

DATA OF CONDUCTION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22FE0029-YW

Applicant : Matsushita Electric Industrial Co., Ltd.
Kind of Equipment : Wireless LAN built-in PC
Model No. : CF-P1
Serial No. :
Power : AC120V/60Hz
Mode : Transmitting(ch: 1)
Remarks : FCC ID:ACJ9TGCF-P11
Date : 1/29/2002
Phase : Single Phase
Temperature : 24 °C
Humidity : 23 %
Regulation : FCC Part15. 207


Engineer : Tomoyuki Yamashita

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV				QP	AV	QP	AV	QP	AV
		[dBuV]		[dBuV]					[dBuV]		[dBuV]		[dB]	
1.	0.4894	31.2	-	25.4	-	0.2	0.1	0.0	31.5	-	48.0	0.0	16.5	-
2.	1.6115	26.2	-	24.0	-	0.2	0.1	0.0	26.5	-	48.0	0.0	21.5	-
3.	2.1717	23.2	-	22.7	-	0.2	0.2	0.0	23.6	-	48.0	0.0	24.4	-
4.	5.6838	38.9	-	39.9	-	0.4	0.2	0.0	40.5	-	48.0	0.0	7.5	-
5.	7.0818	22.0	-	21.6	-	0.4	0.3	0.0	22.7	-	48.0	0.0	25.3	-
6.	18.3678	16.9	-	16.5	-	1.0	0.4	0.0	18.3	-	48.0	0.0	29.7	-
7.	25.1007	11.0	-	10.6	-	1.1	0.5	0.0	12.6	-	48.0	0.0	35.4	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

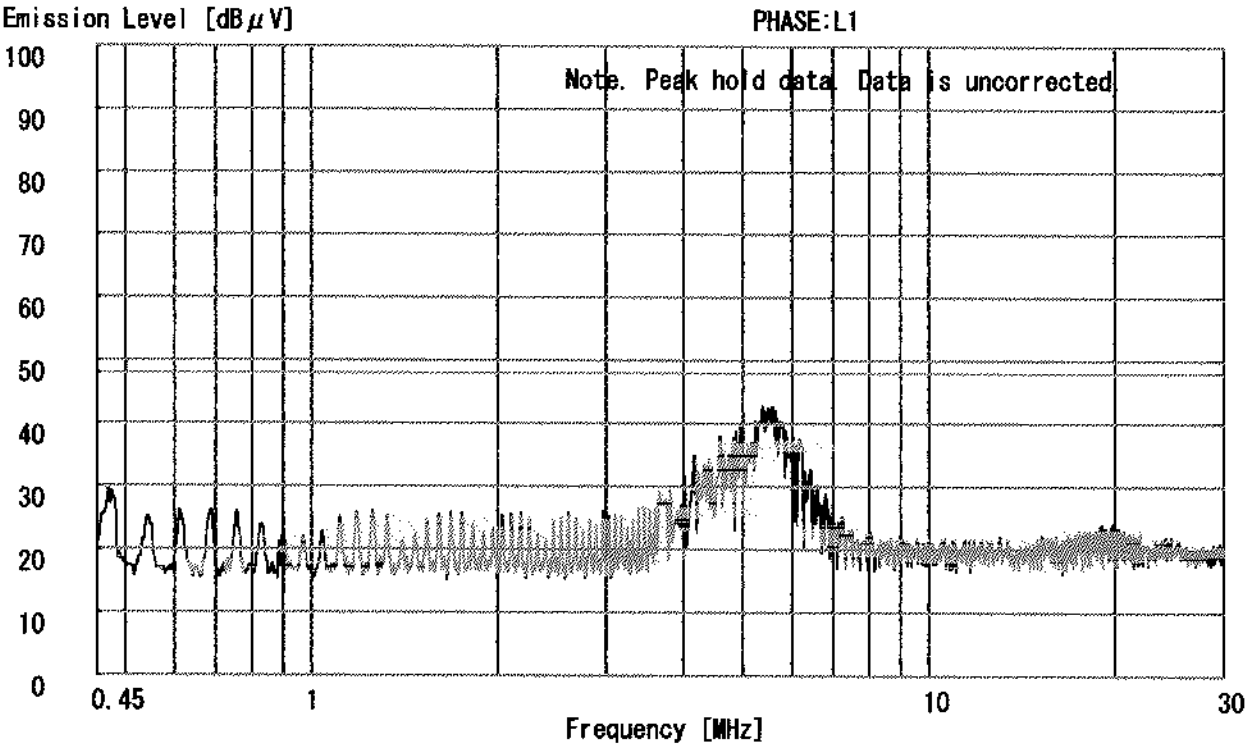
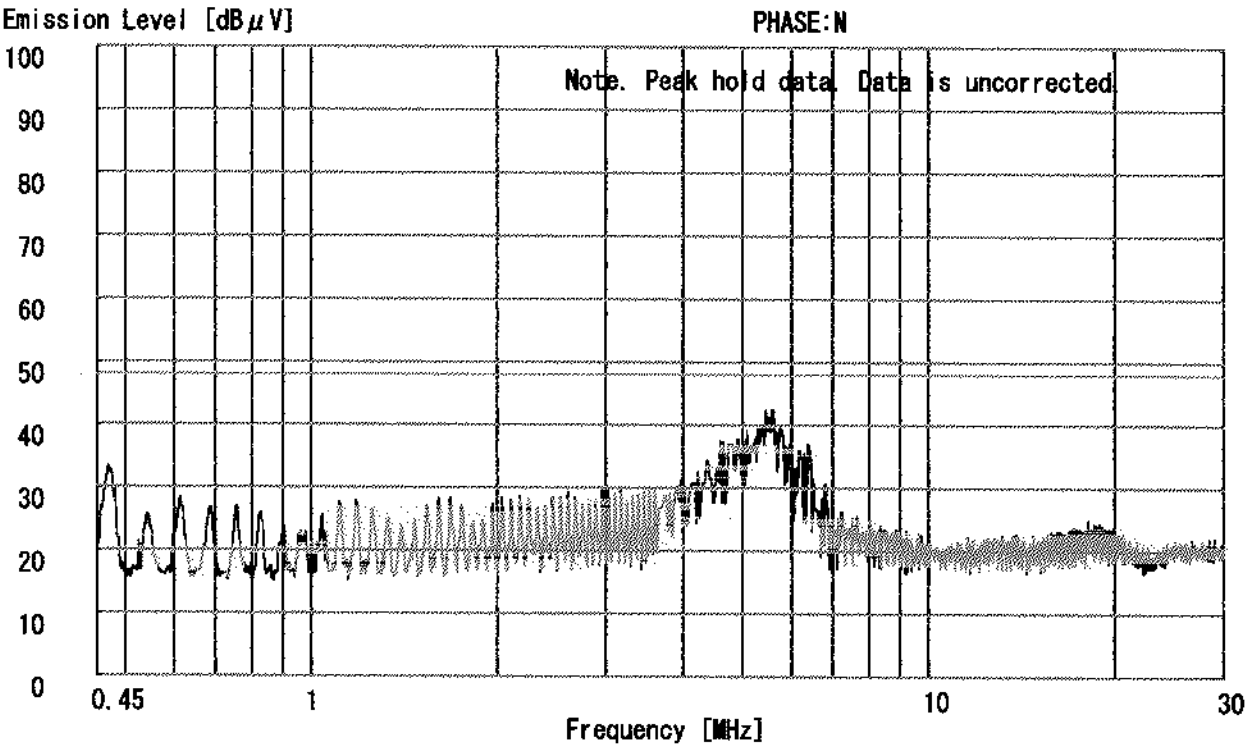
Except for the above table : adequate margin data below the limits.

DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
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Applicant : Matsushita Electric Industrial Co., Ltd.
Kind of Equipment : Wireless LAN built-in PC
Model No. : CF-P1
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Power : AC120V/60Hz
Mode : Transmitting(ch: 1)
Remarks : FCC ID:ACJ9TGCF-P11
Date : 1/29/2002
Phase : Single Phase
Temperature : 24 °C
Humidity : 23 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

T. Yamashita
Engineer : Tomoyuki Yamashita



DATA OF CONDUCTION TEST CHART

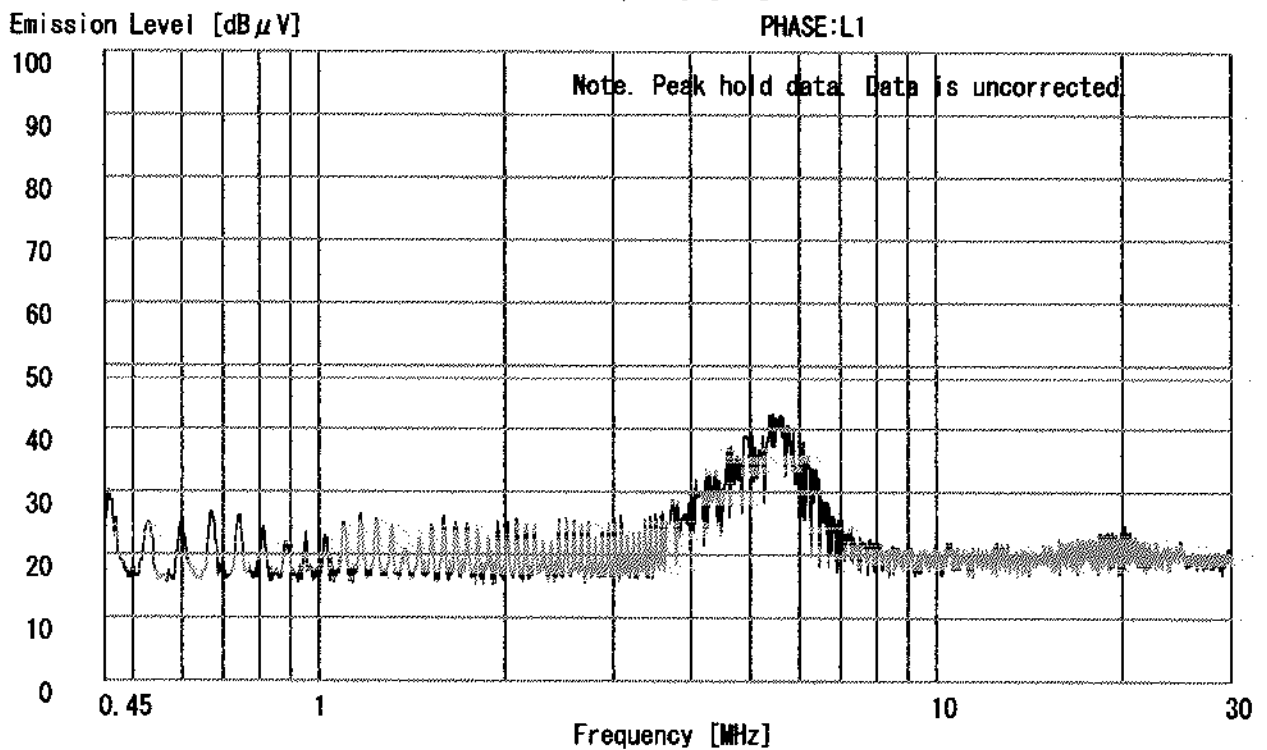
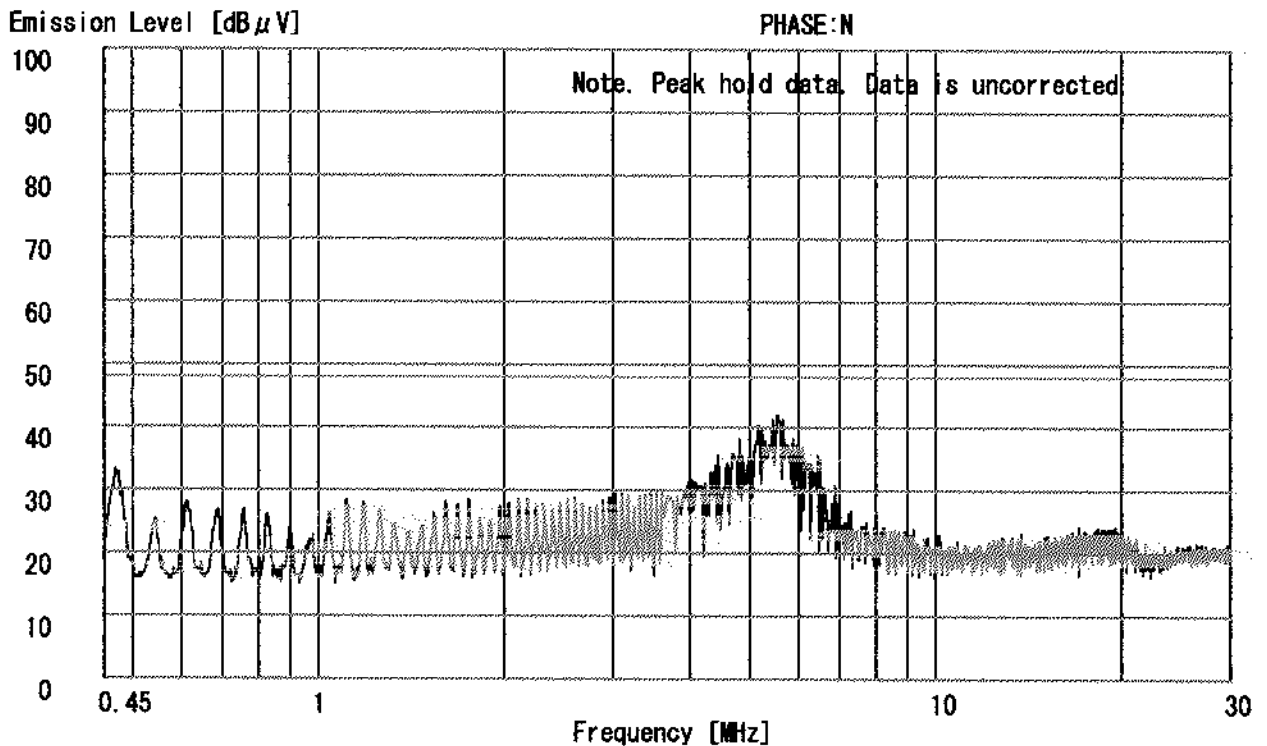
A-PEX INTERNATIONAL CO., LTD.

YOKOWA No.3 OPEN TEST SITE

Report No. : 22FE0029-YW

Applicant : Matsushita Electric Industrial Co., Ltd.
Kind of Equipment : Wireless LAN built-in PC
Model No. : CF-P1
Serial No. :
Power : AC120V/60Hz
Mode : Transmitting(ch: 6)
Remarks : FCC ID:ACJ9TGCF-P11
Date : 1/29/2002
Phase : Single Phase
Temperature : 24 °C
Humidity : 23 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

T. Yamashita
Engineer : Tomoyuki Yamashita

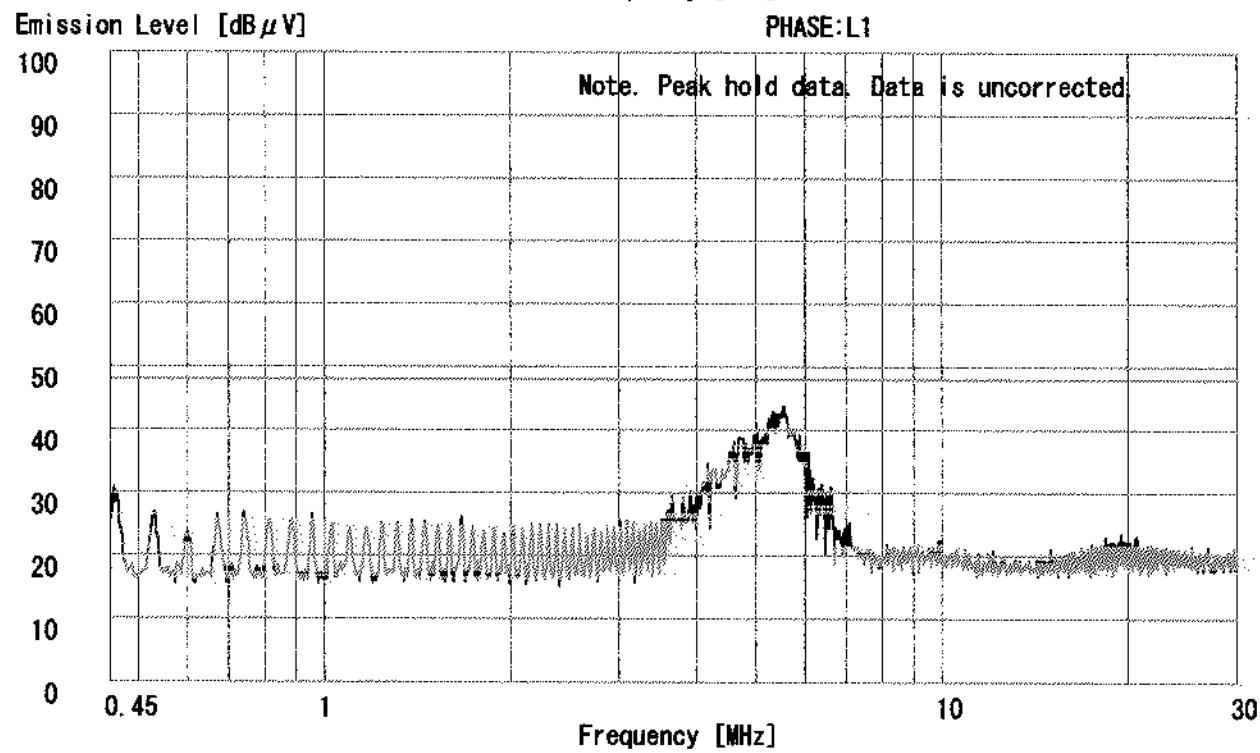
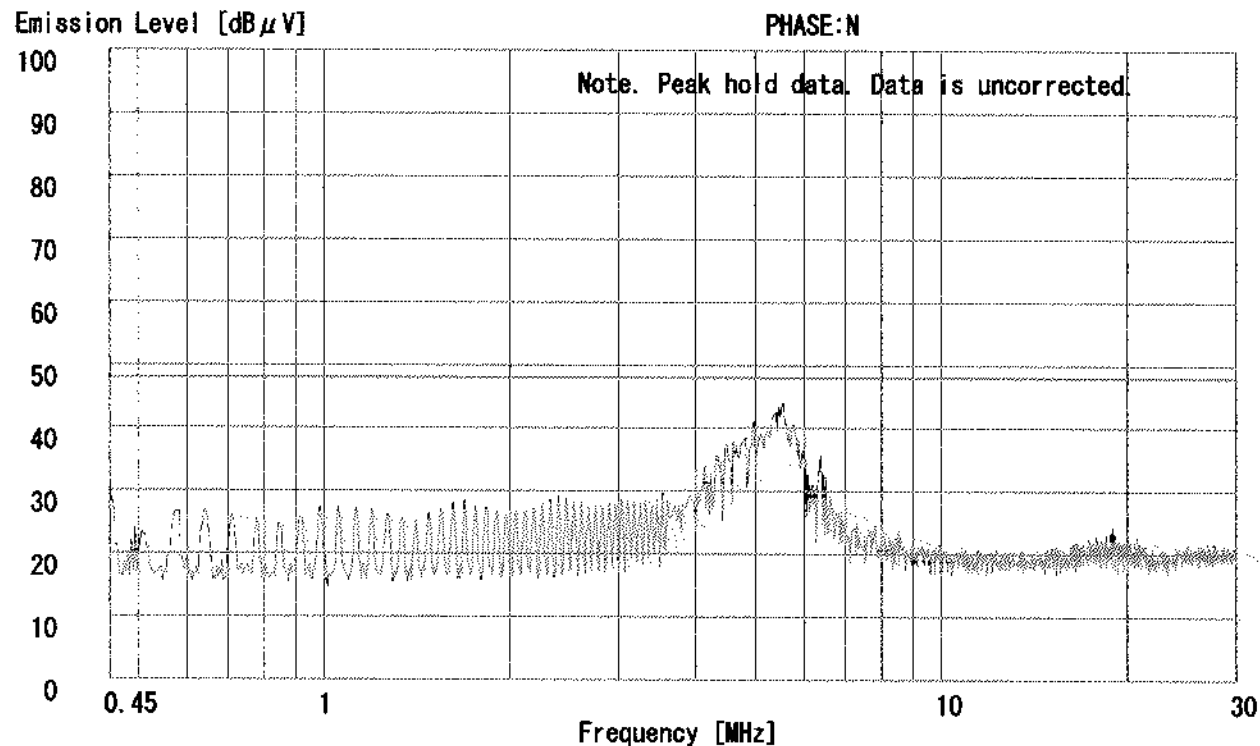


