

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

Intel Corporation

Model: WM3B2915ABG

Date: 07/24/04

Tested By: Kyle Fujimoto

Transmit Mode

[illegible]

Intel Corporation

Model: WM3B2915ABG

Date: 07/24/04

Lab: X

Tested By: Kyle Fujimoto

Transmit Mode

Gain : 11.0 (99%) Pk. Pwr.: 16.51 dBm (100%) Pk. Pwr.: 19.95 dBm Avg. Power: 10.08 dBm

[illegible]

[illegible]

Intel Corporation

Model: WM3B2915ABG

Date: 07/24/04

Tested By: Kyle Fujimoto

Transmit Mode

Gain : 12.5 (99%) Pk. Pwr.: 16.55 dBm (100%) Pk. Pwr.: 19.86 dBm Avg. Power: 10.12 dBm

[illegible]

Intel Corporation
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter
Model: WM3B2915ABG
Configuration: HP Laptop Agency Series Number: SI1

Tested By: Kyle Fujimoto

Gain : 18.5 (99%) Pk. Pwr.: 21.2 dBm (100%) Pk. Pwr.: 22.4 dBm Avg. Power: 16.09 dBm

[illegible]

[illegible]

Intel Corporation

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter

Model: WM3B2915ABG

Configuration: HP Laptop Agency Series Number: SI1

Date: 07/24/04

Lab: X

Tested By: Kyle Fujimoto

Channel 64 - UNII Mode

Transmit Mode

Gain : 18.5 (99%) Pk. Pwr.: 21.19 dBm (100%) Pk. Pwr.: 22.21 dBm Avg. Power: 16.28 dBm

[illegible]

FCC Subpart E

Intel Corporation

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter

Model: WM3B2915ABG

Configuration: HP Laptop Agency Series Number: SI1

Date: 07/24/04

Lab: X

Tested By: Kyle Fujimoto

Channel 36 - UNII Mode**Transmit Mode**

Gain : 11.0 (99%) Pk. Pwr.: 16.51 dBm (100%) Pk. Pwr.: 19.95 dBm Avg. Power: 10.08 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
6906.67	53.38	V	88.3	-34.92	Peak	2.77	270	Fundamental of LO for
6906.7	39.68	V	68.3	-28.62	Avg	2.77	270	Channel 36
13813.3	52.36	V	88.3	-35.94	Peak	2.77	90	2nd Harmonic of LO for
13813	41.39	V	68.3	-26.91	Avg	2.77	90	Channel 36
20720	44.12	V	74	-29.88	Peak	2.25	135	3rd Harmonic of LO for
20720	30.27	V	54	-23.73	Avg	2.25	135	Channel 36
27626.7		V	88.3	-88.3	Peak			No Emissions
27626.7		V	68.3	-68.3	Avg			Detected
34533.3		V	88.3	-88.3	Peak			No Emissions
34533.3		V	68.3	-68.3	Avg			Detected
6906.67	51.75	H	88.3	-36.55	Peak	2.65	180	Fundamental of LO for
6906.7	38.85	H	68.3	-29.45	Avg	2.65	180	Channel 36
13813.3	61.26	H	88.3	-27.04	Peak	2.65	225	2nd Harmonic of LO for
13813	47.39	H	68.3	-20.91	Avg	2.65	225	Channel 36
20720	44.27	H	74	-29.73	Peak	2.5	180	3rd Harmonic of LO for
20720	30.15	H	54	-23.85	Avg	2.5	180	Channel 36
27626.7		H	88.3	-88.3	Peak			No Emissions
27626.7		H	68.3	-68.3	Avg			Detected
34533.3		H	88.3	-88.3	Peak			No Emissions
34533.3		H	68.3	-68.3	Avg			Detected
								Only the 3rd Harmonic of the LO
								is in the Restricted Band

FCC Subpart E

Intel Corporation
 Intel Mini PCI Type 802.11ABG Wireless LAN Adapter
 Model: WM3B2915ABG
 Configuration: HP Laptop Agency Series Number: SI1

Date: 07/24/04

Lab: X

Tested By: Kyle Fujimoto

Channel 48 - UNII Mode**Transmit Mode**

Gain : 12.5 (99%) Pk. Pwr.: 16.55 dBm (100%) Pk. Pwr.: 19.86 dBm Avg. Power: 10.12 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
6986.67	53.1	V	88.3	-35.2	Peak	2.79	270	Fundamental of LO for
6986.7	39.3	V	68.3	-29	Avg	2.79	270	Channel 48
13973.3	58.3	V	88.3	-30	Peak	2.78	270	2nd Harmonic of LO for
13973	46.34	V	68.3	-21.96	Avg	2.78	270	Channel 48
20960	45.47	V	74	-28.53	Peak	2.5	225	3rd Harmonic of LO for
20960	30.89	V	54	-23.11	Avg	2.5	225	Channel 48
27946.7		V	88.3	-88.3	Peak			No Emissions
27946.7		V	68.3	-68.3	Avg			Detected
34933		V	88.3	-88.3	Peak			No Emissions
34933		V	68.3	-68.3	Avg			Detected
6986.67	51.88	H	88.3	-36.42	Peak	2.65	225	Fundamental of LO for
6986.7	35.25	H	68.3	-33.05	Avg	2.65	225	Channel 48
13973.3	60.81	H	88.3	-27.49	Peak	2.65	135	2nd Harmonic of LO for
13973	46.27	H	68.3	-22.03	Avg	2.65	135	Channel 48
20960	44.54	H	74	-29.46	Peak	2.5	180	3rd Harmonic of LO for
20960	30.76	H	54	-23.24	Avg	2.5	180	Channel 48
27946.7		H	88.3	-88.3	Peak			No Emissions
27946.7		H	68.3	-68.3	Avg			Detected
34933		H	88.3	-88.3	Peak			No Emissions
34933		H	68.3	-68.3	Avg			Detected
								Only the 3rd Harmonic of the LO
								is in the Restricted Band

FCC Subpart E

Intel Corporation

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter

Model: WM3B2915ABG

Configuration: HP Laptop Agency Series Number: SI1

Date: 07/24/04

Lab: X

Tested By: Kyle Fujimoto

Channel 52 - UNII Mode**Transmit Mode**

Gain : 18.5 (99%) Pk. Pwr.: 21.2 dBm (100%) Pk. Pwr.: 22.4 dBm Avg. Power: 16.09 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7013.33	49.32	V	88.3	-38.98	Peak	2.79	315	Fundamental of LO for
7013.3	38.31	V	68.3	-29.99	Avg	2.79	315	Channel 52
14026.7	59.46	V	88.3	-28.84	Peak	2.79	315	2nd Harmonic of LO for
14026.7	46.38	V	68.3	-21.92	Avg	2.79	315	Channel 52
21040	45.46	V	74	-28.54	Peak	2.75	315	3rd Harmonic of LO for
21040	31.32	V	54	-22.68	Avg	2.75	315	Channel 52
28053		V	88.3	-88.3	Peak			No Emissions
28053		V	68.3	-68.3	Avg			Detected
35066		V	88.3	-88.3	Peak			No Emissions
35066		V	68.3	-68.3	Avg			Detected
7013.33	50.46	H	88.3	-37.84	Peak	2.65	270	Fundamental of LO for
7013.3	37.88	H	68.3	-30.42	Avg	2.65	270	Channel 52
14026.7	59.24	H	88.3	-29.06	Peak	2.65	225	2nd Harmonic of LO for
14026.7	46.24	H	68.3	-22.06	Avg	2.65	225	Channel 52
21040	44.81	H	74	-29.19	Peak	2.5	225	3rd Harmonic of LO for
21040	31.25	H	54	-22.75	Avg	2.5	225	Channel 52
28053		H	88.3	-88.3	Peak			No Emissions
28053		H	68.3	-68.3	Avg			Detected
35066		H	88.3	-88.3	Peak			No Emissions
35066		H	68.3	-68.3	Avg			Detected
								Only the 3rd Harmonic of the LO
								is in the Restricted Band

FCC Subpart E

Intel Corporation
 Intel Mini PCI Type 802.11ABG Wireless LAN Adapter
 Model: WM3B2915ABG
 Configuration: HP Laptop Agency Series Number: SI1

Date: 07/24/04

Lab: X

Tested By: Kyle Fujimoto

Channel 64 - UNII Mode**Transmit Mode**

Gain : 18.5 (99%) Pk. Pwr.: 21.19 dBm (100%) Pk. Pwr.: 22.21 dBm Avg. Power: 16.28 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7093.33	52.53	V	74	-21.47	Peak	2.79	180	Fundamental of LO for
7093.3	39.01	V	54	-14.99	Avg	2.79	180	Channel 64
14186.7	60.23	V	88.3	-28.07	Peak	2.79	180	2nd Harmonic of LO for
14186.7	48.13	V	68.3	-20.17	Avg	2.79	180	Channel 64
21280	45.24	V	88.3	-43.06	Peak	2.25	270	3rd Harmonic of LO for
21280	31.61	V	68.3	-36.69	Avg	2.25	270	Channel 64
28373.3		V	88.3	-88.3	Peak			No Emissions
28373.3		V	68.3	-68.3	Avg			Detected
35466.7		V	88.3	-88.3	Peak			No Emissions
35467.3		V	68.3	-68.3	Avg			Detected
7093.33	52.13	H	88.3	-36.17	Peak	2.65	315	Fundamental of LO for
7093.33	38.81	H	68.3	-29.49	Avg	2.65	315	Channel 64
14186.7	61.38	H	88.3	-26.92	Peak	2.65	270	2nd Harmonic of LO for
14186.7	48.03	H	68.3	-20.27	Avg	2.65	270	Channel 64
21280	45.61	H	74	-28.39	Peak	2.75	225	3rd Harmonic of LO for
21280	31.48	H	54	-22.52	Avg	2.75	225	Channel 64
28373.3		H	88.3	-88.3	Peak			No Emissions
28373.3		H	68.3	-68.3	Avg			Detected
35466.7		H	88.3	-88.3	Peak			No Emissions
35467.3		H	68.3	-68.3	Avg			Detected
								Only the 3rd Harmonic of the LO
								is in the Restricted Band

FCC Subpart E

Intel Corporation
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter
Model: WM3B2915ABG
Configuration: HP Laptop Agency Series Number: SI1

Date: 07/24/04

Lab: X

Tested By: Kyle Fujimoto

Channel 48 - UNII**Receive Mode**

Freq. (MHz)	Level (dBUV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
6986.67	51.95	V	80	-28.05	Peak	2.79	315	Fundamental of LO for
6986.7	39.79	V	60	-20.21	Avg	2.79	315	Channel 48
13973.3	59.22	V	80	-20.78	Peak	2.79	45	2nd Harmonic of LO for
13973	46.39	V	60	-13.61	Avg	2.79	45	Channel 48
20960	45.33	V	80	-34.67	Peak	2.5	315	3rd Harmonic of LO for
20960	30.88	V	60	-29.12	Avg	2.5	315	Channel 48
6986.67	51.71	H	80	-28.29	Peak	2.65	315	Fundamental of LO for
6986.7	39.21	H	60	-20.79	Avg	2.65	315	Channel 48
13973.3	59.88	H	80	-20.12	Peak	2.65	270	2nd Harmonic of LO for
13973	46.33	H	60	-13.67	Avg	2.65	270	Channel 48
20960	44.13	H	80	-35.87	Peak	2.5	315	3rd Harmonic of LO for
20960	30.75	H	60	-29.25	Avg	2.5	315	Channel 48

FCC Subpart E

Intel Corporation
Intel Mini PCI Type 802.11ABG Wireless LAN Adapter
Model: WM3B2915ABG
Configuration: HP Laptop Agency Series Number: SI1

Date: 07/24/04

Lab: X

Tested By: Kyle Fujimoto

Channel 52 - UNII**Receive Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
7013.33	50.84	V	80	-29.16	Peak	2.79	270	Fundamental of LO for
7013.3	38.5	V	60	-21.5	Avg	2.79	270	Channel 52
14026.7	58.85	V	80	-21.15	Peak	2.79	270	2nd Harmonic of LO for
14026.7	46.36	V	60	-13.64	Avg	2.79	270	Channel 52
21040	44.82	V	80	-35.18	Peak	2.5	225	3rd Harmonic of LO for
21040	31.33	V	60	-28.67	Avg	2.5	225	Channel 52
7013.33	50.99	H	80	-29.01	Peak	2.65	270	Fundamental of LO for
7013.3	37.95	H	60	-22.05	Avg	2.65	270	Channel 52
14027	58.14	H	80	-21.86	Peak	2.65	225	2nd Harmonic of LO for
14026.7	46.09	H	60	-13.91	Avg	2.65	225	Channel 52
21040	44.57	H	80	-35.43	Peak	2.5	225	3rd Harmonic of LO for
21040	31.23	H	60	-28.77	Avg	2.5	225	Channel 52



Test Location : Compatible Electronics **Page** : 1/1
Customer : INTEL CORPORATION **Date** : 7/28/2004
Manufacturer : INTEL CORPORATION **Time** : 19:50:57
Eut name : Intel Mini PCI 802.11 ABG WLAN Adapter **Lab** : D
Model : WM3B2915ABG **Test Distance** : 3.0 Meters
Serial # :
Specification : FCC Class B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : TEST RANGE 10 kHz - 1000 MHz
VERTICAL AND HORIZONTAL POLARIZATIONS

TESTED BY: BENIGNO CHAVEZ

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	196.648	58.40	1.37	14.80	37.59	36.99	43.50	-6.51
2V	196.699	55.90	1.38	14.81	37.59	34.49	43.50	-9.01
3V	230.124	54.20	1.52	15.97	37.58	34.11	46.00	-11.89
4H	230.201	57.20	1.52	15.97	37.58	37.11	46.00	-8.89
5H	489.092	43.30	2.26	15.84	37.08	24.32	46.00	-21.68
6V	489.129	44.00	2.26	15.84	37.08	25.02	46.00	-20.98
7H	869.834	53.50	2.98	20.92	36.40	40.99	46.00	-5.01

FCC 15.247

Intel Corporation

Date: 07/26/04

Intel Mini PCI Type 802.11ABG Wireless LAN Adapter

Lab: X

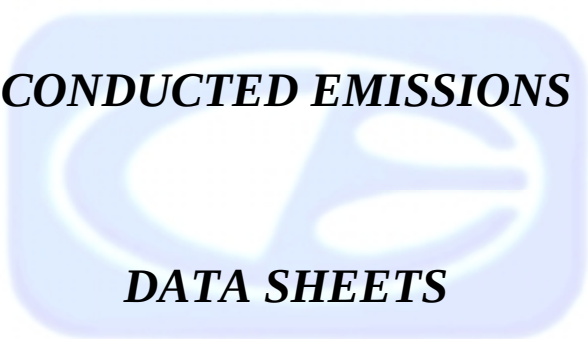
Model: WM3B2915ABG

Tested By: Arnold Gaffud

Configuration: Hewlett Packard Laptop Series Agency Number: SI1

Digital Portion

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
1249.8	32.51	V	74	-41.49	Peak	1.25	135	
1249.8	21.7	V	54	-32.3	Avg	1.25	135	
1400.3	33.63	H	74	-40.37	Peak	2	225	
1400.3	18.89	H	54	-35.11	Avg	2	225	
2068.2	40.36	H	74	-33.64	Peak	2	270	
2068.2	24.59	H	54	-29.41	Avg	2	270	

