

Appendix 1

Test results

Disturbance Voltage on AC Mains

Date: 22 Feb 2005

EUT: BTH-708

Company: IEA Electro-Acoustic Co., Ltd.

Humidity: 60%

Temperature: 23°C

Voltage supply: 3.7V from rechargeable battery

Test by: Sharon Li

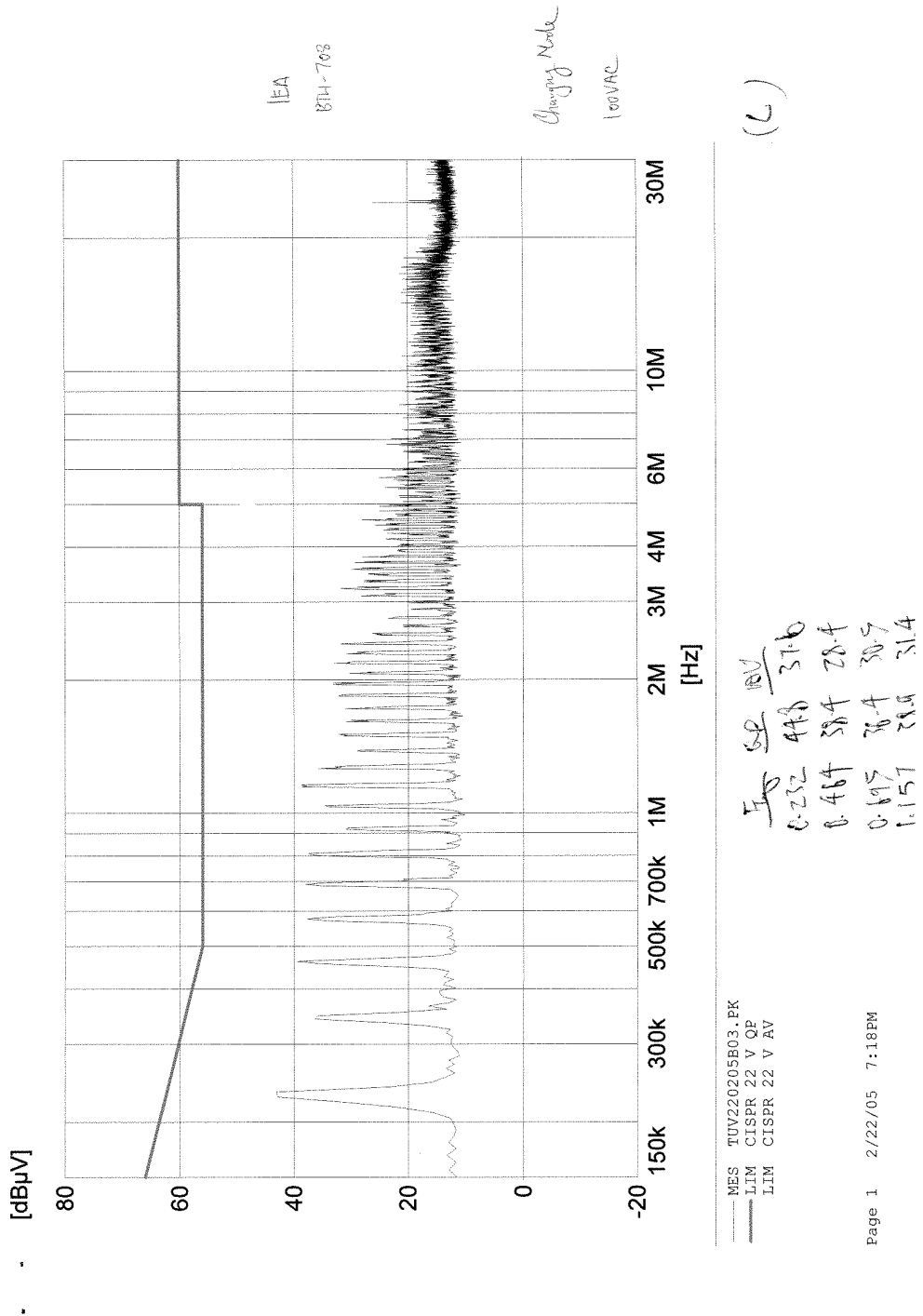
Op. mode: Charging

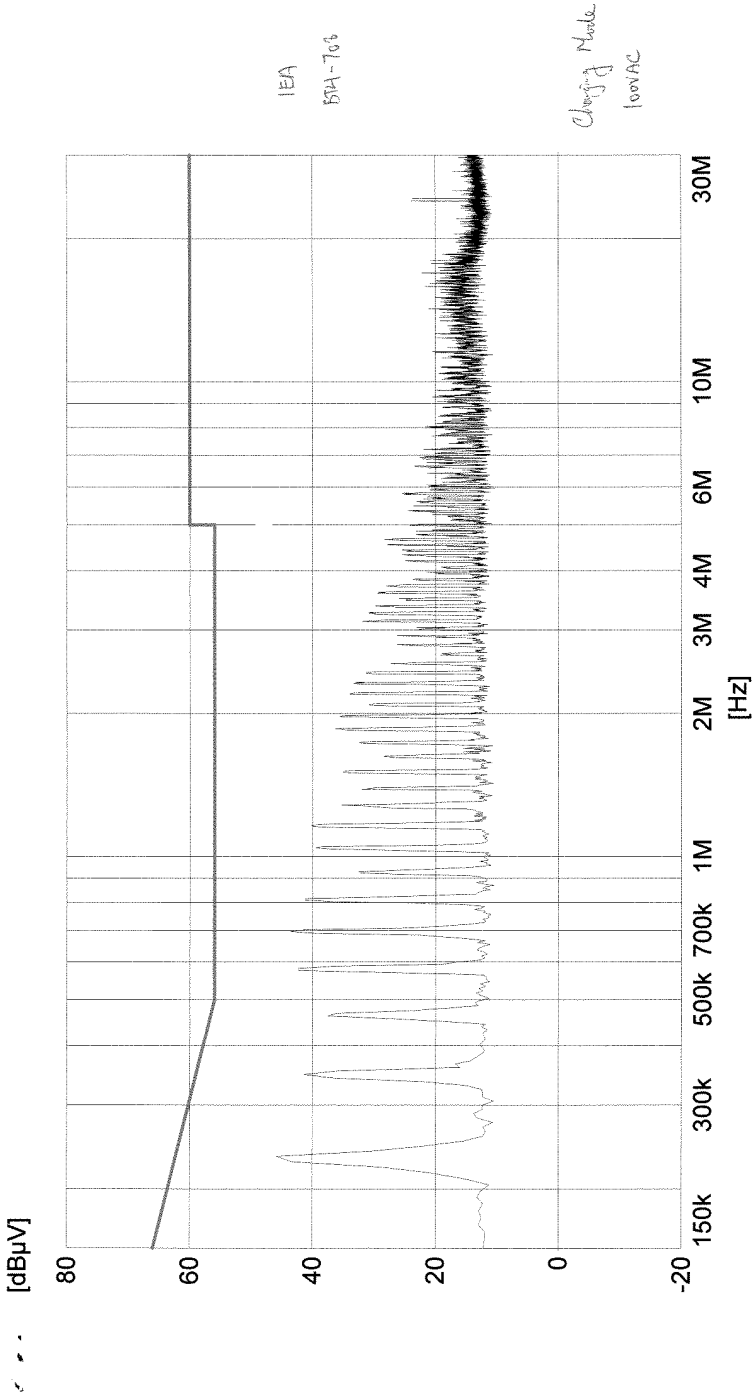
Live measurement

Frequency (MHz)	QP reading (dBμV)	Av reading (dBμV)	Results
0.232	44.8	37.6	Pass
0.464	38.4	28.4	Pass
0.695	36.4	30.5	Pass
1.157	38.9	31.4	Pass