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A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22FE0029-YW

Applicant : Matsushita Electric Industrial Co., Ltd.
Kind of Equipment : Wireless LAN built-in PC
Model No. : CF-P1
Serial No. :
Power : AC120V/60Hz
Mode : Transmitting(ch: 11)
Remarks : FCC ID:ACJ9TGCF-P11
Date : 1/29/2002
Phase : Single Phase
Temperature : 24 °C
Humidity : 23 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

T. Yamashita
Engineer : Tomoyuki Yamashita

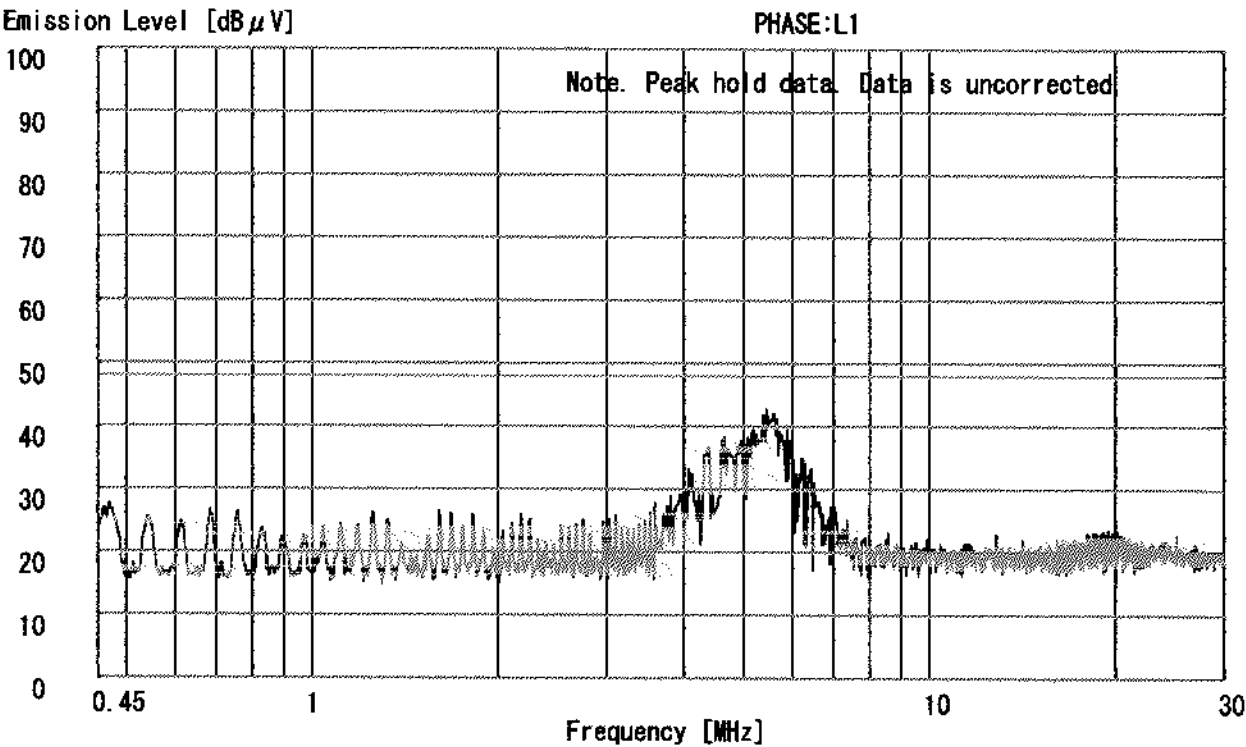
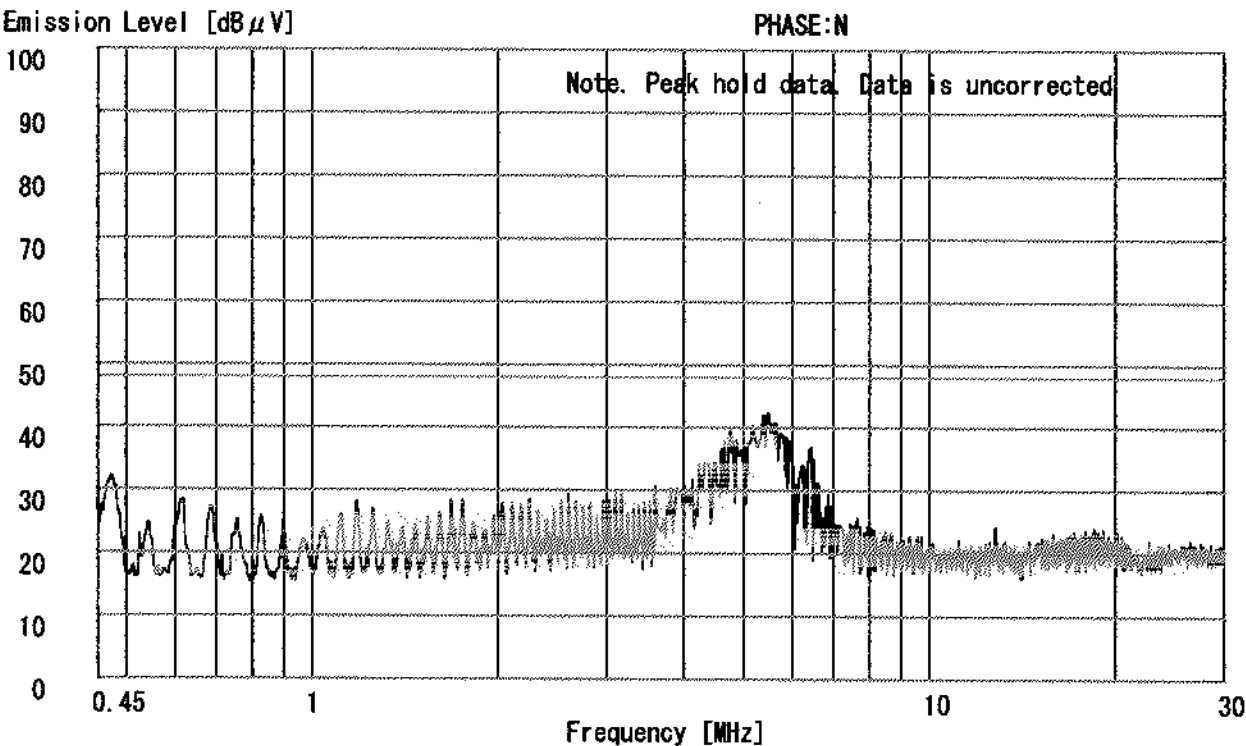


DATA OF CONDUCTION TEST CHART

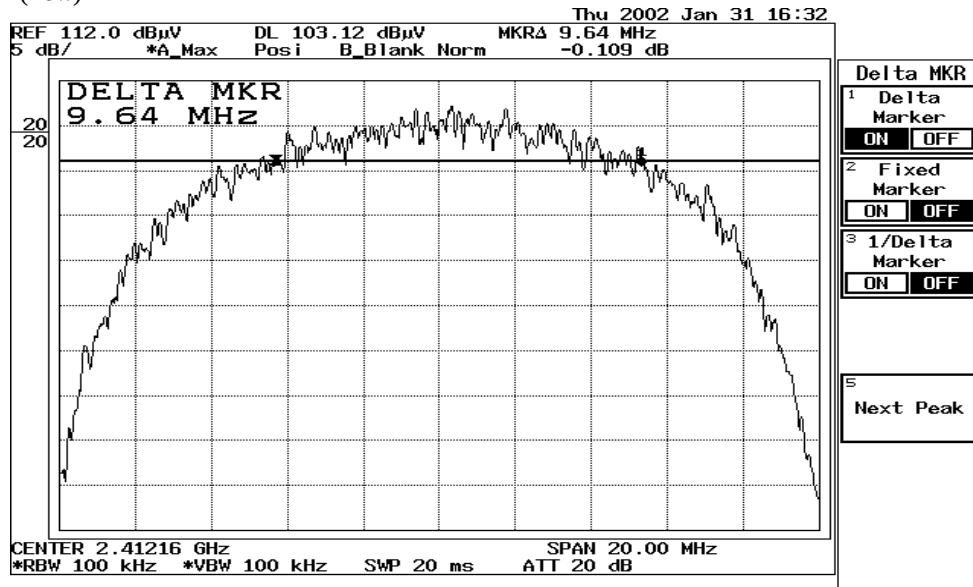
A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22FE0029-YW

Applicant : Matsushita Electric Industrial Co., Ltd.
Kind of Equipment : Wireless LAN built-in PC
Model No. : CF-P1
Serial No. :
Power : AC120V/60Hz
Mode : Stand-by
Remarks : FCC ID:ACJ9TGCF-P11
Date : 1/29/2002
Phase : Single Phase
Temperature : 24 °C
Humidity : 23 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

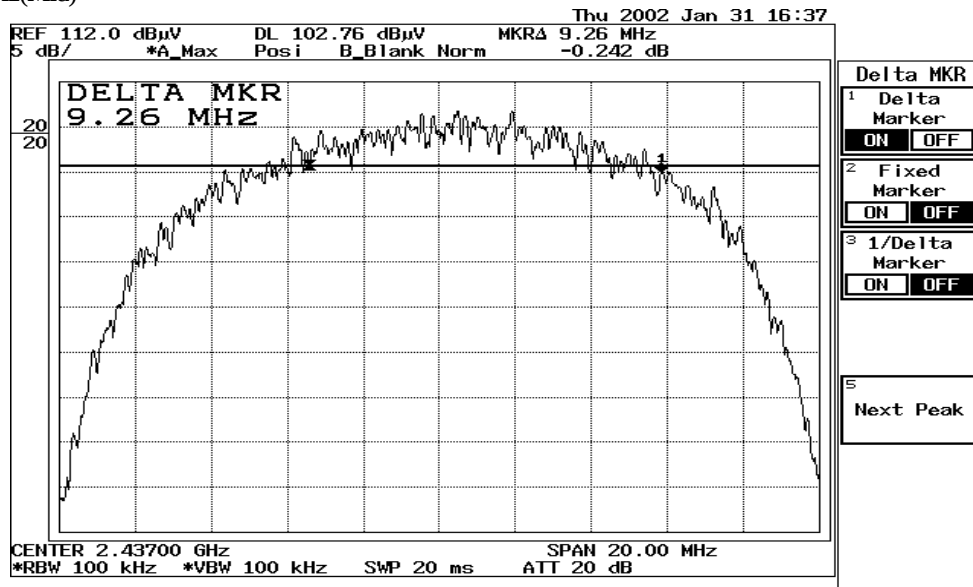
T. Yamashita
Engineer : Tomoyuki Yamashita



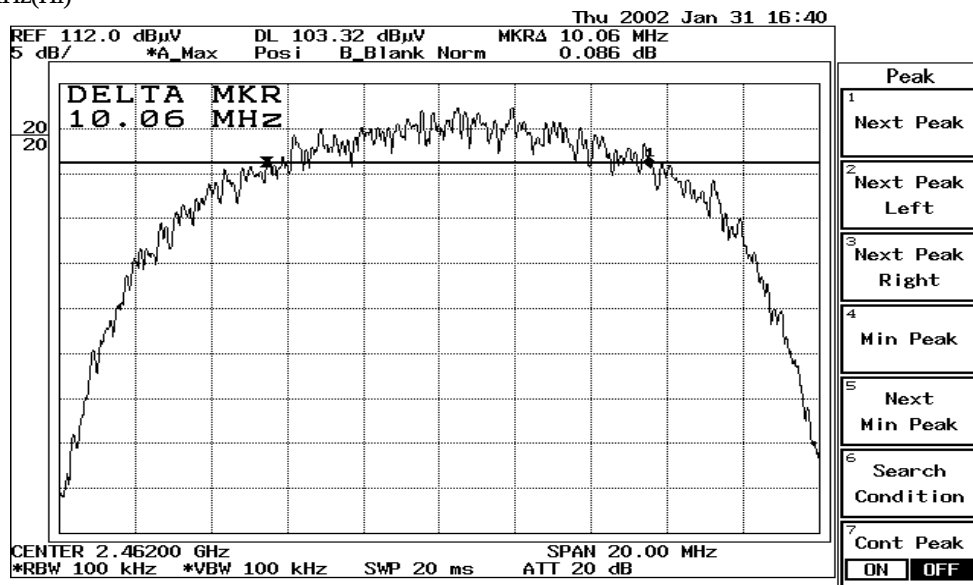
1. Ch1: 2412MHz(Low)



2. Ch6: 2437MHz(Mid)



3. Ch11: 2462MHz(Hi)



Peak Out Put Power(Conducted)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co.,Ltd
EQUIPMENT : Wireless LAN builtin PC
MODEL : CF-P1
FCC ID : ACJ9TGCF-P11
POWER : AC120V/60Hz
Mode : Transmitting

REPORT NO : 22FE0029-YW
REGULATION : Fcc Part15SubpartC 247(b)(1)
TEST DISTANCE :
DATE : 2002/1/31
Temp./Humi. : 19 /27%


ENGINEER : Naoki Sakamoto

CH	FREQ [GHz]	PM Reading [dBm]	Limit (1W) [dBm]	MARGIN [dB]
Low	2.41200	13.5	30.0	16.5
Mid	2.43700	13.4	30.0	16.6
High	2.46200	14.1	30.0	15.9

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22FE0029-YW

Applicant : Matsushita Electric Industrial Co., Ltd.
Kind of Equipment : Wireless LAN built-in PC
Model No. : CF-P1
Serial No. :
Power : AC120V/60Hz
Mode : Transmitting(ch: 1)
Remarks : FCC ID : ACJ9TGCF-P11
Date : 1/28/2002
Test Distance : 3 m
Temperature : 24 °C
Humidity : 33 %
Regulation : Fcc 15C § 15.209(a)


Engineer : Tomoyuki Yamashita

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	126.29	BB	35.0	34.2	13.6	27.8	2.2	5.9	28.9	28.1	43.5	14.6	15.4
2.	129.61	BB	36.1	33.7	13.7	27.8	2.2	5.9	30.1	27.7	43.5	13.4	15.8
3.	139.21	BB	33.6	30.5	14.1	27.8	2.3	5.9	28.1	25.0	43.5	15.4	18.5
4.	148.80	BB	32.1	30.4	14.4	27.8	2.4	5.9	27.0	25.3	43.5	16.5	18.2
5.	206.45	BB	44.5	40.6	16.4	27.8	2.9	5.9	41.9	38.0	43.5	1.6	5.5
6.	309.69	BB	36.0	32.0	14.3	27.6	3.5	5.8	32.0	28.0	46.0	14.0	18.0

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit
ANT. TYPE:30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22FE0029-YW

Applicant : Matsushita Electric Industrial Co., Ltd.
Kind of Equipment : Wireless LAN built-in PC
Model No. : CF-P1
Serial No. :
Power : AC120V/60Hz
Mode : Transmitting(ch: 6)
Remarks : FCC ID : ACJ9TGCF-P11
Date : 1/28/2002
Test Distance : 3 m
Temperature : 24 °C
Humidity : 33 %
Regulation : FCC 15C § 15.209(a)