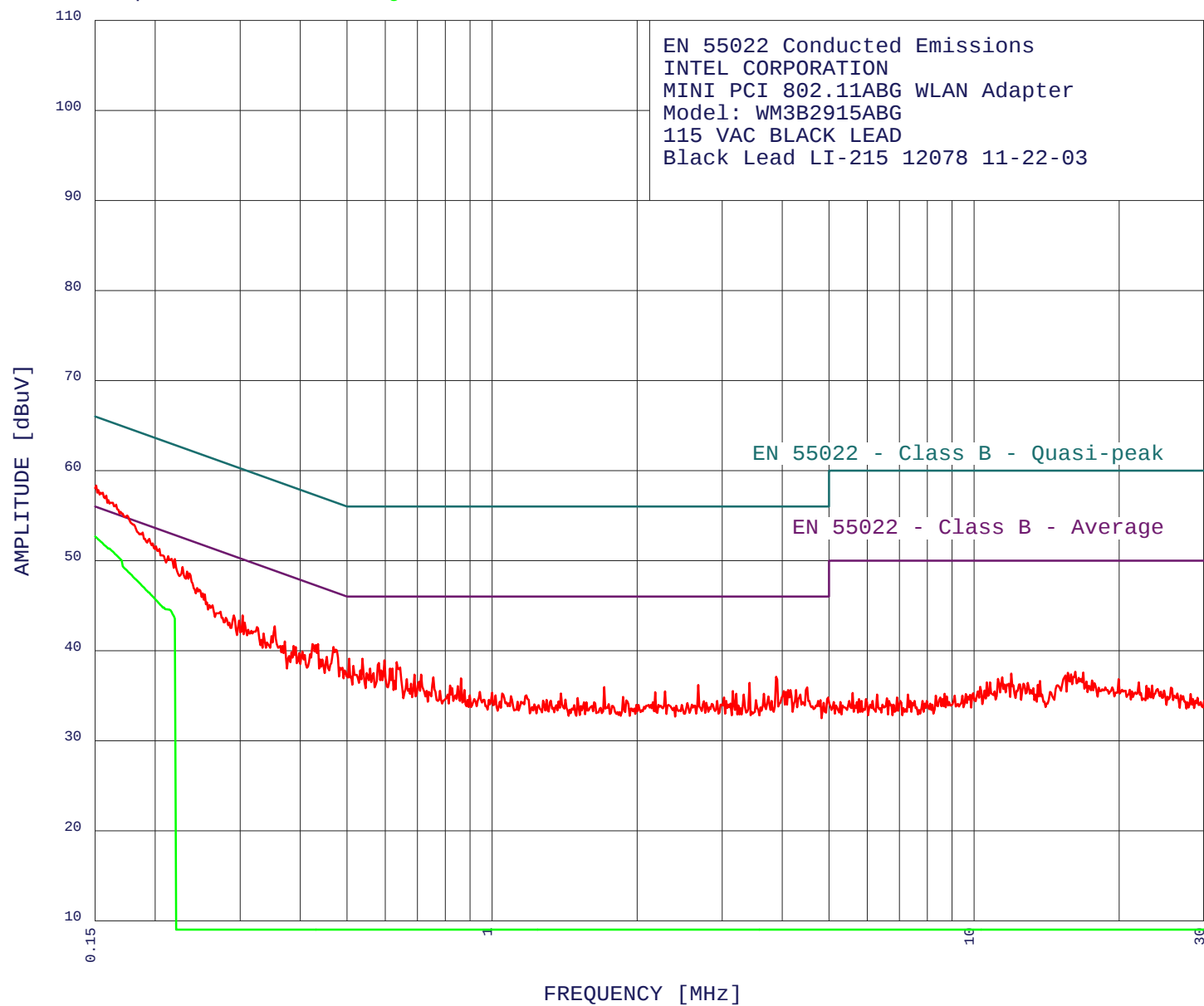


CONDUCTED EMISSIONS

DATA SHEETS

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

7/27/2004 22:19:33





7/27/2004

22:19:33

EN 55022 Conducted Emissions

INTEL CORPORATION

Mini PCI 802.11ABG WLAN Adapter

Model: WM3B2915ABG

115 VAC BLACK LEAD

Black Lead LI-215 12078 11-22-03

TEST ENGINEER : BENIGNO CHAVEZ

48 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line

Peak criteria : 0.10 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.151	58.33	55.95	2.38**
2	0.152	57.83	55.86	1.97**
3	0.154	57.53	55.78	1.75**
4	0.158	57.23	55.56	1.67**
5	0.160	56.72	55.47	1.25**
6	0.166	56.22	55.16	1.06**
7	0.170	55.42	54.98	0.43**
8	0.175	55.01	54.72	0.29**
9	0.188	53.10	54.10	-1.00**
10	0.195	52.40	53.84	-1.44**
11	0.198	51.89	53.71	-1.82**
12	0.201	51.59	53.58	-1.98**
13	0.204	51.29	53.44	-2.15**
14	0.213	50.48	53.09	-2.61**
15	0.220	50.18	52.83	-2.65**
16	0.228	49.27	52.52	-3.25
17	0.233	48.77	52.34	-3.58
18	0.235	48.56	52.25	-3.69
19	0.244	46.96	51.95	-4.99
20	0.247	46.76	51.86	-5.10
21	0.251	46.35	51.73	-5.37
22	0.254	46.25	51.64	-5.39
23	0.469	40.41	46.53	-6.12
24	0.354	42.71	48.87	-6.16
25	0.256	45.35	51.55	-6.20
26	0.304	43.91	50.14	-6.23
27	0.263	45.04	51.33	-6.29
28	0.474	40.11	46.45	-6.34
29	0.259	45.05	51.47	-6.42
30	0.435	40.71	47.15	-6.44
31	0.291	43.92	50.49	-6.57
32	0.431	40.61	47.24	-6.63
33	0.424	40.71	47.37	-6.66
34	0.273	44.33	51.02	-6.69
35	0.538	39.11	46.00	-6.89
36	0.505	39.11	46.00	-6.89
37	0.307	43.11	50.05	-6.95
38	0.299	43.31	50.28	-6.96
39	0.325	42.61	49.57	-6.97
40	0.598	38.92	46.00	-7.08
41	0.280	43.63	50.81	-7.18
42	0.634	38.72	46.00	-7.28
43	0.583	38.62	46.00	-7.38
44	0.348	41.61	49.00	-7.39
45	0.336	41.91	49.31	-7.40
46	0.371	41.01	48.47	-7.46
47	0.454	39.31	46.80	-7.49
48	0.285	43.13	50.67	-7.55



EN 55022 Conducted Emissions

INTEL CORPORATION

Mini PCI 802.11ABG WLAN Adapter

Model: WM3B2915ABG

115 VAC BLACK LEAD

Black Lead LI-215 12078 11-22-03

TEST ENGINEER : BENIGNO CHAVEZ

3 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line

Peak criteria : 0.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
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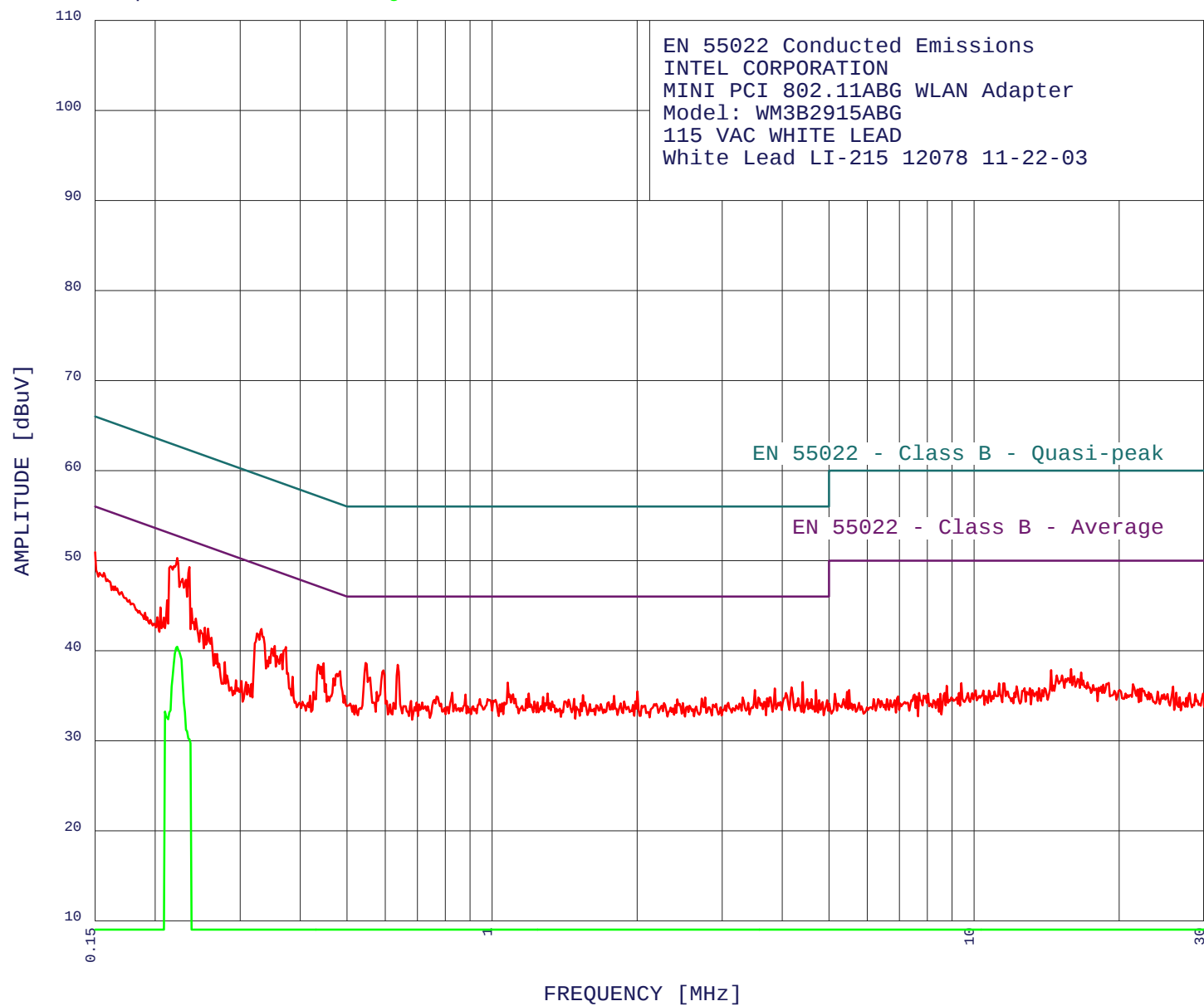
1	0.161	51.35	55.43	-4.07
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2	0.214	44.57	53.05	-8.48
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3	0.208	44.79	53.27	-8.48
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EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

7/27/2004 22:30:50




**COMPATIBLE
ELECTRONICS**

7/27/2004

22:30:50

EN 55022 Conducted Emissions

INTEL CORPORATION

MINI PCI 802.11ABG WLAN Adapter

Model: WM3B2915ABG

115 VAC WHITE LEAD

White Lead LI-215 12078 11-22-03

TEST ENGINEER : BENIGNO CHAVEZ

48 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.222	50.27	52.74	-2.46**
2	0.235	49.26	52.25	-2.99**
3	0.332	42.41	49.39	-6.99
4	0.547	38.61	46.00	-7.39
5	0.238	44.66	52.17	-7.50
6	0.212	45.58	53.14	-7.56**
7	0.637	38.42	46.00	-7.58
8	0.373	40.41	48.43	-8.02
9	0.595	37.82	46.00	-8.18
10	0.447	38.61	46.93	-8.32
11	0.354	40.51	48.87	-8.36
12	0.243	43.56	52.00	-8.44
13	0.484	37.71	46.27	-8.56
14	0.205	44.79	53.40	-8.61
15	0.435	38.41	47.15	-8.74
16	0.365	39.61	48.61	-9.00
17	0.258	42.45	51.51	-9.06
18	0.254	42.55	51.64	-9.09
19	4.408	36.51	46.00	-9.49
20	0.248	42.25	51.82	-9.56
21	1.077	36.43	46.00	-9.57
22	0.208	43.69	53.27	-9.58
23	0.202	43.69	53.53	-9.84
24	4.182	35.91	46.00	-10.09
25	3.862	35.81	46.00	-10.19
26	4.696	35.61	46.00	-10.39
27	3.511	35.61	46.00	-10.39
28	2.002	35.46	46.00	-10.54
29	0.826	35.32	46.00	-10.68
30	4.071	35.31	46.00	-10.69
31	1.304	35.24	46.00	-10.76
32	1.191	35.24	46.00	-10.76
33	0.881	35.13	46.00	-10.87
34	1.544	35.05	46.00	-10.95
35	1.790	34.96	46.00	-11.04
36	0.385	37.11	48.16	-11.05
37	0.767	34.92	46.00	-11.08
38	1.276	34.84	46.00	-11.16
39	3.781	34.81	46.00	-11.19
40	3.565	34.81	46.00	-11.19
41	3.311	34.81	46.00	-11.19
42	2.766	34.79	46.00	-11.21
43	4.316	34.71	46.00	-11.29
44	1.480	34.65	46.00	-11.35
45	0.979	34.63	46.00	-11.37
46	0.944	34.63	46.00	-11.37
47	4.600	34.61	46.00	-11.39
48	4.504	34.61	46.00	-11.39

**COMPATIBLE
ELECTRONICS**

7/27/2004

22:30:50

EN 55022 Conducted Emissions
INTEL CORPORATION
MINI PCI 802.11ABG WLAN Adapter
Model: WM3B2915ABG
115 VAC WHITE LEAD
WhiteLead LI-215 12078 11-22-0
TEST ENGINEER : BENIGNO CHAVEZ

