

APPENDIX E

DATA SHEETS



RADIATED EMISSIONS

DATA SHEETS for the TRANSMITTER PORTION

FCC 15.247

CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

Tested By: Ben Chavez

Channel 1 - 802.11 b Mode**Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	73.07	V	74	-0.93	Peak	1.5	270	
4824	42.93	V	54	-11.07	Avg	1.5	270	
7236	52.73	V	74	-21.27	Peak	1.5	270	
7236	35.84	V	54	-18.16	Avg	1.5	270	
9648	52.28	V	--	--	Peak	1.5	225	Not in Restricted Band
9648	38.98	V	--	--	Avg	1.5	225	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions Found
12060		V	54	-54	Avg			No Emissions Found
14472	49.36	V	74	-24.64	Peak	1.25	180	
14472	35.76	V	54	-18.24	Avg	1.25	180	
16884		V	--	--	Peak			No Emissions Found
16884		V	--	--	Avg			No Emissions Found
19296		V	74	-74	Peak			No Emissions Found
19296		V	54	-54	Avg			No Emissions Found
21708		V	--	--	Peak			No Emissions Found
21708		V	--	--	Avg			No Emissions Found
24120		V	--	--	Peak			No Emissions Found
24120		V	--	--	Avg			No Emissions Found

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EmulationEngine

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Date: 3/15/04

Lab: B

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Channel 1 - 802.11 b Mode**Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	63.21	H	74	-10.79	Peak	2	180	
4824	37.1	H	54	-16.9	Avg	2	180	
7236	44.41	H	74	-29.59	Peak	1.75	180	
7236	30.45	H	54	-23.55	Avg	1.75	180	
9648	50.33	H	--	--	Peak	1.5	225	Not in Restricted Band
9648	36.38	H	--	--	Avg	1.5	225	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions Found
12060		H	54	-54	Avg			No Emissions Found
14472	49.47	H	74	-24.53	Peak	1.75	180	
14472	35.73	H	54	-18.27	Avg	1.75	180	
16884		H	--	--	Peak			No Emissions Found
16884		H	--	--	Avg			No Emissions Found
19296	44.43	H	74	-29.57	Peak	2	225	
19296	30.77	H	54	-23.23	Avg	2	225	
21708		H	--	--	Peak			No Emissions Found
21708		H	--	--	Avg			No Emissions Found
24120		H	--	--	Peak			No Emissions Found
24120		H	--	--	Avg			No Emissions Found

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CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

Tested By: Ben Chavez

**Channel 6 - 802.11 b Mode
Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	69.35	V	74	-4.65	Peak	1.25	270	
4874	40.13	V	54	-13.87	Avg	1.25	270	
7311	48.2	V	74	-25.8	Peak	1.5	270	
7311	38.23	V	54	-15.77	Avg	1.5	270	
9748	49.27	V	--	--	Peak	1.75	225	Not in Restricted Band
9748	34.98	V	--	--	Avg	1.75	225	Not in Restricted Band
12185	52.66	V	74	-21.34	Peak	1.75	180	
12185	38.34	V	54	-15.66	Avg	1.75	180	
14622	48.01	V	--	--	Peak	1.75	180	Not in Restricted Band
14622	34.47	V	--	--	Avg	1.75	180	Not in Restricted Band
17059		V	--	--	Peak			No Emissions Found
17059		V	--	--	Avg			No Emissions Found
19496		V	74	-74	Peak			No Emissions Found
19496		V	54	-54	Avg			No Emissions Found
21933		V	--	--	Peak			No Emissions Found
21933		V	--	--	Avg			No Emissions Found
22001		V	74	-74	Peak			No Emissions Found
22001		V	54	-54	Avg			No Emissions Found
24370		V	--	--	Peak			No Emissions Found
24370		V	--	--	Avg			No Emissions Found

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EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

Tested By: Ben Chavez

Channel 6 - 802.11 b Mode**Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	59	H	74	-15	Peak	1.25	135	
4874	34.76	H	54	-19.24	Avg	1.25	135	
7311	47.02	H	74	-26.98	Peak	1.5	180	
7311	32.03	H	54	-21.97	Avg	1.5	180	
9748	47.45	H	--	--	Peak	1.75	180	Not in Restricted Band
9748	32.88	H	--	--	Avg	1.75	180	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions Found
12185		H	54	-54	Avg			No Emissions Found
14622	49.69	H	--	--	Peak	1.5	180	Not in Restricted Band
14622	34.49	H	--	--	Avg	1.5	180	Not in Restricted Band
17059		H	--	--	Peak			No Emissions Found
17059		H	--	--	Avg			No Emissions Found
19496		H	74	-74	Peak			No Emissions Found
19496		H	54	-54	Avg			No Emissions Found
21933		H	--	--	Peak			No Emissions Found
21933		H	--	--	Avg			No Emissions Found
22001		H	74	-74	Peak			No Emissions Found
22001		H	54	-54	Avg			No Emissions Found
24370		H	--	--	Peak			No Emissions Found
24370		H	--	--	Avg			No Emissions Found

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CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

Tested By: Ben Chavez

**Channel 11 - 802.11 b Mode
Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	69.7	V	74	-4.3	Peak	1.5	270	
4924	40.35	V	54	-13.65	Avg	1.5	270	
7386	45.94	V	74	-28.06	Peak	1.75	180	
7386	31.65	V	54	-22.35	Avg	1.75	180	
9848	49.46	V	--	--	Peak	1.75	225	Not in Restricted Band
9848	34.86	V	--	--	Avg	1.75	225	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions Found
12310		V	54	-54	Avg			No Emissions Found
14772	47.38	V	--	--	Peak	1.75	180	Not in Restricted Band
14772	33.57	V	--	--	Avg	1.75	180	Not in Restricted Band
17234		V	--	--	Peak			No Emissions Found
17234		V	--	--	Avg			No Emissions Found
19696		V	74	-74	Peak			No Emissions Found
19696		V	54	-54	Avg			No Emissions Found
22158		V	74	-74	Peak			No Emissions Found
22158		V	54	-54	Avg			No Emissions Found
24620		V	--	--	Peak			No Emissions Found
24620		V	--	--	Avg			No Emissions Found

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EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

Tested By: Ben Chavez

**Channel 11 - 802.11 b Mode
Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	58.45	H	74	-15.55	Peak	2	270	
4924	33.56	H	54	-20.44	Avg	2	270	
7386	44.01	H	74	-29.99	Peak	1.75	225	
7386	30.15	H	54	-23.85	Avg	1.75	225	
9848	48.13	H	--	--	Peak	2	315	Not in Restricted Band
9848	34.32	H	--	--	Avg	2	315	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions Found
12310		H	54	-54	Avg			No Emissions Found
14772	47.51	H	--	--	Peak	1.5	180	Not in Restricted Band
14772	33.7	H	--	--	Avg	1.5	180	Not in Restricted Band
17234		H	--	--	Peak			No Emissions Found
17234		H	--	--	Avg			No Emissions Found
19696		H	74	-74	Peak			No Emissions Found
19696		H	54	-54	Avg			No Emissions Found
22158		H	74	-74	Peak			No Emissions Found
22158		H	54	-54	Avg			No Emissions Found
24620		H	--	--	Peak			No Emissions Found
24620		H	--	--	Avg			No Emissions Found

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EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

Tested By: Ben Chavez

Channel 1 - 802.11 g Mode**Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	69.02	V	74	-4.98	Peak	1.75	270	
4824	38.25	V	54	-15.75	Avg	1.75	270	
7236	46.44	V	74	-27.56	Peak	1.75	135	
7236	29.76	V	54	-24.24	Avg	1.75	135	
9648	46.93	V	--	--	Peak	1.5	180	Not in Restricted Band
9648	32.89	V	--	--	Avg	1.5	180	Not in Restricted Band
12060		V	74	-74	Peak			No Emissions Found
12060		V	54	-54	Avg			No Emissions Found
14472		V	74	-74	Peak			No Emissions Found
14472		V	54	-54	Avg			No Emissions Found
16884		V	--	--	Peak			No Emissions Found
16884		V	--	--	Avg			No Emissions Found
19296		V	74	-74	Peak			No Emissions Found
19296		V	54	-54	Avg			No Emissions Found
21708		V	--	--	Peak			No Emissions Found
21708		V	--	--	Avg			No Emissions Found
24120		V	--	--	Peak			No Emissions Found
24120		V	--	--	Avg			No Emissions Found

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CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

Tested By: Ben Chavez

Channel 1 - 802.11 g Mode**Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4824	54.8	H	74	-19.2	Peak	2.25	180	
4824	31.6	H	54	-22.4	Avg	2.25	180	
7236	43.52	H	74	-30.48	Peak	1.75	225	
7236	29.83	H	54	-24.17	Avg	1.75	225	
9648	47.11	H	--	--	Peak	1.75	180	Not in Restricted Band
9648	32.88	H	--	--	Avg	1.75	180	Not in Restricted Band
12060		H	74	-74	Peak			No Emissions Found
12060		H	54	-54	Avg			No Emissions Found
14472		H	74	-74	Peak			No Emissions Found
14472		H	54	-54	Avg			No Emissions Found
16884		H	--	--	Peak			No Emissions Found
16884		H	--	--	Avg			No Emissions Found
19296		H	74	-74	Peak			No Emissions Found
19296		H	54	-54	Avg			No Emissions Found
21708		H	--	--	Peak			No Emissions Found
21708		H	--	--	Avg			No Emissions Found
24120		H	--	--	Peak			No Emissions Found
24120		H	--	--	Avg			No Emissions Found

FCC 15.247

CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

Tested By: Ben Chavez

Channel 6 - 802.11 g Mode**Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	60.71	V	74	-13.29	Peak	1.75	270	
4874	31.99	V	54	-22.01	Avg	1.75	270	
7311	44.66	V	74	-29.34	Peak	1.75	225	
7311	31.19	V	54	-22.81	Avg	1.75	225	
9748	44.06	V	--	--	Peak	1.5	180	Not in Restricted Band
9748	31.01	V	--	--	Avg	1.5	180	Not in Restricted Band
12185		V	74	-74	Peak			No Emissions Found
12185		V	54	-54	Avg			No Emissions Found
14622		V	--	--	Peak			No Emissions Found
14622		V	--	--	Avg			No Emissions Found
17059		V	--	--	Peak			No Emissions Found
17059		V	--	--	Avg			No Emissions Found
19496		V	74	-74	Peak			No Emissions Found
19496		V	54	-54	Avg			No Emissions Found
21933		V	--	--	Peak			No Emissions Found
21933		V	--	--	Avg			No Emissions Found
22001		V	74	-74	Peak			No Emissions Found
22001		V	54	-54	Avg			No Emissions Found
24370		V	--	--	Peak			No Emissions Found
24370		V	--	--	Avg			No Emissions Found

FCC 15.247

CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

Tested By: Ben Chavez

Channel 6 - 802.11 g Mode**Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4874	47.04	H	74	-26.96	Peak	1.25	225	
4874	30.29	H	54	-23.71	Avg	1.25	225	
7311	44.09	H	74	-29.91	Peak	1.5	225	
7311	31.05	H	54	-22.95	Avg	1.5	225	
9748	47.23	H	--	--	Peak	1.5	180	Not in Restricted Band
9748	33.47	H	--	--	Avg	1.5	180	Not in Restricted Band
12185		H	74	-74	Peak			No Emissions Found
12185		H	54	-54	Avg			No Emissions Found
14622		H	--	--	Peak			No Emissions Found
14622		H	--	--	Avg			No Emissions Found
17059		H	--	--	Peak			No Emissions Found
17059		H	--	--	Avg			No Emissions Found
19496		H	74	-74	Peak			No Emissions Found
19496		H	54	-54	Avg			No Emissions Found
21933		H	--	--	Peak			No Emissions Found
21933		H	--	--	Avg			No Emissions Found
22001		H	74	-74	Peak			No Emissions Found
22001		H	54	-54	Avg			No Emissions Found
24370		H	--	--	Peak			No Emissions Found
24370		H	--	--	Avg			No Emissions Found

FCC 15.247

CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

Tested By: Ben Chavez

Channel 11 - 802.11 g Mode**Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	55.47	V	74	-18.53	Peak	2	45	
4924	33.82	V	54	-20.18	Avg	2	45	
7386	43.52	V	74	-30.48	Peak	1.75	225	
7386	30.09	V	54	-23.91	Avg	1.75	225	
9848	46.29	V	--	--	Peak	1.45	180	Not in Restricted Band
9848	33.06	V	--	--	Avg	1.75	180	Not in Restricted Band
12310		V	74	-74	Peak			No Emissions Found
12310		V	54	-54	Avg			No Emissions Found
14772		V	--	--	Peak			No Emissions Found
14772		V	--	--	Avg			No Emissions Found
17234		V	--	--	Peak			No Emissions Found
17234		V	--	--	Avg			No Emissions Found
19696		V	74	-74	Peak			No Emissions Found
19696		V	54	-54	Avg			No Emissions Found
22158		V	74	-74	Peak			No Emissions Found
22158		V	54	-54	Avg			No Emissions Found
24620		V	--	--	Peak			No Emissions Found
24620		V	--	--	Avg			No Emissions Found

FCC 15.247

CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

Tested By: Ben Chavez

Channel 11 - 802.11 g Mode**Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4924	50.41	H	74	-23.59	Peak	2	45	
4924	32.99	H	54	-21.01	Avg	2	45	
7386	43.57	H	74	-30.43	Peak	1.75	270	
7386	30.29	H	54	-23.71	Avg	1.75	270	
9848	46.99	H	--	--	Peak	1.75	225	Not in Restricted Band
9848	33.12	H	--	--	Avg	1.75	225	Not in Restricted Band
12310		H	74	-74	Peak			No Emissions Found
12310		H	54	-54	Avg			No Emissions Found
14772		H	--	--	Peak			No Emissions Found
14772		H	--	--	Avg			No Emissions Found
17234		H	--	--	Peak			No Emissions Found
17234		H	--	--	Avg			No Emissions Found
19696		H	74	-74	Peak			No Emissions Found
19696		H	54	-54	Avg			No Emissions Found
22158		H	74	-74	Peak			No Emissions Found
22158		H	54	-54	Avg			No Emissions Found
24620		H	--	--	Peak			No Emissions Found
24620		H	--	--	Avg			No Emissions Found

CMC
EmulationEngine
Model: RCX-EE11ABG3

Date: 3/16/04
Lab: B
Tested By: Ben Chavez

Channel 149 - 802.11 a Mode Transmit Mode

[illegible]

CMC
EmulationEngine
Model: RCX-EE11ABG3

Date: 3/16/04
Lab: B
Tested By: Ben Chavez

[illegible]

CMC
EmulationEngine
Model: RCX-EE11ABG3

Date: 3/16/04
Lab: B
Tested By: Ben Chavez

Channel 157 - 802.11 a Mode Transmit Mode

[illegible]

CMC
EmulationEngine
Model: RCX-EE11ABG3

Date: 3/16/04
Lab: B
Tested By: Ben Chavez

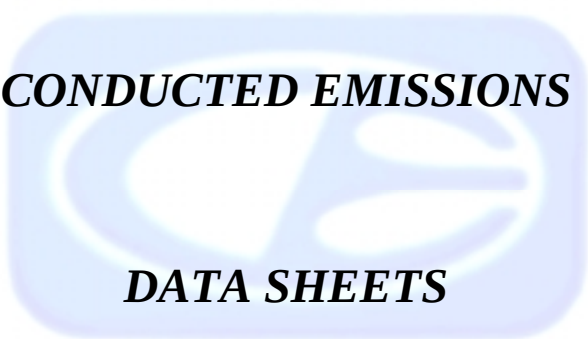
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CMC
EmulationEngine
Model: RCX-EE11ABG3

Date: 3/16/04
Lab: B
Tested By: Ben Chavez

Channel 165 - 802.11 a Mode Transmit Mode

[illegible]

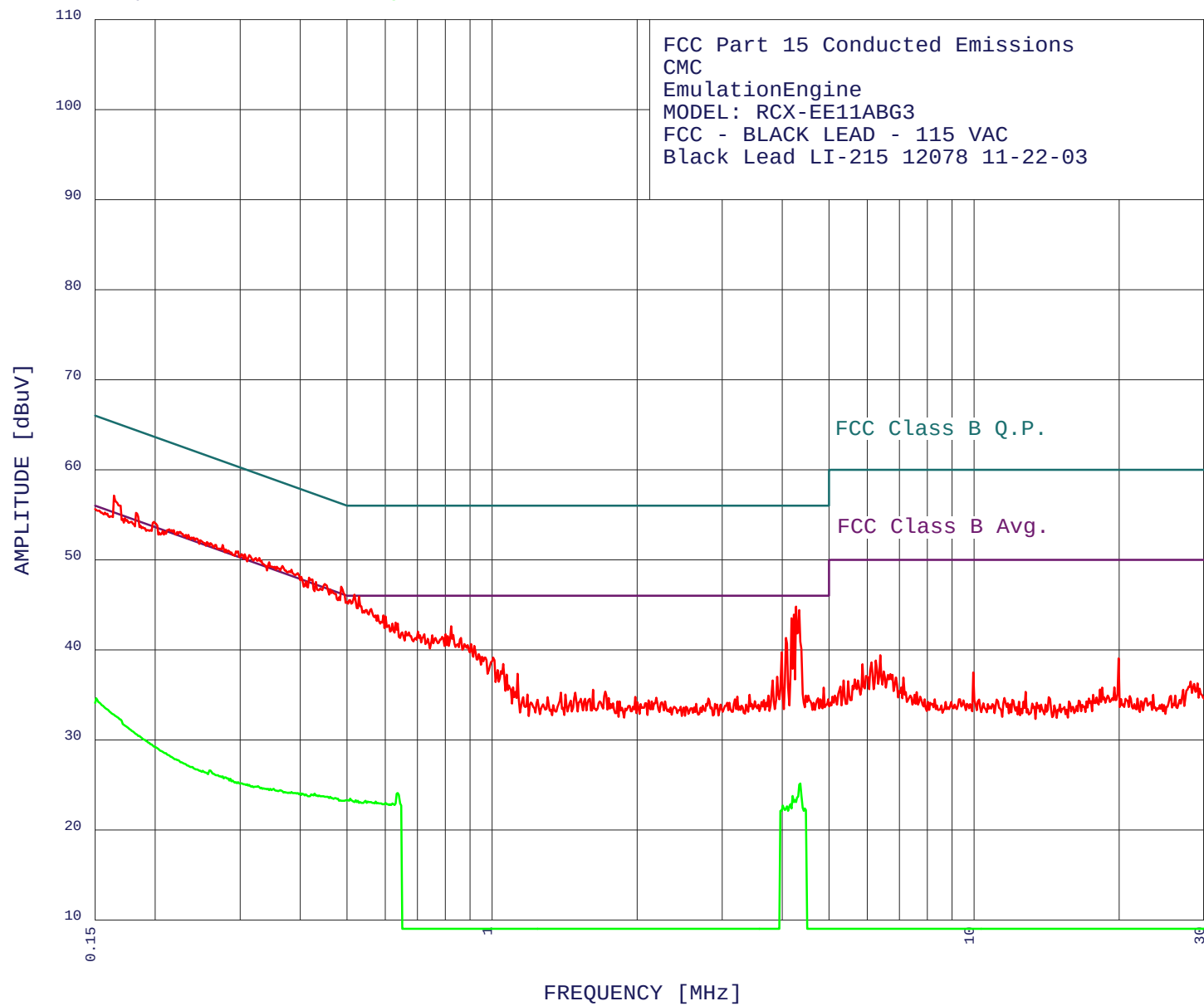


CONDUCTED EMISSIONS

DATA SHEETS

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

3/26/2004 16:23:56





3/26/2004

16:23:56

FCC - Part 15 Conducted Emissions

CMC

EmulationEngine

MODEL: RCX-EE11ABG3

FCC - BLACK LEAD - 115 VAC

Black Lead LI-215 12078 11-22-03

TEST ENGINEER : MICHAEL CHRISTENSEN

45 highest peaks above -50.00 dB of FCC Class B Avg. limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.164	57.12	55.25	1.87**
2	0.183	55.21	54.37	0.84**
3	0.486	47.01	46.23	0.78**
4	0.417	48.01	47.50	0.51**
5	0.431	47.51	47.24	0.27**
6	0.518	46.11	46.00	0.11**
7	0.530	45.91	46.00	-0.09**
8	4.272	44.81	46.00	-1.19**
9	4.339	44.41	46.00	-1.59**
10	4.227	43.91	46.00	-2.09**
11	0.601	43.72	46.00	-2.28**
12	4.182	43.51	46.00	-2.49**
13	0.631	43.02	46.00	-2.98**
14	0.822	42.62	46.00	-3.38
15	0.701	42.02	46.00	-3.98
16	0.662	42.02	46.00	-3.98
17	0.801	41.72	46.00	-4.28
18	0.751	41.62	46.00	-4.38
19	0.809	41.52	46.00	-4.48
20	0.862	41.32	46.00	-4.68
21	4.071	41.31	46.00	-4.69**
22	0.919	40.43	46.00	-5.57
23	3.987	39.71	46.00	-6.29**
24	1.006	39.13	46.00	-6.87
25	1.055	38.43	46.00	-7.57
26	1.027	37.73	46.00	-8.27
27	1.130	37.33	46.00	-8.67
28	1.072	37.23	46.00	-8.77
29	3.903	37.01	46.00	-8.99
30	3.820	36.61	46.00	-9.39
31	1.106	35.83	46.00	-10.17
32	4.877	35.81	46.00	-10.19
33	1.620	35.55	46.00	-10.45
34	6.390	39.41	50.00	-10.59
35	1.717	35.35	46.00	-10.65
36	1.488	35.25	46.00	-10.75
37	1.389	35.24	46.00	-10.76
38	1.419	35.04	46.00	-10.96
39	1.184	35.04	46.00	-10.96
40	19.950	39.03	50.00	-10.97
41	3.419	35.01	46.00	-10.99
42	4.528	34.91	46.00	-11.09
43	3.741	34.91	46.00	-11.09
44	6.254	38.81	50.00	-11.19
45	3.226	34.80	46.00	-11.20


**COMPATIBLE
ELECTRONICS**

3/26/2004

16:23:56

FCC Part 15 Conducted Emissions

CMC

EmulationEngine

MODEL: RCX-EE11ABG3

FCC - BLACK LEAD - 115 VAC

Black Lead LI-215 12078 11-22-03

TEST ENGINEER : MICHAEL CHRISTENSEN

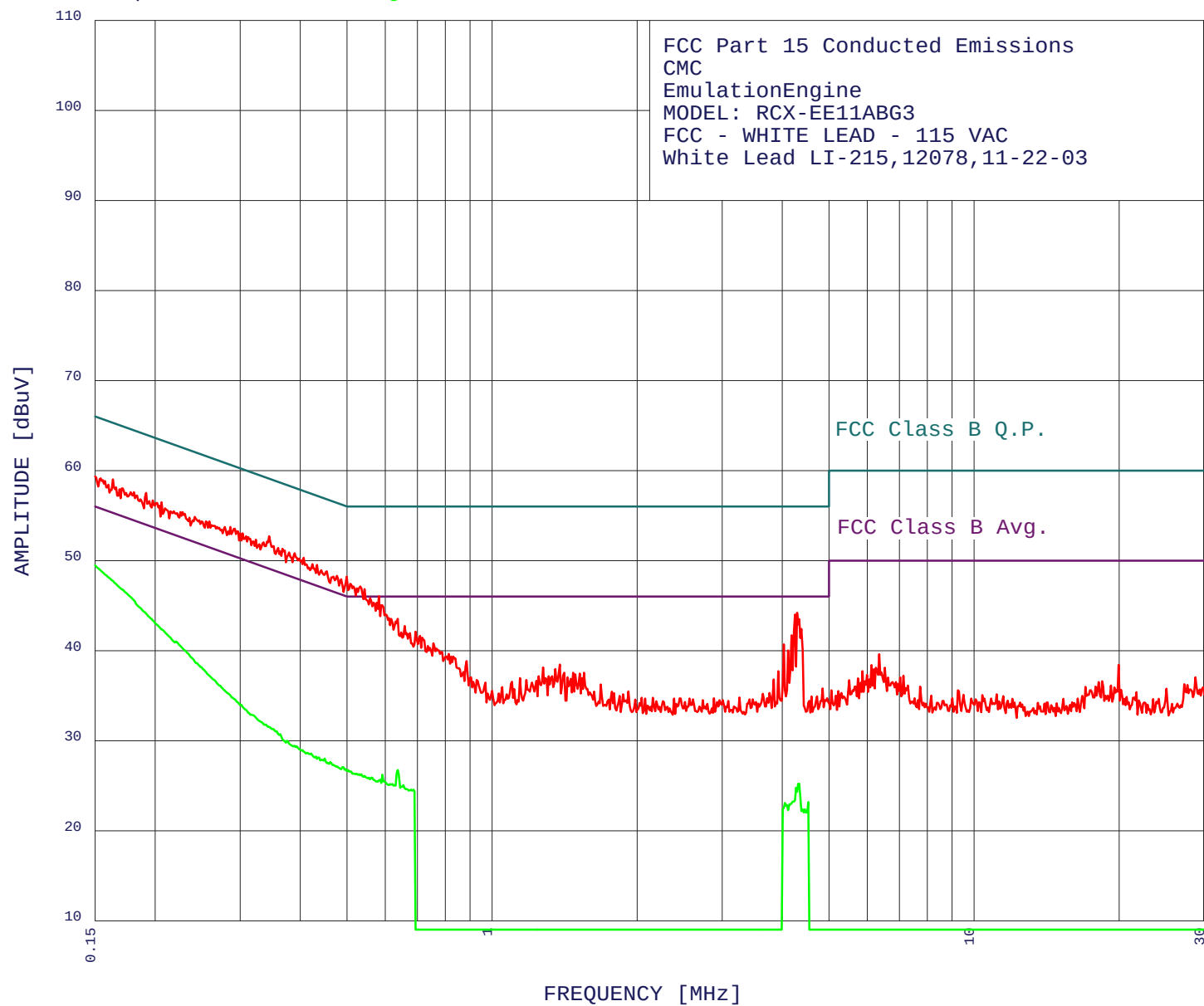
35 highest peaks above -50.00 dB of FCC Class B Avg. limit line

Peak criteria : 0.10 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	4.361	25.16	46.00	-20.84
2	0.151	34.62	55.95	-21.33
3	0.637	24.09	46.00	-21.91
4	4.204	23.77	46.00	-22.23
5	0.508	23.45	46.00	-22.55
6	4.249	23.32	46.00	-22.68
7	0.521	23.30	46.00	-22.70
8	0.547	23.22	46.00	-22.78
9	0.527	23.22	46.00	-22.78
10	0.573	23.15	46.00	-22.85
11	0.552	23.15	46.00	-22.85
12	0.461	23.67	46.67	-23.00
13	0.601	23.00	46.00	-23.00
14	0.621	22.93	46.00	-23.07
15	4.159	22.86	46.00	-23.14
16	0.428	24.02	47.28	-23.26
17	4.008	22.70	46.00	-23.30
18	4.092	22.61	46.00	-23.39
19	0.421	23.95	47.42	-23.47
20	4.456	22.37	46.00	-23.63
21	0.411	23.95	47.63	-23.69
22	0.404	24.02	47.77	-23.75
23	0.400	24.08	47.86	-23.78
24	0.383	24.22	48.21	-23.99
25	0.363	24.42	48.65	-24.23
26	0.352	24.55	48.91	-24.36
27	0.347	24.55	49.04	-24.50
28	0.327	24.87	49.53	-24.66
29	0.259	26.61	51.47	-24.86
30	0.286	25.66	50.63	-24.96
31	0.276	25.95	50.94	-24.98
32	0.279	25.84	50.85	-25.01
33	0.297	25.31	50.32	-25.02
34	0.290	25.48	50.54	-25.06
35	0.251	26.56	51.73	-25.16

EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average

3/26/2004 16:38:50





3/26/2004

16:38:50

FCC Part 15 Conducted Emissions

CMC

EmulationEngine

MODEL: RCX-EE11ABG3

FCC - WHITE LEAD - 115 VAC

White Lead LI-215,12078,11-22-03

TEST ENGINEER : MICHAEL CHRISTENSEN

45 highest peaks above -50.00 dB of FCC Class B Avg. limit line

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.163	59.02	55.29	3.73**
2	0.345	52.71	49.09	3.62**
3	0.192	57.50	53.97	3.53**
4	0.206	56.49	53.35	3.13**
5	0.170	58.02	54.94	3.07**
6	0.389	50.81	48.08	2.74**
7	0.379	50.91	48.29	2.62**
8	0.500	48.22	46.01	2.21**
9	0.532	47.12	46.00	1.12**
10	0.544	46.82	46.00	0.82**
11	0.583	46.02	46.00	0.02**
12	0.592	45.02	46.00	-0.98**
13	4.294	44.20	46.00	-1.80**
14	4.249	44.00	46.00	-2.00**
15	0.637	43.52	46.00	-2.48**
16	0.658	42.72	46.00	-3.28**
17	4.384	42.40	46.00	-3.60**
18	0.694	42.12	46.00	-3.88
19	4.182	41.70	46.00	-4.30**
20	0.716	41.42	46.00	-4.58
21	0.755	40.82	46.00	-5.18
22	4.029	40.70	46.00	-5.30**
23	4.114	40.00	46.00	-6.00**
24	0.885	38.83	46.00	-7.17
25	1.382	38.44	46.00	-7.56
26	1.276	38.14	46.00	-7.86
27	1.352	37.94	46.00	-8.06
28	3.924	37.70	46.00	-8.30
29	1.552	37.55	46.00	-8.45
30	1.472	37.55	46.00	-8.45
31	1.412	37.54	46.00	-8.46
32	1.520	37.45	46.00	-8.55
33	1.488	37.35	46.00	-8.65
34	1.331	37.14	46.00	-8.86
35	1.434	37.05	46.00	-8.95
36	1.536	36.95	46.00	-9.05
37	1.142	36.94	46.00	-9.06
38	3.841	36.80	46.00	-9.20
39	1.178	36.74	46.00	-9.26
40	0.929	36.73	46.00	-9.27
41	1.236	36.64	46.00	-9.36
42	1.100	36.53	46.00	-9.47
43	0.969	36.43	46.00	-9.57
44	1.680	36.25	46.00	-9.75
45	1.049	35.93	46.00	-10.07


**COMPATIBLE
ELECTRONICS**

3/26/2004

16:38:50

FCC Part 15 Conducted Emissions

CMC

EmulationEngine

MODEL: RCX-EE11ABG3

FCC - WHITE LEAD - 115 VAC

White Lead LI-215,12078,11-22-03

TEST ENGINEER : MICHAEL CHRISTENSEN

23 highest peaks above -50.00 dB of FCC Class B Avg. limit line

Peak criteria : 0.10 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.221	41.01	52.78	-11.78
2	0.375	29.97	48.38	-18.41
3	0.449	27.99	46.89	-18.89
4	0.438	28.12	47.11	-18.98
5	0.461	27.63	46.67	-19.03
6	0.489	27.08	46.18	-19.11
7	0.637	26.73	46.00	-19.27
8	0.502	26.73	46.00	-19.27
9	0.535	26.26	46.00	-19.74
10	0.592	26.21	46.00	-19.79
11	0.544	26.10	46.00	-19.90
12	0.564	25.88	46.00	-20.12
13	0.586	25.66	46.00	-20.34
14	4.339	25.21	46.00	-20.79
15	0.621	25.19	46.00	-20.81
16	0.655	25.07	46.00	-20.93
17	4.272	24.77	46.00	-21.23
18	0.686	24.56	46.00	-21.44
19	0.679	24.56	46.00	-21.44
20	4.528	23.16	46.00	-22.84
21	4.050	23.08	46.00	-22.92
22	4.456	22.36	46.00	-23.64
23	4.408	22.36	46.00	-23.64



RADIATED EMISSIONS

DATA SHEETS for the DIGITAL PORTION

Test Location	: Compatible Electronics	Page	: 1/2
Customer	: CMC	Date	: 3/26/2004
Manufacturer	: CMC	Time	: 7:56:51
Eut name	: EmulationEngine	Lab	: D
Model	: RCX-EE11ABG3	Test Distance	: 10.0 Meters
Serial #	: N/A		
Specification	: FCC Class A		
Distance correction factor (20 * log(test/spec))			: 0.00
Test Mode	: TEST RANGE 30 - 1000 MHz		
	VERTICAL AND HORIZONTAL POLARIZATIONS - Unintentional Radiator		

TESTED BY: MICHAEL CHRISTENSEN

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
1V	192.096	57.90	2.04	14.67	37.57	37.04	43.50	-6.46
2V	192.096	57.90	2.04	14.67	37.57	37.04	43.50	-6.46
3V	192.096	57.90	2.04	14.67	37.57	37.04	43.50	-6.46
4V	192.096	57.90	2.04	14.67	37.57	37.04	43.50	-6.46
5V	192.096Qp	57.78	2.04	14.67	37.57	36.92	43.50	-6.58
6V	128.099	56.30	1.64	11.53	37.76	31.71	43.50	-11.79
7H	192.101	58.70	2.04	14.67	37.57	37.84	43.50	-5.66
8H	200.091	60.30	2.10	14.90	37.60	39.70	43.50	-3.80
9H	160.096	60.00	1.90	13.90	37.50	38.30	43.50	-5.20
10H	256.101	46.10	2.40	17.01	37.53	27.98	46.40	-18.42
11H	128.107	52.40	1.64	11.53	37.76	27.81	43.50	-15.69
12H	120.112	52.80	1.58	9.93	37.75	26.57	43.50	-16.93
13H	150.112	62.70	1.90	13.01	37.50	40.11	43.50	-3.39
14H	250.097	60.80	2.40	16.61	37.50	42.31	46.40	-4.09
15H	150.049	59.20	1.90	13.00	37.50	36.60	43.50	-6.90
16H	150.050Qp	58.92	1.90	13.00	37.50	36.32	43.50	-7.18
17H	125.066	56.70	1.60	11.40	37.80	31.90	43.50	-11.60
18H	140.072	54.60	1.79	12.01	37.61	30.78	43.50	-12.72
19H	225.072	49.80	2.20	15.80	37.60	30.20	46.40	-16.20
20H	275.095	57.50	2.40	18.23	37.60	40.53	46.40	-5.87
21H	45.824	59.70	1.00	12.82	37.62	35.90	39.10	-3.20
22V	150.108	59.00	1.90	13.01	37.50	36.41	43.50	-7.09
23V	150.049	57.40	1.90	13.00	37.50	34.80	43.50	-8.70
24V	150.050Qp	56.24	1.90	13.00	37.50	33.64	43.50	-9.86
25V	160.062	52.50	1.90	13.90	37.50	30.80	43.50	-12.70
26V	250.100	55.90	2.40	16.61	37.50	37.41	46.40	-8.99
27V	200.060	50.60	2.10	14.90	37.60	30.00	43.50	-13.50
28V	125.112	57.40	1.60	11.40	37.80	32.61	43.50	-10.89
29V	225.066	51.30	2.20	15.80	37.60	31.70	46.40	-14.70
30V	275.069	51.30	2.40	18.23	37.60	34.33	46.40	-12.07
31V	50.536	63.30	1.01	12.69	37.69	39.31	39.10	0.21
32V	50.523Qp	60.93	1.01	12.69	37.69	36.95	39.10	-2.15
33V	56.103	65.50	1.13	10.63	37.57	39.68	39.10	0.58
34V	56.096Qp	64.05	1.13	10.63	37.57	38.23	39.10	-0.87
35H	512.070	45.20	3.50	16.22	37.15	27.77	46.40	-18.63



