dBm

Channel 11 - 802.11 b Mode

Gain : 30.5 Peak Power: 17.53 dBm Avg. Power: 15.12 dBm

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

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/17/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 1 - 802.11 g Mode**

Gain : 24.5 Peak Power: 16.50 dBm Avg. Power: 9.93 dBm

Channel 6 - 802.11 g Mode

Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

Channel 11 - 802.11 g Mode

Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

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

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

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

With Phycomp Antenna**Channel 1 - 802.11 b Mode**

Gain : 30.5 Peak Power: 17.61 dBm Avg. Power: 15.01 dBm

Transmit Mode

Freq. (MHz)	Level (dBUV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3216	42.18	V	74	-31.82	Peak	1.78	270	Fundamental of LO for
3216	38.19	V	54	-15.81	Avg	1.78	270	Channel 1
6432	38.22	V	--	--	Peak	1.91	180	2nd Harmonic of LO for
6432	24.81	V	--	--	Avg	1.91	180	Channel 1
9648	53.4	V	--	--	Peak	1.46	180	3rd Harmonic of LO =
9648	48.33	V	--	--	Avg	1.46	180	4th Harmonic of Tx for Channel 1
12864	45.38	V	--	--	Peak	1.54	225	4th Harmonic of LO for
12864	32.25	V	--	--	Avg	1.54	225	Channel 1
3216	40.83	H	74	-33.17	Peak	1.54	135	Fundamental of LO for
3216	35.65	H	54	-18.35	Avg	1.54	135	Channel 1
6432	38.86	H	--	--	Peak	2.22	135	2nd Harmonic of LO for
6432	24.79	H	--	--	Avg	2.22	135	Channel 1
9648	53.39	H	--	--	Peak	2.61	180	3rd Harmonic of LO =
9648	48.33	H	--	--	Avg	2.61	180	4th Harmonic of Tx for Channel 1
12864	45.17	H	--	--	Peak	1.94	225	4th Harmonic of LO for
12864	32.06	H	--	--	Avg	1.94	225	Channel 1
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

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

With Phycomp Antenna**Channel 6 - 802.11 b Mode**

Gain : 30.5 Peak Power: 17.44 dBm Avg. Power: 14.98 dBm

Transmit Mode

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

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 11 - 802.11 b Mode**

Gain : 30.5 Peak Power: 17.53 dBm Avg. Power: 15.12 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3282.67	38.61	V	74	-35.39	Peak	2.43	225	Fundamental of LO for
3282.67	32.27	V	54	-21.73	Avg	2.43	225	Channel 11
6565.33	38.61	V	--	--	Peak	2.61	180	2nd Harmonic of LO for
6565.33	25.32	V	--	--	Avg	2.61	180	Channel 11
9848	54.48	V	--	--	Peak	2.36	225	3rd Harmonic of LO =
9848	50.66	V	--	--	Avg	2.36	225	4th Harmonic of Tx for Channel 11
13130.7	43.81	V	--	--	Peak	2.33	180	4th Harmonic of LO for
13130.7	30.62	V	--	--	Avg	2.33	180	of Channel 11
3282.67	39.18	H	74	-34.82	Peak	2.31	135	Fundamental of LO for
3282.67	32.86	H	54	-21.14	Avg	2.31	135	Channel 11
6565.33	38.36	H	--	--	Peak	1.93	225	2nd Harmonic of LO for
6565.33	25.16	H	--	--	Avg	1.93	225	Channel 11
9848	54.08	H	--	--	Peak	2.33	180	3rd Harmonic of LO =
9848	50.36	H	--	--	Avg	2.33	180	4th Harmonic of Tx for Channel 11
13130.7	43.67	H	--	--	Peak	2.64	135	4th Harmonic of LO for
13130.7	30.32	H	--	--	Avg	2.64	135	of Channel 11
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

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

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 1 - 802.11 g Mode**

Gain : 24.5 Peak Power: 16.50 dBm Avg. Power: 9.93 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3216	40.88	V	74	-33.12	Peak	3.25	225	Fundamental of LO for
3216	35.44	V	54	-18.56	Avg	3.25	225	Channel 1
6432	38.22	V	--	--	Peak	1.94	225	2nd Harmonic of LO for
6432	24.94	V	--	--	Avg	1.94	225	Channel 1
9648	46.86	V	--	--	Peak	2.1	135	3rd Harmonic of LO =
9648	33.47	V	--	--	Avg	2.1	135	4th Harmonic of Tx for Channel 1
12864	45.13	V	--	--	Peak	2.35	180	4th Harmonic of LO for
12864	32.18	V	--	--	Avg	2.35	180	Channel 1
3216	42.07	H	74	-31.93	Peak	2.04	180	Fundamental of LO for
3216	36.15	H	54	-17.85	Avg	2.04	180	Channel 1
6432	38.24	H	--	--	Peak	1.72	225	2nd Harmonic of LO for
6432	24.96	H	--	--	Avg	1.72	225	Channel 1
9648	47.02	H	--	--	Peak	1.62	180	3rd Harmonic of LO =
9648	33.19	H	--	--	Avg	1.62	180	4th Harmonic of Tx for Channel 1
12864	46.21	H	--	--	Peak	1.79	135	4th Harmonic of LO for
12864	32.1	H	--	--	Avg	1.79	135	Channel 1
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 6 - 802.11 g Mode**

Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

Transmit Mode

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
3249.33	41.02	V	74	-32.98	Peak	3.26	45	Fundamental of LO for
3249.33	35.64	V	54	-18.36	Avg	3.26	45	Channel 6
6498.67	38.78	V	--	--	Peak	2.03	180	2nd Harmonic of LO for
6498.67	25.19	V	--	--	Avg	2.03	180	Channel 6
9748	46.42	V	--	--	Peak	1.84	135	3rd Harmonic of LO =
9748	32.62	V	--	--	Avg	1.84	135	4th Harmonic of Tx for Channel 6
12997.3	45.52	V	--	--	Peak	2.25	180	4th Harmonic of LO for
12997.3	31.85	V	--	--	Avg	2.25	180	Channel 6
3249.33	40.88	H	74	-33.12	Peak	1.24	135	Fundamental of LO for
3249.33	35.82	H	54	-18.18	Avg	1.24	135	Channel 6
6498.67	38.35	H	--	--	Peak	2.05	135	2nd Harmonic of LO for
6498.67	25.09	H	--	--	Avg	2.05	135	Channel 6
9748	45.62	H	--	--	Peak	2.48	225	3rd Harmonic of LO =
9748	31.86	H	--	--	Avg	2.48	225	4th Harmonic of Tx for Channel 6
12997.3	45.3	H	--	--	Peak	2.3	180	4th Harmonic of LO for
12997.3	31.63	H	--	--	Avg	2.3	180	of Channel 6
								Only the Fundamental of the LO
								is in the Restricted Band

FCC 15.247

Intel Corporation

Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter

Model: WM3B2200BG

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

Date: 3/16/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 11 - 802.11 g Mode**

Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

Transmit Mode

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

Intel Corporation

Model: WM3B2200BG

With Phycomp Antenna

Receive Mode

Lab: B

Tested By: Kyle Fujimoto

[illegible]

Intel Corporation

Model: WM3B2200BG

With Phycomp Antenna

Receive Mode

Lab: B

Tested By: Kyle Fujimoto

[illegible]

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

Page : 1/1
 Date : 3/23/2005
 Time : 17:41:22
 Lab : A
 Test Distance : 3.0

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

Intel Corporation

Model: WM3B2200BG

With Phycomp Antenna

Date: 3/17/05

Lab: B

Tested By: Kyle Fujimoto

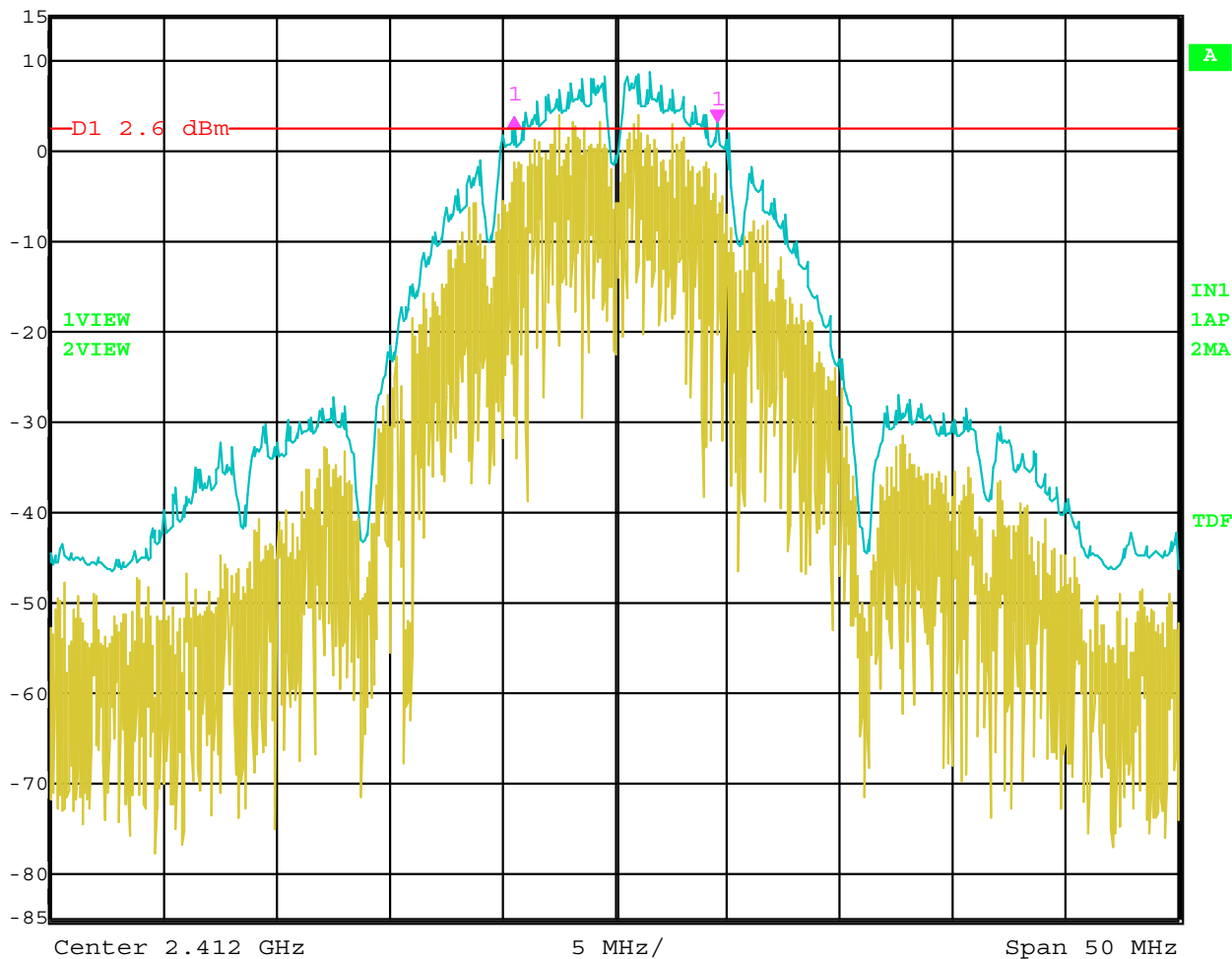
[illegible]

-6 dB BANDWIDTH

DATA SHEETS



Delta 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl 0.51 dB VBW 300 kHz
15 dBm -9.01803607 MHz SWT 12.5 ms Unit dBm

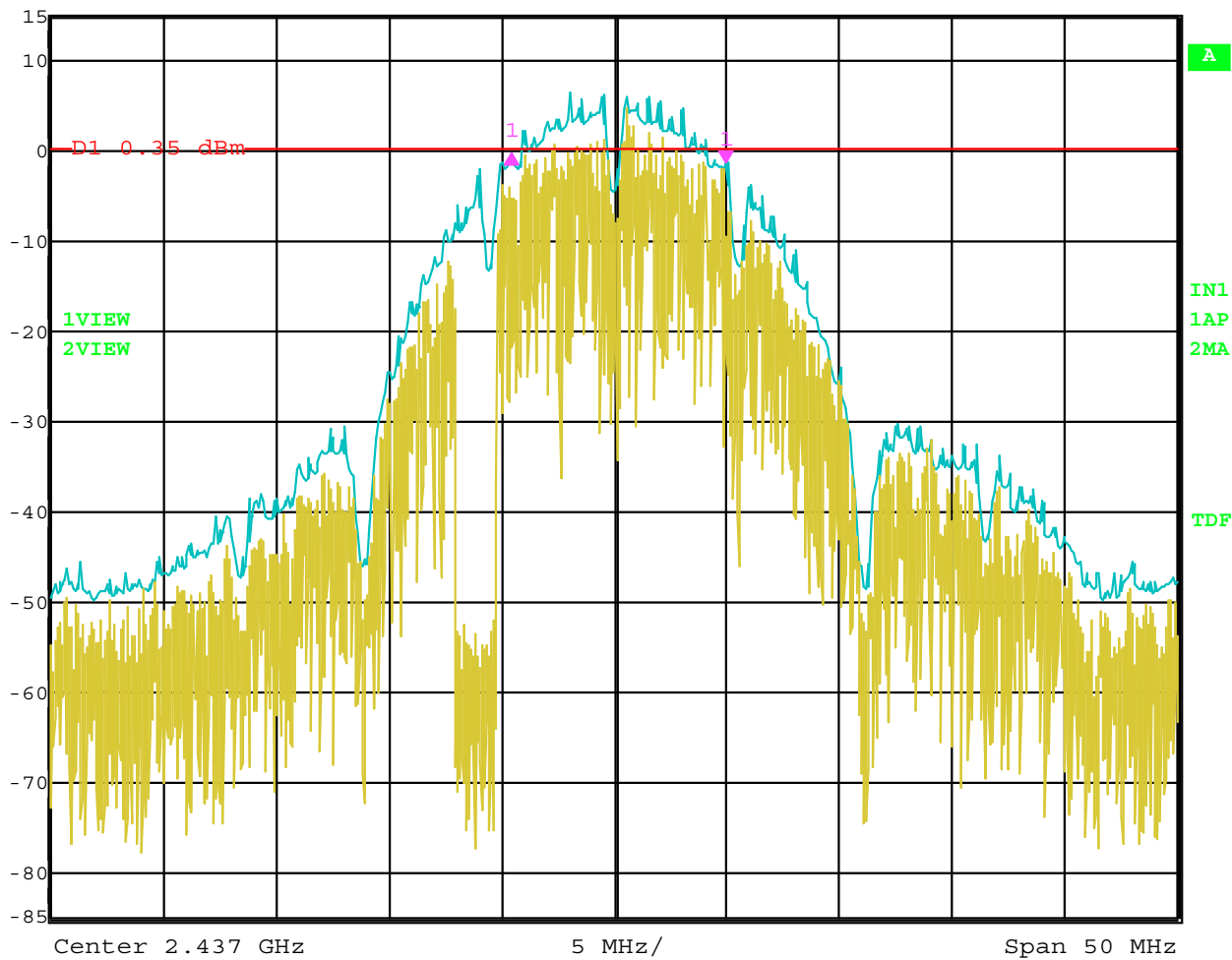


Date: 18.MAR.2005 05:16:04

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



Ref Lvl	Delta 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	0.83 dB	VBW	300 kHz		
	-9.51903808 MHz	SWT	12.5 ms	Unit	dBm

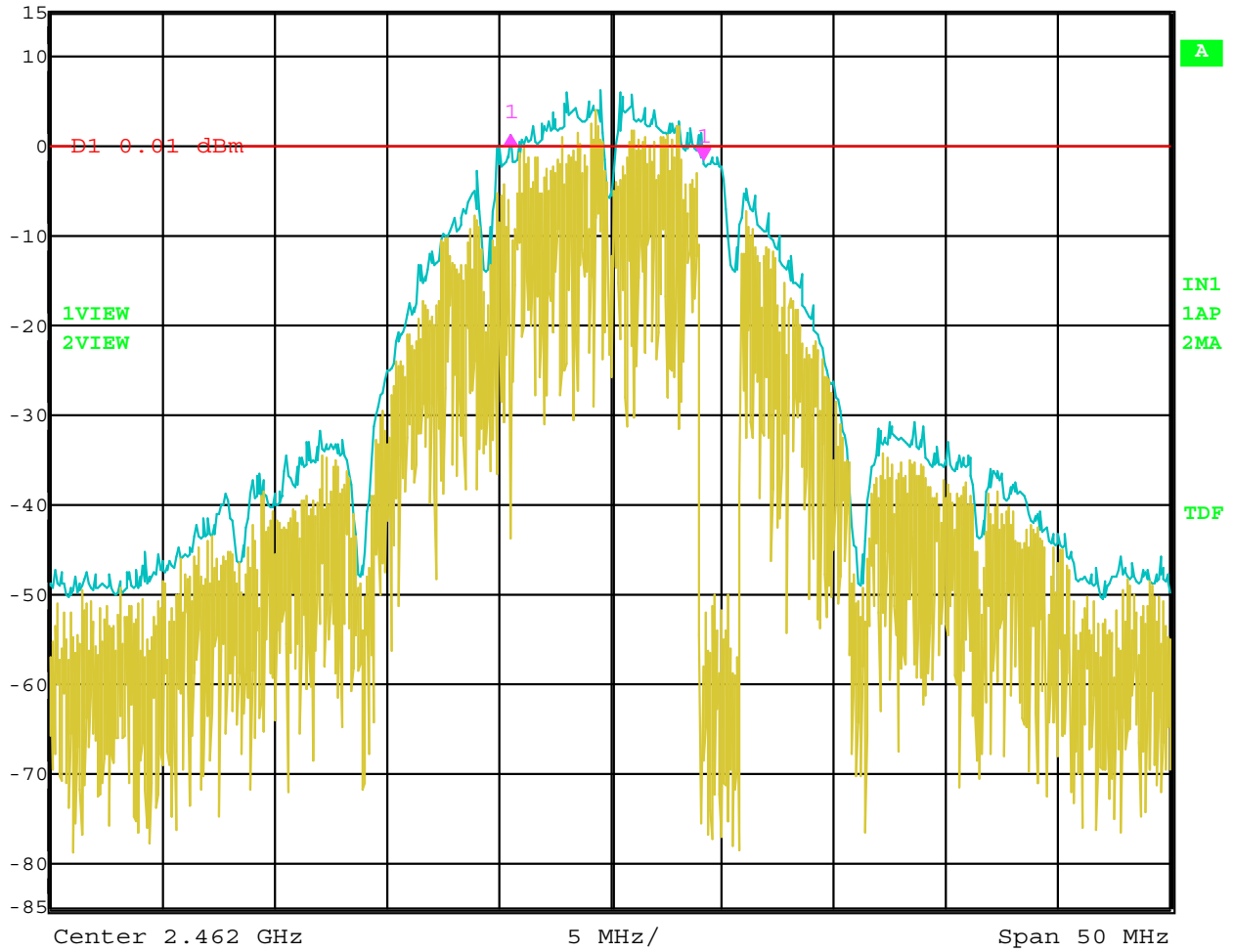


Date: 18.MAR.2005 05:18:14

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



Ref Lvl	Delta 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	2.67 dB	VBW	300 kHz		
	-8.61723447 MHz	SWT	12.5 ms	Unit	dBm

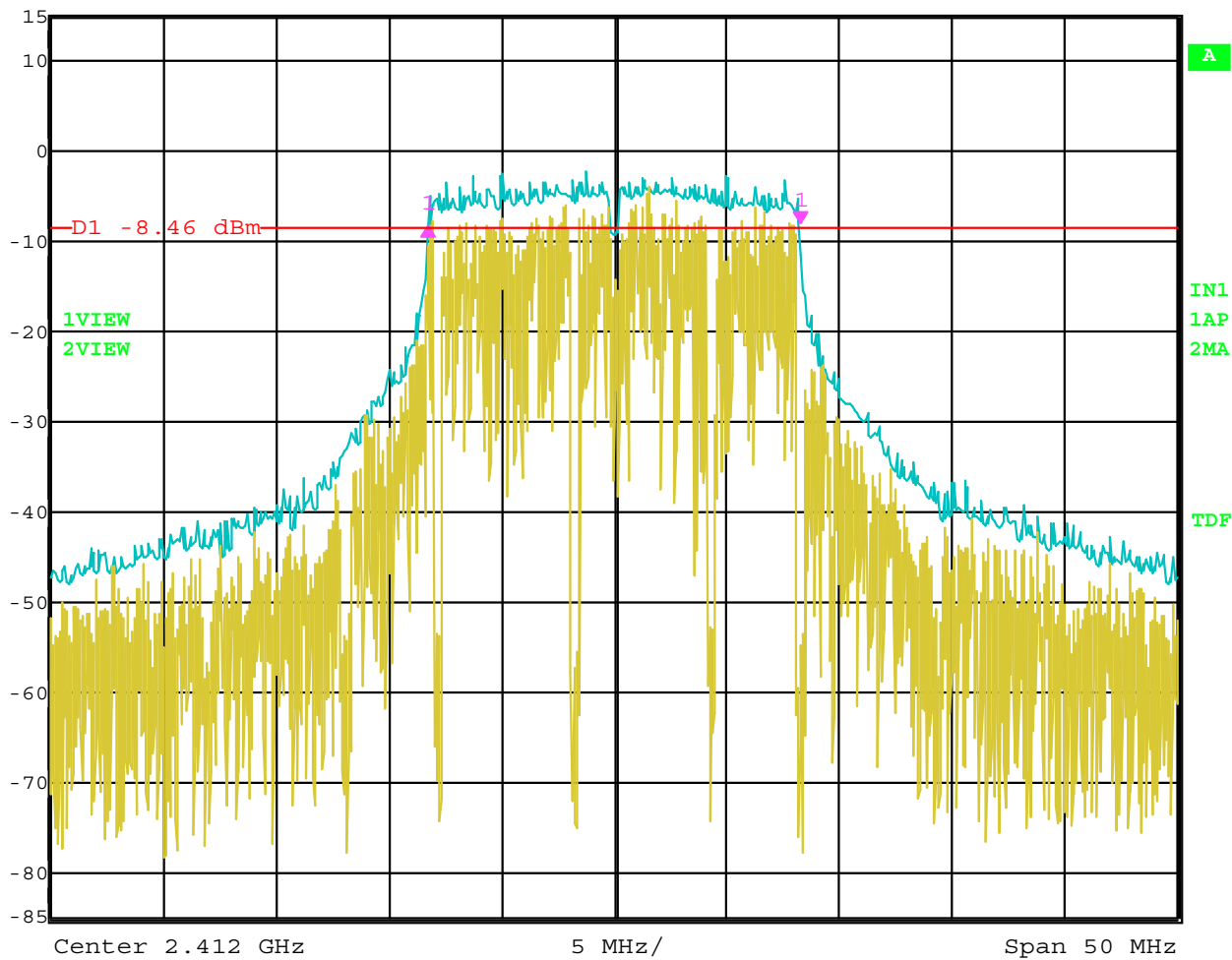


Date: 18.MAR.2005 05:19:46

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



Ref Lvl	Delta 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-0.24 dB	VBW	300 kHz		
	-16.53306613 MHz	SWT	12.5 ms	Unit	dBm

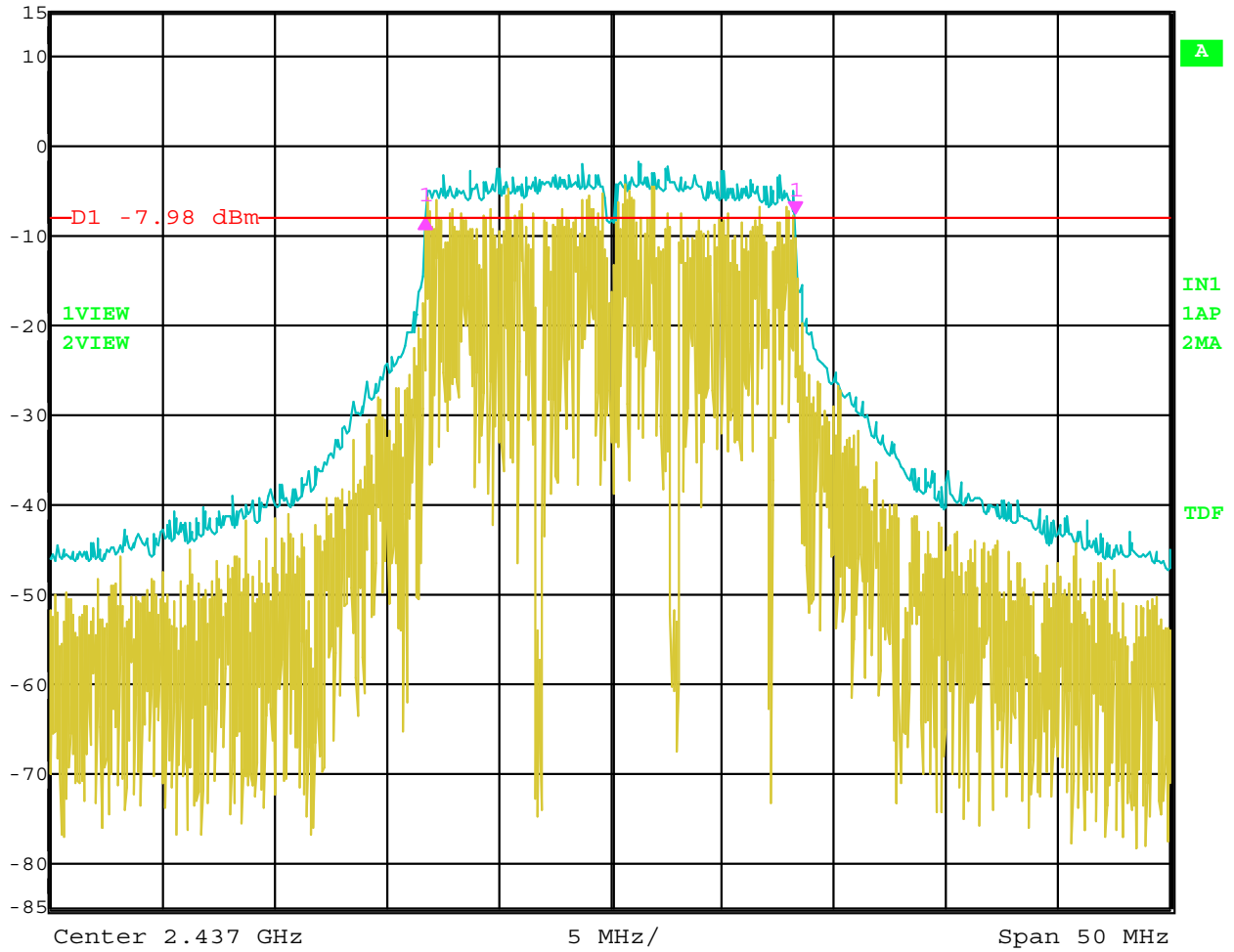


Date: 18.MAR.2005 05:29:05

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



Ref Lvl	Delta 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-0.54 dB	VBW	300 kHz		
	-16.53306613 MHz	SWT	12.5 ms	Unit	dBm

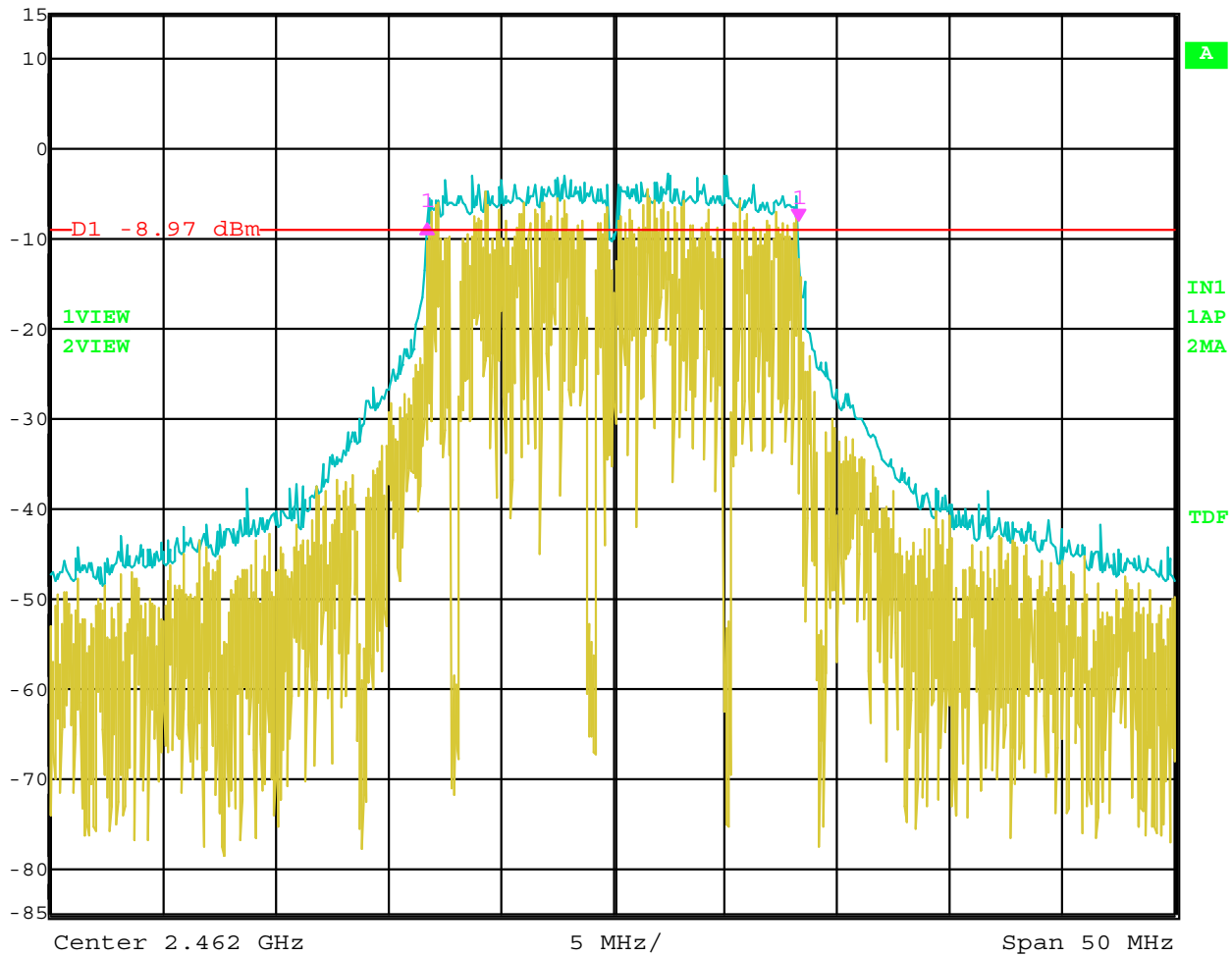


Date: 18.MAR.2005 05:27:17

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



Ref Lvl	Delta 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-0.15 dB	VBW	300 kHz		
	-16.53306613 MHz	SWT	12.5 ms	Unit	dBm