2 highest peaks above -50.00 dB of EN 55022 - Class B - Average limit line

Peak criteria : 0.00 dB, Curve : Average

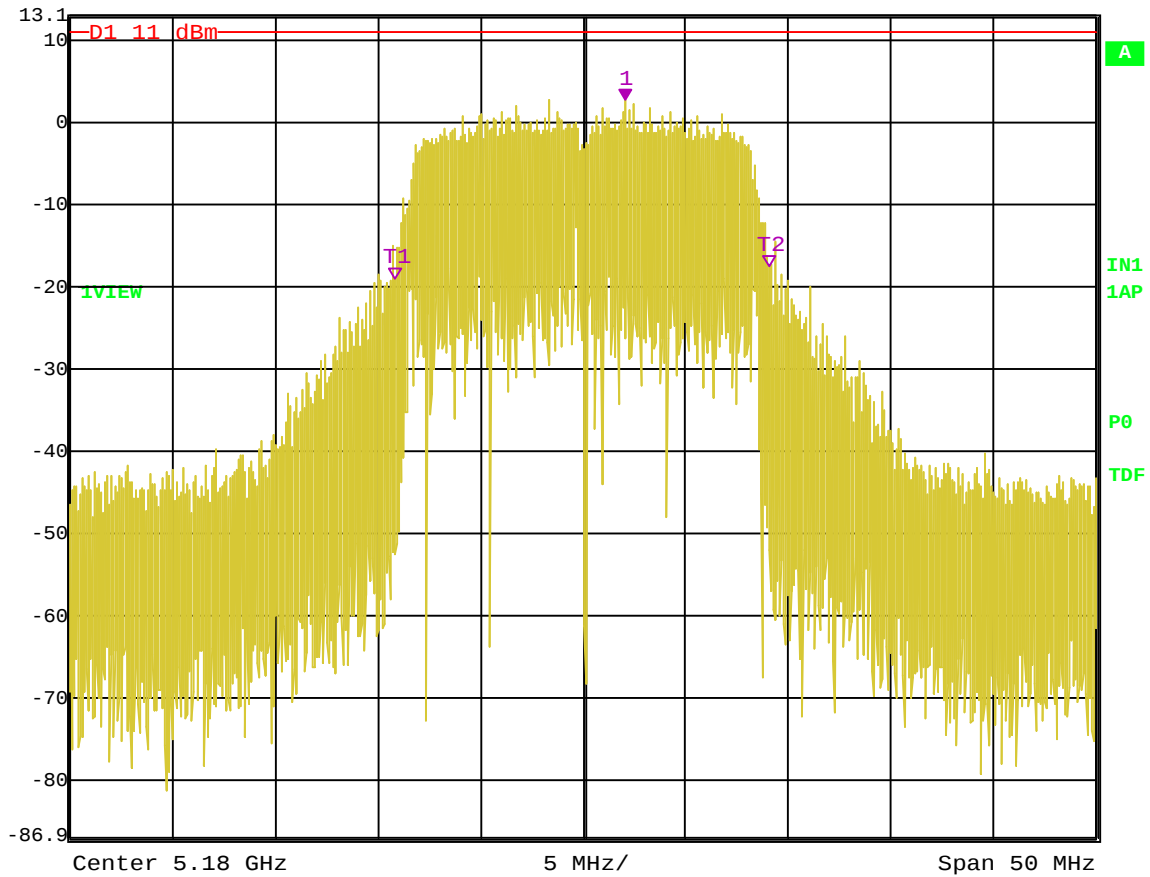
Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.222	40.41	52.74	-12.32
2	0.210	33.22	53.23	-20.00

-20 dB BANDWIDTH

DATA SHEETS



Ref Lvl	Marker 1 [T1 ndB]	RBW	500 kHz	RF Att	40 dB
13.1 dBm	ndB 20.00 dB	VBW	1 MHz		
	BW 18.23647295 MHz	SWT	5 ms	Unit	dBm

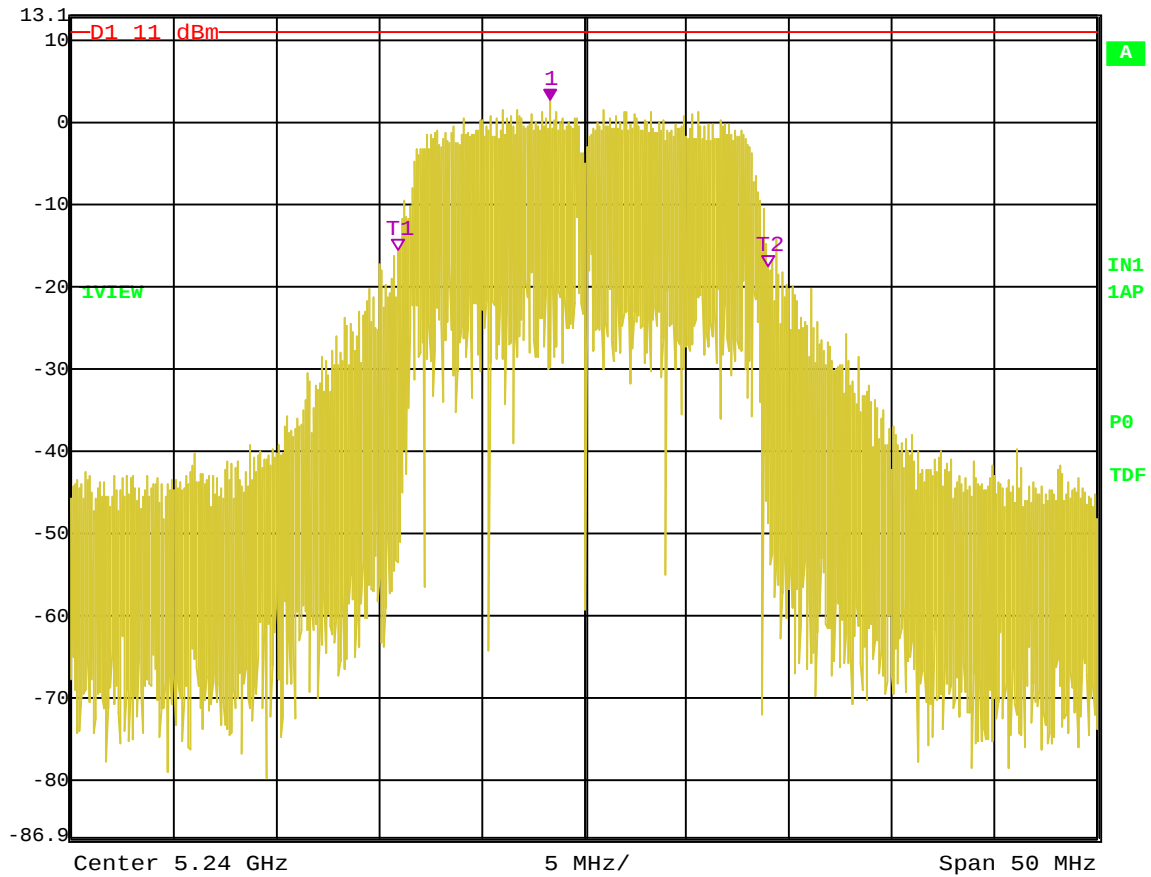


Date: 27.JUL.2004 09:00:09

Bandwidth 20 dB – Channel 36 – UNII Mode



Ref Lvl	Marker 1 [T1 ndB]	RBW	500 kHz	RF Att	40 dB
13.1 dBm	ndB 20.00 dB	VBW	1 MHz		
	BW 18.03607214 MHz	SWT	5 ms	Unit	dBm

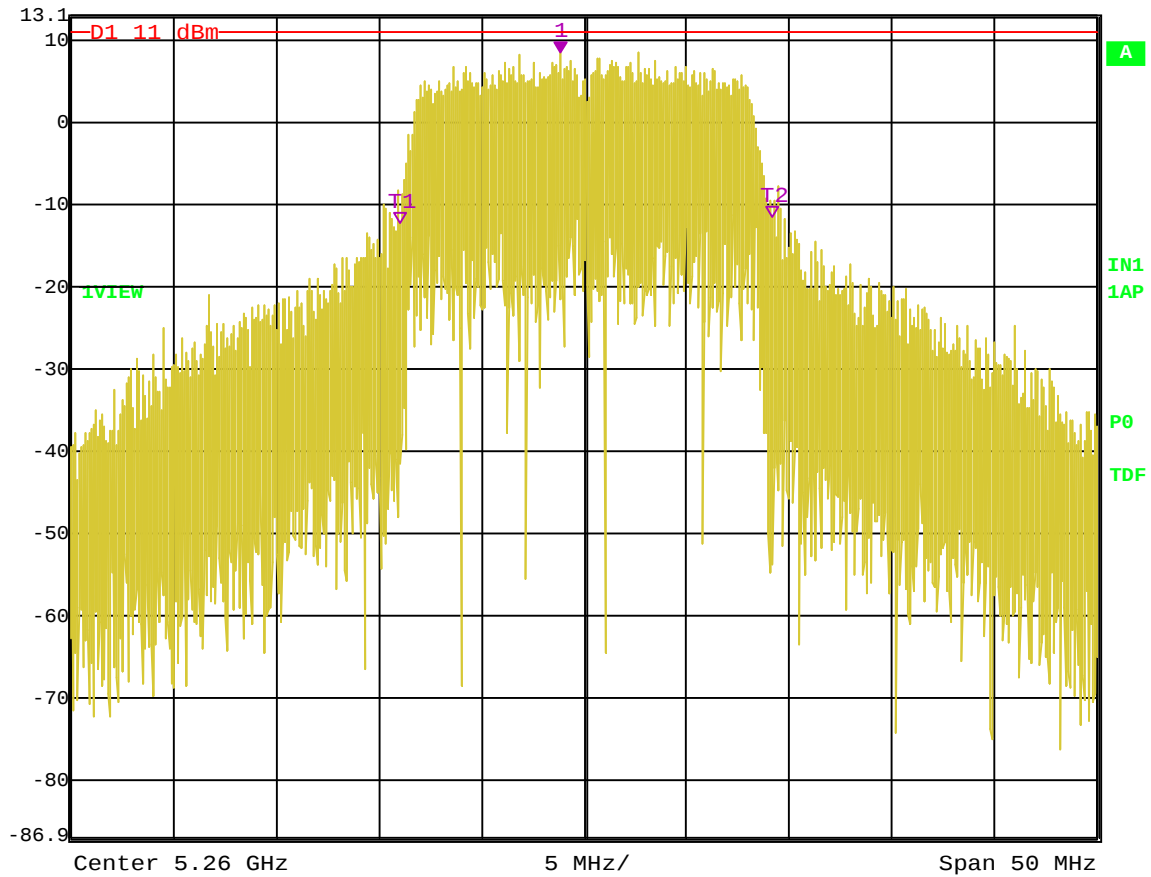


Date: 27.JUL.2004 09:02:00

Bandwidth 20 dB – Channel 48 – UNII Mode

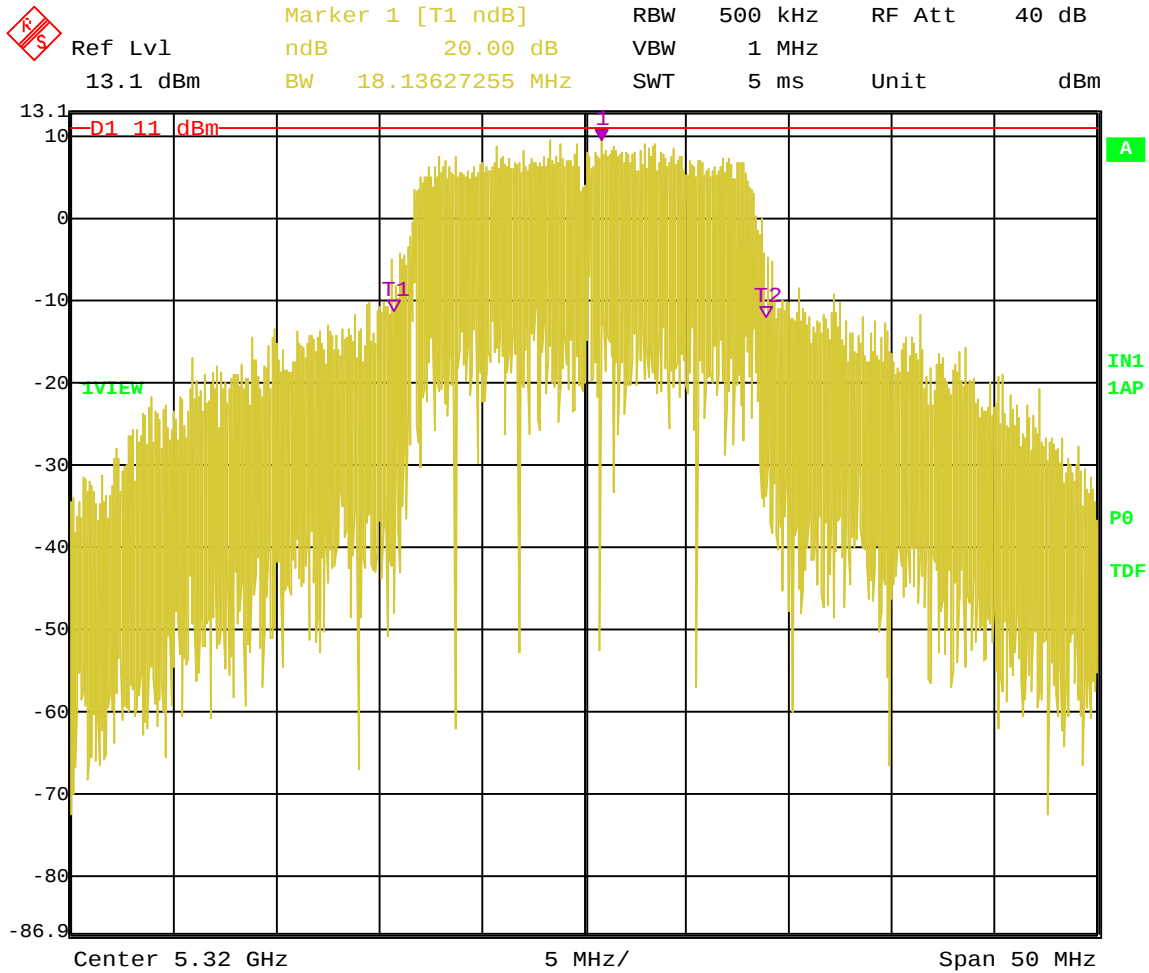


Ref Lvl 13.1 dBm
Marker 1 [T1 ndB] 20.00 dB
BW 18.13627255 MHz
RBW 500 kHz
VBW 1 MHz
RF Att 40 dB
SWT 5 ms
Unit dBm



Date: 27.JUL.2004 09:03:59

Bandwidth 20 dB – Channel 52 – UNII Mode



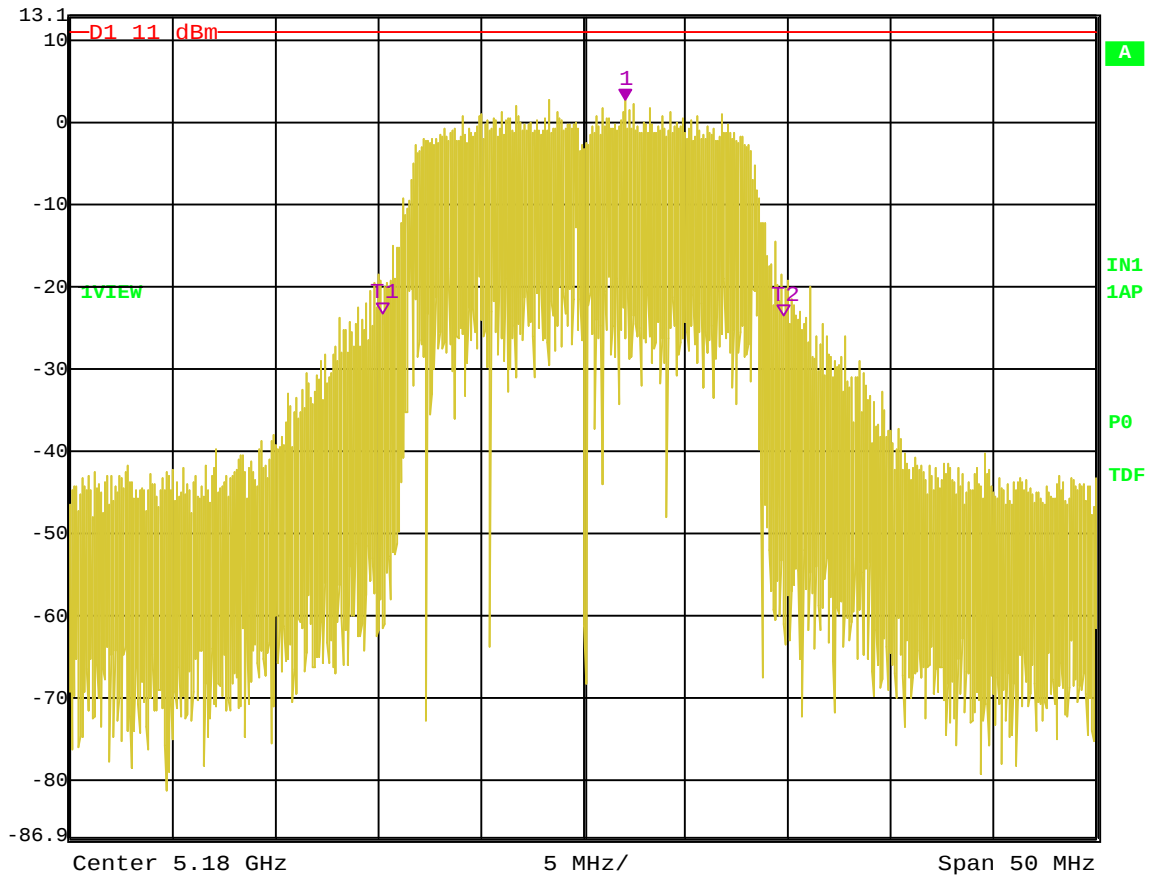
Bandwidth 20 dB – Channel 64 – UNII Mode

