

DATA OF CONDUCTION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22DE0036-YW-2

Applicant : DENSO WAVE INCORPORATED
Kind of Equipment : BARCODE HANDY TERMINAL
Model No. : BHT-100BF
Serial No. : 5496310181100005
Power : DC3.6V(AC120V/60Hz)
Node : Transmitting
Remarks : FCC ID: PZWBHT-100F
Date : 11/27/2001
Phase : Single Phase
Temperature : 26 °C
Humidity : 25 %
Regulation : FCC Part15.207



Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dBuV]	AV	QP [dBuV]	AV				QP [dBuV]	AV	QP [dBuV]	AV	QP [dB]	AV
1.	0.4500	45.8	-	38.6	-	0.1	0.1	0.0	46.0	-	48.0	0.0	2.0	-
2.	0.8775	29.4	-	18.5	-	0.1	0.1	0.0	29.6	-	48.0	0.0	18.4	-
3.	1.3610	22.6	-	10.8	-	0.1	0.1	0.0	22.8	-	48.0	0.0	25.2	-
4.	2.3492	11.6	-	8.1	-	0.1	0.2	0.0	11.9	-	48.0	0.0	36.1	-
5.	9.2219	14.0	-	12.4	-	0.3	0.3	0.0	14.6	-	48.0	0.0	33.4	-
6.	24.0031	18.6	-	19.2	-	0.8	0.4	0.0	20.4	-	48.0	0.0	27.6	-
7.	28.4479	24.0	-	24.5	-	1.0	0.5	0.0	26.0	-	48.0	0.0	22.0	-

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

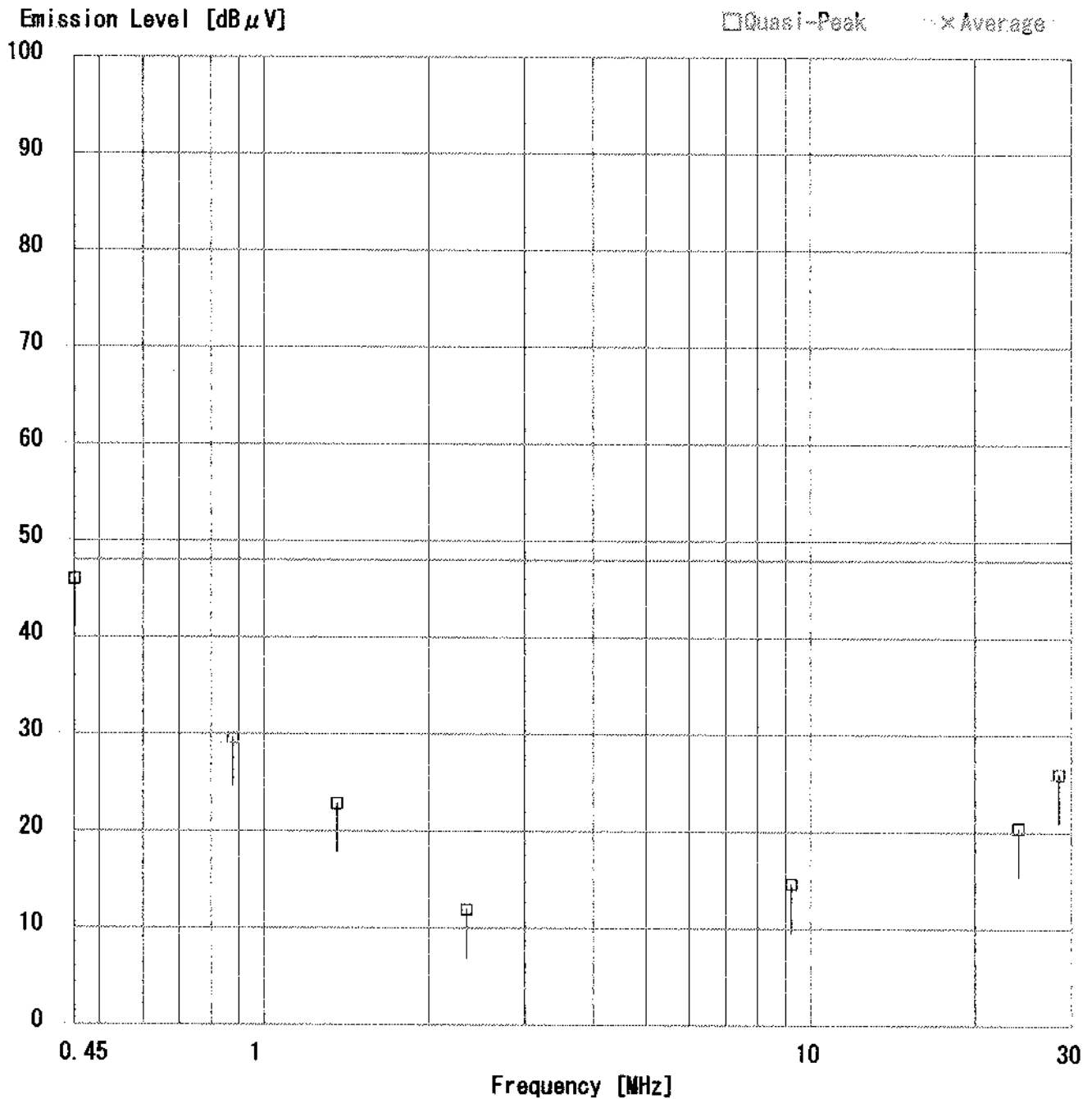
All other spurious emissions are more than 20dB below the limits.

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Engineer : Naoki Sakamoto

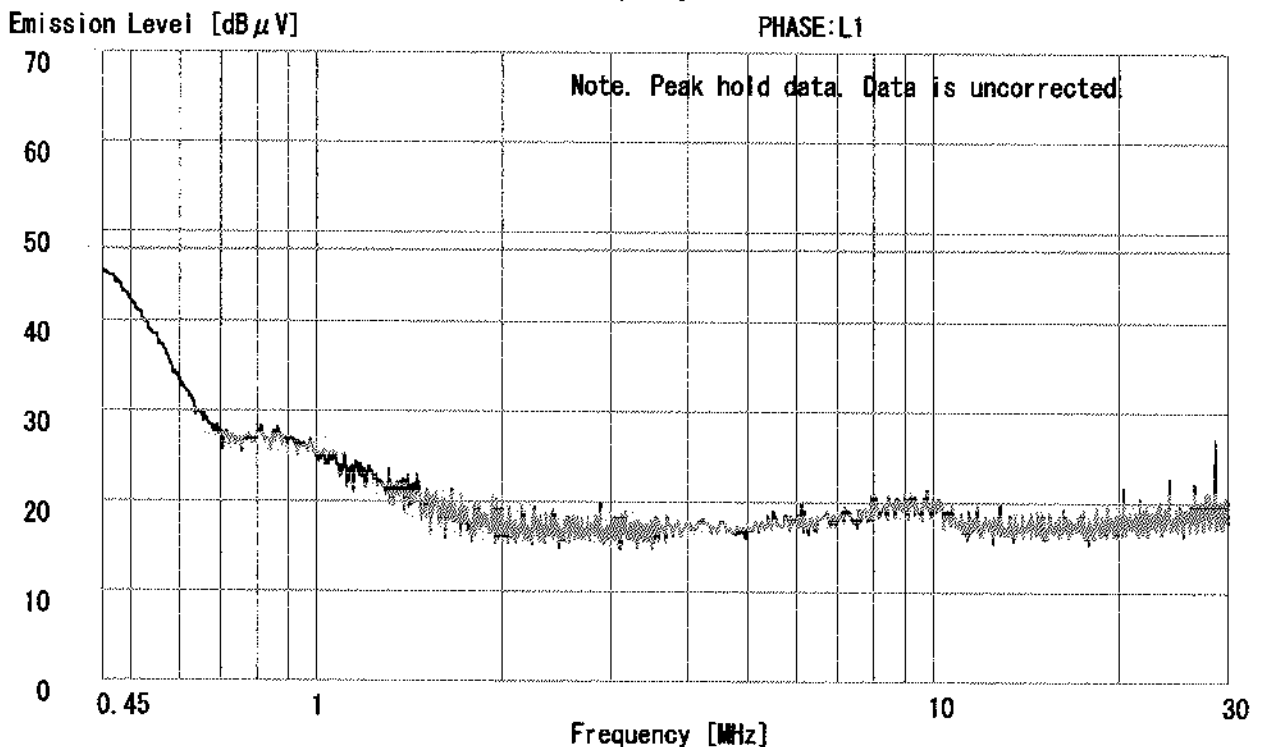
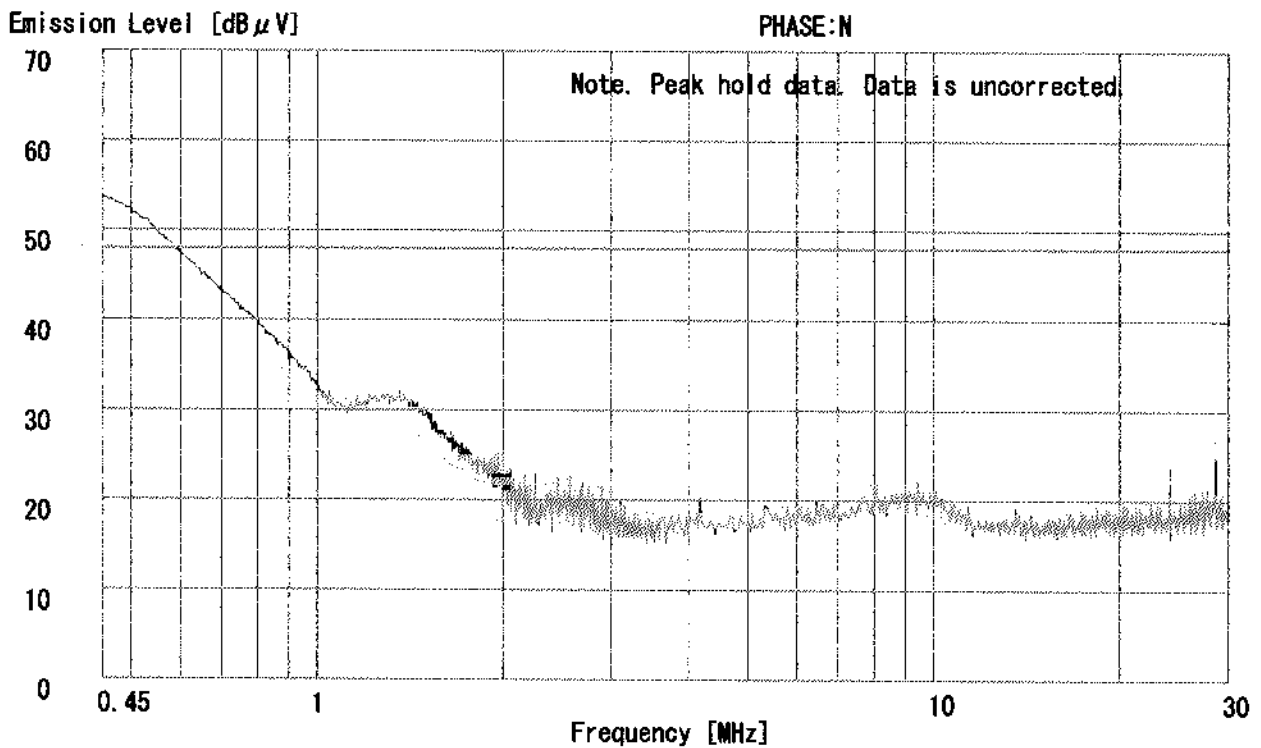


DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.
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Mode : Transmitting
Remarks : FCC ID: PZWBHT-100F
Date : 11/27/2001
Phase : Single Phase
Temperature : 26 °C
Humidity : 25 %
Regulation 1 : FCC Part15.207
Regulation 2 : None


Engineer : Naoki Sakamoto



DATA OF CONDUCTION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22DE0036-YW-2

Applicant : DENSO WAVE INCORPORATED
 Kind of Equipment : BARCODE HANDY TERMINAL
 Model No. : BHT-100QF
 Serial No. : 5496900011100028
 Power : DC3.6V(AC120V/60Hz)
 Mode : Transmitting
 Remarks : FCC ID: PZWBHT-100F
 Date : 11/27/2001
 Phase : Single Phase
 Temperature : 26 °C
 Humidity : 25 %
 Regulation : FCC Part15. 207



 Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dBuV]	AV	QP [dBuV]	AV				QP [dBuV]	AV	QP [dBuV]	AV	QP [dB]	AV
1.	0.4500	45.7	-	38.6	-	0.1	0.1	0.0	45.9	-	48.0	0.0	2.1	-
2.	0.8707	30.1	-	18.0	-	0.1	0.1	0.0	30.3	-	48.0	0.0	17.7	-
3.	1.3788	21.6	-	13.0	-	0.1	0.1	0.0	21.8	-	48.0	0.0	26.2	-
4.	2.3489	8.8	-	5.8	-	0.2	0.2	0.0	9.2	-	48.0	0.0	38.8	-
5.	9.2921	13.6	-	12.3	-	0.4	0.3	0.0	14.3	-	48.0	0.0	33.7	-
6.	24.0019	18.9	-	19.2	-	0.9	0.4	0.0	20.5	-	48.0	0.0	27.5	-
7.	28.4494	23.8	-	24.6	-	0.9	0.5	0.0	26.0	-	48.0	0.0	22.0	-

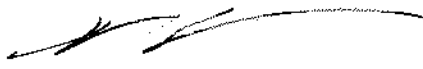
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

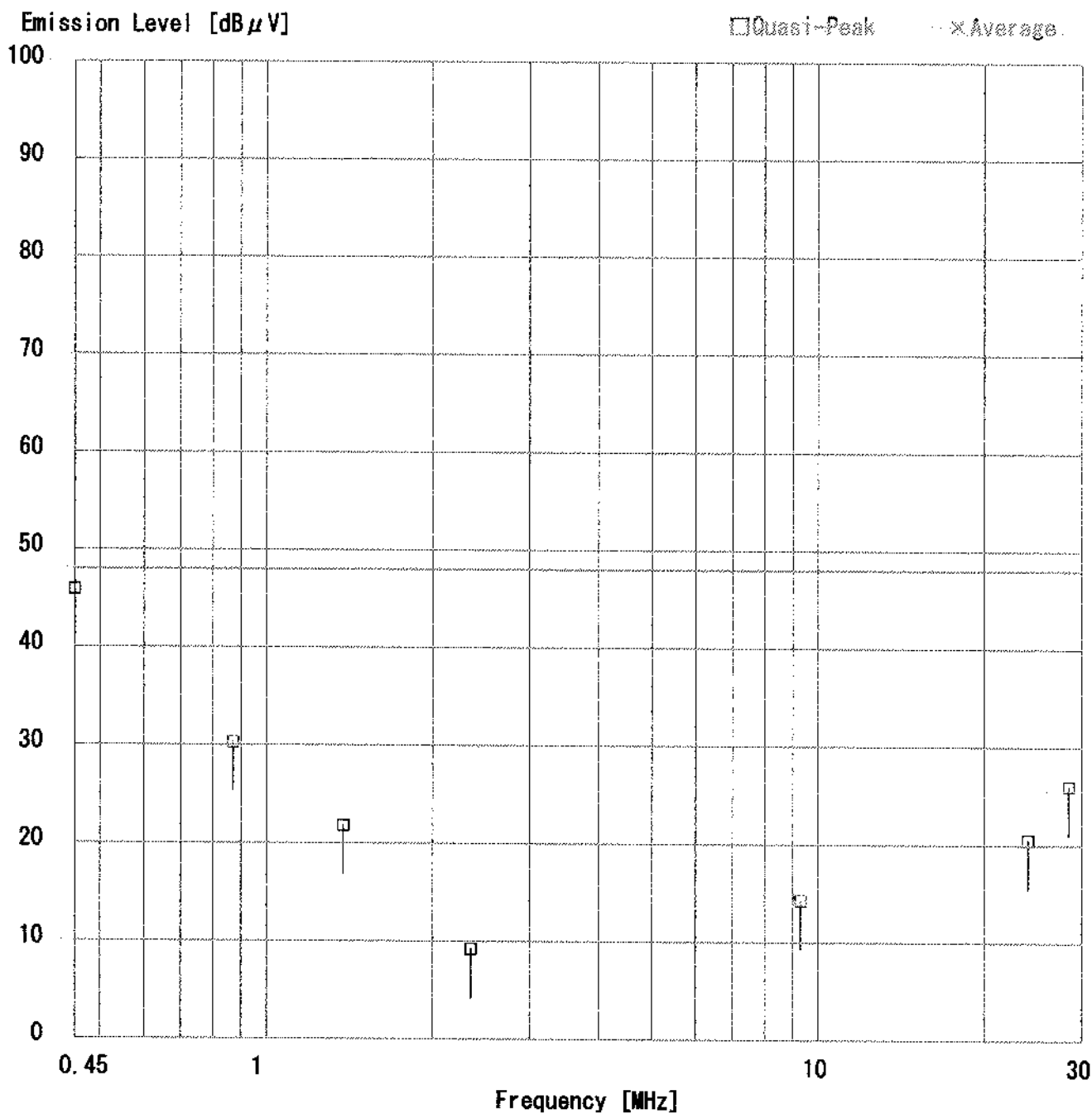
All other spurious emissions are more than 20dB below the limits.