Test Location : Compatible Electronics
Customer : CMC
Manufacturer : CMC
Eut name : EMULATIONENGINE
Model : RCX-EE11ABG3
Serial # : N/A
Specification : FCC Class A
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : TEST RANGE 30 - 1000 MHz
VERTICAL AND HORIZONTAL POLARIZATIONS - Unintentional Radiator

Page : 2/2
Date : 3/26/2004
Time : 7:56:51
Lab : D
Test Distance : 10.0 Meters

TESTED BY: MICHAEL CHRISTENSEN

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
36H	624.120	48.90	4.05	18.29	37.25	33.99	46.40	-12.41
37H	350.101	58.20	2.70	13.66	37.50	37.06	46.40	-9.34
38H	375.103	53.00	2.91	14.04	37.50	32.45	46.40	-13.95
39V	500.127	45.10	3.40	16.00	37.10	27.40	46.40	-19.00
40V	350.101	51.50	2.70	13.66	37.50	30.36	46.40	-16.04
41V	448.118	47.20	3.58	15.21	37.02	28.98	46.40	-17.42
42V	336.107	46.90	2.67	13.43	37.53	25.48	46.40	-20.92
43V	396.095	48.30	3.07	14.35	37.50	28.22	46.40	-18.18
44V	240.076	43.70	2.32	16.29	37.54	24.78	46.40	-21.62
45V	31.398	48.30	0.83	13.04	37.75	24.42	39.10	-14.68



Test Location : Compatible Electronics

Customer : CMC

Manufacturer : CMC

Eut name : EmulationEngine

Model : RCX-EE11ABG

Serial # : N/A

Specification : FCC Class B

Distance correction factor (20 * log(test/spec)) : 0.00

Test Mode : TEST RANGE 10 kHz - 1000 MHz - Unintentional Radiator
VERTICAL AND HORIZONTAL POLARIZATIONS - In Restricted Bands

Page : 1/1

Date : 3/26/2004

Time : 14:15:50

Lab : D

Test Distance : 3 Meters

TESTED BY: MICHAEL CHRISTENSEN

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	128.094	63.90	1.11	11.53	37.76	38.78	43.50	-4.72
2H	125.204	49.00	1.10	11.41	37.80	23.71	43.50	-19.79
3H	150.049	53.60	1.20	13.00	37.50	30.30	43.50	-13.20
4H	240.093	50.40	1.56	16.29	37.54	30.72	46.00	-15.28
5H	250.102	50.00	1.60	16.61	37.50	30.71	46.00	-15.29
6H	275.067	44.70	1.60	18.22	37.60	26.93	46.00	-19.07
7H	256.054	53.80	1.60	17.01	37.53	34.88	46.00	-11.12
8V	120.097	52.90	1.06	9.93	37.75	26.15	43.50	-17.35
9V	125.089	47.90	1.10	11.40	37.80	22.61	43.50	-20.89
10V	128.099	61.50	1.11	11.53	37.76	36.38	43.50	-7.12
11V	150.049	50.60	1.20	13.00	37.50	27.30	43.50	-16.20
12V	240.091	44.60	1.56	16.29	37.54	24.92	46.00	-21.08
13V	250.089	48.10	1.60	16.61	37.50	28.81	46.00	-17.19
14V	256.099	50.10	1.60	17.01	37.53	31.18	46.00	-14.82
15V	275.113	41.80	1.60	18.23	37.60	24.03	46.00	-21.97
16H	990.060	39.40	3.26	21.61	35.48	28.80	54.00	-25.20
17V	990.080	42.90	3.26	21.61	35.47	32.30	54.00	-21.70
18H	120.107	51.30	1.06	9.93	37.75	24.55	43.50	-18.95

CMC
EmulationEngine
Model: RCX-EE11ABG3

Date: 3/17/04
Lab: B
Tested By: Ben Chavez

Radiated Emissions from the Digital Portion 1 GHz to 40 GHz

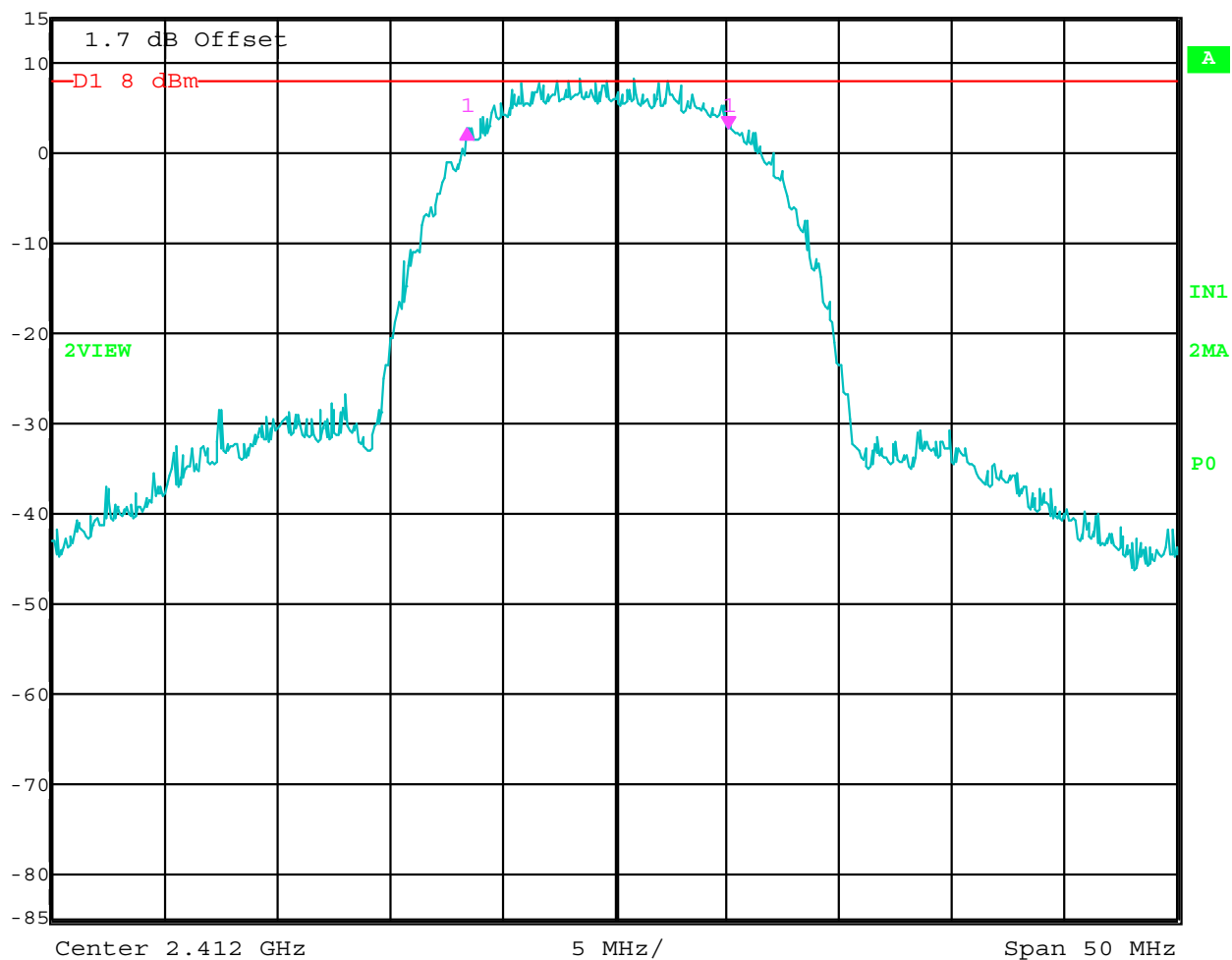
[illegible]

-6 dB BANDWIDTH

DATA SHEETS



Ref Lvl	Delta 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-0.01 dB	VBW	300 kHz		
	-11.62324649 MHz	SWT	12.5 ms	Unit	dBm

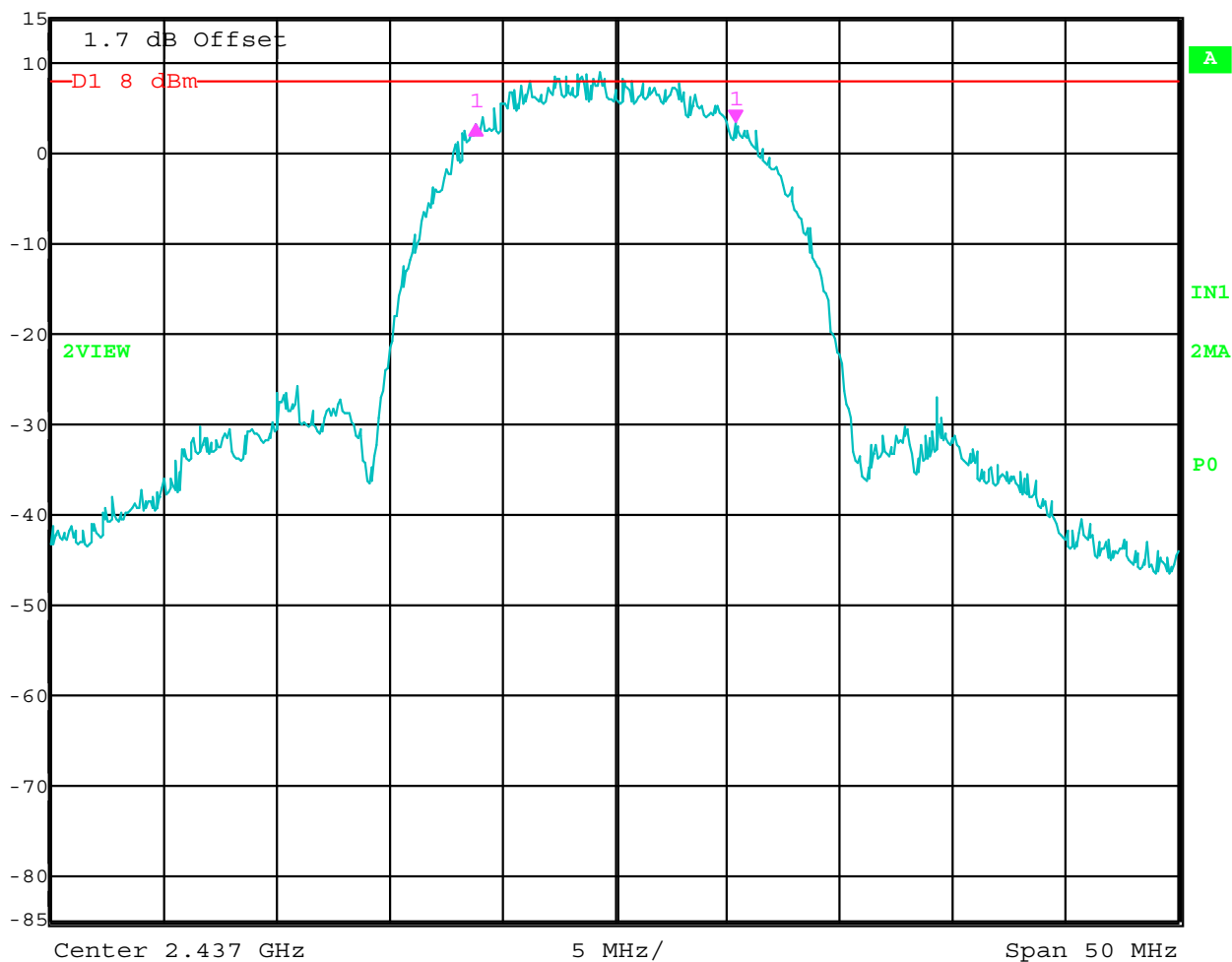


Date: 29.MAR.2004 21:53:12

-6 dB Bandwidth – Channel 1 – 802.11 b Mode



Ref Lvl	Delta 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-0.05 dB	VBW	300 kHz		
	-11.52304609 MHz	SWT	12.5 ms	Unit	dBm

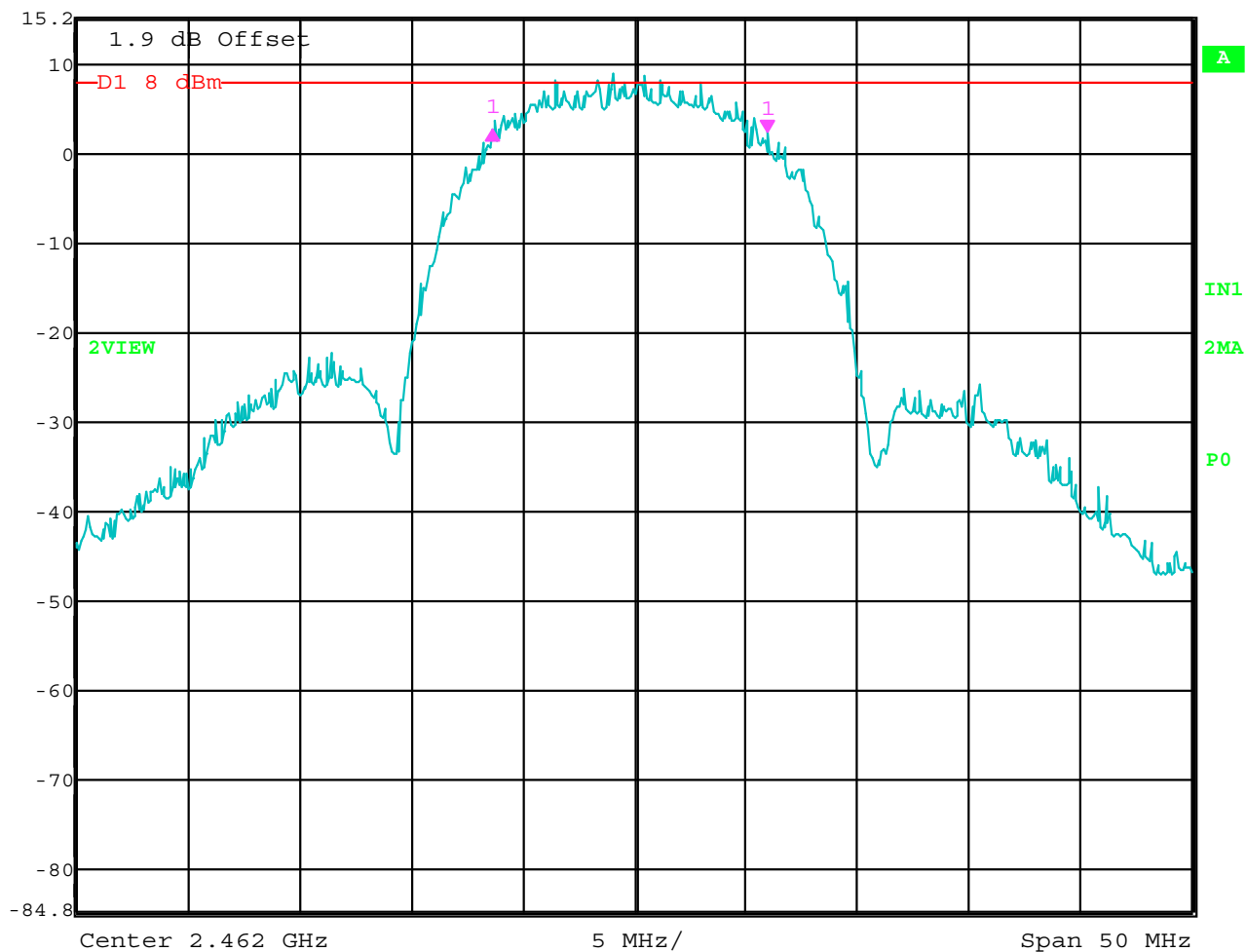


Date: 29.MAR.2004 21:59:41

-6 dB Bandwidth – Channel 6 – 802.11 b Mode



Delta 1 [T2]	RBW	100 kHz	RF Att	40 dB
Ref Lvl	0.26 dB	VBW	300 kHz	
15.2 dBm	-12.32464930 MHz	SWT	12.5 ms	Unit dBm

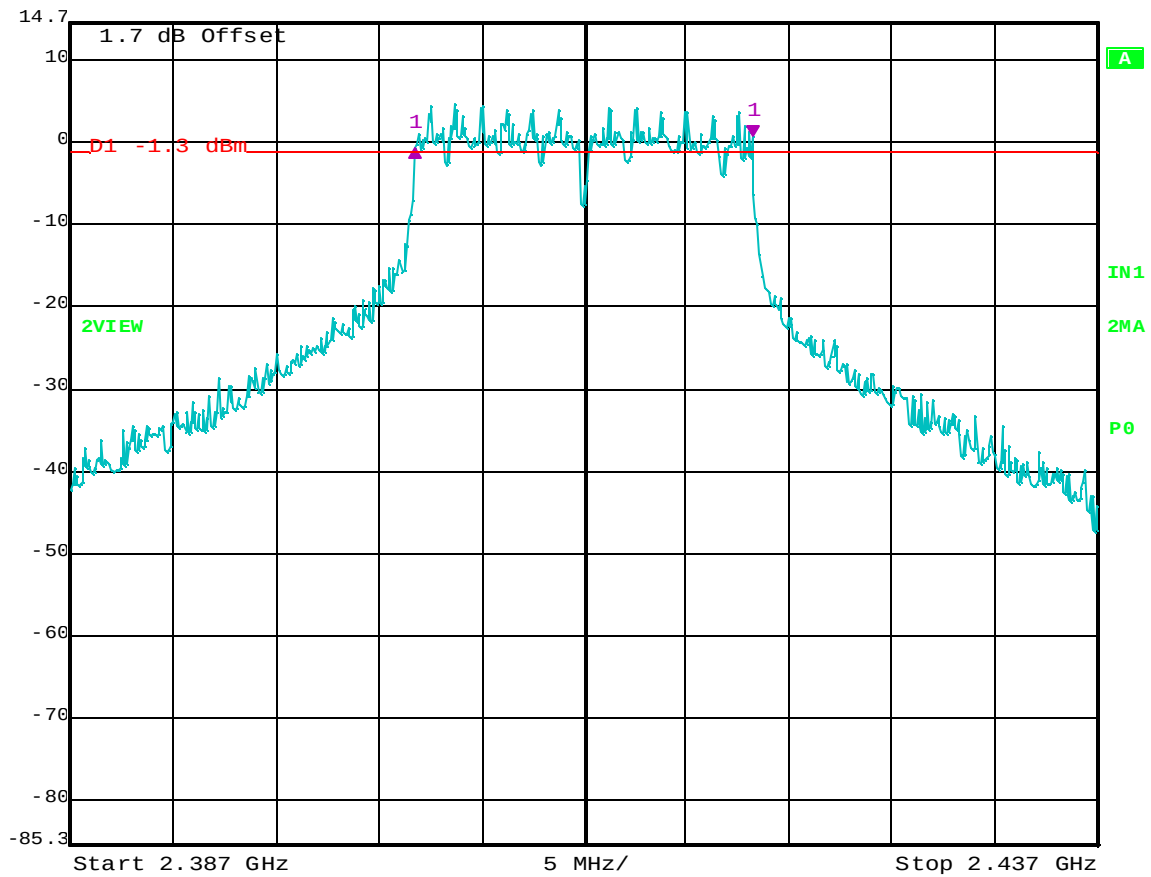


Date: 29.MAR.2004 21:56:25

-6 dB Bandwidth – Channel 11 – 802.11 b Mode



Ref Lvl 14.7 dBm
Delta 1 [T2] -1.46 dB
-16.53306613 MHz
RBW 100 kHz RF Att 30 dB
VBW 300 kHz
SWT 12.5 ms Unit dBm

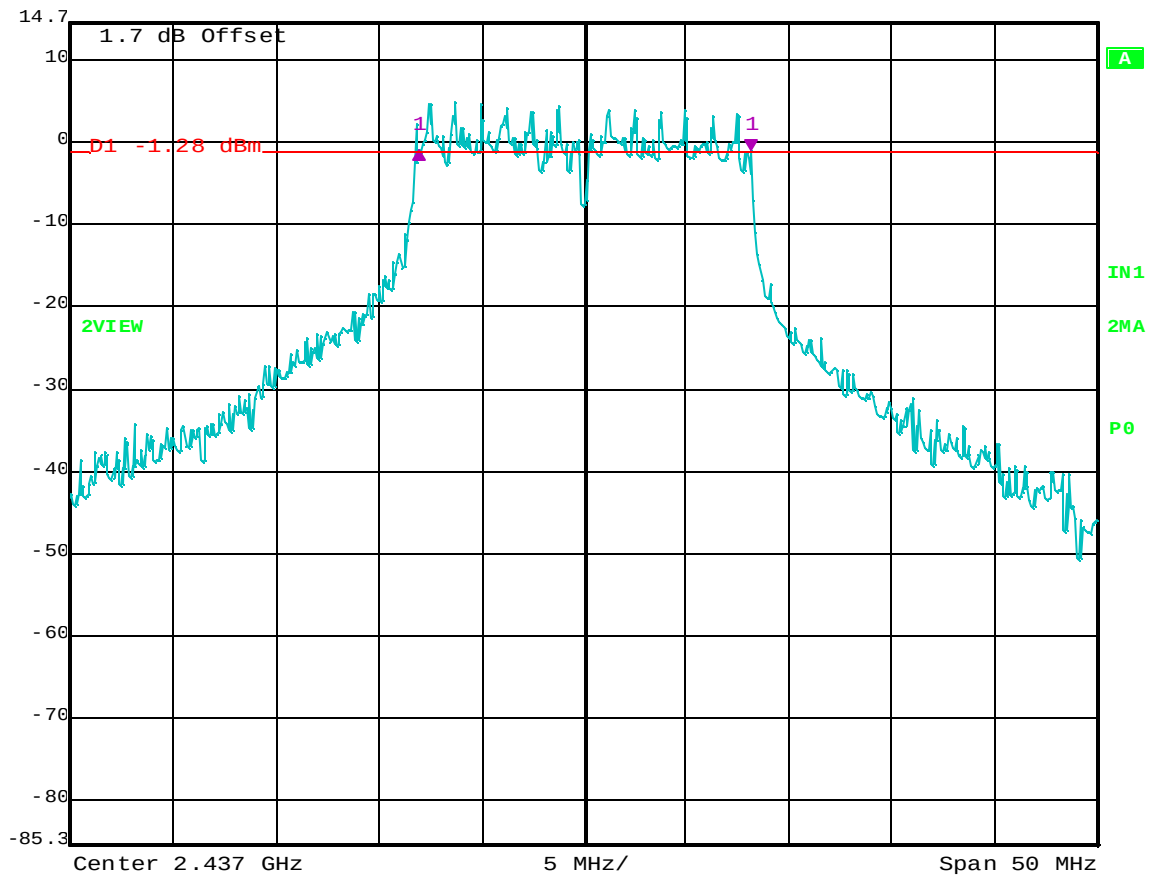


Date: 31.MAR.2004 12:05:01

Bandwidth 6 dB – Channel 1 – 802.11 g Mode



Ref Lvl 14.7 dBm
Delta 1 [T2] 0.18 dB
-16.23246493 MHz
RBW 100 kHz RF Att 30 dB
VBW 300 kHz
SWT 12.5 ms Unit dBm



Date: 31.MAR.2004 10:57:27

Bandwidth 6 dB – Channel 6 – 802.11 g Mode



Delta 1 [T2]

RBW 100 kHz RF Att 30 dB

Ref Lvl

0.05 dB

VBW 300 kHz

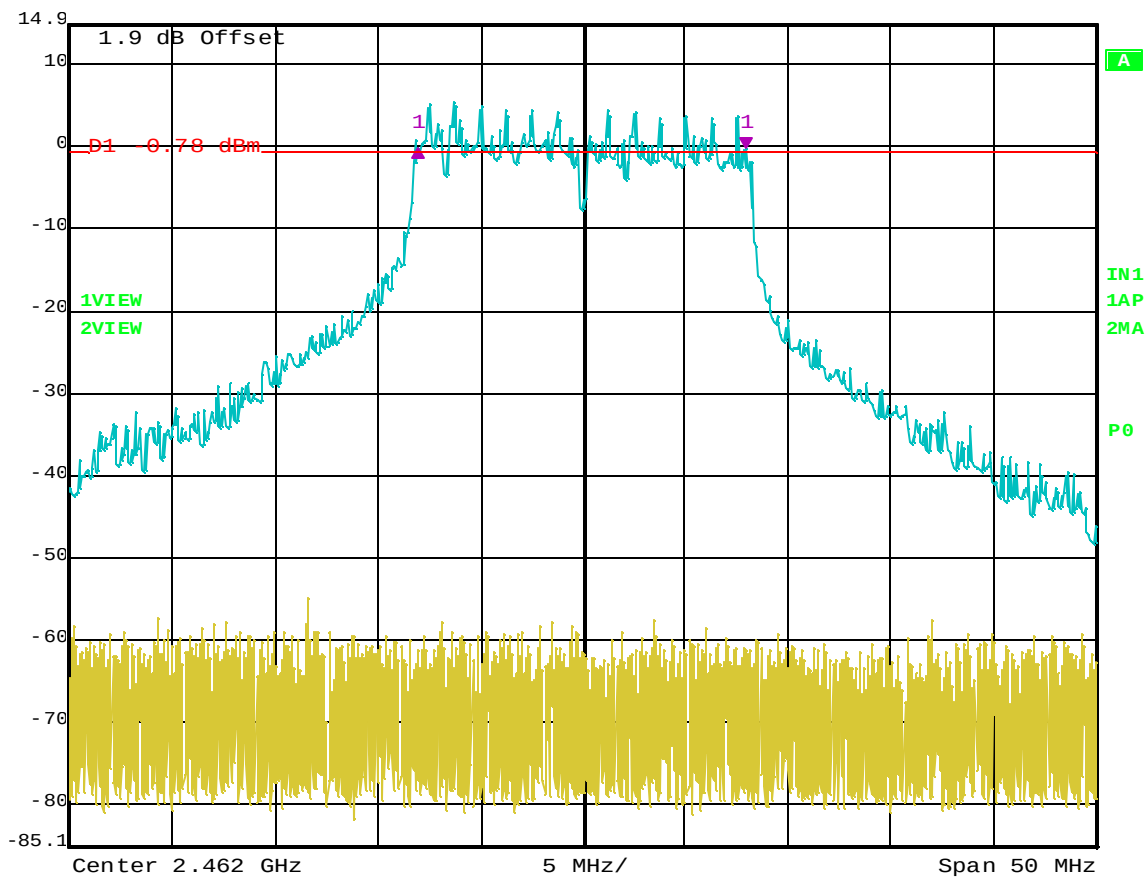
14.9 dBm

-16.03206413 MHz

SWT 12.5 ms

Unit

dBm

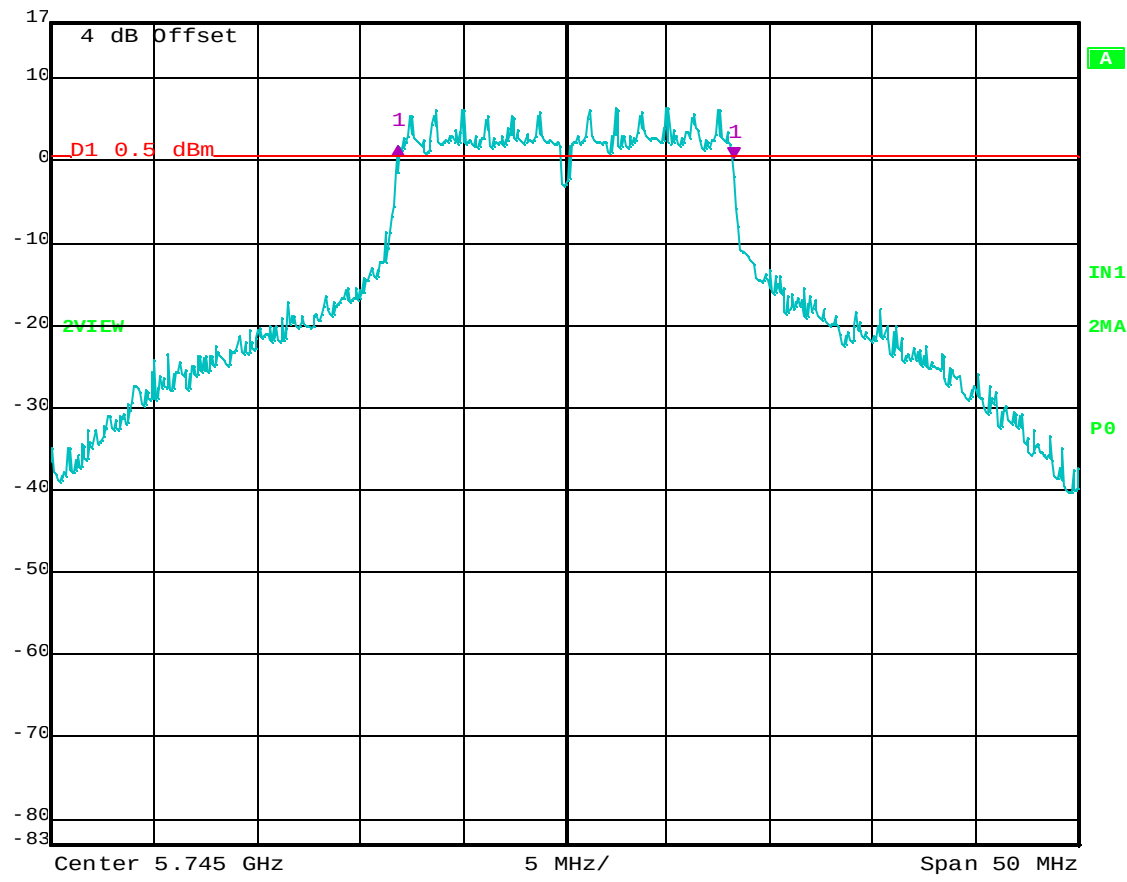


Date: 31.MAR.2004 11:23:37

Bandwidth -6 dB - Channel 11 - 802.11 g Mode



Ref Lvl 17 dBm
Delta 1 [T2] 1.48 dB
-16.43286573 MHz
RBW 100 kHz RF Att 30 dB
VBW 300 kHz
SWT 12.5 ms Unit dBm

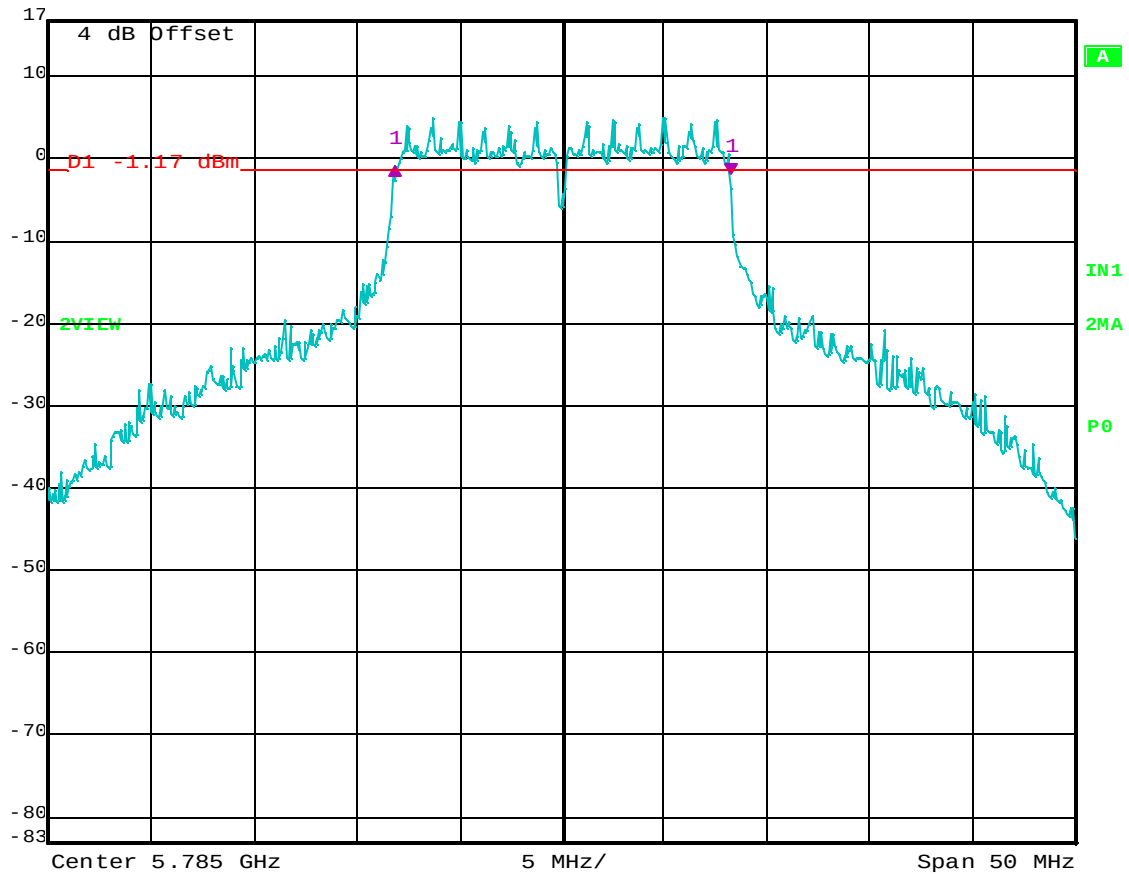


Date: 31.MAR.2004 17:35:25

Bandwidth 6 dB – Channel 149 – 802.11 a Mode



Ref Lvl 17 dBm
Delta 1 [T2] 0.84 dB
-16.43286573 MHz
RBW 100 kHz RF Att 30 dB
VBW 300 kHz
SWT 12.5 ms Unit dBm