-26 dB BANDWIDTH

DATA SHEETS



Ref Lvl	Marker 1 [T1 ndB]	RBW	500 kHz	RF Att	40 dB
13.1 dBm	ndB 26.00 dB	VBW	1 MHz		
	BW 19.53907816 MHz	SWT	5 ms	Unit	dBm

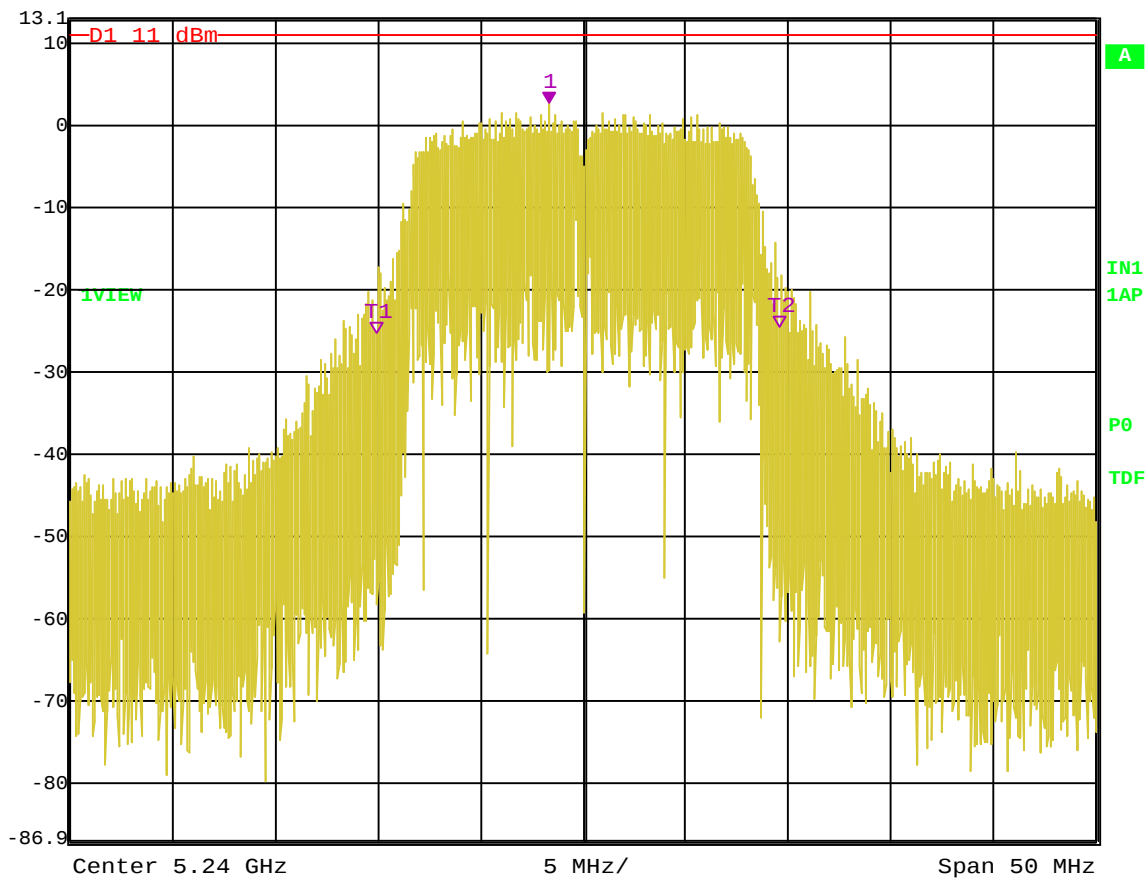


Date: 27.JUL.2004 09:00:36

Bandwidth 26 dB – Channel 36 – UNII Mode



Ref Lvl	Marker 1 [T1 ndB]	RBW	500 kHz	RF Att	40 dB
13.1 dBm	ndB 26.00 dB	VBW	1 MHz		
	BW 19.63927856 MHz	SWT	5 ms	Unit	dBm

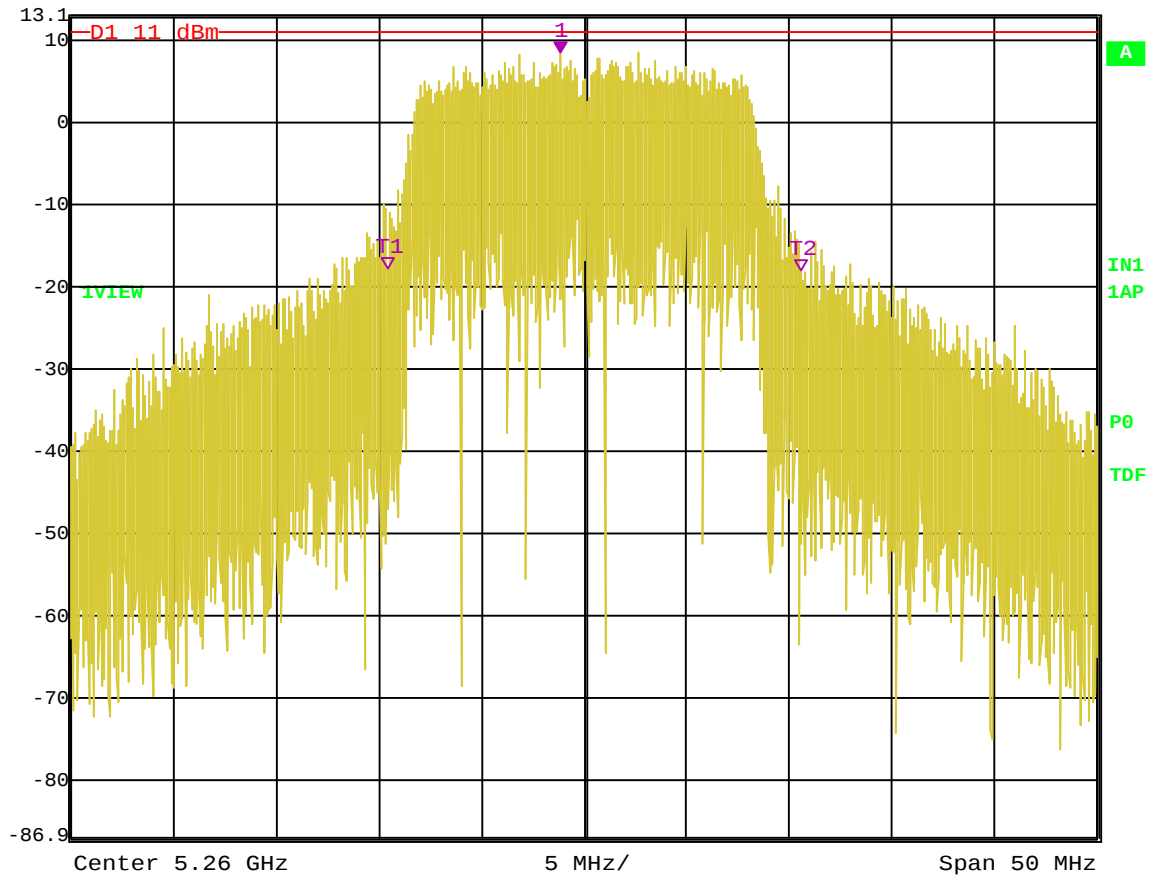


Date: 27.JUL.2004 09:02:24

Bandwidth 20 dB – Channel 48 – UNII Mode



Ref Lvl	Marker 1 [T1 ndB]	RBW	500 kHz	RF Att	40 dB
13.1 dBm	ndB 26.00 dB	VBW	1 MHz		
	BW 20.14028056 MHz	SWT	5 ms	Unit	dBm

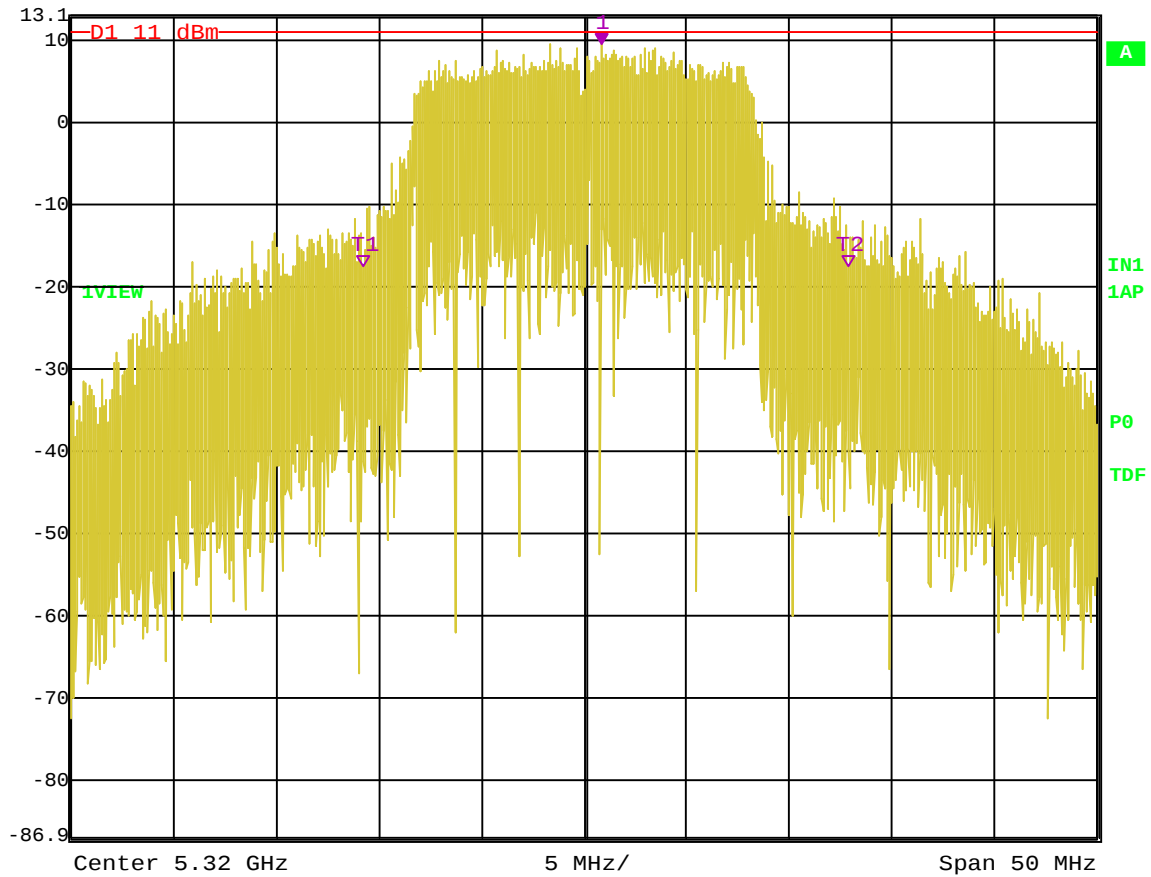


Date: 27.JUL.2004 09:03:29

Bandwidth 26 dB – Channel 52 – UNII Mode



Ref Lvl	Marker 1 [T1 ndB]	RBW	500 kHz	RF Att	40 dB
13.1 dBm	ndB 26.00 dB	VBW	1 MHz		
	BW 23.64729459 MHz	SWT	5 ms	Unit	dBm



Date: 27.JUL.2004 09:10:03

Bandwidth 26 dB – Channel 64 – UNII Mode

PEAK TRANSMIT POWER

DATA SHEETS

PEAK OUTPUT POWER

Intel Corporation

Intel Mini PCI Type 802.11 ABG Wireless LAN Adapter

MODEL: WM3B2915ABG

For use in the HP Agency Series #: SI1

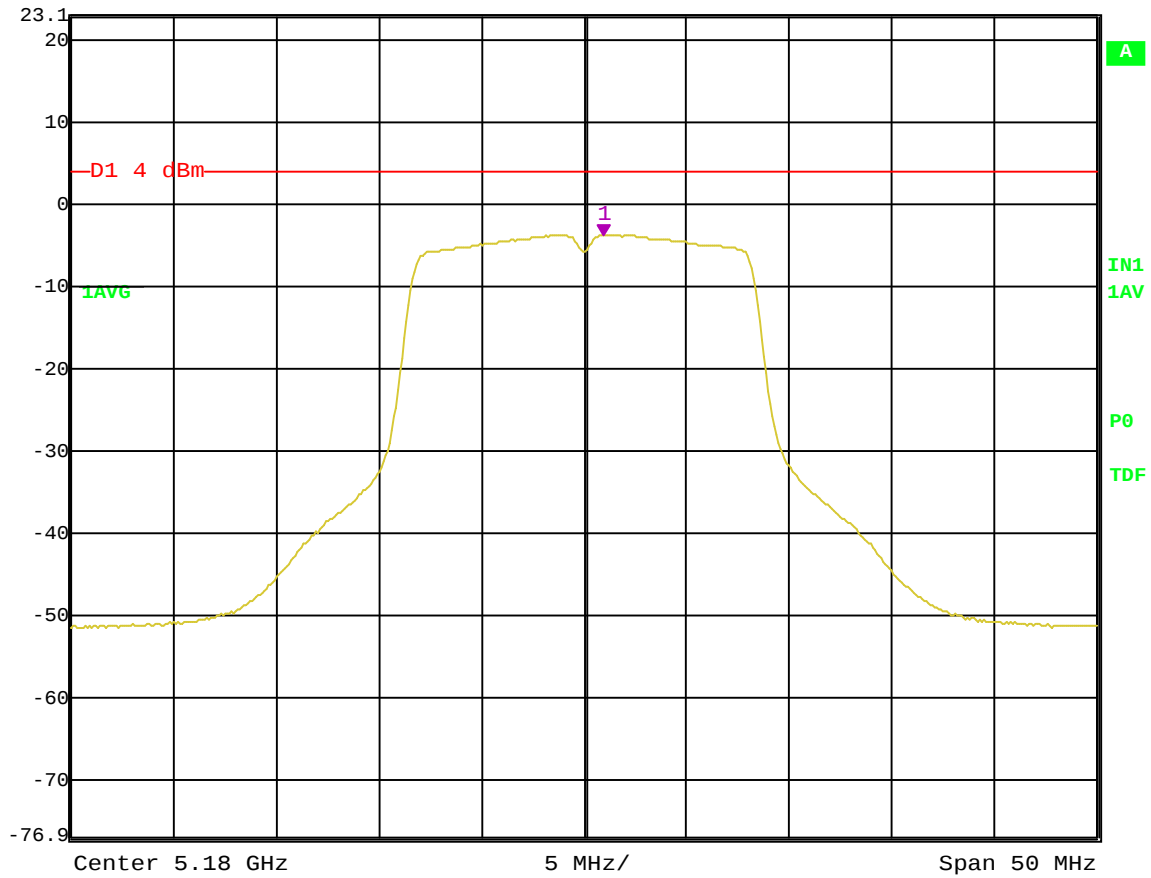
UNII Mode (Worst Case Rate is 6 Mbps)