T. Yamashita
Engineer : Tomoyuki Yamashita

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	126.29	BB	35.1	32.2	13.6	27.8	2.2	5.9	29.0	26.1	43.5	14.5	17.4
2.	129.61	BB	36.7	30.9	13.7	27.8	2.2	5.9	30.7	24.9	43.5	12.8	18.6
3.	139.21	BB	31.5	28.9	14.1	27.8	2.3	5.9	26.0	23.4	43.5	17.5	20.1
4.	148.80	BB	30.0	29.1	14.4	27.8	2.4	5.9	24.9	24.0	43.5	18.6	19.5
5.	206.45	BB	45.2	39.7	16.4	27.8	2.9	5.9	42.6	37.1	43.5	0.9	6.4
6.	309.69	BB	34.9	32.2	14.3	27.6	3.5	5.8	30.9	28.2	46.0	15.1	17.8

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22FE0029-YW

Applicant : Matsushita Electric Industrial Co., Ltd.
Kind of Equipment : Wireless LAN built-in PC
Model No. : CF-P1
Serial No. :
Power : AC120V/60Hz
Mode : Transmitting(ch: 11)
Remarks : FCC ID : ACJ9TGCF-P11
Date : 1/28/2002
Test Distance : 3 m
Temperature : 24 °C
Humidity : 33 %
Regulation : Fcc 15C § 15. 209 (a)

T. Yamashita
Engineer : Tomoyuki Yamashita

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	124.62	BB	35.2	33.3	13.5	27.9	2.1	5.9	28.8	26.9	43.5	14.7	16.6
2.	129.62	BB	36.4	32.4	13.7	27.8	2.2	5.9	30.4	26.4	43.5	13.1	17.1
3.	139.20	BB	33.7	31.0	14.1	27.8	2.3	5.9	28.2	25.5	43.5	15.3	18.0
4.	148.80	BB	31.7	30.8	14.4	27.8	2.4	5.9	26.6	25.7	43.5	16.9	17.8
5.	206.44	BB	45.0	39.0	16.4	27.8	2.9	5.9	42.4	36.4	43.5	1.1	7.1
6.	309.69	BB	35.7	31.3	14.3	27.6	3.5	5.8	31.7	27.3	46.0	14.3	18.7

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit
ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic

DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co., Ltd.
EQUIPMENT : Wireless LAN builtin PC
MODEL : CF-P1
S/N :
FCC ID : ACJ9TGCF-P11
POWER : AC120V/60Hz
Mode : Transmitting (ch1: 2412MHz)

REPORT NO : 22FE0029-YW
REGULATION : Fcc Part15SubpartC 247(b)(1)
TEST DISTANCE : 1m(10-26GHz)/3m(1-10GHz)
DATE : 2002/1/28
Temperature : 24degrees centigrade
Humidity : 34%


ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR VER							HOR VER			HOR VER	
		[dBuV]							[dBuV/m]			[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.03240	50.2	56.5	25.2	39.0	1.6	0.0	0.0	38.0	44.3	74.0	36.0	29.7
2	1.44496	49.5	54.7	26.6	38.6	1.8	0.0	0.0	39.3	44.5	74.0	34.7	29.5
3	1.65150	50.7	52.9	27.9	38.4	1.9	0.0	0.0	42.1	44.3	74.0	31.9	29.7
4	2.03802	45.9	48.5	30.5	38.0	2.1	0.0	0.0	40.5	43.1	74.0	33.5	30.9
5	4.82400	69.8	70.5	35.3	38.0	4.6	1.1	0.0	72.8	73.5	74.0	1.2	0.5
6	7.23600	45.0	45.6	38.5	38.2	5.8	0.5	0.0	51.6	52.2	74.0	22.4	21.8
7	9.64800	46.6	46.9	38.4	38.5	7.4	0.5	0.0	54.4	54.7	74.0	19.6	19.3
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
8	12.06000	45.6	45.7	43.0	38.5	8.5	0.5	0.0	49.6	49.7	74.0	24.4	24.3
9	14.47283	45.5	46.0	41.8	38.5	8.7	0.6	0.0	48.6	49.1	74.0	25.4	24.9
10	16.88484	46.9	47.2	43.4	38.5	8.6	0.6	0.0	51.5	51.8	74.0	22.5	22.2
11	19.29685	47.7	47.2	38.4	38.5	9.8	1.1	0.0	49.0	48.5	74.0	25.0	25.5
12	21.70885	47.8	47.8	38.8	38.5	10.2	0.5	0.0	49.3	49.3	74.0	24.7	24.7
13	24.12085	47.9	48.7	39.3	38.5	11.3	0.7	0.0	51.2	52.0	74.0	22.8	22.0

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER						HOR [dBuV/m]	VER		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.03240	39.5	48.9	25.2	39.0	1.6	0.0	0.0	27.3	36.7	54.0	26.7	17.3
2	1.44496	39.2	44.8	26.6	38.6	1.8	0.0	0.0	29.0	34.6	54.0	25.0	19.4
3	1.65150	40.1	44.9	27.9	38.4	1.9	0.0	0.0	31.5	36.3	54.0	22.5	17.7
4	2.03802	36.0	39.9	30.5	38.0	2.1	0.0	0.0	30.6	34.5	54.0	23.4	19.5
5	4.82400	32.4	32.4	35.3	38.0	4.6	1.1	0.0	35.4	35.4	54.0	18.6	18.6
6	7.23600	32.3	32.3	38.5	38.2	5.8	0.5	0.0	38.9	38.9	54.0	15.1	15.1
7	9.64882	33.7	33.8	38.4	38.5	7.4	0.5	0.0	41.5	41.6	54.0	12.5	12.4
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
8	12.06082	32.7	32.9	43.0	38.5	8.5	0.5	0.0	36.7	36.9	54.0	17.3	17.1
9	14.47283	32.3	32.8	41.8	38.5	8.7	0.6	0.0	35.4	35.9	54.0	18.6	18.1
10	16.88484	34.2	34.3	43.4	38.5	8.6	0.6	0.0	38.8	38.9	54.0	15.2	15.1
11	19.29685	34.6	34.6	38.4	38.5	9.8	1.1	0.0	35.9	35.9	54.0	18.1	18.1
12	21.70885	35.6	35.2	38.8	38.5	10.2	0.5	0.0	37.1	36.7	54.0	16.9	17.3
13	24.12085	35.9	36.0	39.3	38.5	11.3	0.7	0.0	39.2	39.3	54.0	14.8	14.7

Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1) = 9.5$ dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co., Ltd.
EQUIPMENT : Wireless LAN builtin PC
MODEL : CF-P1
S/N :
FCC ID : ACJ9TGCF-P11
POWER : AC120V/60Hz
Mode : Transmitting (ch6: 2437MHz)

REPORT NO : 22FE0029-YW
REGULATION : Fcc Part15SubpartC 247(b)(1)
TEST DISTANCE : 1m(10-26GHz)/3m(1-10GHz)
DATE : 2002/1/28
Temperature : 24degrees centigrade
Humidity : 34%


ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER						HOR	VER		HOR	VER
		[dBuV]							[dBuV/m]			[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.03262	50.1	54.7	25.2	39.0	1.6	0.0	0.0	37.9	42.5	74.0	36.1	31.5
2	1.44518	49.8	50.8	26.6	38.6	1.8	0.0	0.0	39.6	40.6	74.0	34.4	33.4
3	1.65034	50.0	53.0	27.9	38.4	1.9	0.0	0.0	41.4	44.4	74.0	32.6	29.6
4	2.06297	45.9	47.7	20.5	38.0	2.1	0.0	0.0	30.5	32.3	74.0	43.5	41.7
5	4.87400	70.2	70.2	35.5	37.9	4.7	1.1	0.0	73.6	73.6	74.0	0.4	0.4
6	7.31100	44.8	43.8	38.6	38.2	5.8	0.5	0.0	51.5	50.5	74.0	22.5	23.5
7	9.74800	46.0	46.8	38.4	38.5	7.5	0.5	0.0	53.9	54.7	74.0	20.1	19.3
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
8	12.18500	45.9	46.0	43.1	38.5	8.5	0.5	0.0	50.0	50.1	74.0	24.0	23.9
9	14.62200	45.1	44.9	42.1	38.5	8.9	0.5	0.0	48.6	48.4	74.0	25.4	25.6
10	17.05900	46.4	46.0	43.5	38.5	8.7	0.6	0.0	51.2	50.8	74.0	22.8	23.2
11	19.49600	47.9	47.5	38.1	38.5	9.9	1.3	0.0	49.2	48.8	74.0	24.8	25.2
12	21.93300	48.3	47.9	38.7	38.5	10.5	0.3	0.0	49.8	49.4	74.0	24.2	24.6
13	24.37000	48.9	48.2	39.4	38.5	11.6	0.8	0.0	52.7	52.0	74.0	21.3	22.0

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER						HOR	VER		HOR	VER
		[dBuV]							[dBuV/m]			[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.03262	40.3	48.2	25.2	39.0	1.6	0.0	0.0	28.1	36.0	54.0	25.9	18.0
2	1.44518	37.6	41.7	26.6	38.6	1.8	0.0	0.0	27.4	31.5	54.0	26.6	22.5
3	1.65034	40.3	43.3	27.9	38.4	1.9	0.0	0.0	31.7	34.7	54.0	22.3	19.3
4	2.06297	35.3	39.4	20.5	38.0	2.1	0.0	0.0	19.9	24.0	54.0	34.1	30.0
5	4.87400	33.0	32.9	35.5	37.9	4.7	1.1	0.0	36.4	36.3	54.0	17.6	17.7
6	7.31100	32.6	32.6	38.6	38.2	5.8	0.5	0.0	39.3	39.3	54.0	14.7	14.7
7	9.74800	33.5	33.6	38.4	38.5	7.5	0.5	0.0	41.4	41.5	54.0	12.6	12.5
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
8	12.18500	33.4	32.9	43.1	38.5	8.5	0.5	0.0	37.5	37.0	54.0	16.5	17.0
9	14.62200	32.5	32.4	42.1	38.5	8.9	0.5	0.0	36.0	35.9	54.0	18.0	18.1
10	17.05900	33.6	33.6	43.5	38.5	8.7	0.6	0.0	38.4	38.4	54.0	15.6	15.6
11	19.49600	34.4	34.0	38.1	38.5	9.9	1.3	0.0	35.7	35.3	54.0	18.3	18.7
12	21.93300	35.7	34.7	38.7	38.5	10.5	0.3	0.0	37.2	36.2	54.0	16.8	17.8
13	24.37000	36.8	36.1	39.4	38.5	11.6	0.8	0.0	40.6	39.9	54.0	13.4	14.1

Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1) = 9.5$ dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

P. A12

DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co., Ltd.
EQUIPMENT : Wireless LAN builtin PC
MODEL : CF-P1
S/N :
FCC ID : ACJ9TGCF-P11
POWER : AC120V/60Hz
Mode : Transmitting (ch11: 2462MHz)

REPORT NO : 22FE0029-YW
REGULATION : Fcc Part15SubpartC 247(b)(1)
TEST DISTANCE : 1m(10-26GHz)/3m(1-10GHz)
DATE : 2002/1/28
Temperature : 24degrees centigrade
Humidity : 33%


ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER						HOR	VER		HOR	VER
		[dBuV]							[dBuV/m]			[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.03221	50.2	54.8	25.2	39.0	1.6	0.0	0.0	38.0	42.6	74.0	36.0	31.4
2	1.44524	49.7	51.8	26.6	38.6	1.8	0.0	0.0	39.5	41.6	74.0	34.5	31.1
3	1.65214	50.6	54.5	27.9	38.4	1.9	0.0	0.0	42.0	45.9	74.0	32.0	31.1
4	2.08767	46.2	45.6	30.6	38.0	2.1	0.0	0.0	40.9	40.3	74.0	33.1	31.1
5	4.92600	67.5	67.2	35.8	37.9	4.8	1.1	0.0	71.3	71.0	74.0	2.7	3.0
6	7.38654	45.1	45.0	38.7	38.3	5.9	0.5	0.0	51.9	51.8	74.0	22.1	22.2
7	9.84830	46.0	46.6	38.5	38.5	7.6	0.5	0.0	54.1	54.7	74.0	19.9	19.3
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
8	12.31000	45.0	45.7	43.3	38.5	8.4	0.5	0.0	49.2	49.9	74.0	24.8	24.1
9	14.77200	45.7	45.0	42.3	38.5	9.1	0.5	0.0	49.6	48.9	74.0	24.4	25.1
10	17.23400	46.8	46.7	38.2	38.5	8.9	0.6	0.0	46.5	46.4	74.0	27.5	27.6
11	19.69600	47.8	48.6	38.3	38.5	10.0	1.5	0.0	49.6	50.4	74.0	24.4	23.6
12	22.15800	46.9	47.2	38.7	38.5	10.6	0.3	0.0	48.5	48.8	74.0	25.5	25.2
13	24.62000	49.4	49.3	39.4	38.6	11.9	0.9	0.0	53.5	53.4	74.0	20.5	20.6

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	H-Pass Filter [dB]	ATTEN [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER						HOR	VER		HOR	VER
		[dBuV]							[dBuV/m]			[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + (High Pass or ATTEN).													
1	1.03221	40.4	46.2	25.2	39.0	1.6	0.0	0.0	28.2	34.0	54.0	25.8	20.0
2	1.44524	40.9	42.4	26.6	38.6	1.8	0.0	0.0	30.7	32.2	54.0	23.3	21.8
3	1.65214	39.8	43.5	27.9	38.4	1.9	0.0	0.0	31.2	34.9	54.0	22.8	19.1
4	2.08767	35.5	37.5	30.6	38.0	2.1	0.0	0.0	30.2	32.2	54.0	23.8	21.8
5	4.92600	32.8	32.7	35.8	37.9	4.8	1.1	0.0	36.6	36.5	54.0	17.4	17.5
6	7.38654	32.3	32.5	38.7	38.3	5.9	0.5	0.0	39.1	39.3	54.0	14.9	14.7
7	9.84830	33.6	33.3	38.5	38.5	7.6	0.5	0.0	41.7	41.4	54.0	12.3	12.6
Test distance 1.0meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass - Dfac													
8	12.31000	33.0	33.6	43.3	38.5	8.4	0.5	0.0	37.2	37.8	54.0	16.8	16.2
9	14.77200	32.5	32.5	42.3	38.5	9.1	0.5	0.0	36.4	36.4	54.0	17.6	17.6
10	17.23400	33.8	33.8	38.2	38.5	8.9	0.6	0.0	33.5	33.5	54.0	20.5	20.5
11	19.69600	35.3	35.7	38.3	38.5	10.0	1.5	0.0	37.1	37.5	54.0	16.9	16.5
12	22.15800	34.6	34.8	38.7	38.5	10.6	0.3	0.0	36.2	36.4	54.0	17.8	17.6
13	24.62000	36.7	36.9	39.4	38.6	11.9	0.9	0.0	40.8	41.0	54.0	13.2	13.0

Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0) = 9.5$ dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

P. A13

Restricted Band Edges(Radiated)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co.,Ltd.
EQUIPMENT : Wireless LAN builtin PC
MODEL : CF-P1
S/N : -
FCC ID : ACJ9TGF-P11
POWER : AC120V/60Hz
MODE : Transmitting(ch1:2412MHz)

REPORT No : 22FE0029-YW
REGULATION : Fcc Part15 SubpartC 247(b)(1)
TEST DISTANCE : 1m(10-26GHz)/3m(1-10GHz)
DATE : 2002/01/28
TEMPRATURE : 24degrees centigrade
HUMIDITY : 33%


ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]					HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Ch1	2.3900	67.4	68.5	31.2	38.1	2.5	6.0	69.0	70.1	74.0	5.0	3.9
Ch11	2.4835	51.1	46.5	31.4	38.1	2.6	6.0	53.0	48.4	74.0	21.1	25.6

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]					HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Ch1	2.3900	39.7	44.0	31.2	38.1	2.5	6.0	41.3	45.6	54.0	12.7	8.4
Ch11	2.4835	40.0	36.2	31.4	38.1	2.6	6.0	41.9	38.1	54.0	12.1	15.9

Sample Calculation :

RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + ATTEN

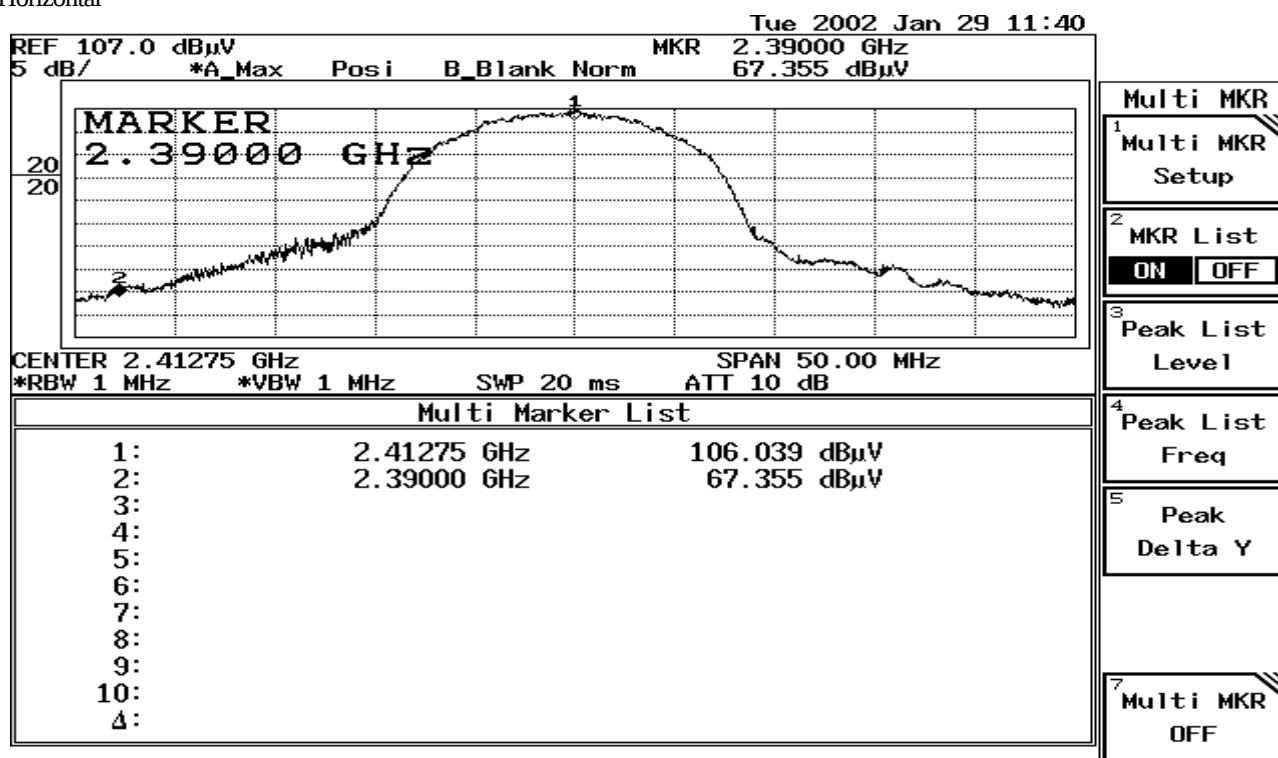
*Ch1: 2412MHz Transmitting

*C11: 2462MHz Transmitting

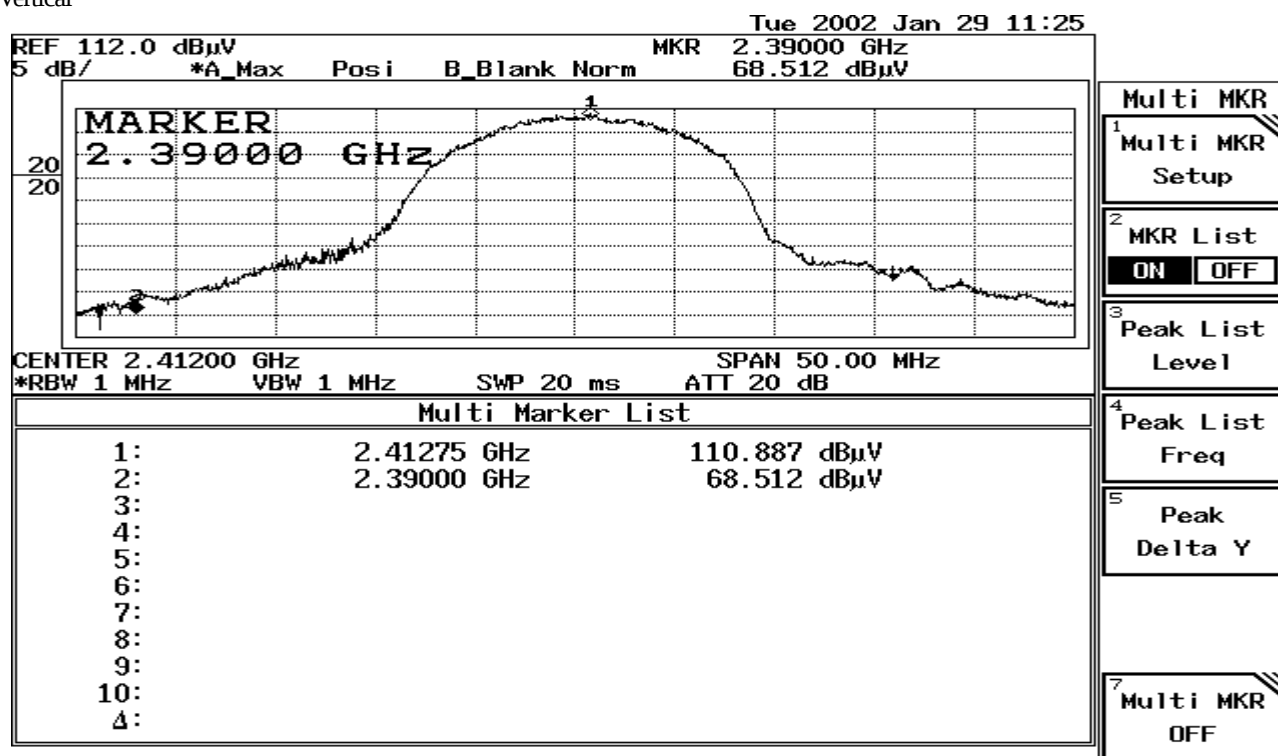
2.39GHz(Ch1)

PK Detector

1. Horizontal



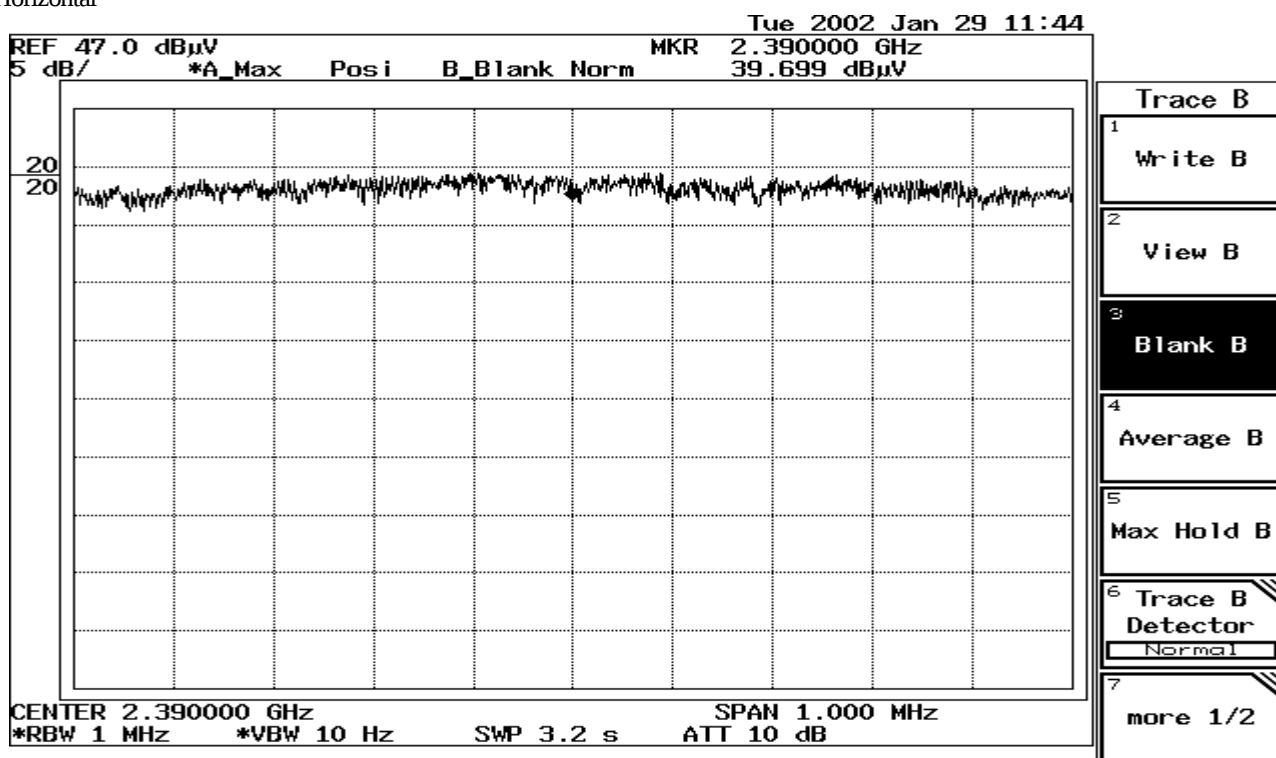
2. Vertical



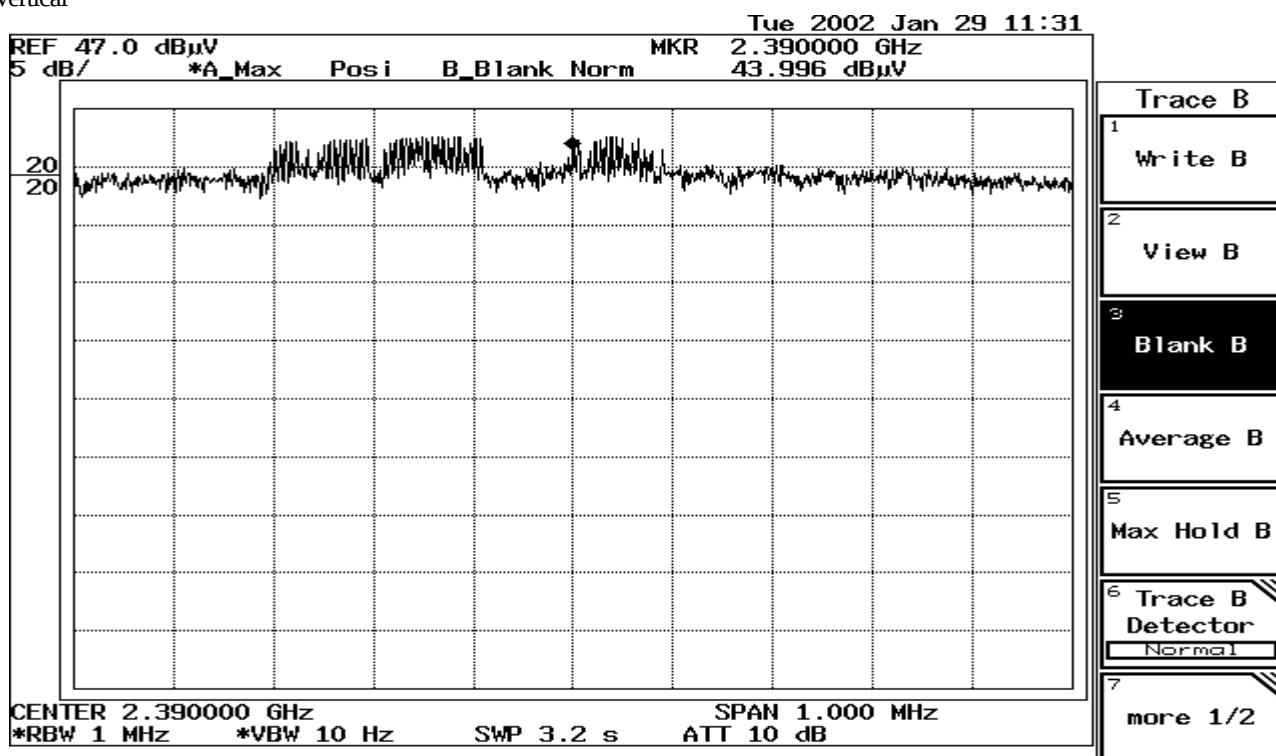
2.39GHz(Ch1)

AV Detector

1. Horizontal



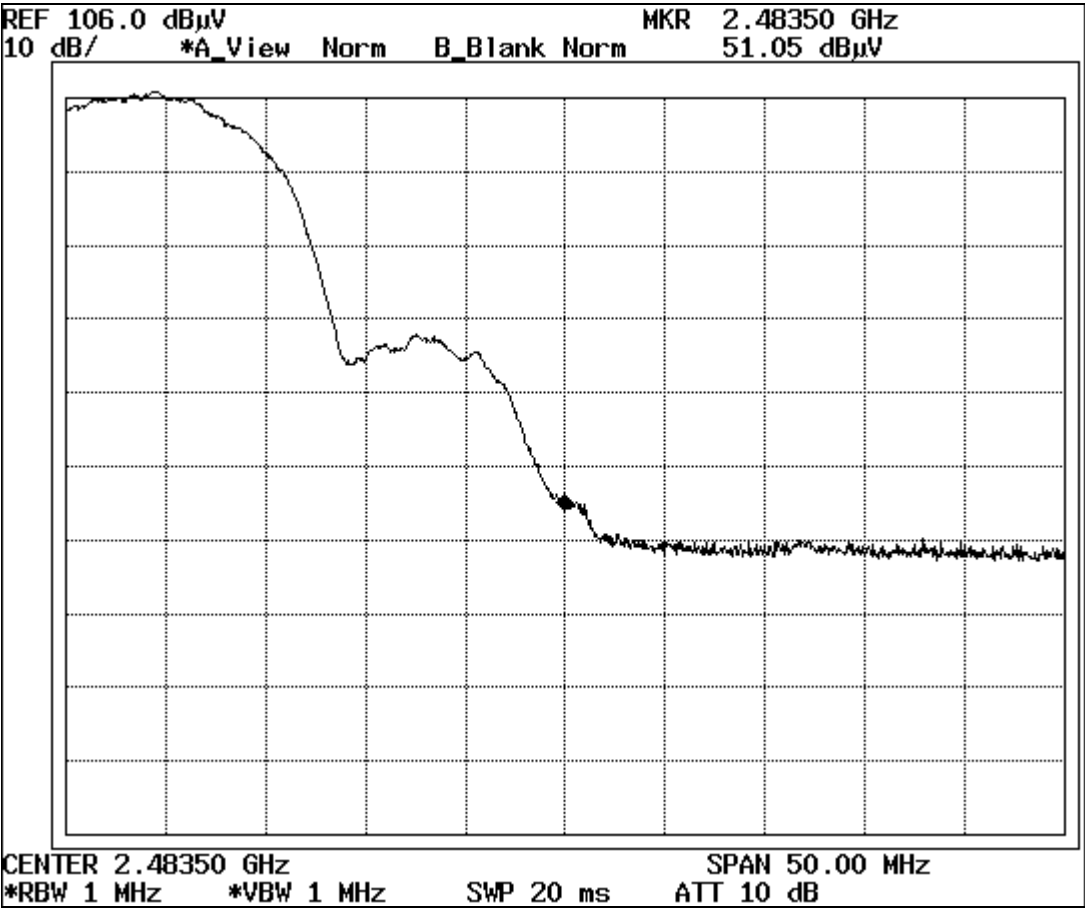
2. Vertical



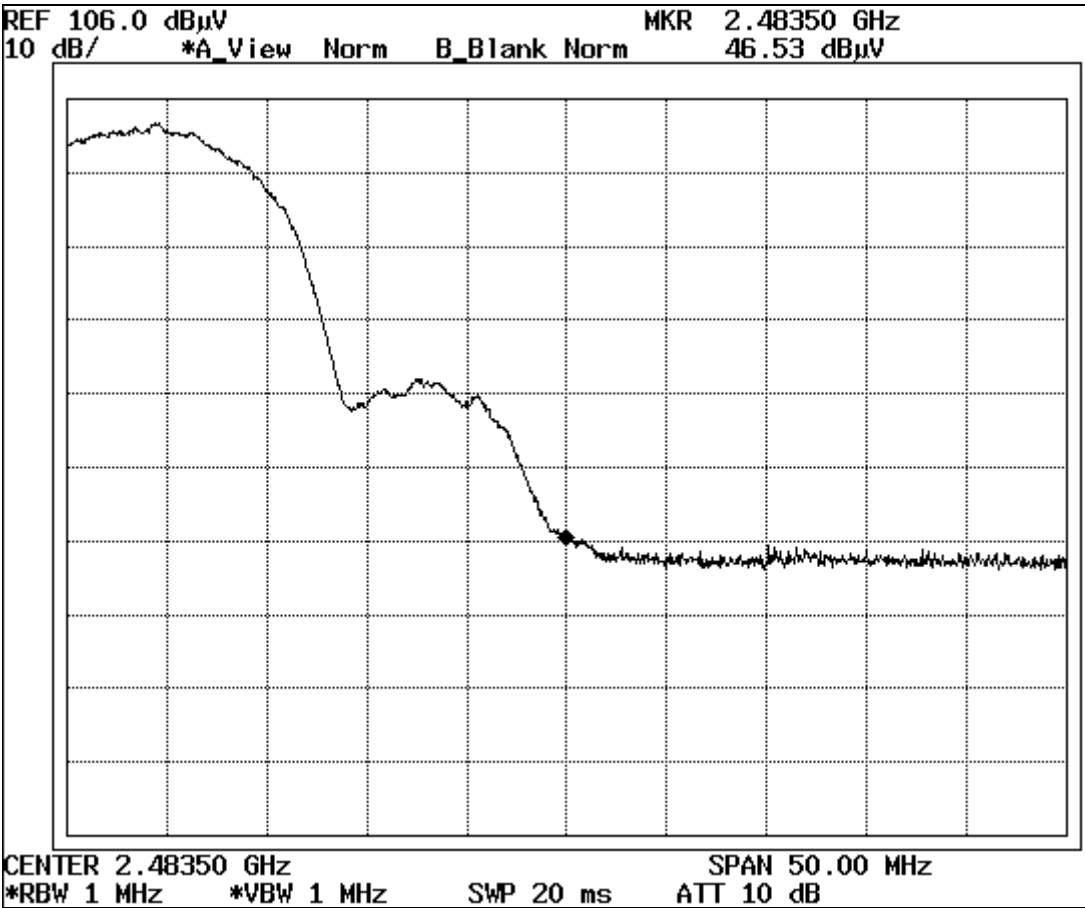
2.4835GHz(Ch11)