Neutral measurement

Frequency (MHz)	QP reading (dBμV)	Av reading (dBμV)	Results
0.232	45.3	44.8	Pass
0.464	36.9	35.4	Pass
0.695	41.9	38.8	Pass
1.157	37.2	29.5	Pass



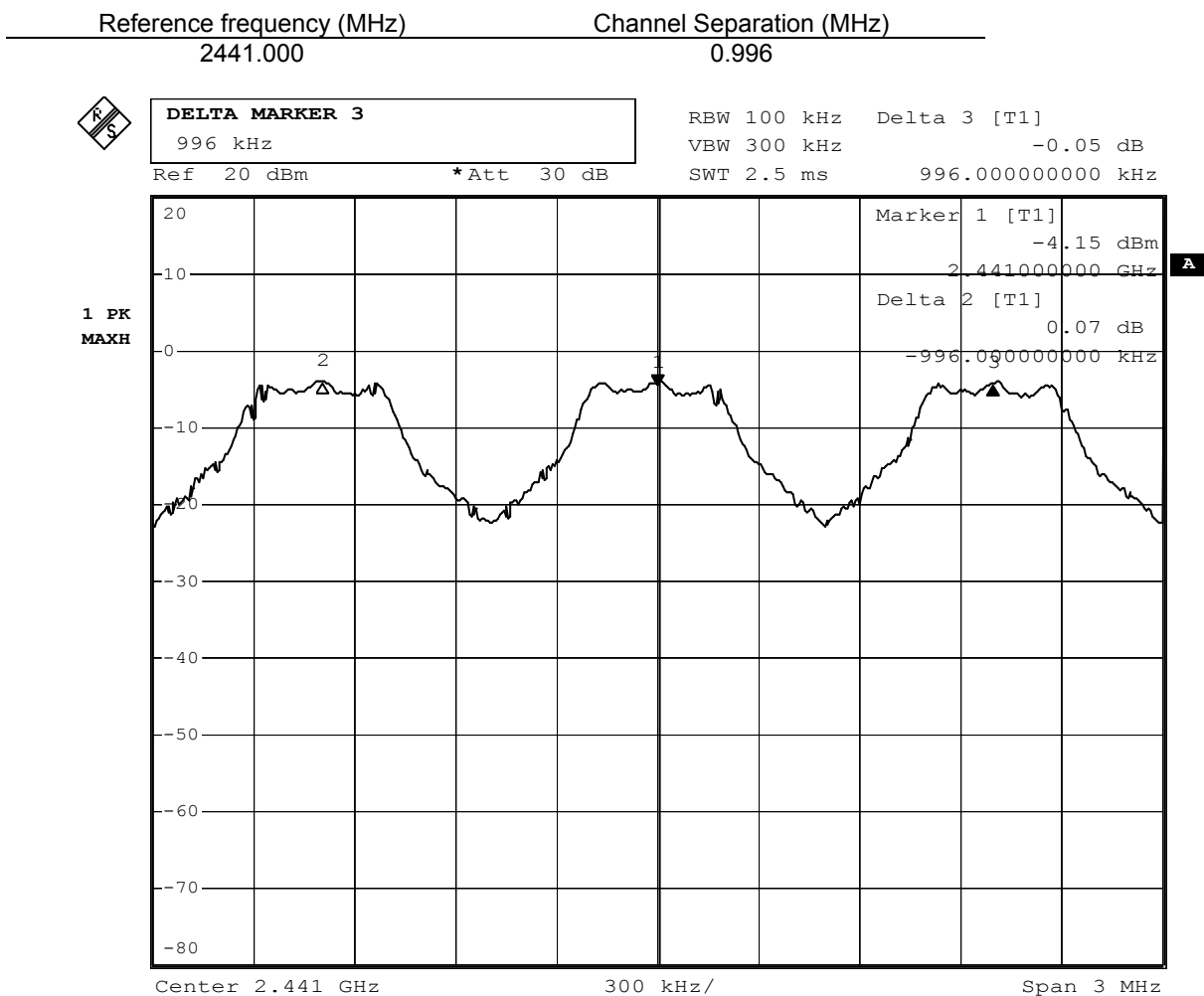


MES TUV220205B04.PK
LIM CISPR 22 V QP
LIM CISPR 22 V AV

Page 1 2/22/05 8:05PM

Carrier Frequency Separation

Date: 21 Feb 2005
 EUT: BTH-708
 Company: IEA Electro-Acoustic Co., Ltd.
 Humidity: 60%
 Temperature: 23°C
 Voltage supply: 3.7V from rechargeable battery
 Test by: Sharon Li
 Op. mode: Hopping on



Date: 21.FEB.2005 13:56:12

Dwell Time

Date: 21 Feb 2005
 EUT: BTH-708
 Company: IEA Electro-Acoustic Co., Ltd.
 Humidity: 60%
 Temperature: 23°C
 Voltage supply: 3.7V from rechargeable battery
 Test by: Sharon Li
 Op. mode: Hopping on

Burst Duration (ms)	Number of hopping	Time of occupancy (s)	Results
2.936	64	$0.002936 \times 64 =$ 0.1879	Pass