Date: 18.MAR.2005 05:24:58

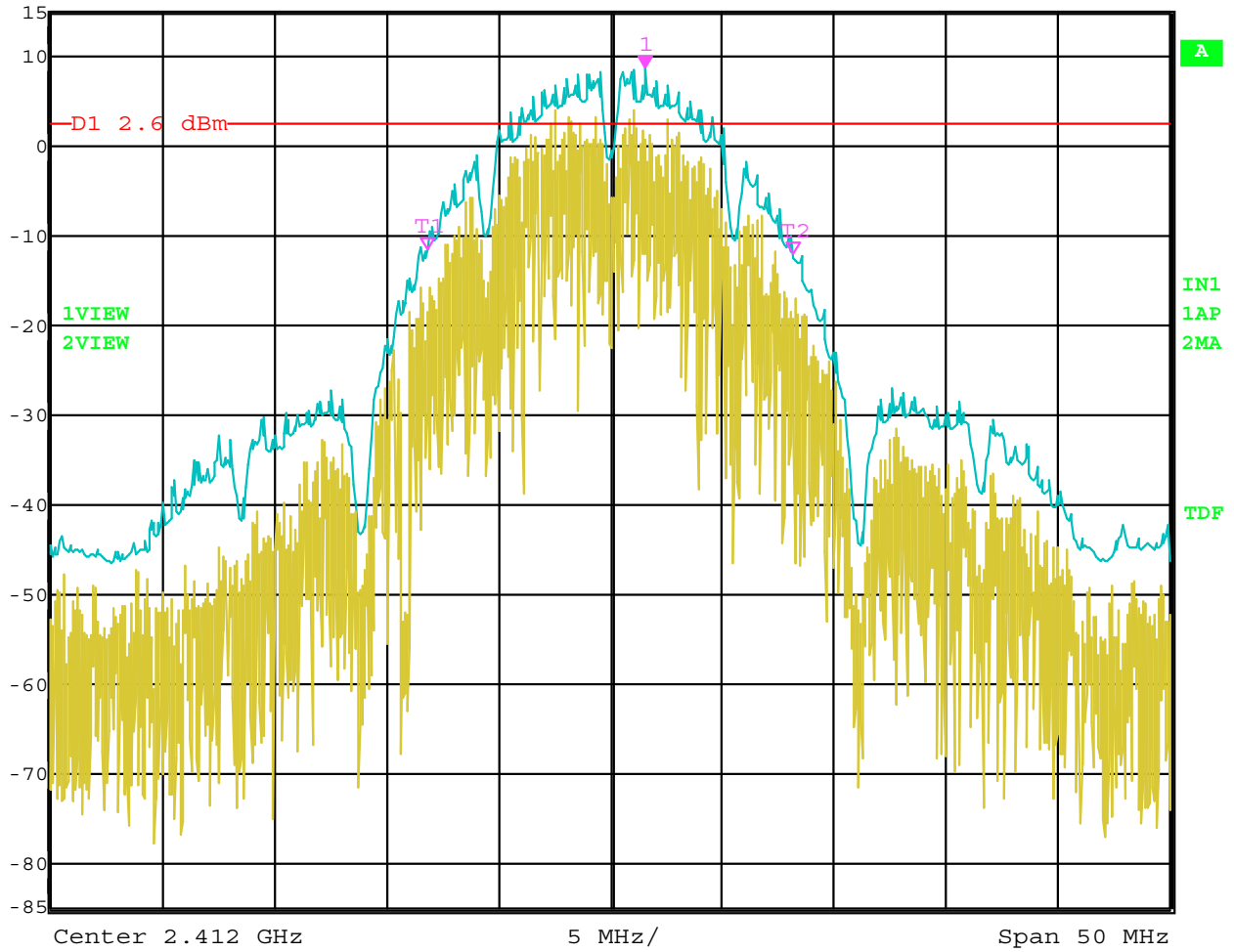
Bandwidth 6 dB – Channel 11 – 802.11 g Mode – Phycomp Antenna

-20 dB BANDWIDTH

DATA SHEETS



Ref Lvl	Marker 1 [T2 ndB]	RBW	100 kHz	RF Att	40 dB
15 dBm	ndB 20.00 dB	VBW	300 kHz		
	BW 16.33266533 MHz	SWT	12.5 ms	Unit	dBm

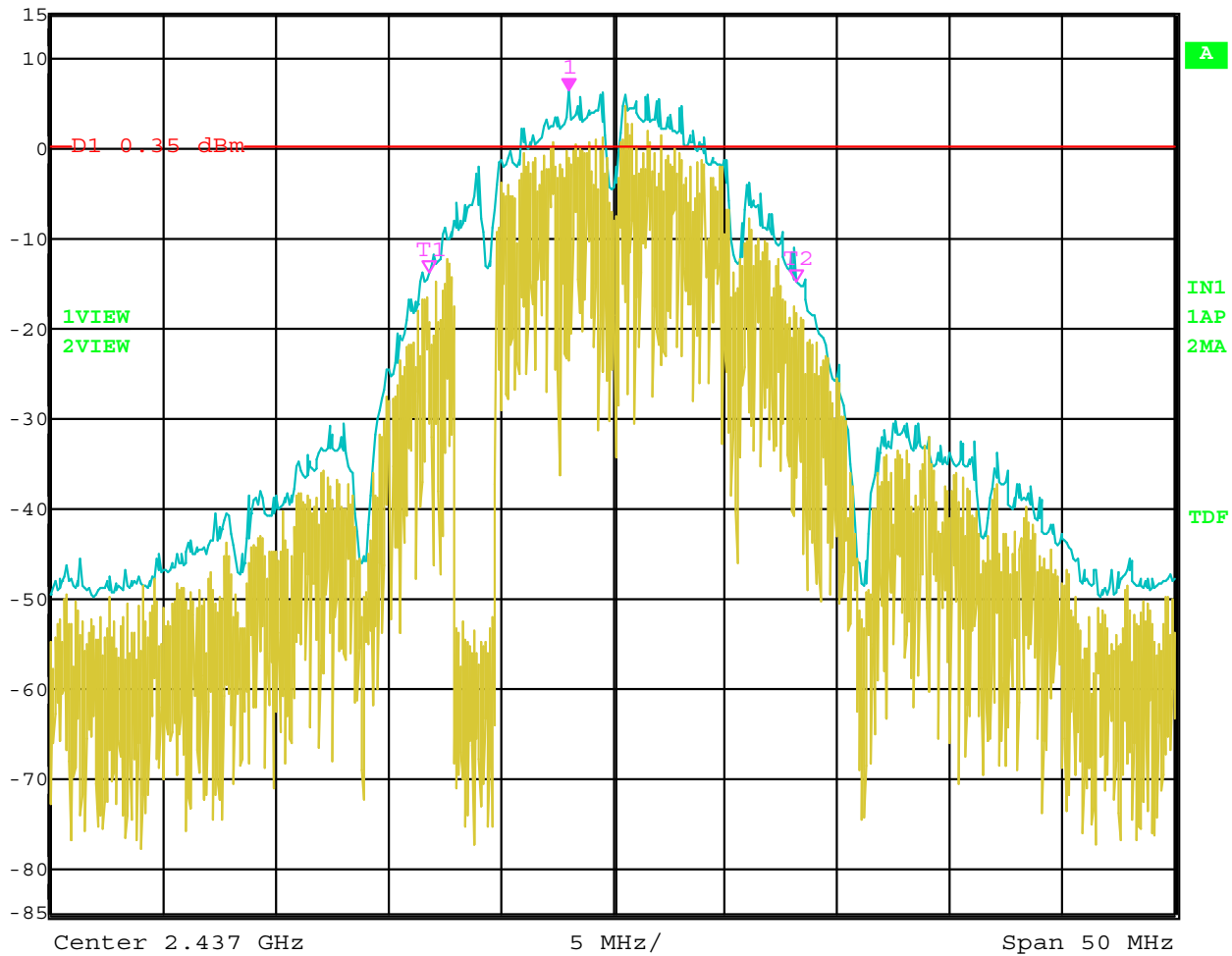


Date: 18.MAR.2005 05:17:13

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



Ref Lvl	Marker 1 [T2 ndB]	RBW	100 kHz	RF Att	40 dB
15 dBm	ndB 20.00 dB	VBW	300 kHz		
	BW 16.33266533 MHz	SWT	12.5 ms	Unit	dBm

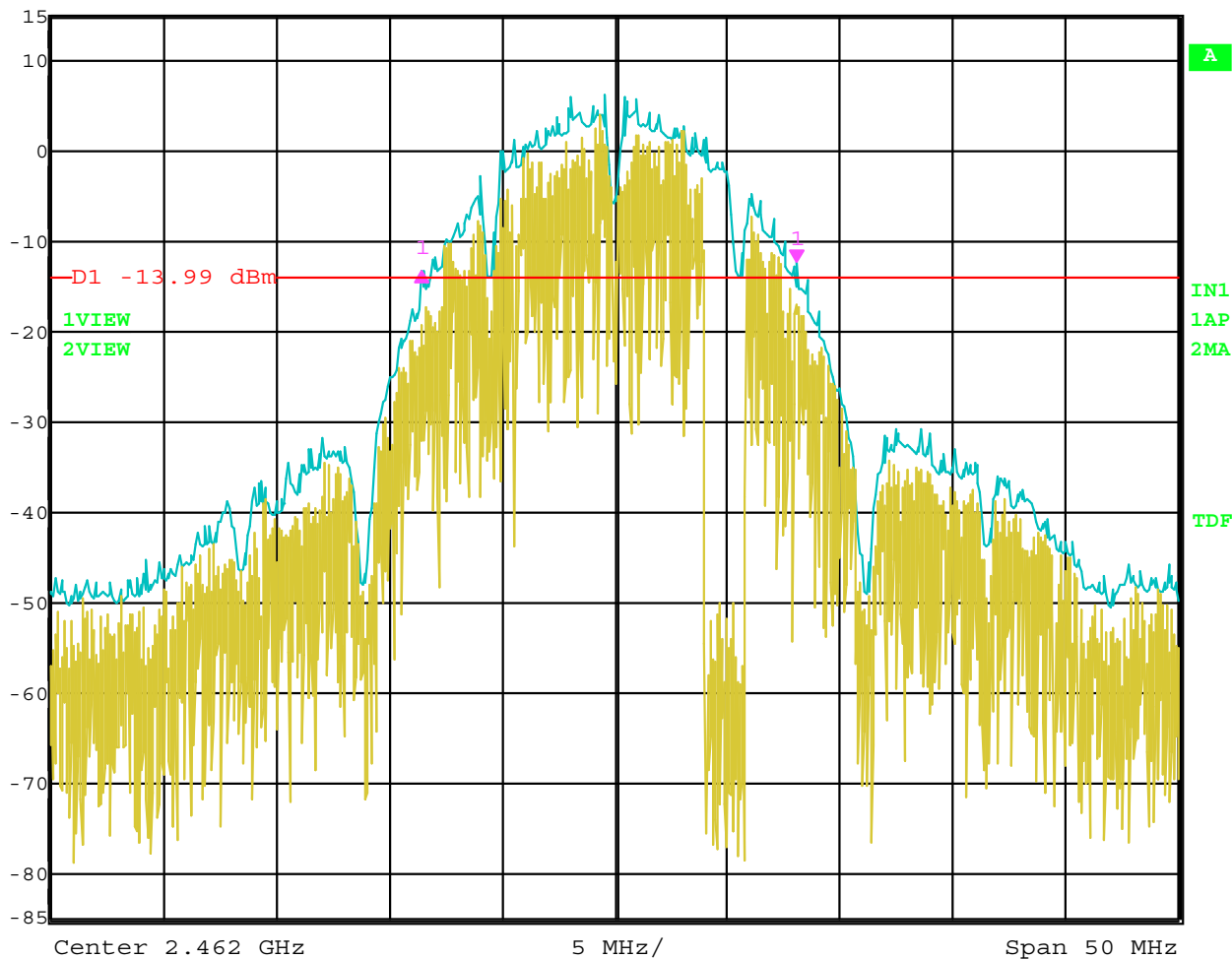


Date: 18.MAR.2005 05:18:47

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



Delta 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -0.89 dB VBW 300 kHz
15 dBm -16.63326653 MHz SWT 12.5 ms Unit dBm

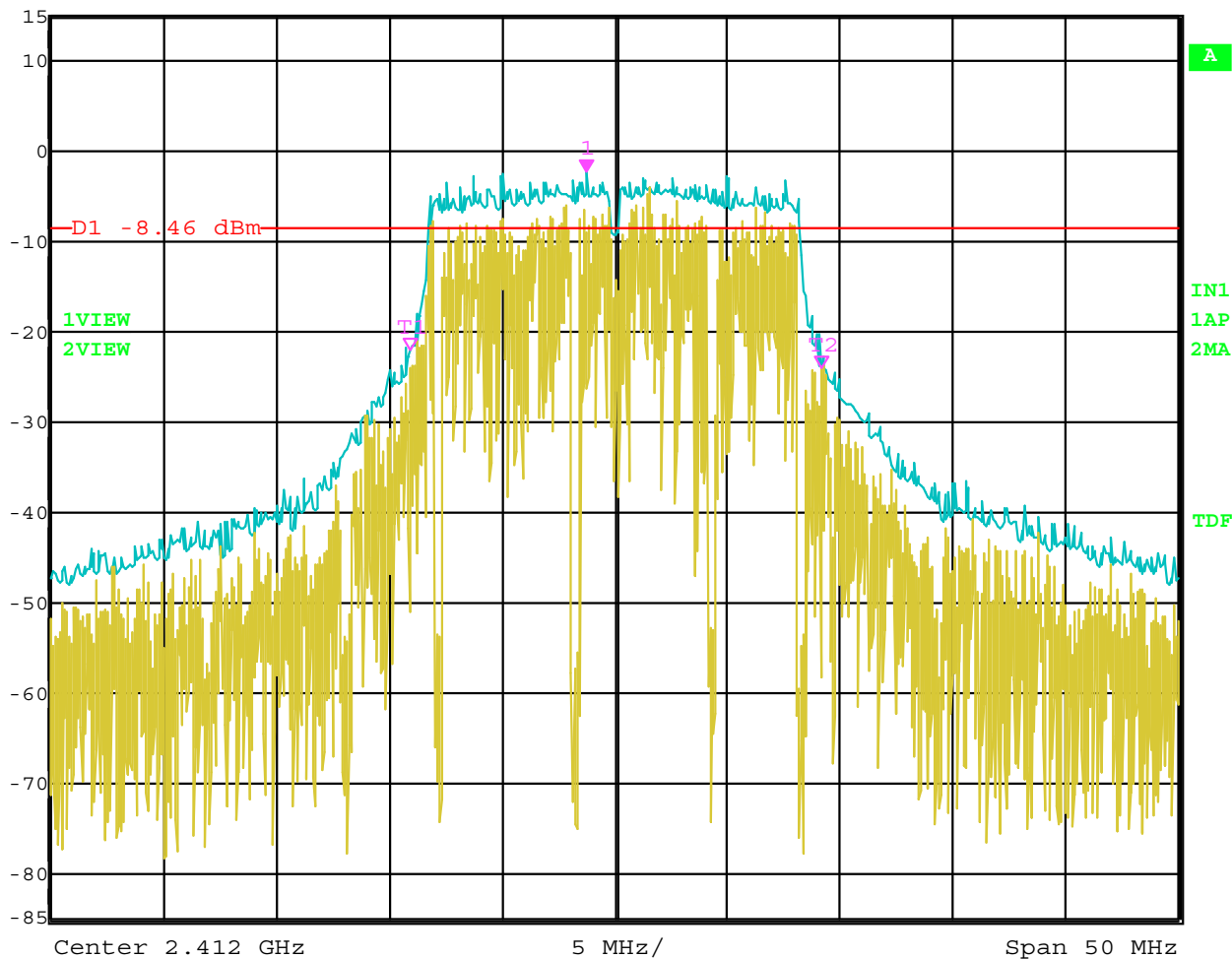


Date: 18.MAR.2005 05:20:59

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



Ref Lvl	Marker 1 [T2 ndB]	RBW	100 kHz	RF Att	40 dB
15 dBm	ndB 20.00 dB	VBW	300 kHz		
	BW 18.23647295 MHz	SWT	12.5 ms	Unit	dBm

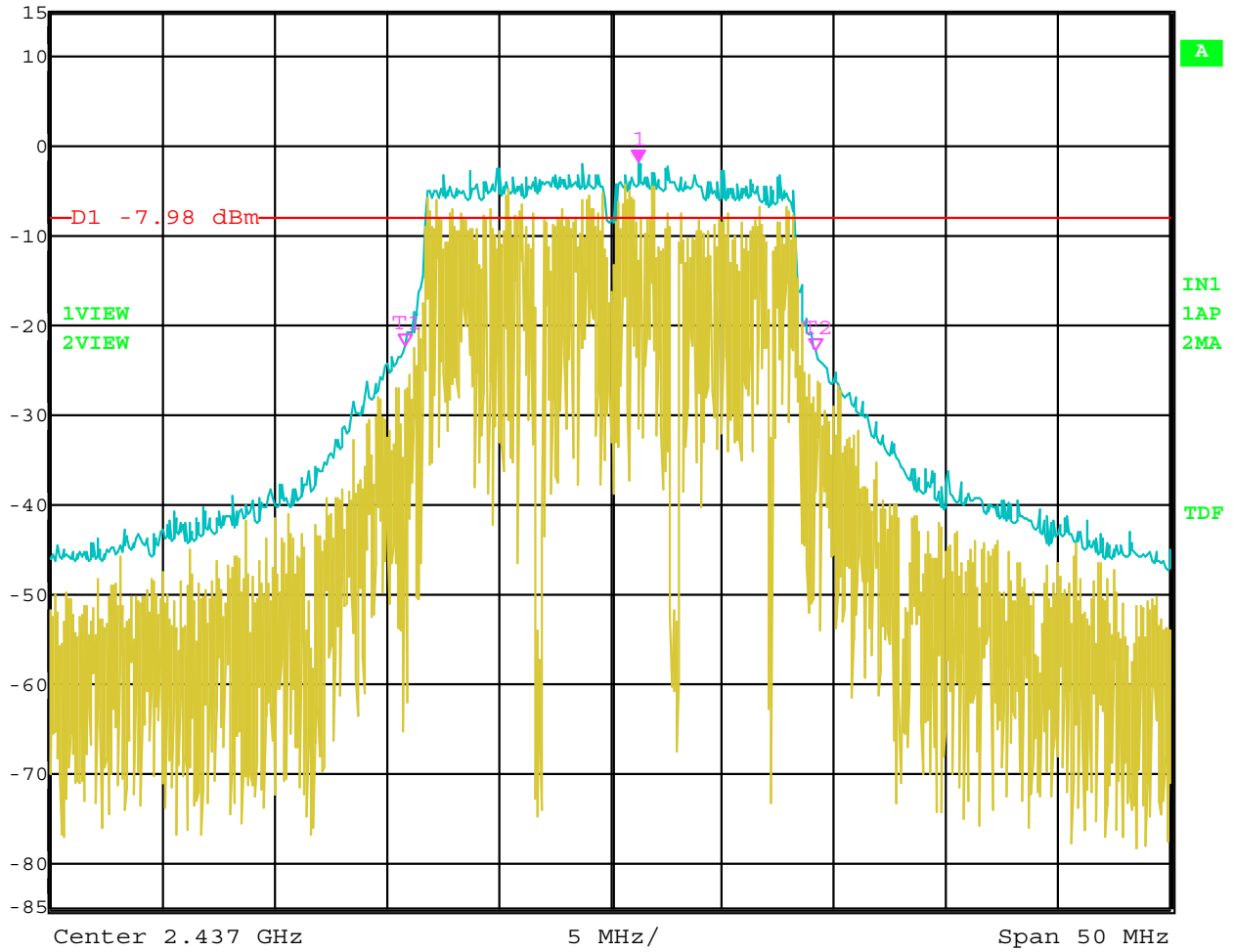


Date: 18.MAR.2005 05:30:05

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



Ref Lvl	Marker 1 [T2 ndB]	RBW	100 kHz	RF Att	40 dB
15 dBm	ndB 20.00 dB	VBW	300 kHz		
	BW 18.33667335 MHz	SWT	12.5 ms	Unit	dBm

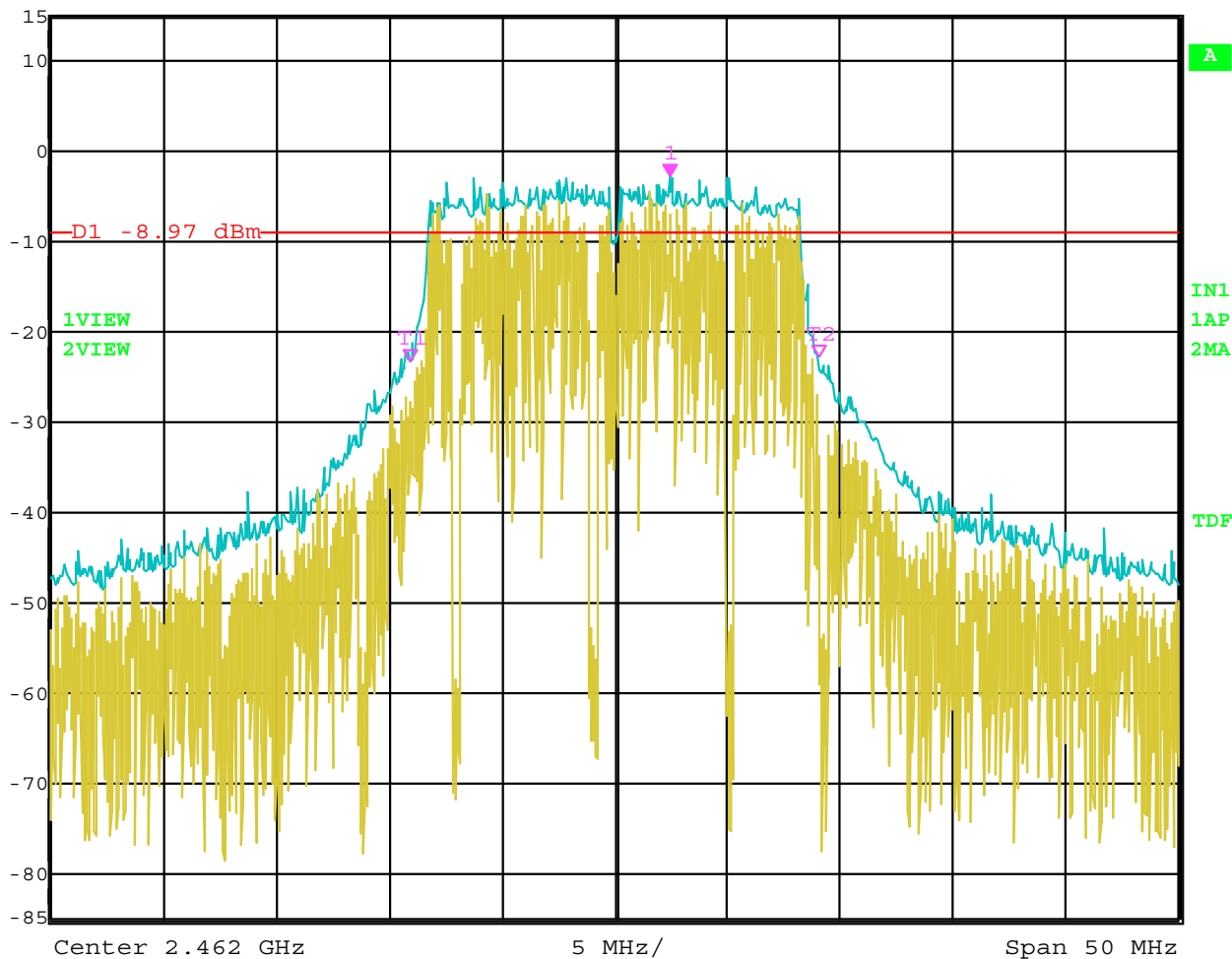


Date: 18.MAR.2005 05:27:48

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



Ref Lvl	Marker 1 [T2 ndB]	RBW	100 kHz	RF Att	40 dB
15 dBm	ndB 20.00 dB	VBW	300 kHz		
	BW 18.13627255 MHz	SWT	12.5 ms	Unit	dBm



Date: 18.MAR.2005 05:25:29

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

PEAK POWER OUTPUT

DATA SHEETS

PEAK OUTPUT POWER

Intel Corporation

Intel Mini PCI Type 3B 802.11 BG Wireless LAN Adapter

MODEL: WM3B2200BG

For use in the Dell Agency Series #: PP17L

With Phycomp Antenna

802.11 b Mode (Worst Case Rate is 1 Mbps)

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

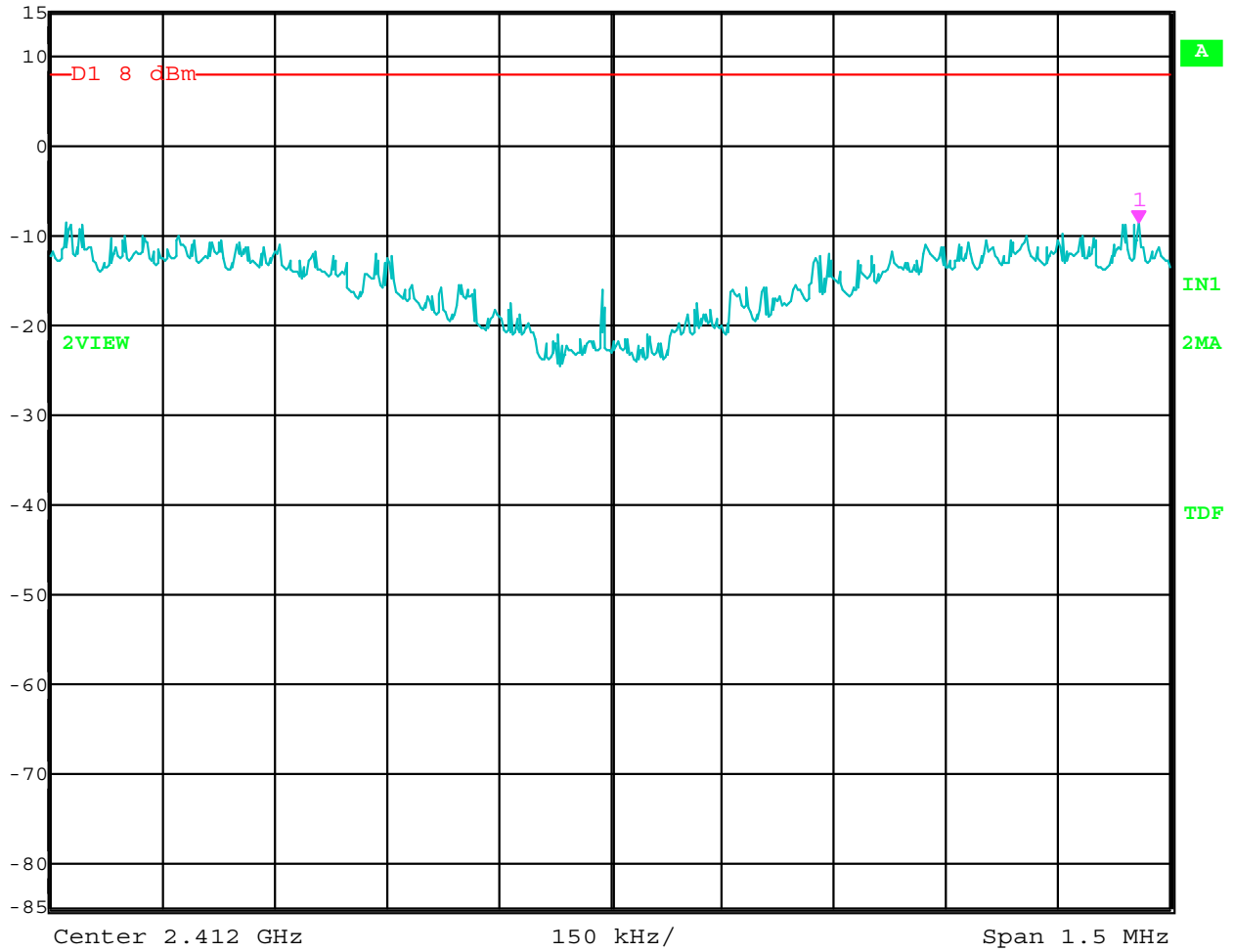
802.11 g Mode (Worst Case Rate is 6 Mbps)