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A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22DE0036-YW-2

Applicant : DENSO WAVE INCORPORATED
Kind of Equipment : BARCODE HANDY TERMINAL
Model No. : BHT-1000F
Serial No. : 5496900011100028
Power : DC3.6V (AC120V/60Hz)
Mode : Transmitting
Remarks : FCC ID: PZWBHT-100F
Date : 11/27/2001
Phase : Single Phase
Temperature : 26 °C
Humidity : 25 %
Regulation : FCC Part15.207


Engineer : Naoki Sakamoto

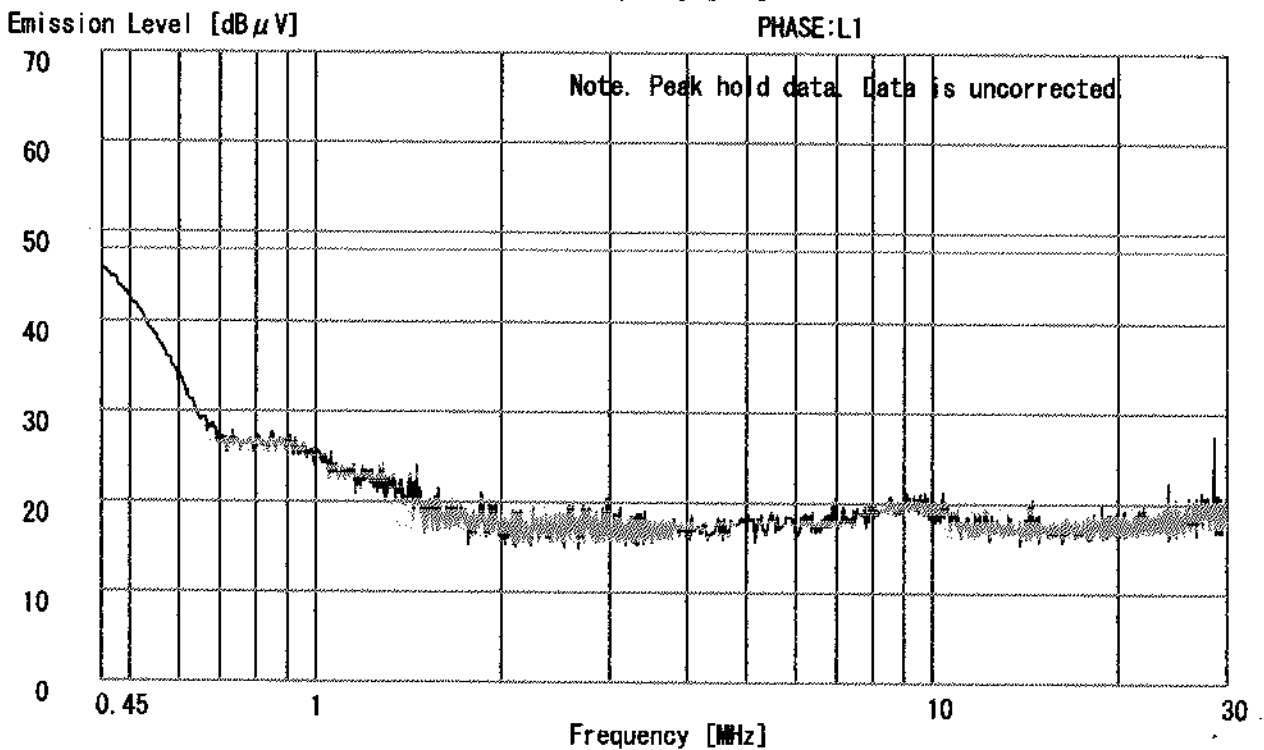
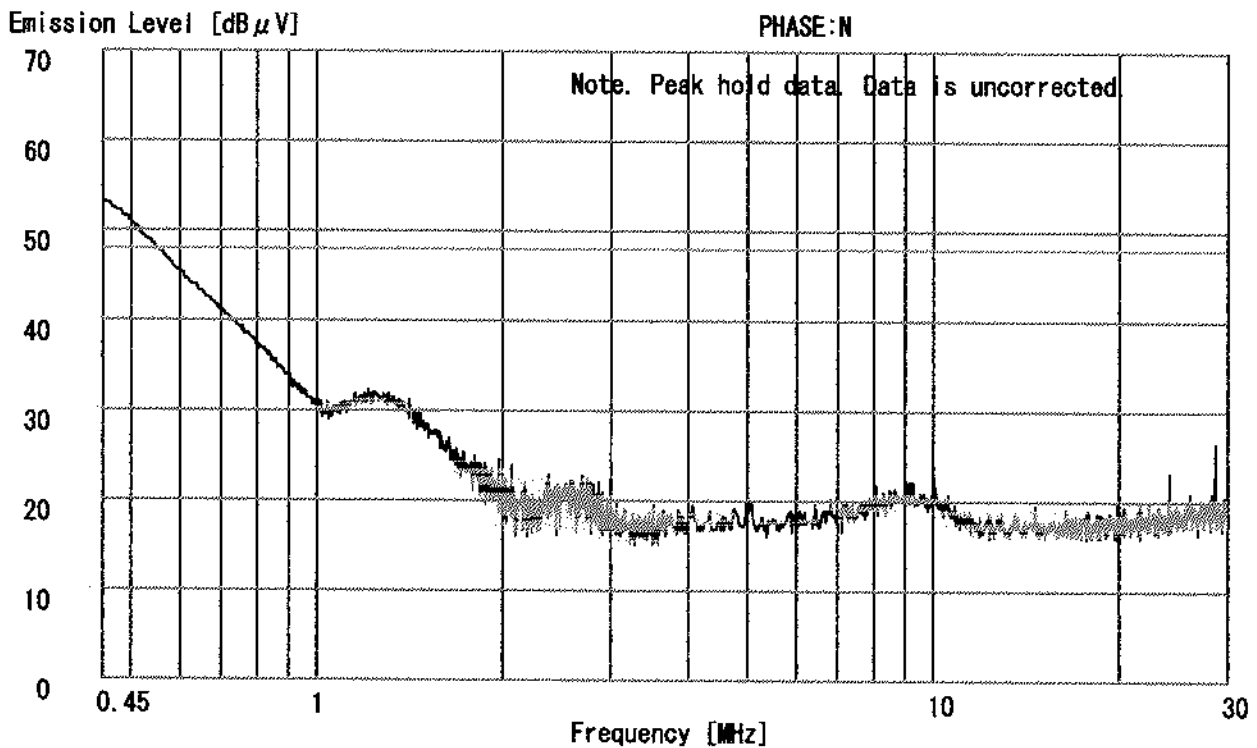


DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22DE0036-YW-2

Applicant : DENSO WAVE INCORPORATED
Kind of Equipment : BARCODE HANDY TERMINAL
Model No. : BHT-100QF
Serial No. : 5496900011100028
Power : DC3.6V(AC120V/60Hz)
Mode : Transmitting
Remarks : FCC ID: PZWBHT-100F
Date : 11/27/2001
Phase : Single Phase
Temperature : 26 °C
Humidity : 25 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