DELTA MARKER 2

2.936 ms

Ref 20 dBm

*Att 30 dB

RBW 1 MHz

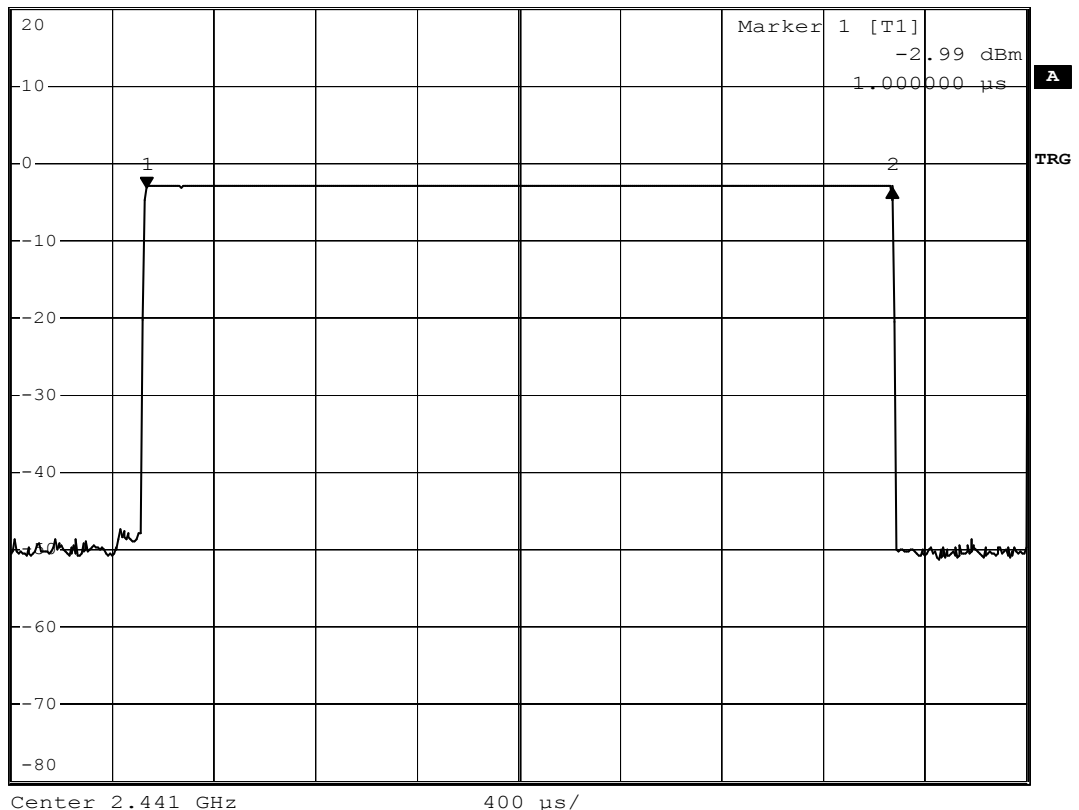
Delta 2 [T1]