CHANNEL	GAIN	PEAK POWER OUTPUT (dBm)
36 (5180 MHz)	11.0	16.51
48 (5240 MHz)	12.5	16.55
52 (5260 MHz)	18.5	21.20
64 (5320 MHz)	18.5	21.19

PEAK POWER SPECTRAL DENSITY
DATA SHEETS



Ref Lvl 23.1 dBm
Marker 1 [T1] -3.72 dBm 5.18095190 GHz
RBW 1 MHz RF Att 40 dB
VBW 3 MHz
SWT 5 ms Unit dBm

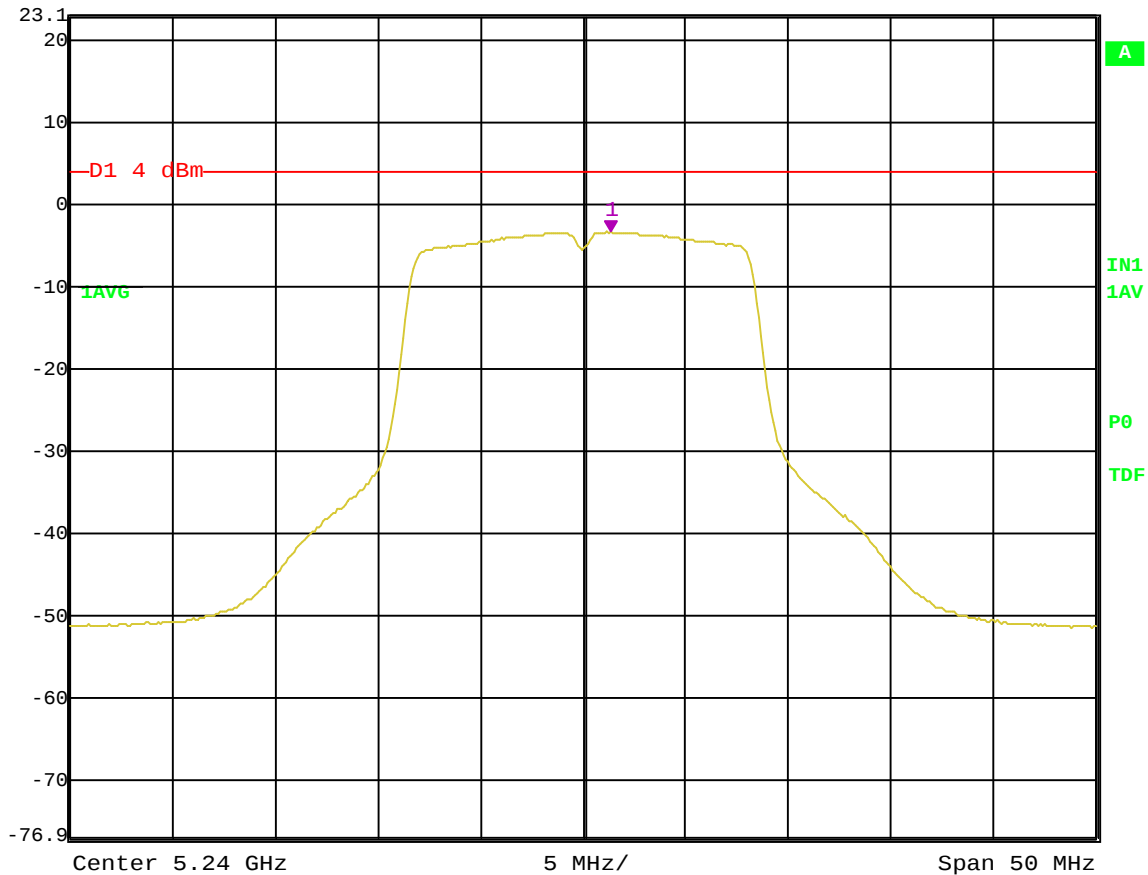


Date: 27.JUL.2004 09:28:42

Peak Power Spectral Density – Channel 36 – UNII Mode – FCC Method



Ref Lvl 23.1 dBm
Marker 1 [T1] 5.24135271 GHz -3.36 dBm
RBW 1 MHz RF Att 40 dB
VBW 3 MHz
SWT 5 ms Unit dBm

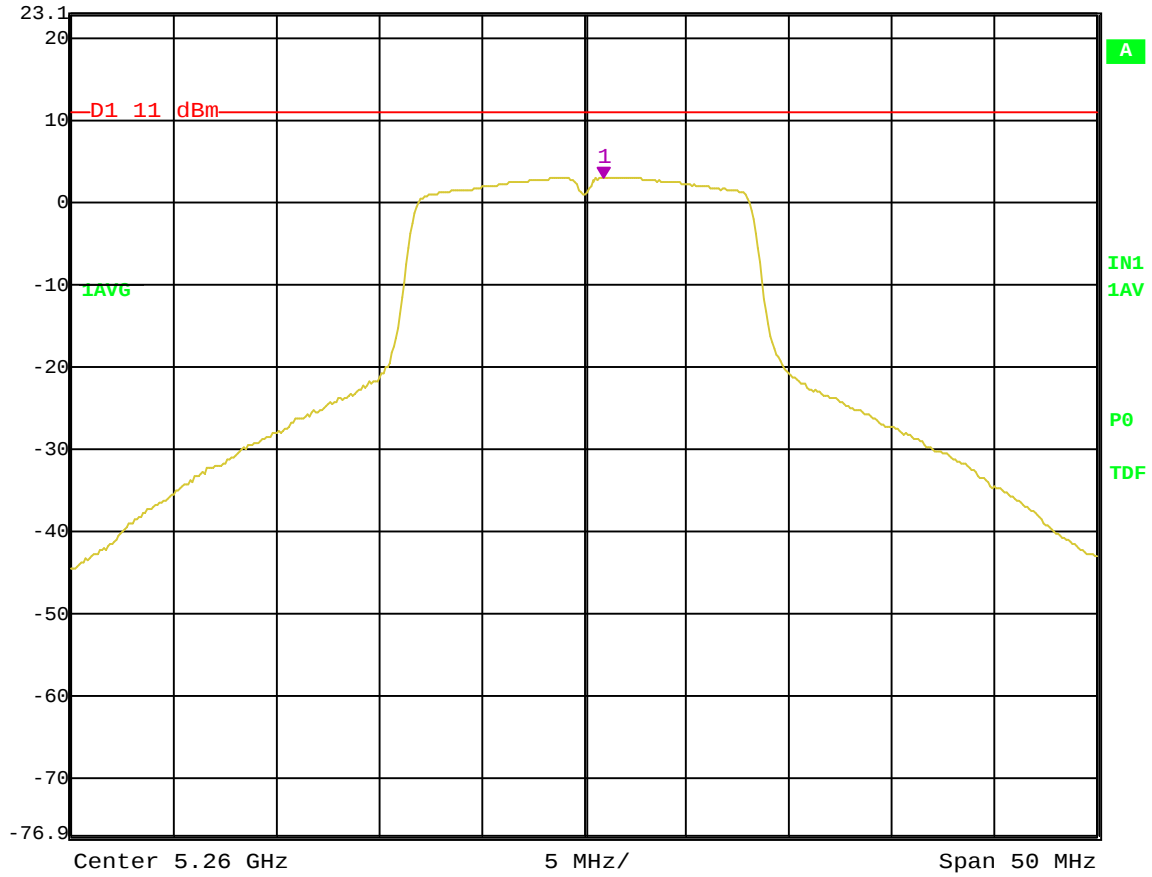


Date: 27.JUL.2004 09:32:37

Peak Power Spectral Density – Channel 48 – UNII Mode – FCC Method



Ref Lvl 23.1 dBm
Marker 1 [T1] 3.05 dBm
RBW 1 MHz RF Att 40 dB
VBW 3 MHz
SWT 5 ms Unit dBm

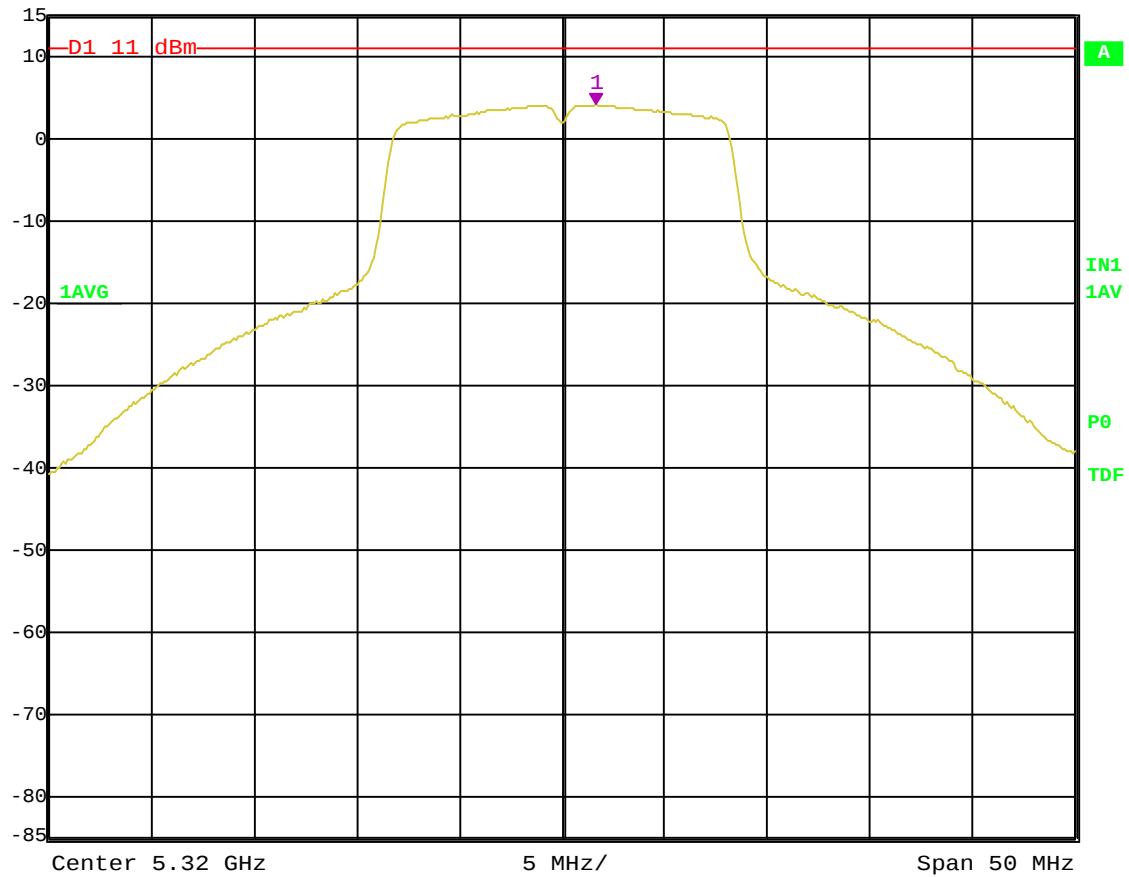


Date: 27.JUL.2004 09:33:41

Peak Power Spectral Density – Channel 52 – UNII Mode – FCC Method

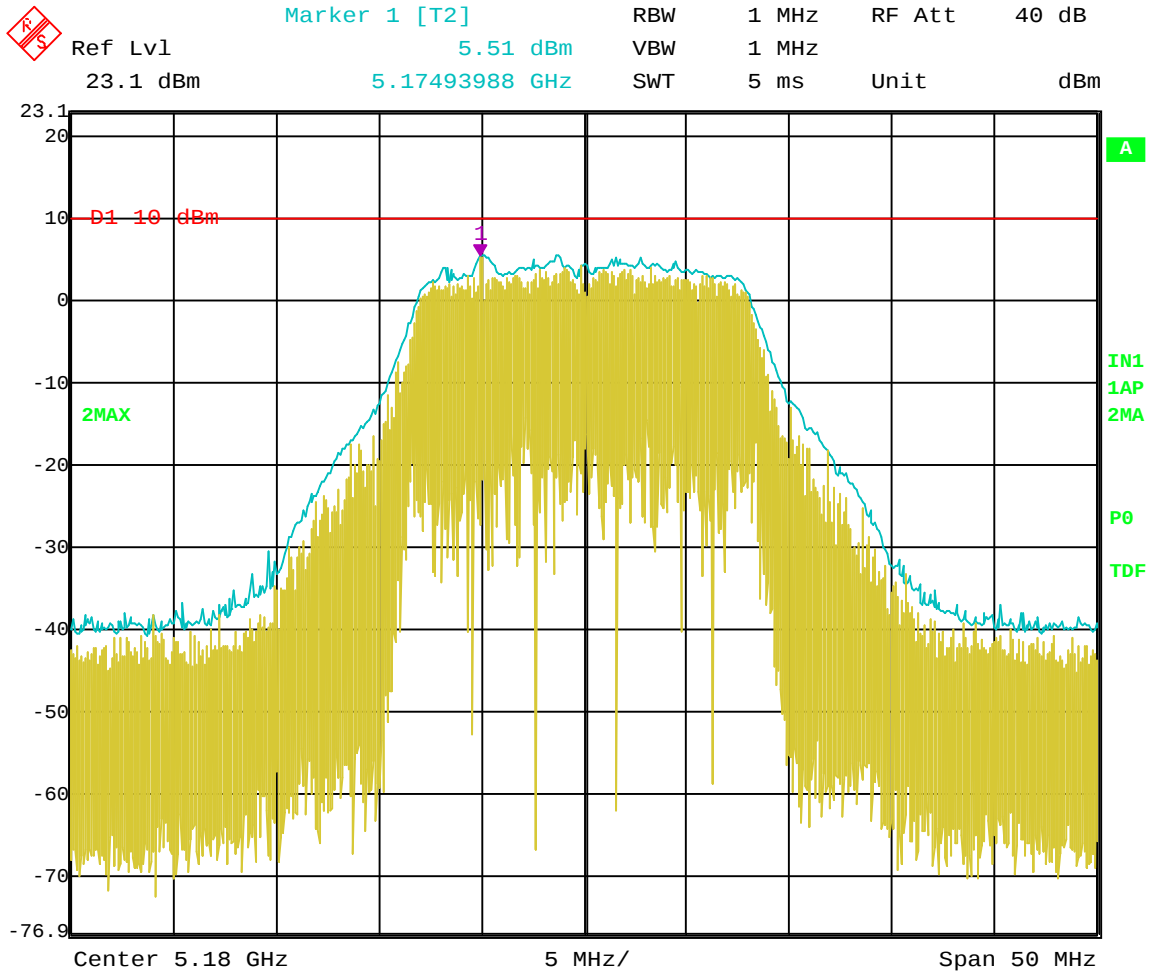


Ref Lvl 15 dBm
Marker 1 [T1] 4.07 dBm 5.32165331 GHz
RBW 1 MHz RF Att 30 dB
VBW 3 MHz
SWT 5 ms Unit dBm