Engineer : Naoki Sakamoto

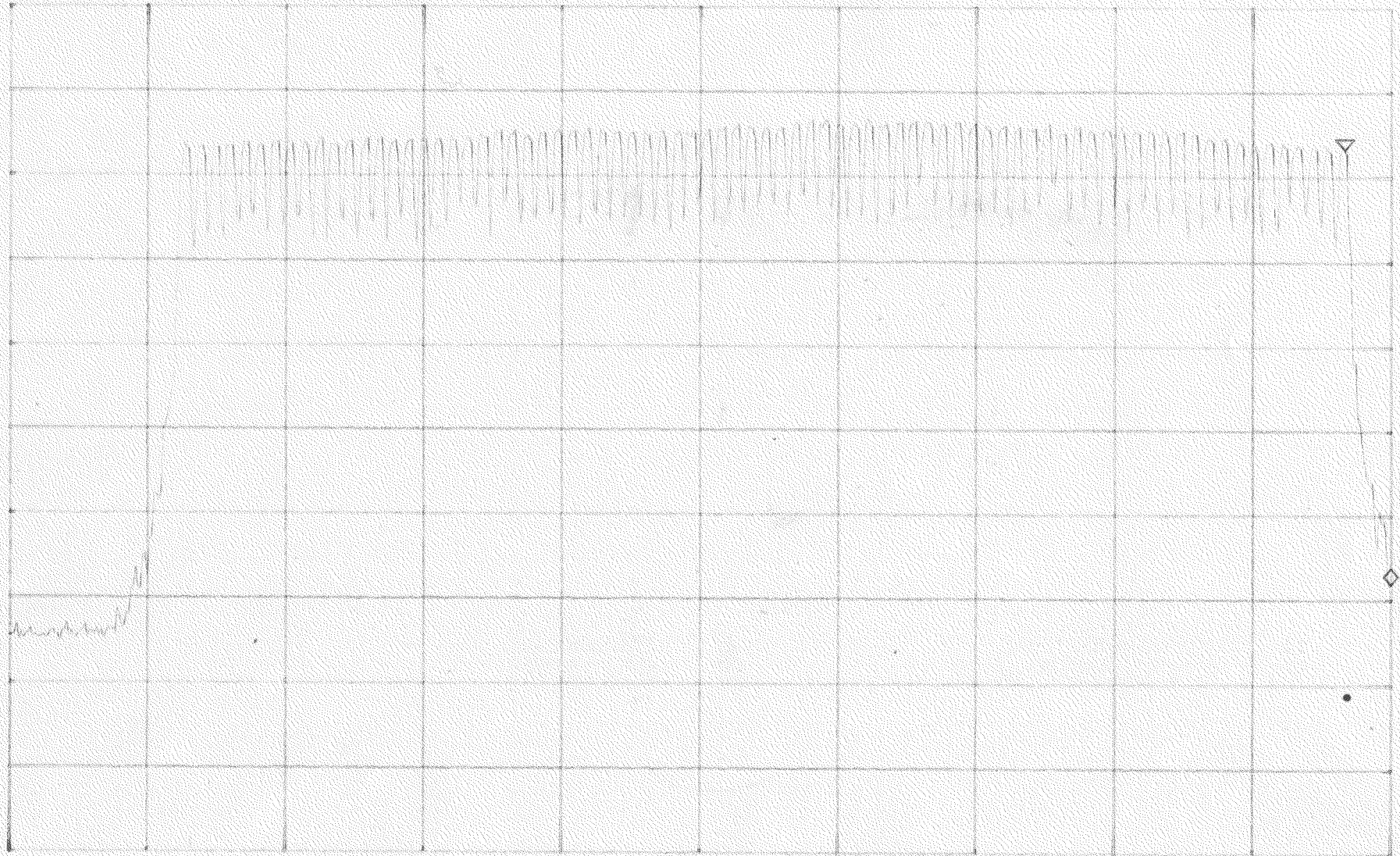


*ATTEN 30dB

ΔMKR -51.34dB

RL 127.0dBμV 10dB/

3.12MHz



START 2.390006GHZ

STOP 2.483506GHZ

*RBW 100KHZ

*VBW 100KHZ

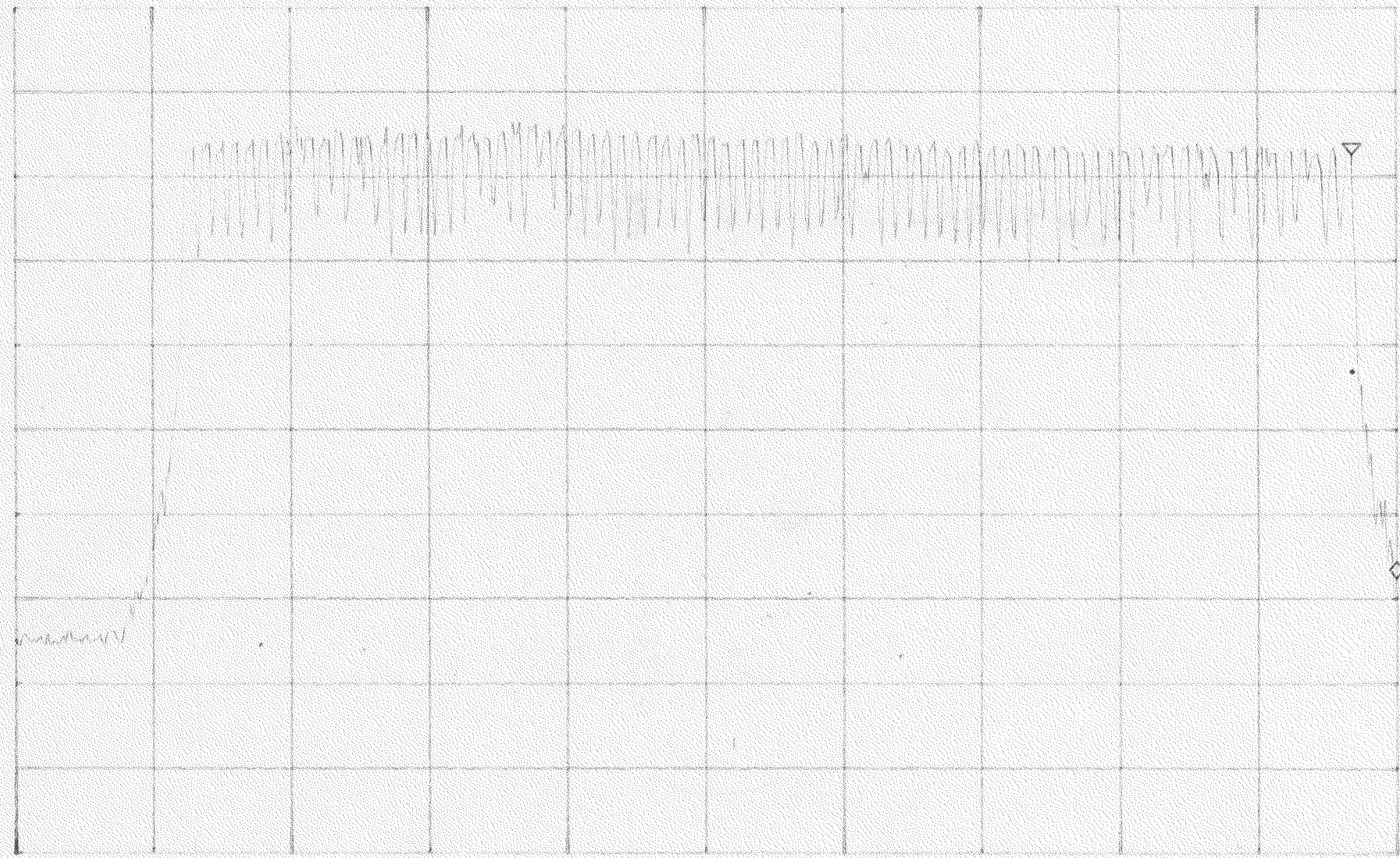
SWP 50ms

*ATTEN 30dB

ΔMKR -50.17dB

RL 127.0dBμV 10dB/

2.96MHz



START 2.39000GHz

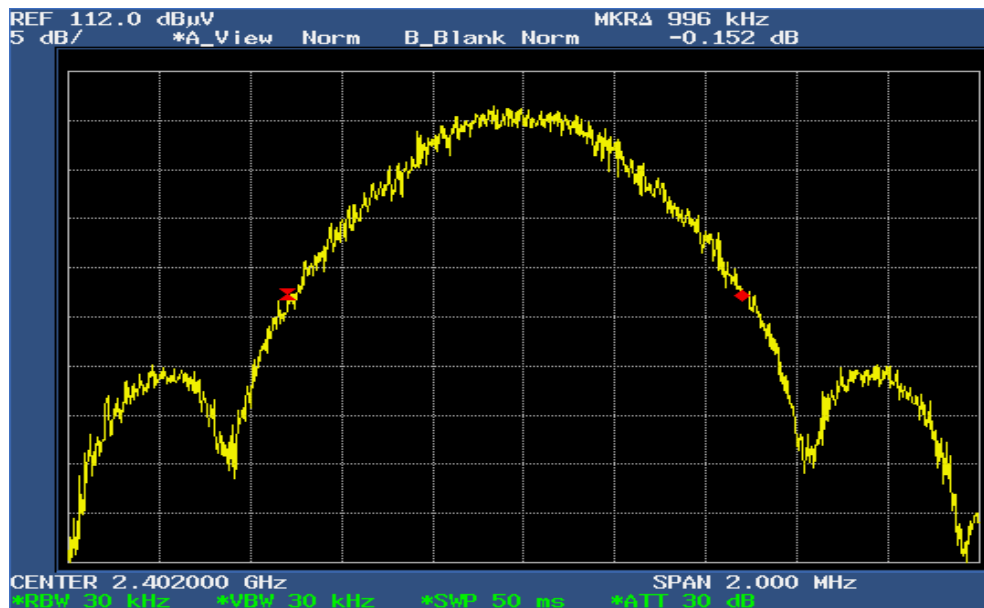
STOP 2.48350GHz

*RBW 100kHz

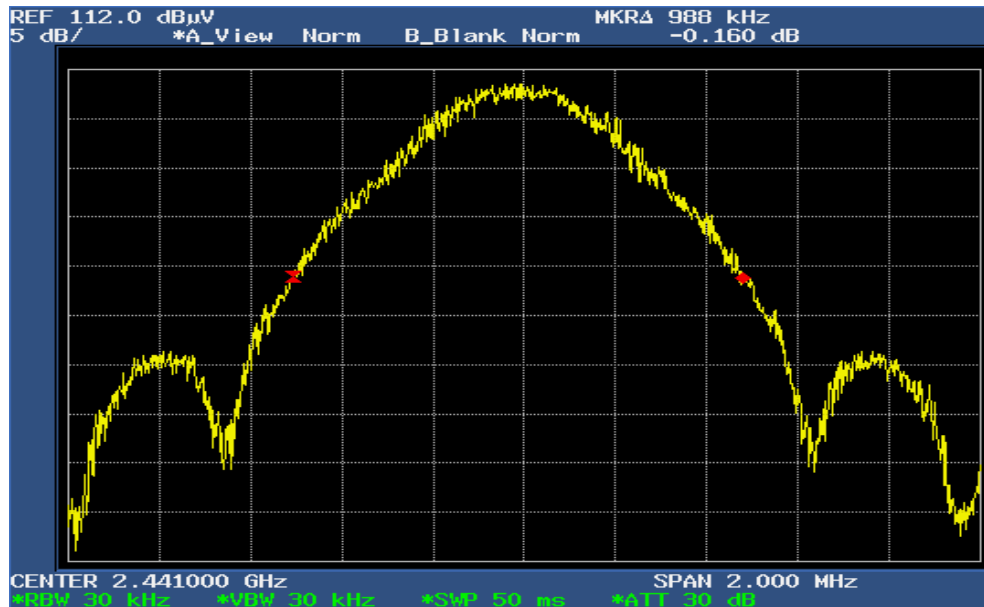
*VBW 100kHz

SWP 50ms

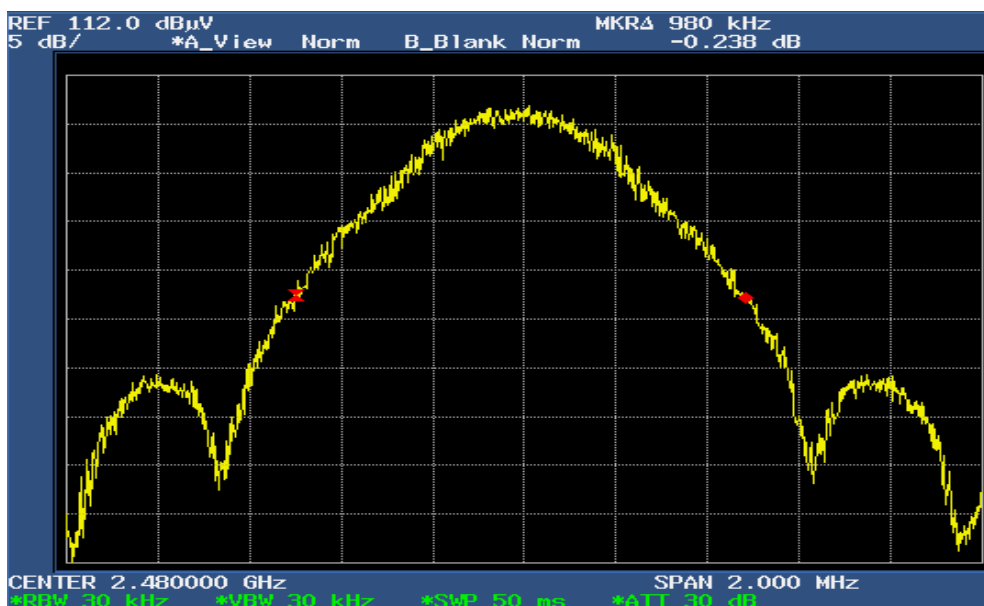
1.