*VBW 3 MHz

0.07 dB

SWT 4 ms

2.936000 ms

1 PK
MAXH

Date: 21.FEB.2005 14:06:32



SWEEP TIME

31.6 s

RBW 1 MHz

VBW 3 MHz

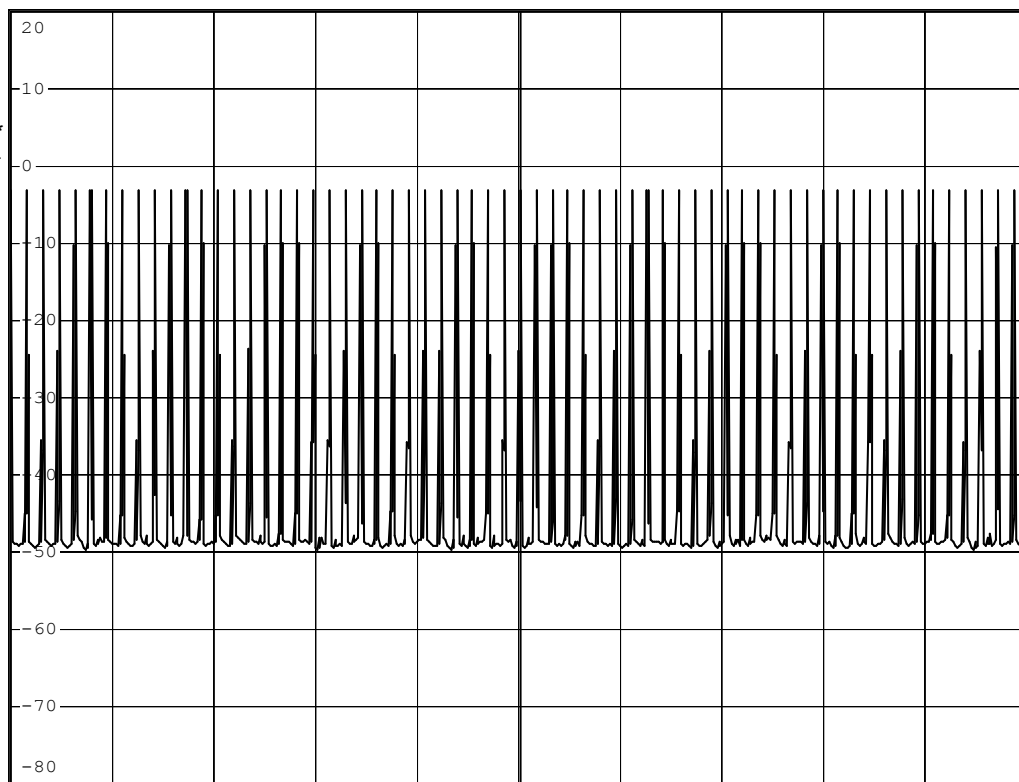
SWT 31.6 s

Ref 20 dBm

*Att 30 dB

1 PK *
CLRWR

A
SGL



Center 2.441 GHz

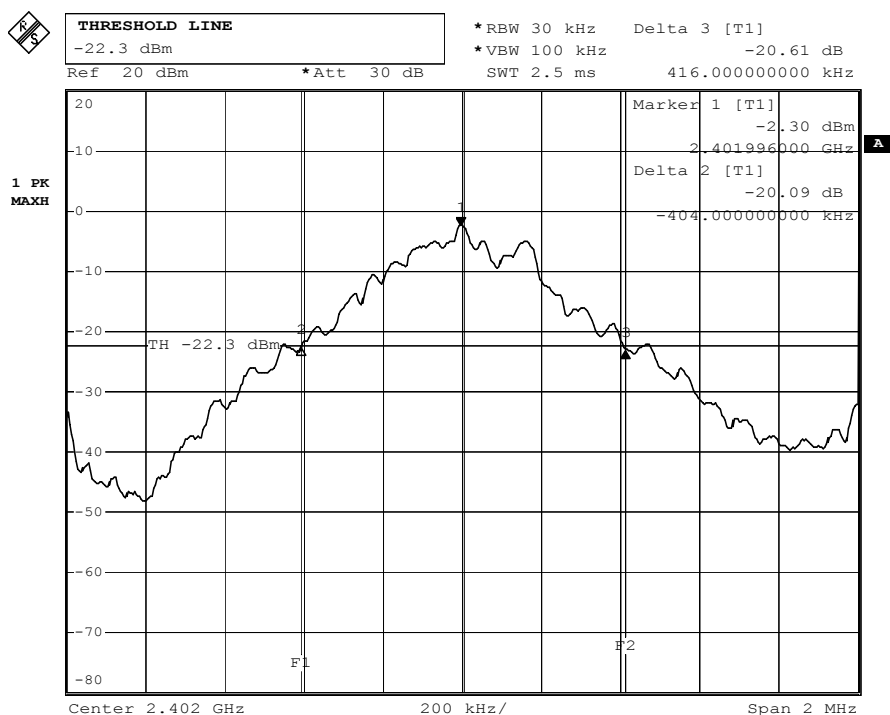
3.16 s/

Date: 8.APR.2005 11:40:30

20dB Bandwidth

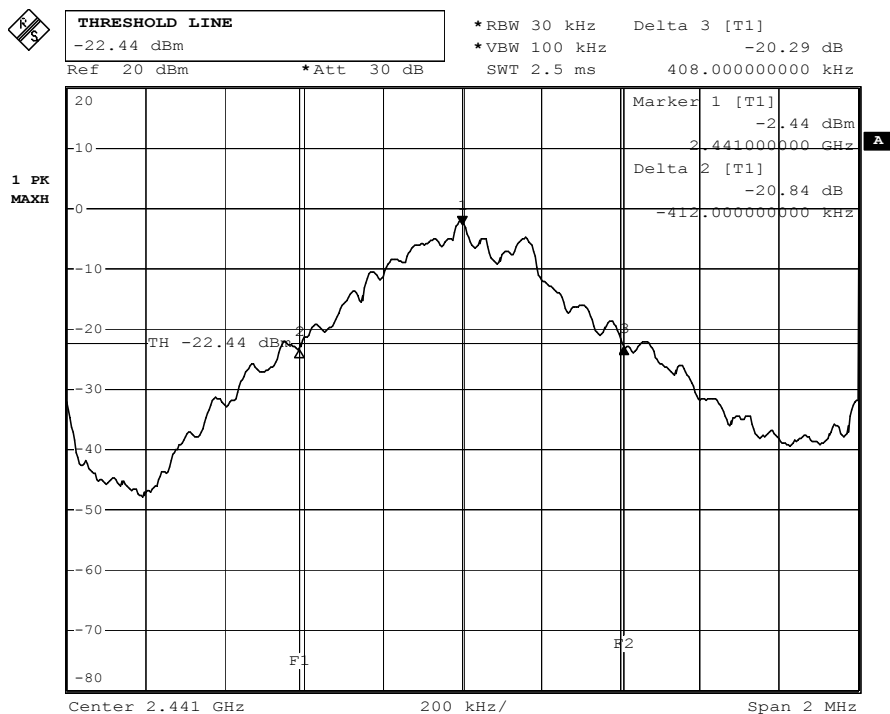
Date: 21 Feb 2005
 EUT: BTH-708
 Company: IEA Electro-Acoustic Co., Ltd.
 Humidity: 60%
 Temperature: 23°C
 Voltage supply: 3.7V from rechargeable battery
 Test by: Sharon Li
 Op. mode: TX mode, DH5 with PRBS9 payload

Tx frequency (MHz)	Δf_L (MHz)	Δf_H (MHz)	$ \Delta f_H + \Delta f_L $ (MHz)	Results
2402	0.404	0.416	0.820	Pass
2441	0.412	0.408	0.820	Pass
2480	0.404	0.416	0.820	Pass