PK Detector

1. Horizontal



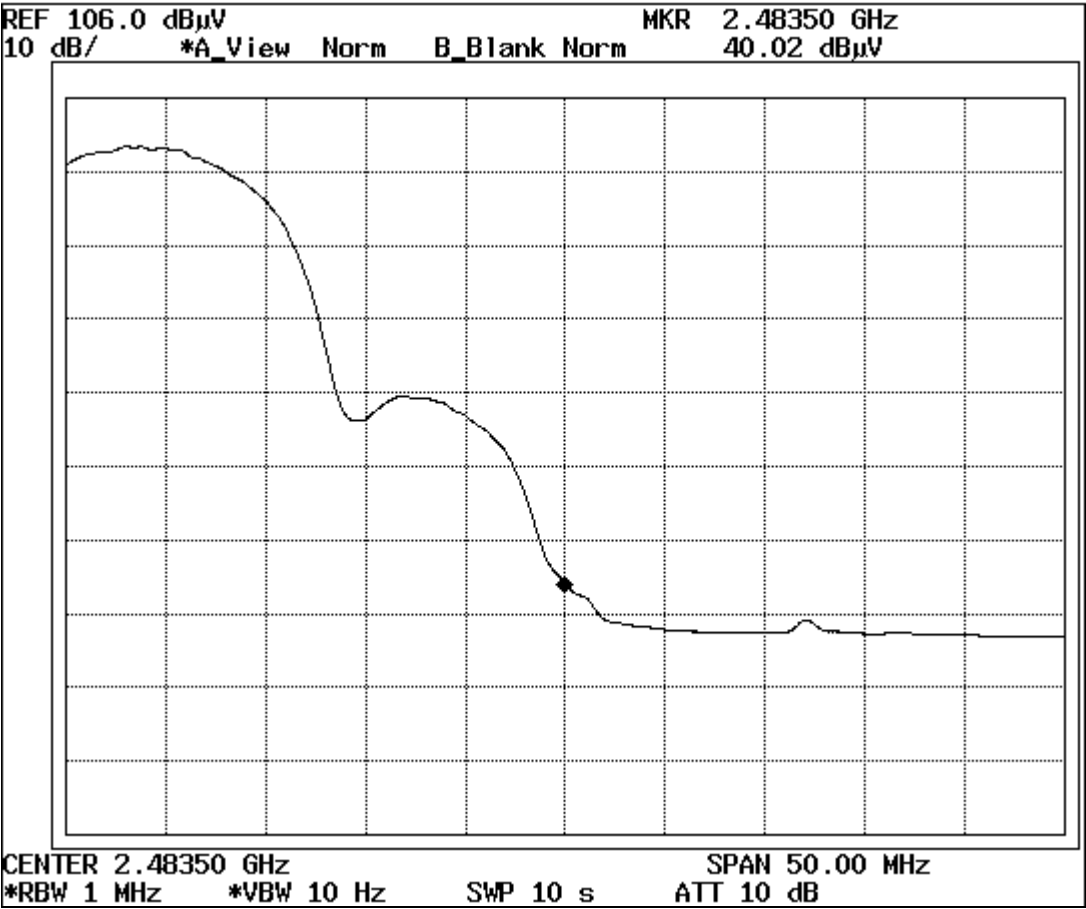
2. Vertical



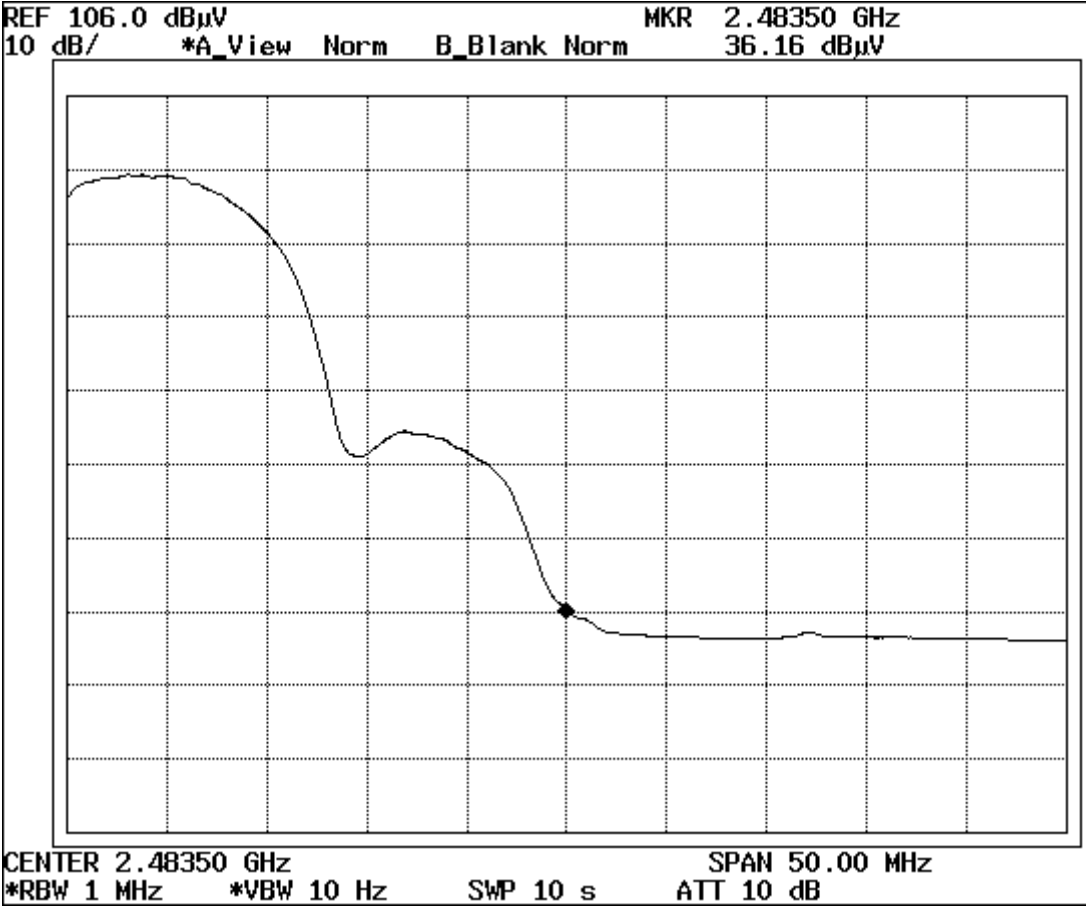
2.4835GHz(Ch11)

AV Detector

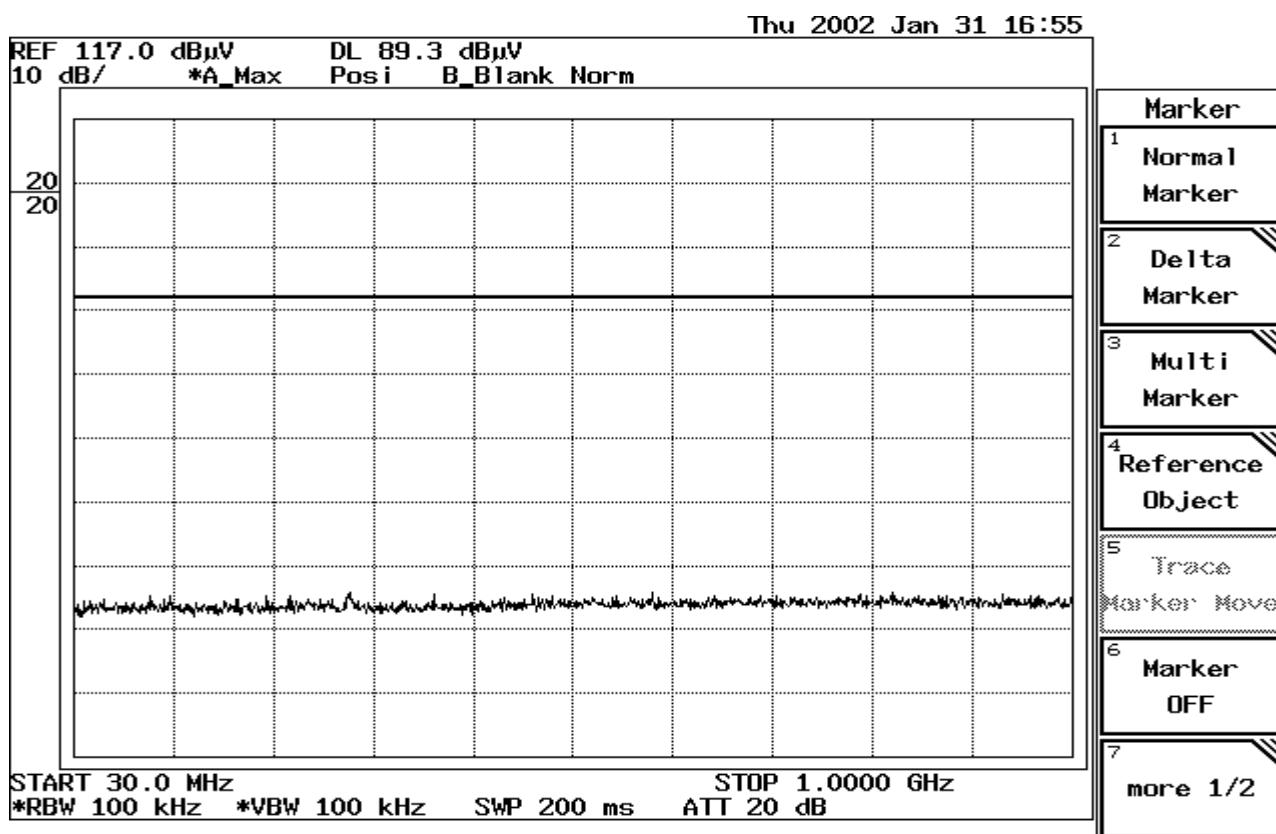
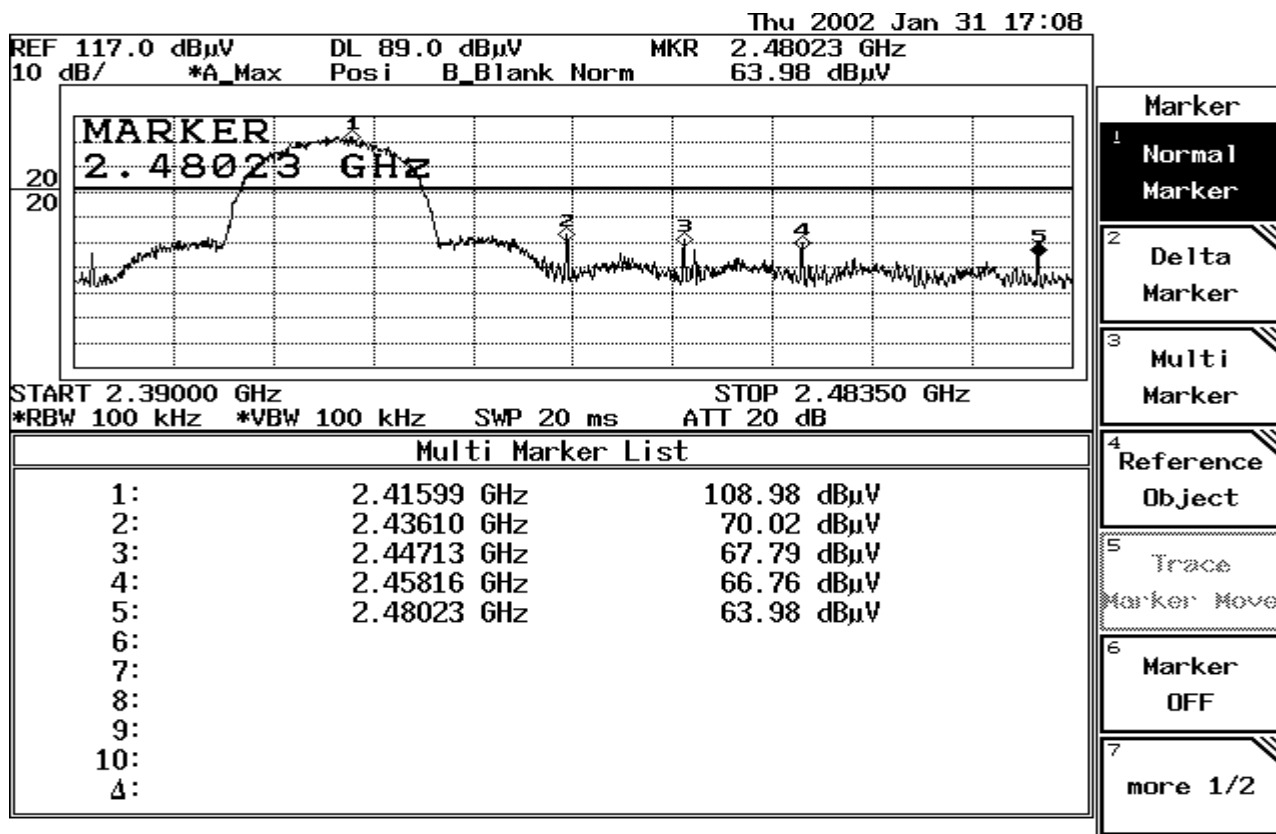
2. Horizontal



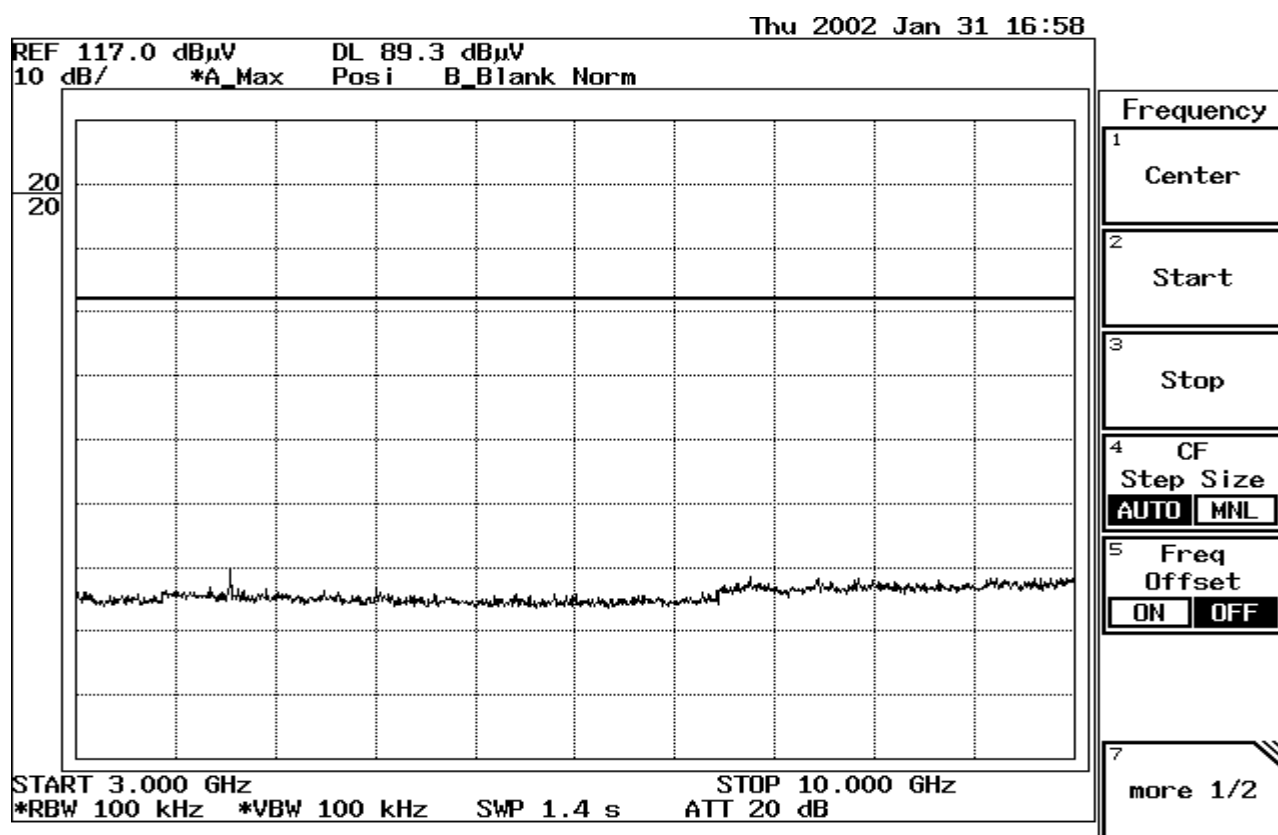
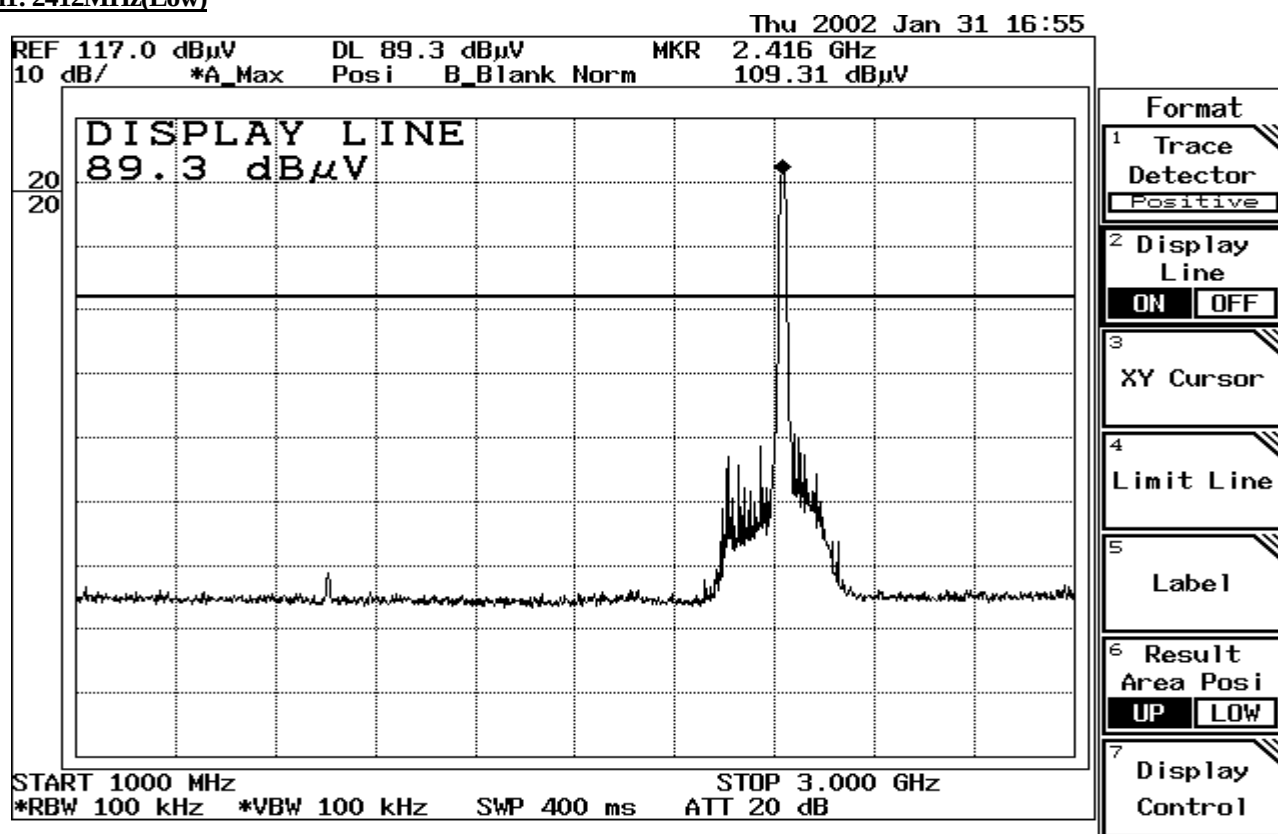
2. Vertical