Date: 27.JUL.2004 09:48:11

Peak Power Spectral Density – Channel 64 – UNII Mode – FCC Method

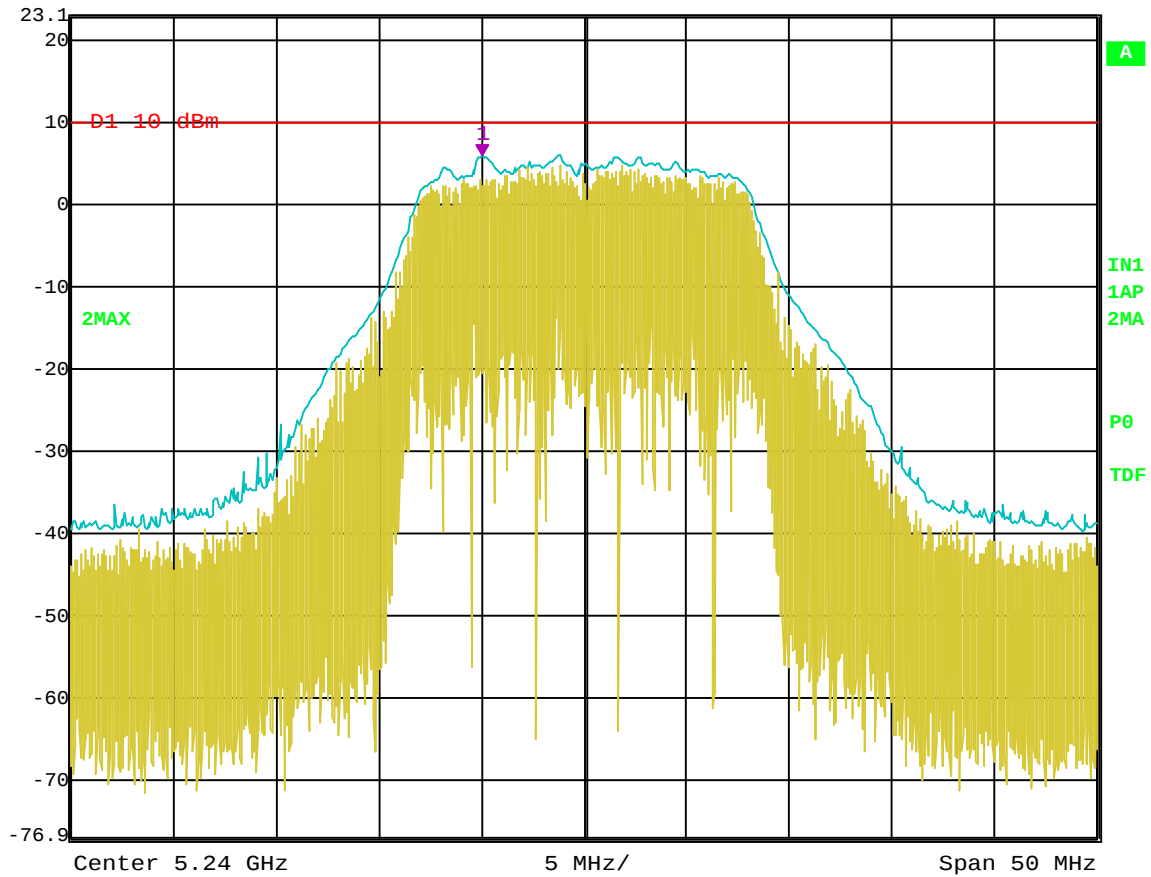


Date: 27.JUL.2004 09:29:50

Peak Power Spectral Density – Channel 36 – UNII Mode – RSS-210 Method



Ref Lvl 23.1 dBm
Marker 1 [T2] 5.98 dBm
5.23504008 GHz
RBW 1 MHz RF Att 40 dB
VBW 1 MHz
SWT 5 ms Unit dBm

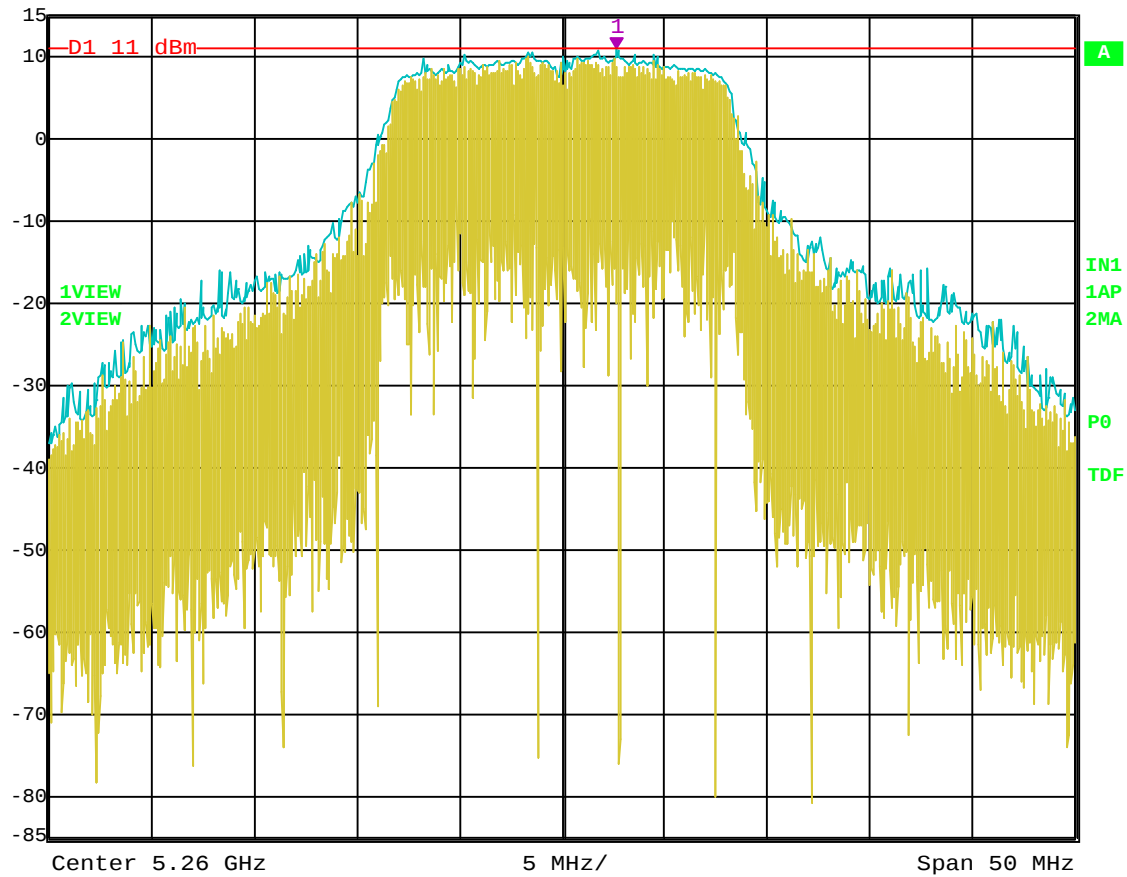


Date: 27.JUL.2004 09:31:35

Peak Power Spectral Density – Channel 48 – UNII Mode – RSS-210 Method



Ref Lvl 15 dBm
Marker 1 [T2] 10.76 dBm
5.26265531 GHz
RBW 1 MHz RF Att 30 dB
VBW 1 MHz
SWT 5 ms Unit dBm

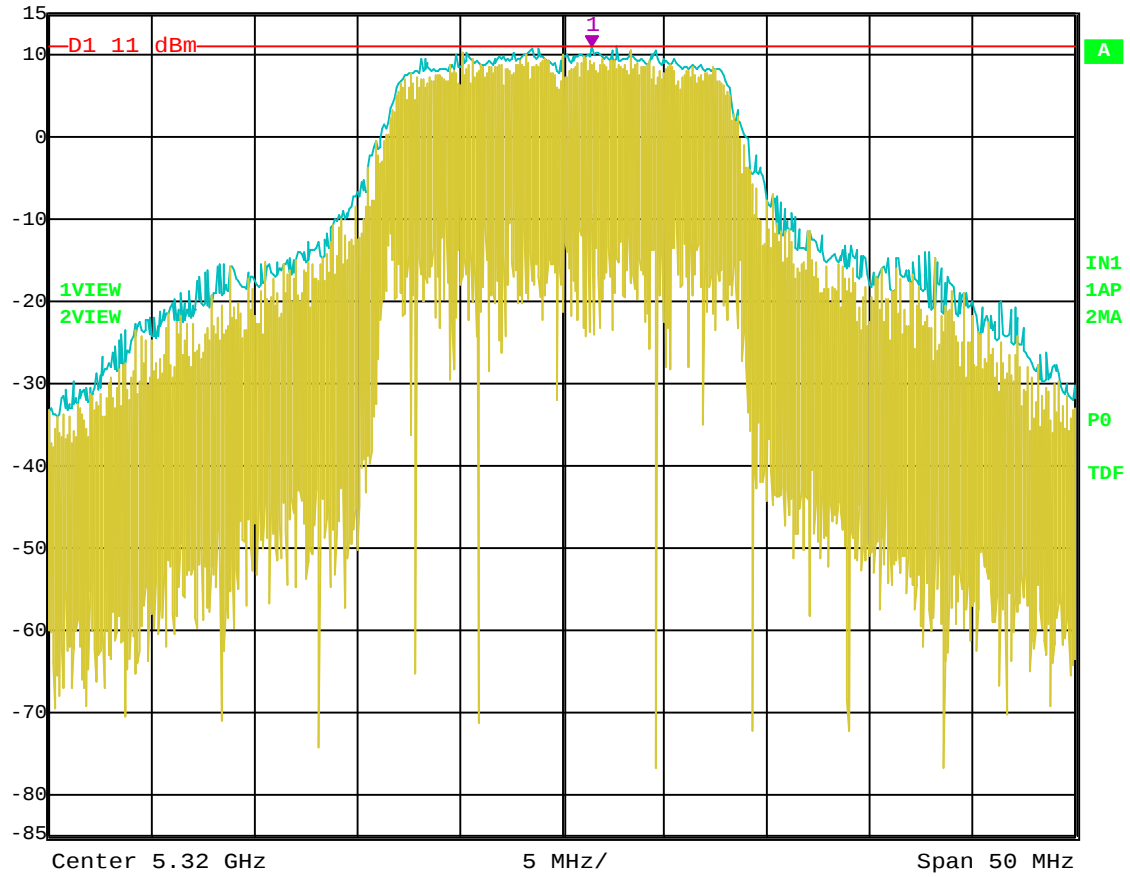


Date: 27.JUL.2004 09:38:21

Peak Power Spectral Density – Channel 52 – UNII Mode – RSS-210 Method



Ref Lvl 15 dBm
Marker 1 [T2] 10.81 dBm
5.32145291 GHz
RBW 1 MHz RF Att 30 dB
VBW 1 MHz
SWT 5 ms Unit dBm



Date: 27.JUL.2004 09:47:13

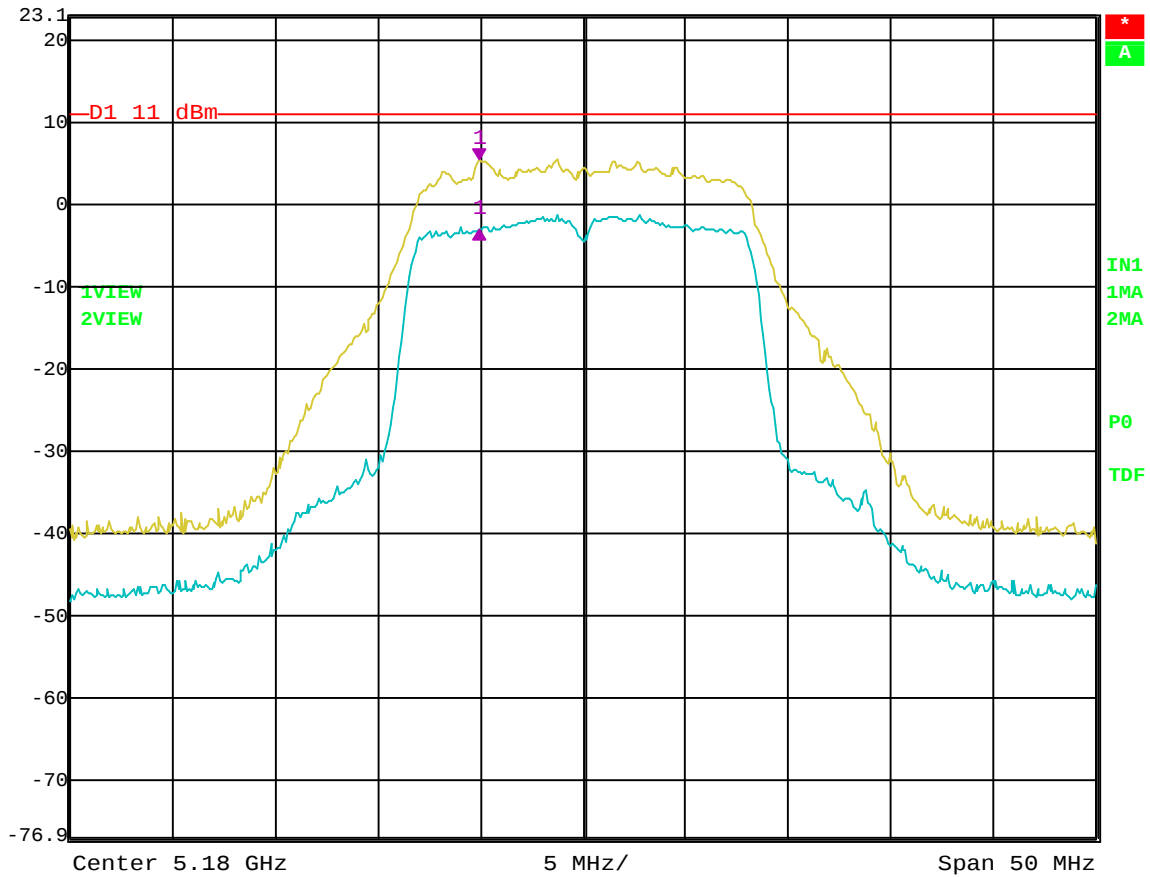
Peak Power Spectral Density – Channel 64 – UNII Mode – RSS-210 Method

PEAK EXCURSION

DATA SHEETS



Ref Lvl 23.1 dBm
Delta 1 [T2] -8.59 dB
0.00000000 Hz
RBW 1 MHz
VBW 30 kHz
SWT 5 ms
RF Att 40 dB
Unit dBm