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

PEAK POWER SPECTRAL DENSITY
DATA SHEETS



Ref Lvl	Marker 1 [T2]	RBW	3 kHz	RF Att	40 dB
15 dBm	-8.68 dBm	VBW	10 kHz		
	2.41270792 GHz	SWT	500 s	Unit	dBm

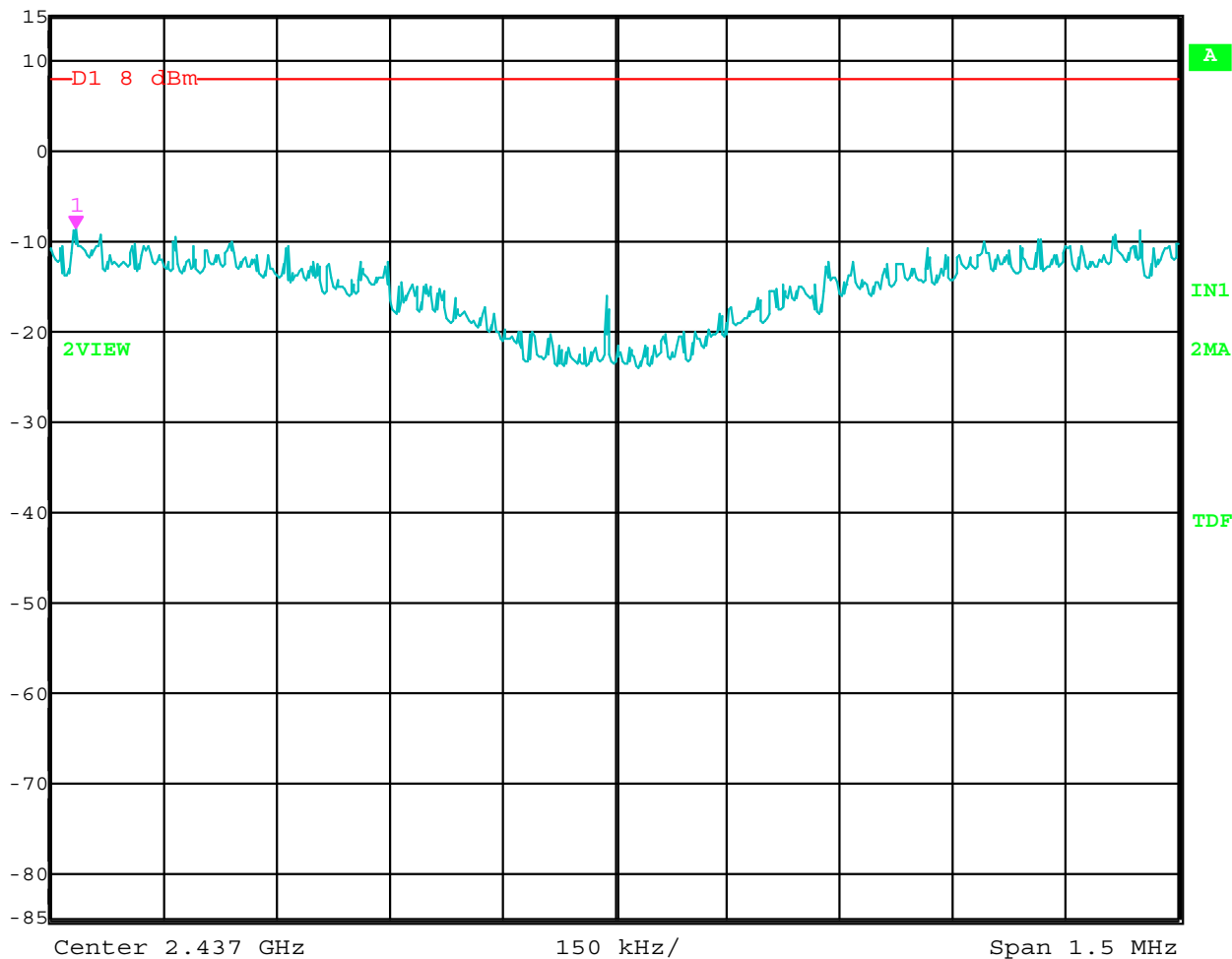


Date: 18.MAR.2005 08:14:34

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



Ref Lvl	Marker 1 [T2]	RBW	3 kHz	RF Att	40 dB
15 dBm	-8.73 dBm	VBW	10 kHz		
	2.43628307 GHz	SWT	500 s	Unit	dBm

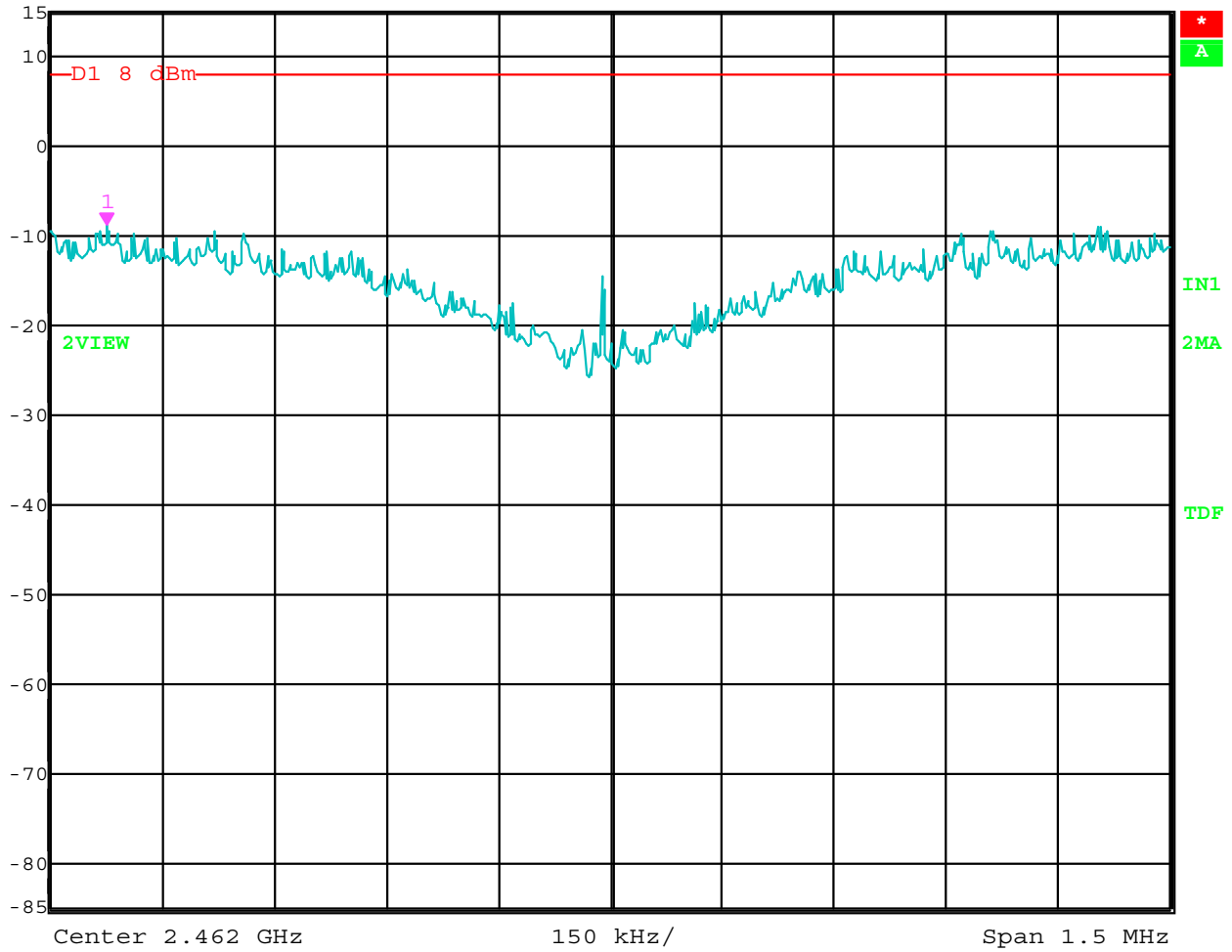


Date: 18.MAR.2005 08:42:29

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



Ref Lvl	Marker 1 [T2]	RBW	3 kHz	RF Att	40 dB
15 dBm	-8.93 dBm	VBW	10 kHz		
	2.46132515 GHz	SWT	500 s	Unit	dBm

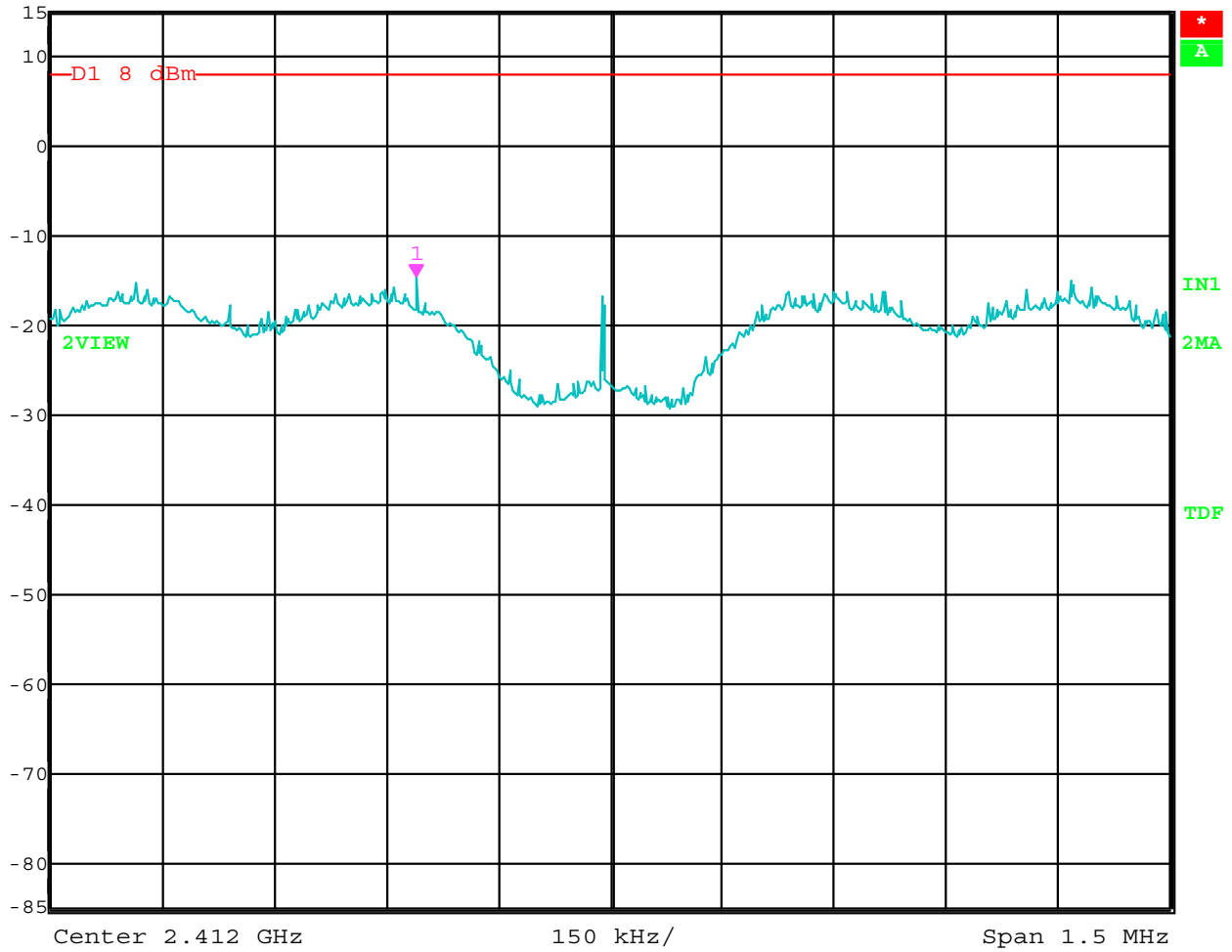


Date: 18.MAR.2005 08:52:58

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



Ref Lvl	Marker 1 [T2]	RBW	3 kHz	RF Att	40 dB
15 dBm	-14.57 dBm	VBW	10 kHz		
	2.41173998 GHz	SWT	500 s	Unit	dBm

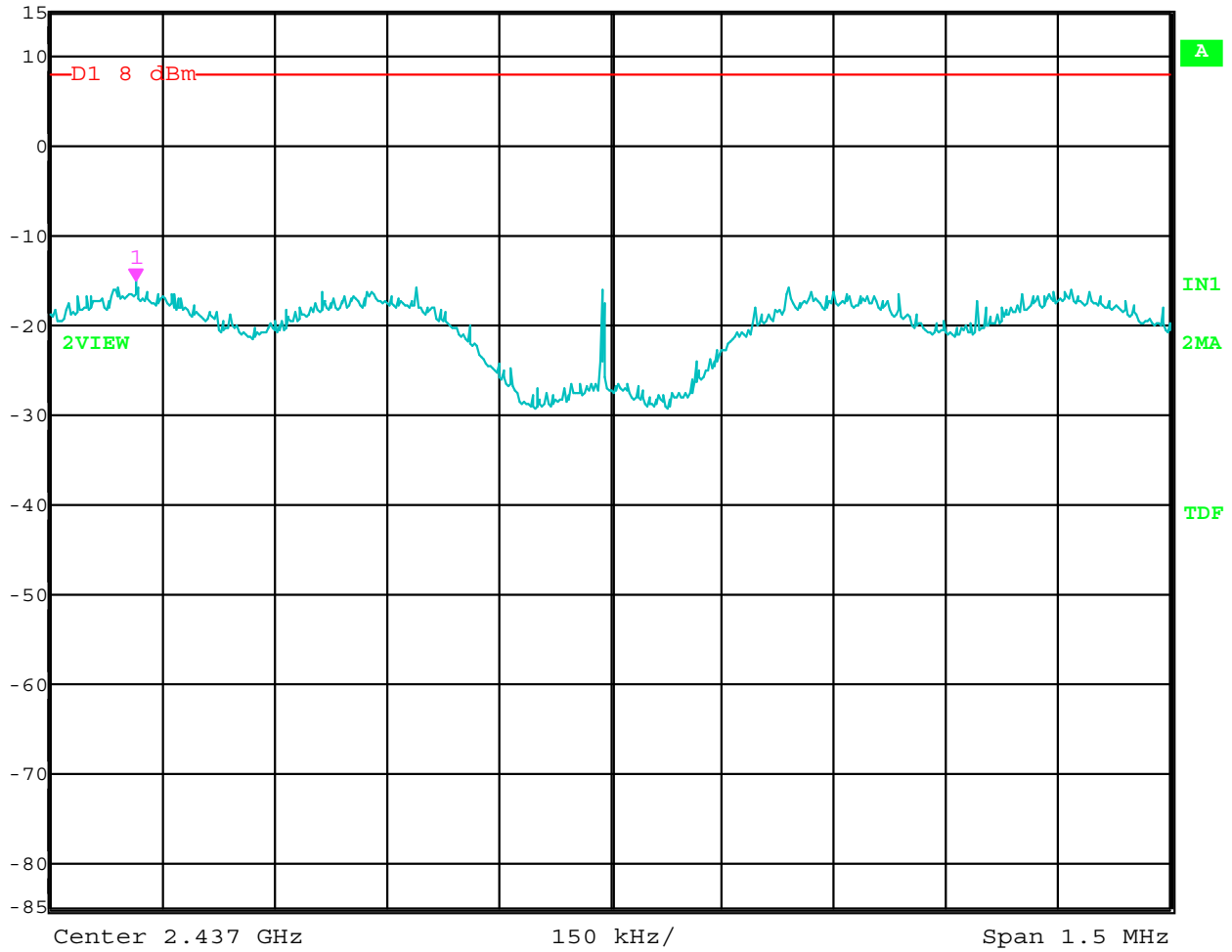


Date: 18.MAR.2005 07:44:05

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



Ref Lvl	Marker 1 [T2]	RBW	3 kHz	RF Att	40 dB
15 dBm	-15.19 dBm	VBW	10 kHz		
	2.43636423 GHz	SWT	500 s	Unit	dBm

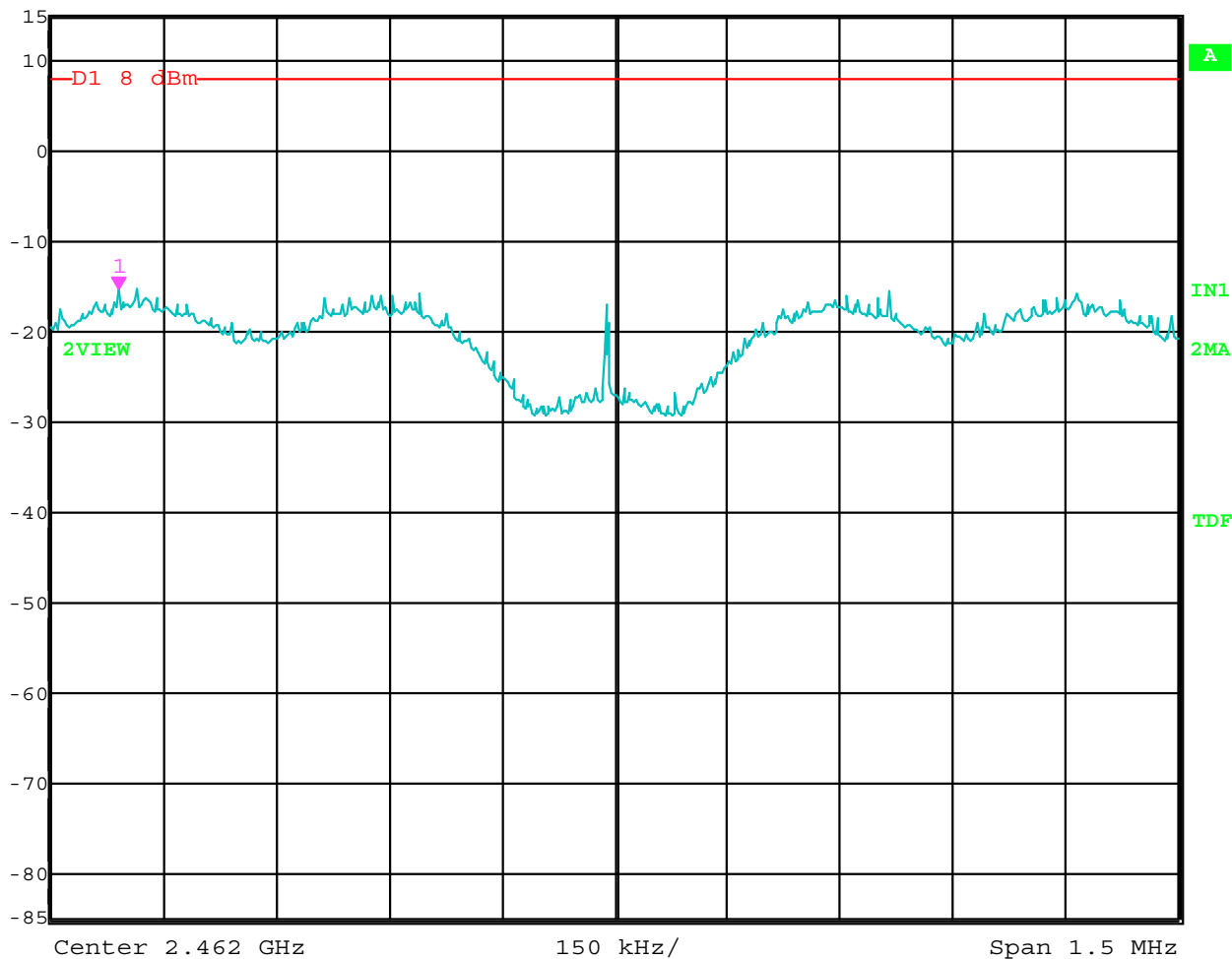


Date: 18.MAR.2005 07:53:31

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



Ref Lvl	Marker 1 [T2]	RBW	3 kHz	RF Att	40 dB
15 dBm	-15.29 dBm	VBW	10 kHz		
	2.46134018 GHz	SWT	500 s	Unit	dBm



Date: 18.MAR.2005 08:02:40

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

RF ANTENNA CONDUCTED

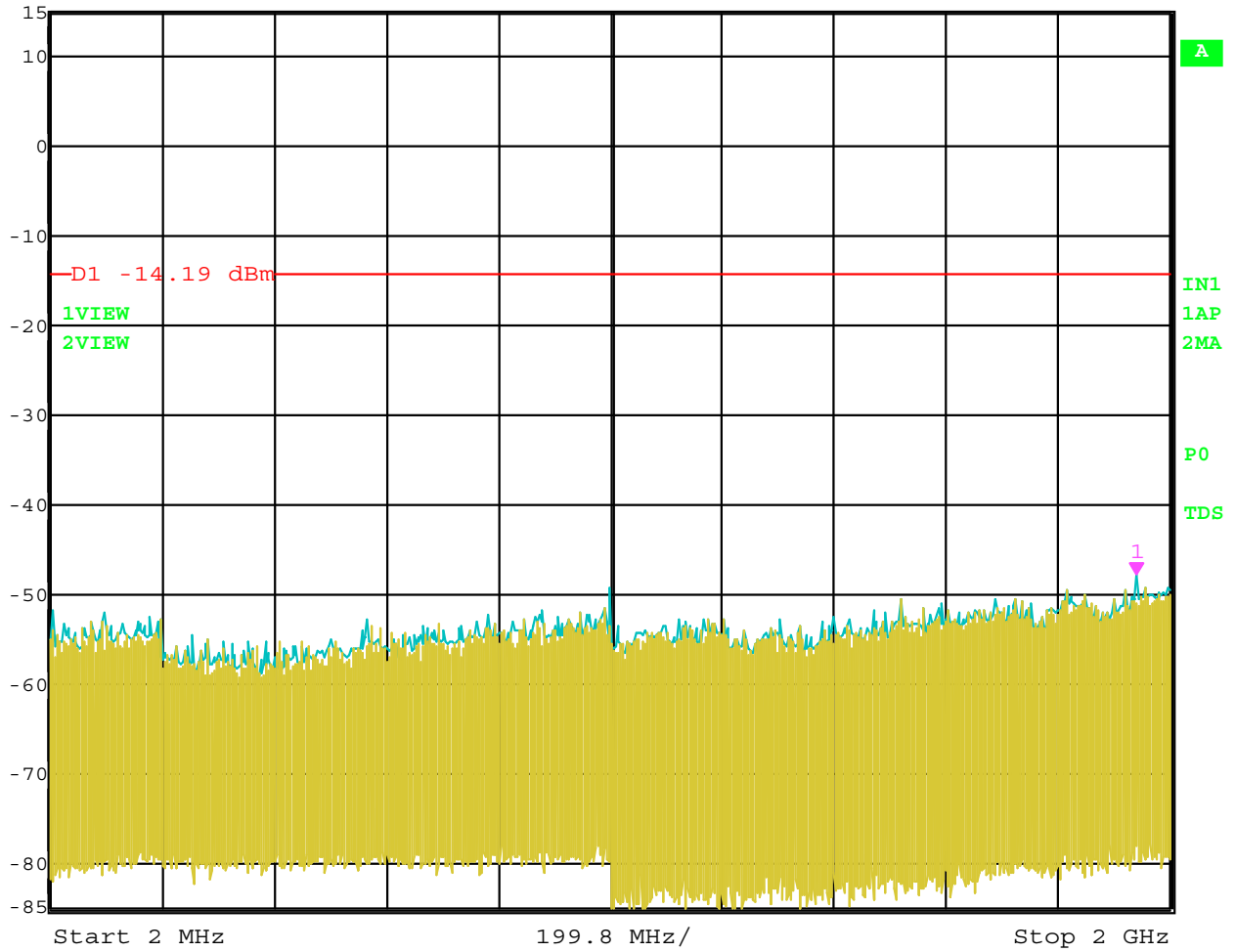
DATA SHEETS



Ref Lvl
15 dBm

Marker 1 [T2]
-47.80 dBm
1.93993988 GHz

RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 1.15 s Unit dBm

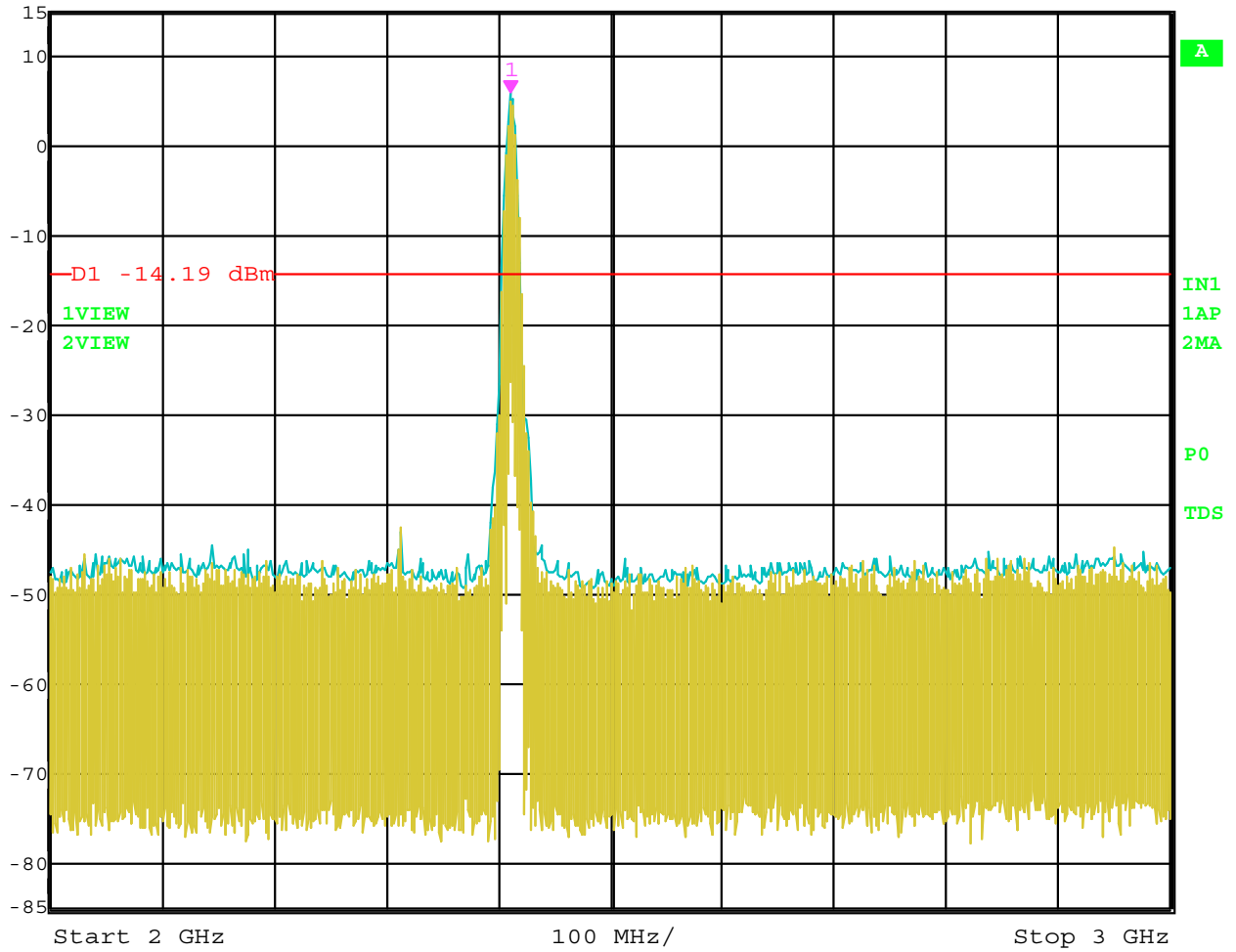


Date: 22.MAR.2005 21:23:40

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



Ref Lvl 15 dBm
Marker 1 [T2] 5.81 dBm
2.41082164 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 250 ms Unit dBm