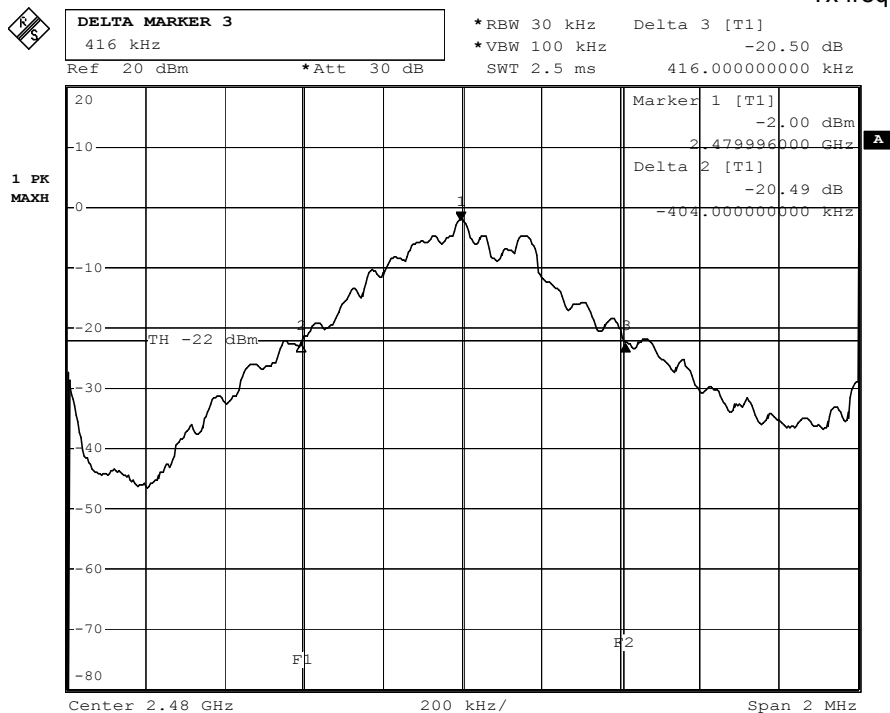
Date: 21.FEB.2005 14:33:44

Tx frequency: 2402MHz



Date: 21.FEB.2005 15:54:57

Tx frequency: 2441MHz



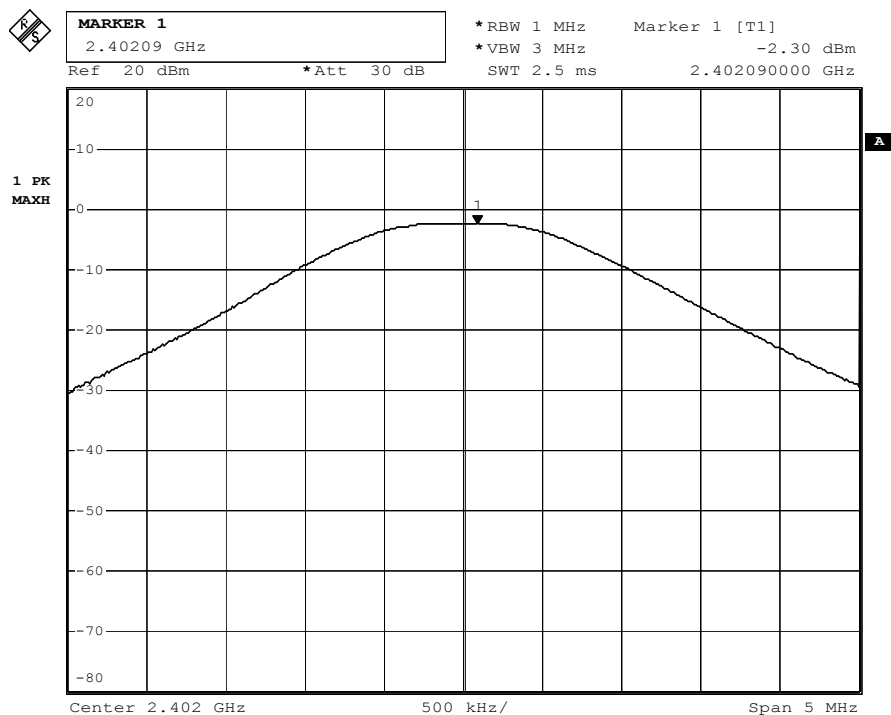
Date: 21.FEB.2005 14:45:20

Tx frequency: 2480MHz

Peak Output Power

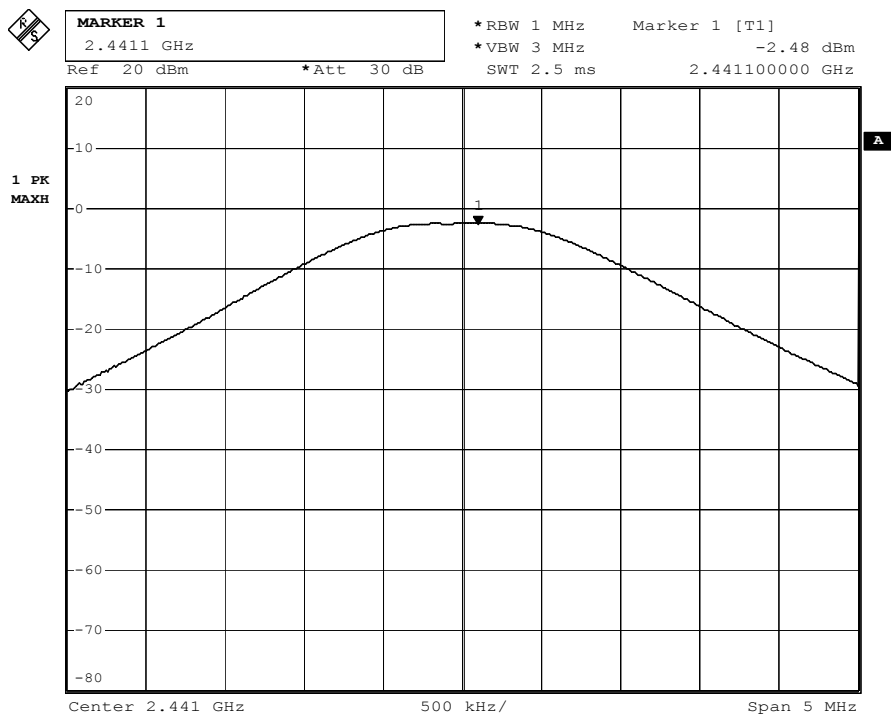
Date: 21 Feb 2005
 EUT: BTH-708
 Company: IEA Electro-Acoustic Co., Ltd.
 Humidity: 60%
 Temperature: 23°C
 Voltage supply: 3.7V from rechargeable battery
 Test by: Sharon Li
 Op. mode: TX mode, DH1 with PRBS9 payload

Tx Frequency (MHz)	Power P _{PK} (dBm)	Cable Attenuation (dB)	Actual Peak Power (dBm)	Results
2402	-2.30	3.52	1.22	Pass
2441	-2.48	3.65	1.17	Pass
2480	-2.11	3.60	1.49	Pass