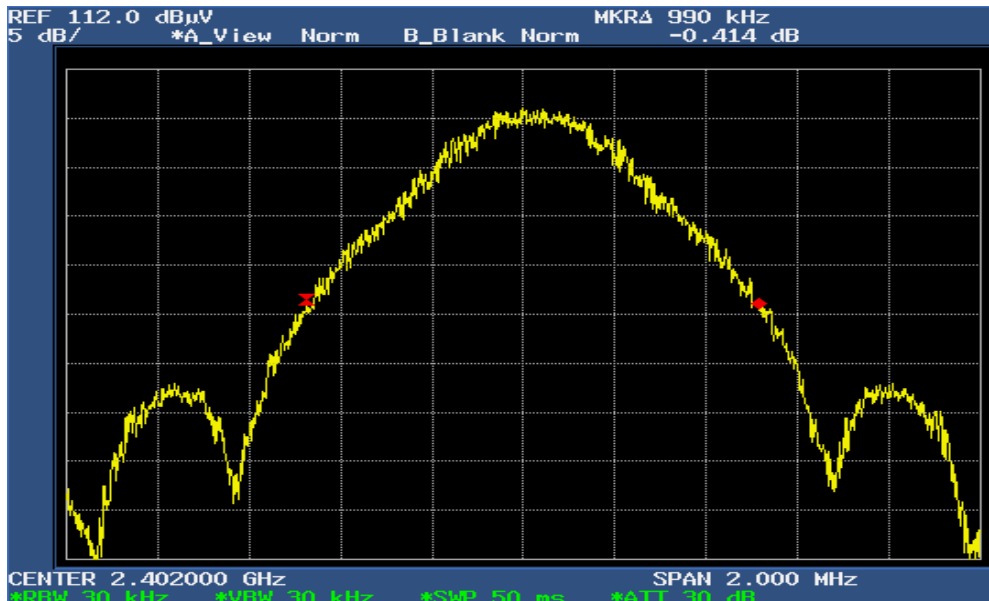
2.



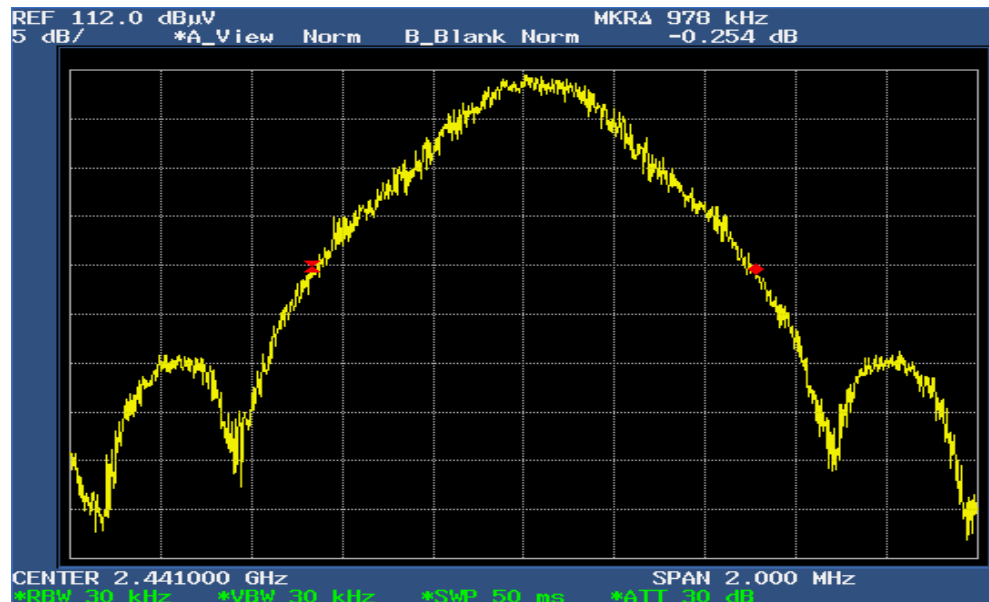
3.



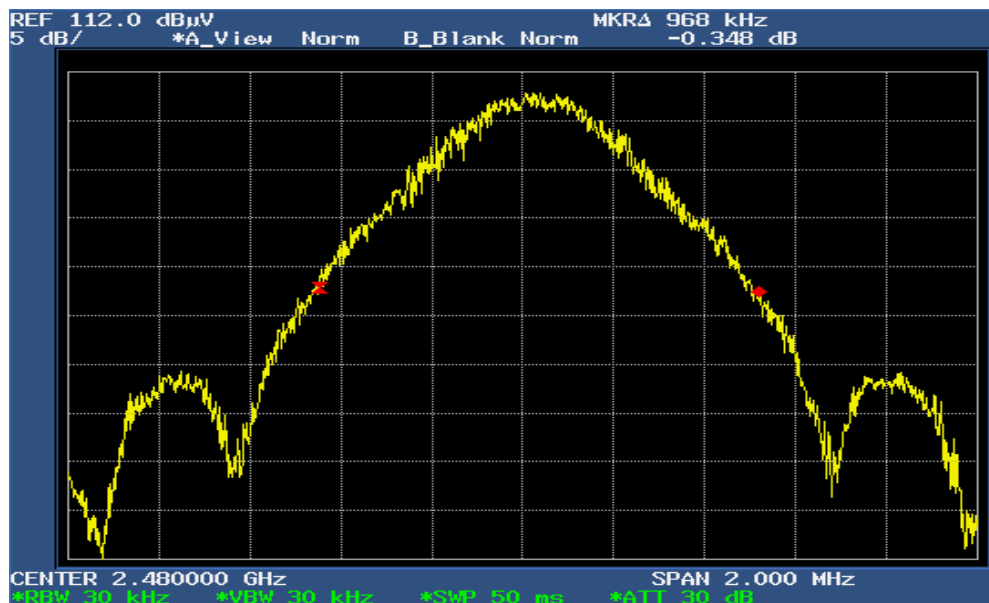
1.



2.



3.