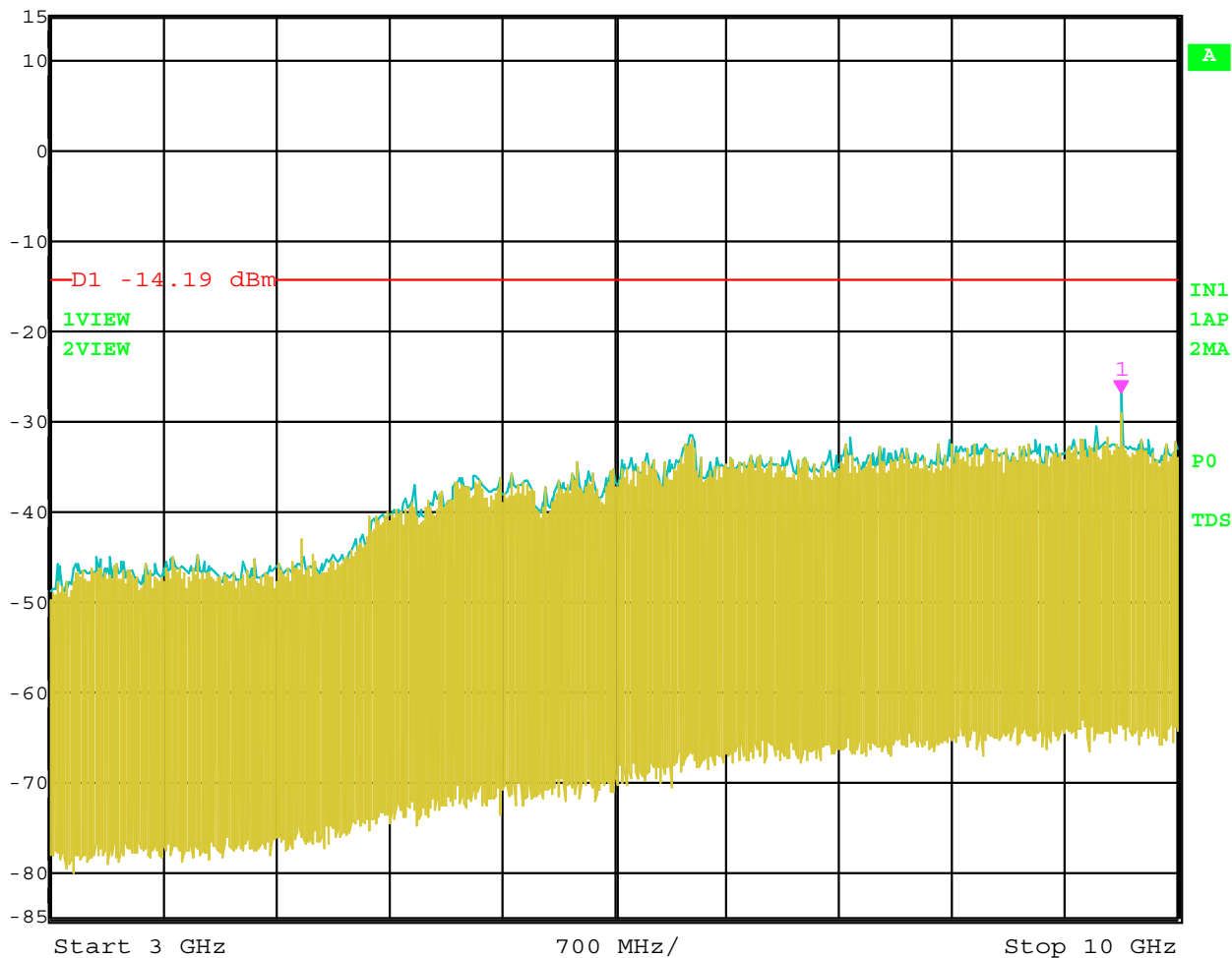


Date: 22.MAR.2005 21:22:31

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



Ref Lvl 15 dBm
Marker 1 [T2] -26.90 dBm
9.64929860 GHz
RBW 100 kHz
RF Att 40 dB
VBW 300 kHz
SWT 1.75 s
Unit dBm

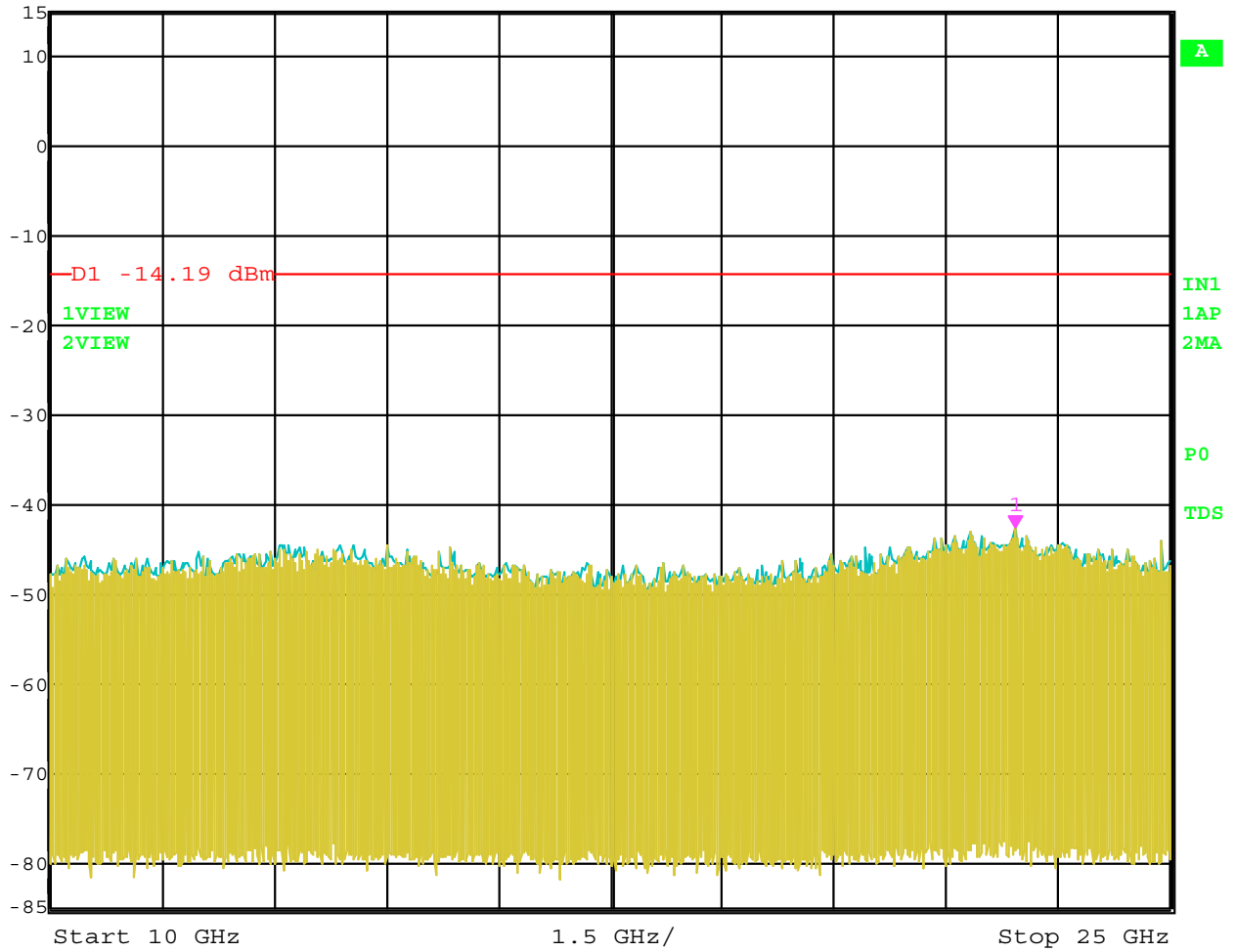


Date: 22.MAR.2005 21:24:24

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



Ref Lvl 15 dBm
Marker 1 [T2] -42.62 dBm
22.92585170 GHz
RBW 100 kHz
RF Att 40 dB
VBW 300 kHz
SWT 3.8 s
Unit dBm

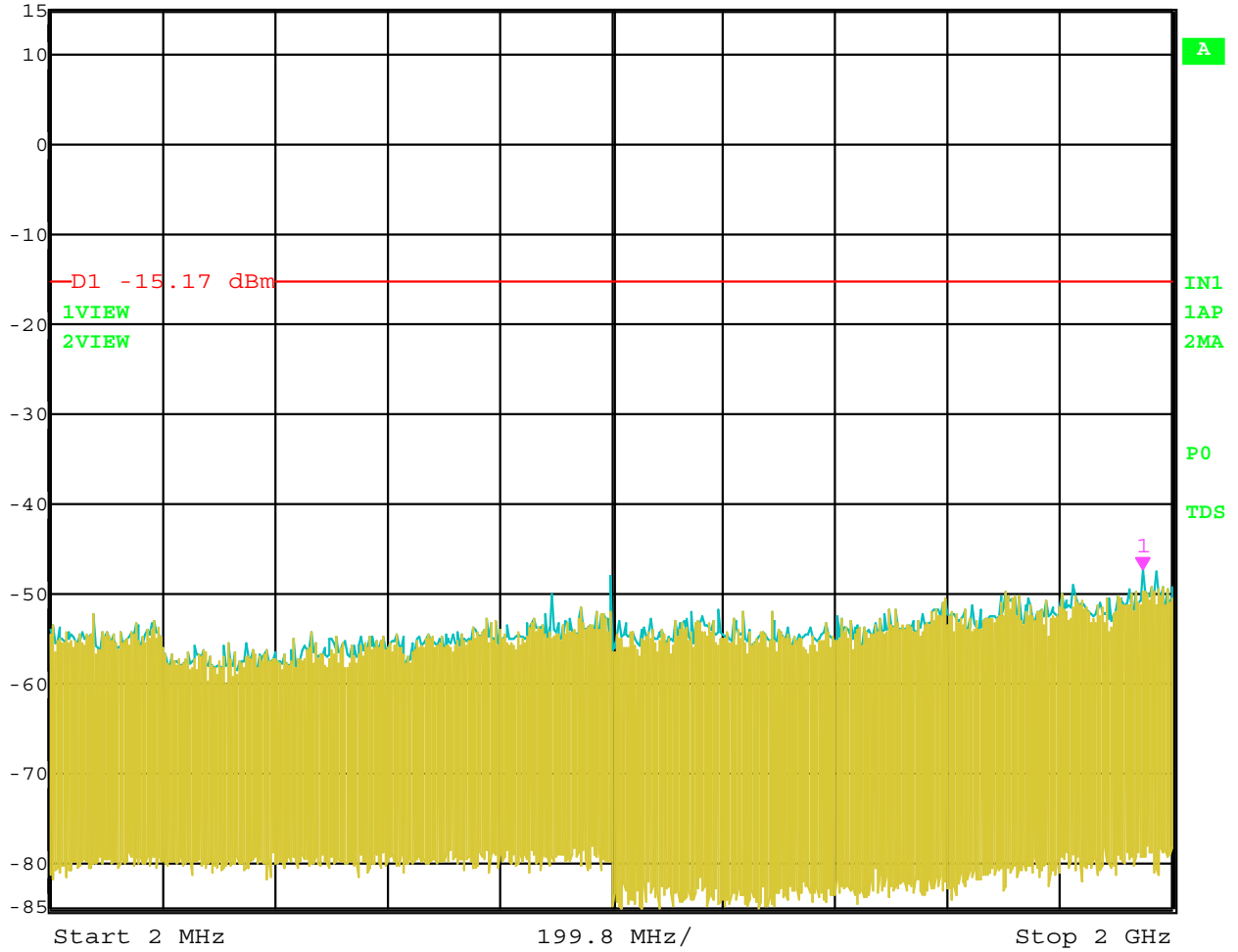


Date: 22.MAR.2005 21:25:07

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



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-47.44 dBm	VBW	300 kHz		
	1.94794790 GHz	SWT	1.15 s	Unit	dBm

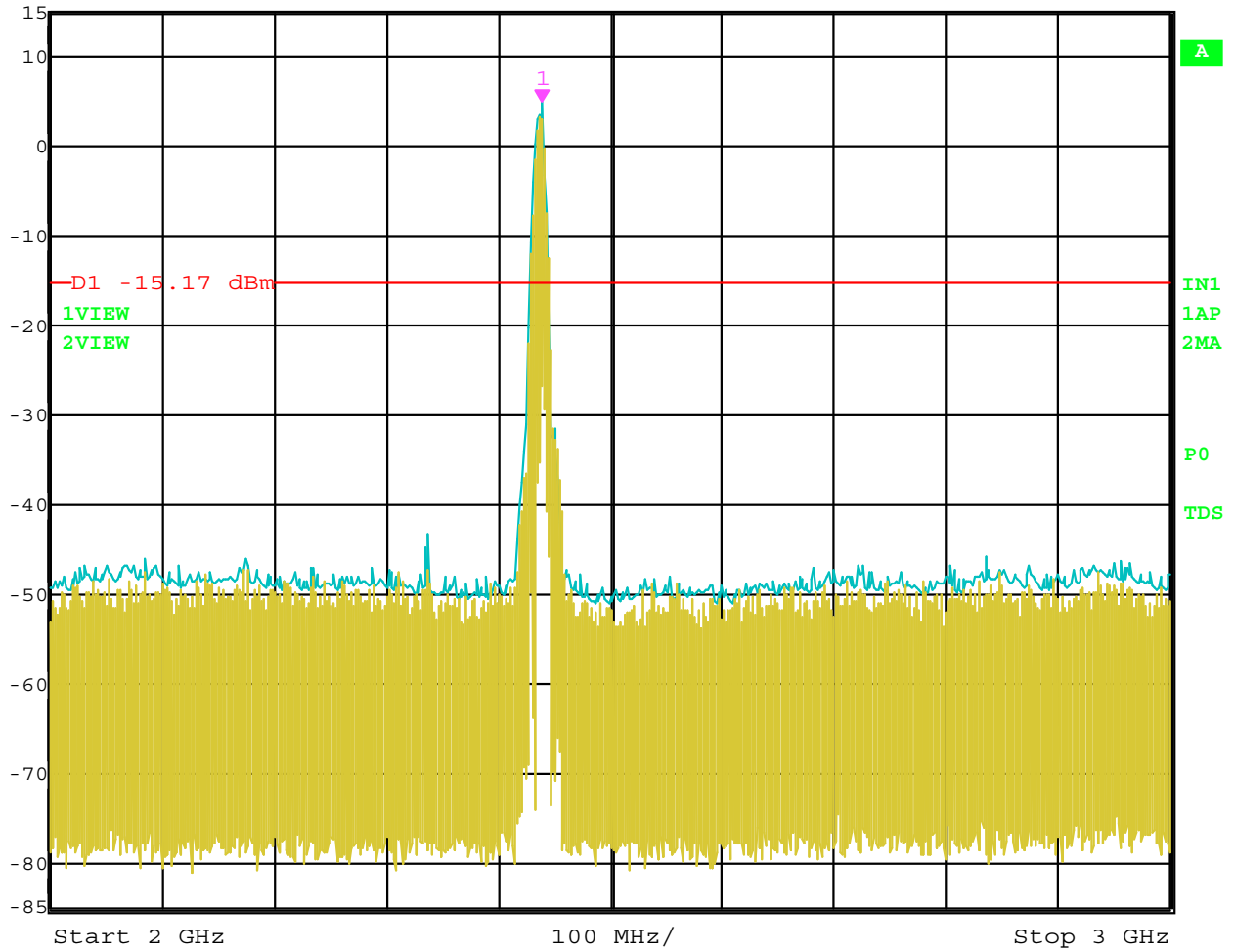


Date: 22.MAR.2005 21:27:03

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



Ref Lvl 15 dBm Marker 1 [T2] 4.83 dBm RBW 100 kHz RF Att 40 dB
2.43887776 GHz VBW 300 kHz Unit dBm
SWT 250 ms

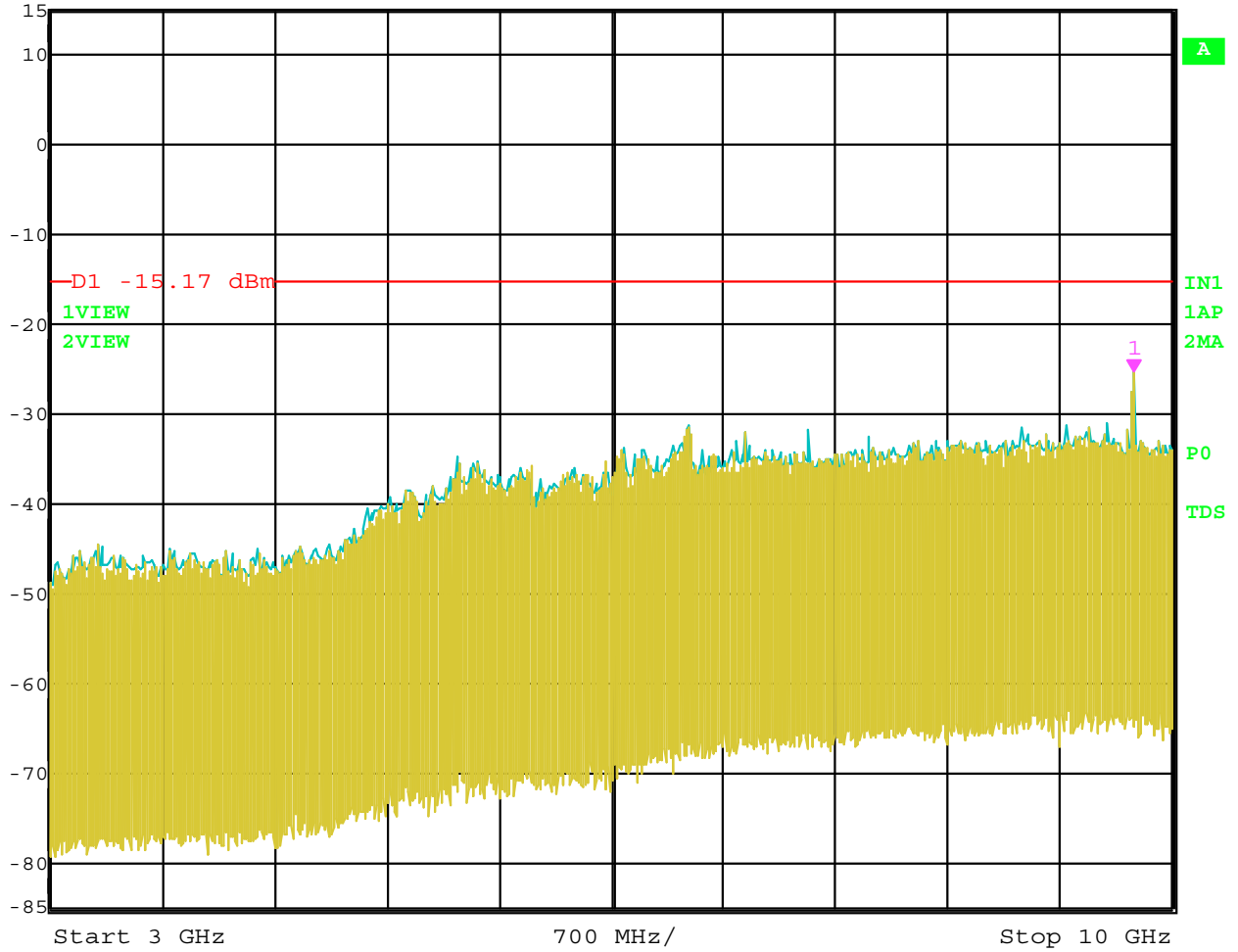


Date: 22.MAR.2005 21:26:12

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



Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-25.30 dBm VBW 300 kHz
9.76152305 GHz SWT 1.75 s Unit dBm

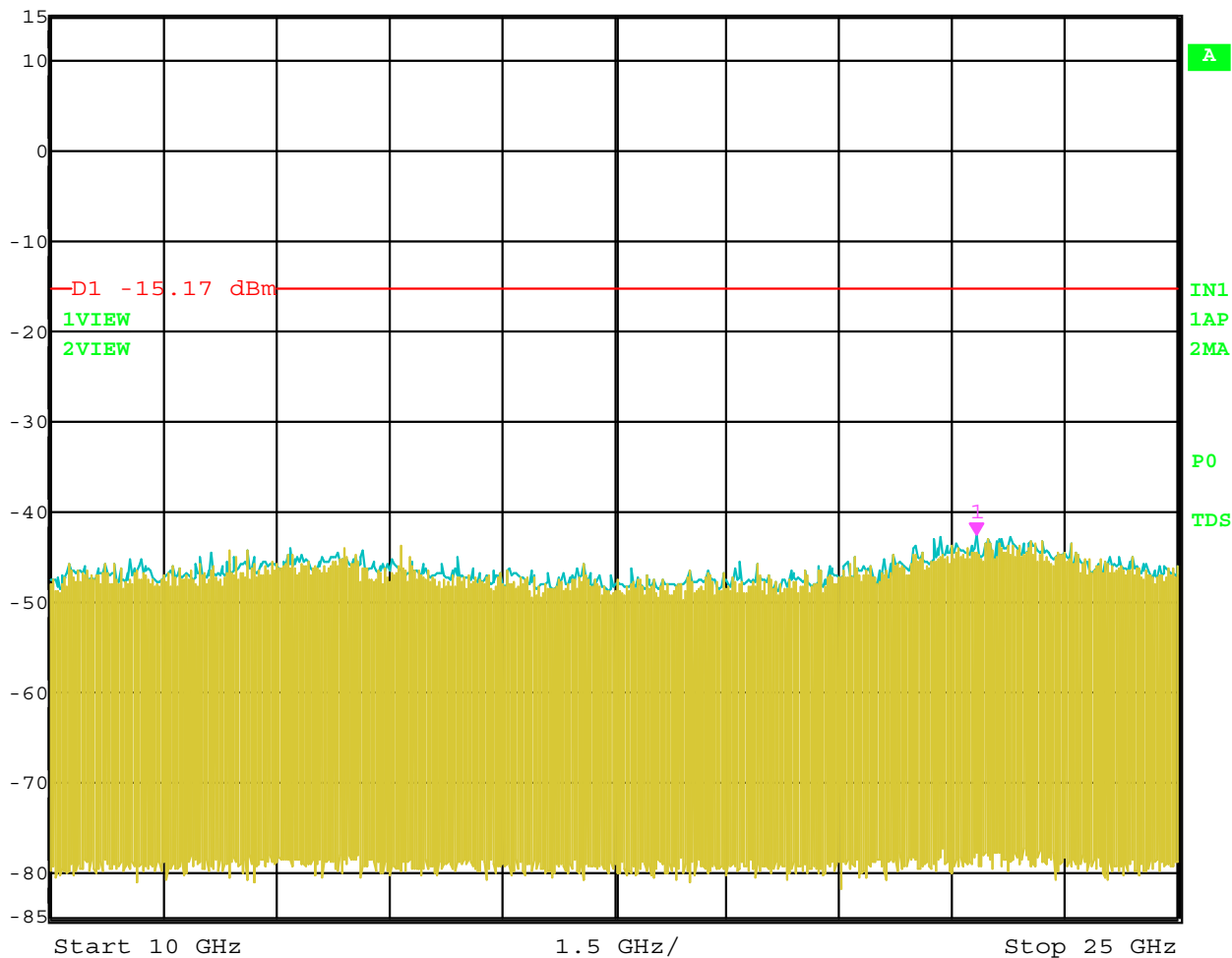


Date: 22.MAR.2005 21:27:39

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



Ref Lvl 15 dBm Marker 1 [T2] -42.63 dBm RBW 100 kHz RF Att 40 dB
22.32464930 GHz VBW 300 kHz Unit dBm
SWT 3.8 s

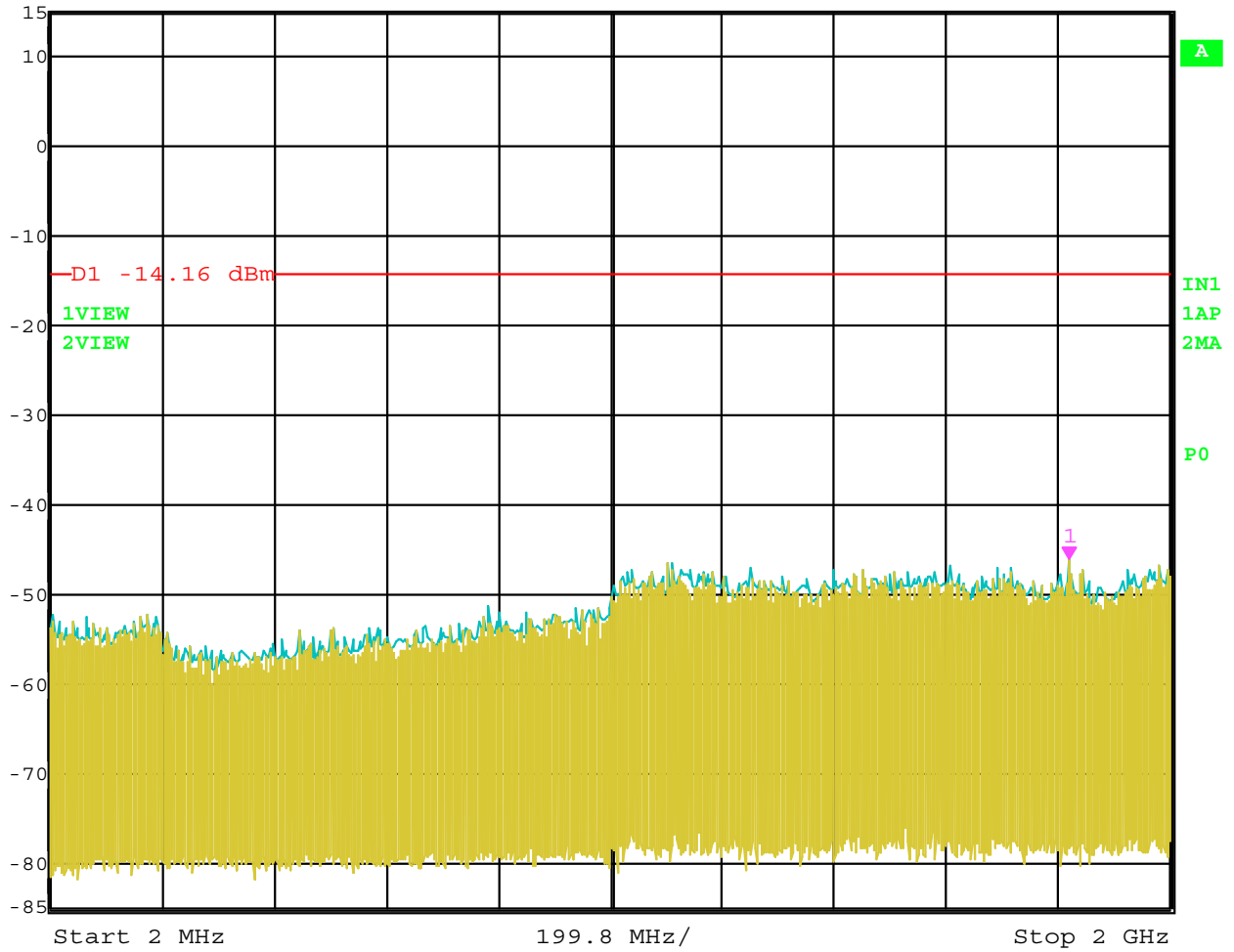


Date: 22.MAR.2005 21:30:44

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



Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-46.04 dBm VBW 300 kHz
1.81981964 GHz SWT 1.15 s Unit dBm

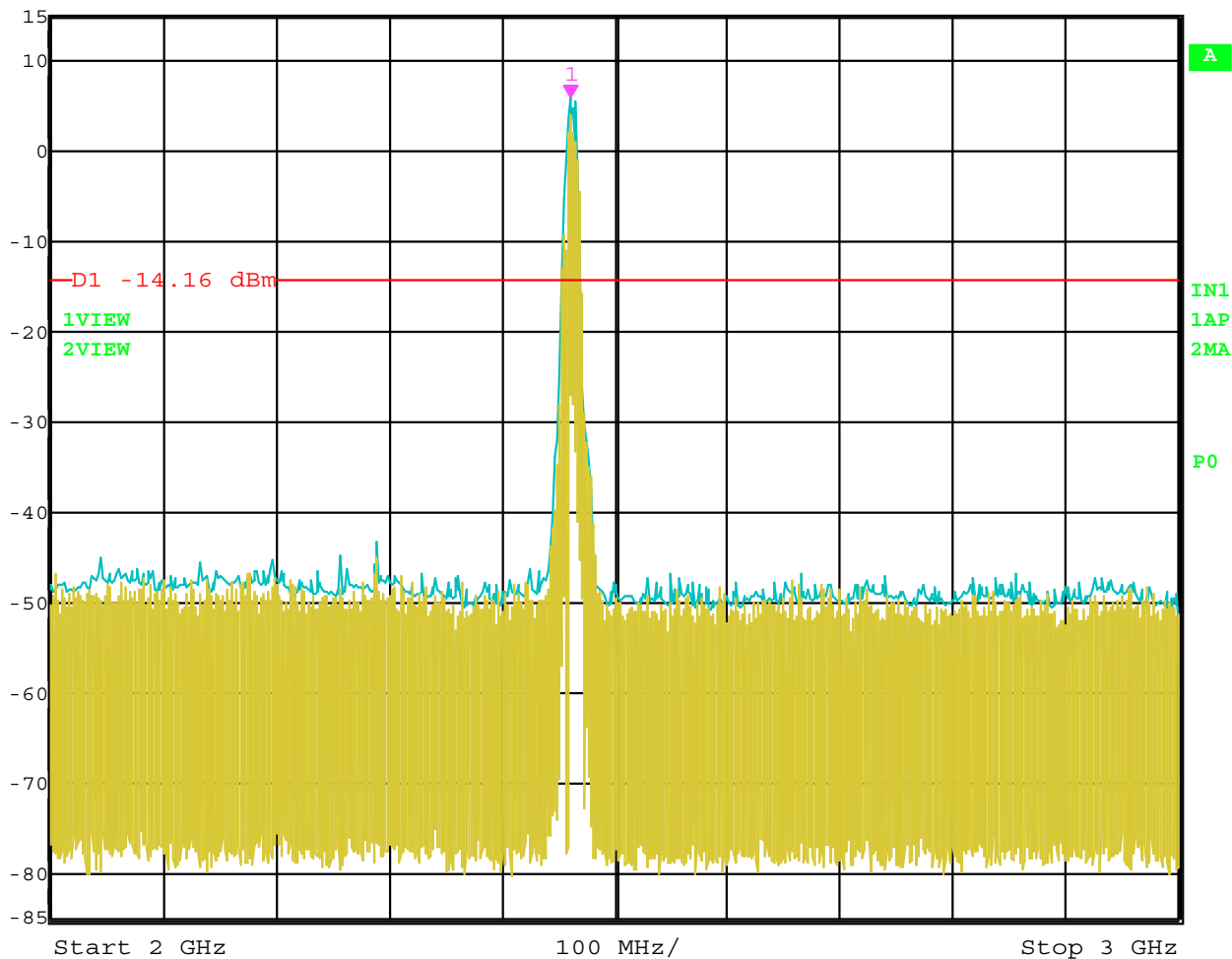


Date: 22.MAR.2005 21:35:11

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



Ref Lvl 15 dBm
Marker 1 [T2] 5.84 dBm
2.46092184 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 250 ms Unit dBm