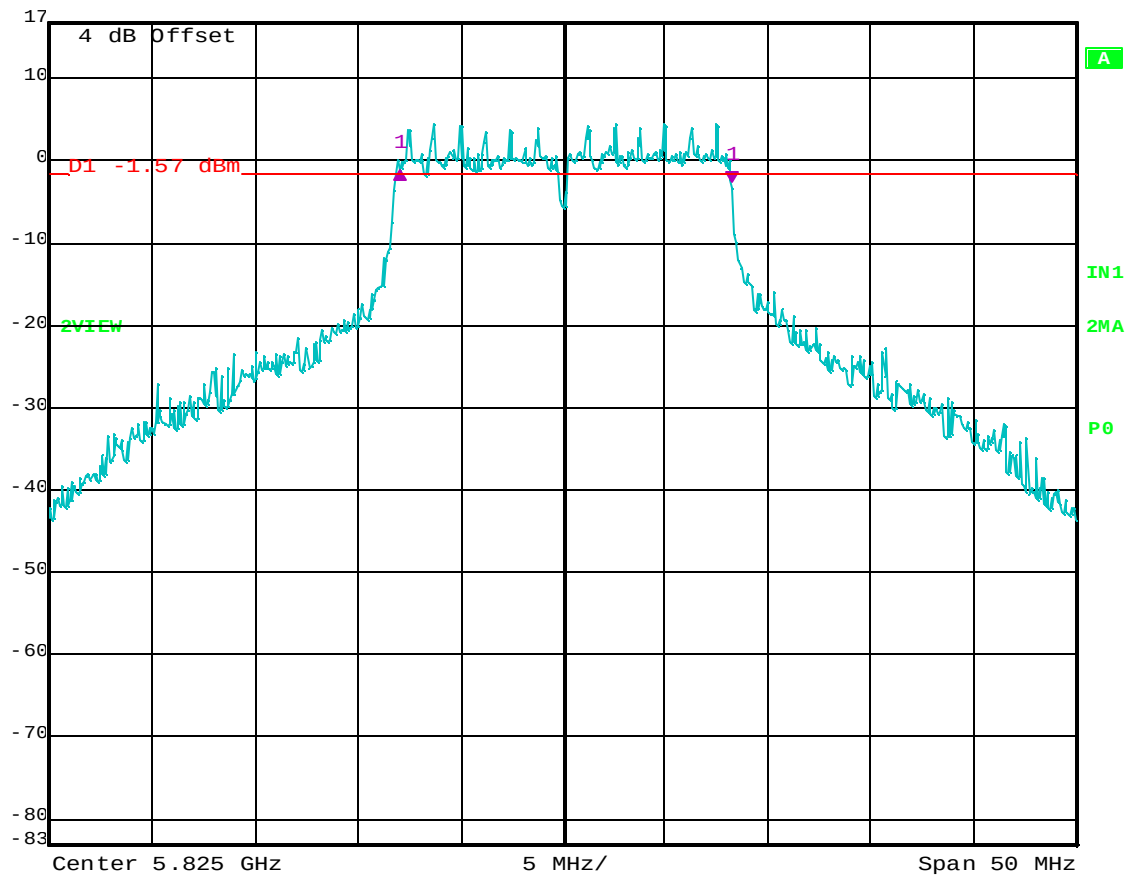


Date: 31.MAR.2004 18:12:33

Bandwidth 6 dB – Channel 157 – 802.11 a Mode



Ref Lvl 17 dBm
Delta 1 [T2] 1.49 dB
-16.23246493 MHz
RBW 100 kHz RF Att 30 dB
VBW 300 kHz
SWT 12.5 ms Unit dBm



Date: 31.MAR.2004 18:58:09

Bandwidth 6 dB – Channel 165 – 802.11 a Mode

PEAK POWER OUTPUT

DATA SHEETS

PEAK OUTPUT POWER

CMC

EmulationEngine

MODEL: RCX-EE11ABG3

802.11 b Mode (Worst Case Rate = 1 Mbps)

CHANNEL	PEAK POWER OUTPUT (dBm)
1 (2402 MHz)	21.30 dBm
6 (2441 MHz)	21.40 dBm
11 (2480 MHz)	21.10 dBm

802.11 g Mode (Worst Case Rate = 6 Mbps)

CHANNEL	PEAK POWER OUTPUT (dBm)
1 (2402 MHz)	19.76 dBm
6 (2441 MHz)	20.89 dBm
11 (2480 MHz)	20.43 dBm

802.11 a Mode (DTS) (Worst Case Rate = 6 Mbps)

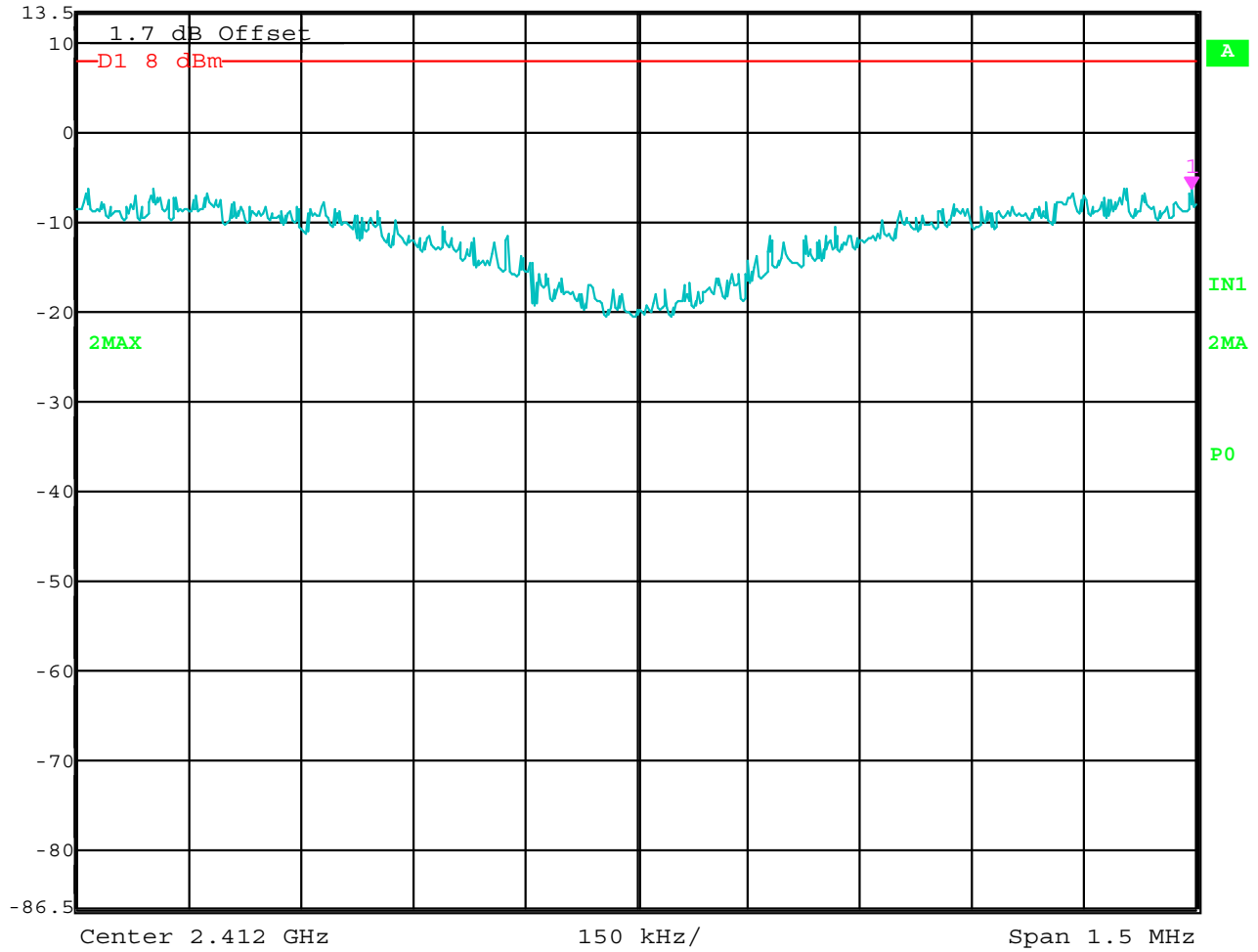
CHANNEL	PEAK POWER OUTPUT (dBm)
149 (5745 MHz)	23.72 dBm
157 (5785 MHz)	23.60 dBm
165 (5825 MHz)	23.08 dBm

PEAK POWER SPECTRAL DENSITY

DATA SHEETS



Marker 1 [T2] RBW 3 kHz RF Att 40 dB
Ref Lvl -6.31 dBm VBW 10 kHz
13.5 dBm 2.41274399 GHz SWT 500 s Unit dBm

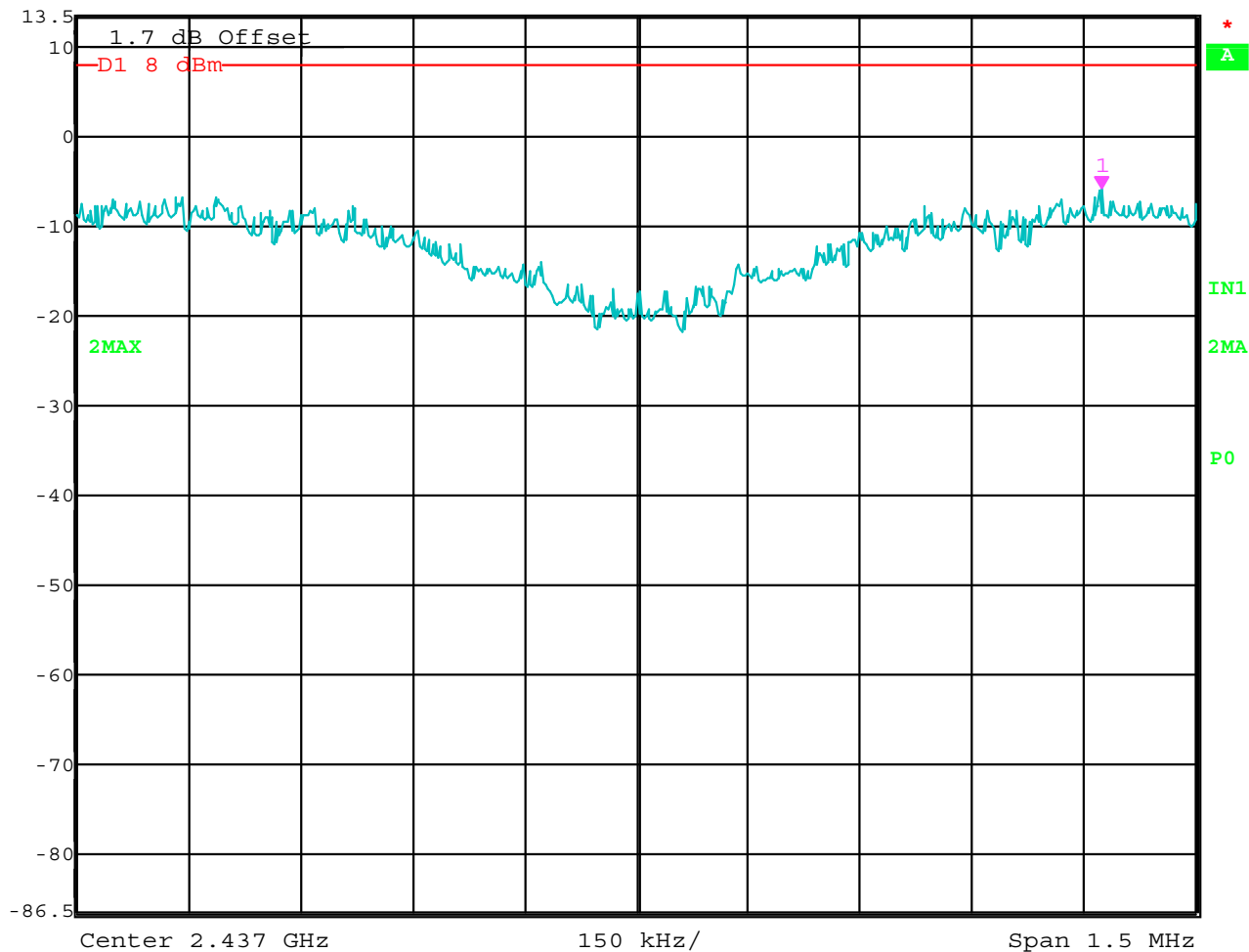


Date: 29.MAR.2004 23:09:43

Spectral Density Output – Channel 1 – 802.11 b Mode



Marker 1 [T2] RBW 3 kHz RF Att 40 dB
Ref Lvl -6.00 dBm VBW 10 kHz
13.5 dBm 2.43762375 GHz SWT 500 s Unit dBm

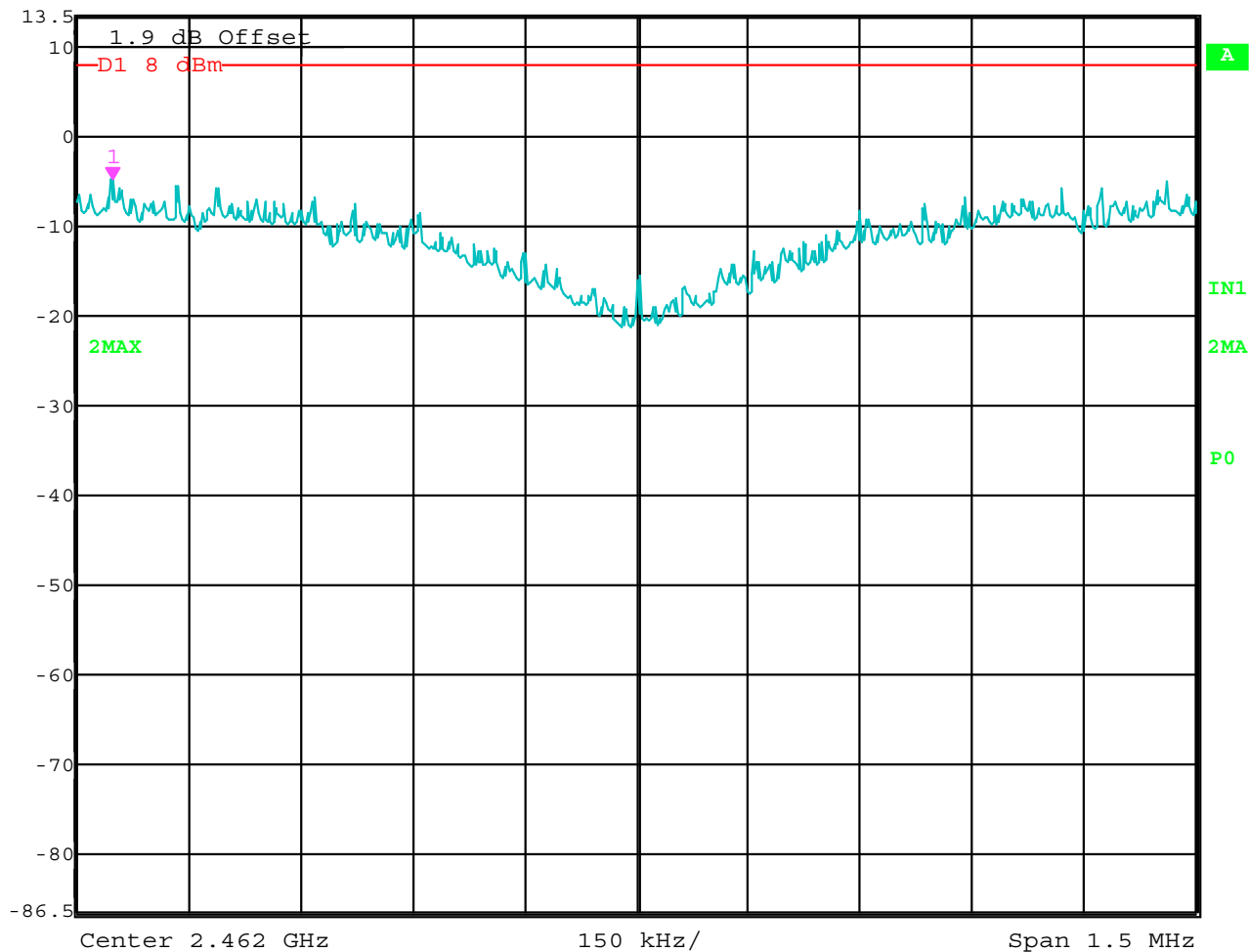


Date: 29.MAR.2004 23:22:47

Spectral Density Output – Channel 6 – 802.11 b Mode



Marker 1 [T2] RBW 3 kHz RF Att 40 dB
Ref Lvl -4.92 dBm VBW 10 kHz
13.5 dBm 2.46129810 GHz SWT 500 s Unit dBm

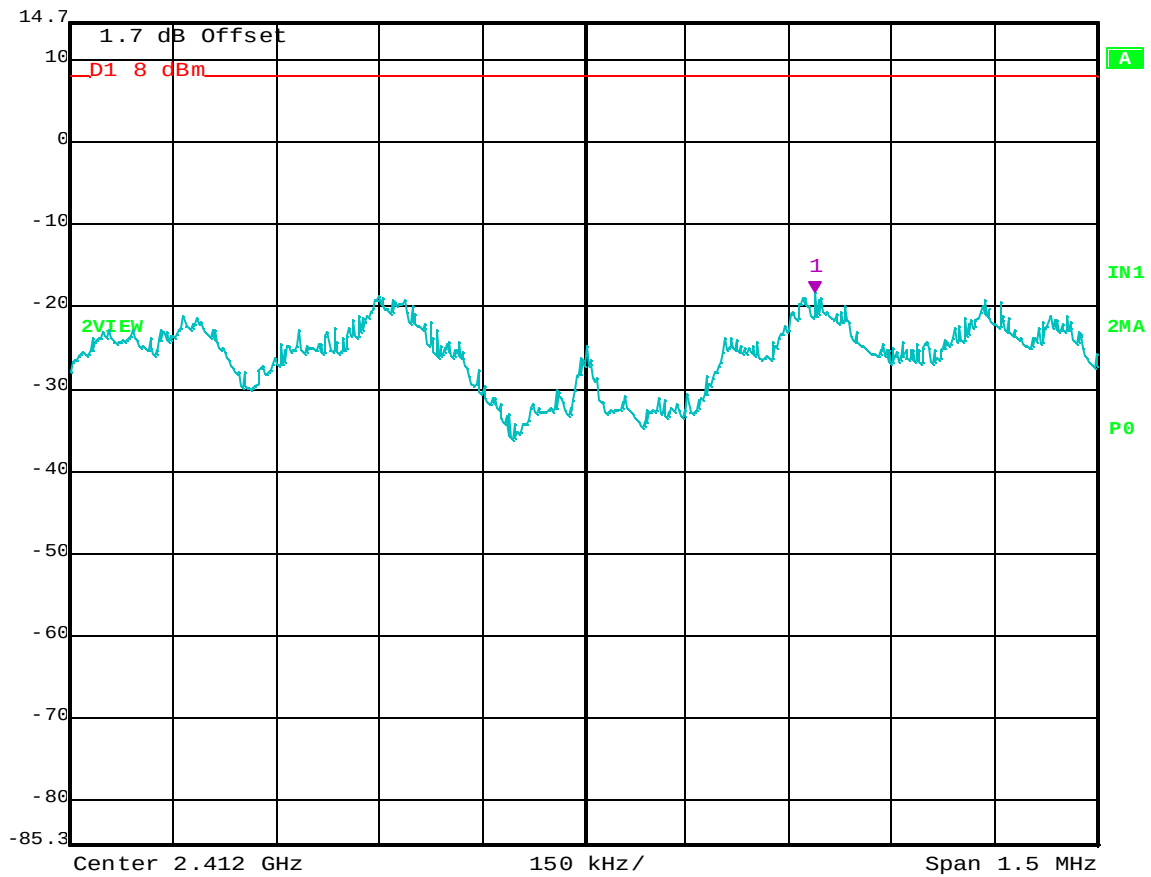


Date: 29.MAR.2004 23:46:12

Spectral Density Output – Channel 11 – 802.11 b Mode



Ref Lvl 14.7 dBm
Marker 1 [T2] -18.51 dBm
2.41233818 GHz
RBW 3 kHz
VBW 10 kHz
RF Att 30 dB
SWT 500 s
Unit dBm



Date: 31.MAR.2004 12:18:13

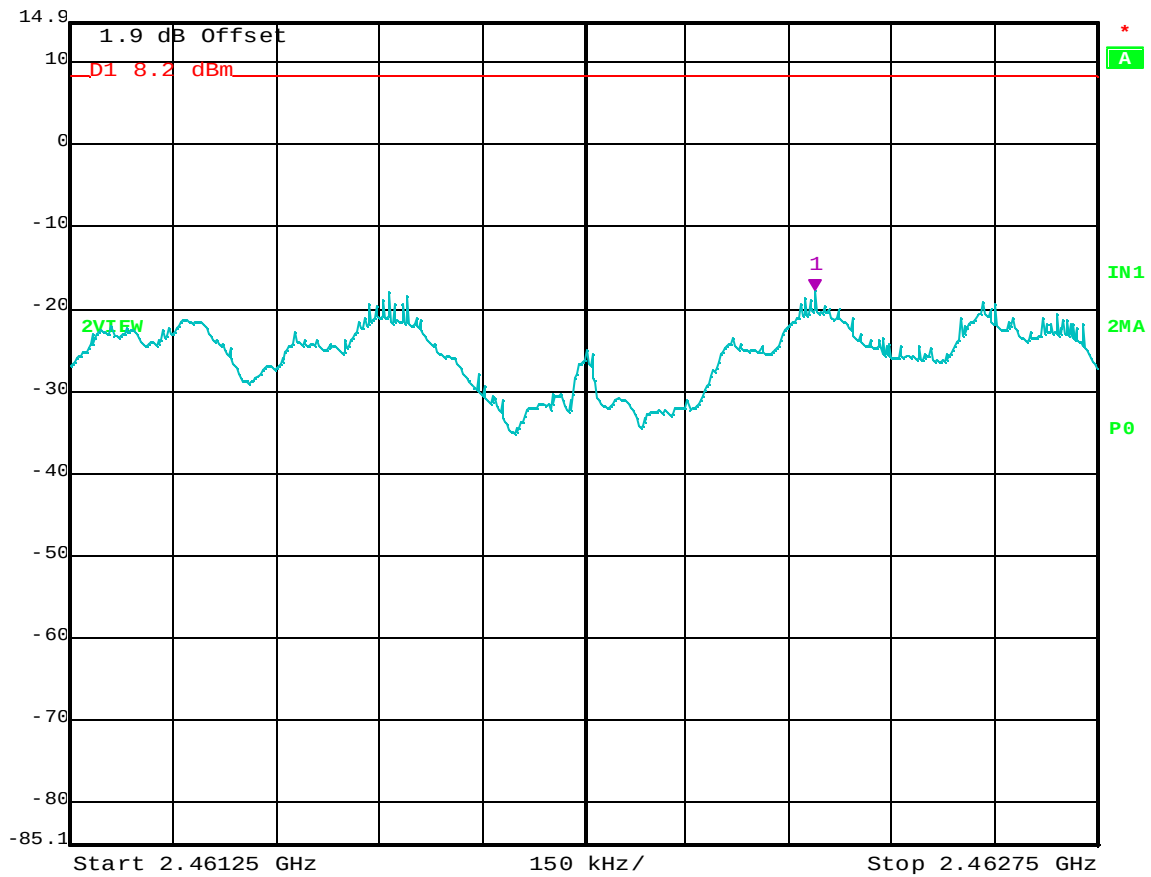
Peak Power Spectral Density – Channel 1 – 802.11 g Mode



Peak Power Spectral Density – Channel 6 – 802.11 g Mode



Ref Lvl 14.9 dBm
Marker 1 [T2] -17.92 dBm
2.46233818 GHz
RBW 3 kHz
RF Att 30 dB
VBW 10 kHz
SWT 500 s
Unit dBm

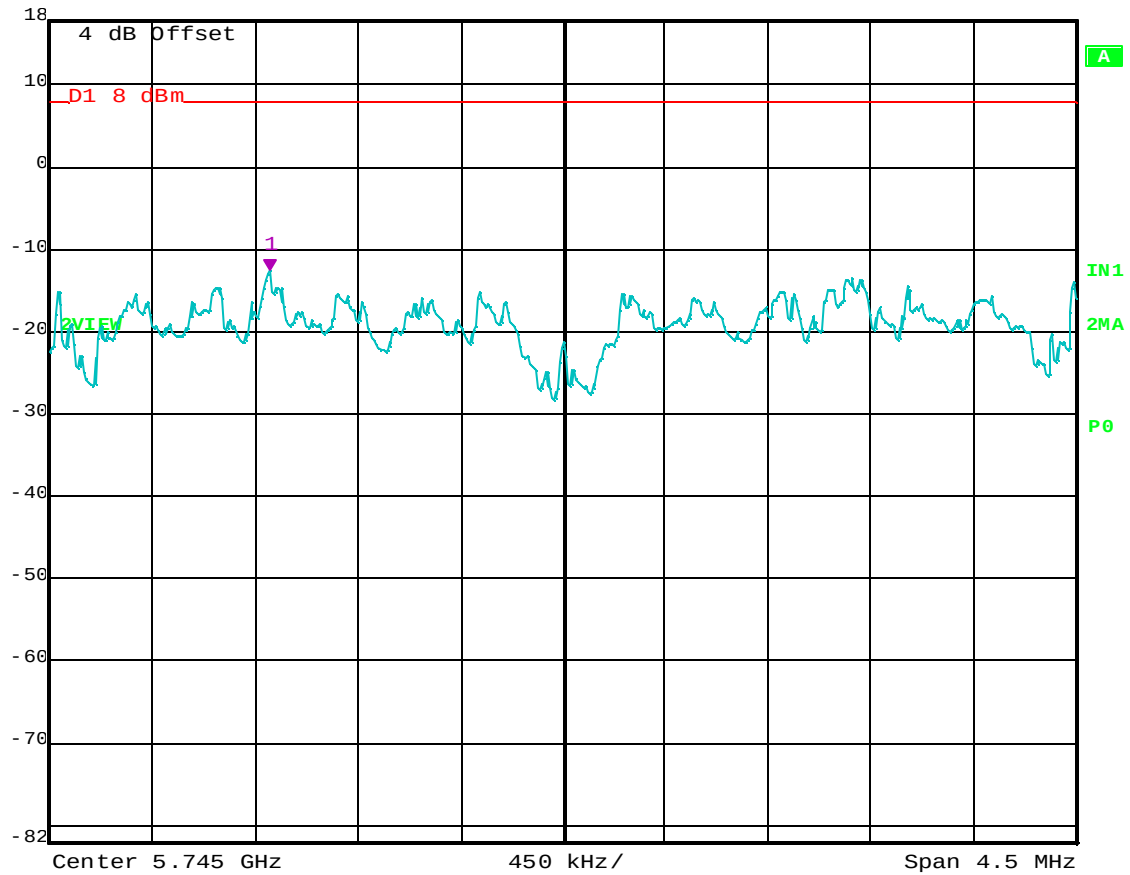


Date: 31.MAR.2004 11:59:01

Peak Power Spectral Density – Channel 11 – 802.11 g Mode



Ref Lvl 18 dBm
Marker 1 [T2] -12.64 dBm
5.74371493 GHz
RBW 3 kHz
RF Att 30 dB
VBW 10 kHz
SWT 1500 s
Unit dBm

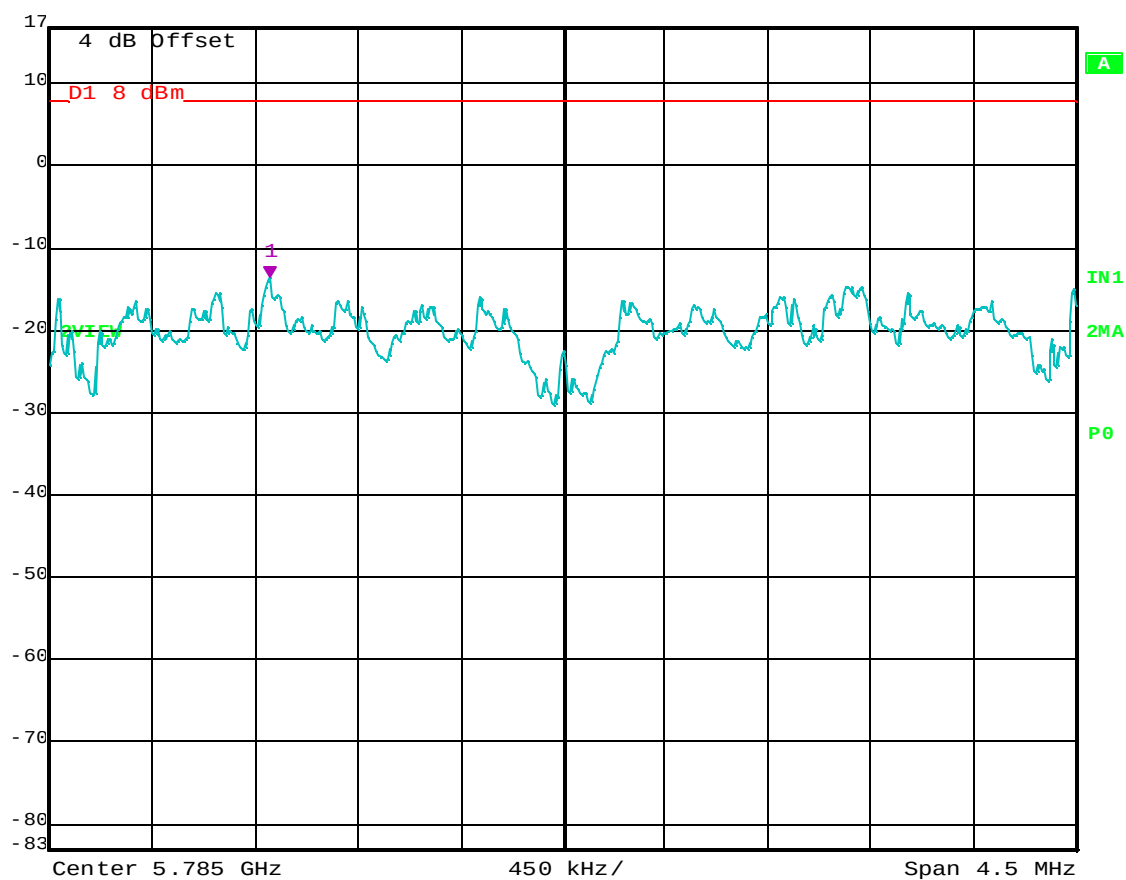


Date: 31.MAR.2004 18:08:18

Peak Power Spectral Density – Channel 149 – 802.11 a Mode



Ref Lvl 17 dBm
Marker 1 [T2] -13.73 dBm
5.78371493 GHz
RBW 3 kHz
RF Att 30 dB
VBW 10 kHz
SWT 1500 s
Unit dBm

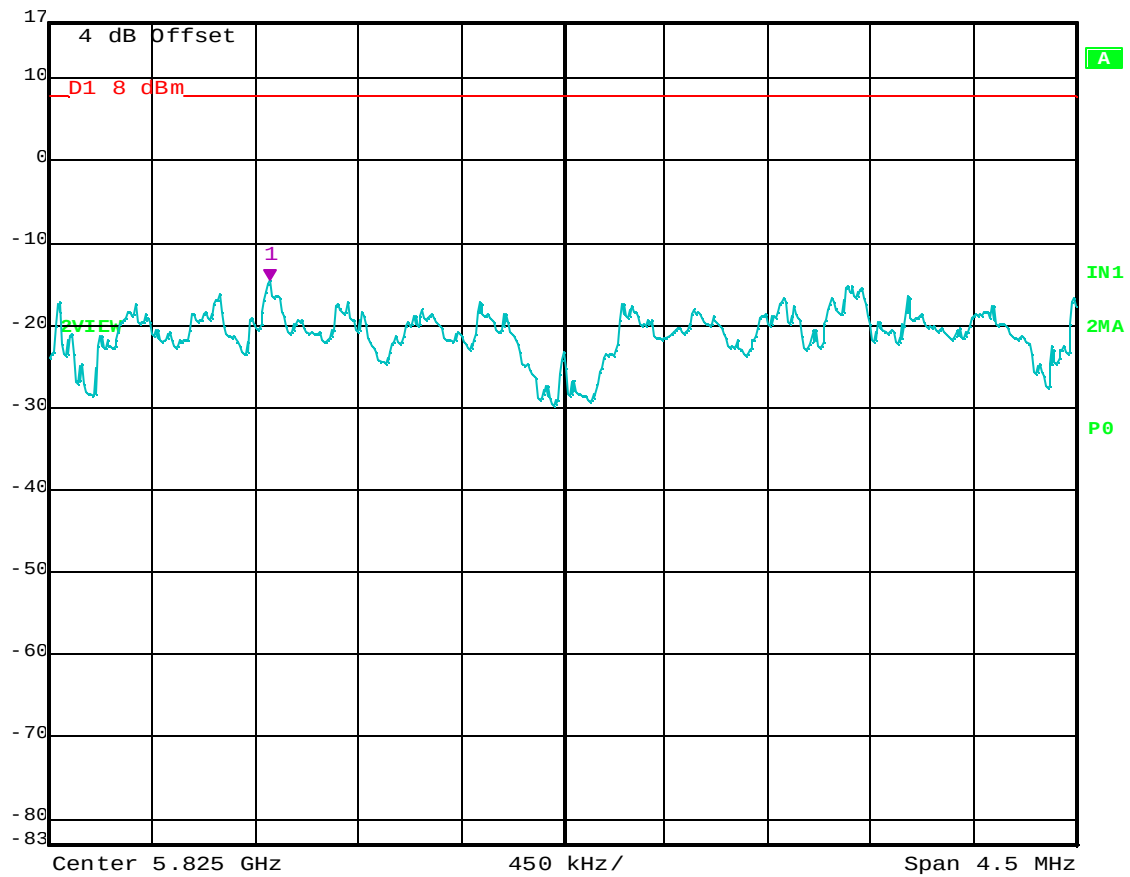


Date: 31.MAR.2004 18:43:02

Peak Power Spectral Density – Channel 157 – 802.11 a Mode



Ref Lvl 17 dBm
Marker 1 [T2] -14.69 dBm
5.82371493 GHz
RBW 3 kHz
VBW 10 kHz
RF Att 30 dB
SWT 1500 s
Unit dBm