Ch1: 2412MHz(Low)



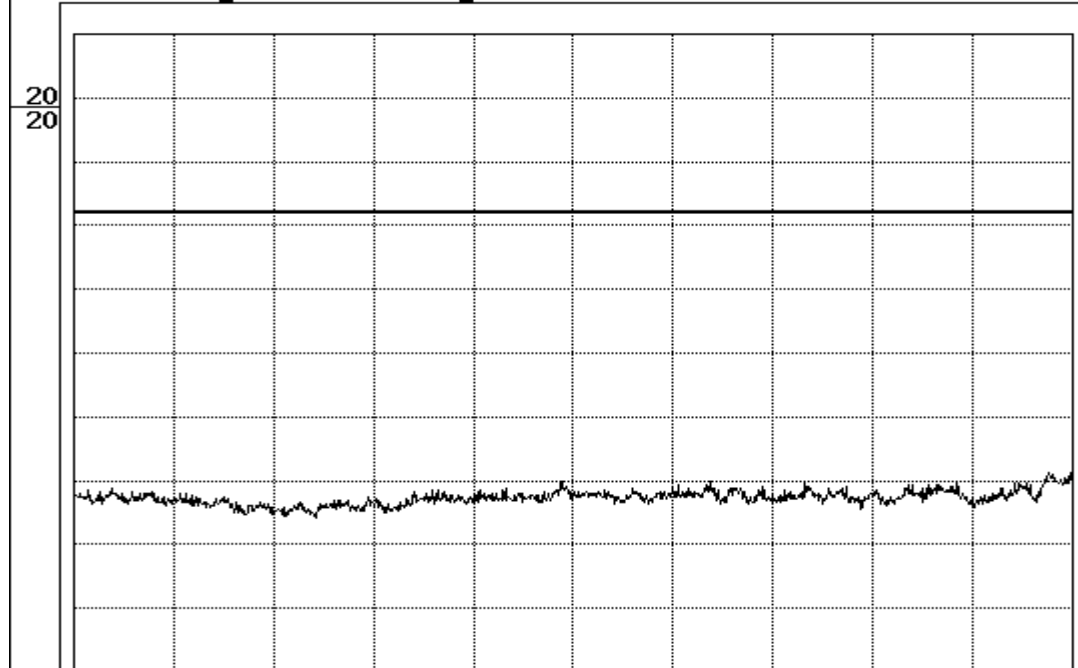
Ch1: 2412MHz(Low)



Ch1: 2412MHz(Low)

Thu 2002 Jan 31 17:00

REF 117.0 dBμV DL 89.3 dBμV
10 dB/ *A_Max Posi B_Blank Norm



START 10.0 GHz STOP 26.00 GHz
*RBW 100 kHz *VBW 100 kHz SWP 3.2 s ATT 20 dB

Frequency

1 Center

2 Start

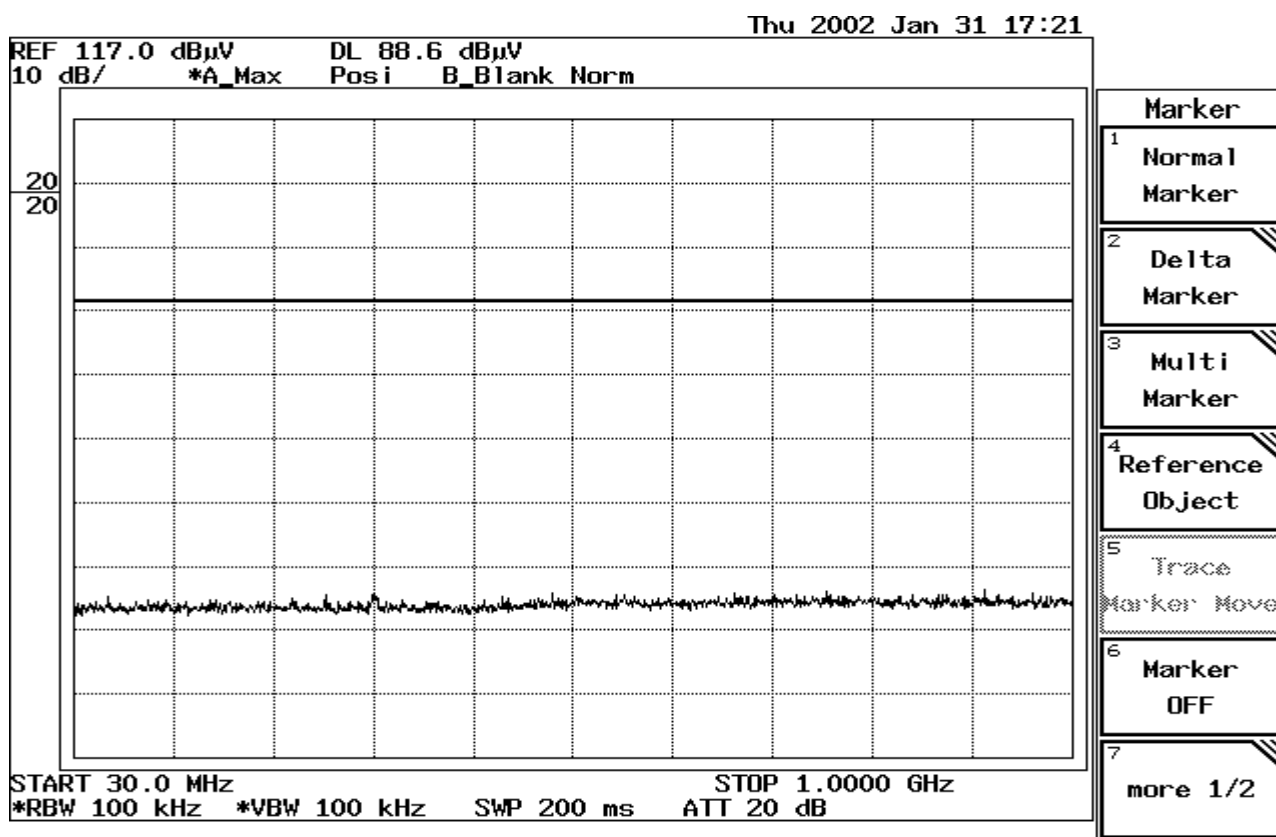
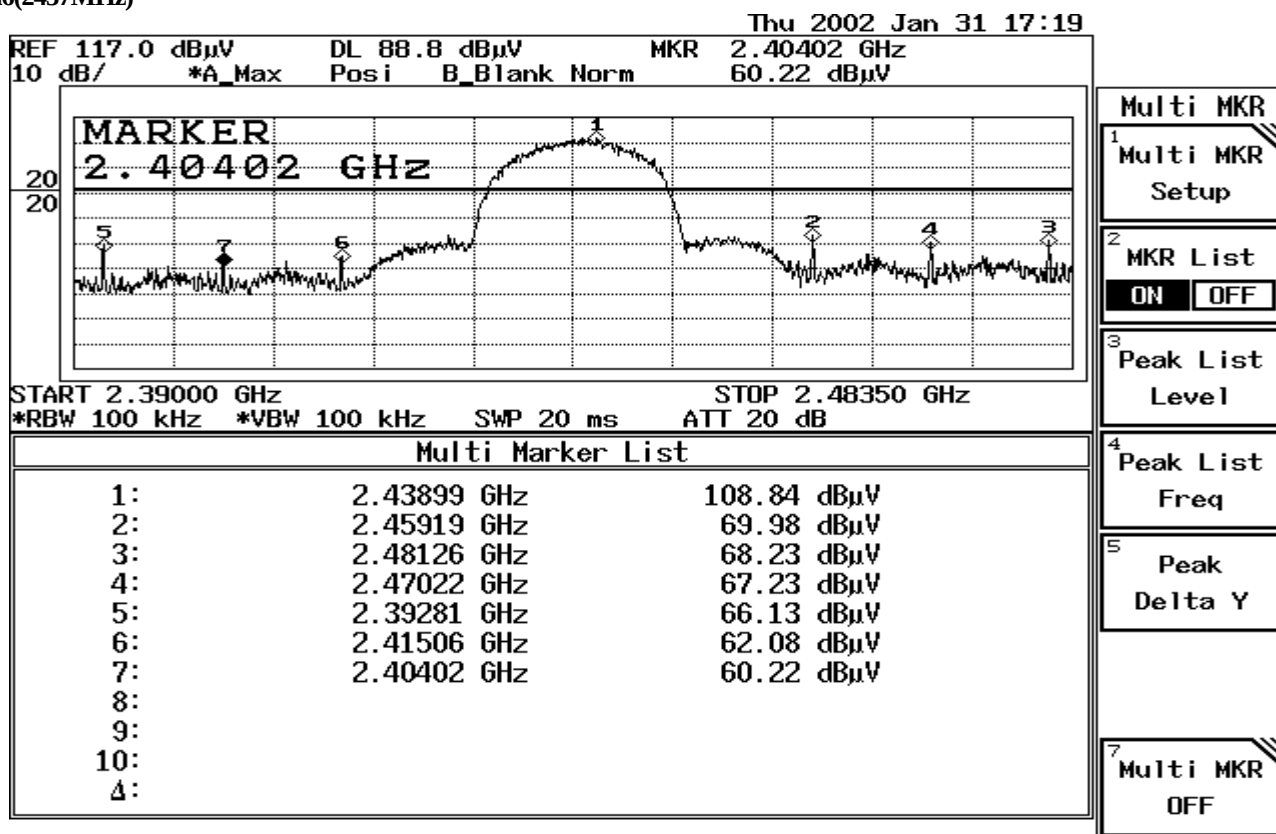
3 Stop

4 CF
Step Size
AUTO MNL

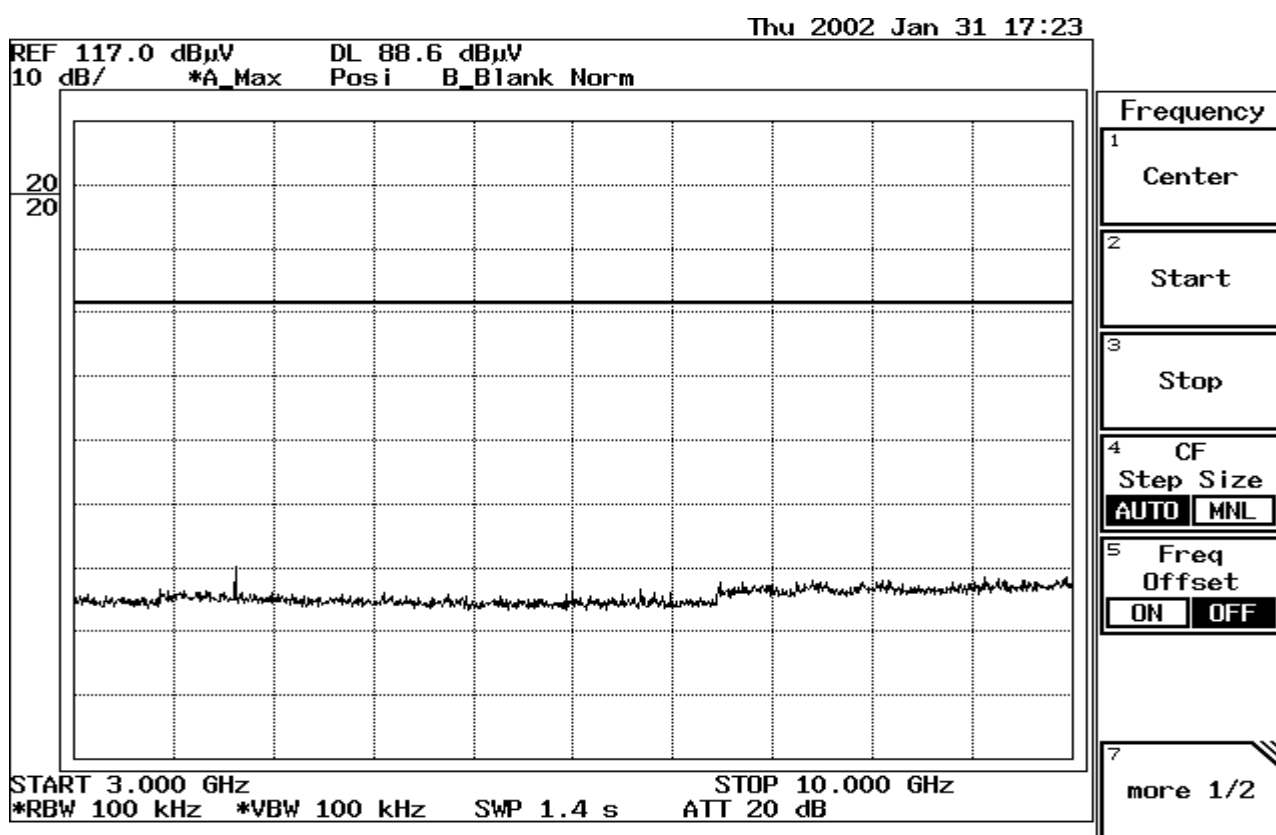
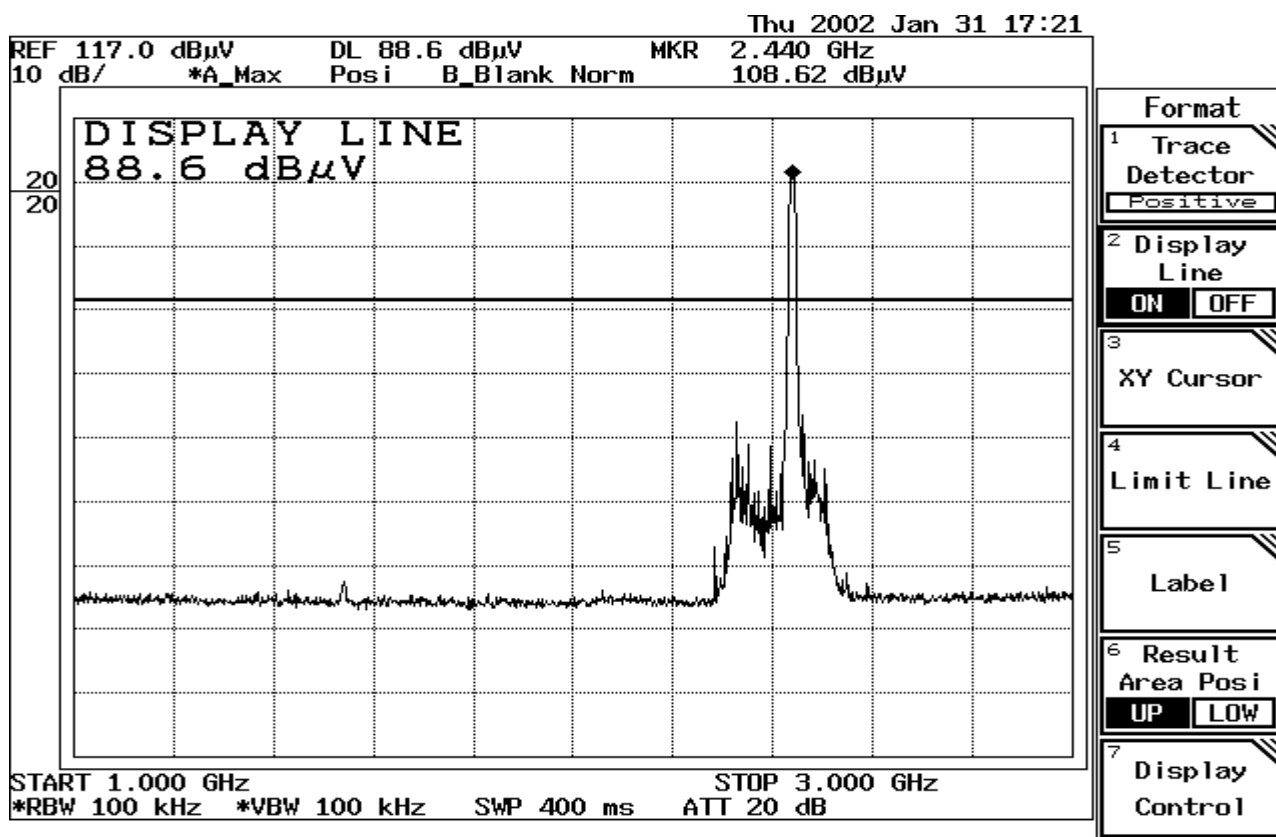
5 Freq
Offset
ON OFF

7
more 1/2

Ch6(2437MHz)