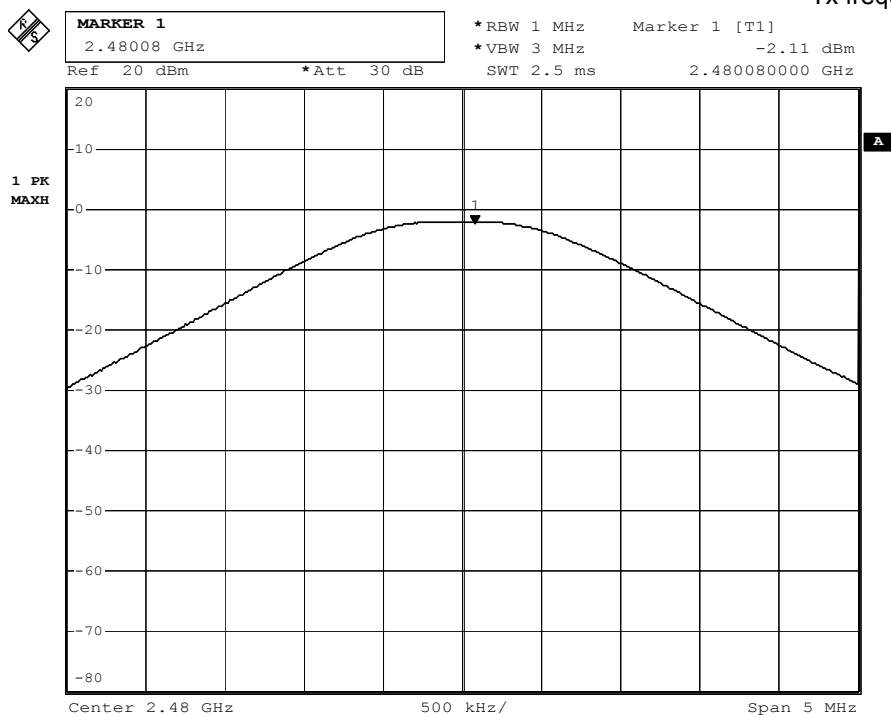
Date: 21.FEB.2005 14:47:41

Tx frequency: 2402MHz



Date: 21.FEB.2005 14:50:32

Tx frequency: 2441MHz



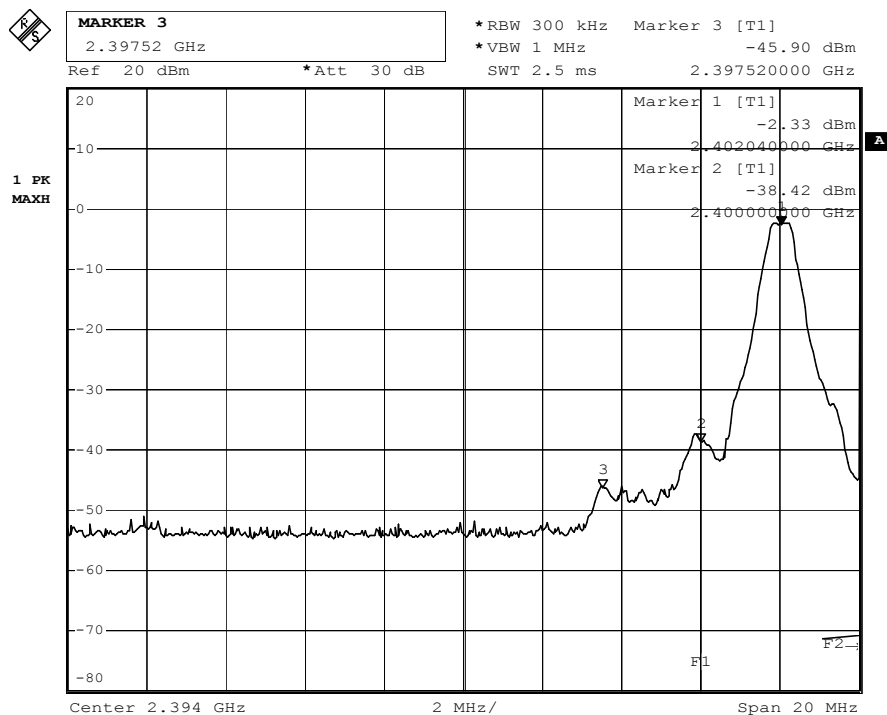
Date: 21.FEB.2005 14:51:20

Tx frequency: 2480MHz

Band Edge Compliance

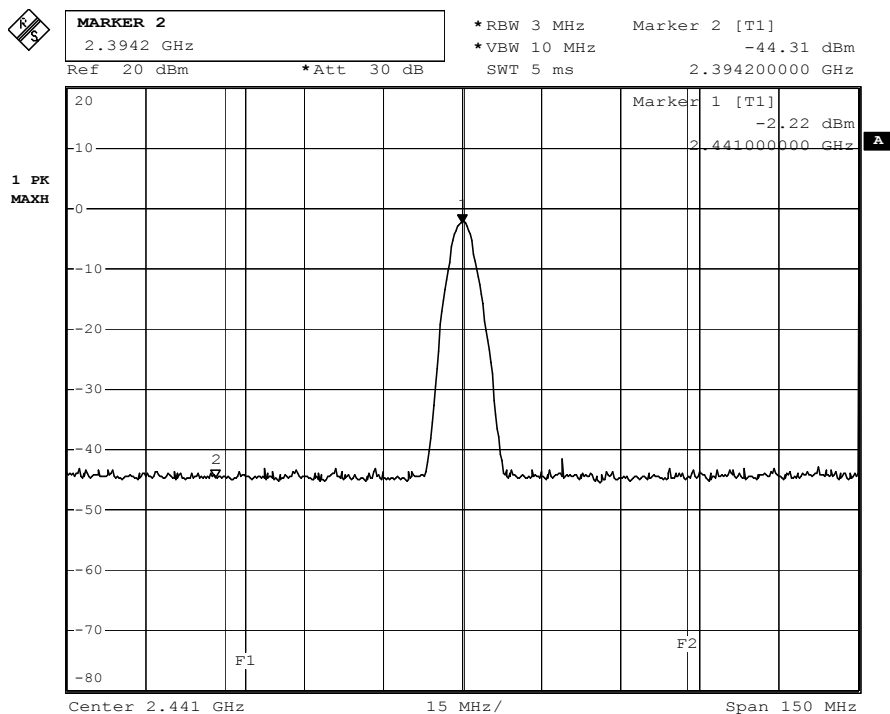
Date: 21 Feb 2005
 EUT: BTH-708
 Company: IEA Electro-Acoustic Co., Ltd.
 Humidity: 60%
 Temperature: 23°C
 Voltage supply: 3.7V from rechargeable battery
 Test by: Sharon Li
 Op. mode: TX mode, DH1 with PRBS9 payload

Tx Frequency (MHz)	Peak in band Power level (dBm)	RF power outside 100kHz BW (MHz)	RF power difference outside 100kHz BW (dB)	Results
2402	-2.33	No Peak	-	Pass
2480	-2.13	No Peak	-	Pass



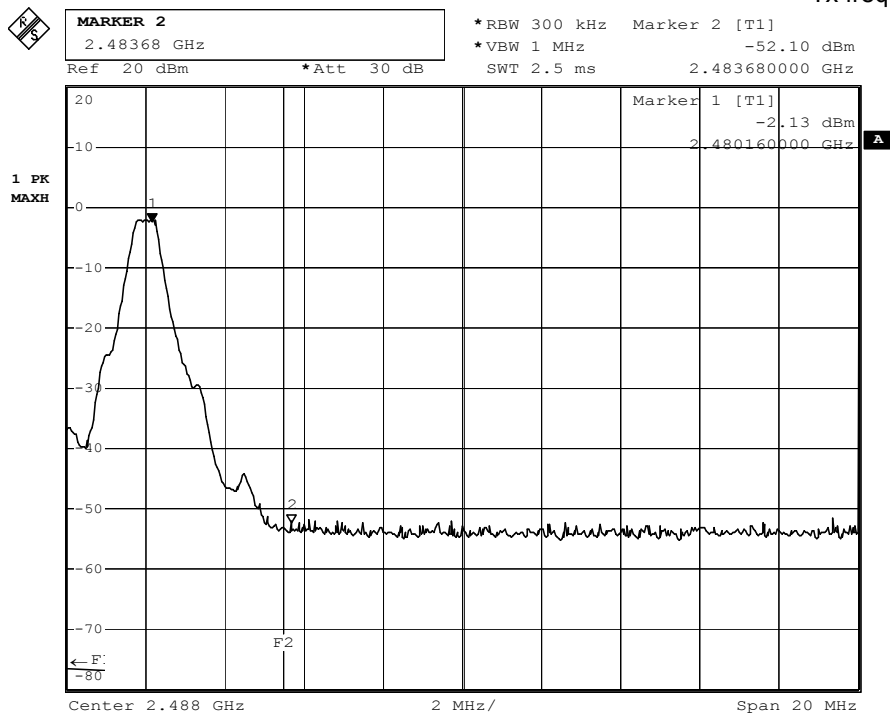
Date: 21.FEB.2005 14:55:26

Tx frequency: 2402MHz



Date: 21.FEB.2005 14:57:36

Tx frequency: 2441MHz



Date: 21.FEB.2005 15:01:05

Tx frequency: 2480MHz

Spurious Emissions - Conducted

Date: 21 Feb 2005

EUT: BTH-708

Company: IEA Electro-Acoustic Co., Ltd.

Humidity: 60%

Temperature: 23°C

Voltage supply: 3.7V from rechargeable battery

Test by: Sharon Li

Op. mode: TX mode, DH1 with PRBS9 payload

Tx frequency : 2402MHz

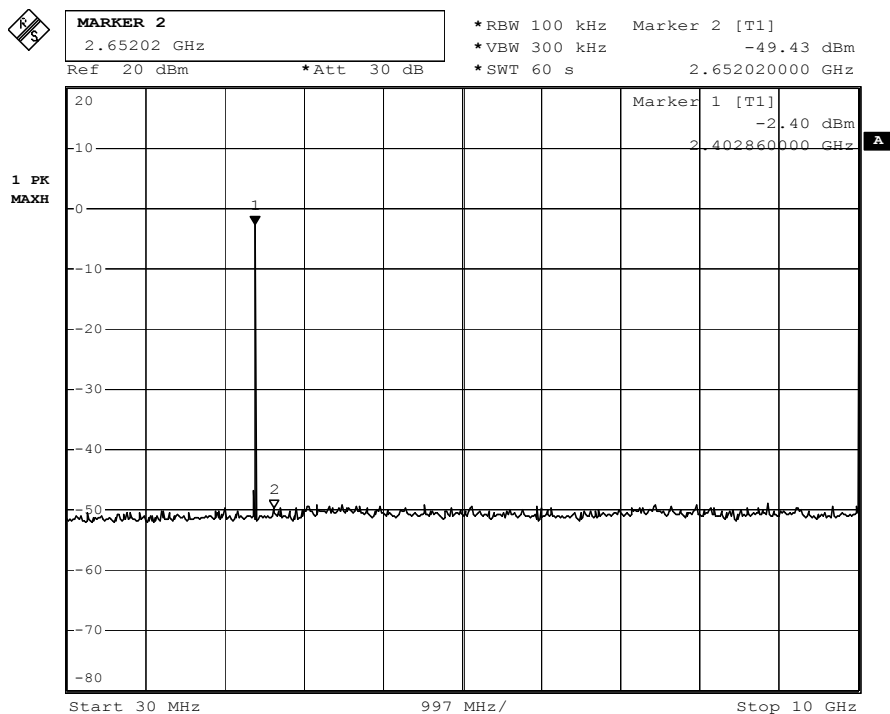
Spurious Frequency (MHz)	Power level (dBm)	Reference value (dBm)	Delta to reference level (dB)	Results
No peak found	-	-	-	Pass