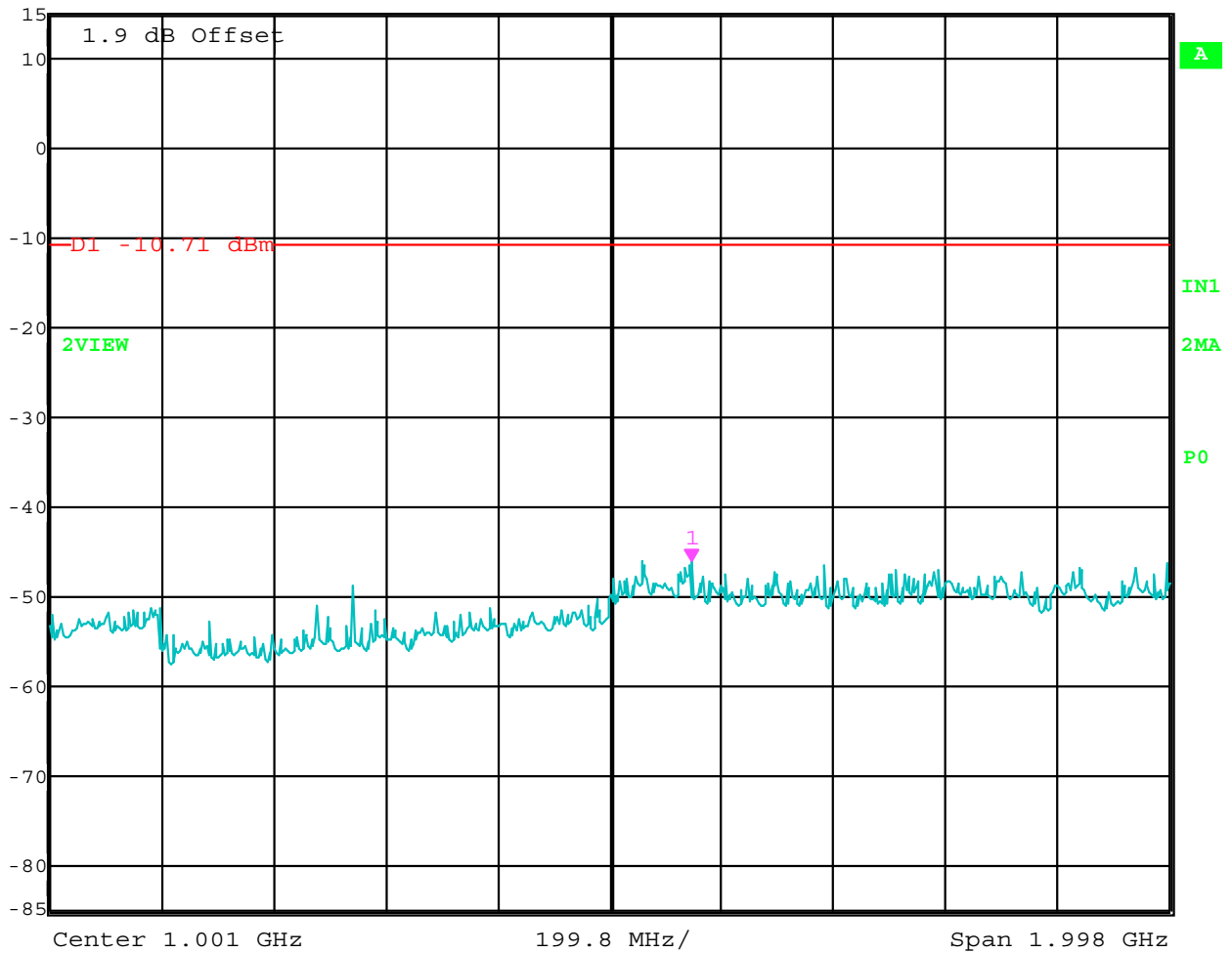
Date: 31.MAR.2004 19:41:38

Peak Power Spectral Density – Channel 165 – 802.11 a Mode

***EMISSIONS PRODUCED BY
THE INTENTIONAL RADIATOR
IN NON-RESTRICTED BANDS
DATA SHEETS -- 802.11 b and 802.11 g MODES***



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-46.10 dBm	VBW	300 kHz		
	1.14714629 GHz	SWT	700 ms	Unit	dBm

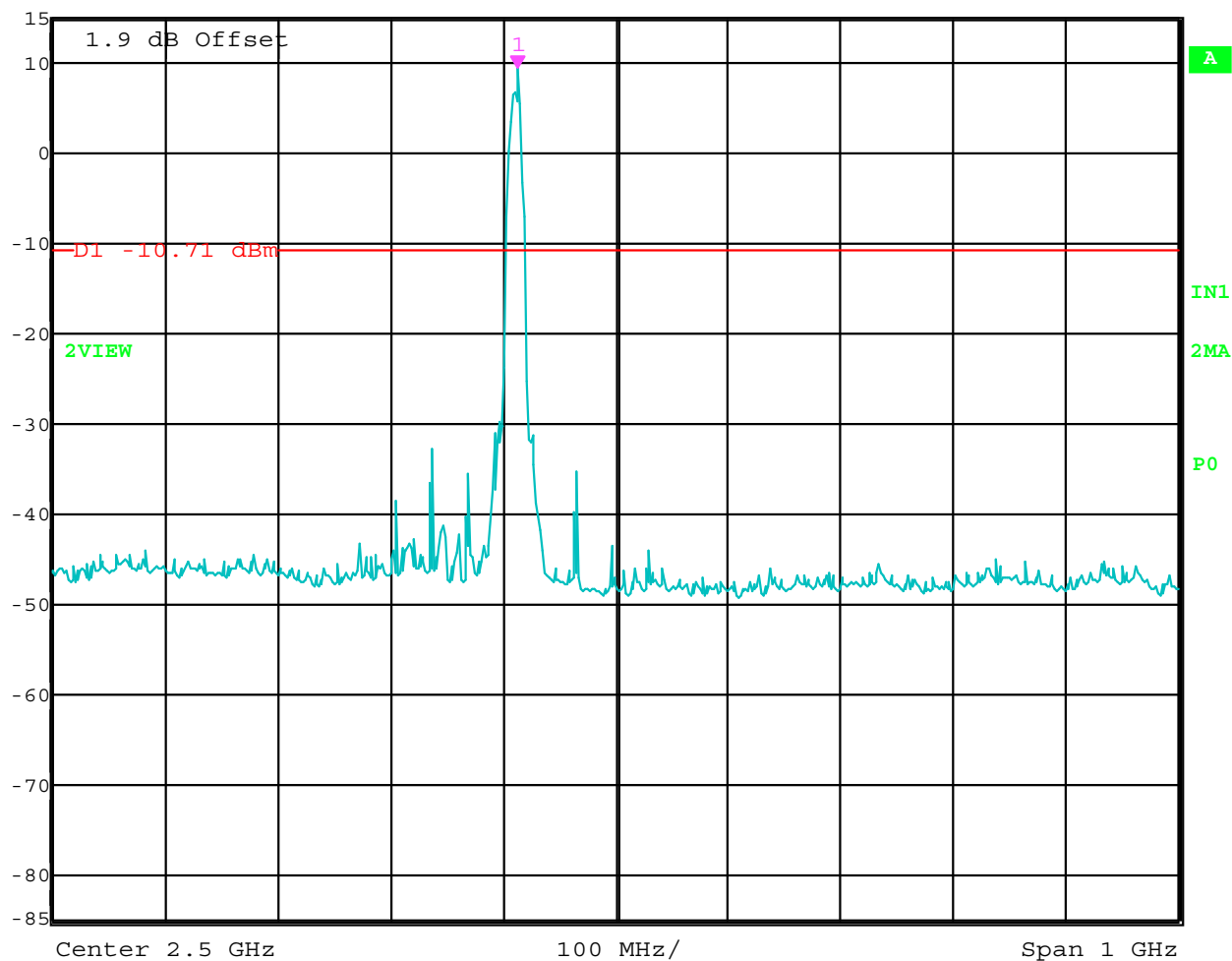


Date: 29.MAR.2004 20:56:01

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl 9.29 dBm VBW 300 kHz
15 dBm 2.41200000 GHz SWT 250 ms Unit dBm

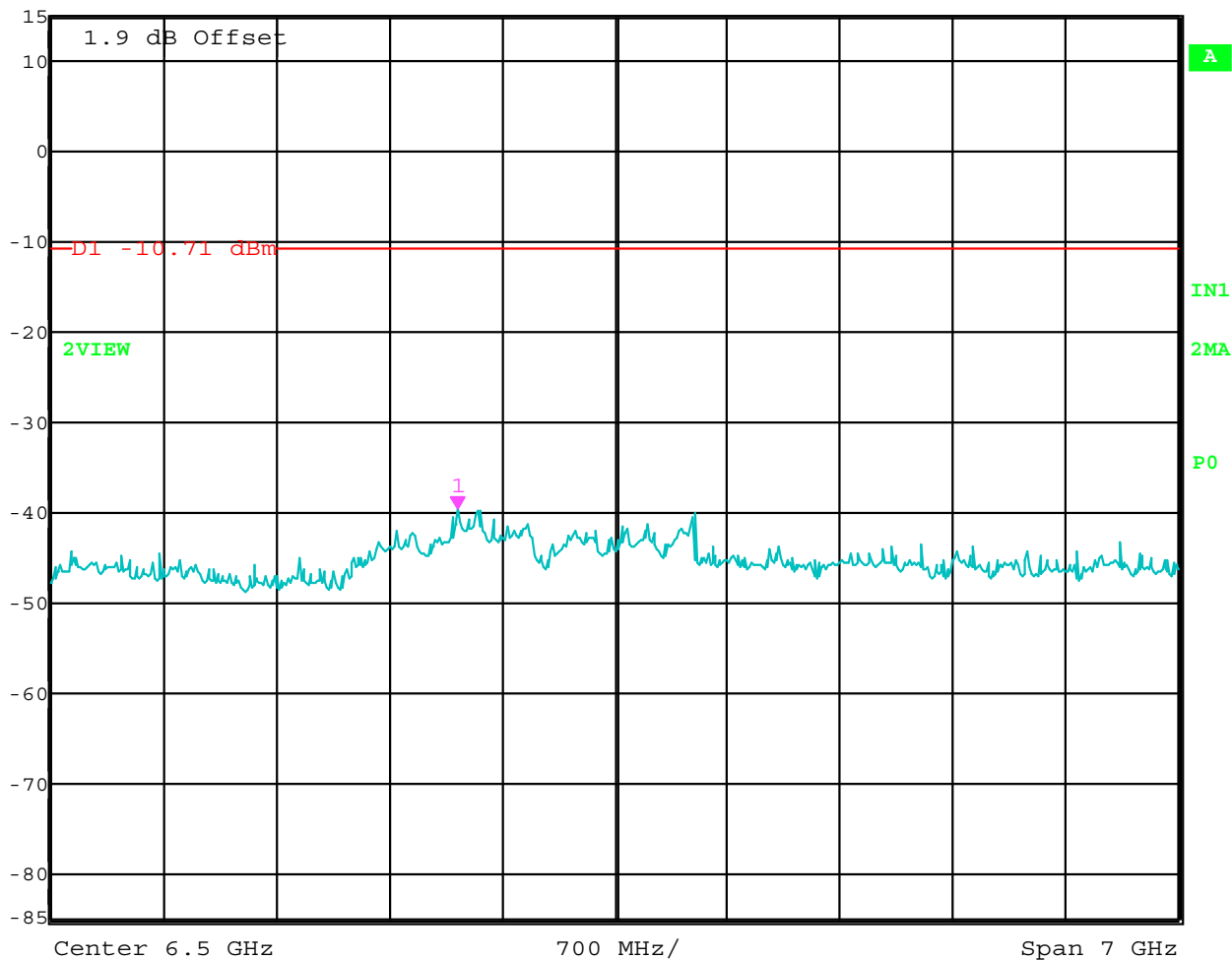


Date: 29.MAR.2004 20:54:26

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -39.67 dBm VBW 300 kHz
15 dBm 5.52505010 GHz SWT 1.75 s Unit dBm

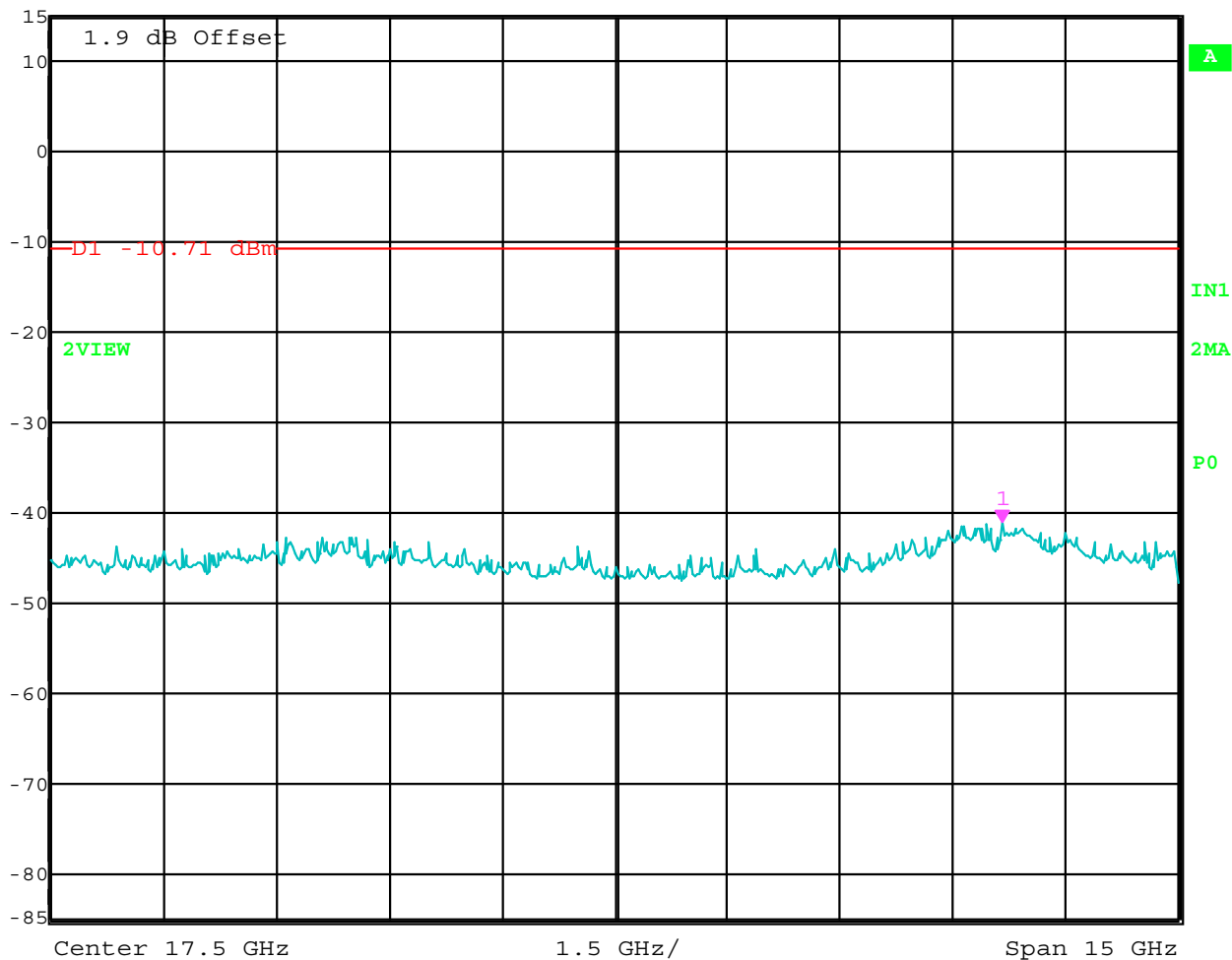


Date: 29.MAR.2004 20:56:49

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -41.20 dBm VBW 300 kHz
15 dBm 22.65531062 GHz SWT 3.8 s Unit dBm

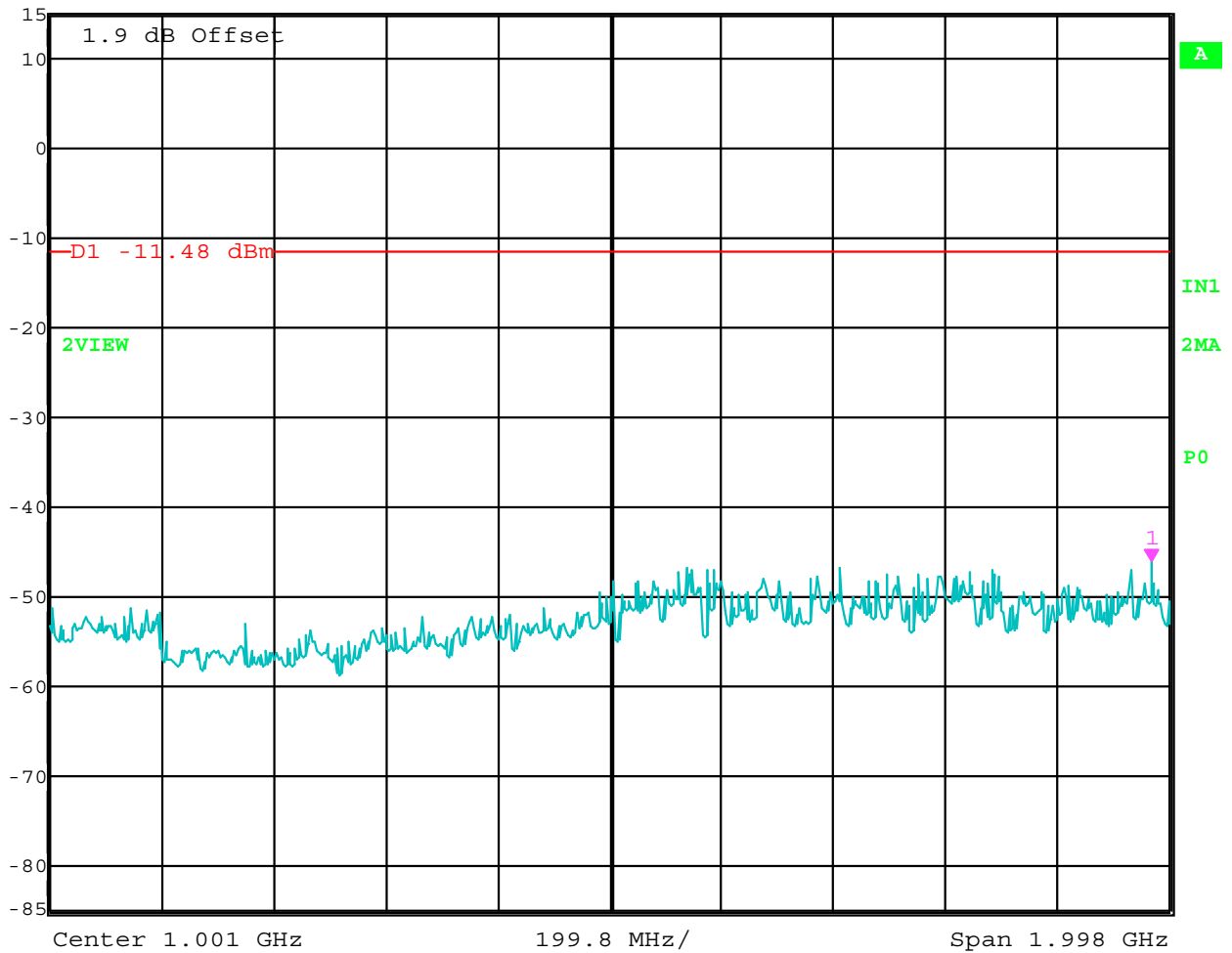


Date: 29.MAR.2004 20:57:34

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



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-46.05 dBm	VBW	300 kHz		
	1.96796794 GHz	SWT	700 ms	Unit	dBm

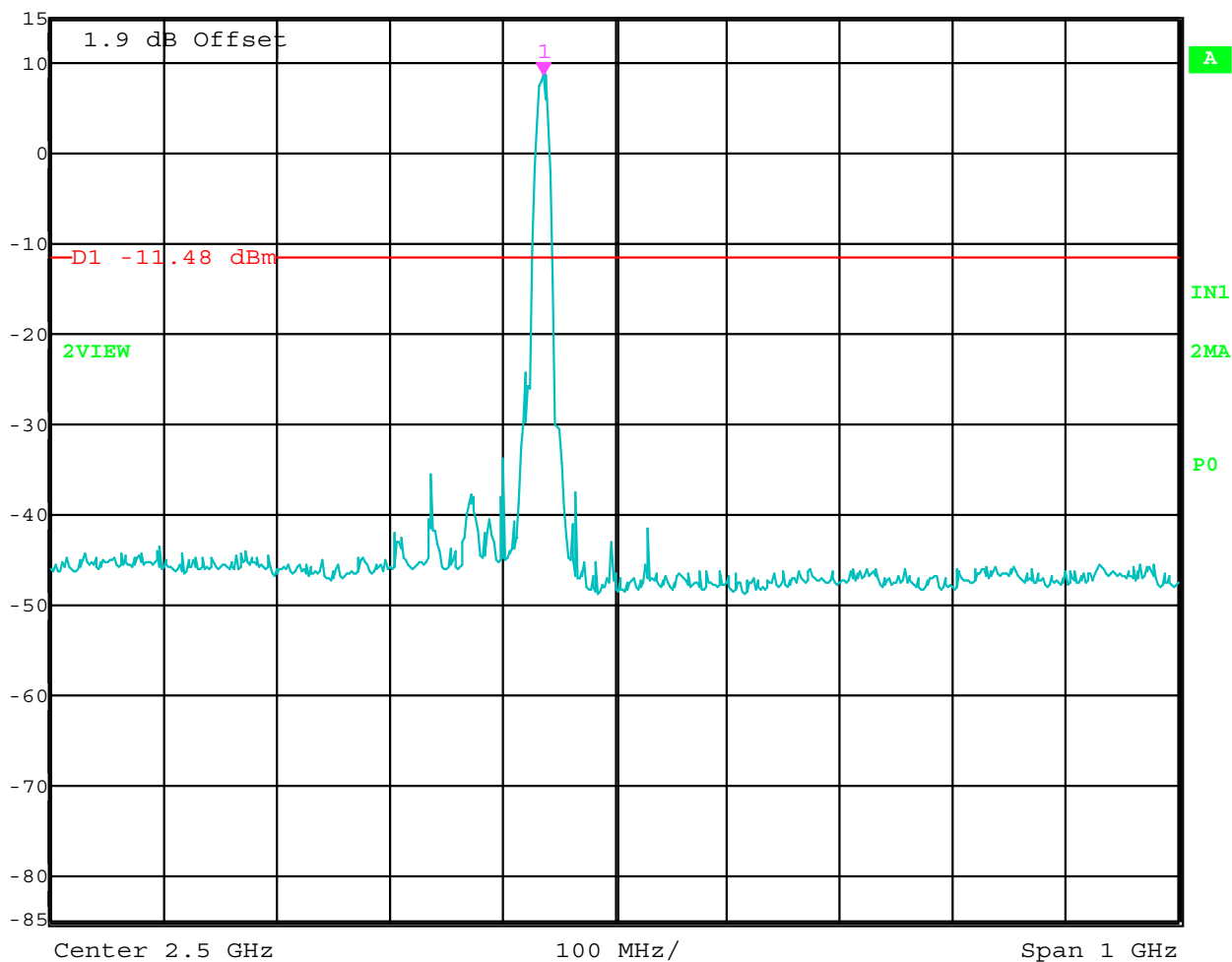


Date: 29.MAR.2004 20:28:52

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl 8.52 dBm VBW 300 kHz
15 dBm 2.43700000 GHz SWT 250 ms Unit dBm

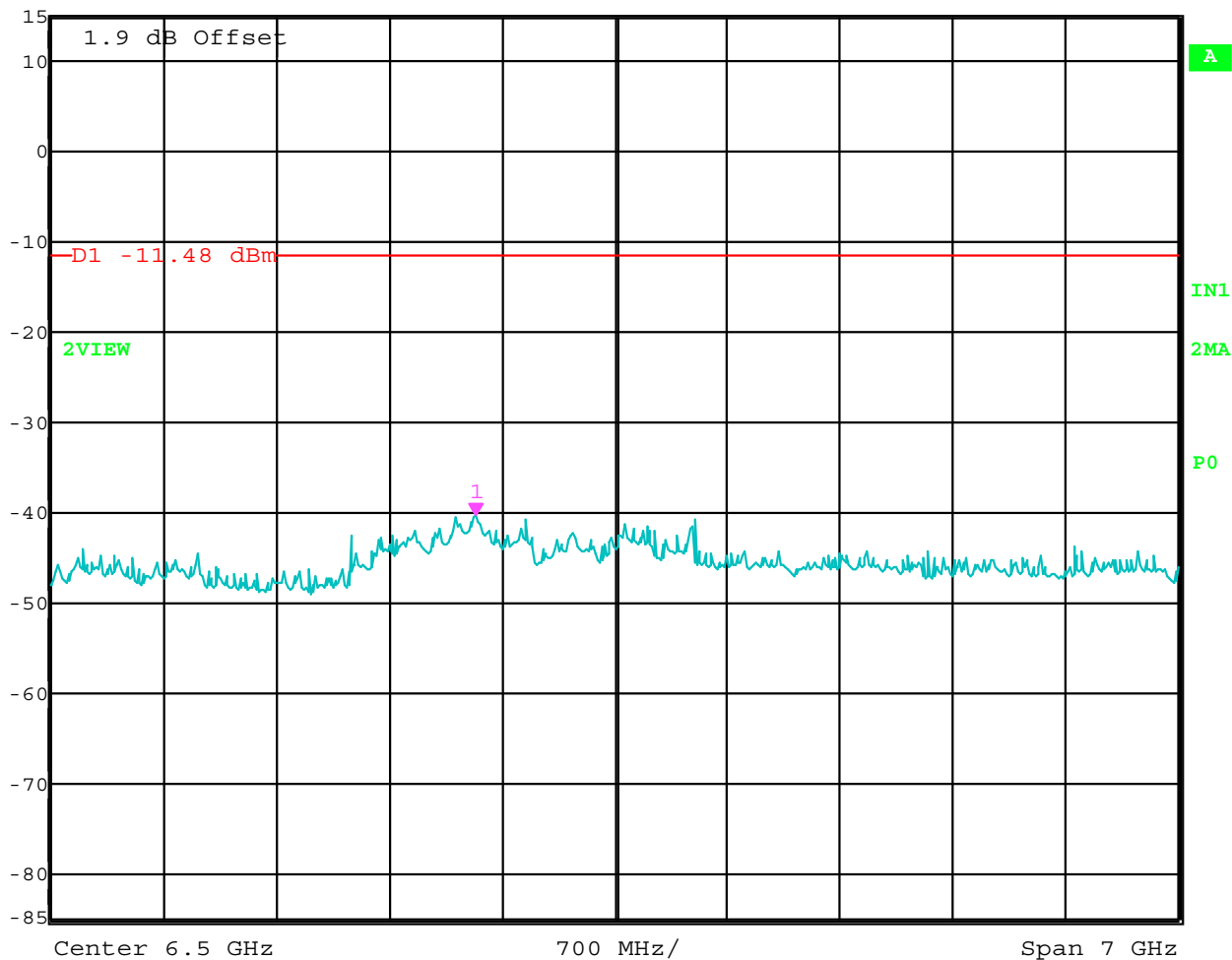


Date: 29.MAR.2004 20:27:42

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



Ref Lvl 15 dBm Marker 1 [T2] RBW 100 kHz RF Att 40 dB
-40.35 dBm VBW 300 kHz
5.63727455 GHz SWT 1.75 s Unit dBm

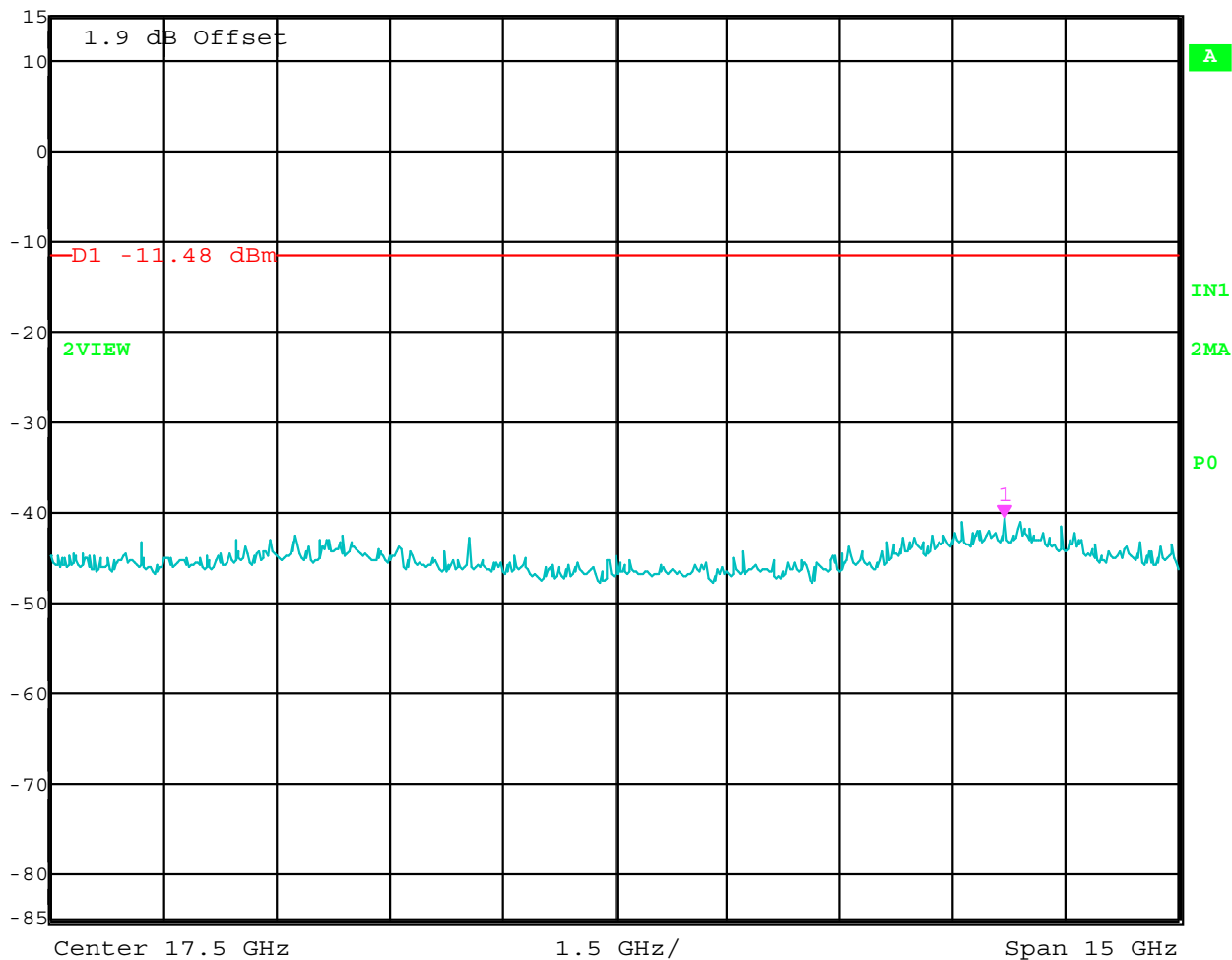


Date: 29.MAR.2004 20:30:42

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



Ref Lvl	Marker 1 [T2]	RBW	100 kHz	RF Att	40 dB
15 dBm	-40.70 dBm	VBW	300 kHz		
	22.68537074 GHz	SWT	3.8 s	Unit	dBm

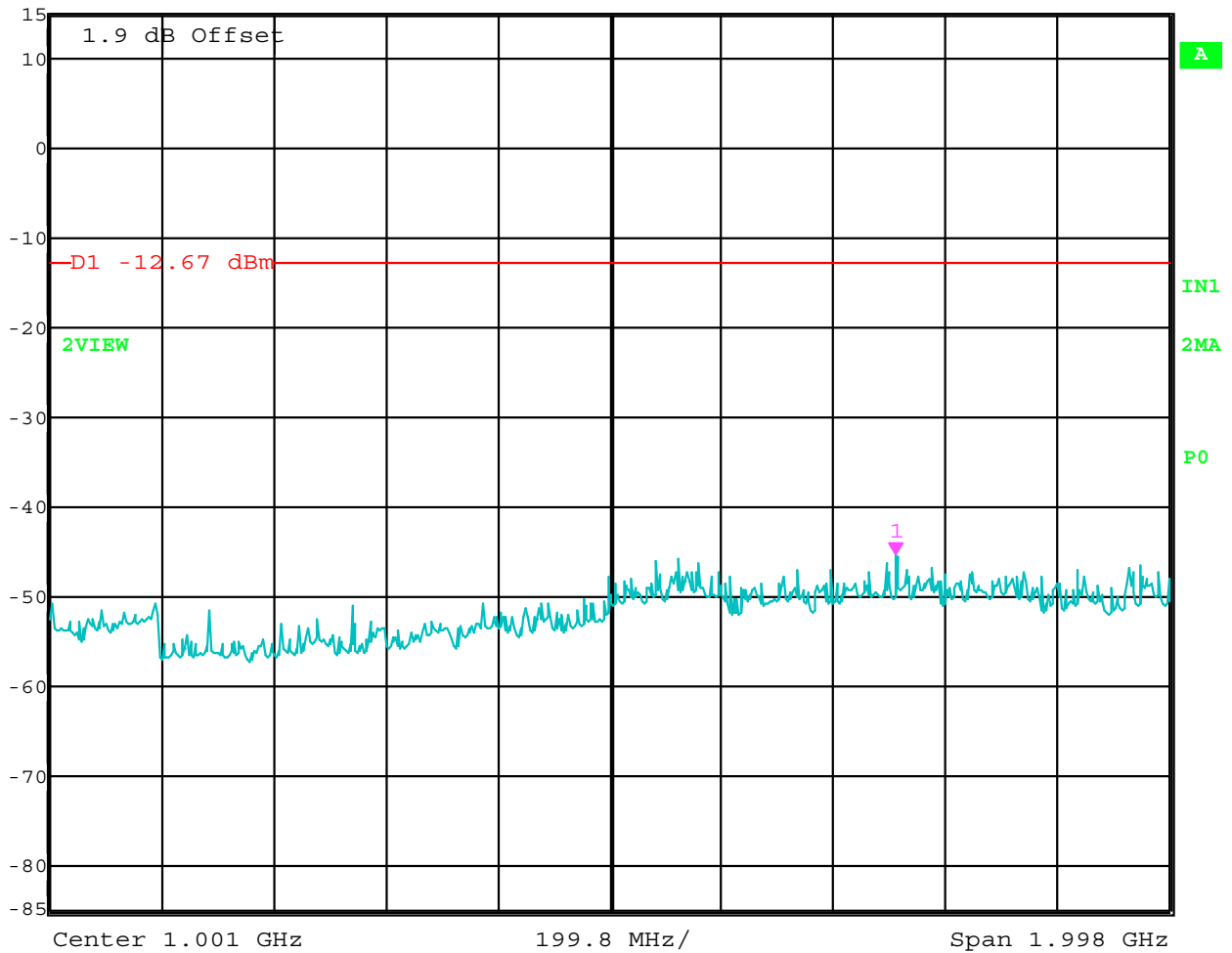


Date: 29.MAR.2004 20:31:32

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -45.46 dBm VBW 300 kHz
15 dBm 1.51151102 GHz SWT 700 ms Unit dBm