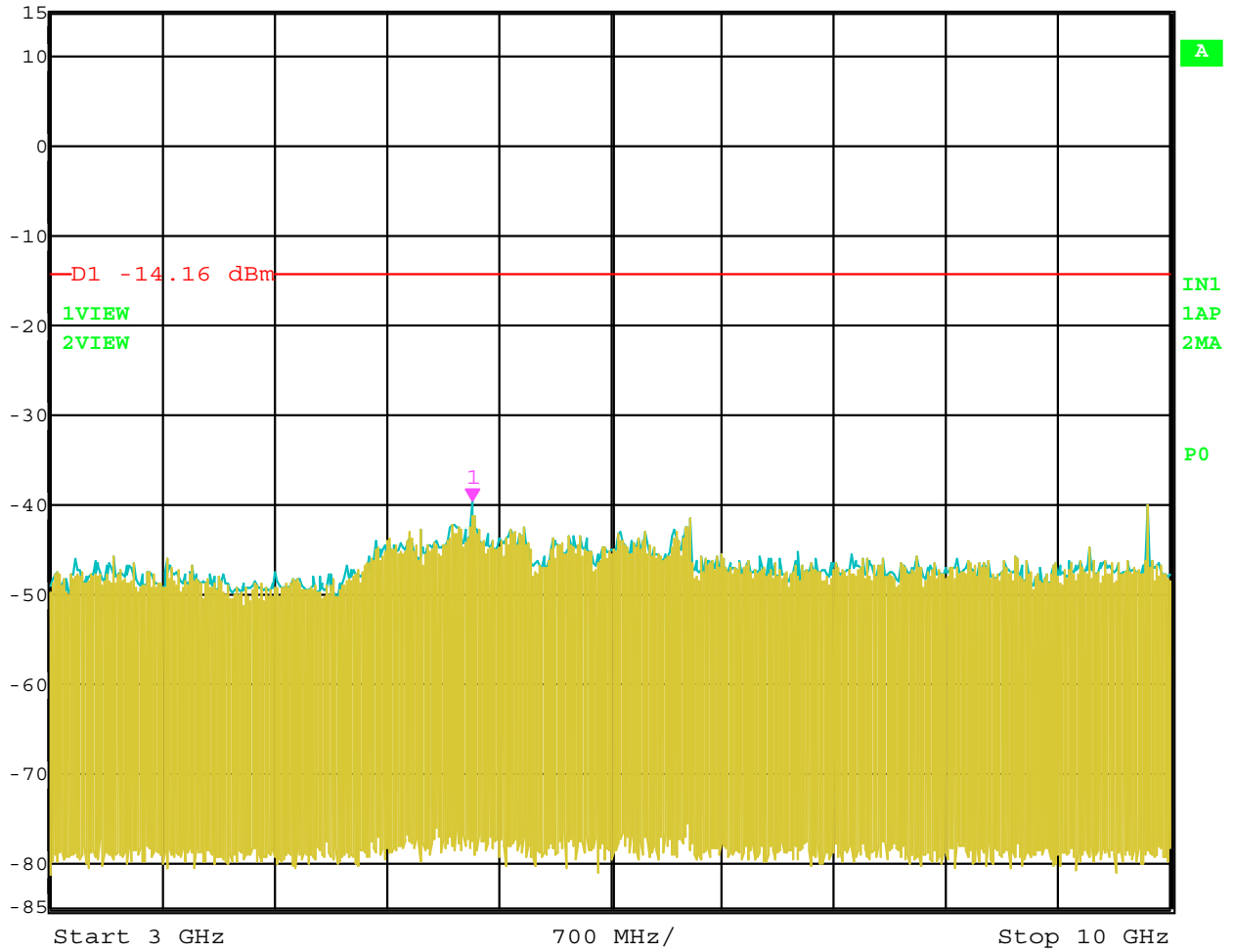


Date: 22.MAR.2005 21:34:27

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



Ref Lvl 15 dBm Marker 1 [T2] -39.71 dBm RBW 100 kHz RF Att 40 dB
5.63727455 GHz VBW 300 kHz Unit dBm
SWT 1.75 s

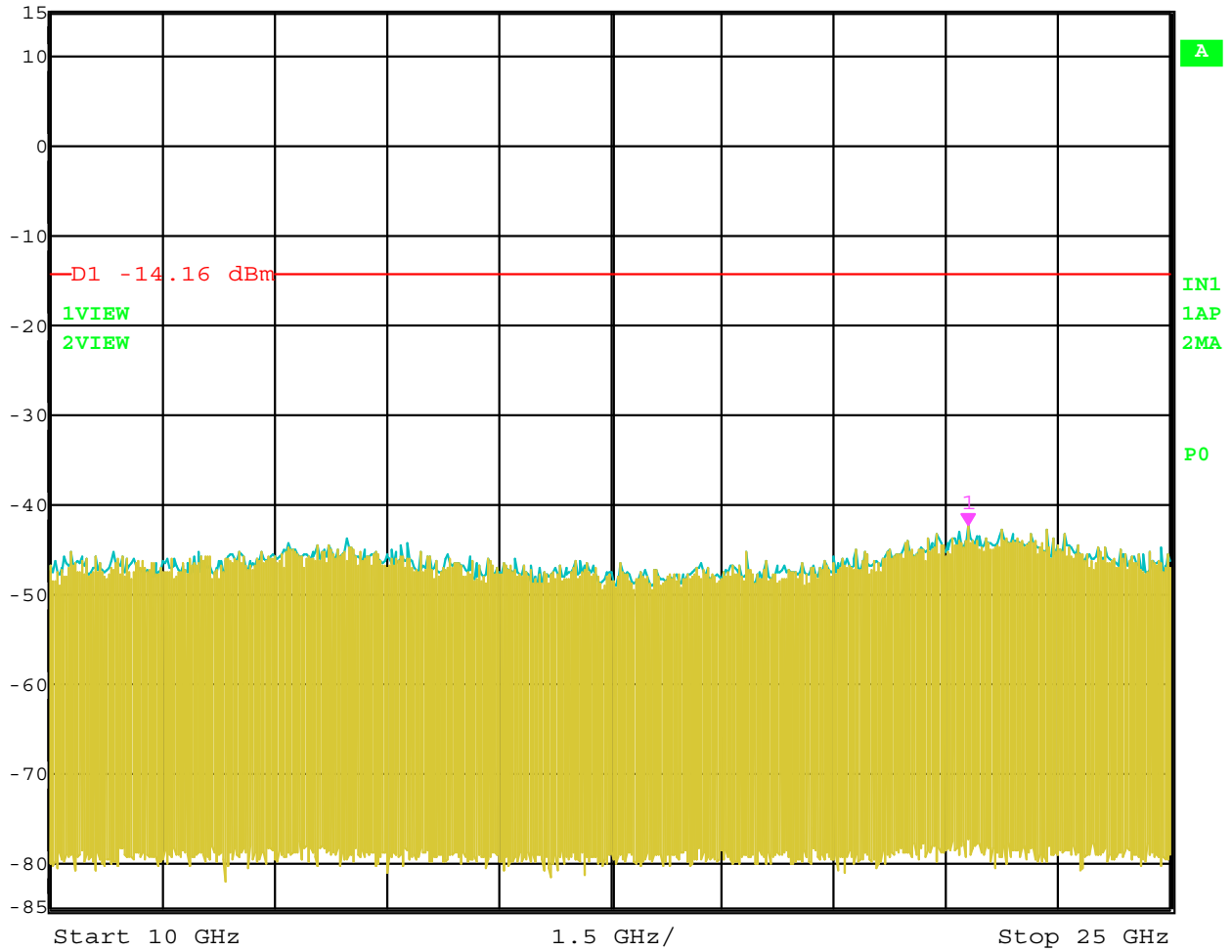


Date: 22.MAR.2005 21:35:49

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



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-42.48 dBm	VBW	300 kHz		
	22.29458918 GHz	SWT	3.8 s	Unit	dBm

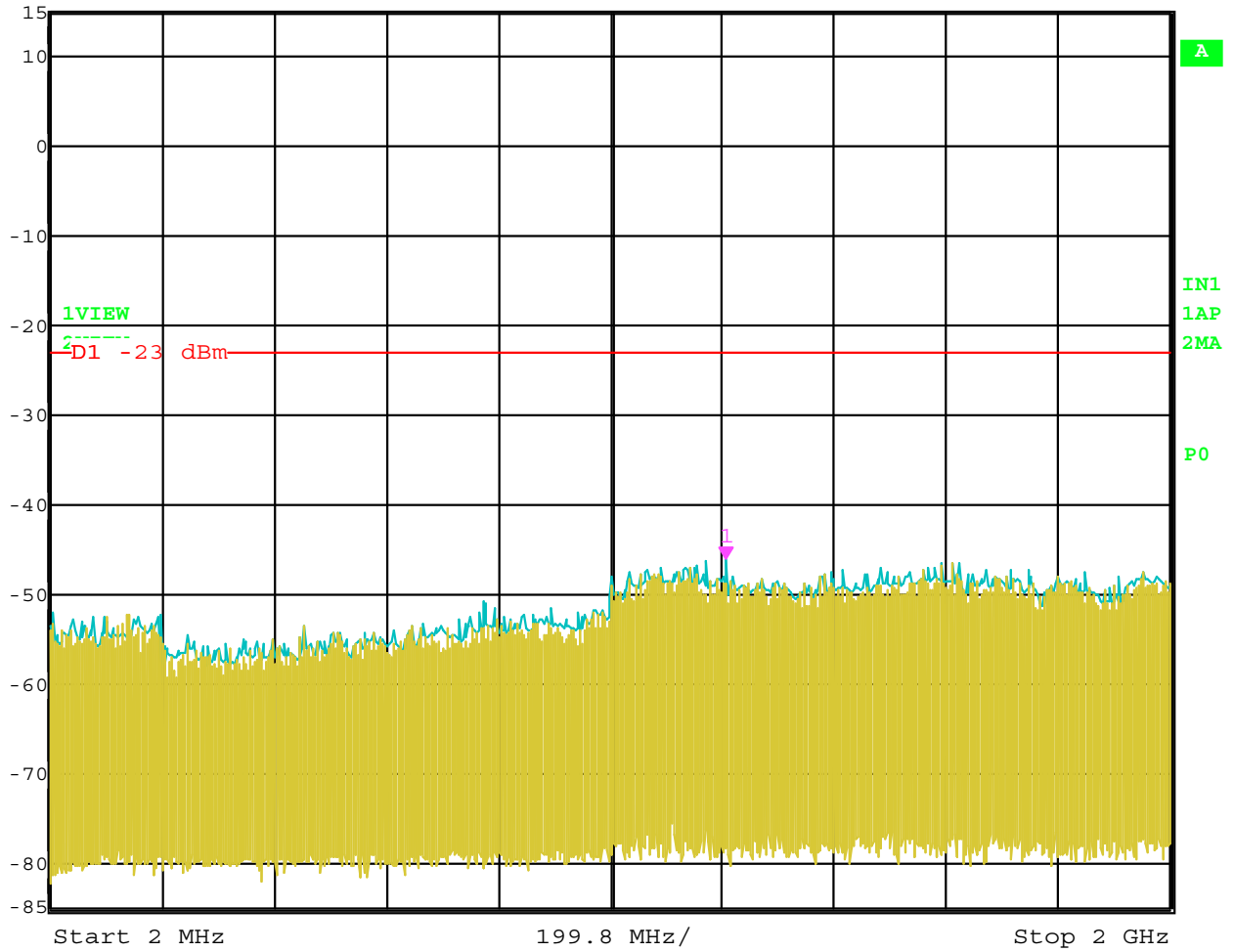


Date: 22.MAR.2005 21:36:29

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



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-46.24 dBm	VBW	300 kHz		
	1.20720641 GHz	SWT	1.15 s	Unit	dBm

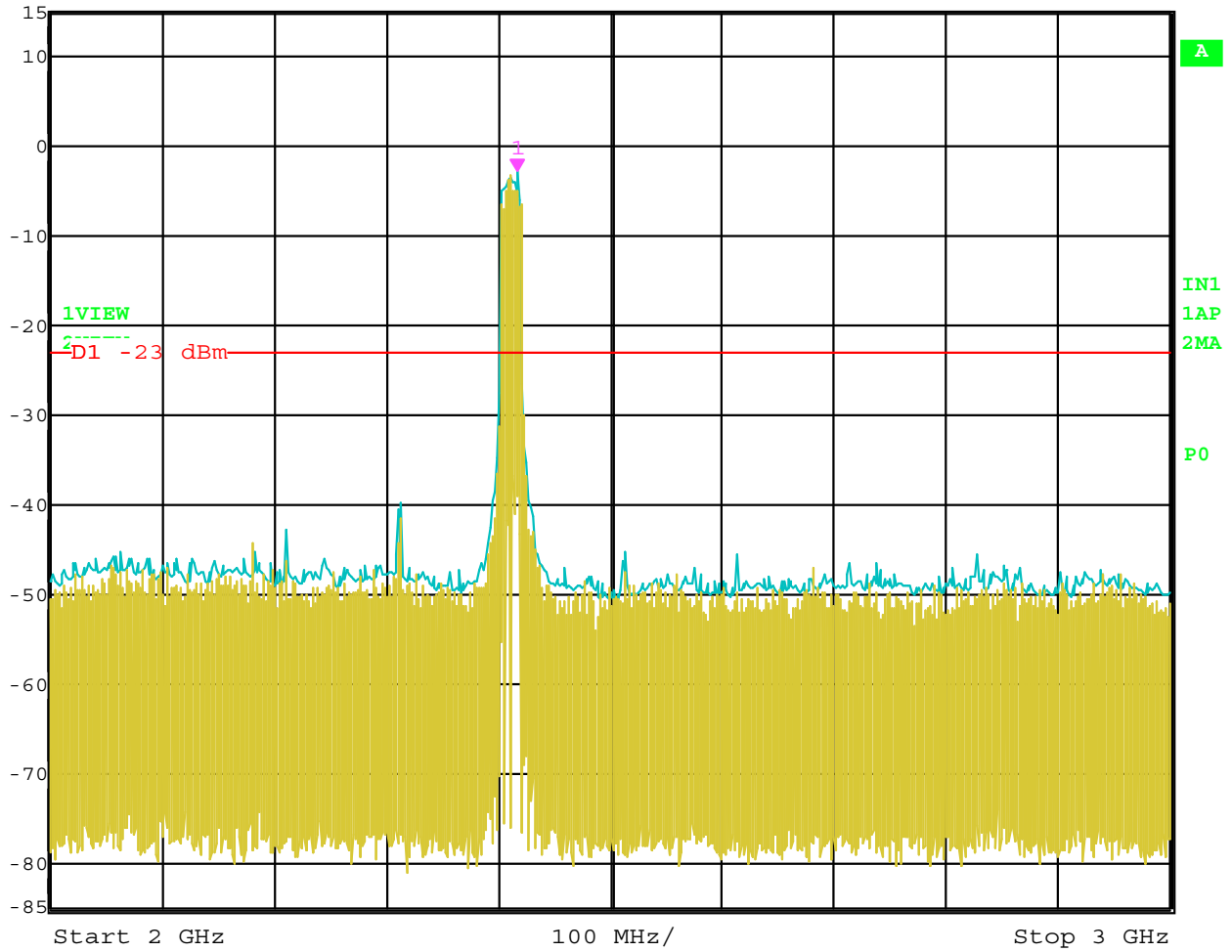


Date: 22.MAR.2005 21:52:15

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



Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-3.00 dBm VBW 300 kHz
2.41683367 GHz SWT 250 ms Unit dBm

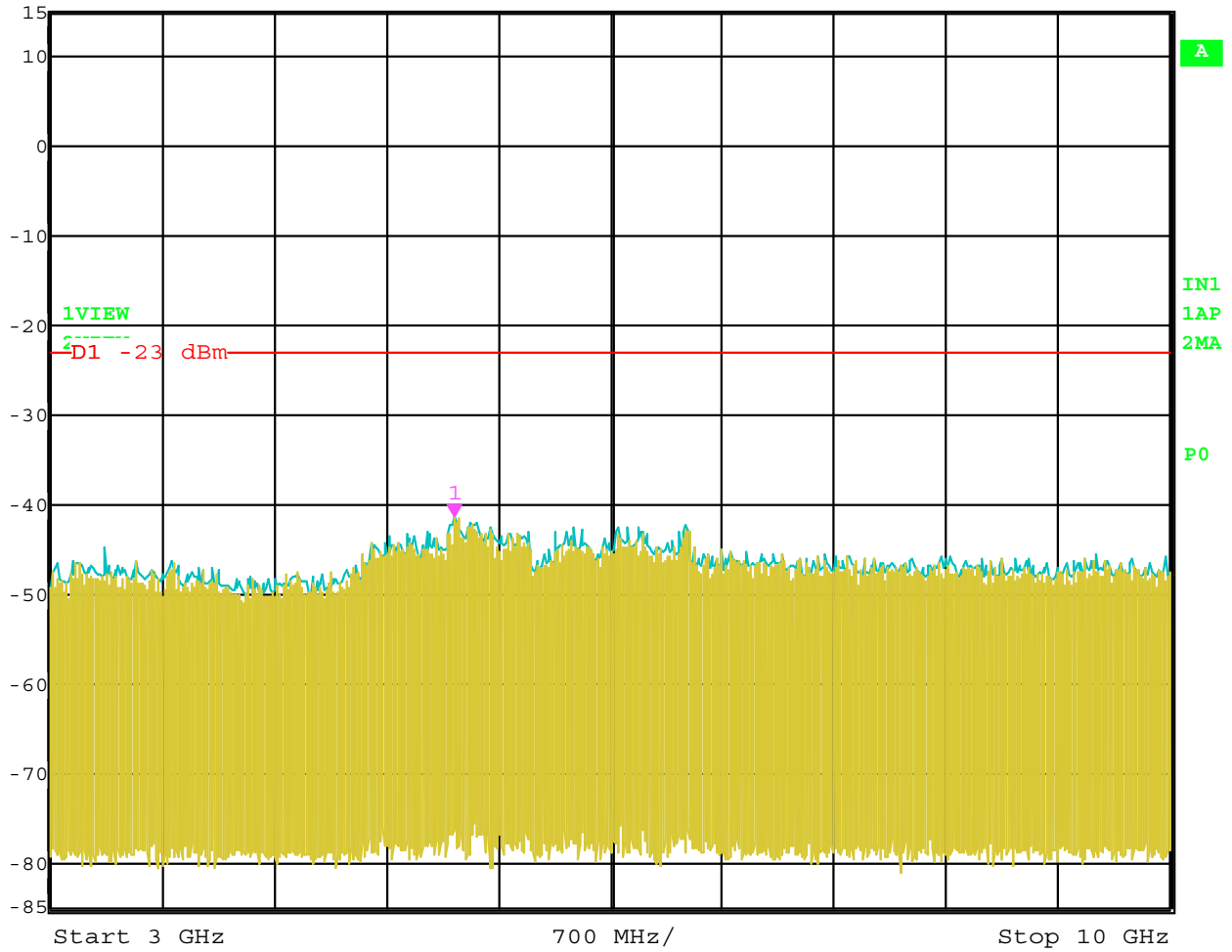


Date: 22.MAR.2005 21:51:35

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



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-41.27 dBm	VBW	300 kHz		
	5.52505010 GHz	SWT	1.75 s	Unit	dBm

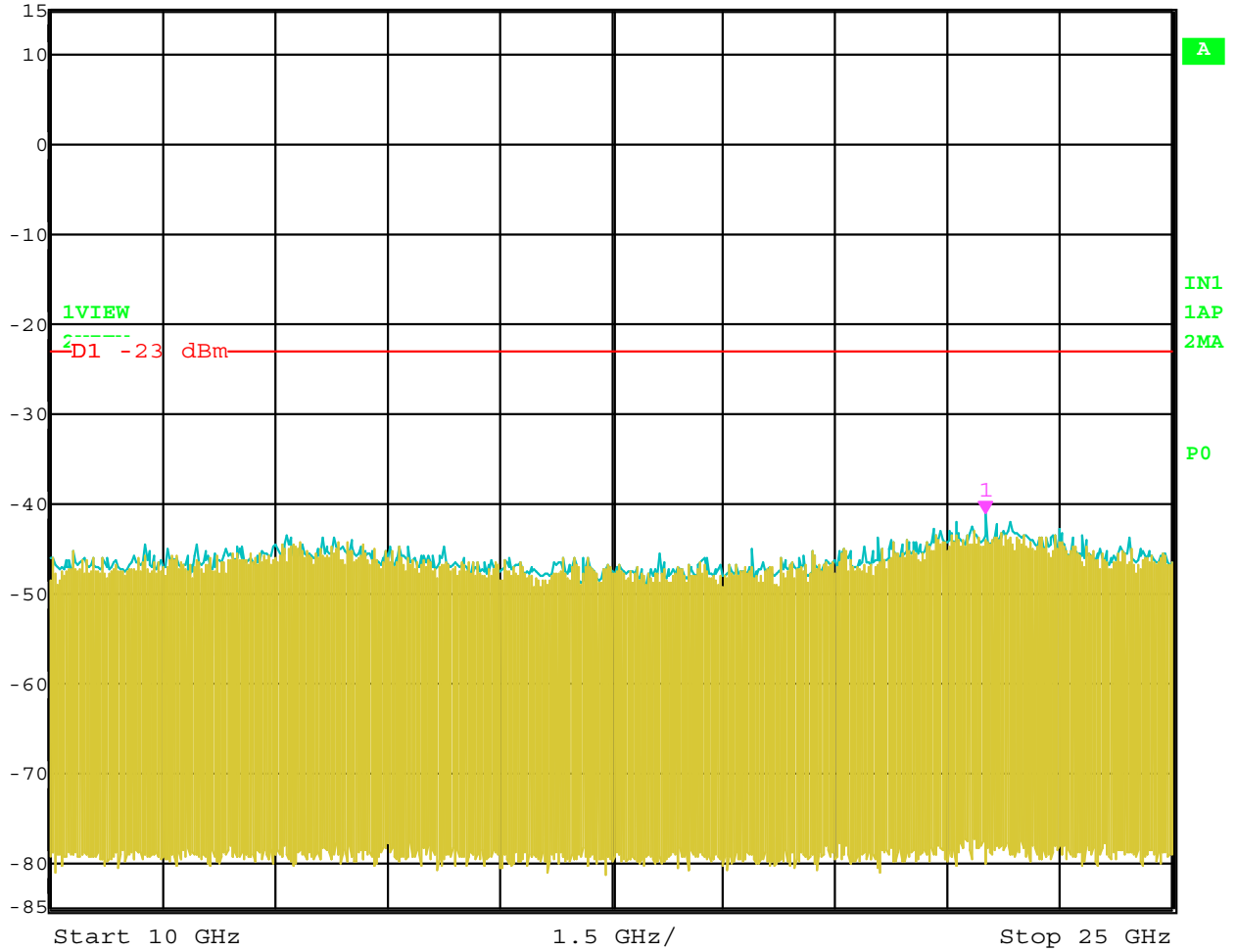


Date: 22.MAR.2005 21:52:57

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -41.22 dBm VBW 300 kHz
15 dBm 22.50501002 GHz SWT 3.8 s Unit dBm

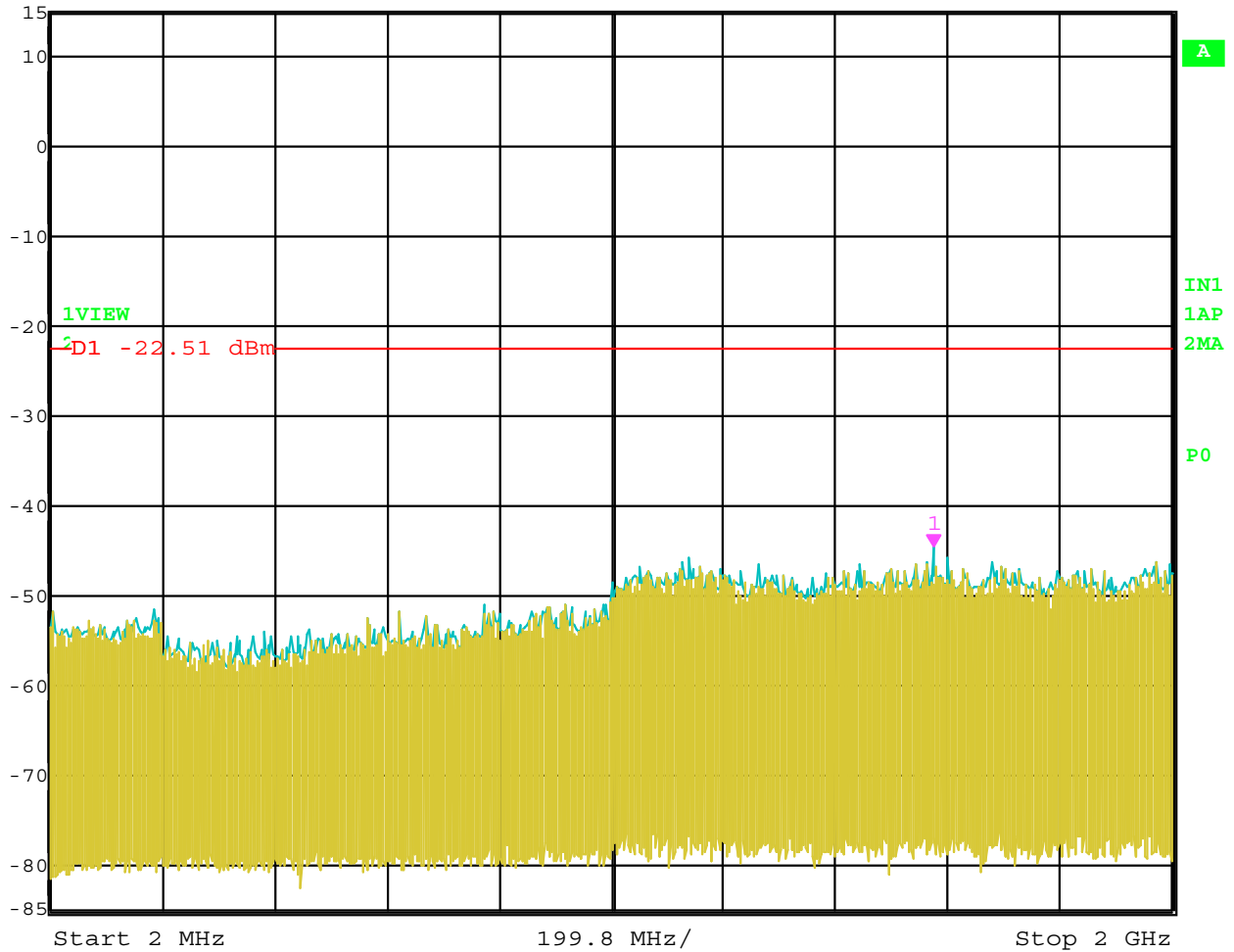


Date: 22.MAR.2005 21:53:43

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



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-44.51 dBm	VBW	300 kHz		
	1.57557515 GHz	SWT	1.15 s	Unit	dBm

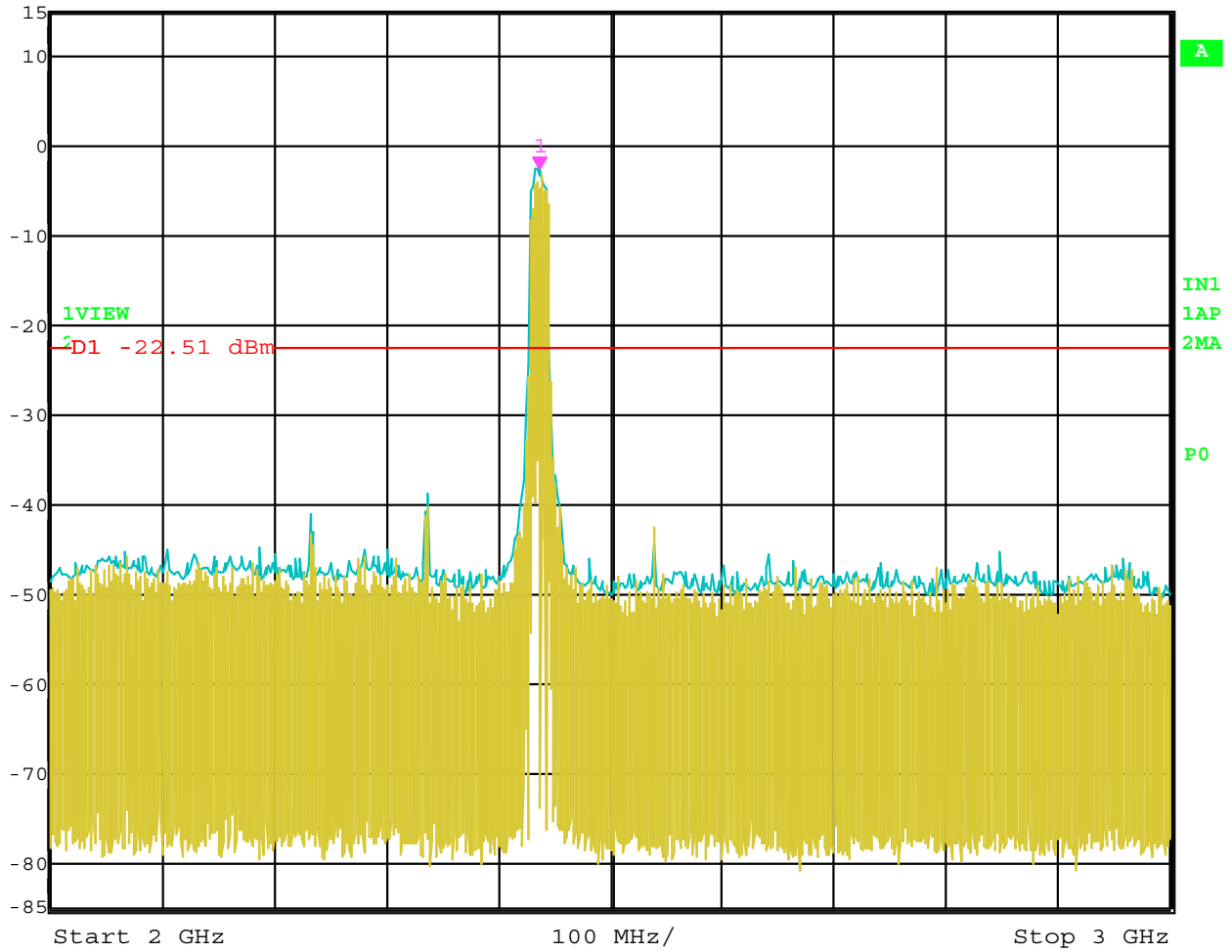


Date: 22.MAR.2005 21:47:37

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



Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-2.51 dBm VBW 300 kHz
2.43687375 GHz SWT 250 ms Unit dBm