Tx frequency : 2441MHz

Spurious Frequency (MHz)	Power level (dBm)	Reference value (dBm)	Delta to reference level (dB)	Results
No peak found	-	-	-	Pass

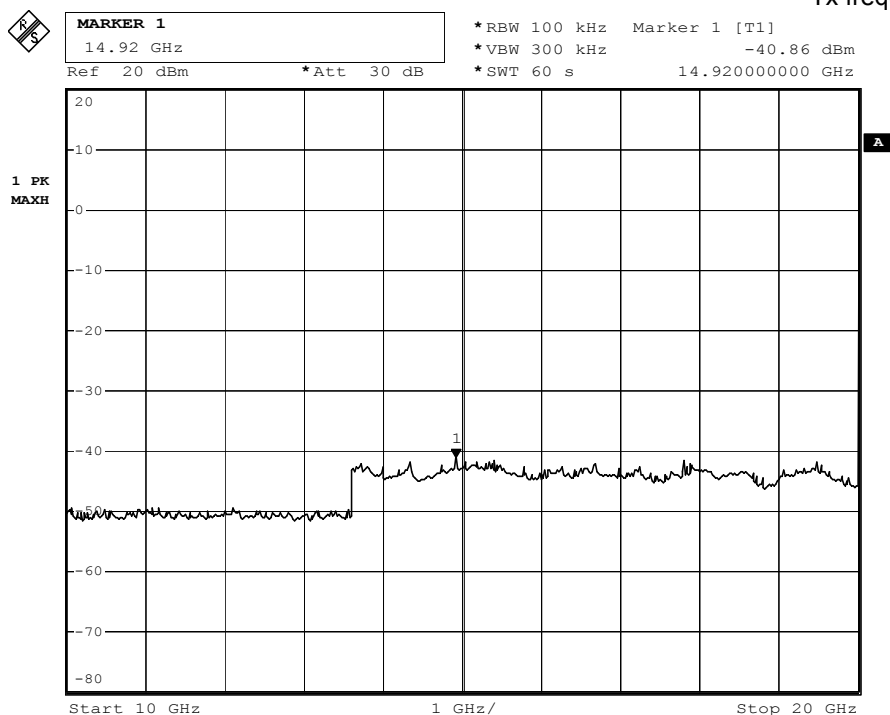
Tx frequency : 2480MHz

Spurious Frequency (MHz)	Power level (dBm)	Reference value (dBm)	Delta to reference level (dB)	Results
No peak found	-	-	-	Pass