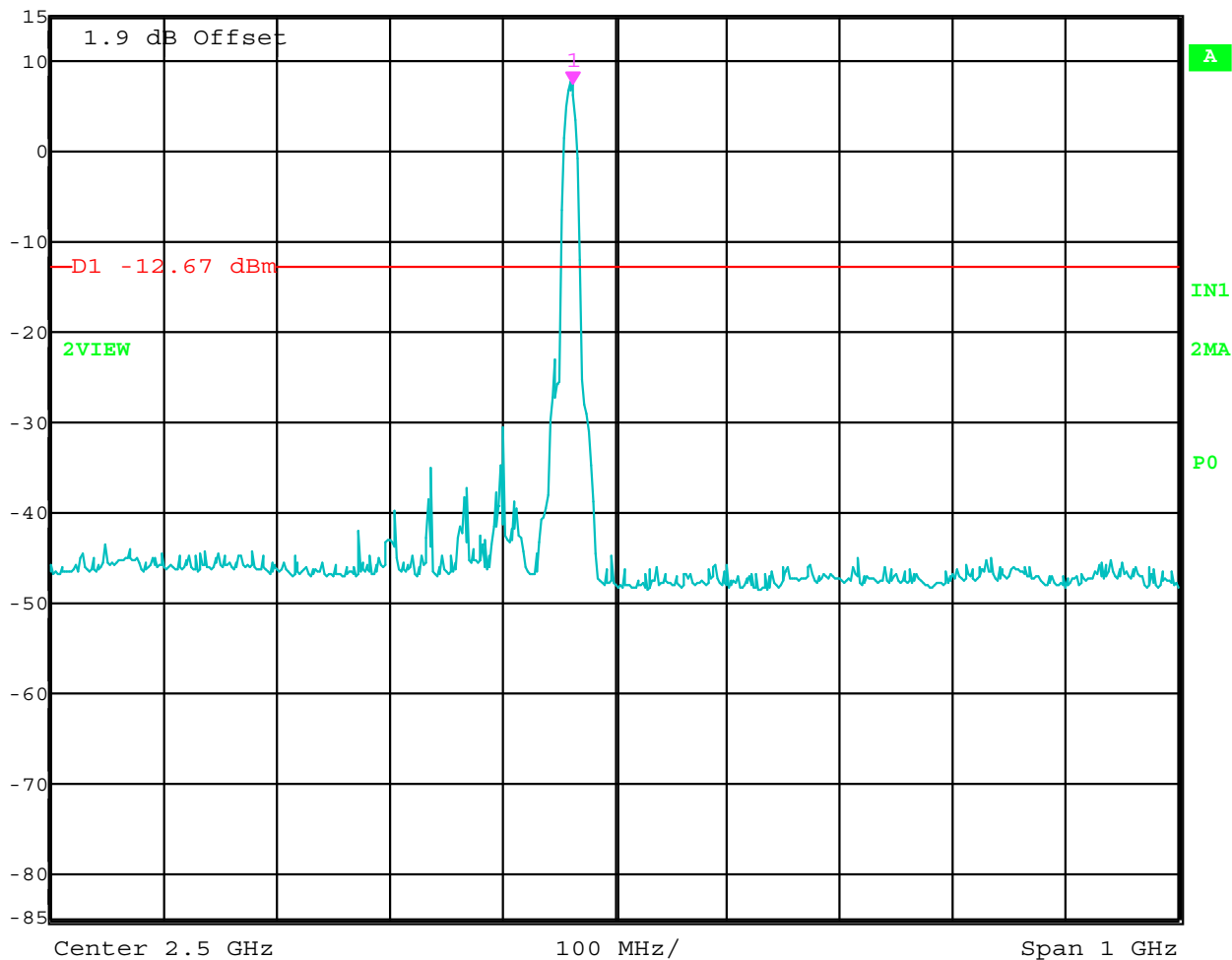


Date: 29.MAR.2004 21:39:59

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl 7.33 dBm VBW 300 kHz
15 dBm 2.46200000 GHz SWT 250 ms Unit dBm

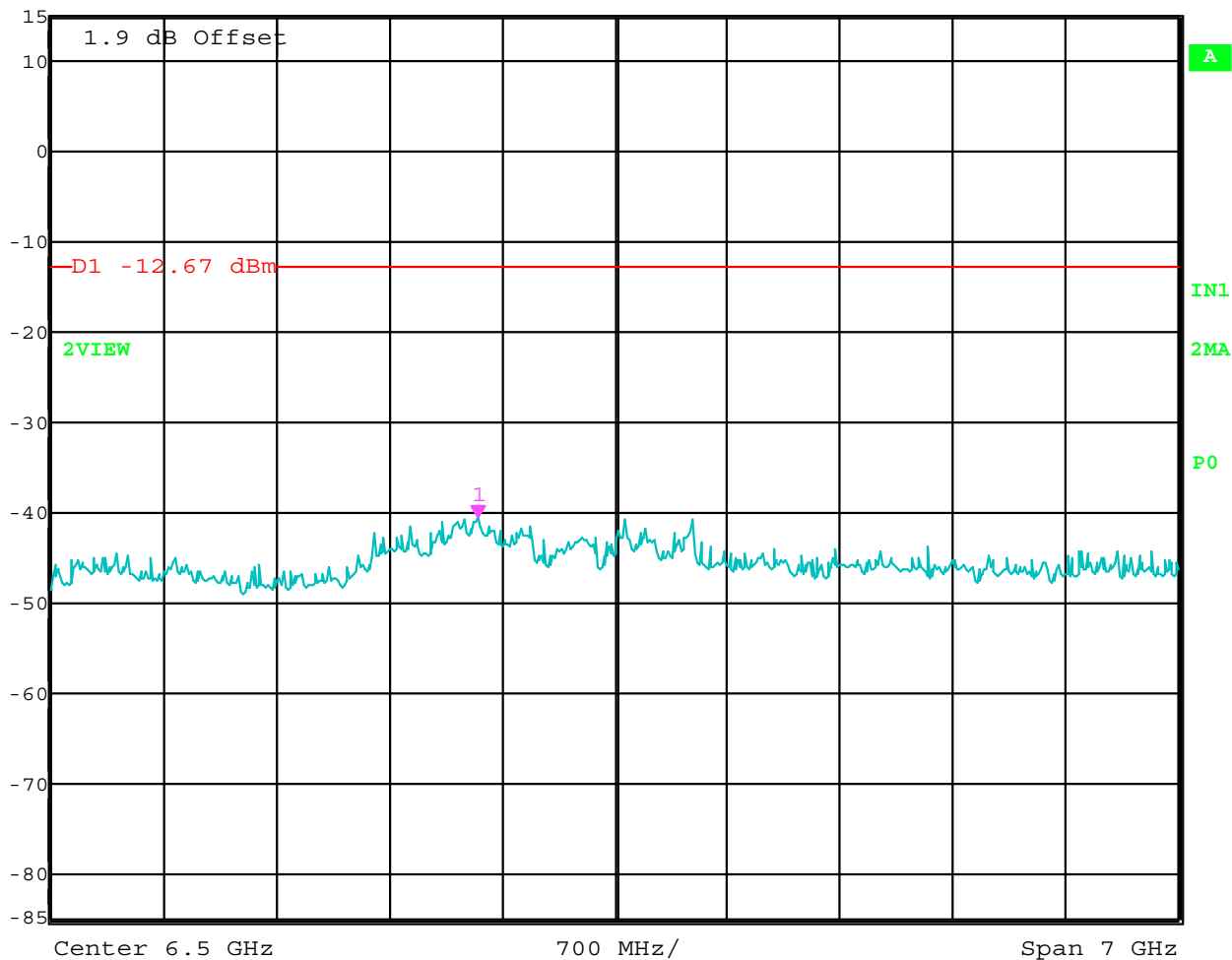


Date: 29.MAR.2004 21:39:05

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



Marker 1 [T2] RBW 100 kHz RF Att 40 dB
Ref Lvl -40.67 dBm VBW 300 kHz
15 dBm 5.65130261 GHz SWT 1.75 s Unit dBm



Date: 29.MAR.2004 21:40:38

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



Marker 1 [T2]

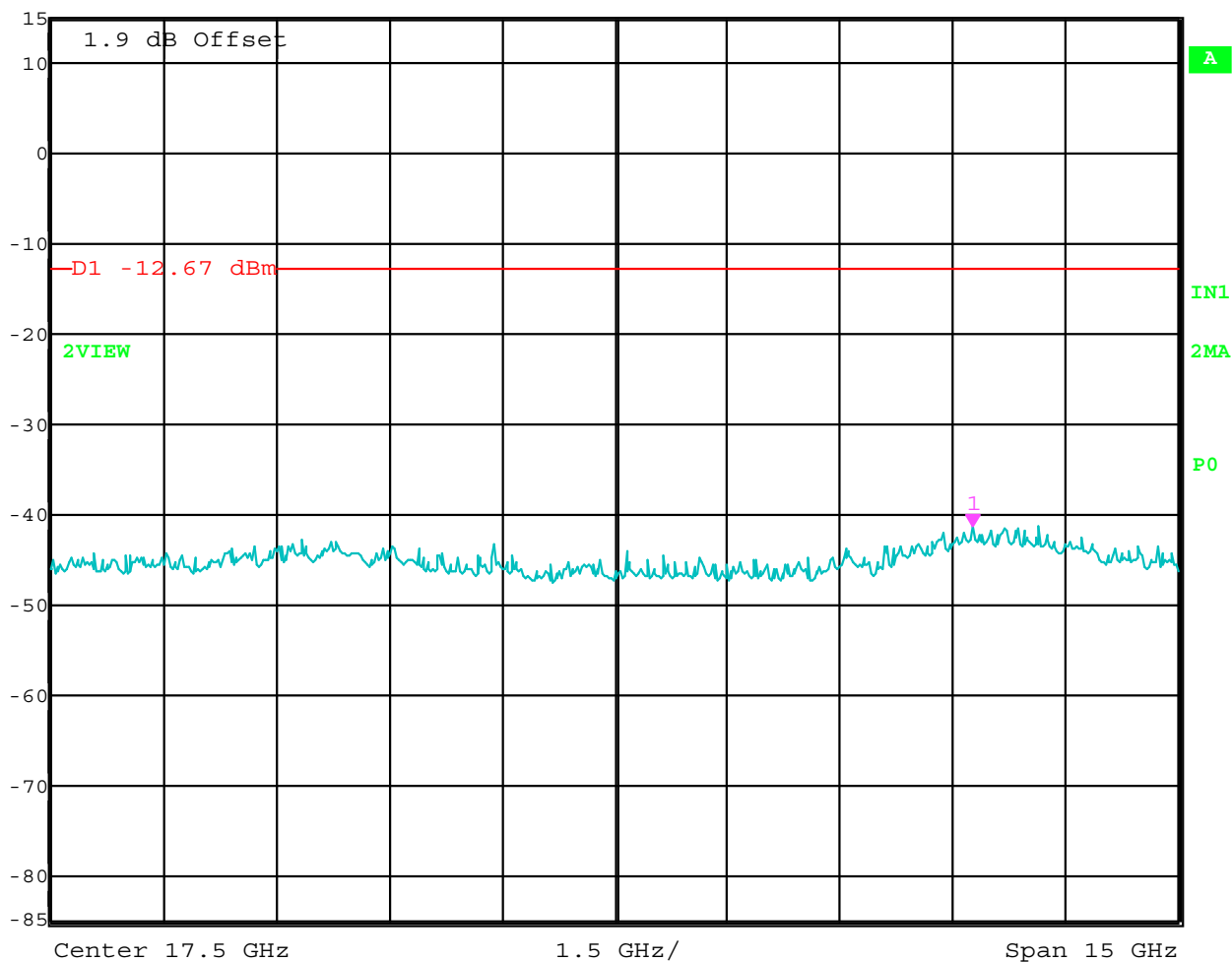
RBW 100 kHz RF Att 40 dB

Ref Lvl -41.31 dBm

VBW 300 kHz

15 dBm 22.26452906 GHz

SWT 3.8 s Unit dBm



Date: 29.MAR.2004 21:41:25

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



Marker 1 [T2]

RBW 100 kHz RF Att 40 dB

Ref Lvl -45.49 dBm

VBW 300 kHz

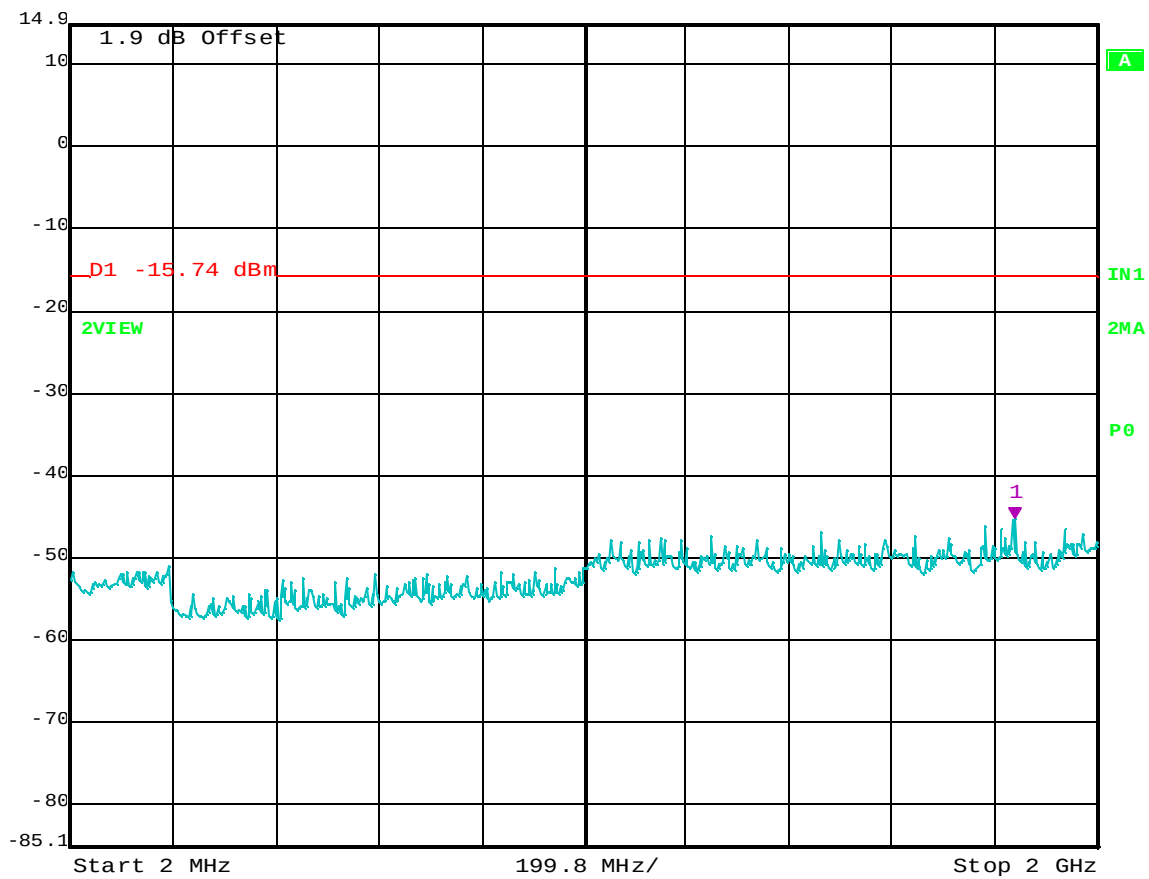
14.9 dBm

1.83983968 GHz

SWT 700 ms

Unit

dBm

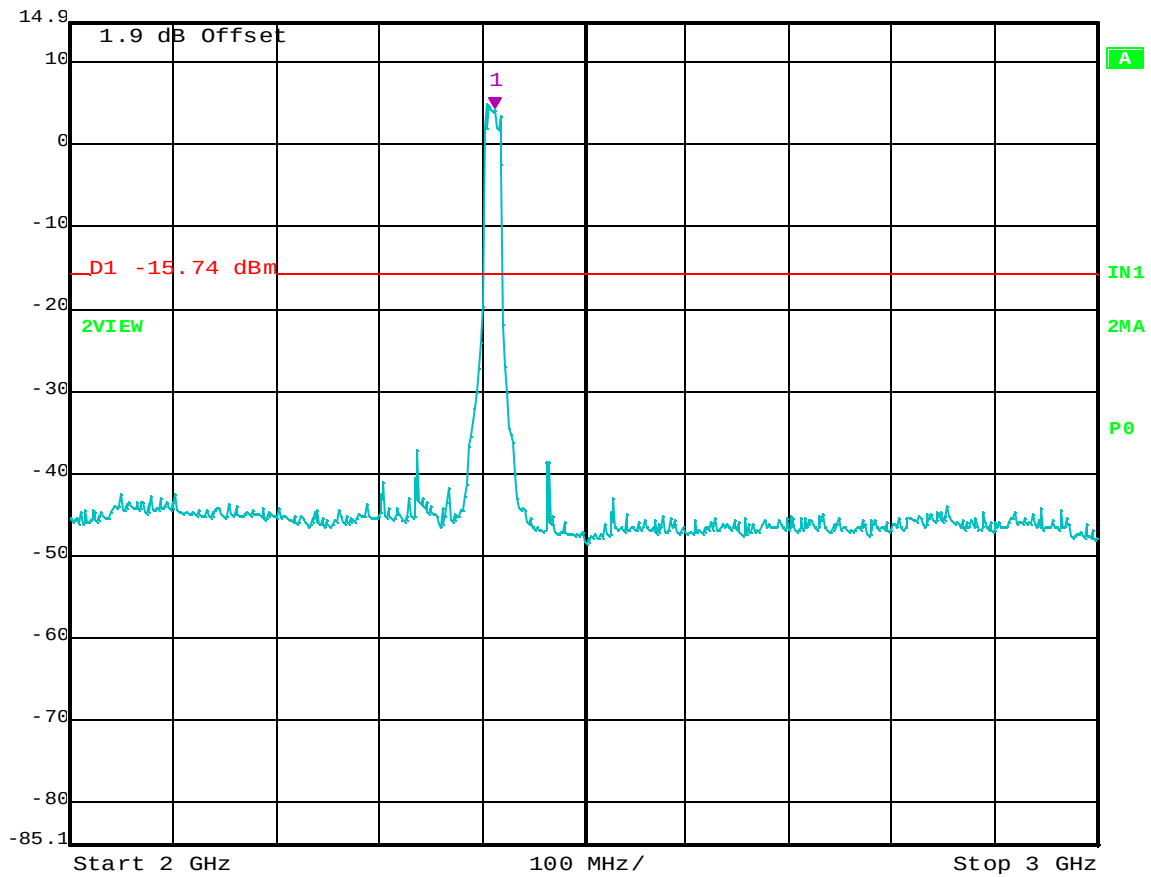


Date: 31.MAR.2004 12:07:28

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



Ref Lvl 14.9 dBm
Marker 1 [T2] 4.26 dBm
2.41200000 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 250 ms Unit dBm



Date: 31.MAR.2004 12:06:53

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



Marker 1 [T2]

RBW 100 kHz RF Att 40 dB

Ref Lvl -39.56 dBm

VBW 300 kHz

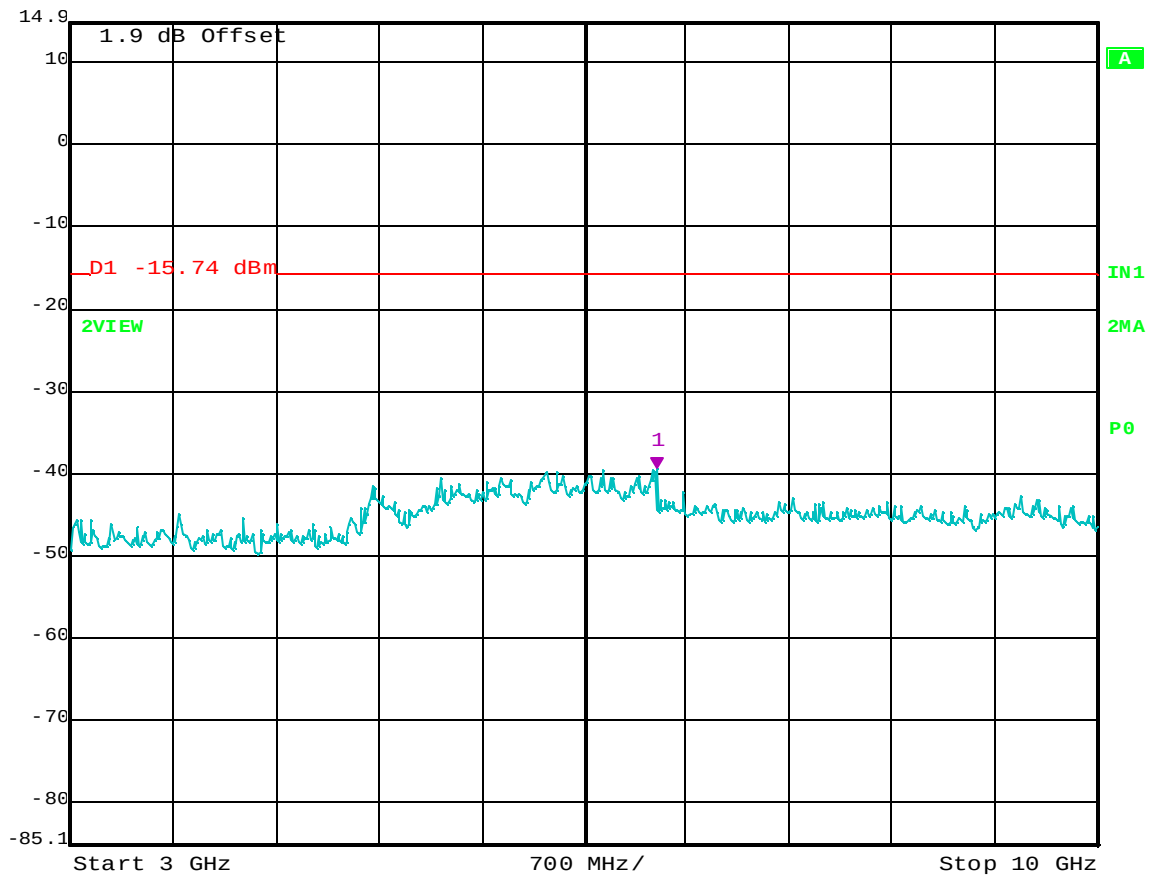
14.9 dBm

6.99799599 GHz

SWT 1.75 s

Unit

dBm



Date: 31.MAR.2004 12:08:04

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



Marker 1 [T2]

RBW 100 kHz RF Att 40 dB

Ref Lvl -40.71 dBm

VBW 300 kHz

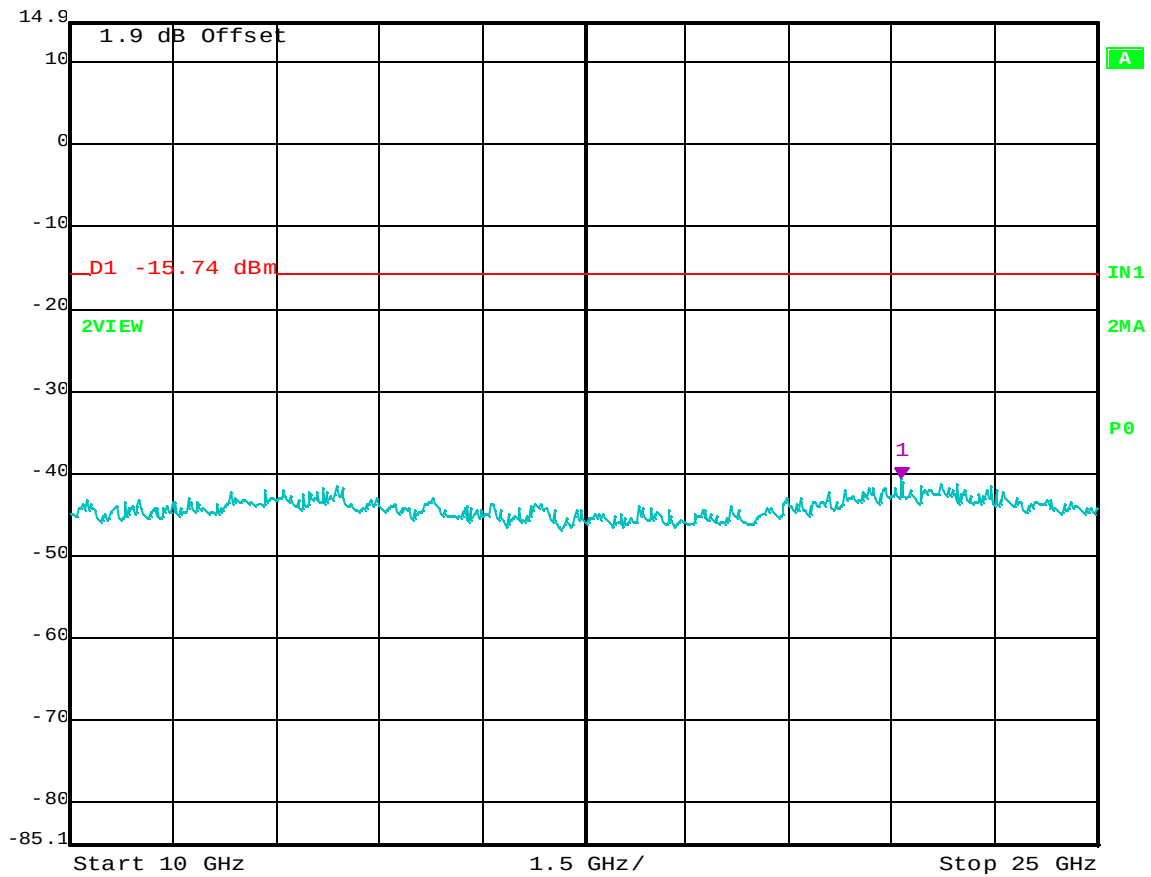
14.9 dBm

22.14428858 GHz

SWT 3.8 s

Unit

dBm



Date: 31.MAR.2004 12:09:09

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



Marker 1 [T2]

RBW 100 kHz RF Att 30 dB

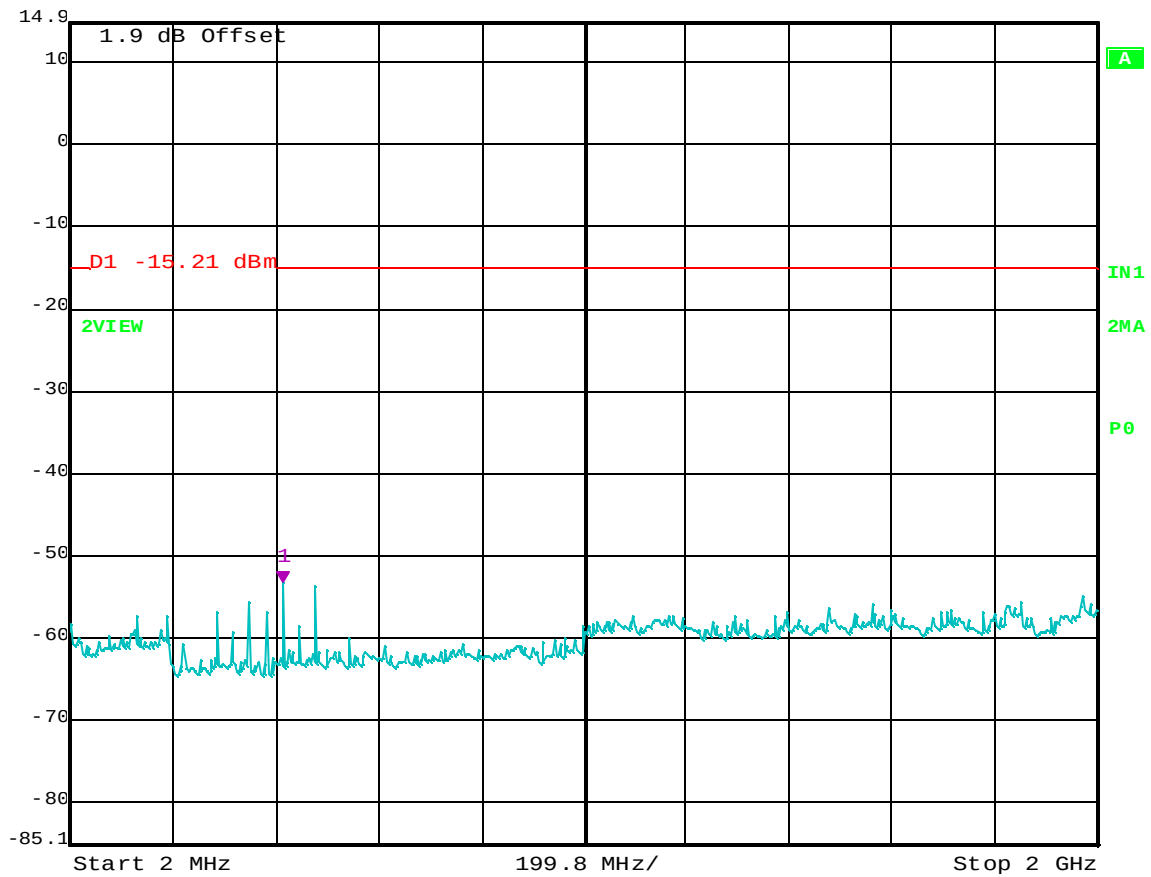
Ref Lvl -53.45 dBm

VBW 300 kHz

14.9 dBm 414.41282565 MHz

SWT 700 ms

Unit dBm



Date: 31.MAR.2004 11:04:07

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



Marker 2 [T2]

RBW 100 kHz RF Att 30 dB

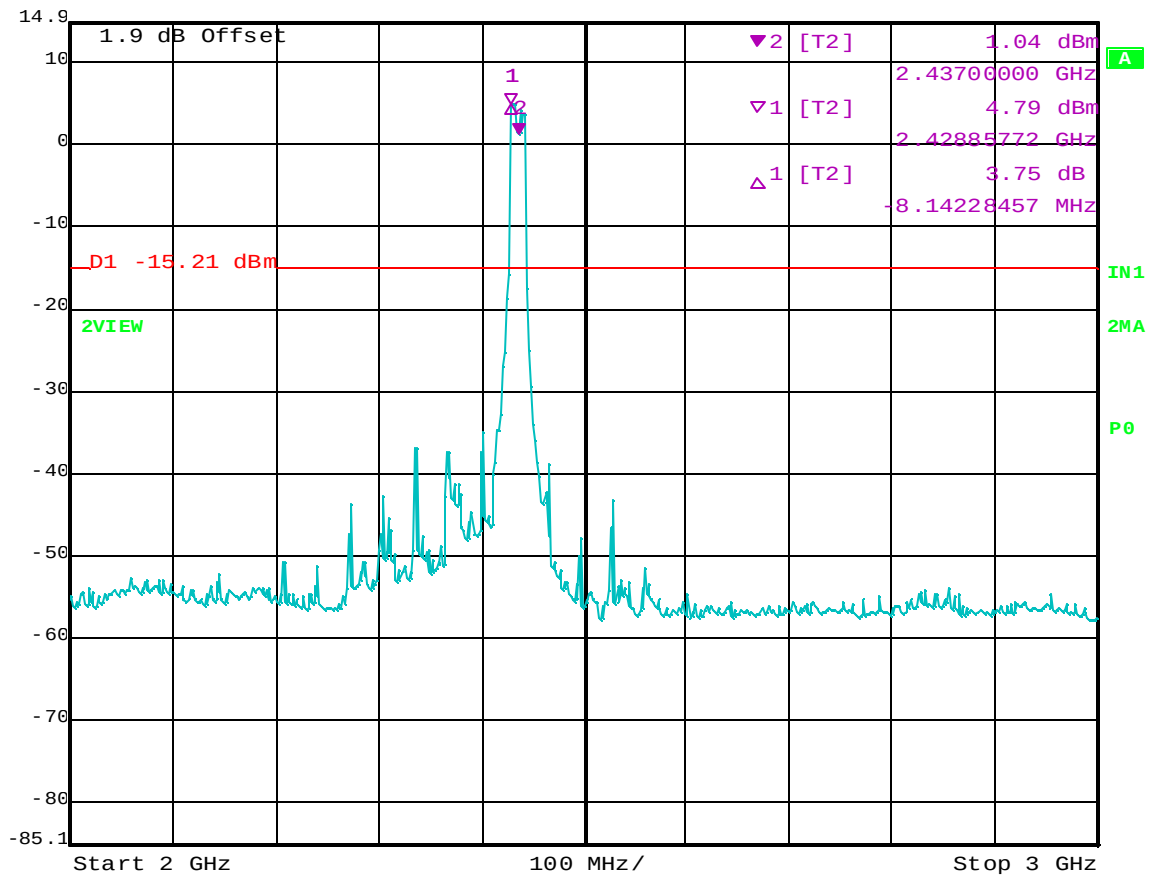
Ref Lvl 1.04 dBm

VBW 300 kHz

14.9 dBm 2.43700000 GHz

SWT 250 ms

Unit dBm



Date: 31.MAR.2004 11:02:18

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



Marker 1 [T2]

RBW 100 kHz RF Att 30 dB

Ref Lvl -46.95 dBm

VBW 300 kHz

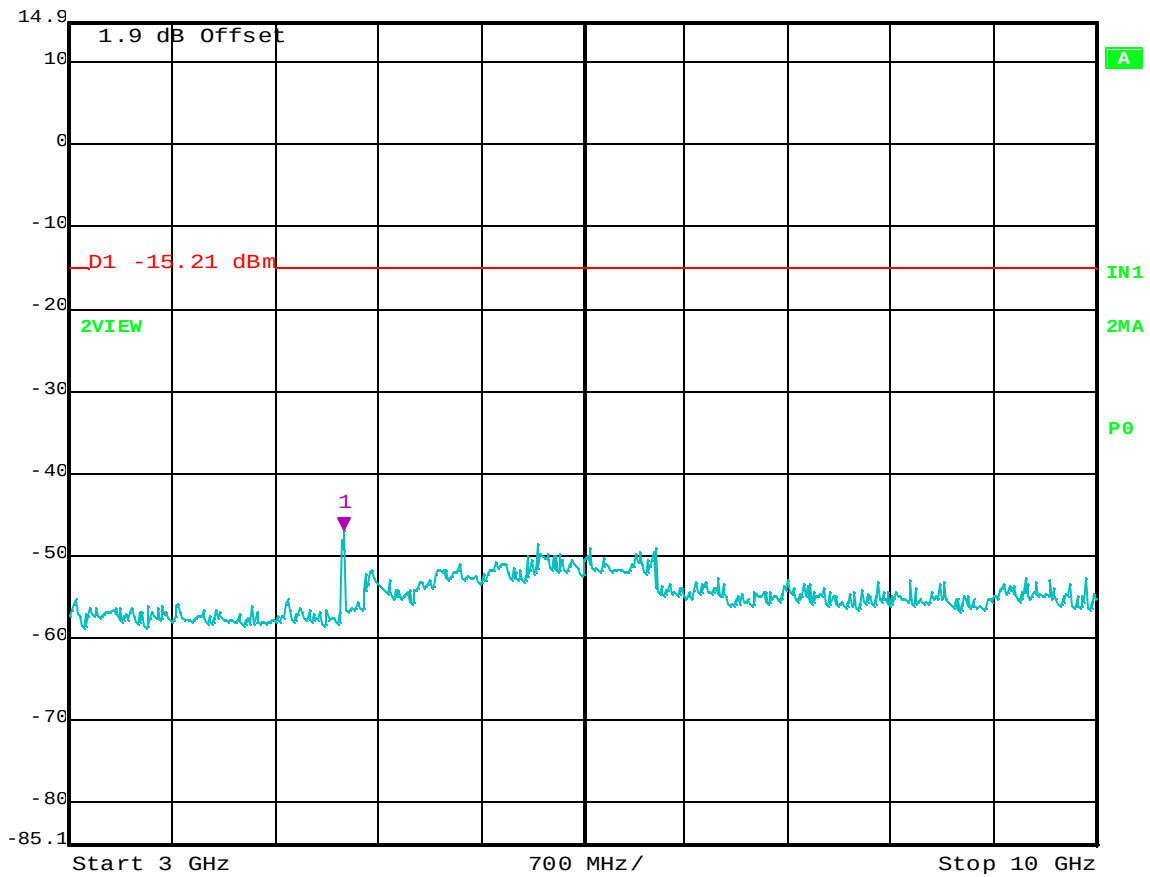
14.9 dBm

4.86573146 GHz

SWT 1.75 s

Unit

dBm



Date: 31.MAR.2004 11:05:04

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



Marker 1 [T2]