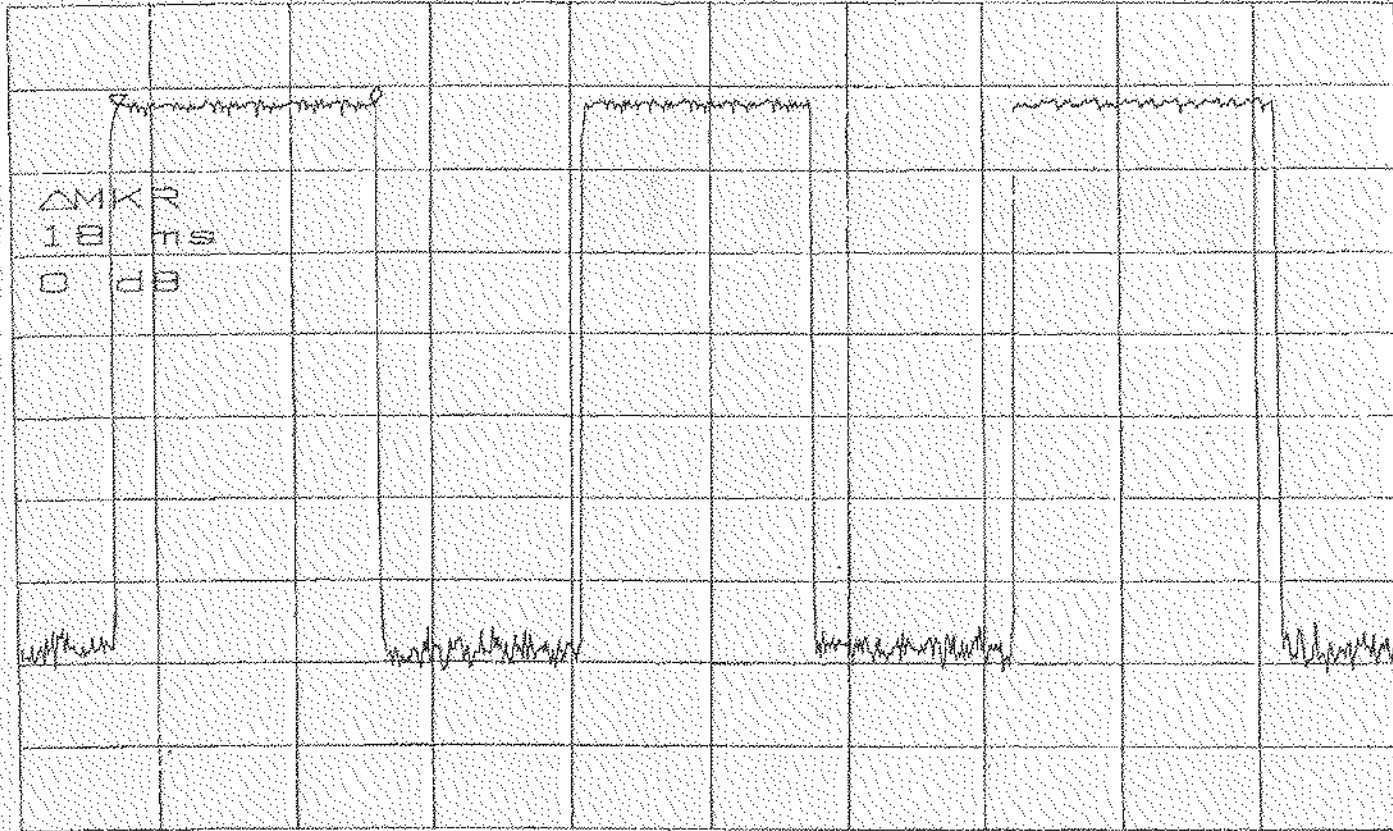


ATTEN 40dB
BPD 0.03
RL 30.0dB

10dB/

ΔMKR 0dB
BPD
18ms

FCC ID PZWBHT-100F



CENTER 2.402000000GHz SPAN 0Hz
*RBW 100kHz VBW 100kHz *SWP 100ms

DWELL TIME

A11

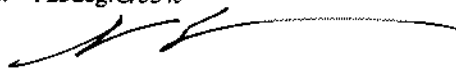
Peak Out Put Power(Radiated)

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

COMPANY : DENSO WAVE INCORPORATED
EQUIPMENT : BARCODE HANDY TERMINAL
MODEL : BHT-100BF
FCC ID : PZWBHT-100F
POWER : DC3.6V
Mode : Transmitting

REPORT NO : 22DE0036-YW-2
REGULATION : Fcc Part15SubpartC 247 (b)

DATE : 2001/11/28
Temp./Humi. : 25deg.C/33%


ENGINEER : Naoki Sakamoto

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

Ch	FREQ [GHz]	S/A READING		All Factor [dB]	E1		E		Limit (1W) [mW]	Result	
		HOR	VER		HOR	VER	HOR	VER		HOR	VER
		[dB μV]			[dB μV/m]		[V/m]			[mW]	
Low	2.4020	109.4	107.5	3.1	112.5	110.6	0.4198	0.3404	1000.0	52.9	34.8
Mid	2.4410	112.3	111.1	3.2	115.5	114.3	0.5970	0.5191	1000.0	106.9	80.8
High	2.4800	110.6	108.0	3.4	114.0	111.4	0.5040	0.3729	1000.0	76.2	41.7

Sample Calculation :

All Factor = ANT Factor - Amp Gain + CABLE LOSS + ATTEN

Low(2402MHz):ANT Factor(31.3dB) - Amp Gain(37.7dB) + CABLE LOSS(3.4dB) + ATTEN(6.1dB)

Mid(2441MHz):ANT Factor(31.4dB) - Amp Gain(37.8dB) + CABLE LOSS(3.5dB) + ATTEN(6.1dB)

High(2480MHz):ANT Factor(31.5dB) - Amp Gain(37.7dB) + CABLE LOSS(3.5dB) + ATTEN(6.1dB)

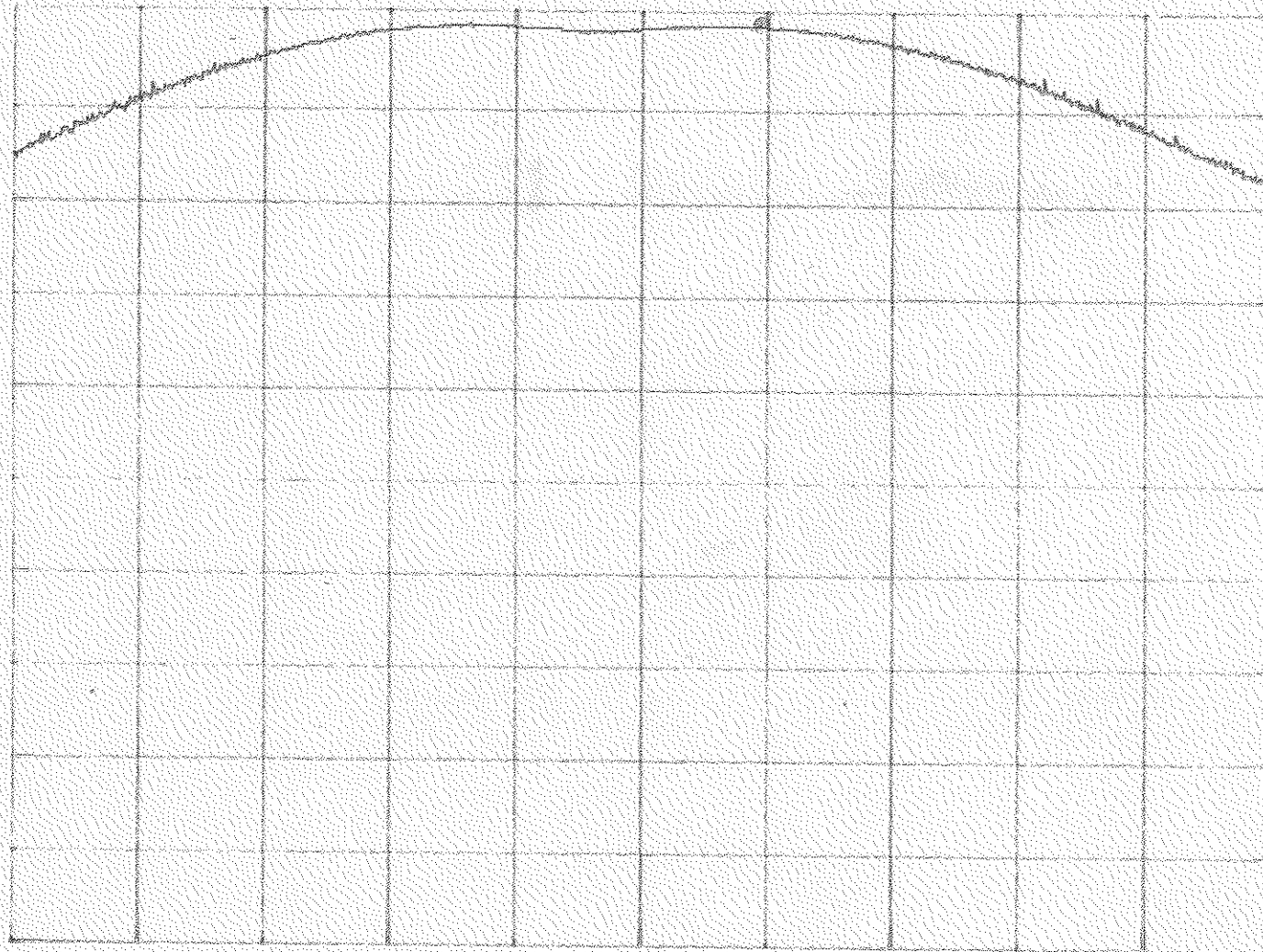
RESULT = (E*d)(E*d)/(30G)