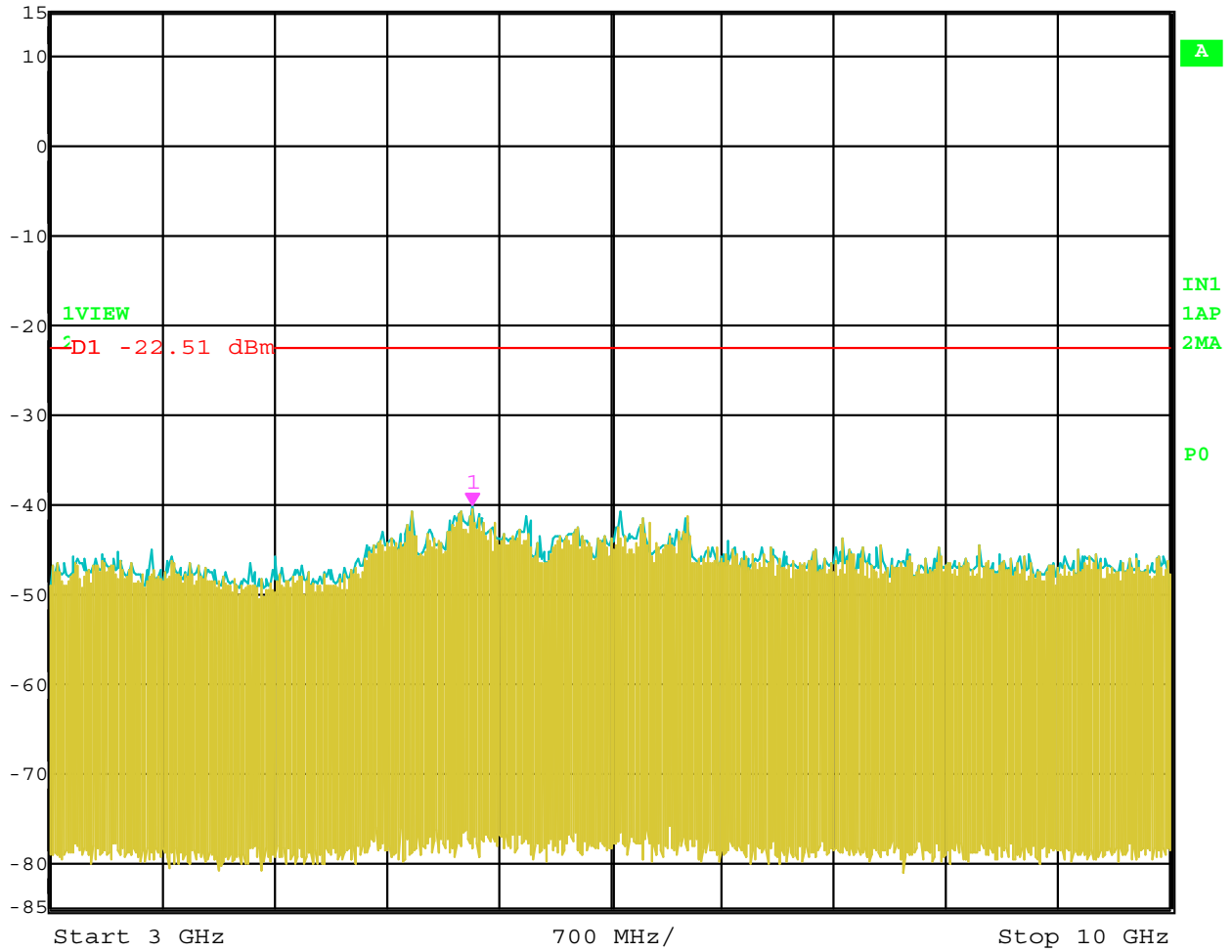


Date: 22.MAR.2005 21:46:55

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



Ref Lvl 15 dBm Marker 1 [T2] -40.22 dBm RBW 100 kHz RF Att 40 dB
5.63727455 GHz VBW 300 kHz Unit dBm
SWT 1.75 s

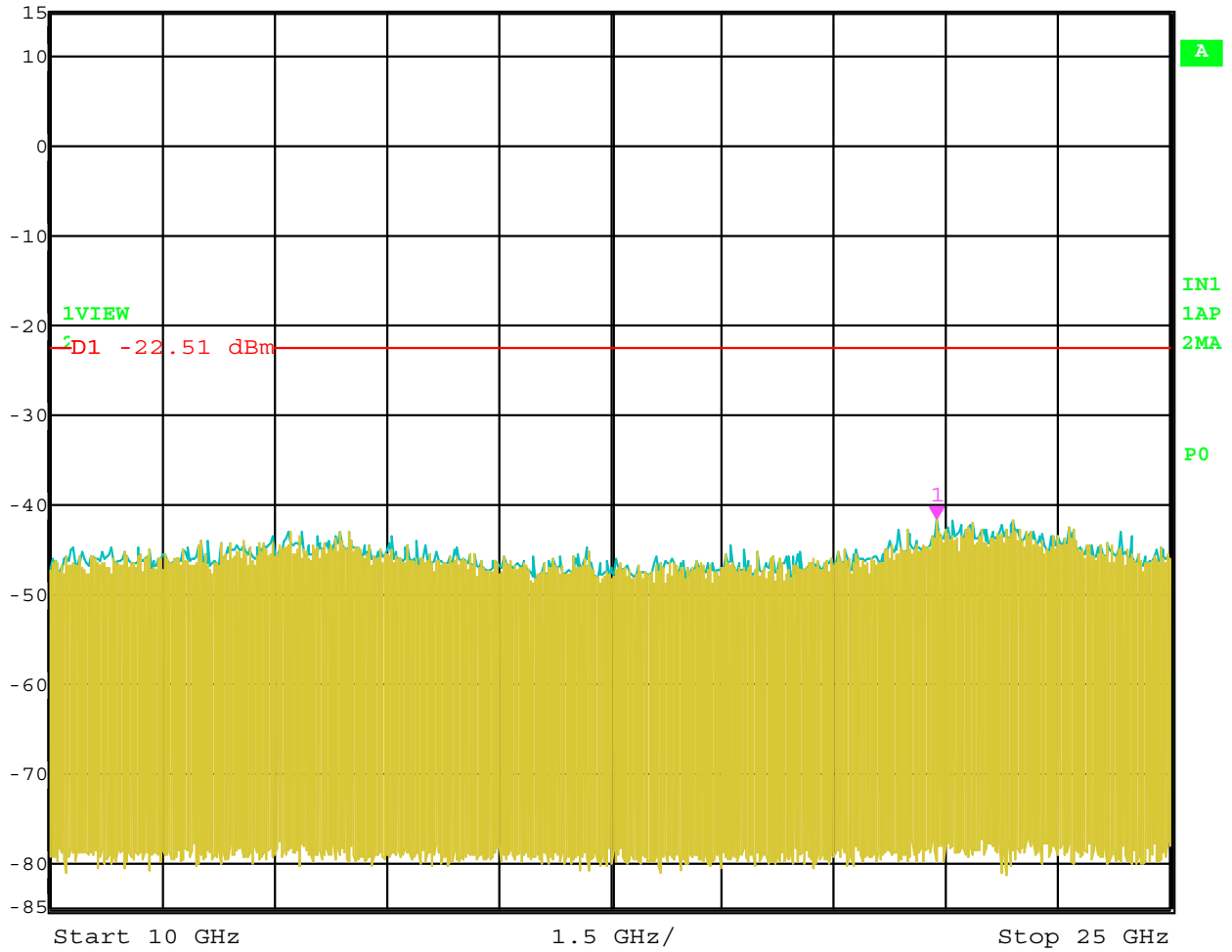


Date: 22.MAR.2005 21:48:17

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



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-41.61 dBm	VBW	300 kHz		
	21.87374749 GHz	SWT	3.8 s	Unit	dBm

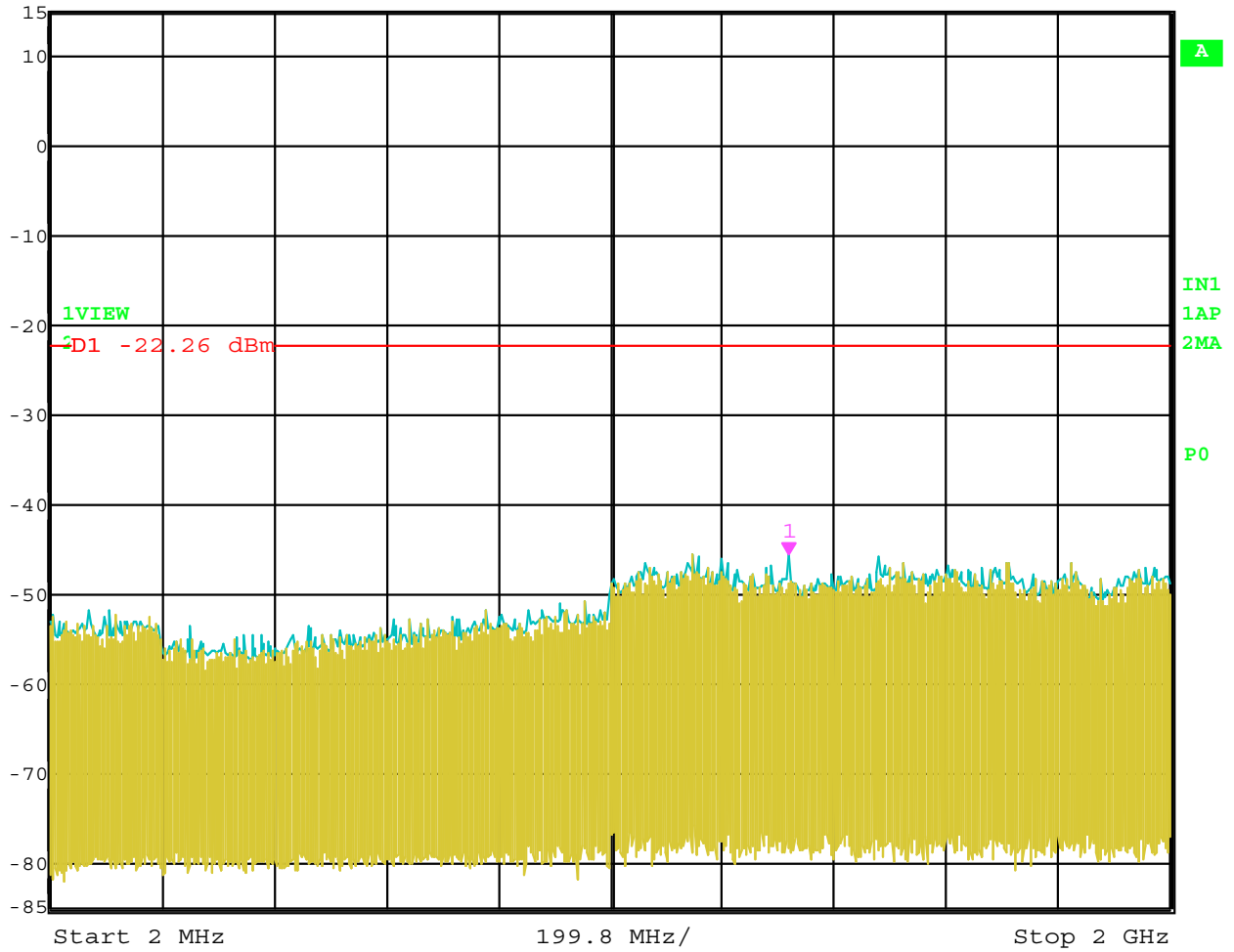


Date: 22.MAR.2005 21:50:25

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



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-45.65 dBm	VBW	300 kHz		
	1.31931864 GHz	SWT	1.15 s	Unit	dBm

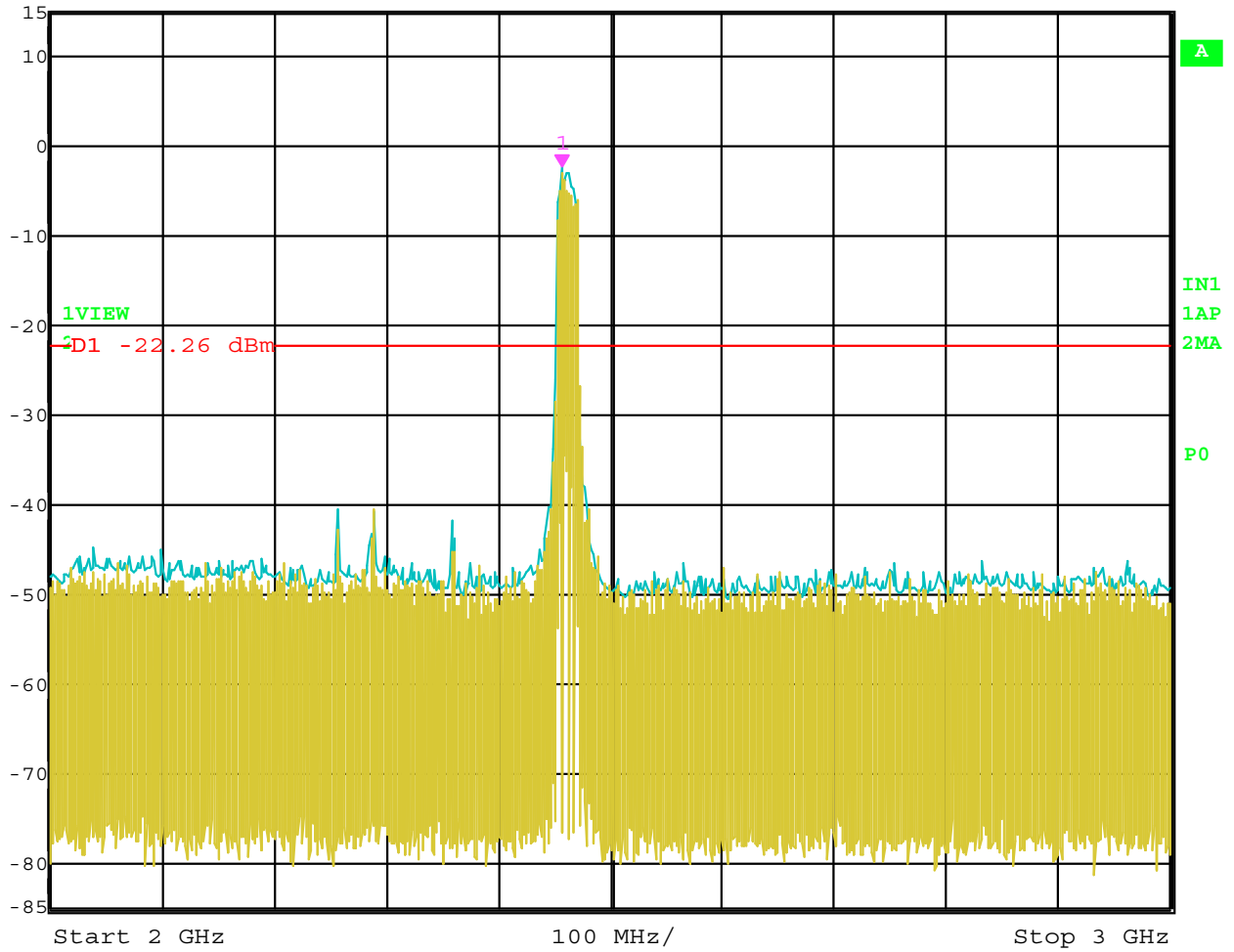


Date: 22.MAR.2005 21:44:22

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



Ref Lvl 15 dBm
Marker 1 [T2] -2.26 dBm
2.45691383 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 250 ms Unit dBm

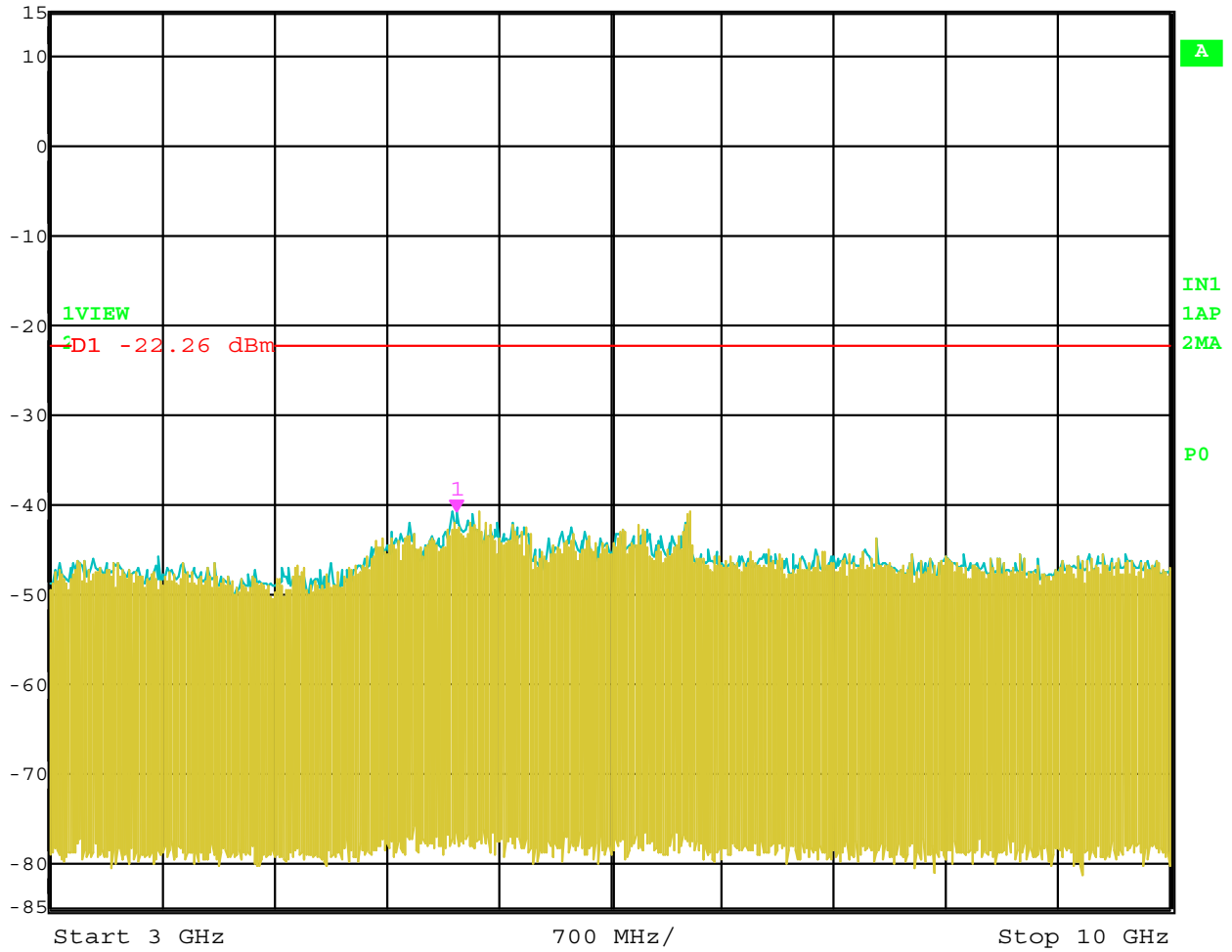


Date: 22.MAR.2005 21:43:19

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



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-40.97 dBm	VBW	300 kHz		
	5.53907816 GHz	SWT	1.75 s	Unit	dBm

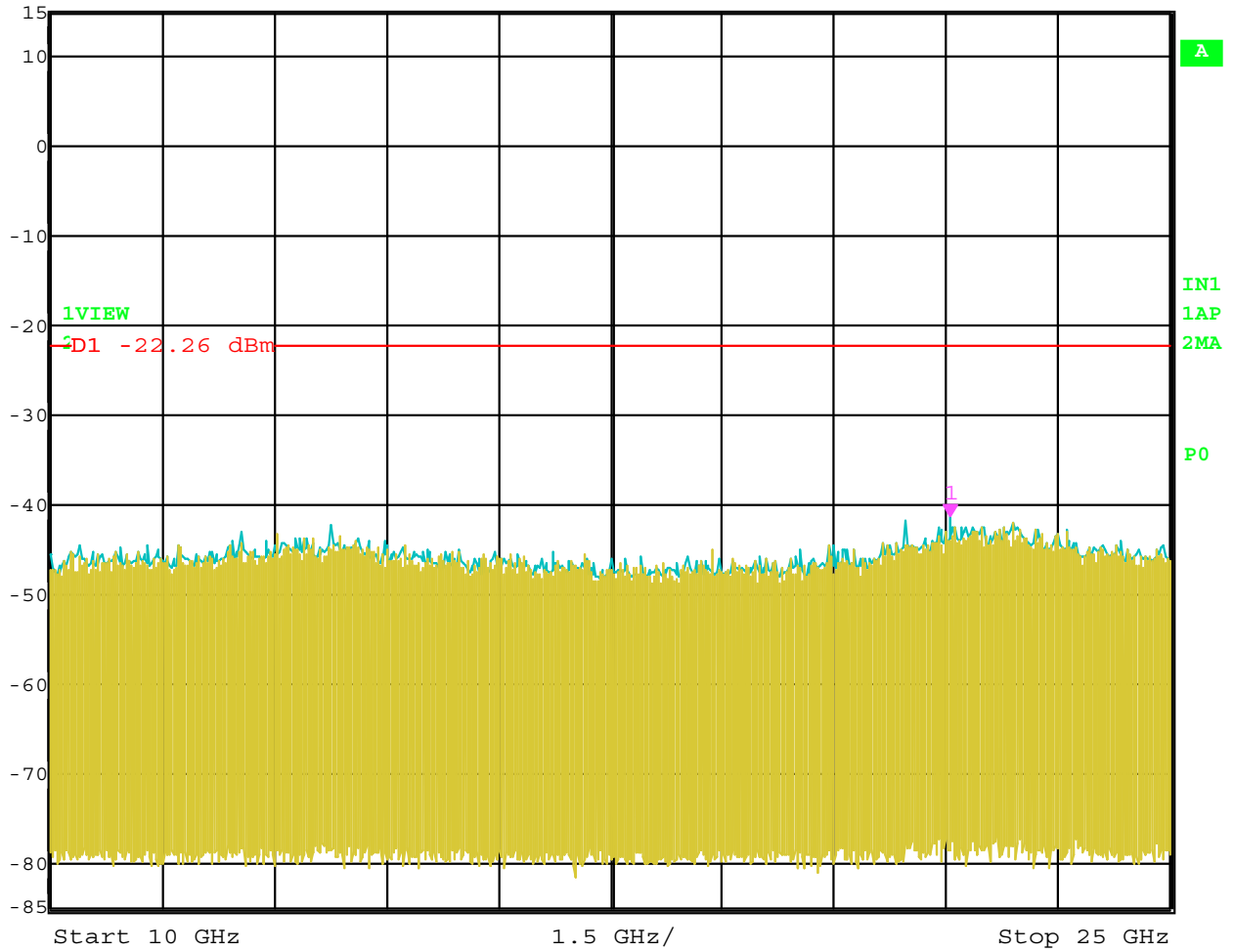


Date: 22.MAR.2005 21:44:57

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

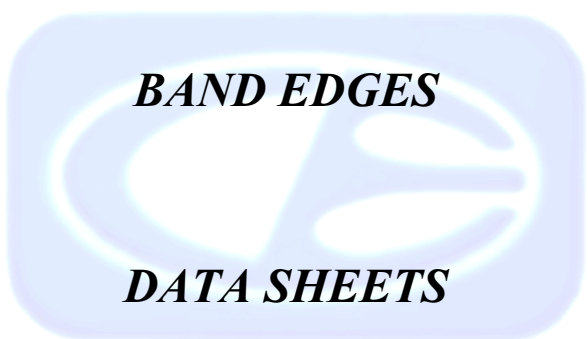


Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-41.44 dBm VBW 300 kHz
22.05410822 GHz SWT 3.8 s Unit dBm



Date: 22.MAR.2005 21:45:41

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



BAND EDGES

DATA SHEETS

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/17/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 1 - 802.11 b Mode**

Gain : 30.5 Peak Power: 17.61 dBm Avg. Power: 15.01 dBm

Channel 6 - 802.11 b Mode

Gain : 30.5 Peak Power: 17.44 dBm Avg. Power: 14.98 dBm

Channel 11 - 802.11 b Mode

Gain : 30.5 Peak Power: 17.53 dBm Avg. Power: 15.12 dBm

Transmit Mode

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

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/17/05
 Lab: B
 Tested By: Kyle Fujimoto

With Phycomp Antenna

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

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

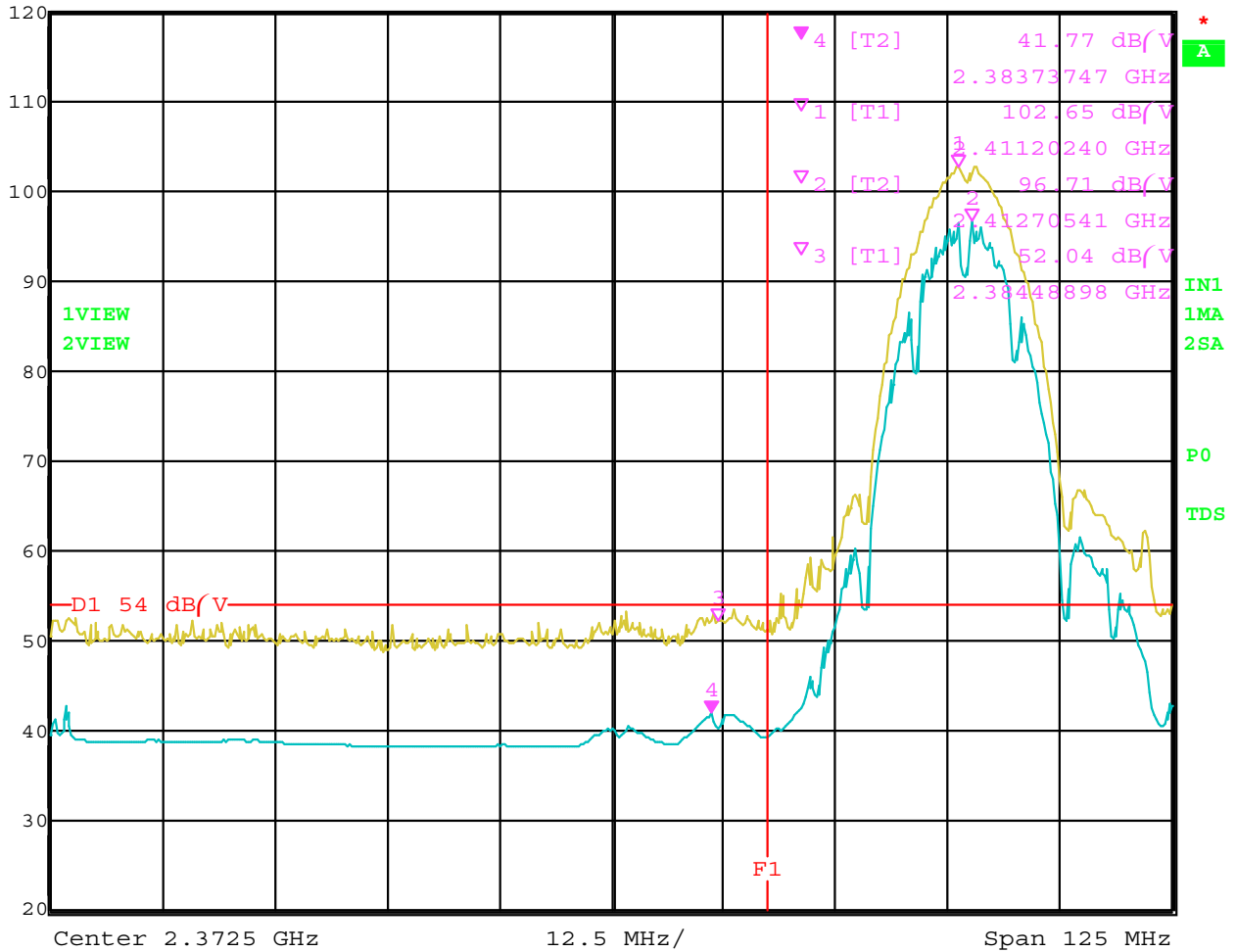
Channel 11 - 802.11 b Mode Gain : 30.5 Peak Power: 17.53 dBm Avg. Power: 15.12 dBm

Transmit Mode

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



Ref Lvl 120 dB/V
Marker 4 [T2] 41.77 dB/V
2.38373747 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 30 dB
Unit dB/V