RBW 100 kHz RF Att 30 dB

Ref Lvl -50.75 dBm

VBW 300 kHz

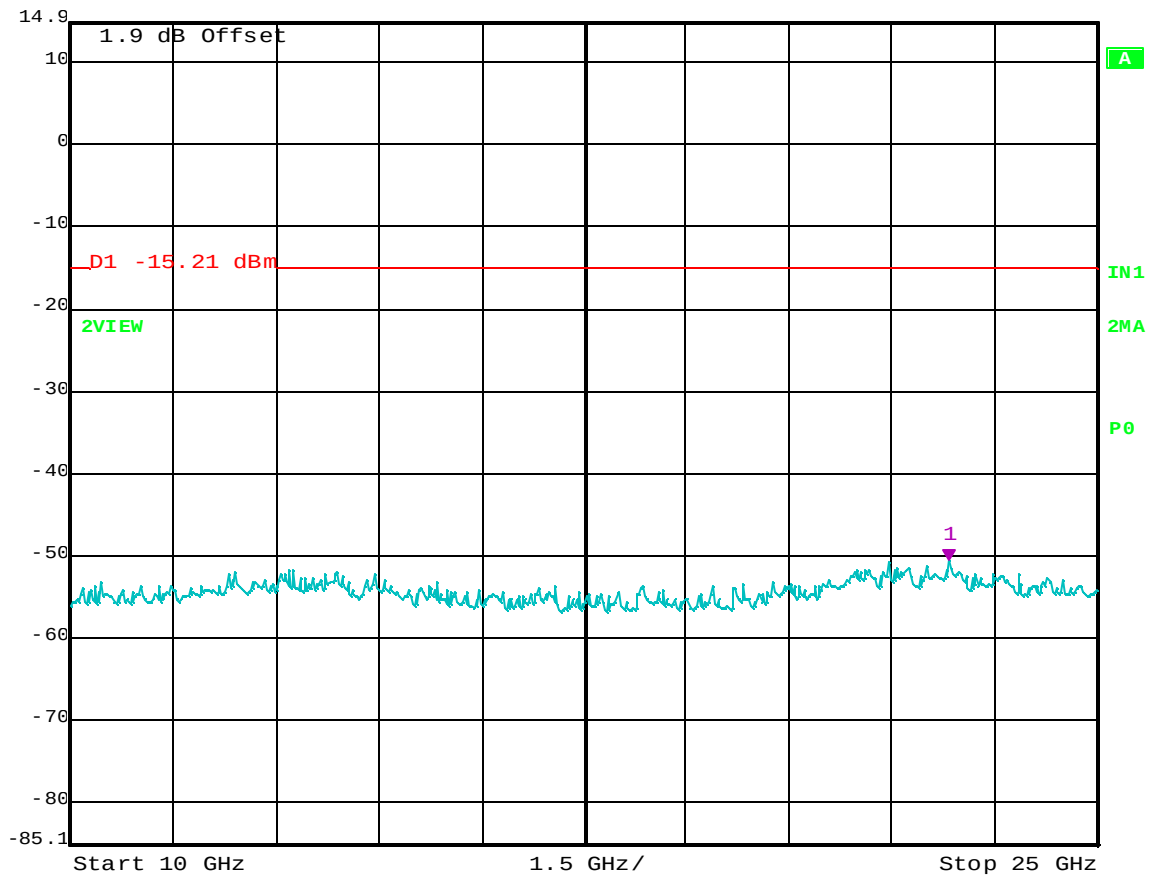
14.9 dBm

22.83567134 GHz

SWT 3.8 s

Unit

dBm



Date: 31.MAR.2004 11:05:46

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



Marker 1 [T2]

RBW 100 kHz RF Att 40 dB

Ref Lvl -45.97 dBm

VBW 300 kHz

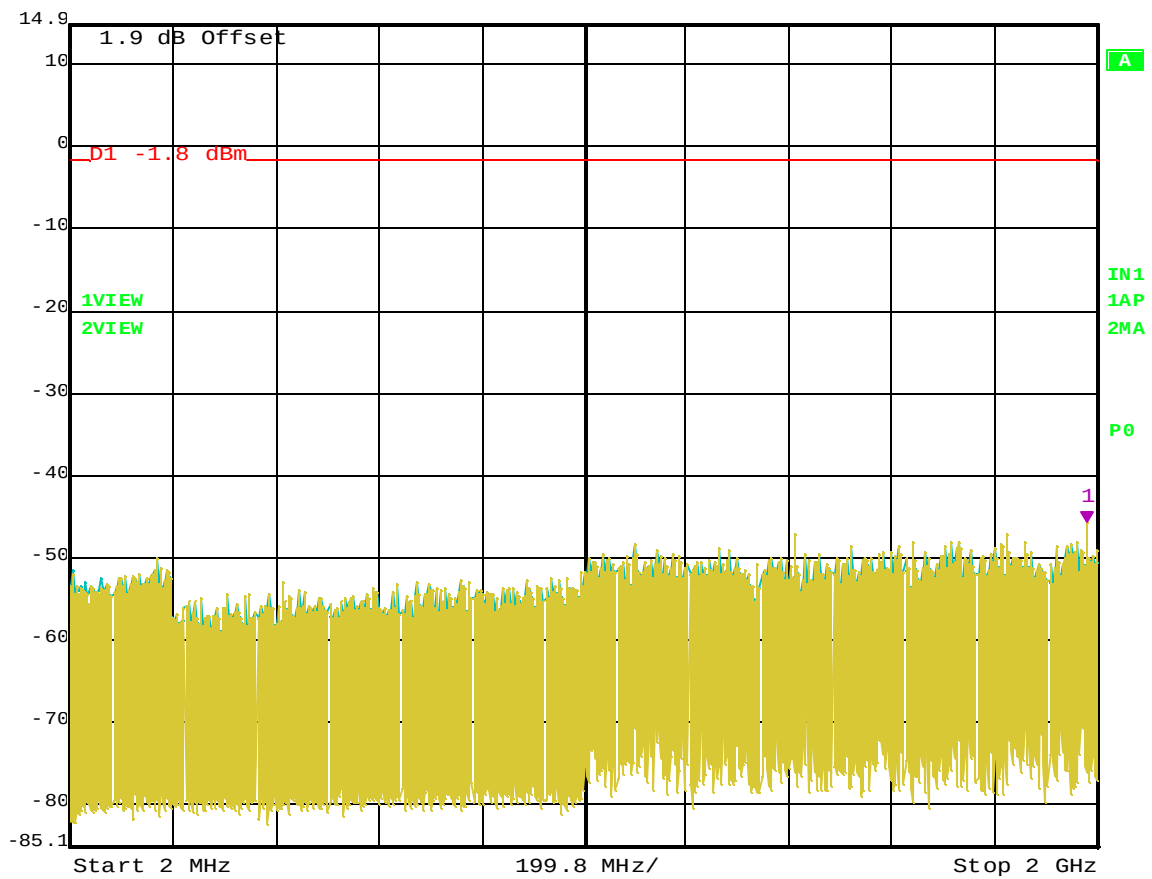
14.9 dBm

1.97997996 GHz

SWT 700 ms

Unit

dBm



Date: 31.MAR.2004 11:26:46

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



Marker 1 [T2]

RBW 100 kHz RF Att 30 dB

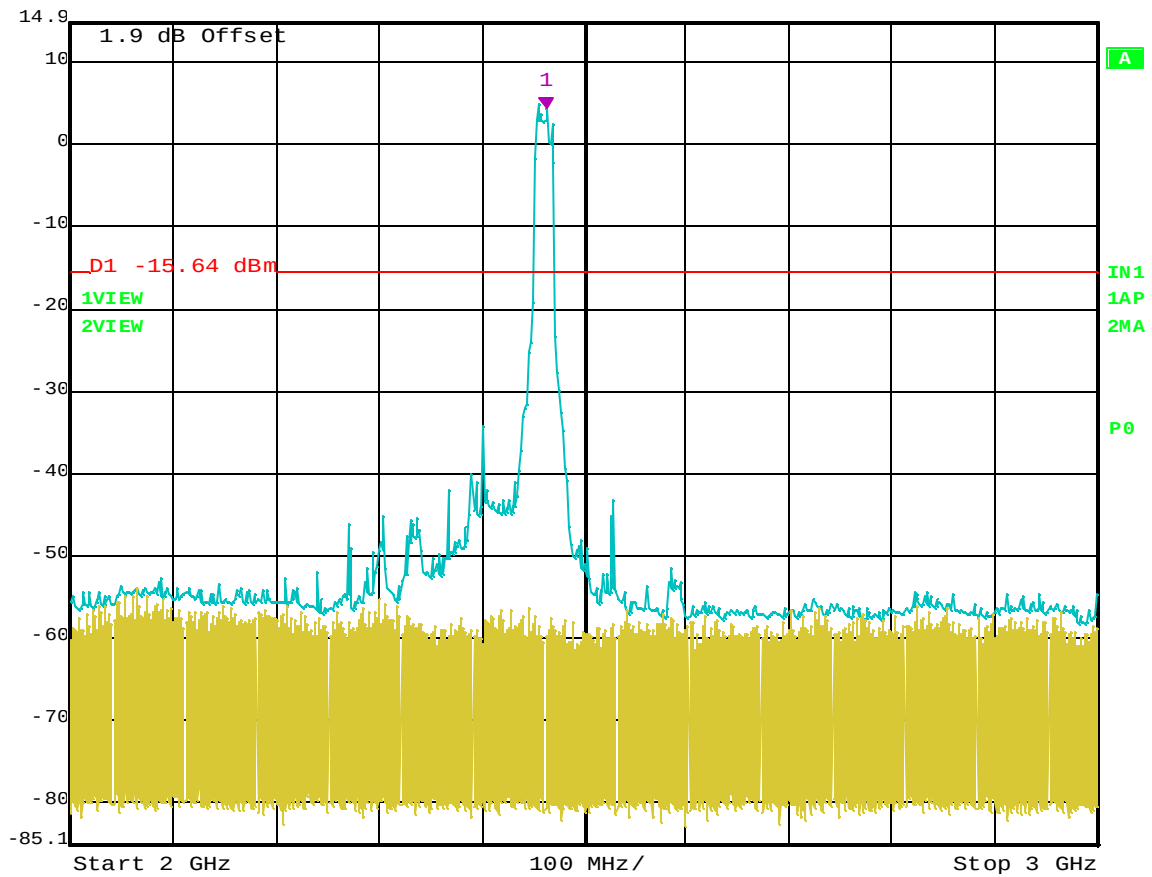
Ref Lvl 4.36 dBm

VBW 300 kHz

14.9 dBm 2.46200000 GHz

SWT 250 ms

Unit dBm

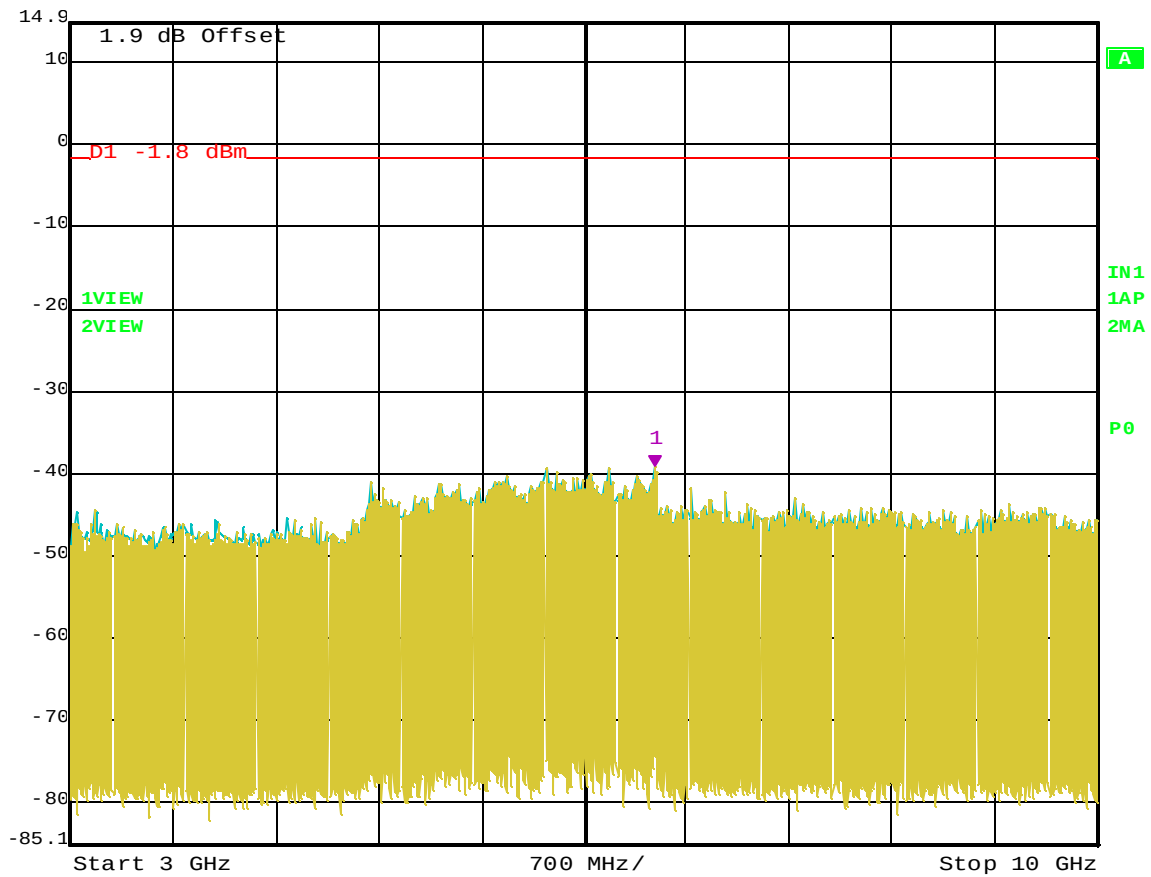


Date: 31.MAR.2004 11:25:48

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



Ref Lvl 14.9 dBm
Marker 1 [T2] -39.34 dBm
6.98396794 GHz
RBW 100 kHz RF Att 40 dB
VBW 300 kHz
SWT 1.75 s Unit dBm



Date: 31.MAR.2004 11:27:31

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



Marker 1 [T2]

RBW 100 kHz RF Att 40 dB

Ref Lvl -41.14 dBm

VBW 300 kHz

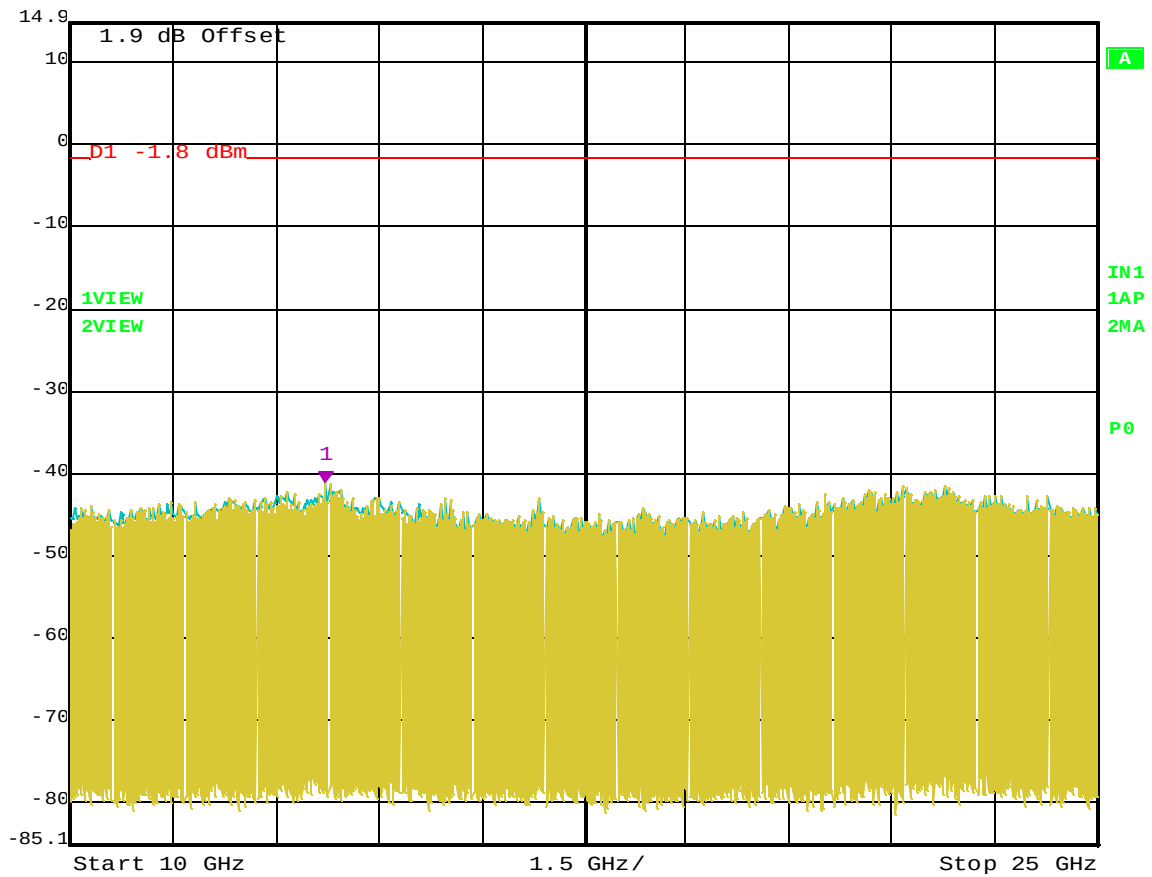
14.9 dBm

13.72745491 GHz

SWT 3.8 s

Unit

dBm



Date: 31.MAR.2004 11:28:24

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

***EMISSIONS PRODUCED BY
THE INTENTIONAL RADIATOR
IN NON-RESTRICTED BANDS
DATA SHEETS -- 802.11 a MODE***

CMC
EmulationEngine
Model: RCX-EE11ABG3

Date: 3/16/04
Lab: B
Tested By: Ben Chavez

[illegible]

CMC
EmulationEngine
Model: RCX-EE11ABG3

Date: 3/16/04
Lab: B
Tested By: Ben Chavez

[illegible]

CMC
EmulationEngine
Model: RCX-EE11ABG3

Date: 3/16/04
Lab: B
Tested By: Ben Chavez

Channel 157 - 802.11 a Mode Transmit Mode

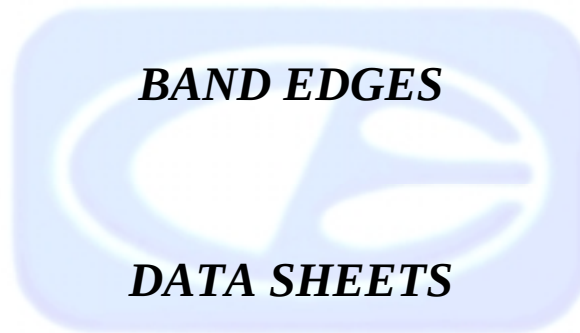
[illegible]

CMC
EmulationEngine
Model: RCX-EE11ABG3

Date: 3/16/04
Lab: B
Tested By: Ben Chavez

Channel 157 - 802.11 a Mode Transmit Mode

[illegible]



FCC 15.247

CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

Tested By: Ben Chavez

Channel 1 - 802.11 b Mode**Channel 6 - 802.11 b Mode****Channel 11 - 802.11 b Mode****Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	112.89	V	--	--	Peak	1.75	45	Fundamental of Channel 1
2412	93.32	V	--	--	Avg	1.75	45	@ 3 meters
2390	65.69	V	74	-8.31	Peak	1.75	45	
2390	45.32	V	54	-8.68	Avg	1.75	45	
2368	65.26	V	74	-8.74	Peak	1.75	45	
2368	47.77	V	54	-6.23	Avg	1.75	45	
2437	111.72	V	--	--	Peak	1.5	225	Fundamental of Channel 6
2437	93.3	V	--	--	Avg	1.5	225	@ 3 meters
2462	112.63	V	--	--	Peak	1.25	225	Fundamental of Channel 11
2462	93.78	V	--	--	Avg	1.25	225	@ 3 meters
2483.5	60.47	V	74	-13.53	Peak	1.25	225	
2483.5	41.17	V	54	-12.83	Avg	1.25	225	
2487.6	61.88	V	74	-12.12	Peak	1.25	225	
2487.6	43.28	V	54	-10.72	Avg	1.25	225	

FCC 15.247

CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

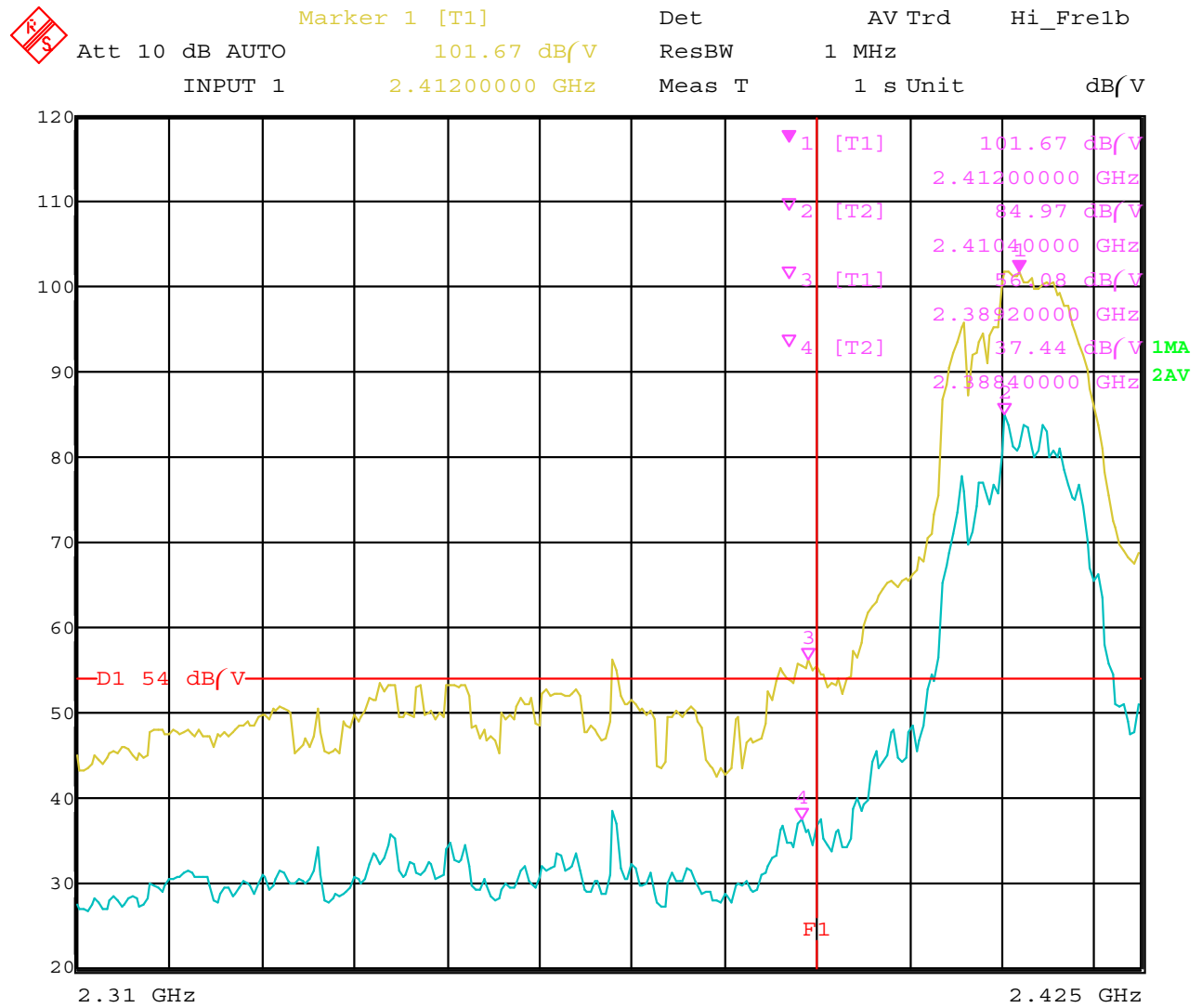
Tested By: Ben Chavez

Channel 1 - 802.11 b Mode**Channel 6 - 802.11 b Mode****Channel 11 - 802.11 b Mode****Transmit Mode**

Freq. (MHz)		Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	101.67	H	--	--	Peak	1.75	225	Fundamental of Channel 1
2412	84.97	H	--	--	Avg	1.75	225	@ 3 meters
2389.2	56.08	H	74	-17.92	Peak	1.75	225	
2389.2	37.44	H	54	-16.56	Avg	1.75	225	
2368	56.05	H	74	-17.95	Peak	1.75	225	
2368	38.49	H	54	-15.51	Avg	1.75	225	
2437	99.89	H	--	--	Peak	2	225	Fundamental of Channel 6
2437	79.83	H	--	--	Avg	2	225	@ 3 meters
2462	102.49	H	--	--	Peak	1.5	225	Fundamental of Channel 11
2462	84.12	H	--	--	Avg	1.5	225	@ 3 meters
2483.5	49.08	H	74	-24.92	Peak	1.5	225	
2483.5	31.83	H	54	-22.17	Peak	1.5	225	
2487.6	47.97	H	74	-26.03	Peak	1.5	225	
2487.6	29.97	H	54	-24.03	Peak	1.5	225	

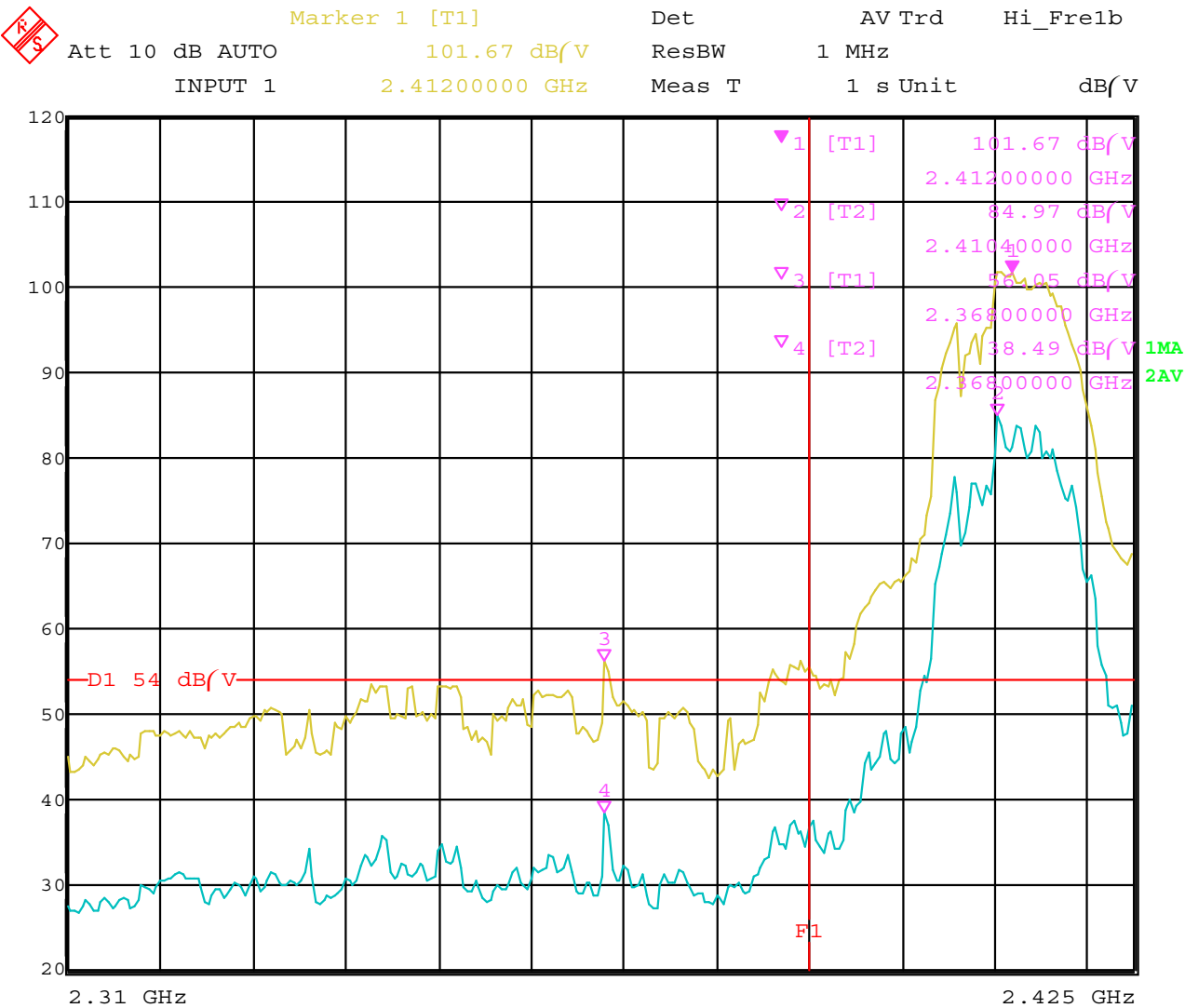
Ch.1 - Band Edge - Horizontal Polarization – Plot 1