E : Converted to V/m

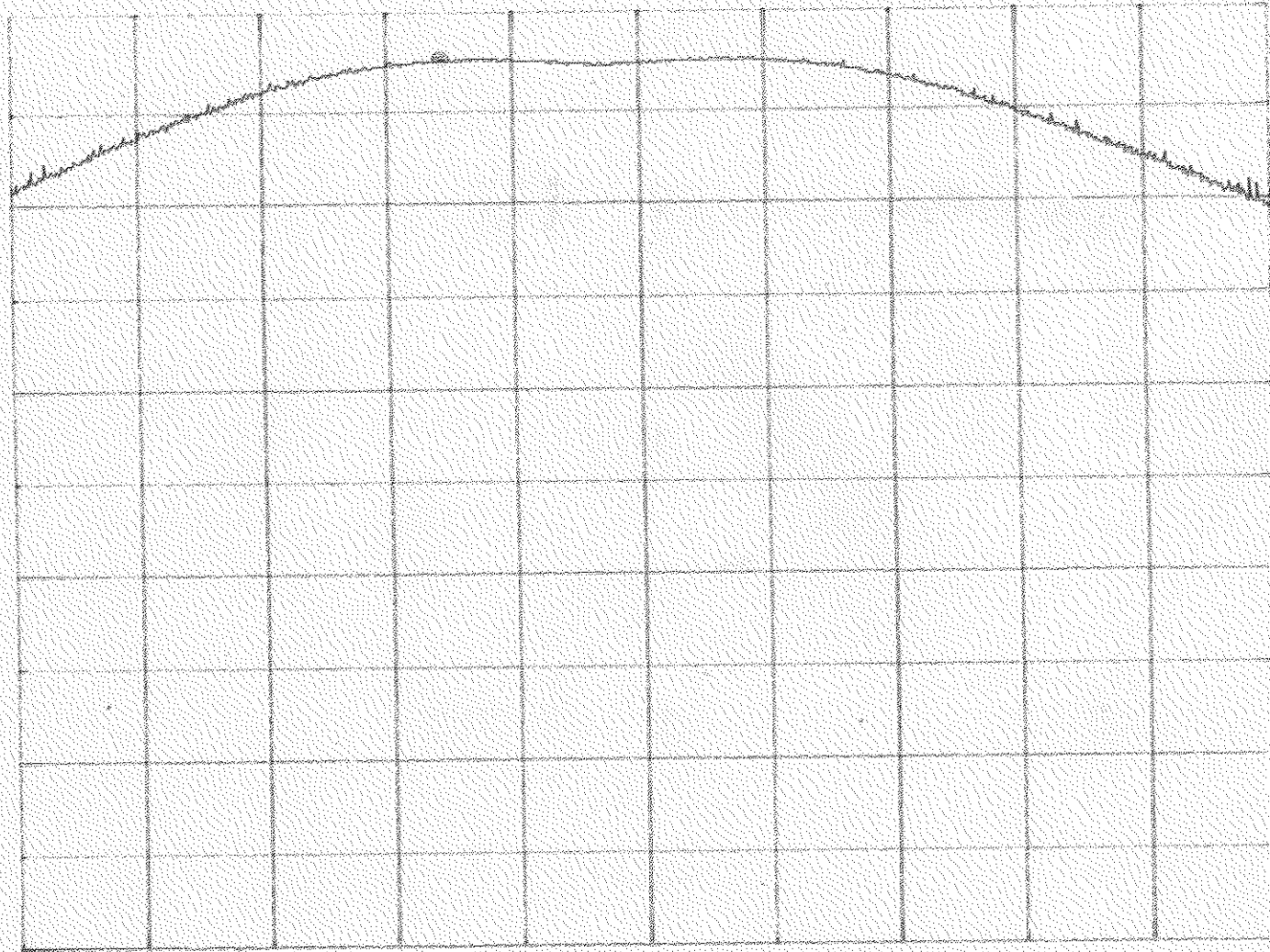
E1: S/A Reading + All Factor

d : Test distance(3.0m)

G : Antenna Gaine(1.0)