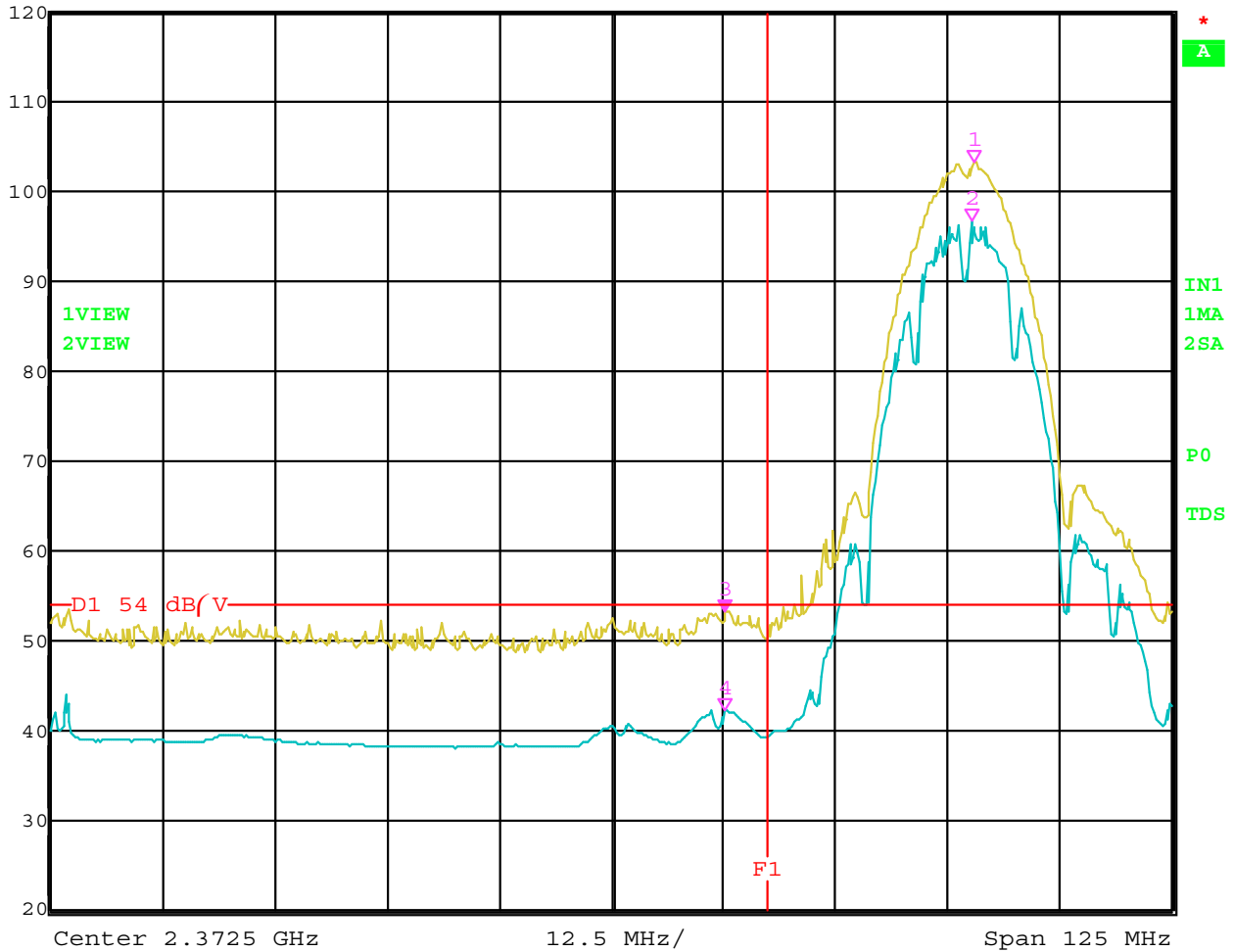


Date: 17.MAR.2005 09:56:50

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



Ref Lvl 120 dB/V
Marker 3 [T1] 53.01 dB/V
2.38524048 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 30 dB
Unit dB/V

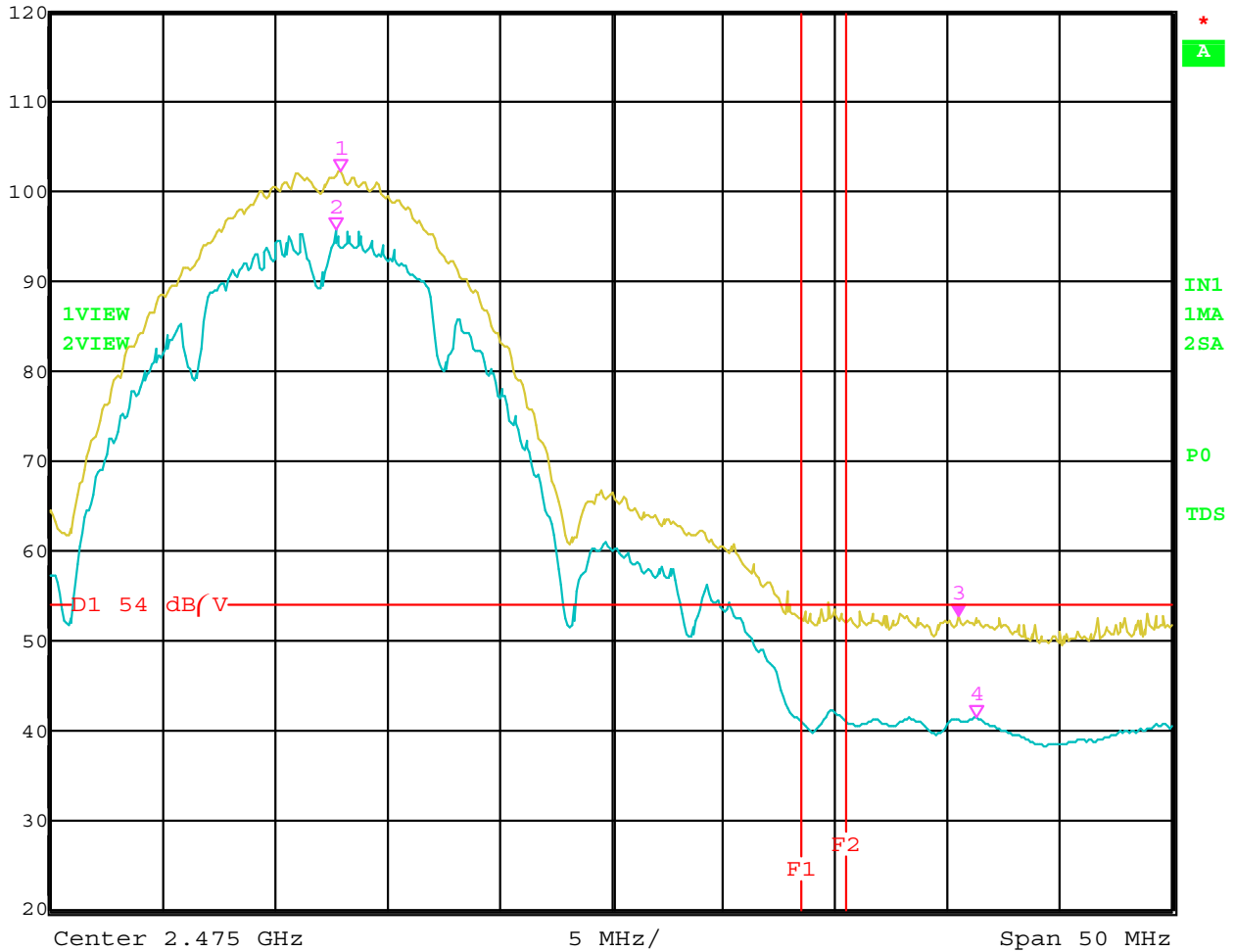


Date: 17.MAR.2005 10:27:33

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



Ref Lvl 120 dB/V
Marker 3 [T1] 52.65 dB/V
2.49051403 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 30 dB
Unit dB/V

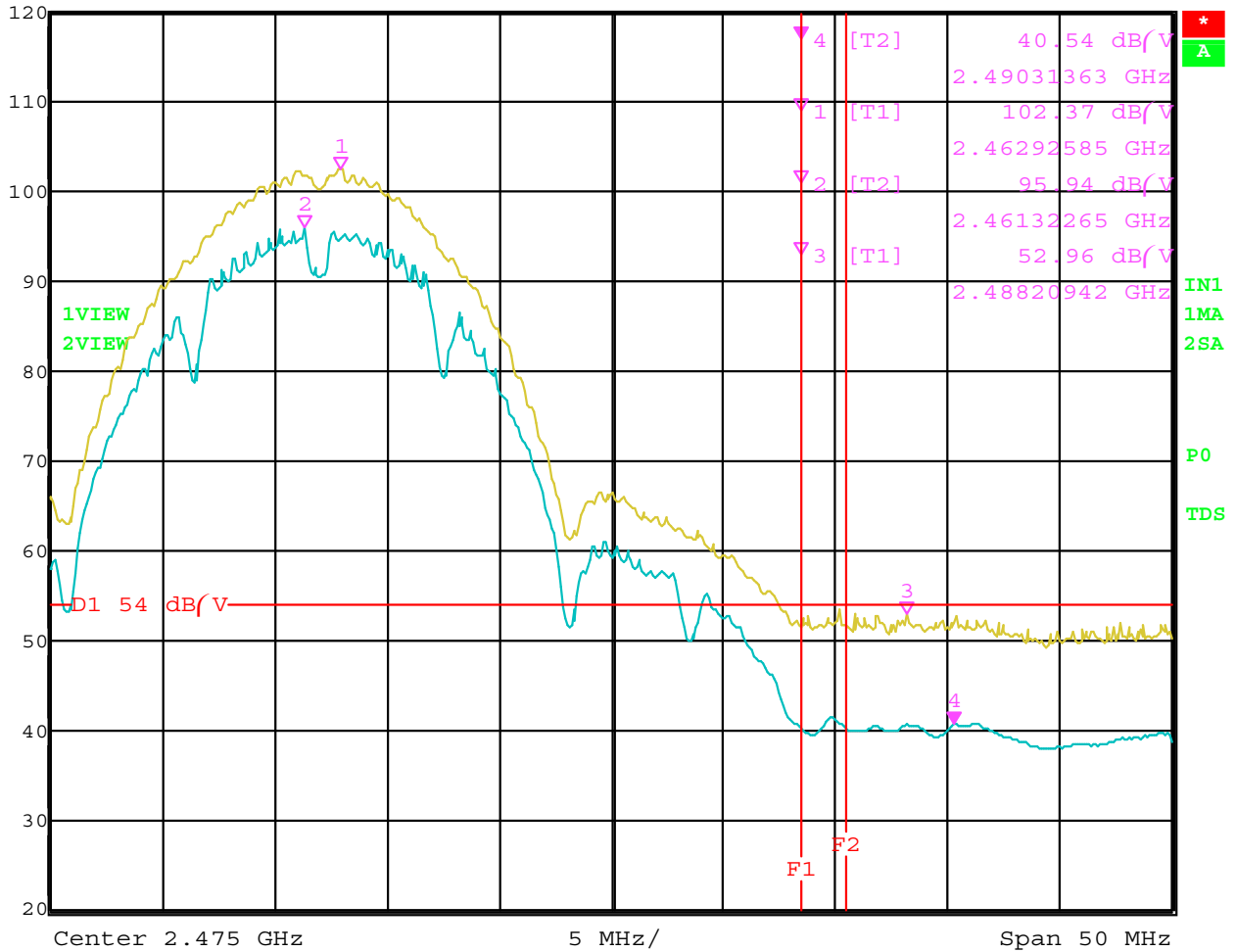


Date: 17.MAR.2005 10:05:17

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



Ref Lvl 120 dB/V
Marker 4 [T2] 40.54 dB/V
2.49031363 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 30 dB
Unit dB/V



Date: 17.MAR.2005 10:35:12

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

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG
 Configuration: Dell Latitude Laptop D510 Agency Series Number: PP17L -- Main Port

Date: 3/17/05

Lab: B

Tested By: Kyle Fujimoto

With Phycomp Antenna**Channel 1 - 802.11 g Mode**

Gain : 24.5 Peak Power: 16.50 dBm Avg. Power: 9.93 dBm

Channel 6 - 802.11 g Mode

Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

Channel 11 - 802.11 g Mode

Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

Transmit Mode

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

FCC 15.247

Intel Corporation
 Intel Mini PCI Type 3B 802.11BG Wireless LAN Adapter
 Model: WM3B2200BG

Date: 3/17/05

Lab: B

Tested By: Kyle Fujimoto

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

With Phycomp Antenna

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

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

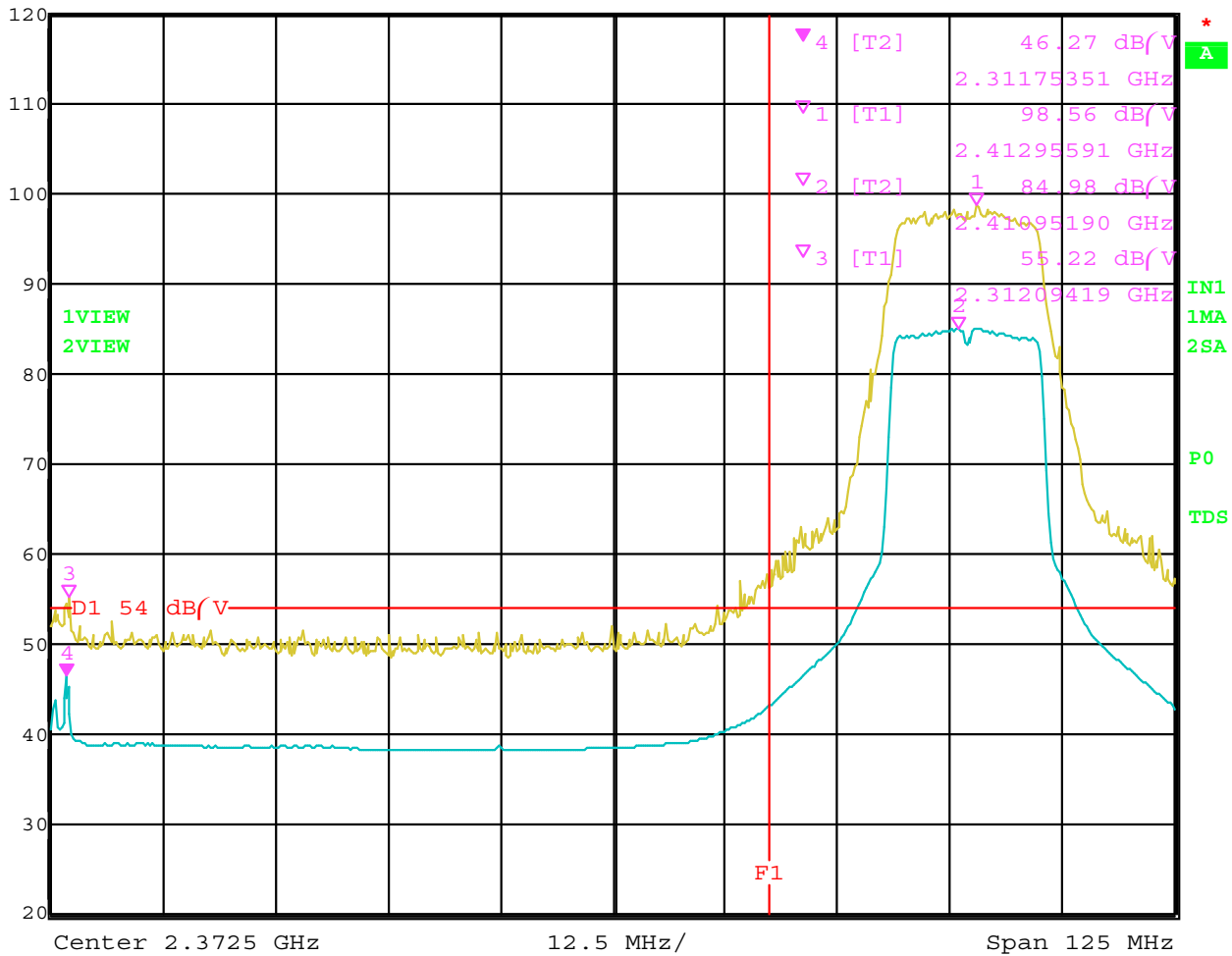
Channel 11 - 802.11 g Mode Gain : 24.5 Peak Power: 16.55 dBm Avg. Power: 9.94 dBm

Transmit Mode

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



Ref Lvl 120 dB/V
Marker 4 [T2] 46.27 dB/V
2.31175351 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 30 dB
Unit dB/V

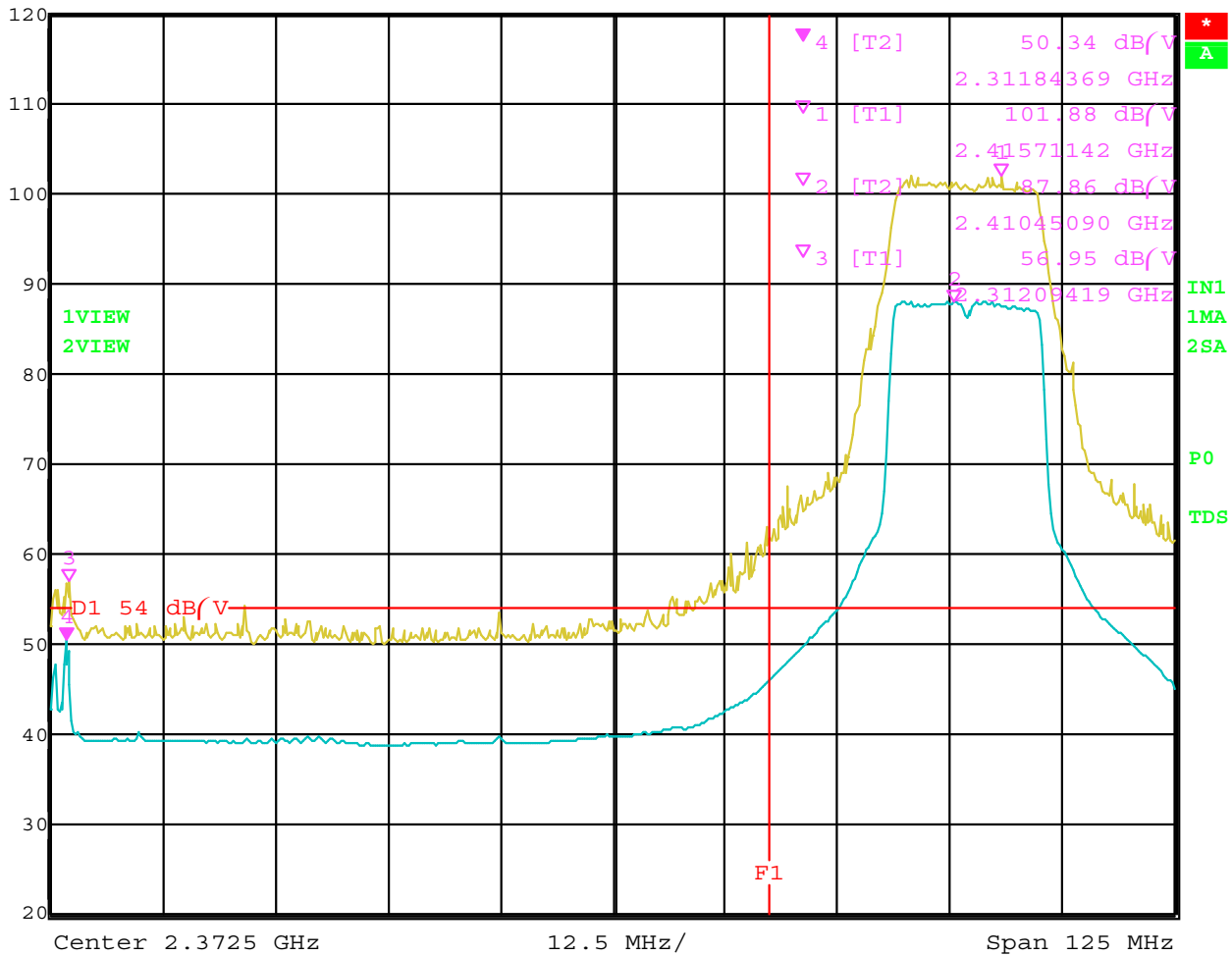


Date: 17.MAR.2005 13:15:51

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



Ref Lvl 120 dB/V
Marker 4 [T2] 50.34 dB/V
2.31184369 GHz
RBW 1 MHz
VBW 10 Hz
SWT 32 s
RF Att 30 dB
Unit dB/V

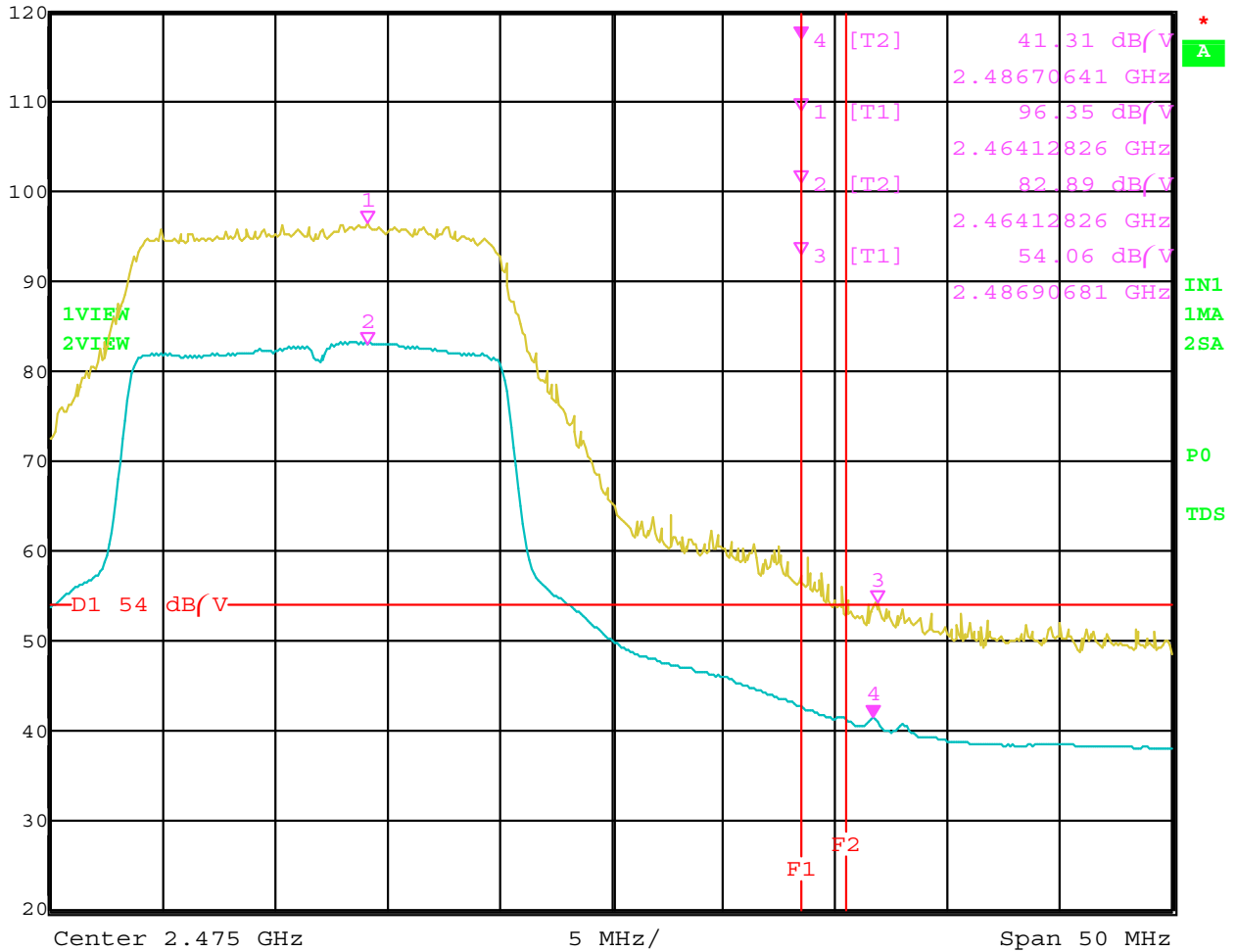


Date: 17.MAR.2005 12:28:31

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



Ref Lvl 120 dB/V
Marker 4 [T2] 41.31 dB/V
2.48670641 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 30 dB
Unit dB/V

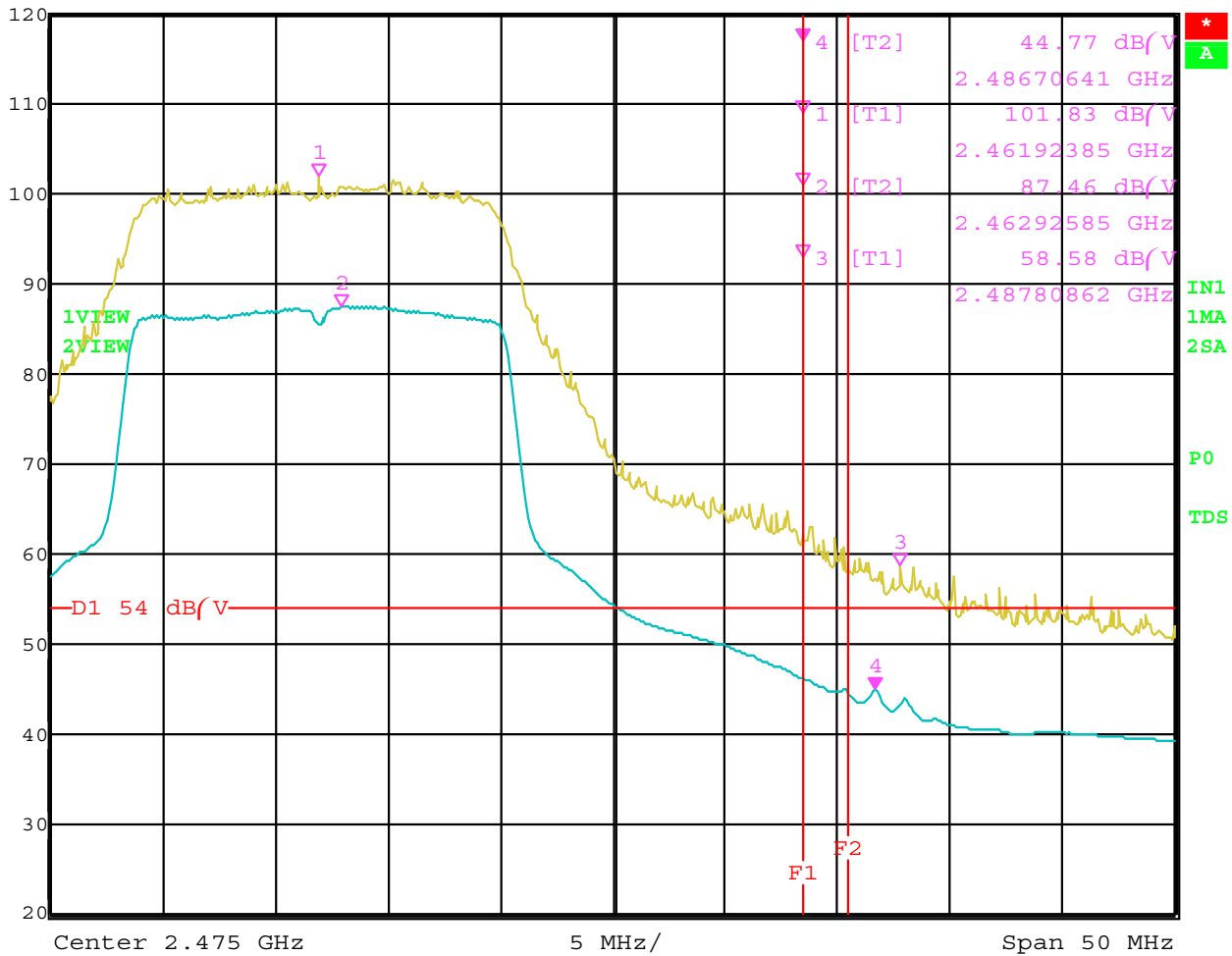


Date: 17.MAR.2005 12:43:26

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



Ref Lvl 120 dB/V
Marker 4 [T2] 44.77 dB/V
2.48670641 GHz
RBW 1 MHz
VBW 10 Hz
SWT 12.5 s
RF Att 30 dB
Unit dB/V