B-Mode Band Edge Plots



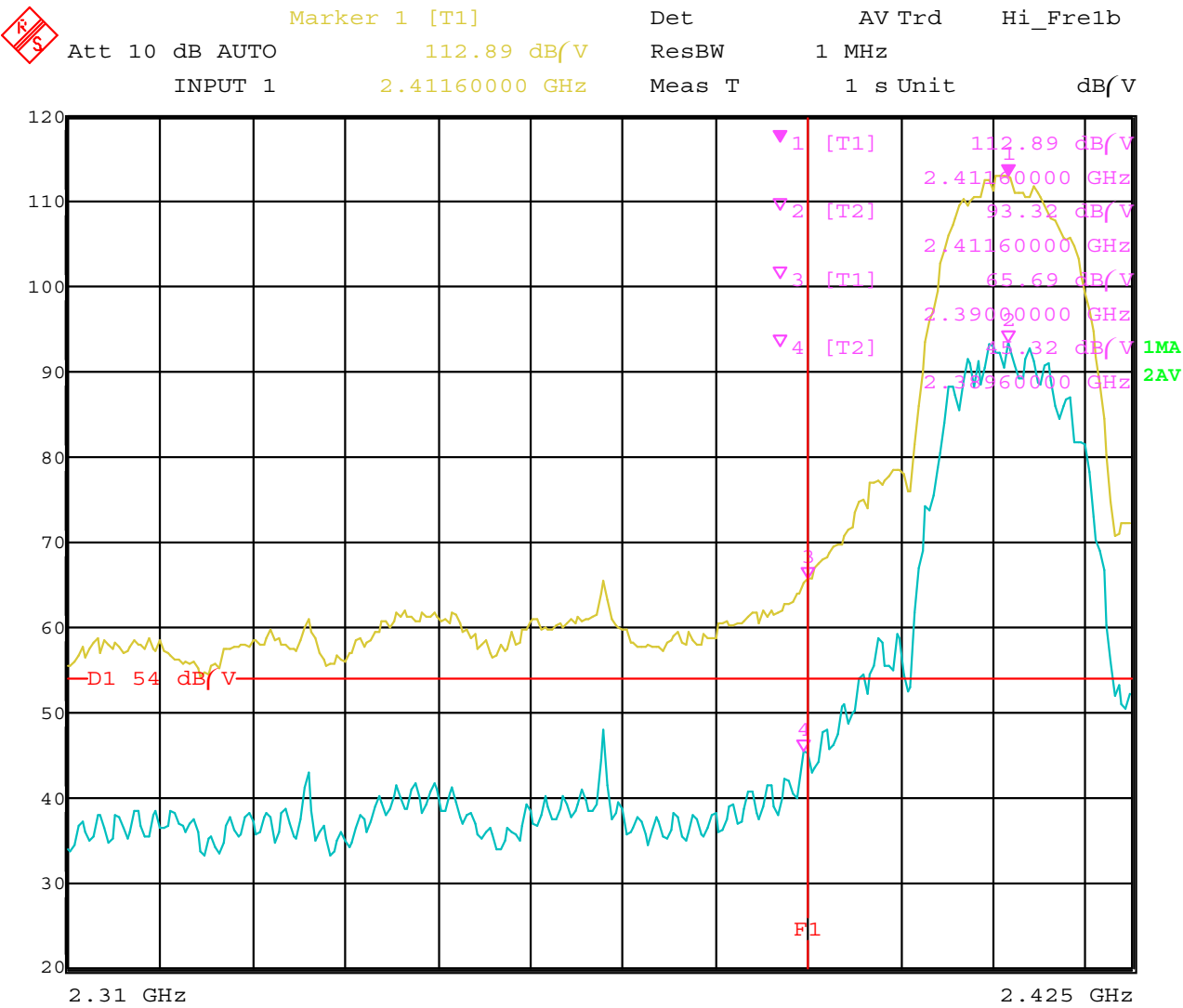
Date: 15.MAR.2004 19:30:59

Ch.1 - Band Edge - Horizontal Polarization – Plot 2



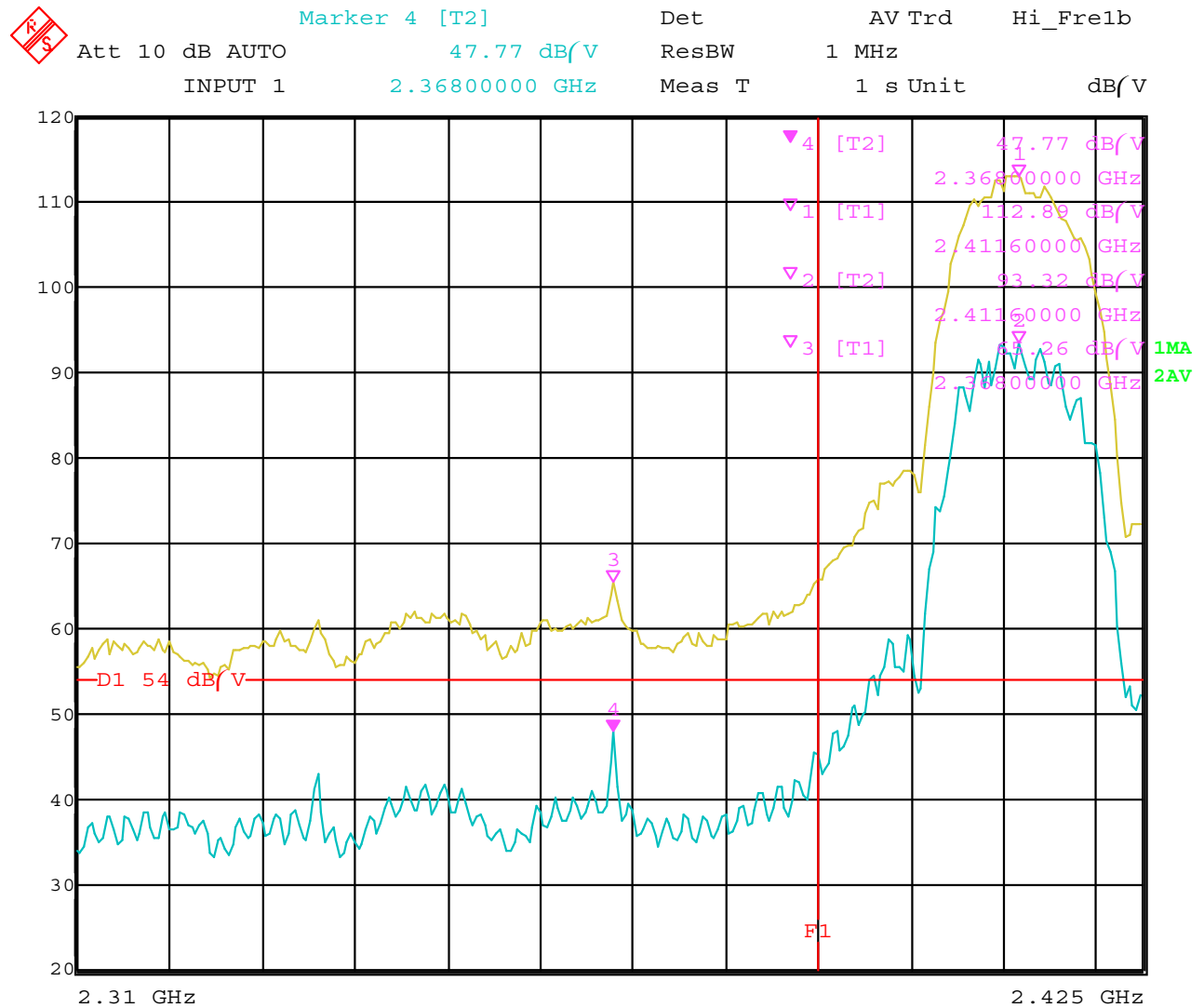
Date: 15.MAR.2004 19:31:52

Ch.1 - Band Edge - Vertical Polarization – Plot 1



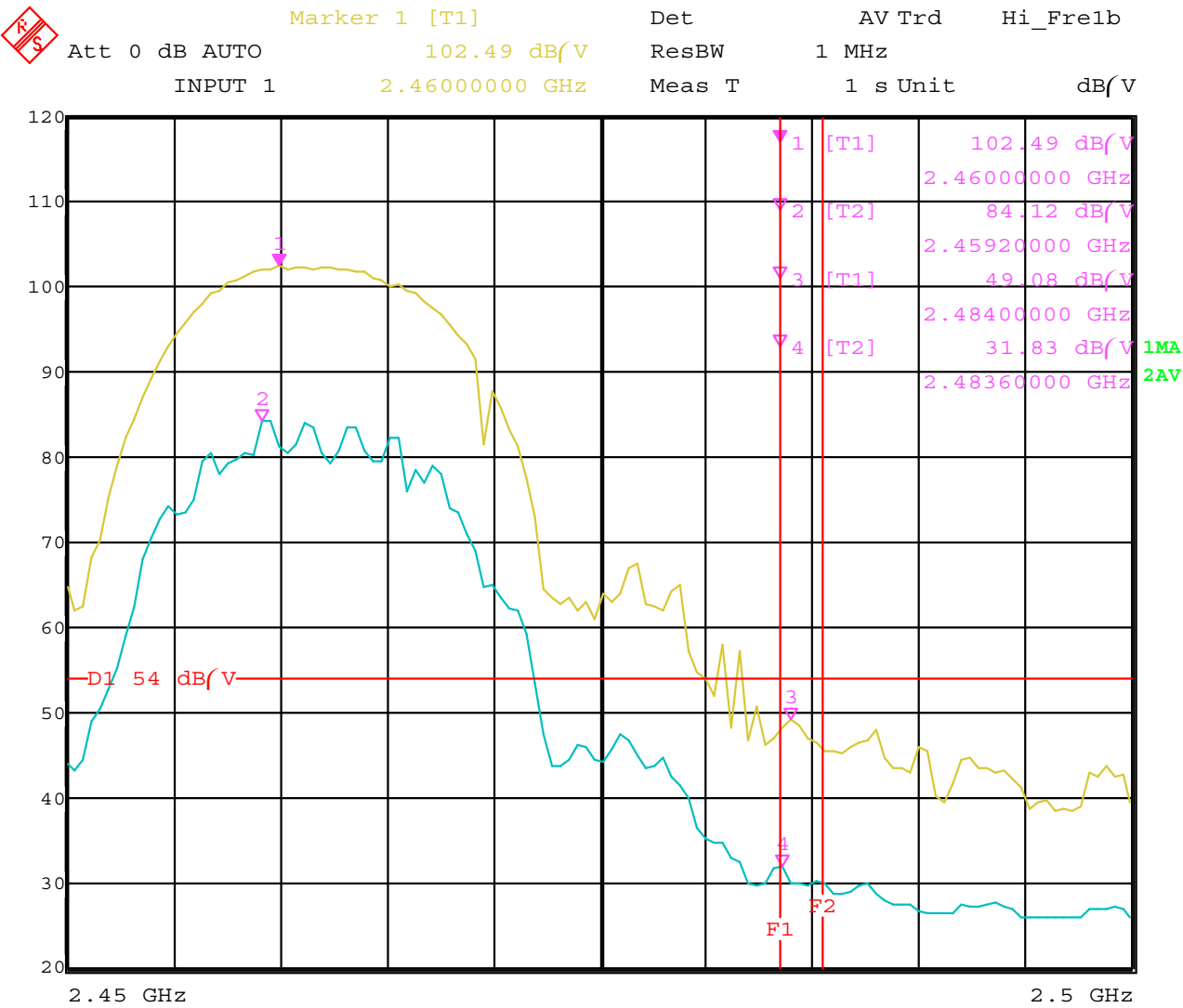
Date: 15.MAR.2004 19:17:17

Ch.1 - Band Edge - Vertical Polarization – Plot 2



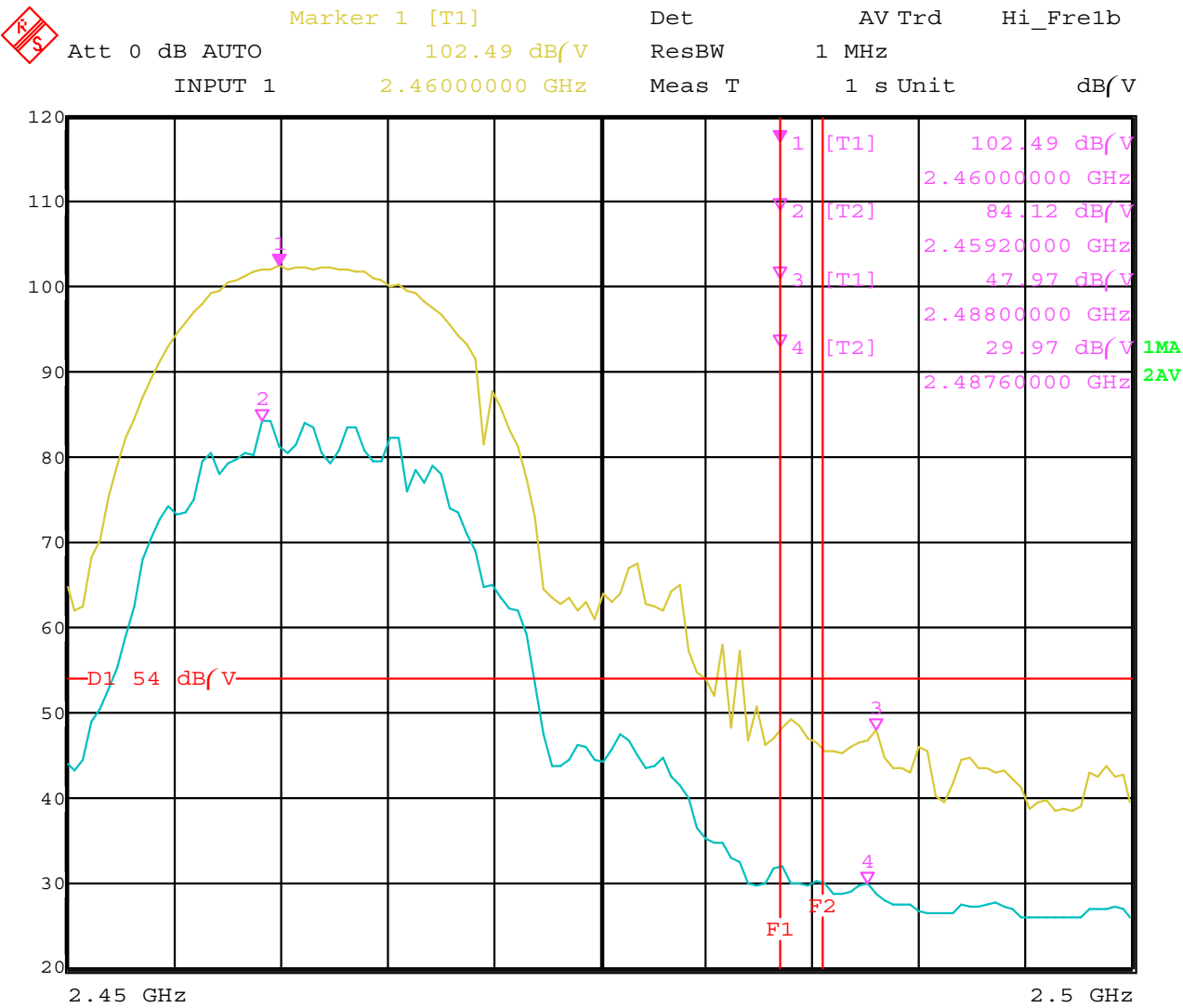
Date: 15.MAR.2004 19:18:00

Ch.11 - Band Edge - Horizontal Polarization – Plot 1



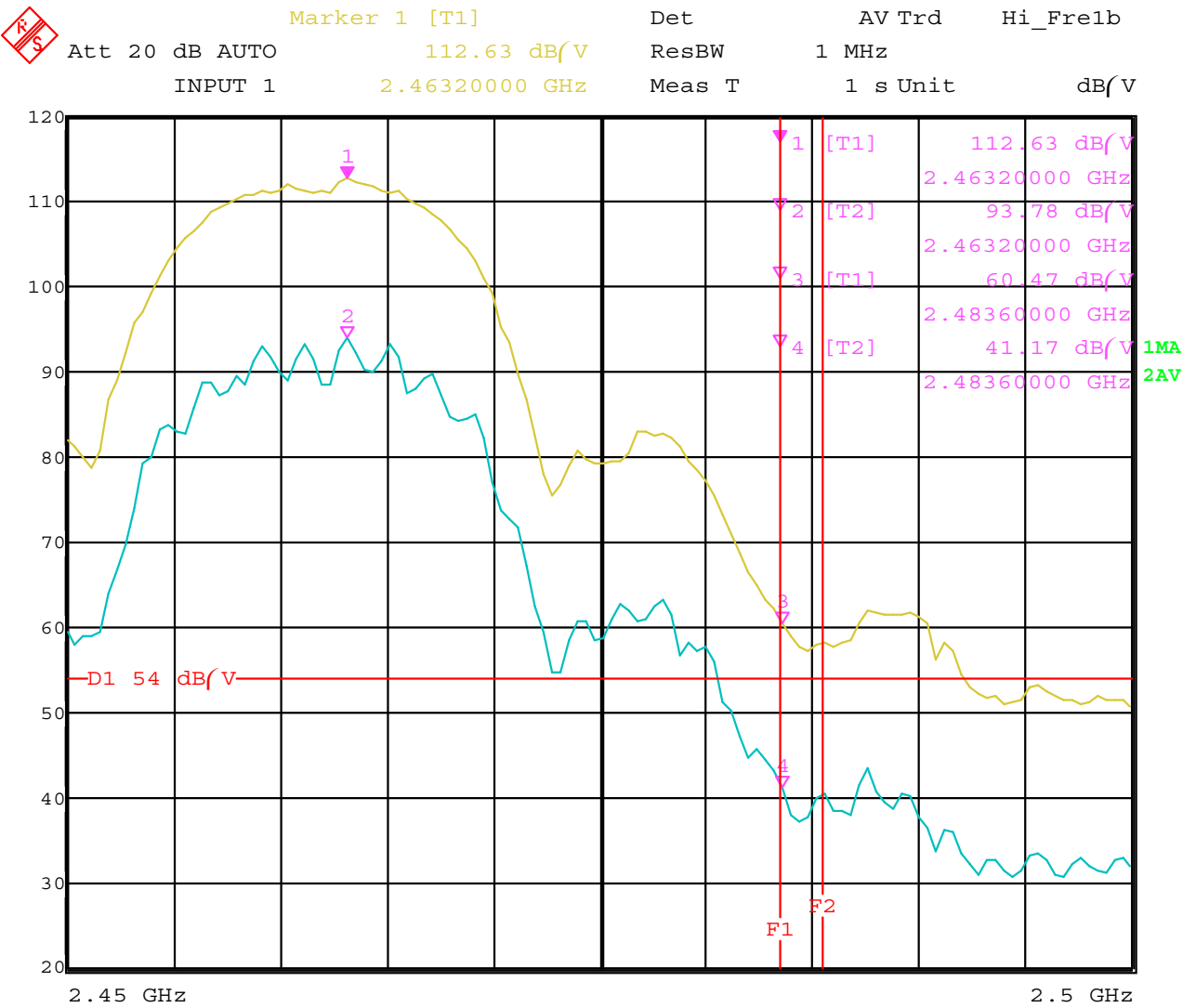
Date: 15.MAR.2004 22:43:28

Ch.11 - Band Edge - Horizontal Polarization – Plot 2



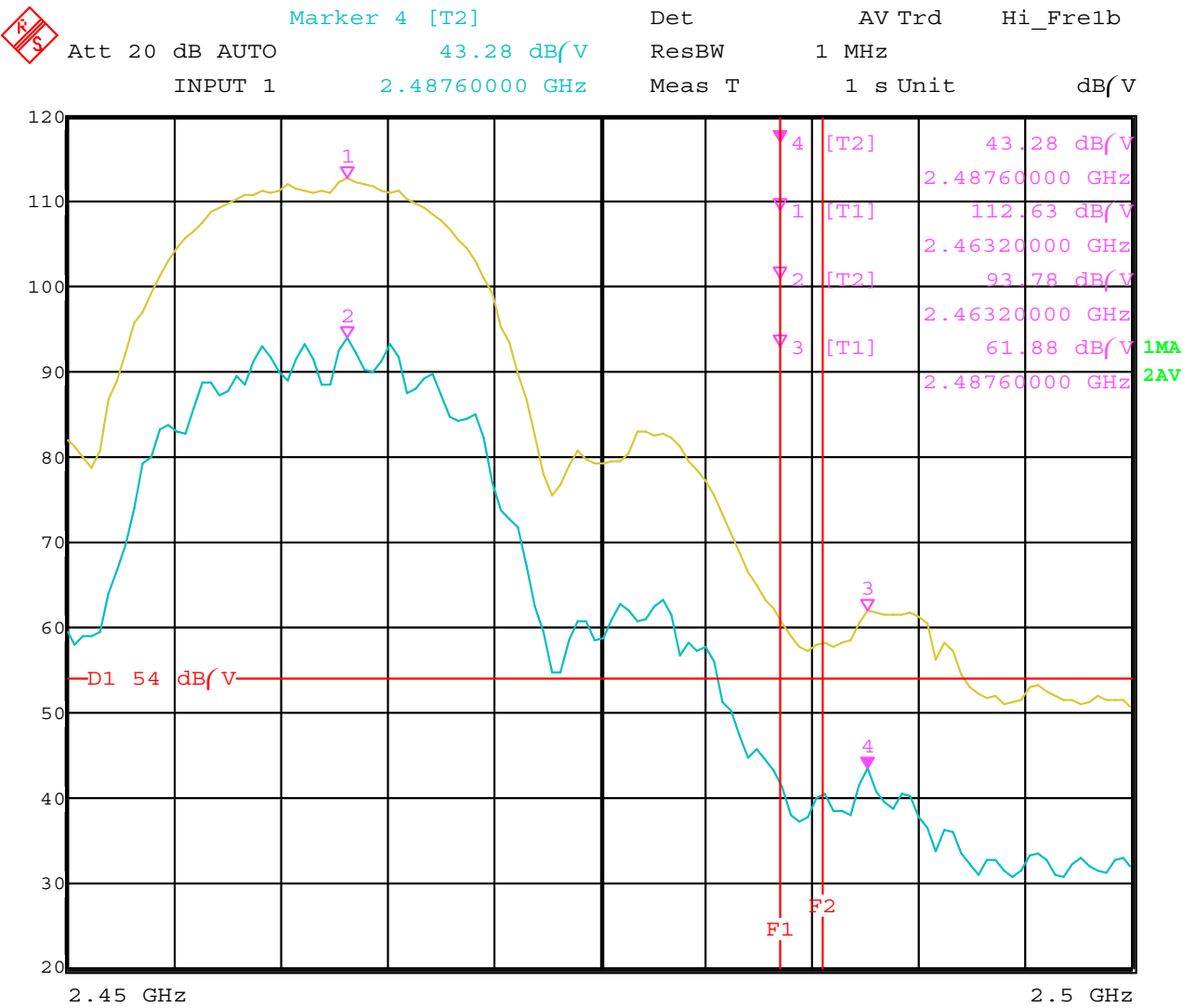
Date: 15.MAR.2004 22:44:23

Ch.11 - Band Edge - Vertical Polarization – Plot 1



Date: 15.MAR.2004 22:36:02

Ch.11 - Band Edge - Vertical Polarization – Plot 2



Date: 15.MAR.2004 22:36:44

FCC 15.247

CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

Tested By: Ben Chavez

Channel 1 - 802.11 g Mode**Channel 6 - 802.11 g Mode****Channel 11 - 802.11 g Mode****Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	106.58	V	--	--	Peak	1.75	315	Fundamental of Channel 1
2412	69.55	V	--	--	Avg	1.75	315	@ 3 meters
2390	71.14	V	74	-2.86	Peak	1.75	315	
2390	32.1	V	54	-21.9	Avg	1.75	315	
2367.8	61.82	V	74	-12.18	Peak	1.75	315	
2367.8	37.33	V	54	-16.67	Avg	1.75	315	
2437	107.38	V	--	--	Peak	1.75	0	Fundamental of Channel 6
2437	71.8	V	--	--	Avg	1.75	0	@ 3 meters
2462	110.03	V	--	--	Peak	1.75	45	Fundamental of Channel 11
2462	74.64	V	--	--	Avg	1.75	45	@ 3 meters
2483.5	68.83	V	74	-5.17	Peak	1.75	45	
2483.5	35.48	V	54	-18.52	Avg	1.75	45	
2485.5	67.75	V	74	-6.25	Peak	1.75	45	
2485.5	34.65	V	54	-19.35	Avg	1.75	45	

FCC 15.247

CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/15/04

Lab: B

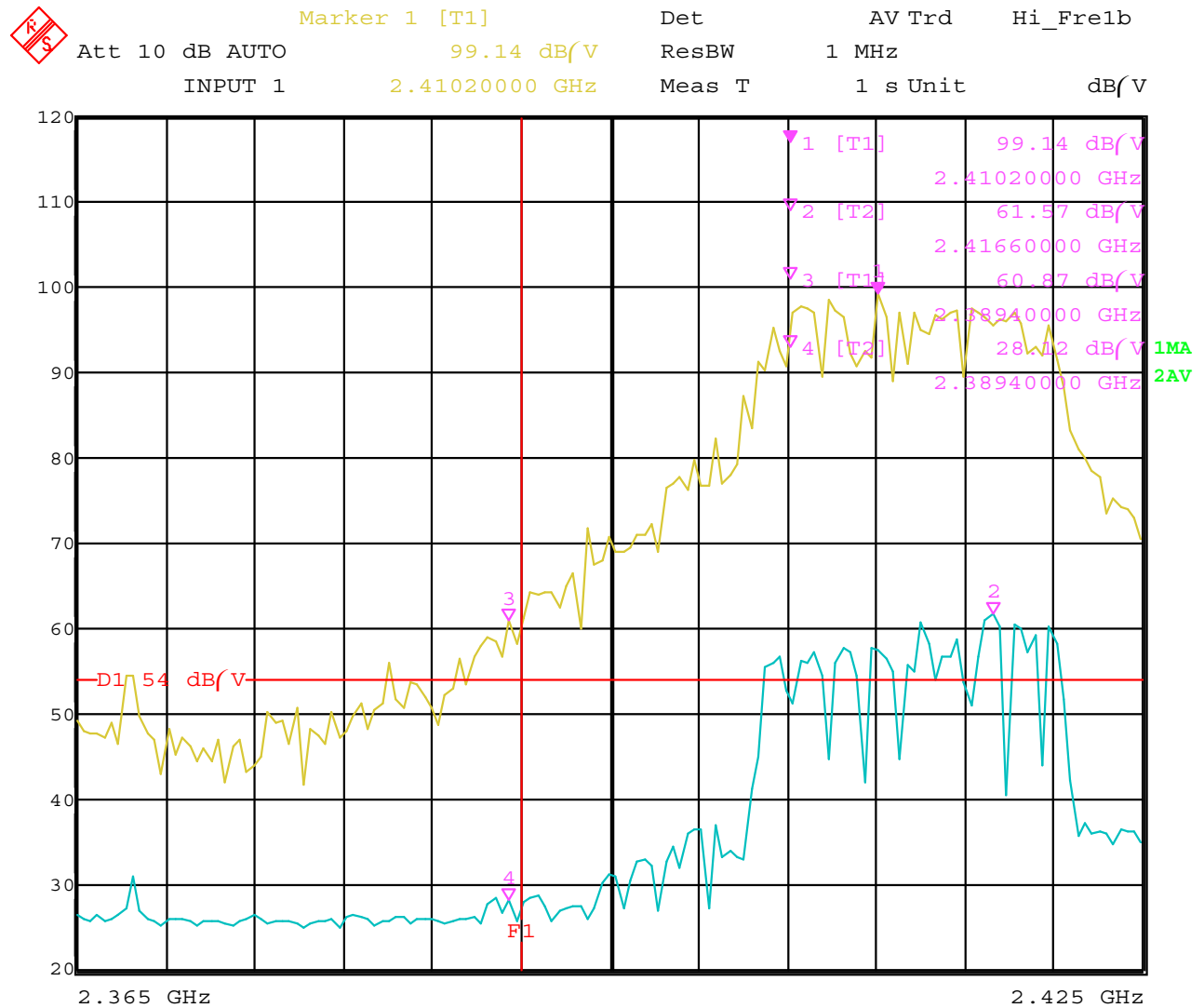
Tested By: Ben Chavez

Channel 1 - 802.11 g Mode**Channel 6 - 802.11 g Mode****Channel 11 - 802.11 g Mode****Transmit Mode**

Freq. (MHz)		Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2412	99.14	H	--	--	Peak	1.5	225	Fundamental of Channel 1
2412	61.57	H	--	--	Avg	1.5	225	@ 3 meters
2389.4	60.87	H	74	-13.13	Peak	1.5	225	
2389.4	28.12	H	54	-25.88	Avg	1.5	225	
2368.2	54.38	H	74	-19.62	Peak	1.5	225	
2368.2	30.9	H	54	-23.1	Avg	1.5	225	
2437	97.22	H	--	--	Peak	1.5	135	Fundamental of Channel 6
2437	60.92	H	--	--	Avg	1.5	135	@ 3 meters
2462	98.56	H	--	--	Peak	1.75	225	Fundamental of Channel 11
2462	63.39	H	--	--	Avg	1.75	225	@ 3 meters
2483.5	61.1	H	74	-12.9	Peak	1.75	225	
2483.5	29.08	H	54	-24.92	Peak	1.75	225	
2485.5	55.9	H	74	-18.1	Peak	1.75	225	
2485.5	28.55	H	54	-25.45	Peak	1.75	225	

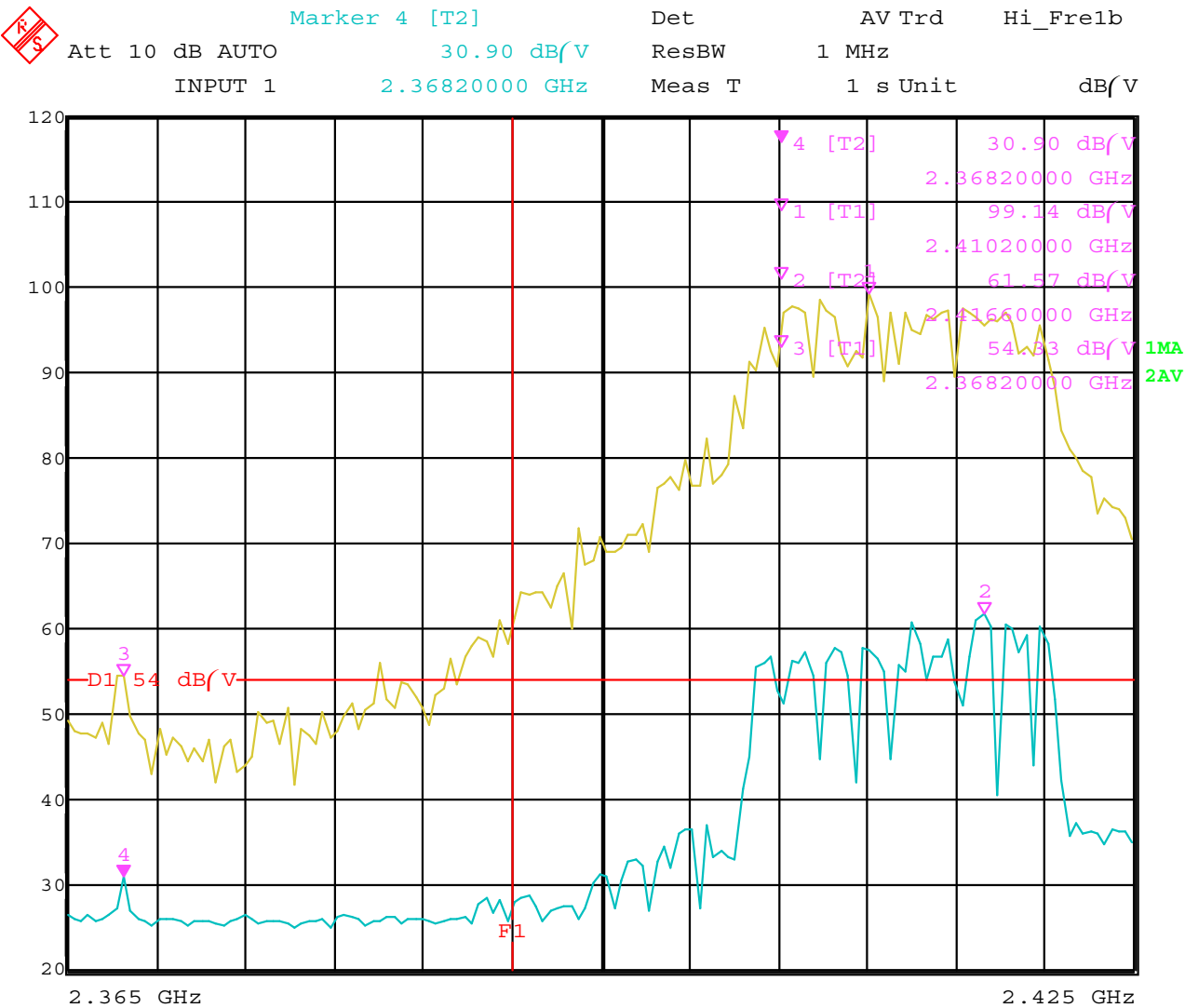
Ch.1 - Band Edge - Horizontal Polarization – Plot 1

G-Mode Band Edge Plots



Date: 15.MAR.2004 23:57:32

Ch.1 - Band Edge - Horizontal Polarization – Plot 2

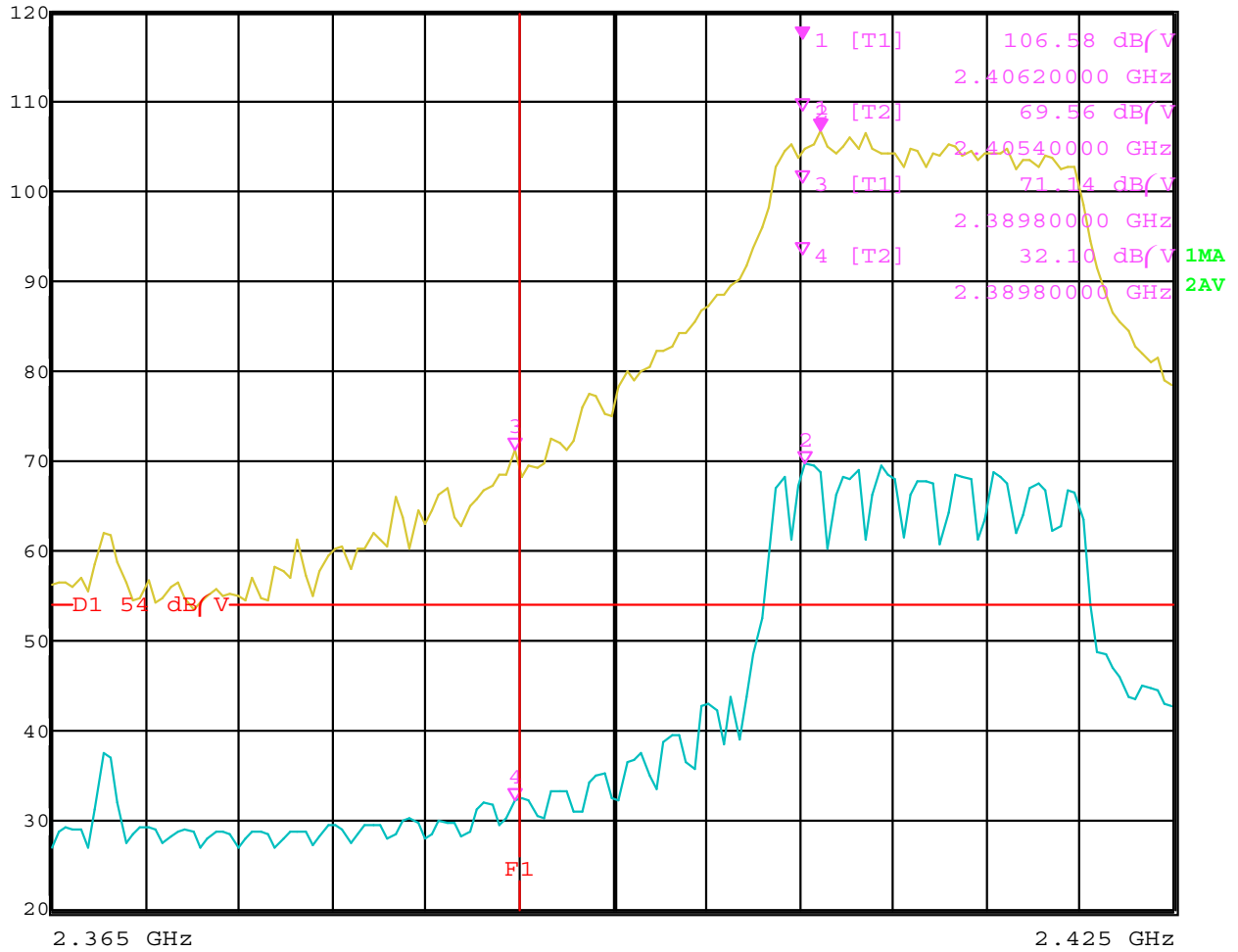


Date: 15.MAR.2004 23:58:36

Ch.1 - Band Edge - Vertical Polarization – Plot 1

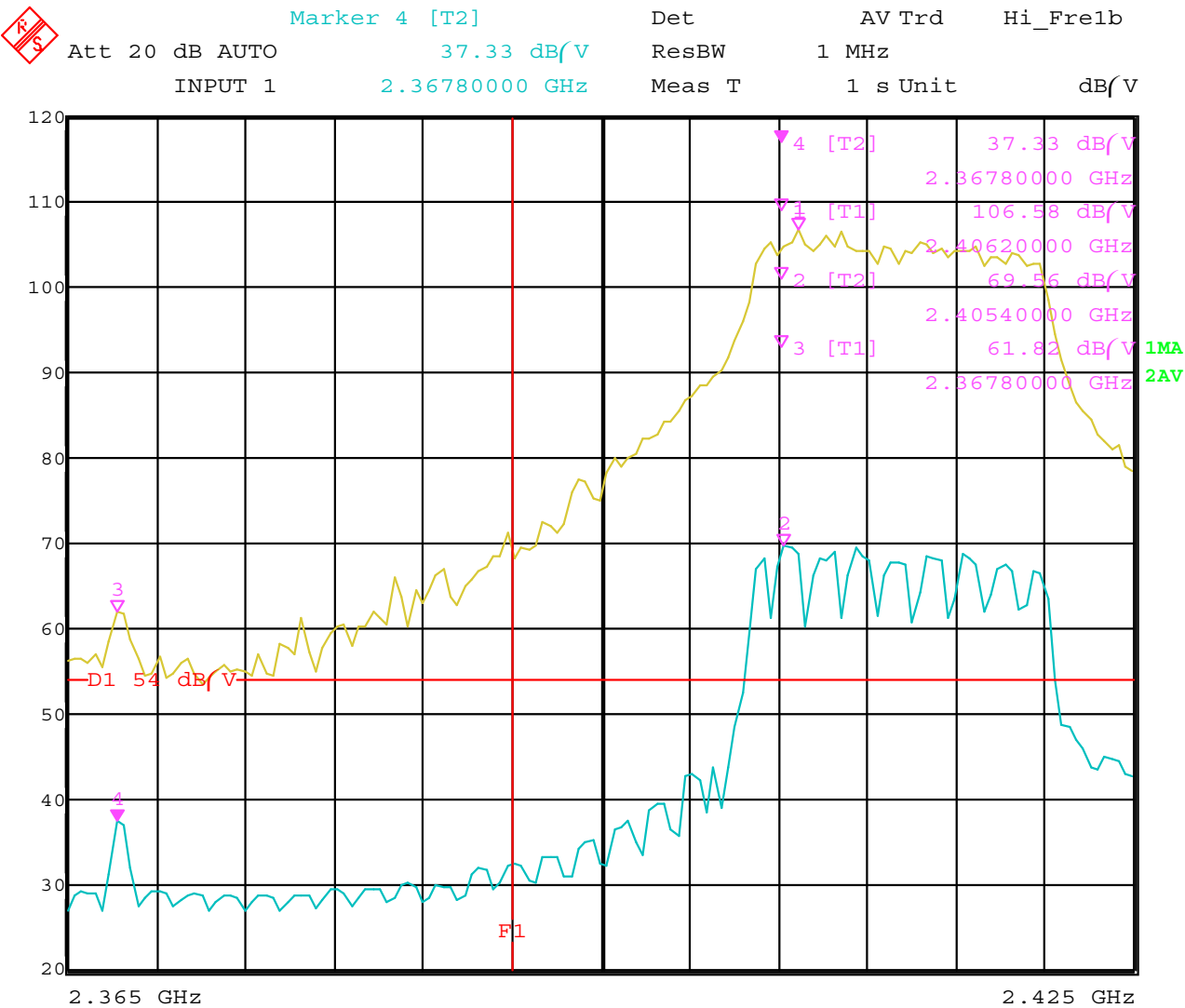


Att 20 dB AUTO Marker 1 [T1] Det AV Trd Hi_Fre1b
 INPUT 1 106.58 dB/V ResBW 1 MHz
 2.40620000 GHz Meas T 1 s Unit dB/V