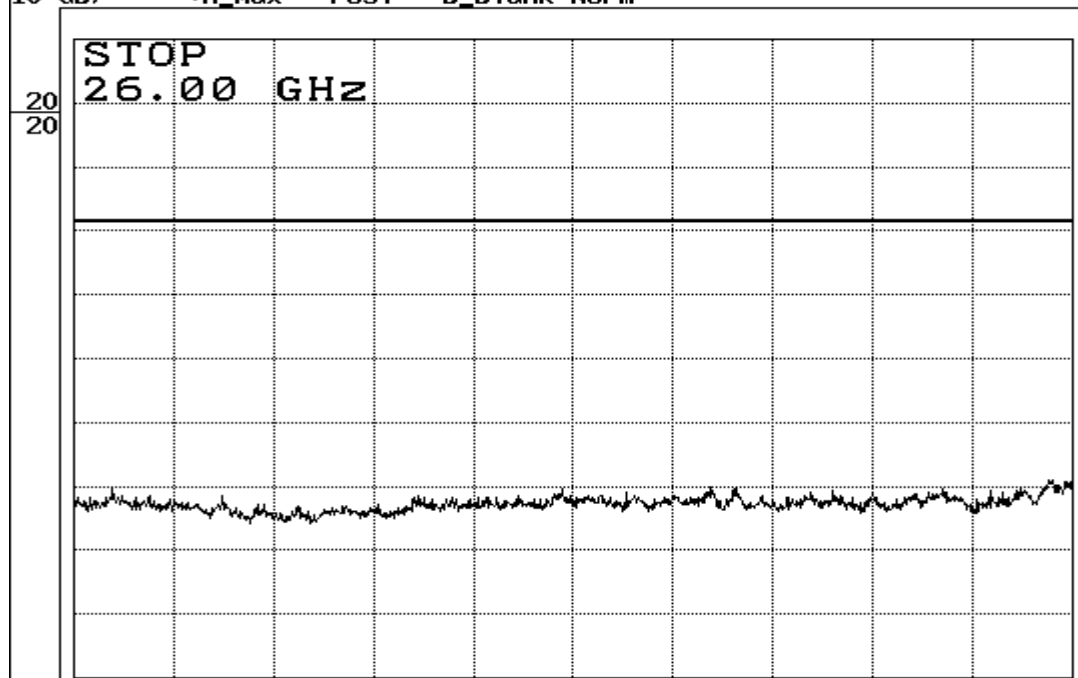
Ch6(2437MHz)



Ch6(2437MHz)

Thu 2002 Jan 31 17:24

REF 117.0 dBμV DL 88.6 dBμV
10 dB/ *A_Max Posi B_Blank Norm



START 10.0 GHz STOP 26.00 GHz
*RBW 100 kHz *VBW 100 kHz SWP 3.2 s ATT 20 dB

Frequency

1 Center

2 Start

3 Stop

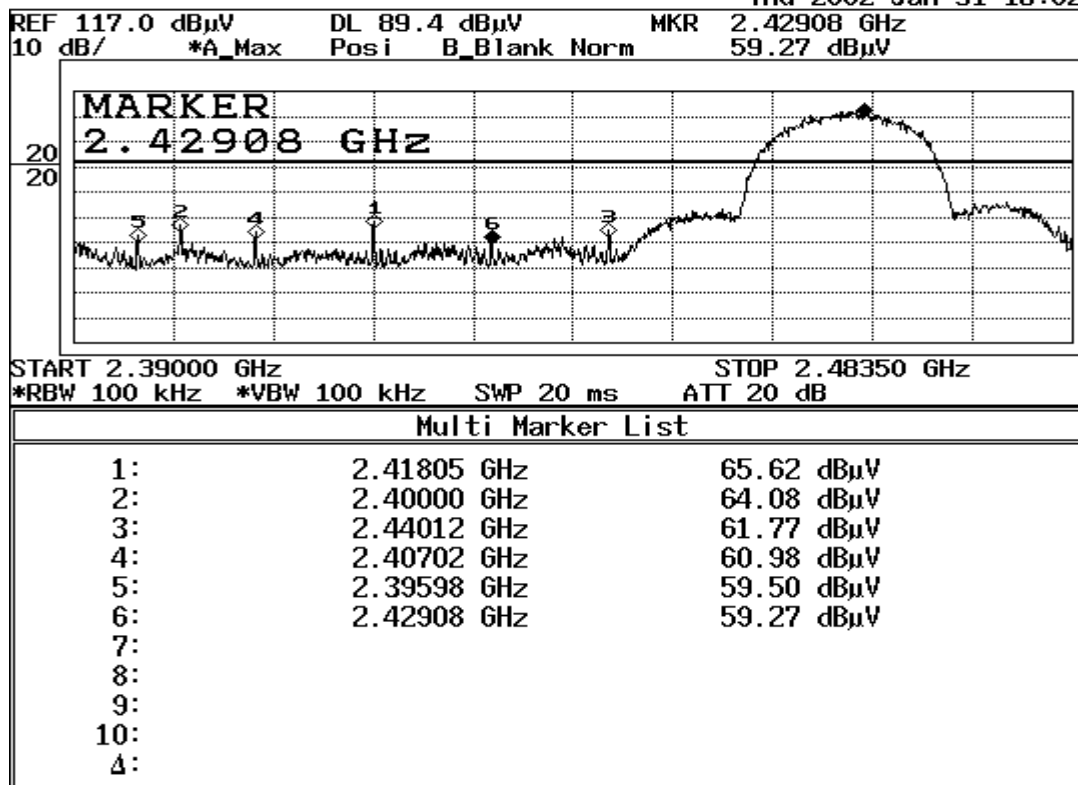
4 CF
Step Size
AUTO MNL

5 Freq
Offset
ON OFF

7 more 1/2

Ch11(2462MHz)

Thu 2002 Jan 31 18:02



Multi MKR

1 Multi MKR Setup

2 MKR List
 ON OFF

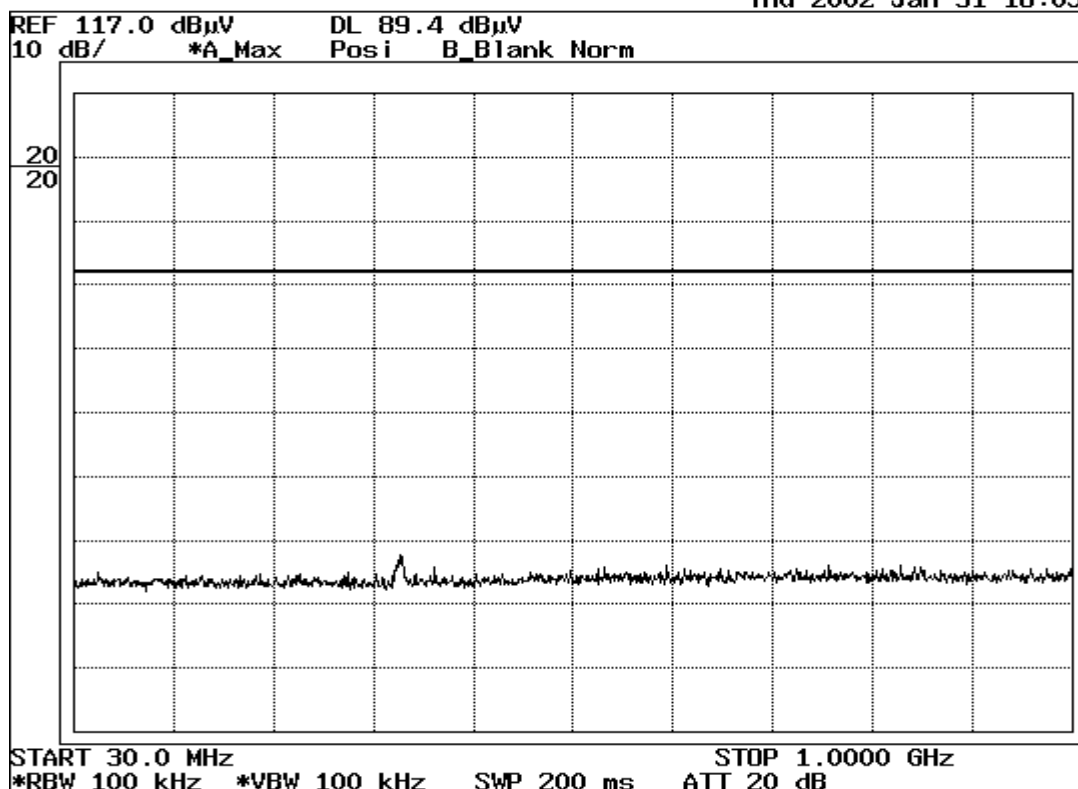
3 Peak List Level

4 Peak List Freq

5 Peak Delta Y

7 Multi MKR OFF

Thu 2002 Jan 31 18:05



Marker

1 Normal Marker

2 Delta Marker

3 Multi Marker

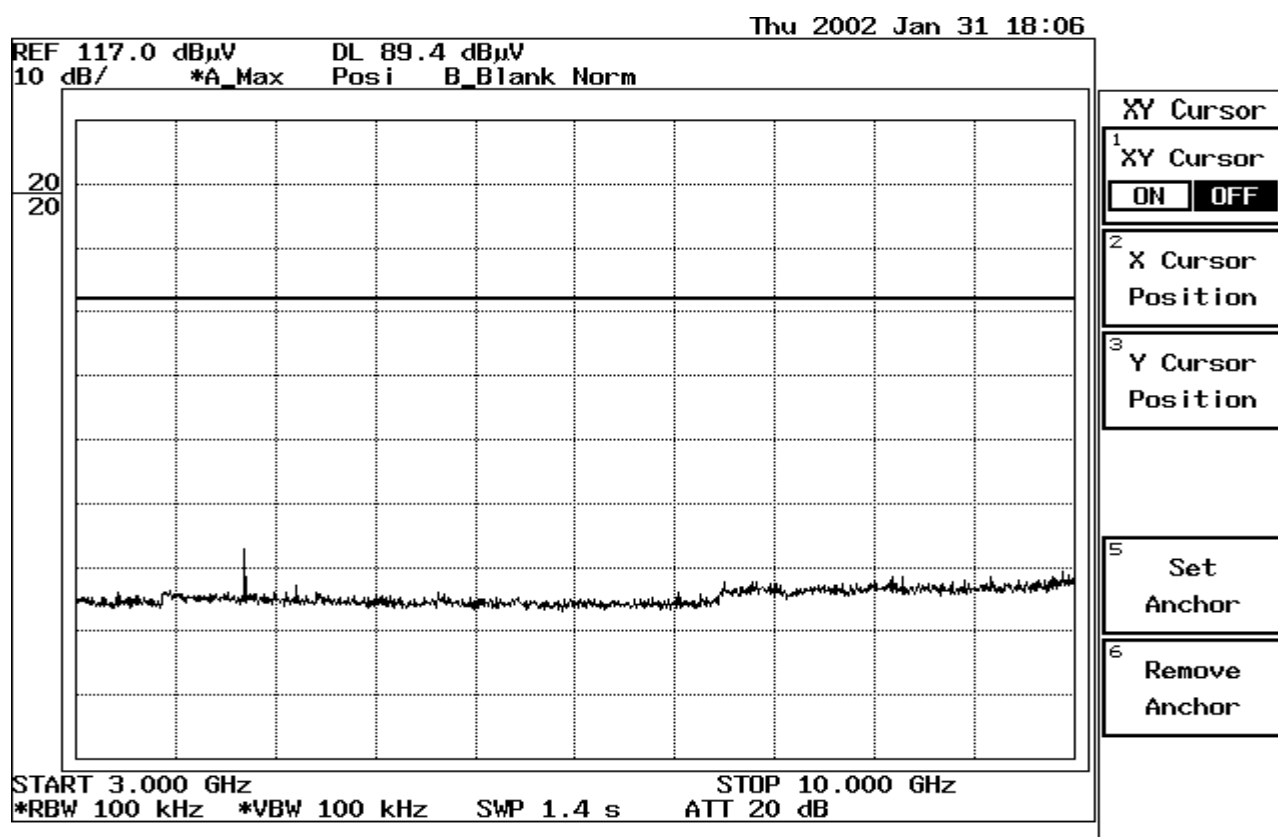
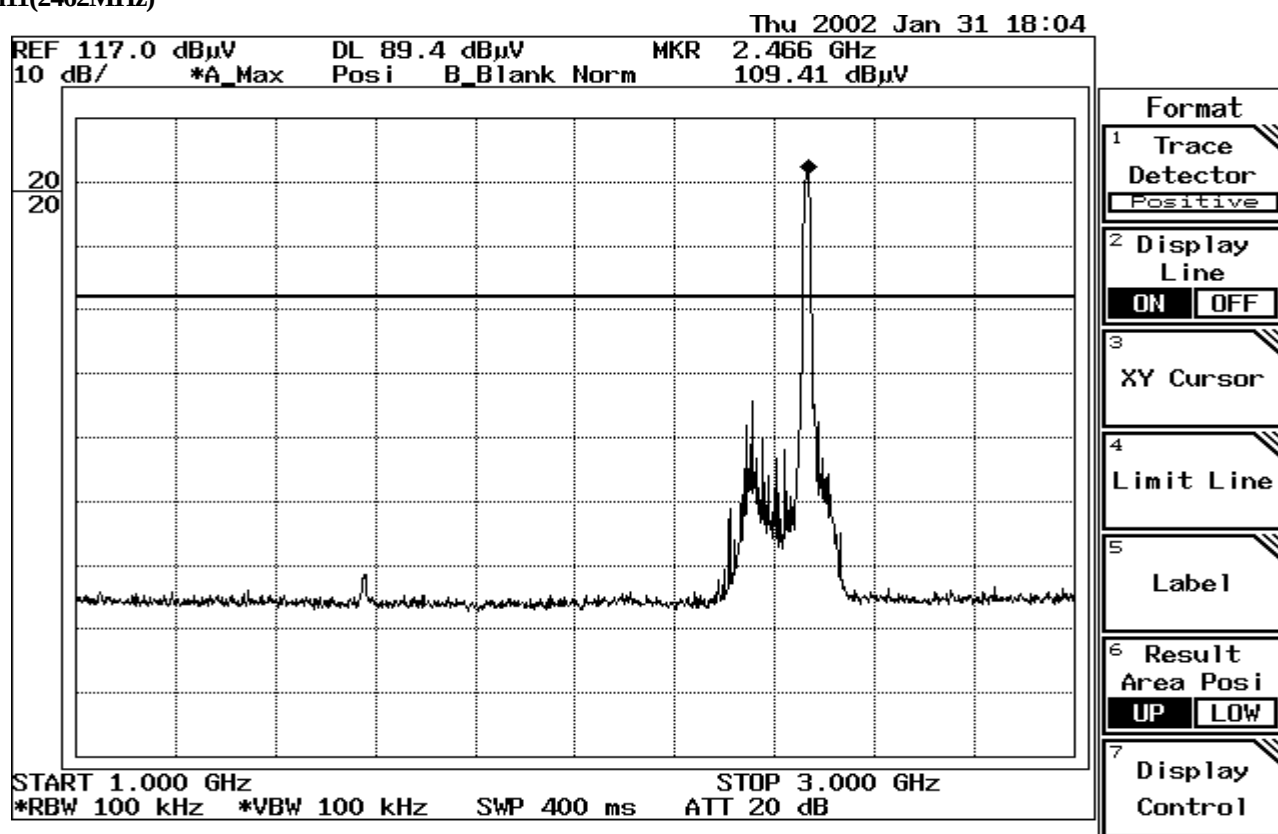
4 Reference Object

5 Trace Marker Move

6 Marker OFF

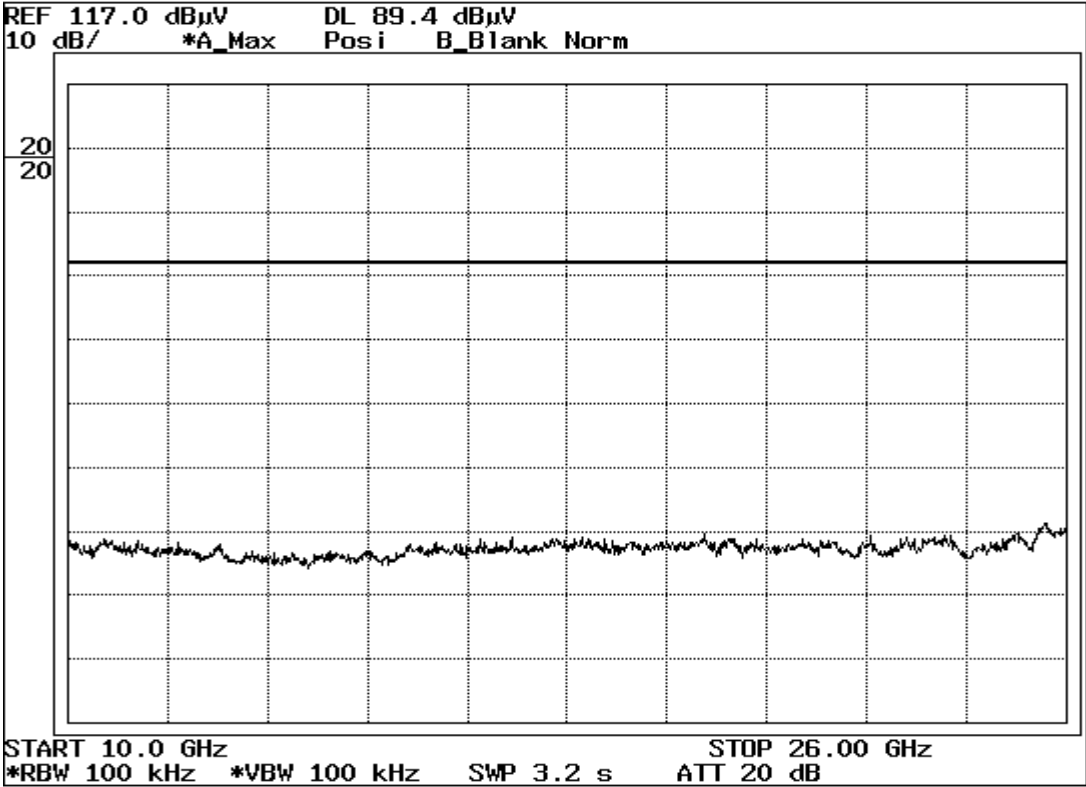
7 more 1/2

Ch11(2462MHz)