Date: 17.MAR.2005 12:37:01

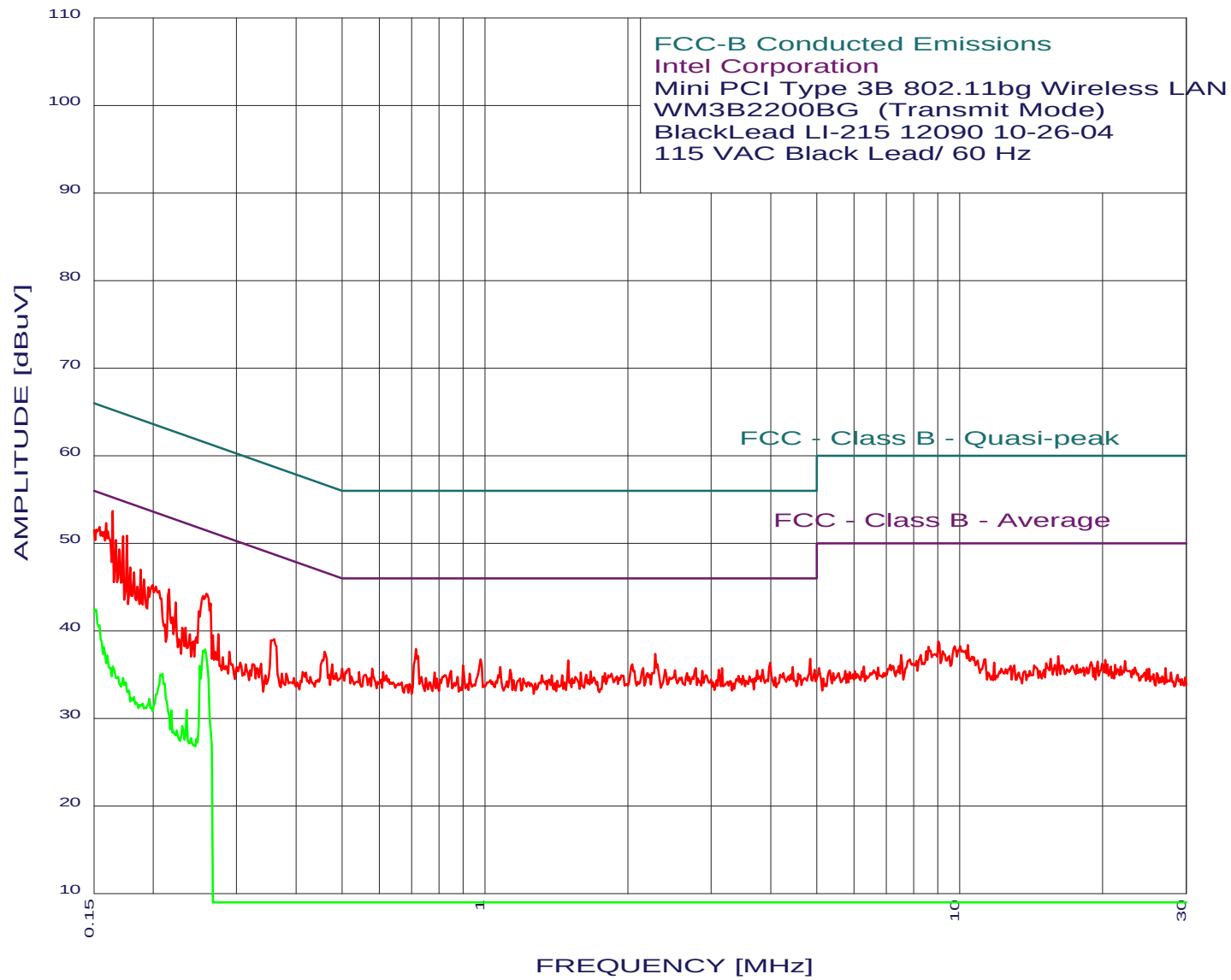
Band Edge – Channel 11 – Horizontal Polarization – 802.11 g Mode – Phycomp Antenna

CONDUCTED EMISSIONS

DATA SHEETS

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

3/23/2005 20:42:32





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

40 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

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

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



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

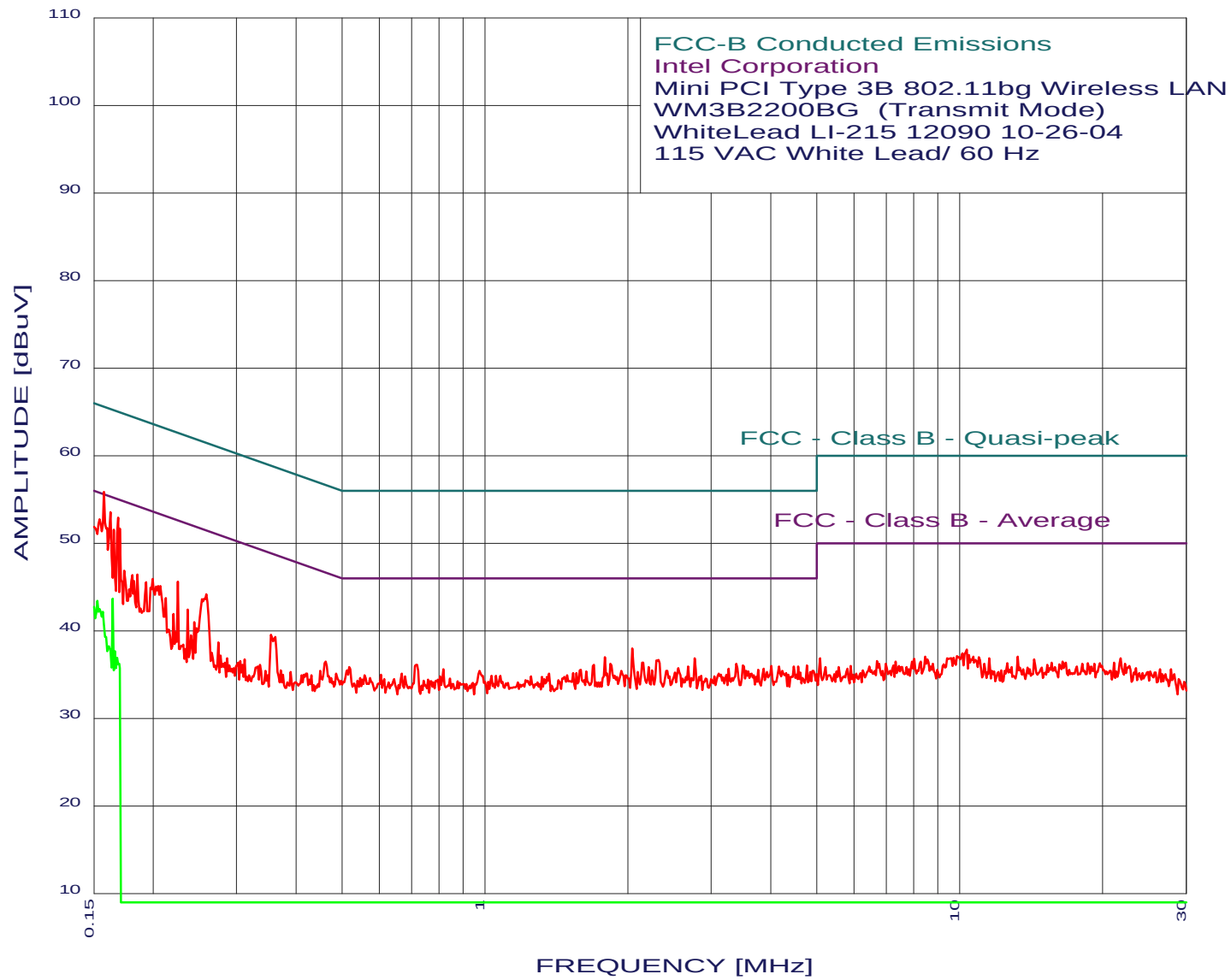
27 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Average

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

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

3/23/2005 21:02:01





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

40 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

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

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

**COMPATIBLE
ELECTRONICS**

3/23/2005 21:02:01

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

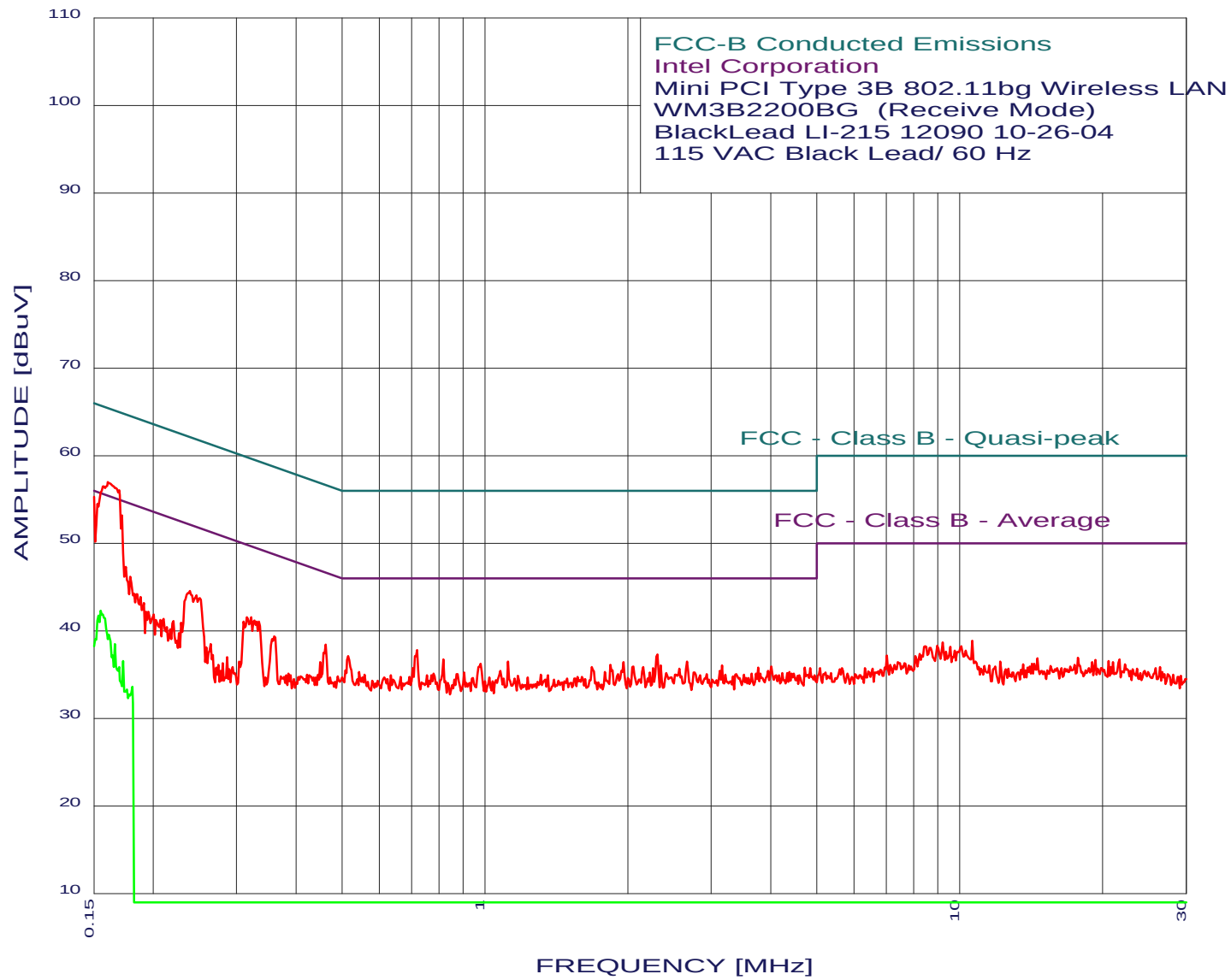
8 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Average

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

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

3/23/2005 20:46:50





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

40 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

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

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



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

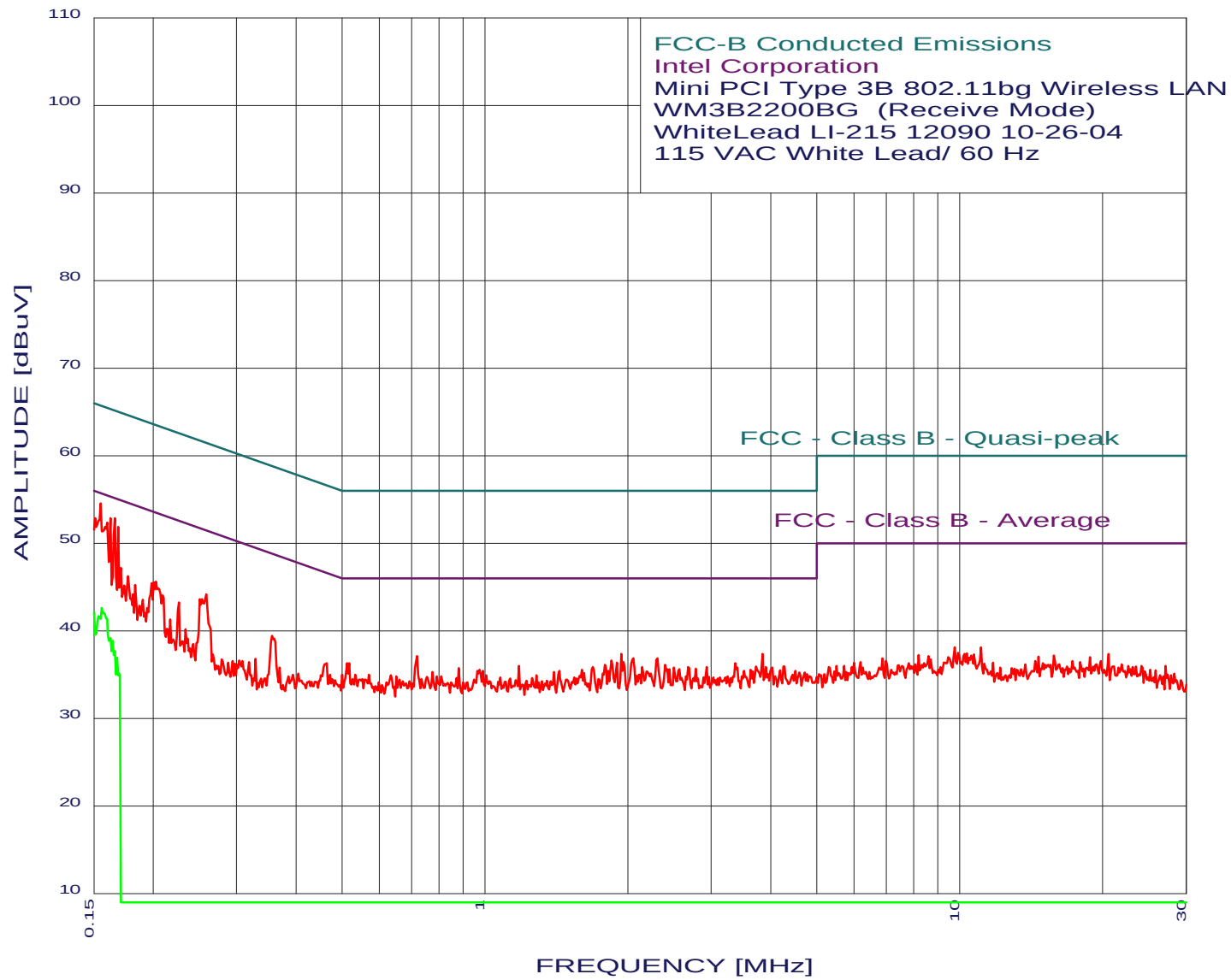
11 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Average

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

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

3/23/2005 21:24:37





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

40 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

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

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

**COMPATIBLE
ELECTRONICS**

3/23/2005 21:24:37

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

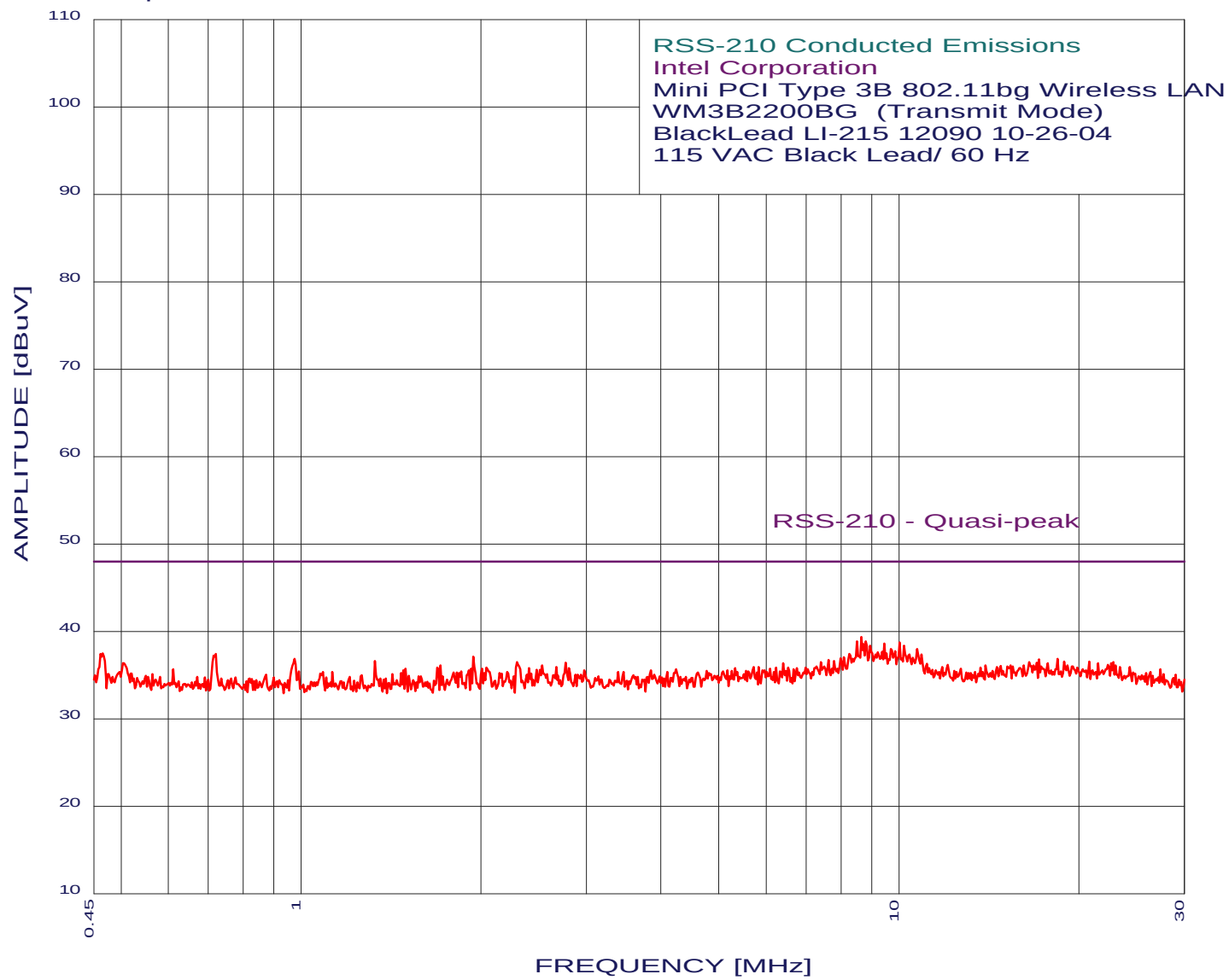
8 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Average

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

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

3/23/2005 20:50:26





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

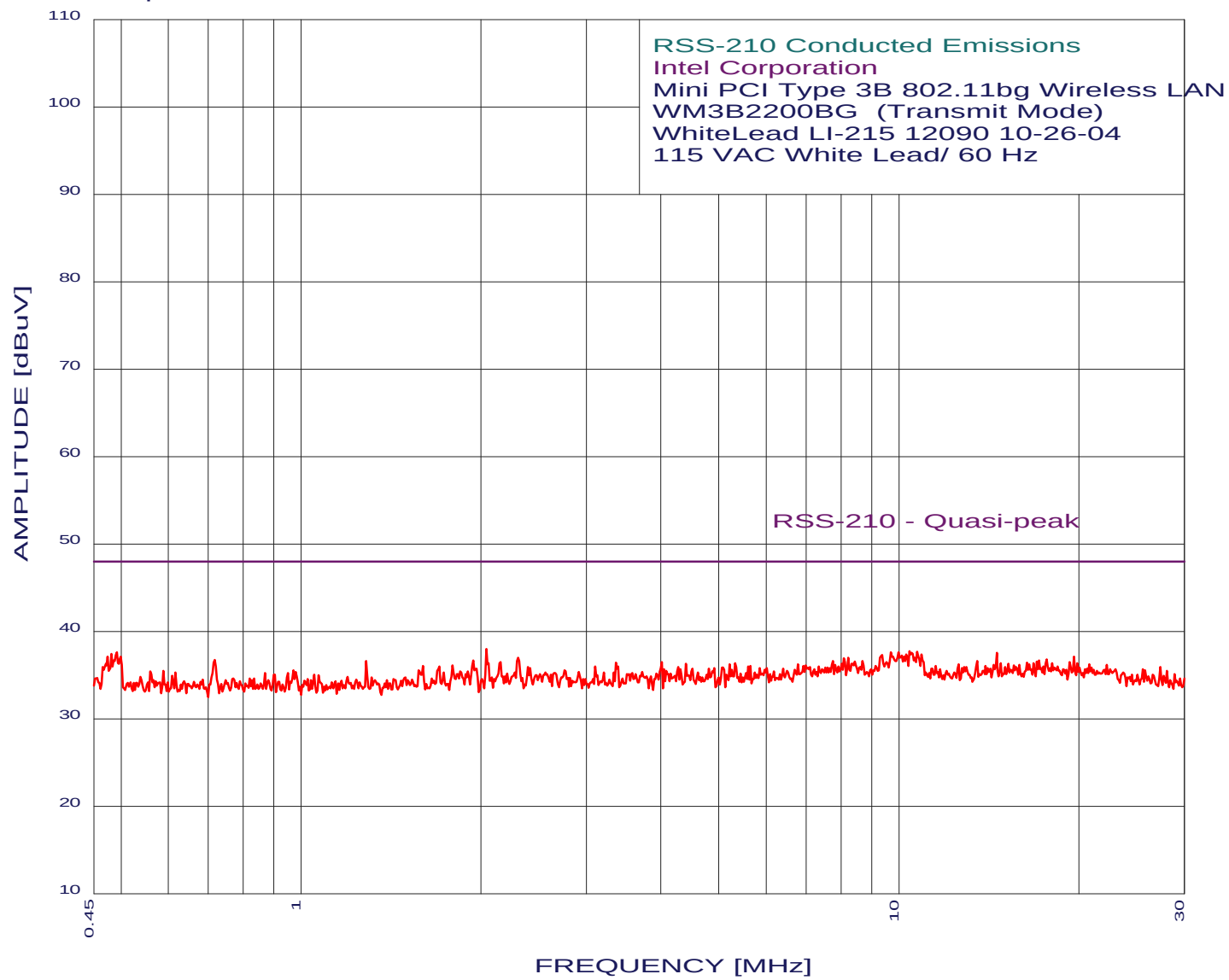
41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line

Peak criteria : 1.00 dB, Curve : Peak

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

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

3/23/2005 21:27:45





3/23/2005 21:27:45

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

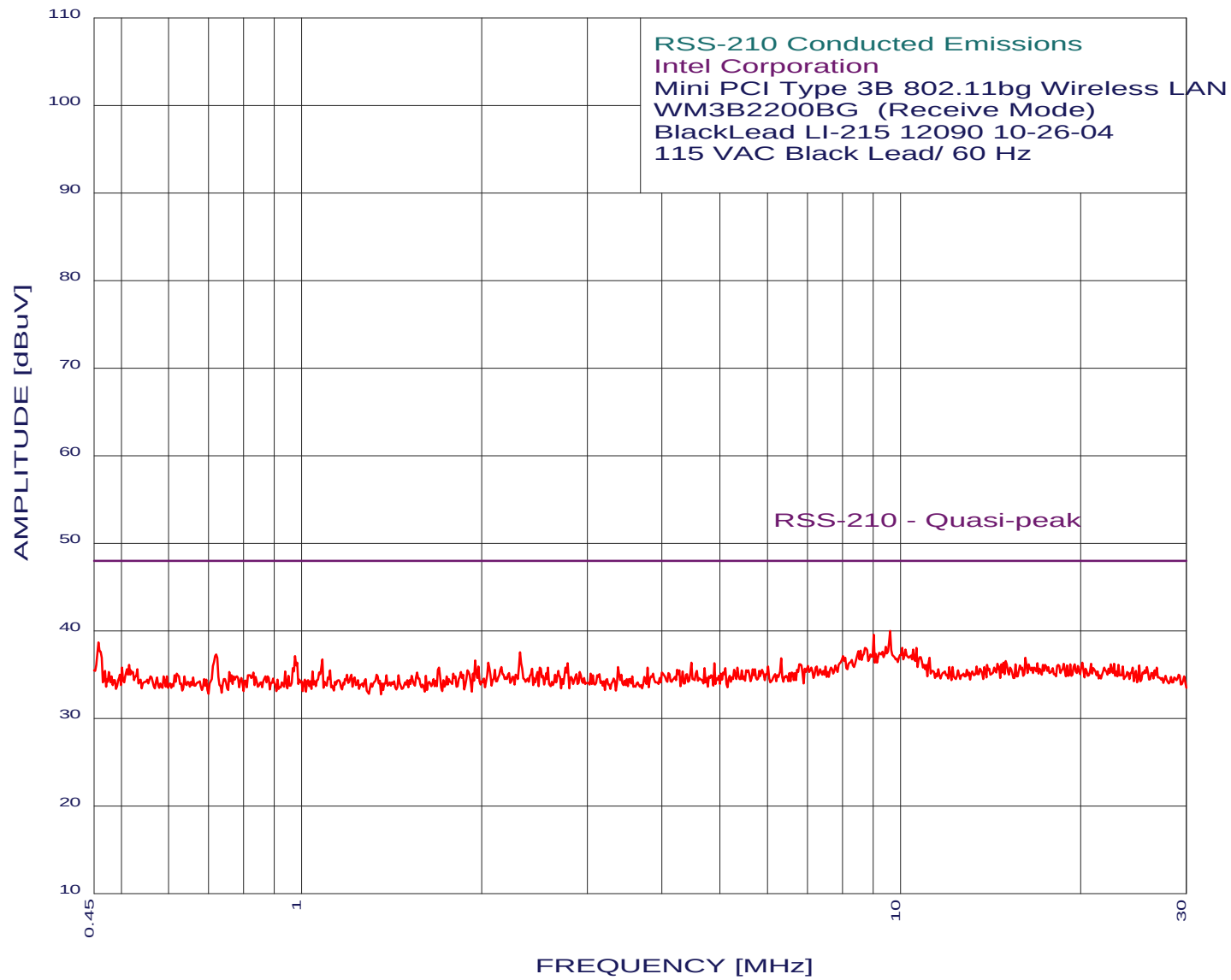
 41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line

Peak criteria : 1.00 dB, Curve : Peak

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

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

3/23/2005 20:48:13





3/23/2005 20:48:13

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

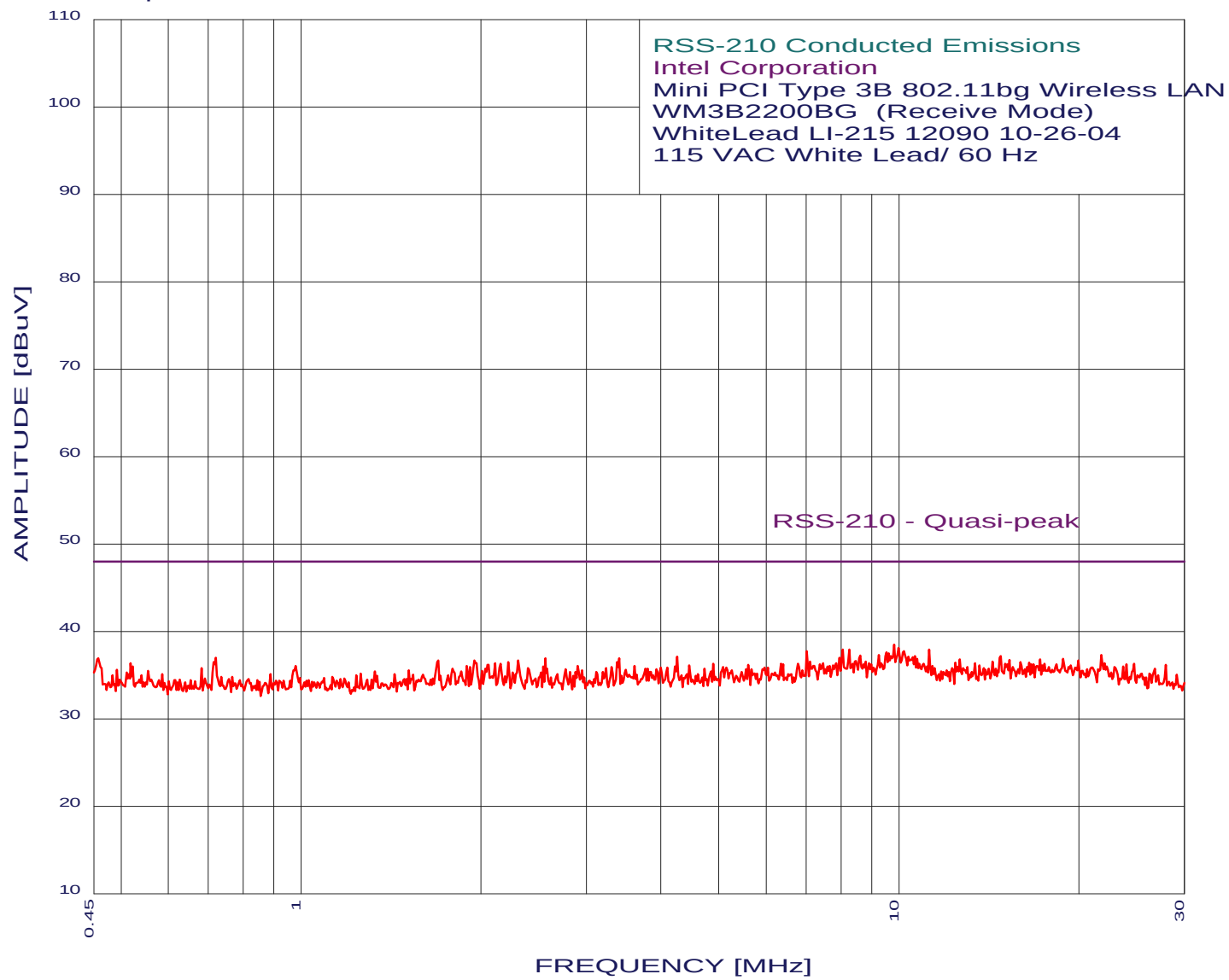
 41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line

Peak criteria : 1.00 dB, Curve : Peak

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

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

3/23/2005 21:25:54





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

41 highest peaks above -50.00 dB of RSS-210 - Quasi-peak limit line

Peak criteria : 1.00 dB, Curve : Peak

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