CENTER 2.402000 GHz SPAN 2.000 MHz
SPAN 1 MHz *VBW 1 MHz *SWP 100 ms ATT 20 dB



CENTER 2.402000 GHz

SPAN 2.000 MHz

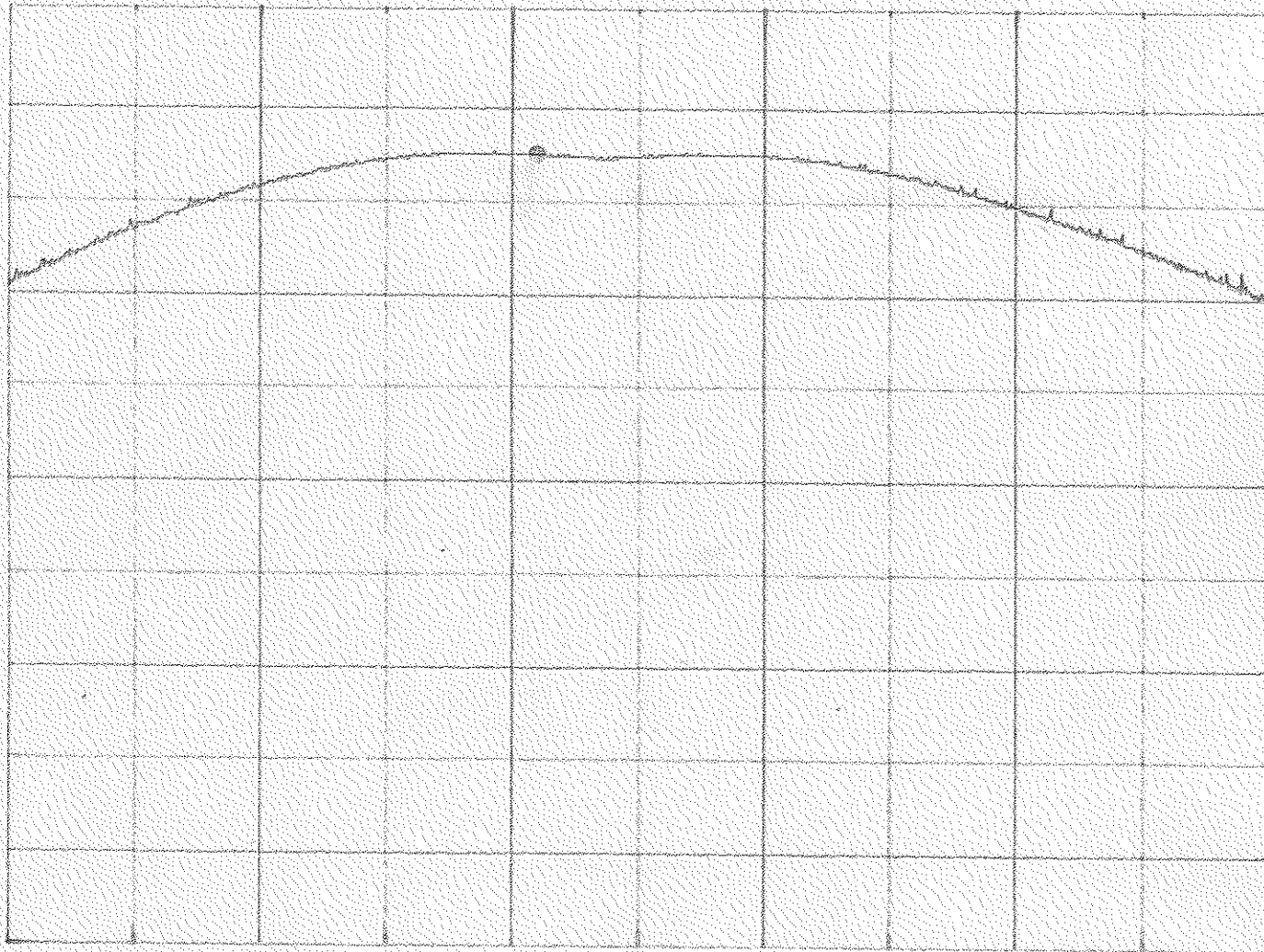
RES BW 1 MHz

VBW 1 MHz

SM 0.1 dB

ATT 20 dB

REF 120.0 dBm A_View B_Blank MKR 2.440836 GHz
5 dB 112.324 dBm



CENTER 2.441000 GHz

*RBW 1 MHz

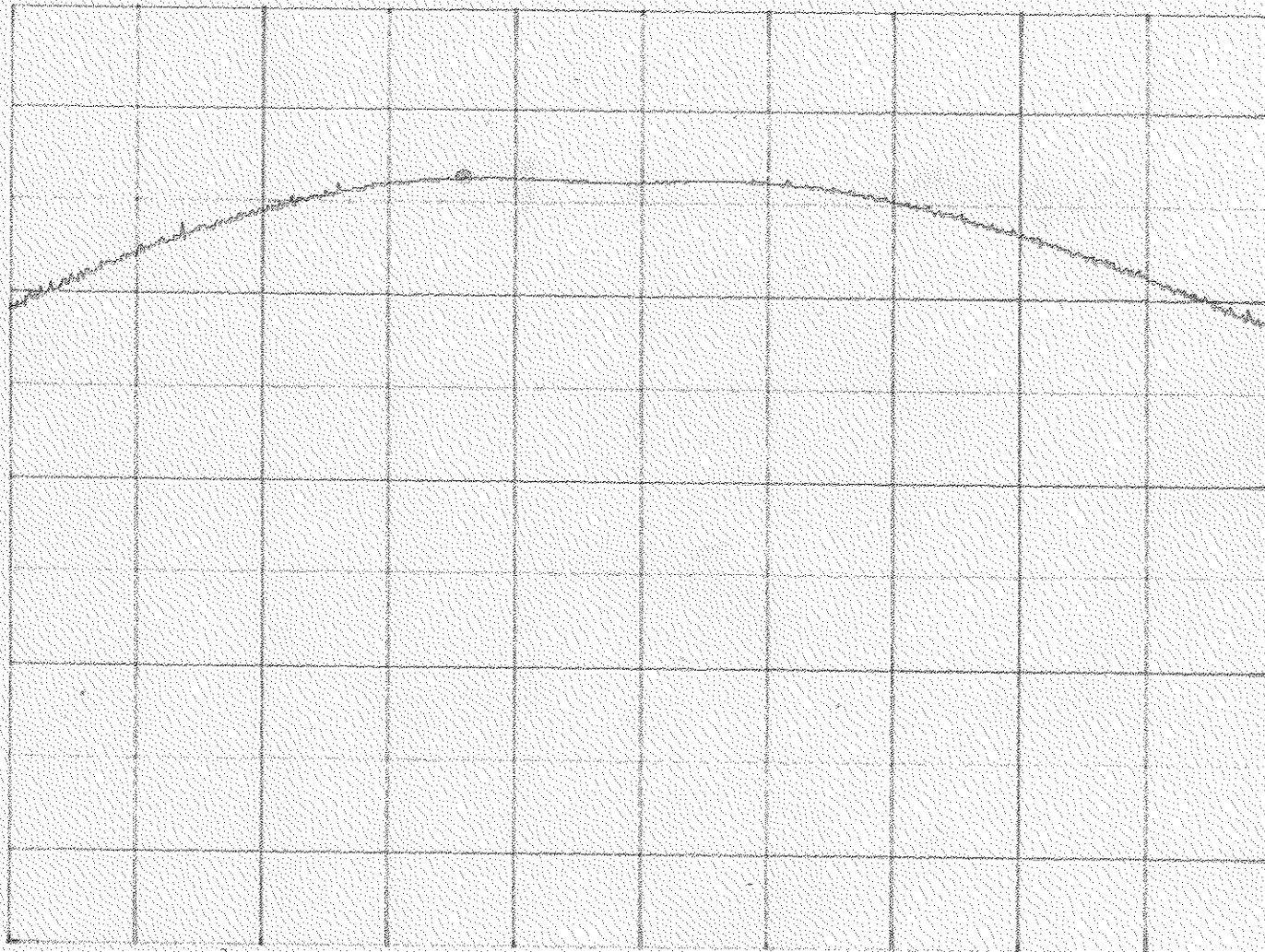
*VBW 1 MHz

*SWP 100 ms

SPAN 2.000 MHz

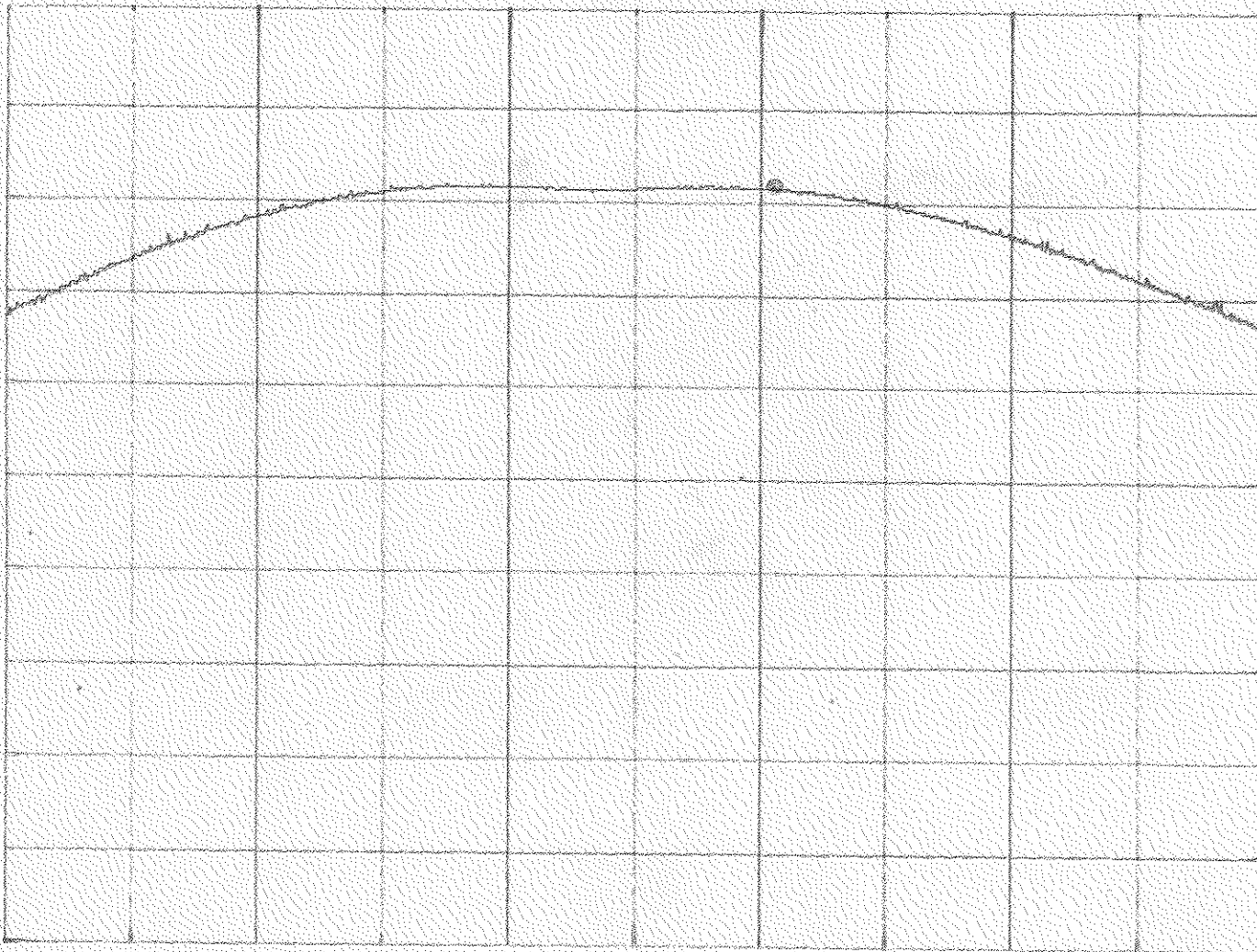
ATT 30 dB

Denso Wave Incorporated / FCC ID: PZWBHT-100F / Page. A **10**
Peak Out Put Power / 2441MHz (Ver) / BHT-100BF / 22DE0036-YW-2 Wed 2004 Nov 28 11:56
MFT 120.0 dBm A View B_Blank MKR 2.440718 GHz
5 dB **111.105 dBm**

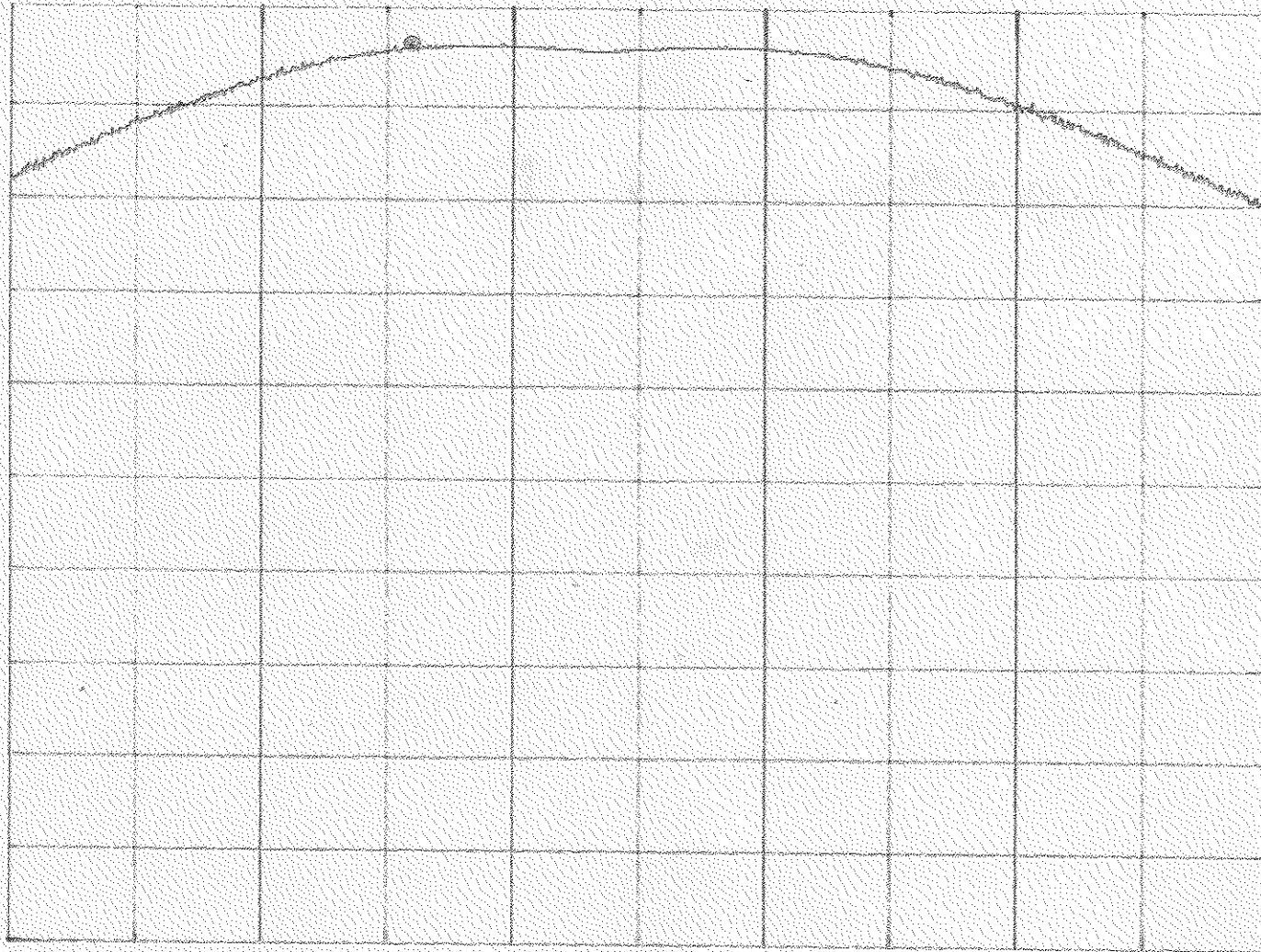


CENTER 2.441000 GHz SPAN 2.000 MHz
#RBW 1 MHz #VBW 1 MHz #SWP 100 Hz ATT 30 dB

REF 120.0 dB μ V A_Max B_Blank MKR 2.480222 GHz
5 dB 110.648 dB μ V



CENTER 2.480000 GHz SPAN 2.000 MHz
RBW 1 MHz VBW 1 MHz RES 100 ms ATT 30 dB



CENTER 2.480000 GHz

*RBW 1 MHz

*VBW 1 MHz

*SWP 100 ms

SPAN 2.000 MHz

ATT 20 dB