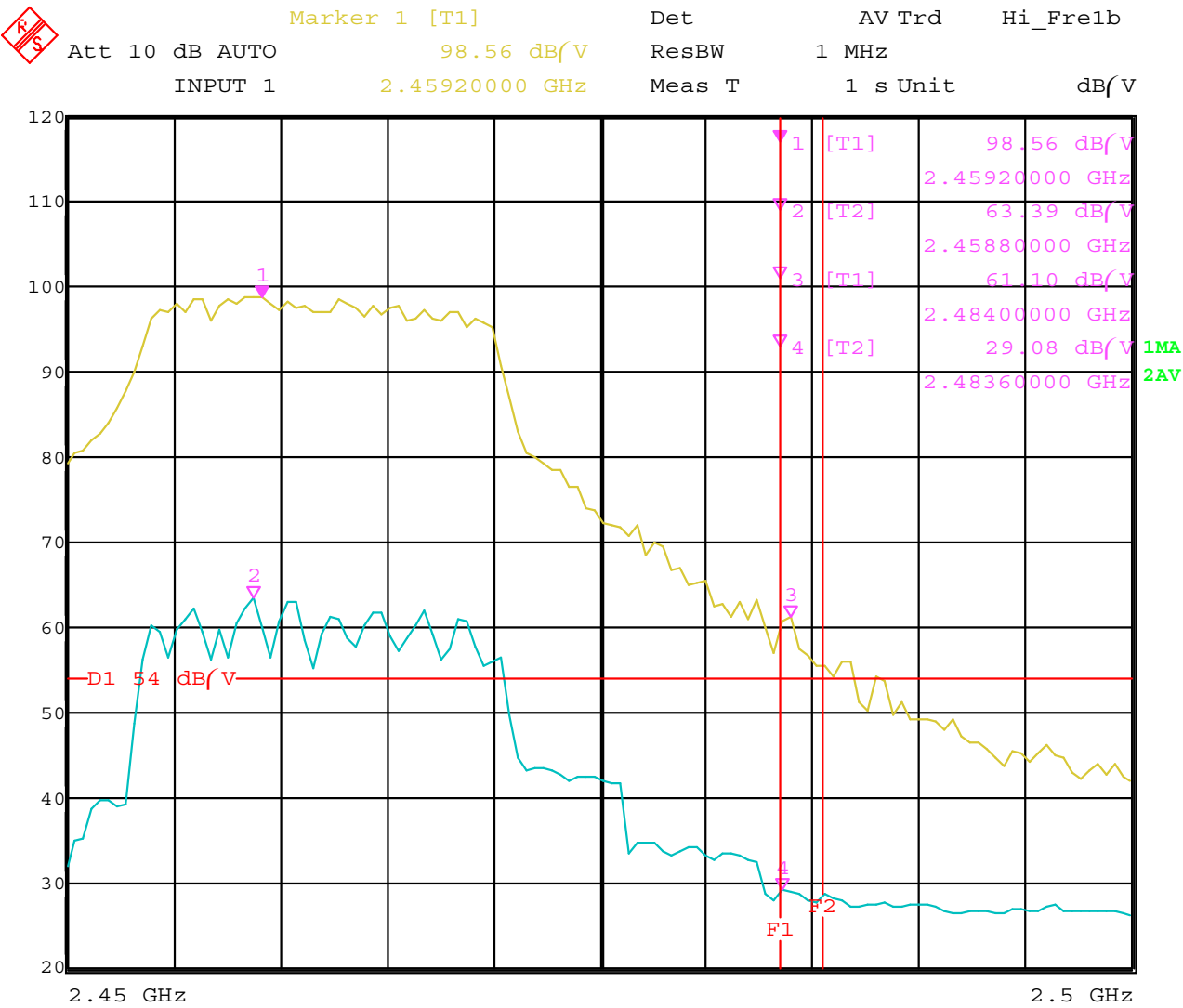
Date: 16.MAR.2004 00:11:57

Ch.1 - Band Edge - Vertical Polarization – Plot 2



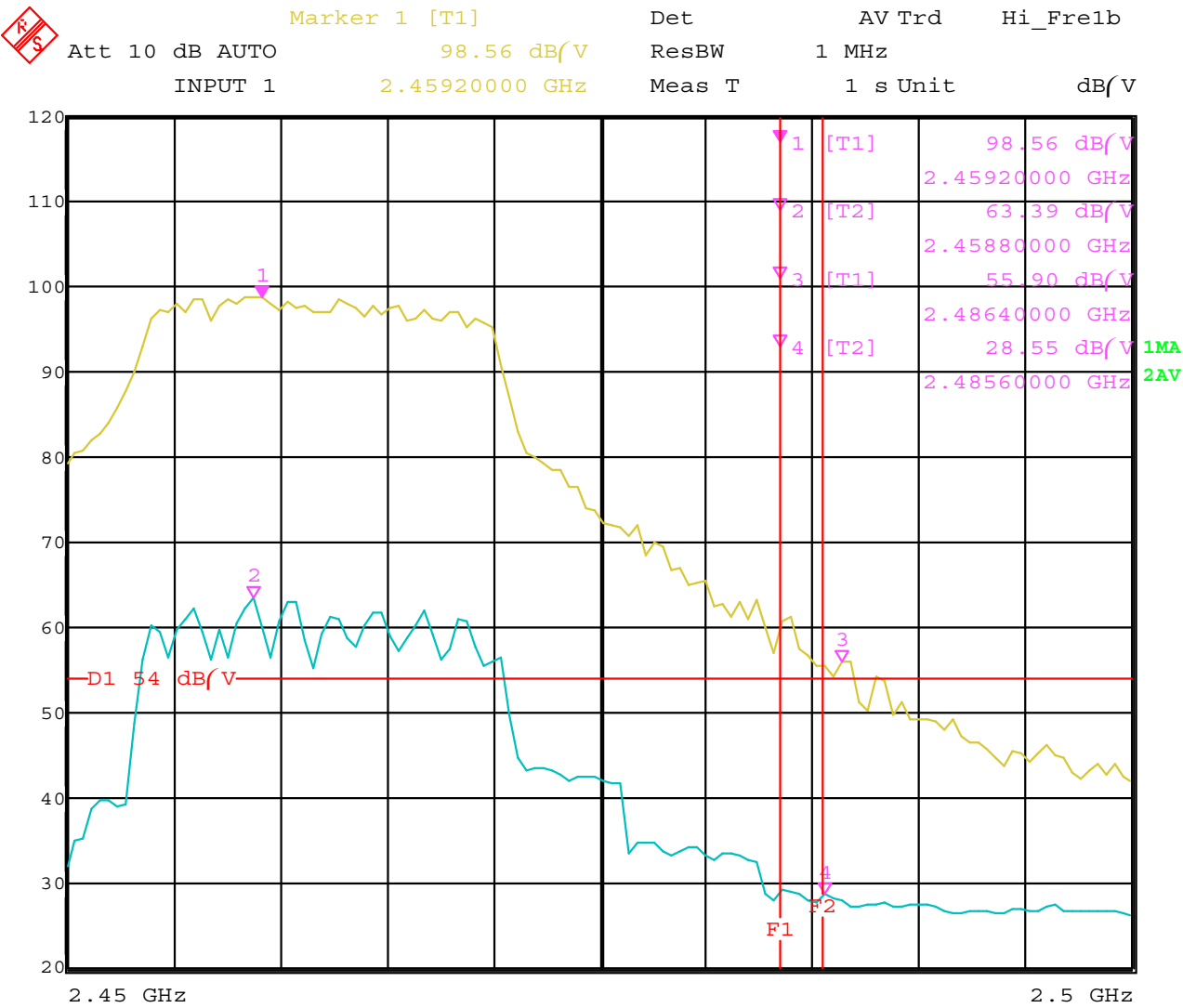
Date: 16.MAR.2004 00:12:41

Ch.11 - Band Edge - Horizontal Polarization – Plot 1



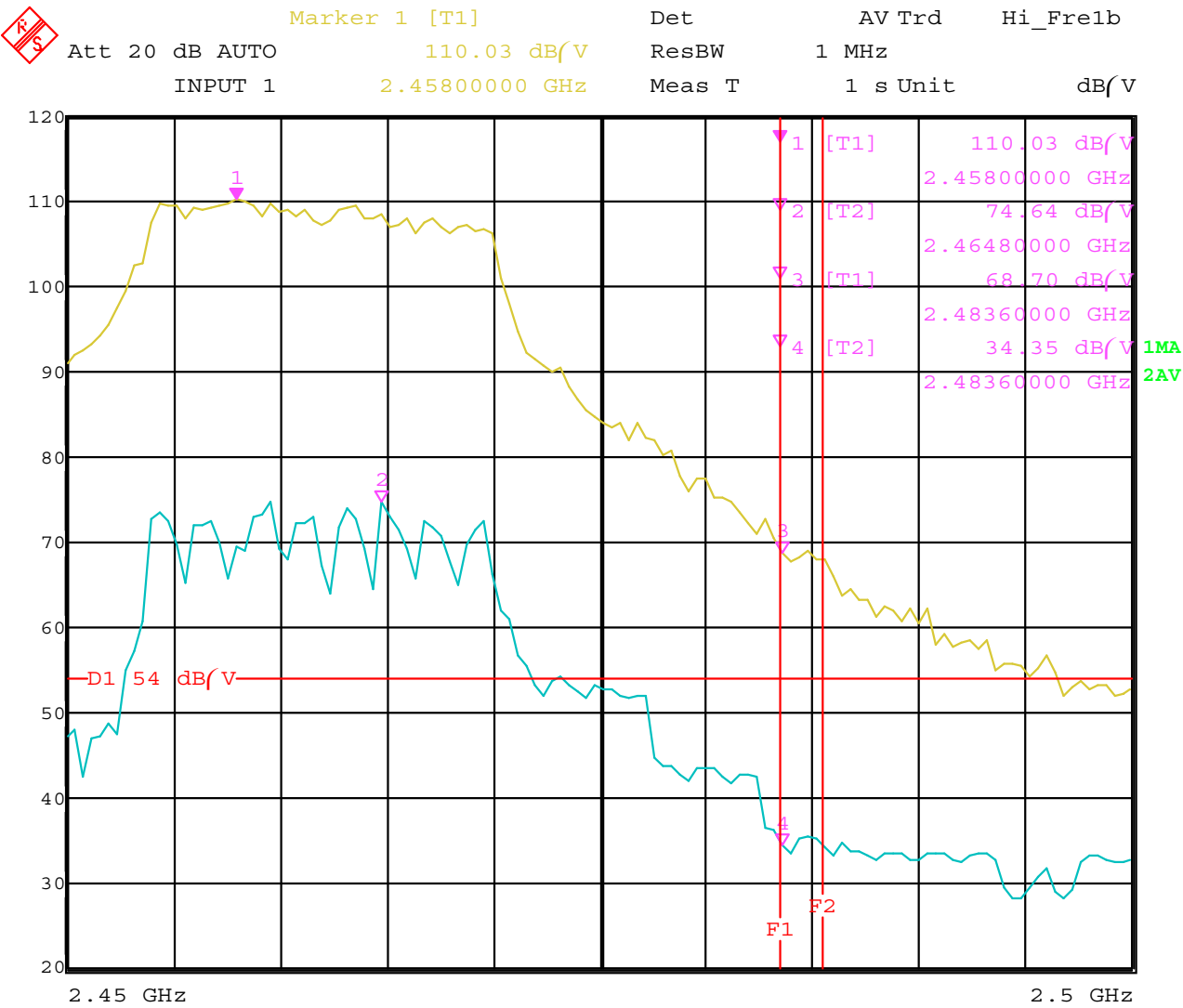
Date: 29.MAR.2004 22:55:29

Ch.11 - Band Edge - Horizontal Polarization – Plot 2



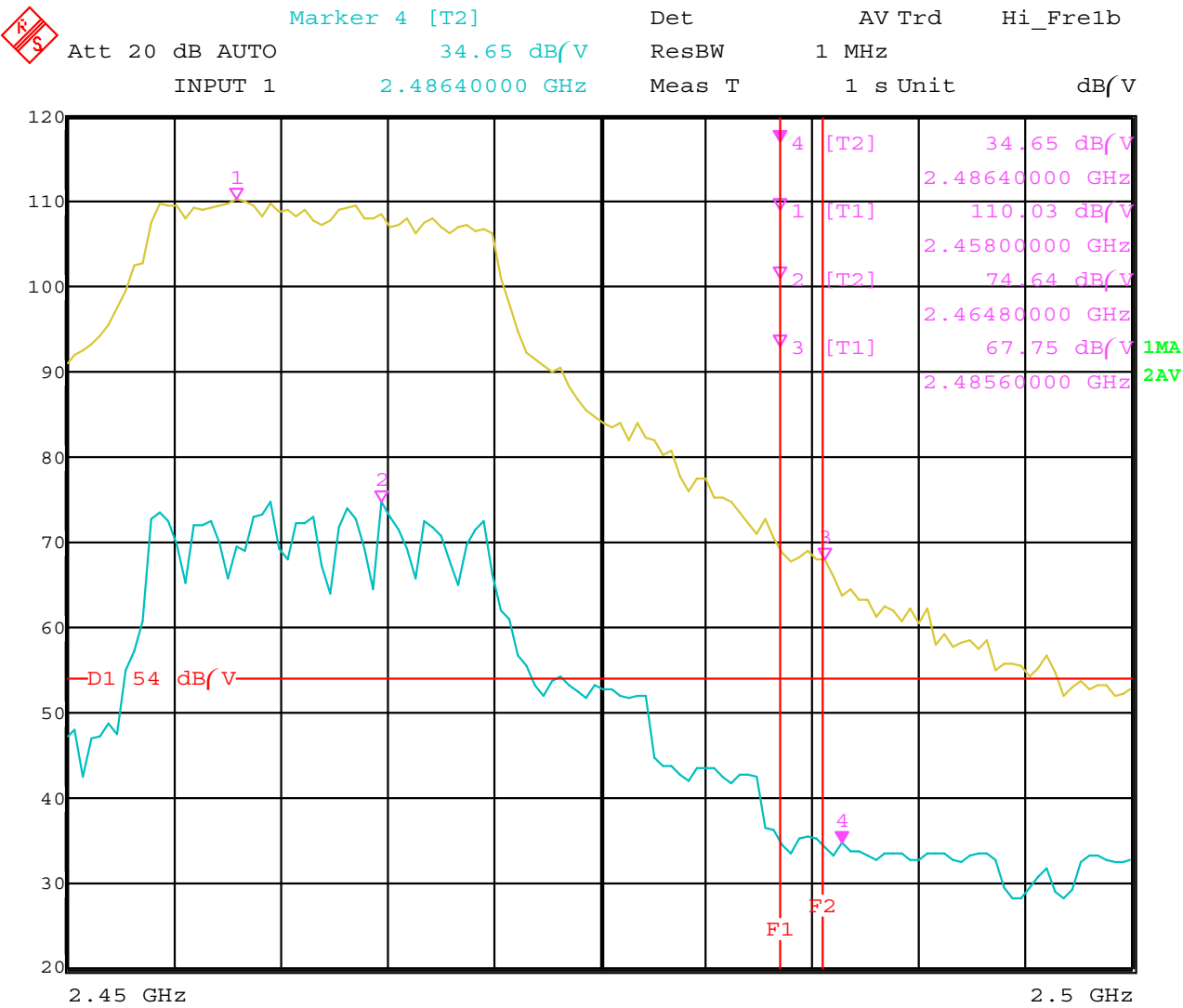
Date: 29.MAR.2004 22:56:02

Ch.11 - Band Edge - Vertical Polarization – Plot 1



Date: 29.MAR.2004 22:49:05

Ch.11 - Band Edge - Vertical Polarization – Plot 2



Date: 29.MAR.2004 22:49:48

FCC 15.247

CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/16/04

Lab: B

Tested By: Ben Chavez

Channel 149 - 802.11 a Mode**Channel 157 - 802.11 a Mode****Channel 165 - 802.11 a Mode****Transmit Mode**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5745	104.06	V	--	--	Peak	1.75	135	Fundamental of Channel 149
5745	65.12	V	--	--	Avg	1.75	135	@ 3 meters
5785	106.12	V	--	--	Peak	1.75	270	Fundamental of Channel 157
5785	68.93	V	--	--	Avg	1.75	270	@ 3 meters
5825	104.76	V	--	--	Peak	1.75	270	Fundamental of Channel 165
5825	67.98	V	--	--	Avg	1.75	270	@ 3 meters

FCC 15.247

CMC

EmulationEngine

Model: RCX-EE11ABG3

Date: 3/16/04

Lab: B

Tested By: Ben Chavez

Channel 149 - 802.11 a Mode**Channel 157 - 802.11 a Mode****Channel 165 - 802.11 a Mode****Transmit Mode**

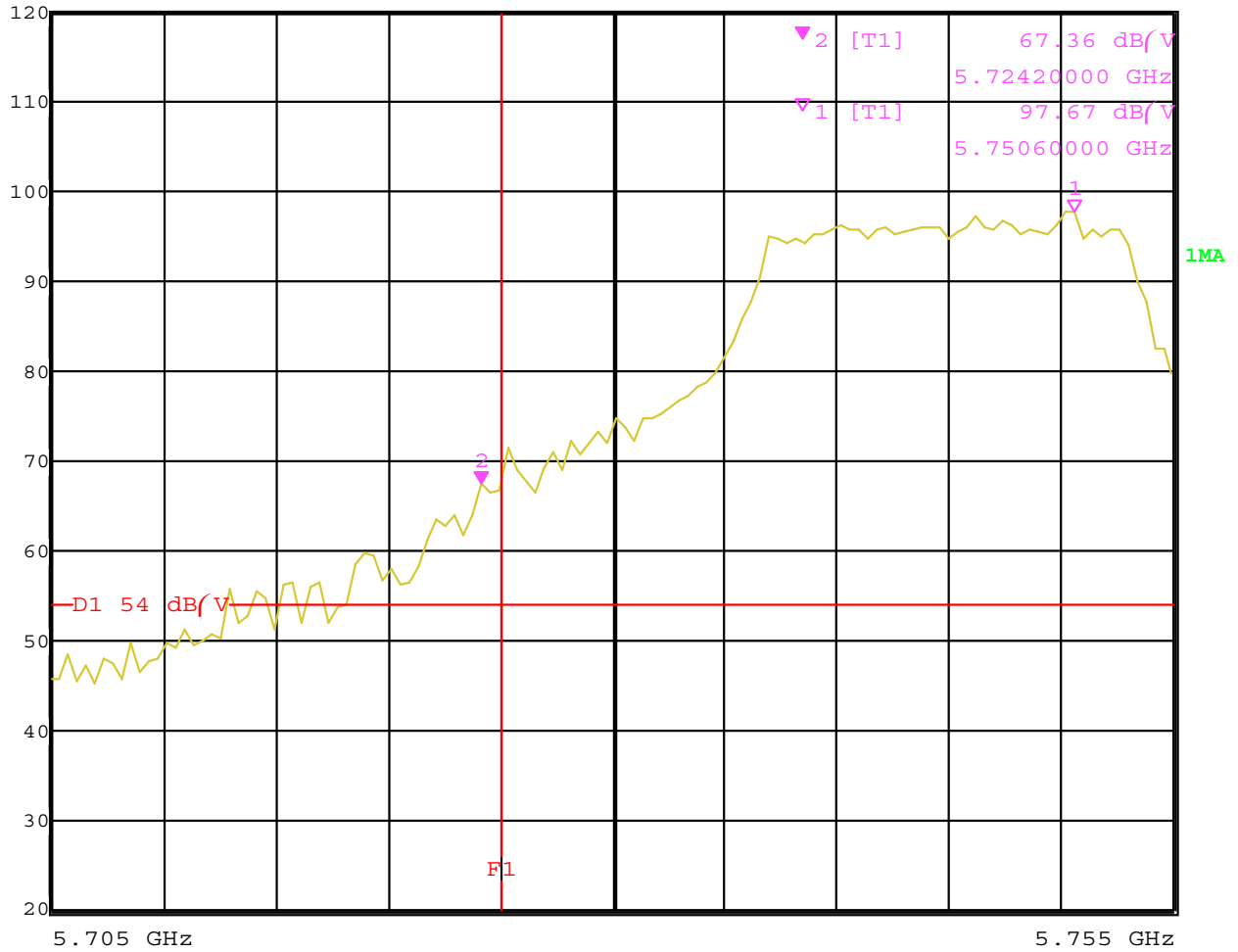
Freq. (MHz)		Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
5745	97.67	H	--	--	Peak	1.75	180	Fundamental of Channel 149
5745	57.8	H	--	--	Avg	1.75	180	@ 3 meters
5785	97.24	H	--	--	Peak	1.75	180	Fundamental of Channel 157
5785	56.9	H	--	--	Avg	1.75	180	@ 3 meters
5825	96.01	H	--	--	Peak	1.75	225	Fundamental of Channel 165
5825	59.05	H	--	--	Avg	1.75	225	@ 3 meters

Ch.149 - Band Edge - Horizontal Polarization

A-Mode Band Edge Plots



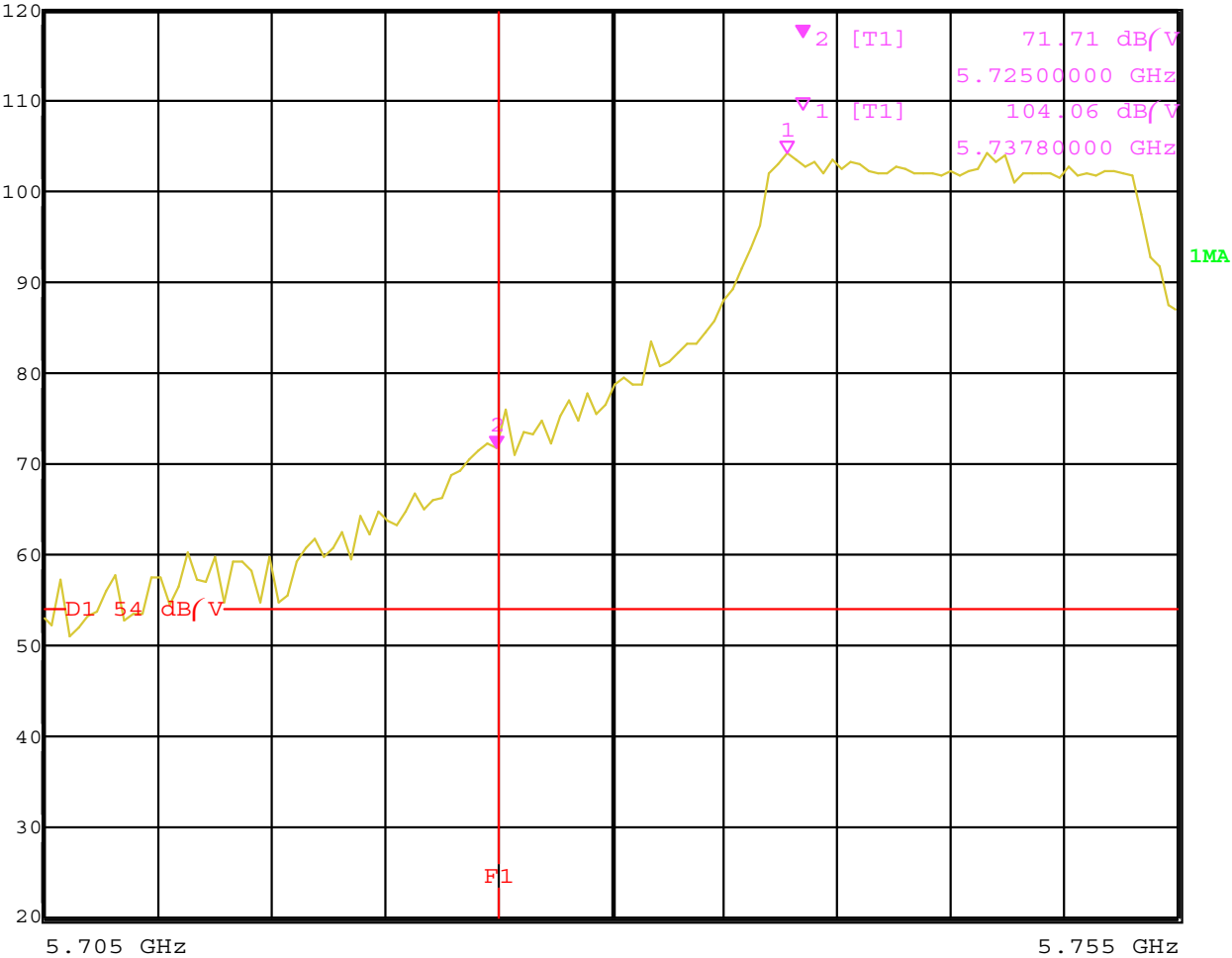
Att 0 dB AUTO Marker 2 [T1] Det AV Trd Hi_Fre1b
INPUT 1 5.72420000 GHz ResBW 1 MHz
Meas T 1 s Unit dB/V



Date: 30.MAR.2004 00:59:32

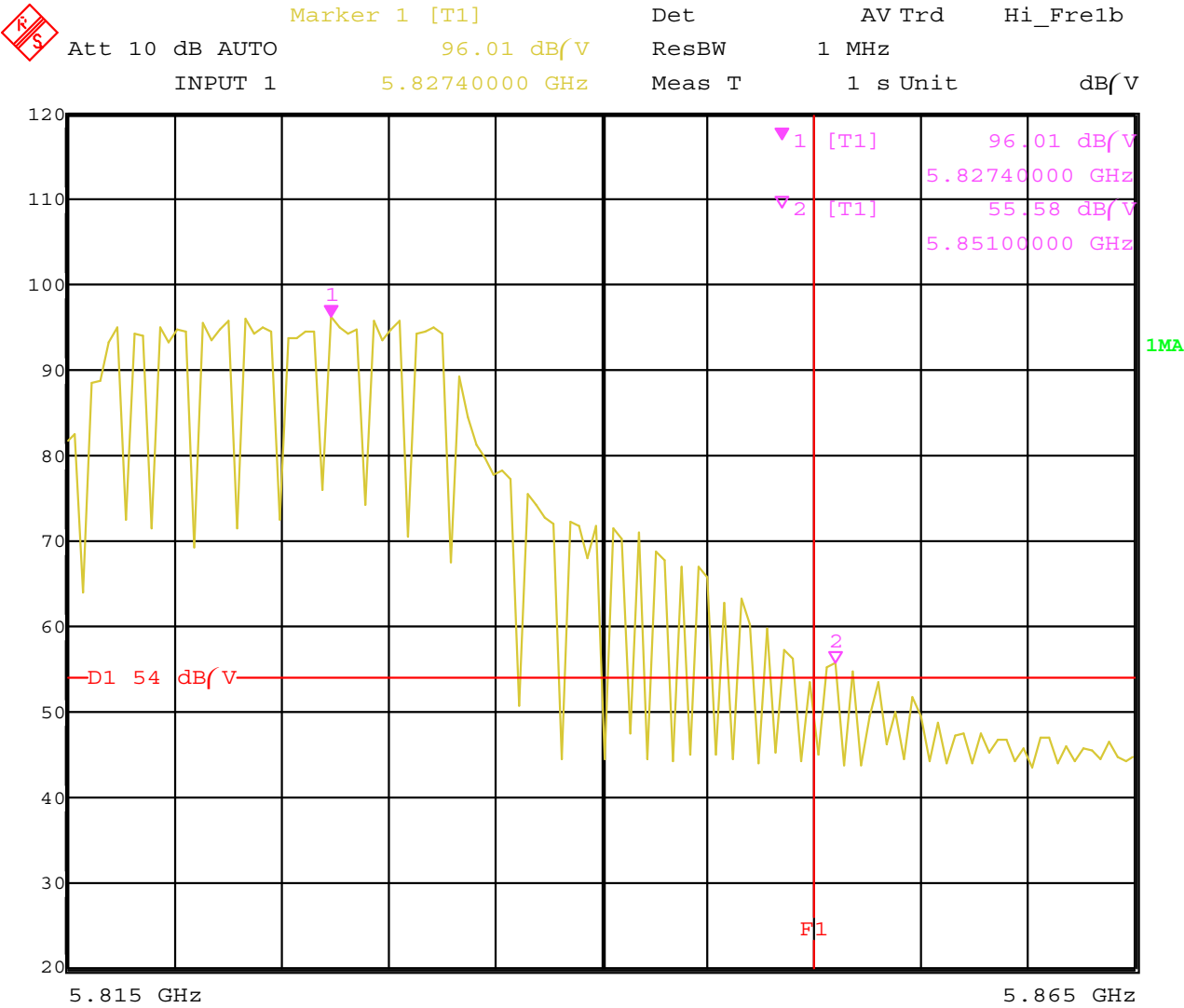


Att 20 dB AUTO	Marker 2 [T1]	Det	AV Trd	Hi_Freqb
INPUT 1	71.71 dB(V	ResBW	1 MHz	
	5.72500000 GHz	Meas T	1 s Unit	dB(V



Date: 30.MAR.2004 01:23:27

Ch.165 - Band Edge - Horizontal Polarization A-Mode Band Edge Plots



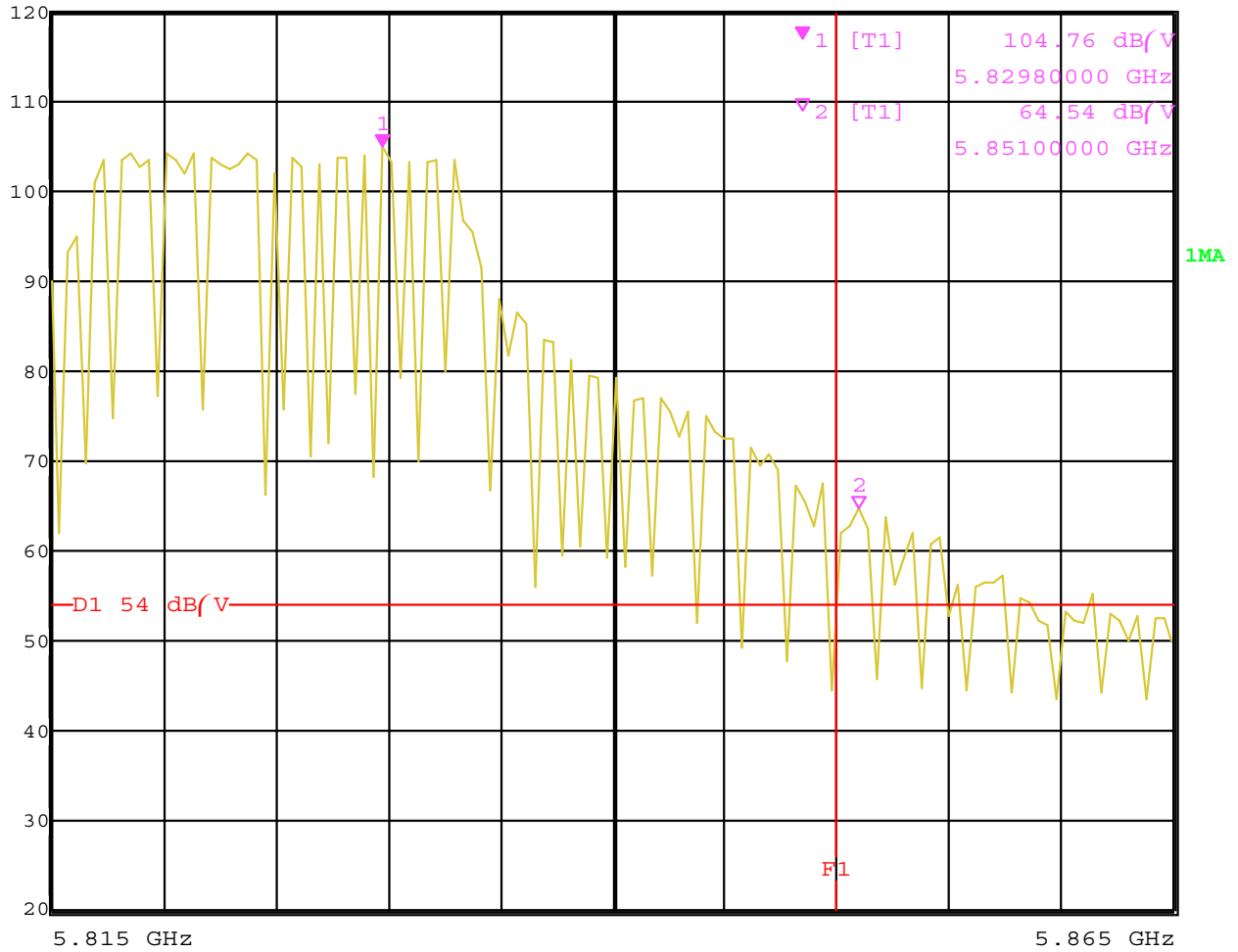
Date: 30.MAR.2004 00:15:49

Ch.165 - Band Edge - Vertical Polarization

A-Mode Band Edge Plots



Att 10 dB AUTO Marker 1 [T1] Det AV Trd Hi_Fre1b
INPUT 1 104.76 dB/V ResBW 1 MHz
5.82980000 GHz Meas T 1 s Unit dB/V



Date: 30.MAR.2004 00:21:51