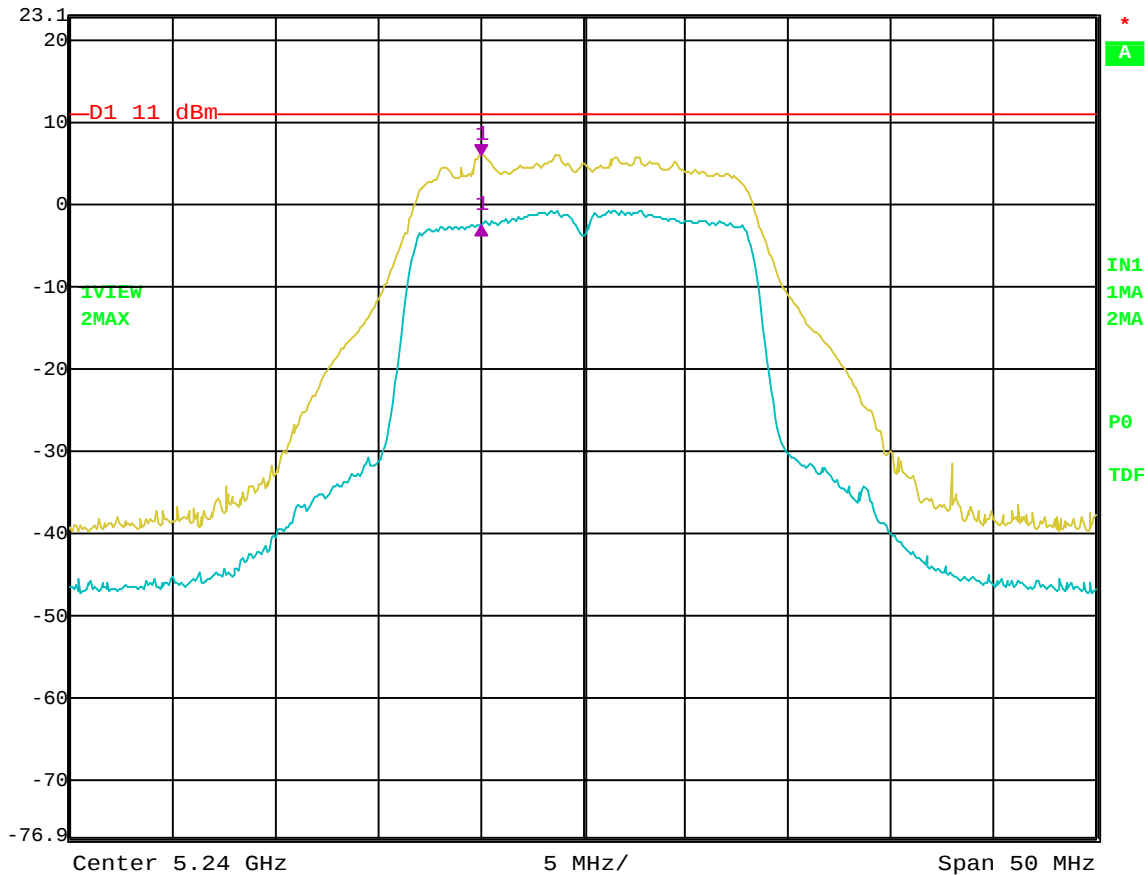


Date: 27.JUL.2004 09:21:35

Peak Excursion – Channel 36 – UNII Mode



Ref Lvl 23.1 dBm Delta 1 [T2] -8.52 dB RBW 1 MHz RF Att 40 dB
0.00000000 Hz VBW 30 kHz Unit dBm
SWT 5 ms

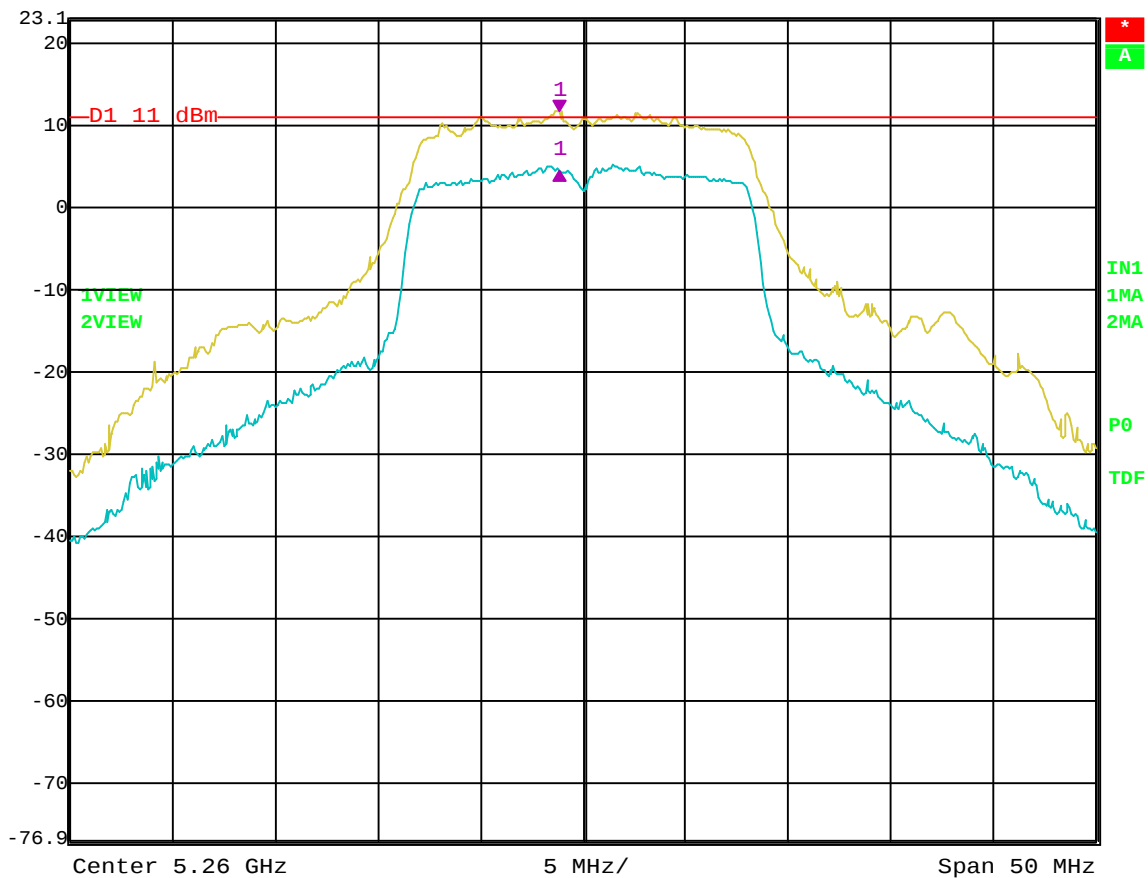


Date: 27.JUL.2004 09:18:53

Peak Excursion – Channel 48 – UNII Mode



Ref Lvl 23.1 dBm
Delta 1 [T2] -7.19 dB
26.15230461 kHz
RBW 1 MHz RF Att 40 dB
VBW 30 kHz
SWT 5 ms Unit dBm

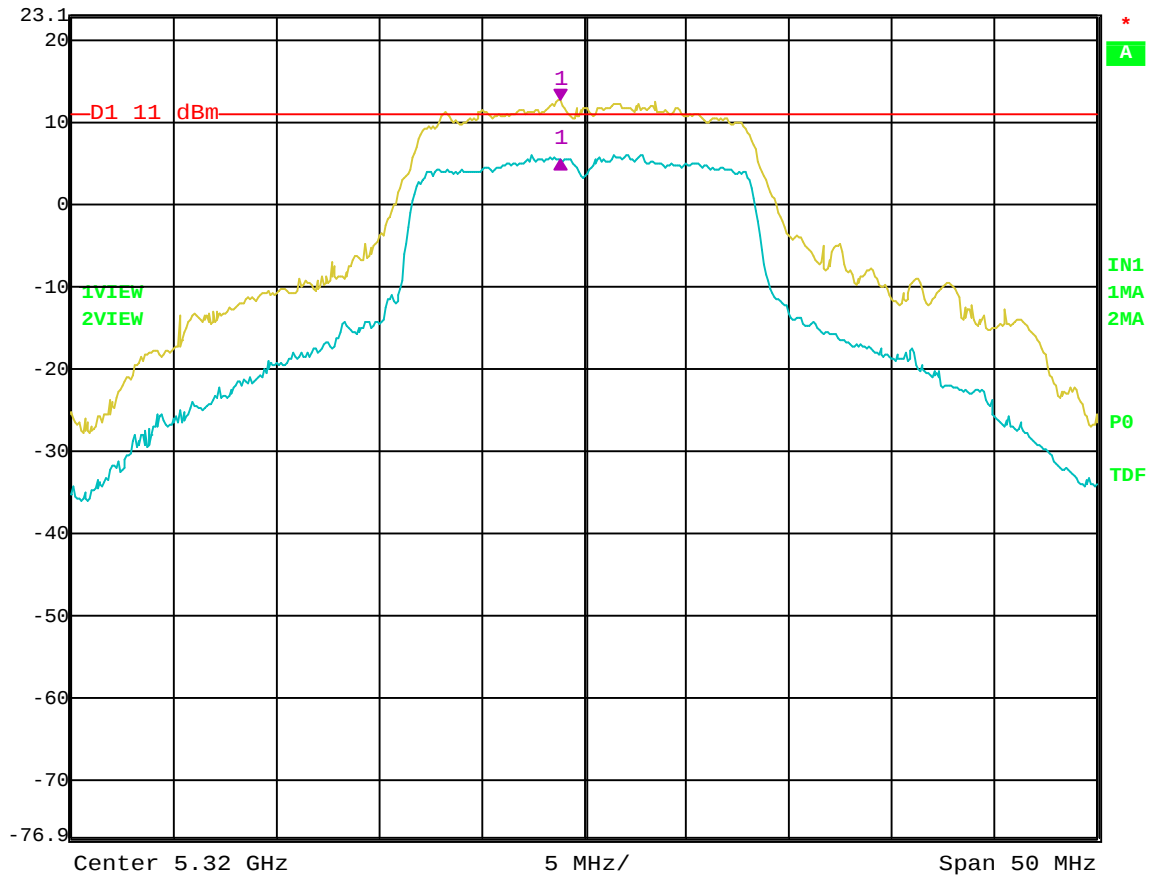


Date: 27.JUL.2004 09:16:43

Peak Excursion – Channel 52 – UNII Mode

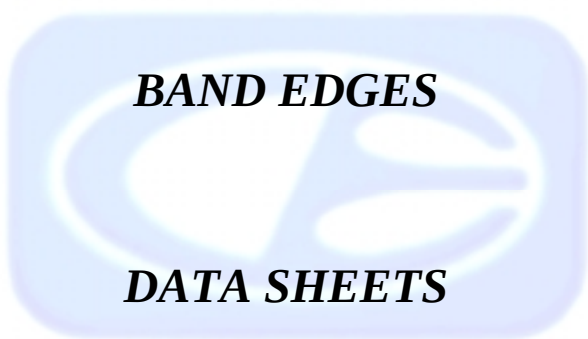


Ref Lvl 23.1 dBm
Delta 1 [T2] -7.10 dB
0.00000000 Hz
RBW 1 MHz RF Att 40 dB
VBW 30 kHz
SWT 5 ms Unit dBm



Date: 27.JUL.2004 09:14:41

Peak Excursion – Channel 64 – UNII Mode



BAND EDGES

DATA SHEETS

FCC Subpart E

Intel Corporation
 Intel Mini PCI Type 802.11ABG Wireless LAN Adapter
 Model: WM3B2915ABG
 Configuration: HP Laptop Agency Series Number: SI1

Date: 07/24/04

Lab: X

Tested By: Kyle Fujimoto

Channel 36 - UNII Mode**Transmit Mode**

Gain : 11.0 (99%) Pk. Pwr.: 16.51 dBm (100%) Pk. Pwr.: 19.95 dBm Avg. Power: 10.08 dBm

Channel 48 - UNII Mode**Transmit Mode**

Gain : 12.5 (99%) Pk. Pwr.: 16.55 dBm (100%) Pk. Pwr.: 19.86 dBm Avg. Power: 10.12 dBm

Channel 52 - UNII Mode**Transmit Mode**

Gain : 18.5 (99%) Pk. Pwr.: 21.2 dBm (100%) Pk. Pwr.: 22.4 dBm Avg. Power: 16.09 dBm

Channel 64 - UNII Mode**Transmit Mode**

Gain : 18.5 (99%) Pk. Pwr.: 21.19 dBm (100%) Pk. Pwr.: 22.21 dBm Avg. Power: 16.28 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5180	100.85	V	--	--	Peak	1.94	180	Fundamental - Channel 36
5180	90.24	V	--	--	Avg	1.94	180	Fundamental - Channel 36
5150	60.95	V	74	-13.05	Peak	1.94	180	Band Edge Channel 36
5150	48.18	V	54	-5.82	Avg	1.94	180	Band Edge Channel 36
5240	102.81	V	--	--	Peak	2.6	180	Fundamental - Channel 48
5240	92.32	V	--	--	Avg	2.6	180	Fundamental - Channel 48
5260	108.04	V	--	--	Peak	2.59	180	Fundamental - Channel 52
5260	97.32	V	--	--	Avg.	2.59	180	Fundamental - Channel 52
5320	105.68	V	--	--	Peak	1.73	180	Fundamental - Channel 64
5320	95.5	V	--	--	Avg	1.73	180	Fundamental - Channel 64
5350	63.18	V	74	-10.82	Peak	1.73	180	Band Edge Channel 64
5350	50.26	V	54	-3.74	Avg	1.73	180	Band Edge Channel 64

FCC Subpart E

Intel Corporation
 Intel Mini PCI Type 802.11ABG Wireless LAN Adapter
 Model: WM3B2915ABG
 Configuration: HP Laptop Agency Series Number: SI1

Date: 07/24/04

Lab: X

Tested By: Kyle Fujimoto

Channel 36 - UNII Mode**Transmit Mode**

Gain : 11.0 (99%) Pk. Pwr.: 16.51 dBm (100%) Pk. Pwr.: 19.95 dBm Avg. Power: 10.08 dBm

Channel 48 - UNII Mode**Transmit Mode**

Gain : 12.5 (99%) Pk. Pwr.: 16.55 dBm (100%) Pk. Pwr.: 19.86 dBm Avg. Power: 10.12 dBm