Ch11(2462MHz)

Thu 2002 Jan 31 18:08



Frequency

1 Center

2 Start

3 Stop

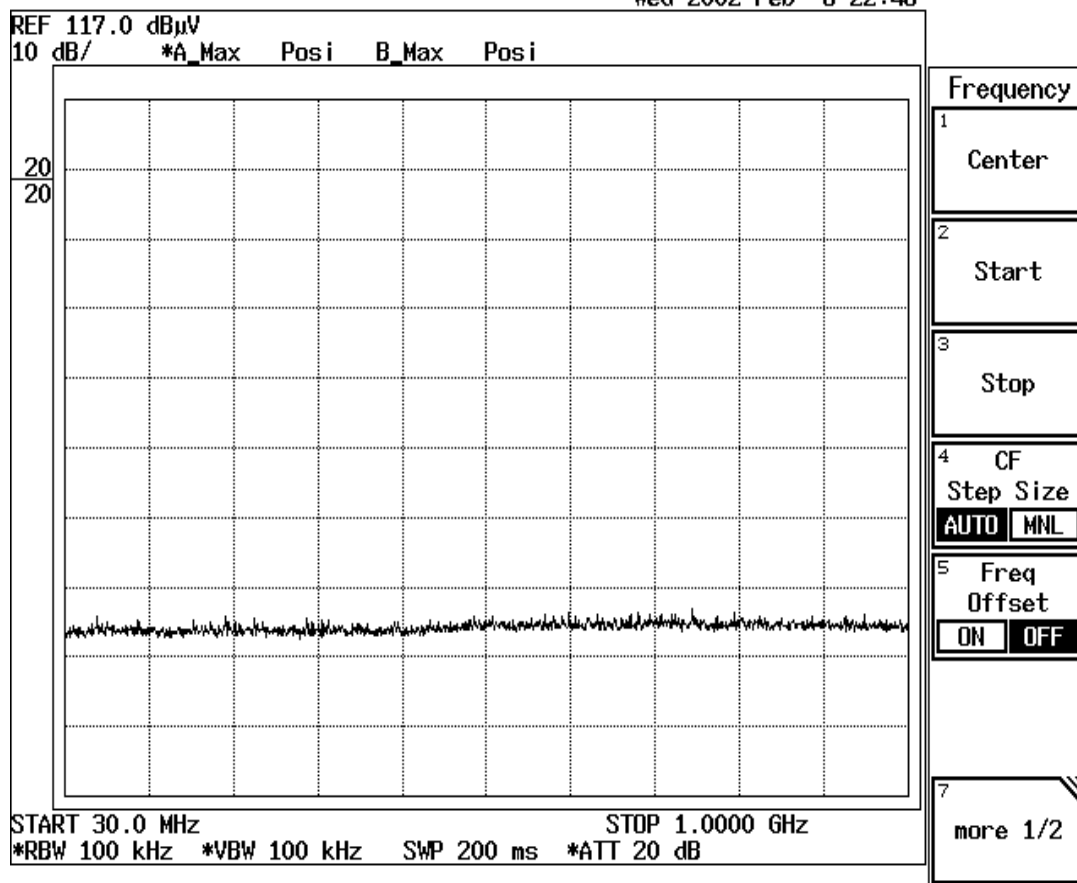
4 CF
Step Size
AUTO MNL

5 Freq
Offset
ON OFF

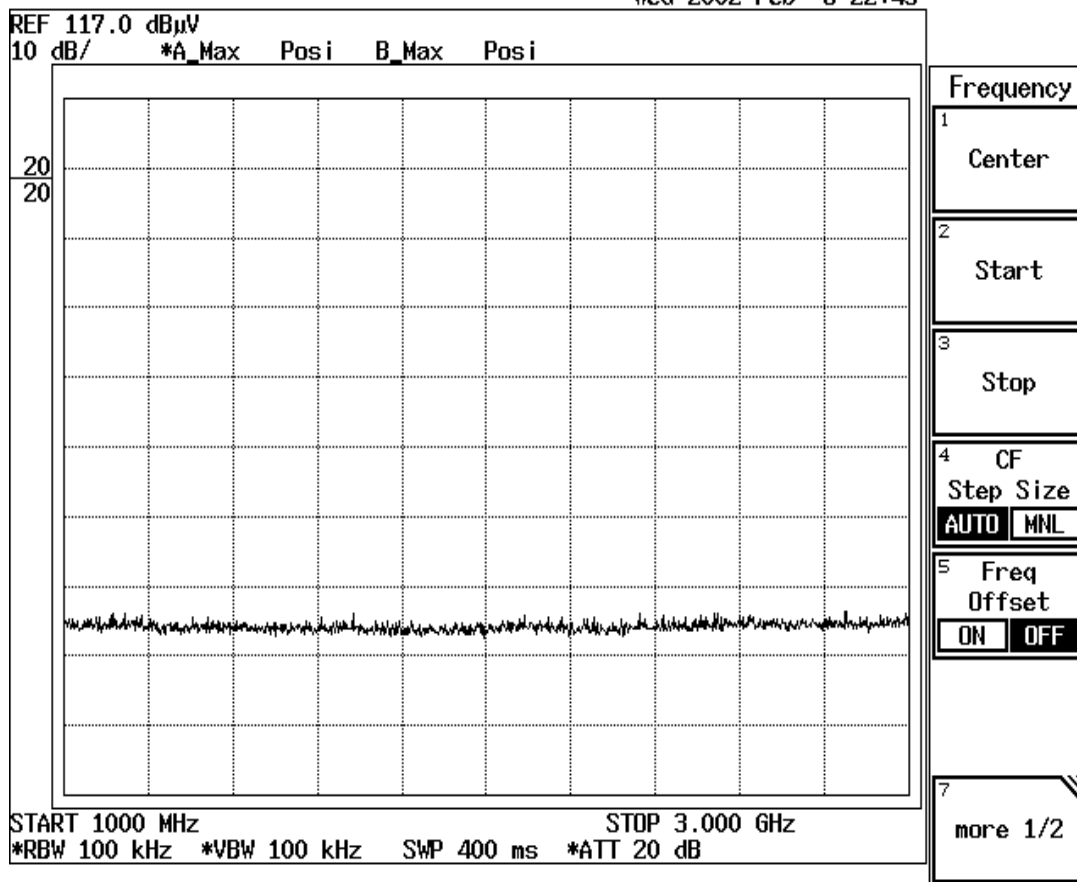
7 more 1/2

Receiving

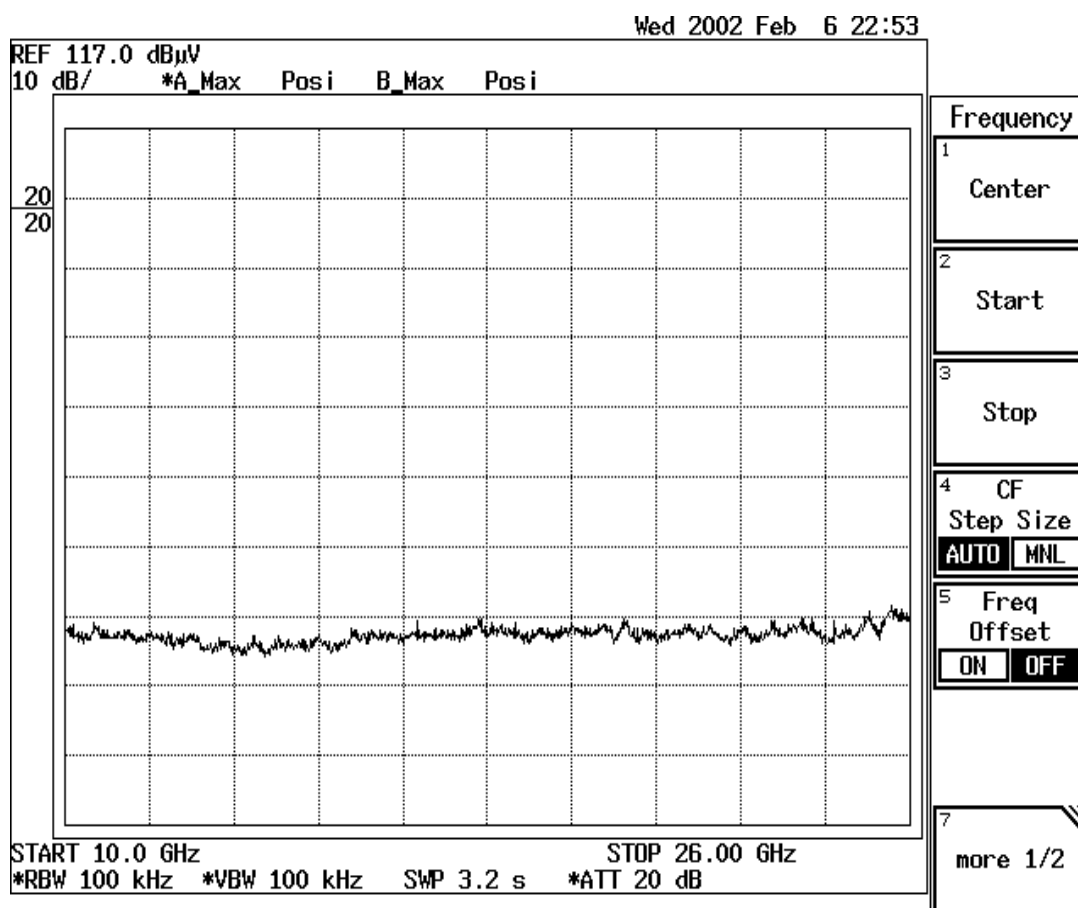
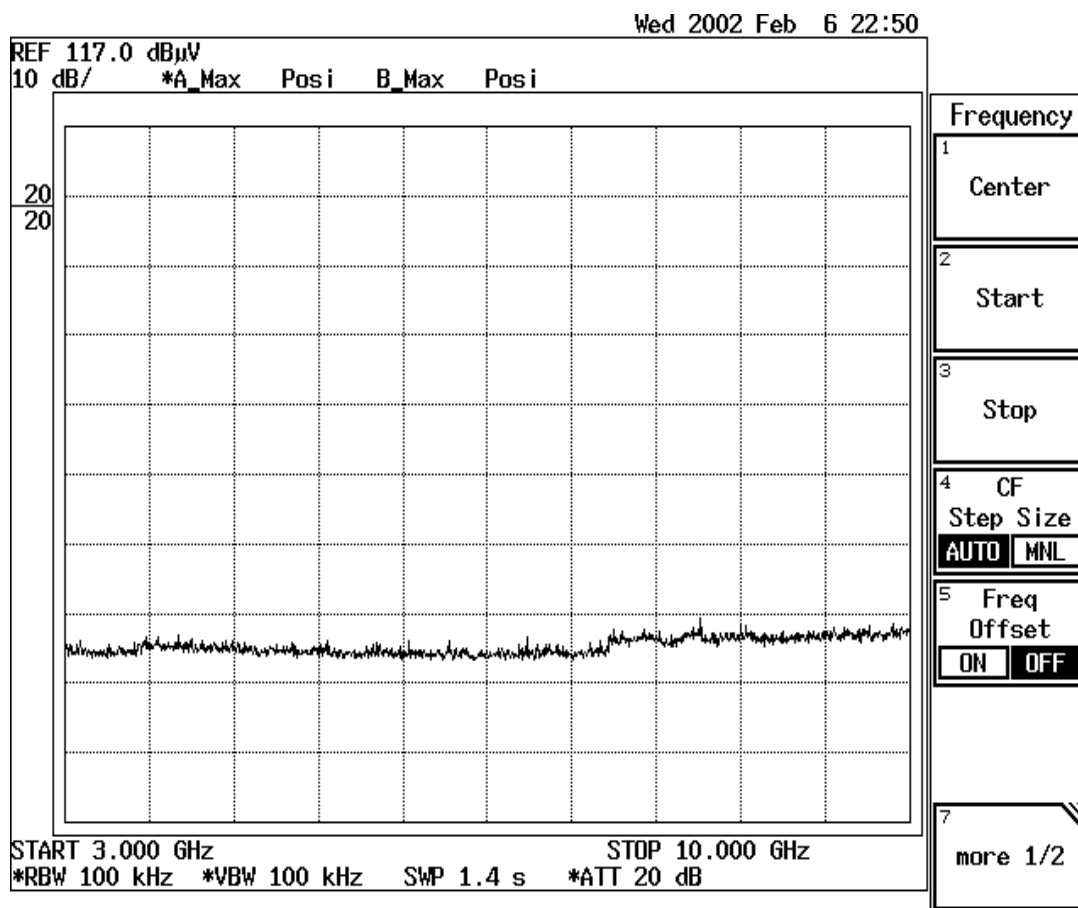
Wed 2002 Feb 6 22:48



Wed 2002 Feb 6 22:49



Receiving



Power Density(Conducted)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Matsushita Electric Industrial Co.,Ltd
EQUIPMENT : Wireless LAN builtin PC
MODEL : CF-P1
S/N : 1LKSA00006
FCC ID : ACJ9TGCF-P11
POWER : AC120V/60Hz
Mode : Transmitting

REPORT NO : 22FE0029-YW
REGULATION : Fcc Part15SubpartC 247 (d)
TEST DISTANCE :
DATE : 2002/1/31
Temp./Humi. : 19 /24%

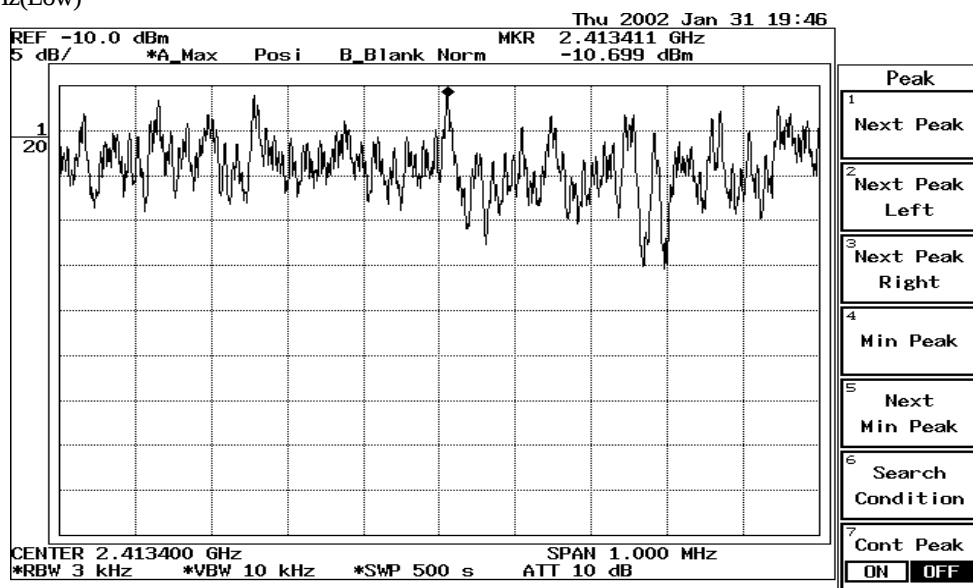

ENGINEER : Naoki Sakamoto

CH	FREQ [GHz]	S/A Reading [dBm]	Limit [dBm]	Margin [dB]
Low	2.4134	-10.7	8.0	18.7
Mid	2.4372	-11.2	8.0	19.2
High	2.4634	-10.1	8.0	18.1

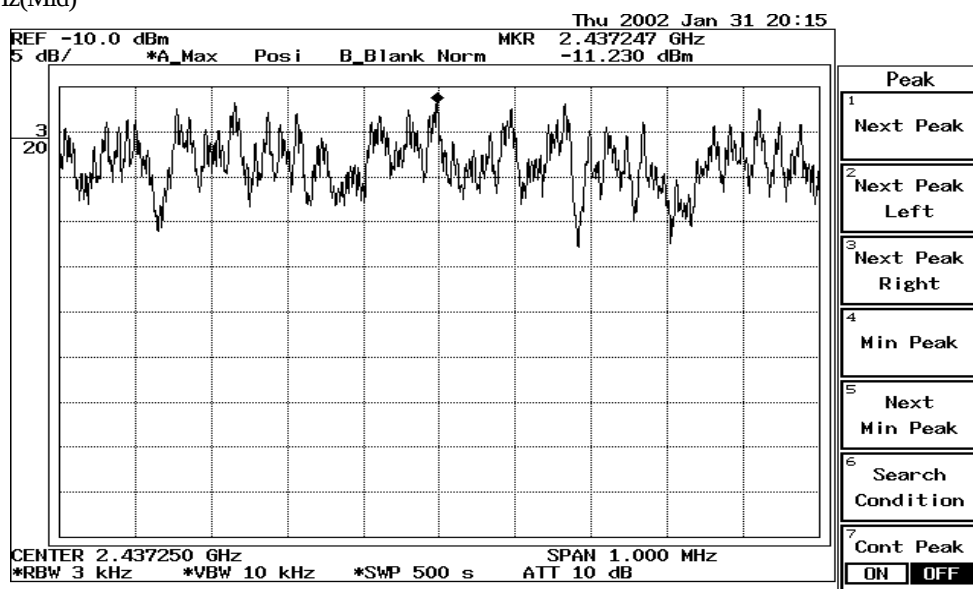
Sample Calculation :

RESULT=Reading(-107:Converted to dBm)

1. Ch1: 2412MHz(Low)



2. Ch6: 2437MHz(Mid)



3. Ch11: 2462MHz(Hi)