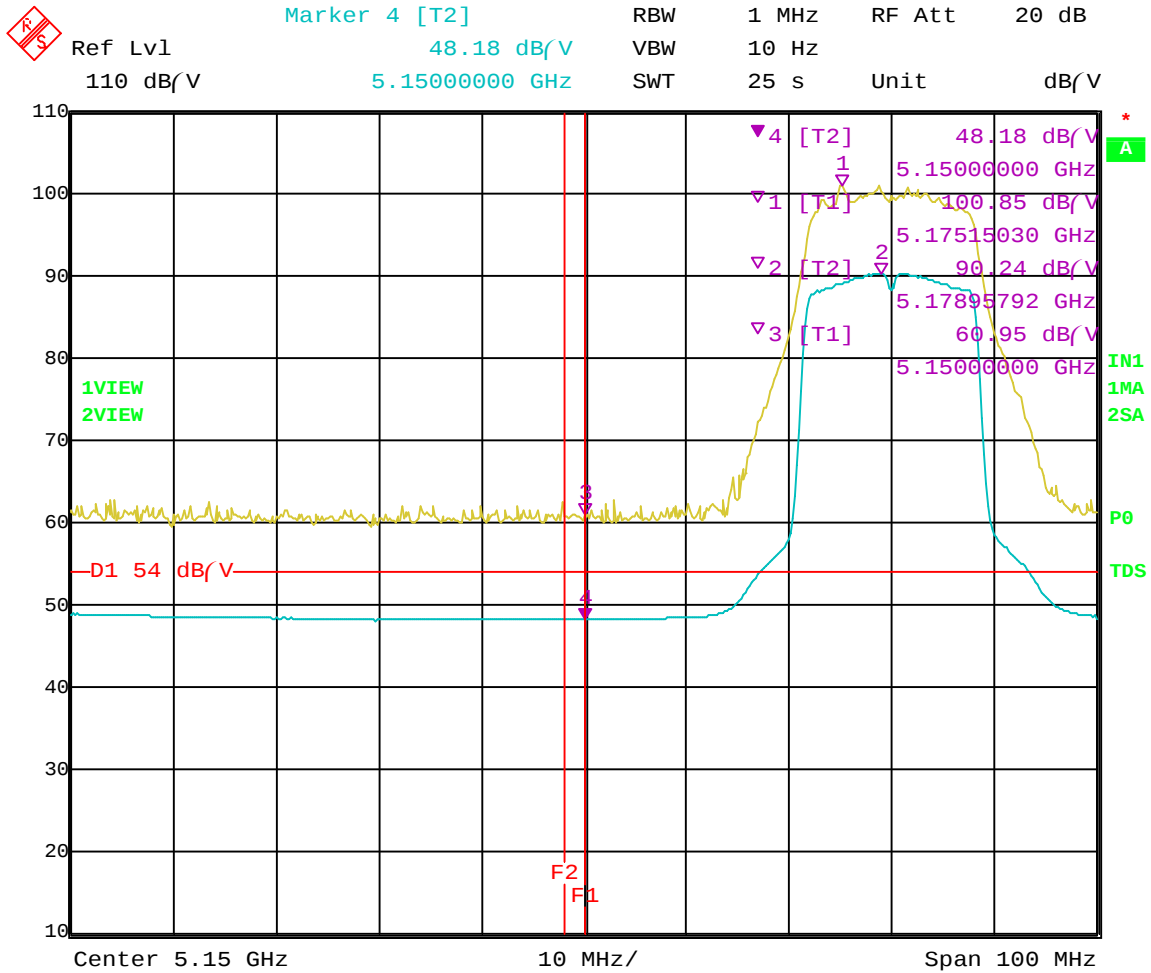
Channel 52 - UNII Mode**Transmit Mode**

Gain : 18.5 (99%) Pk. Pwr.: 21.2 dBm (100%) Pk. Pwr.: 22.4 dBm Avg. Power: 16.09 dBm

Channel 64 - UNII Mode**Transmit Mode**

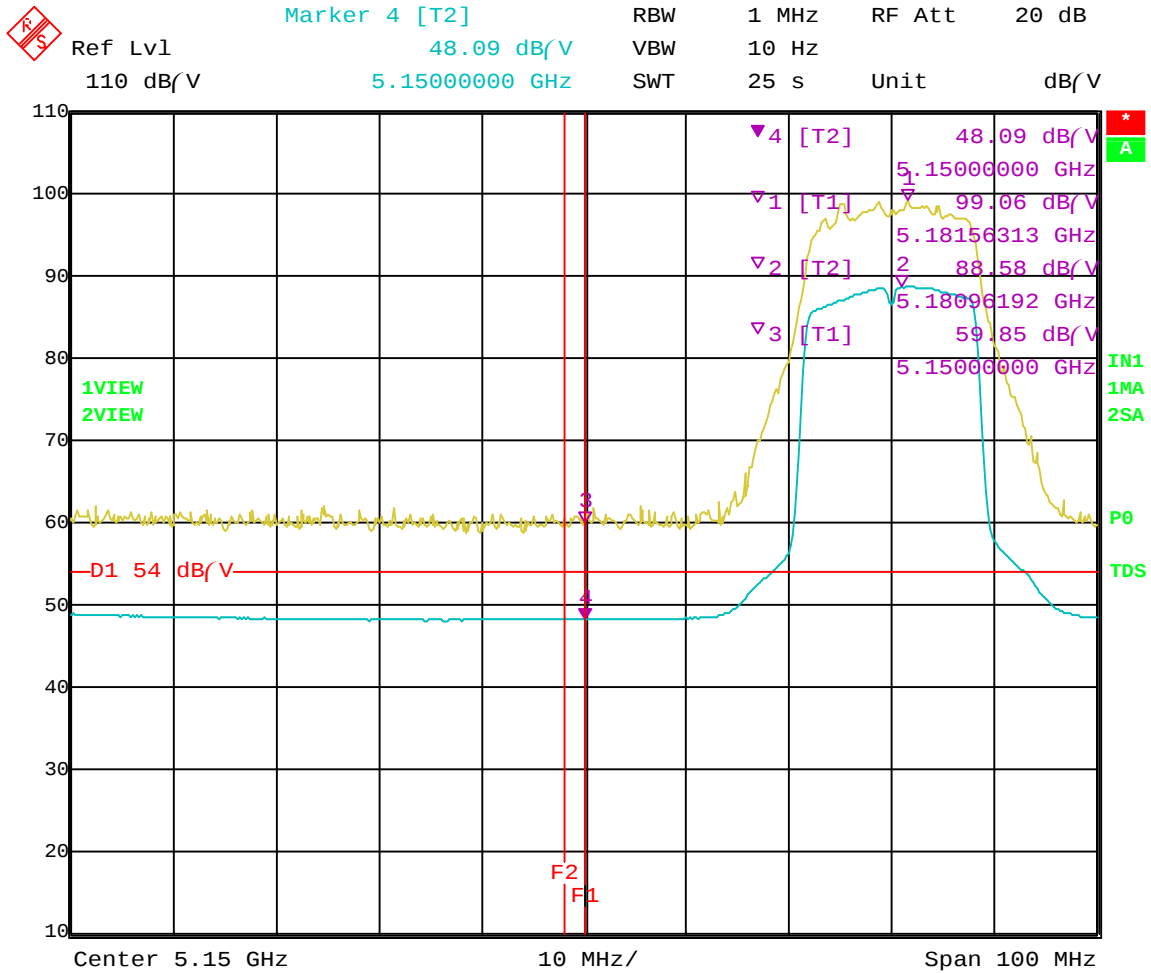
Gain : 18.5 (99%) Pk. Pwr.: 21.19 dBm (100%) Pk. Pwr.: 22.21 dBm Avg. Power: 16.28 dBm

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5180	99.06	H	--	--	Peak	3.19	0	Fundamental - Channel 36
5180	88.58	H	--	--	Avg	3.19	0	Fundamental - Channel 36
5150	59.85	H	74	-14.15	Peak	3.19	0	Band Edge Channel 36
5150	48.09	H	54	-5.91	Avg	3.19	0	Band Edge Channel 36
5240	100.33	H	--	--	Peak	3.42	180	Fundamental - Channel 48
5240	88.88	H	--	--	Avg	3.42	180	Fundamental - Channel 48
5260	104.87	H	--	--	Peak	3.08	180	Fundamental - Channel 52
5260	94.67	H	--	--	Avg.	3.08	180	Fundamental - Channel 52
5320	102.63	H	--	--	Peak	2.8	180	Fundamental - Channel 64
5320	92.2	H	--	--	Avg	2.8	180	Fundamental - Channel 64
5350	62.99	H	74	-11.01	Peak	2.8	180	Band Edge Channel 64
5350	49.3	H	54	-4.7	Avg	2.8	180	Band Edge Channel 64



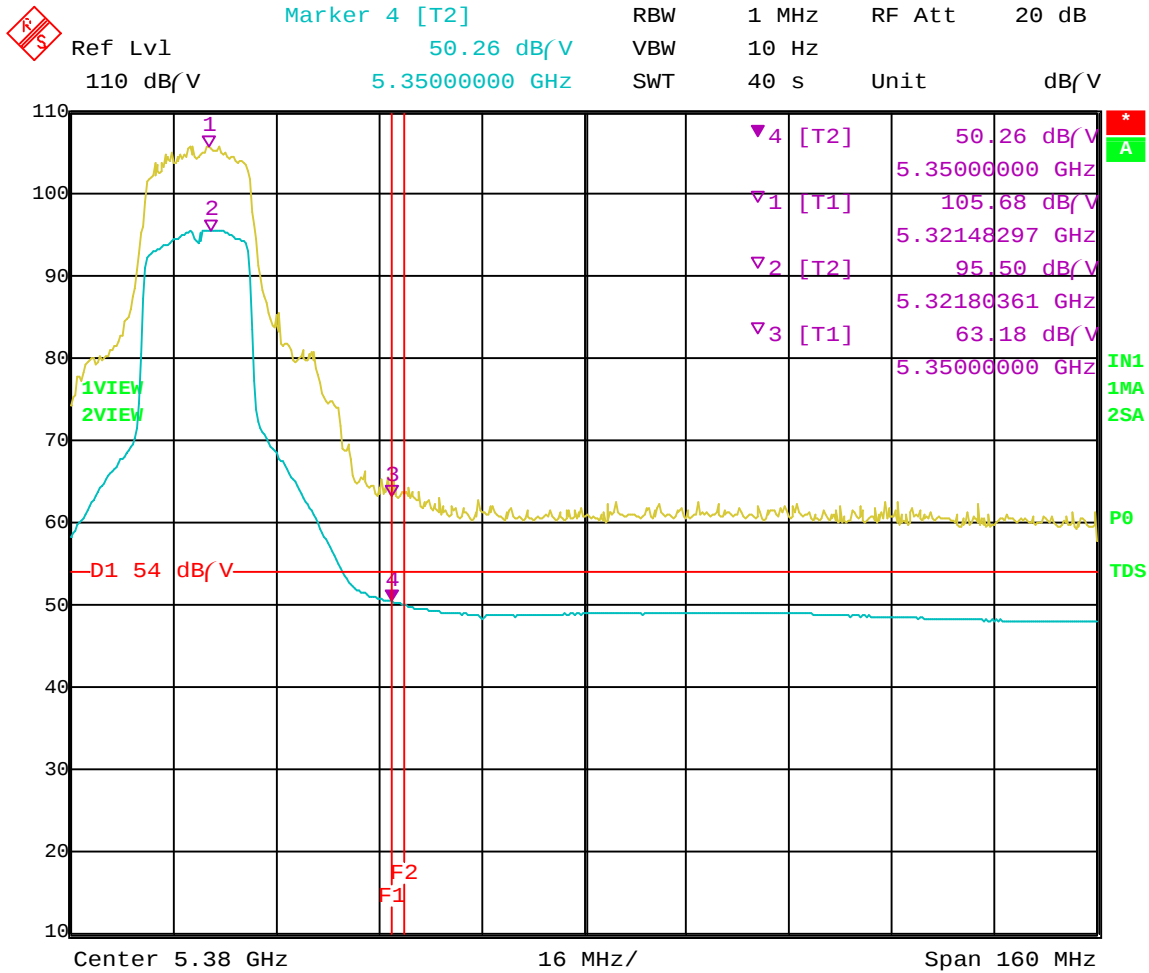
Date: 24.JUL.2004 06:45:01

Band Edge – Channel 36 – Vertical Polarization – UNII Mode



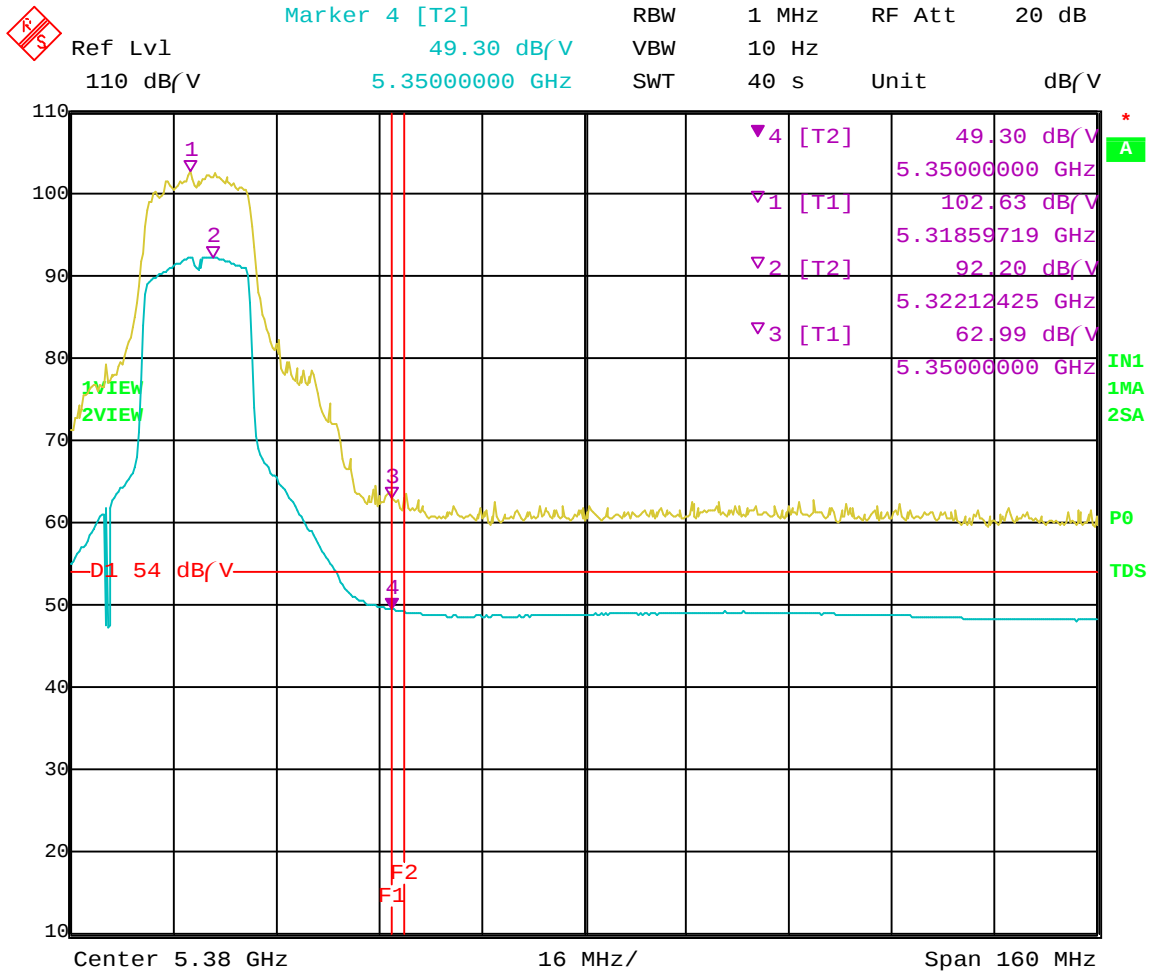
Date: 24.JUL.2004 07:13:54

Band Edge – Channel 36 – Horizontal Polarization – UNII Mode



Date: 24.JUL.2004 06:56:04

Band Edge – Channel 64 – Vertical Polarization – UNII Mode



Date: 24.JUL.2004 07:01:24

Band Edge – Channel 64 – Horizontal Polarization – UNII Mode