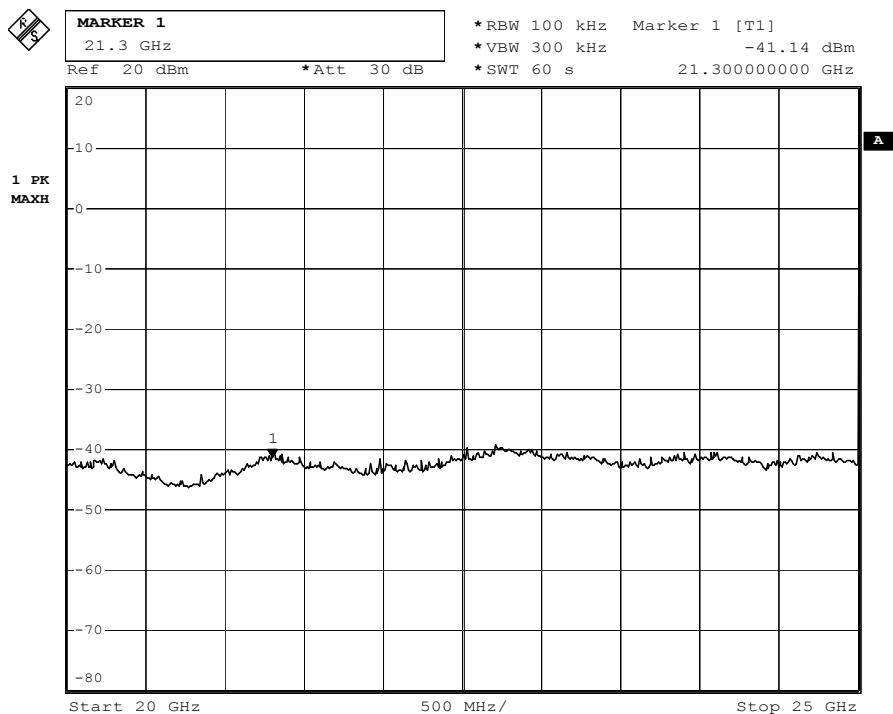
Date: 21.FEB.2005 15:07:37

Tx frequency: 2402MHz



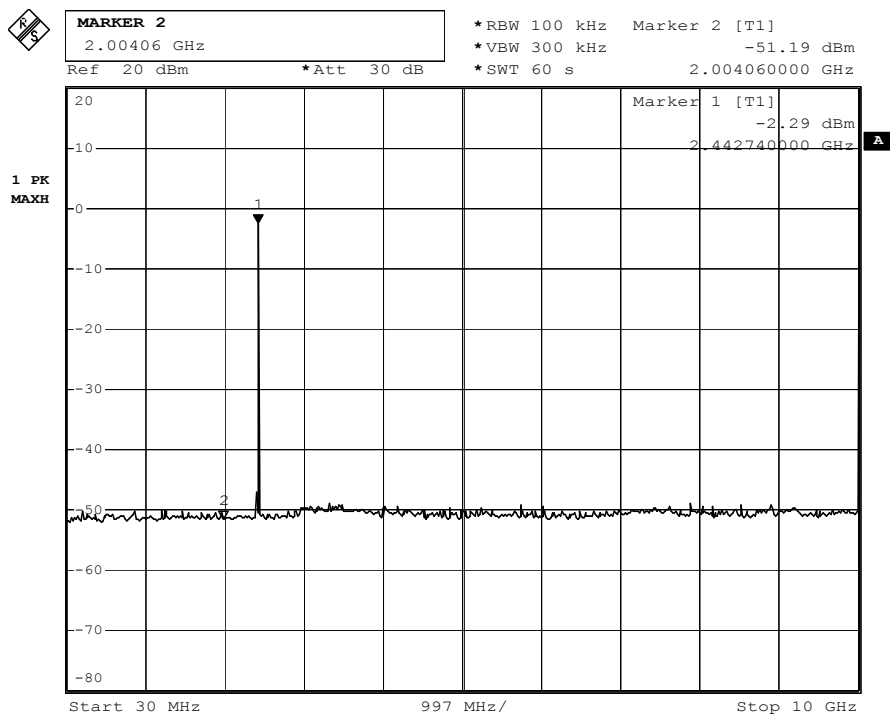
Date: 21.FEB.2005 15:11:12

Tx frequency: 2402MHz



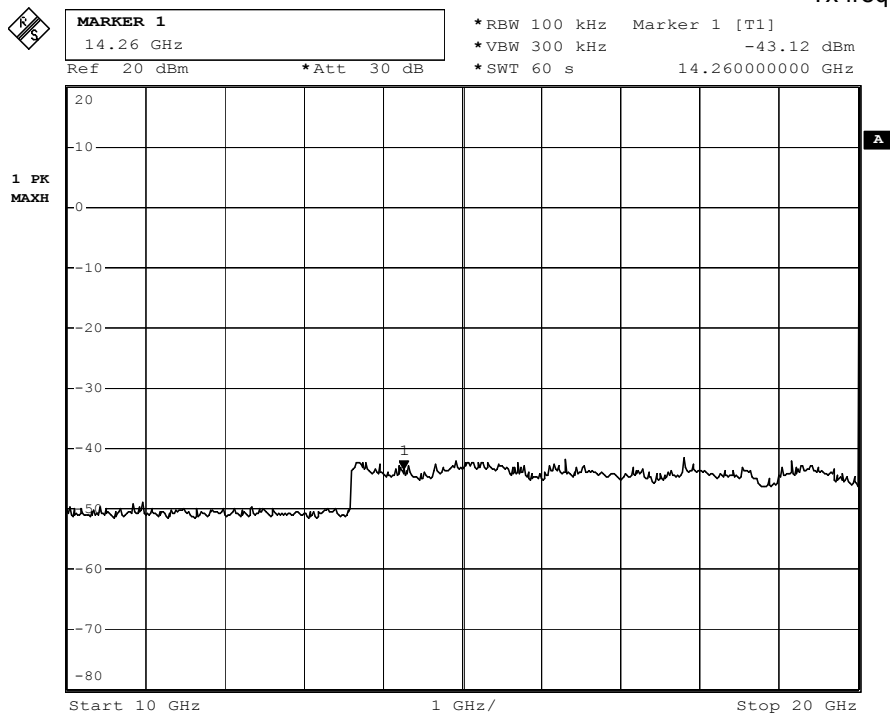
Date: 21.FEB.2005 15:18:28

Tx frequency: 2402MHz



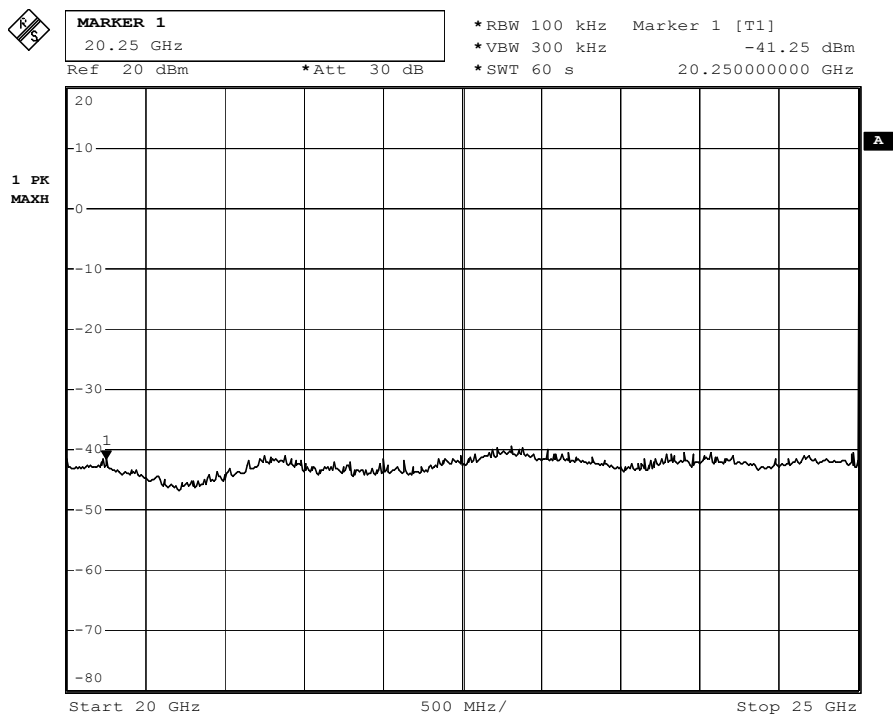
Date: 21.FEB.2005 15:25:56

Tx frequency: 2441MHz



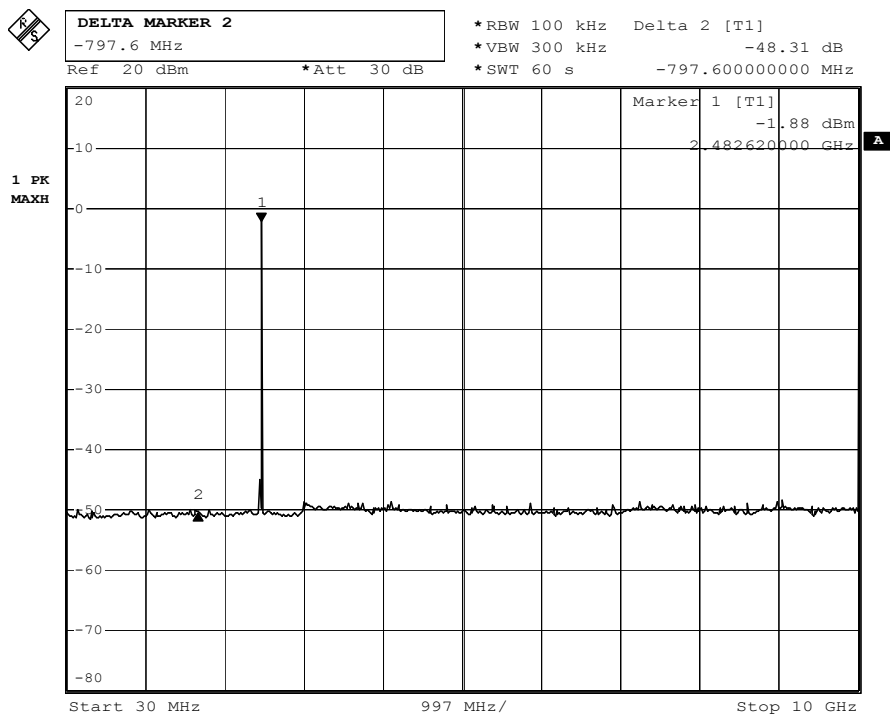
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Tx frequency: 2441MHz



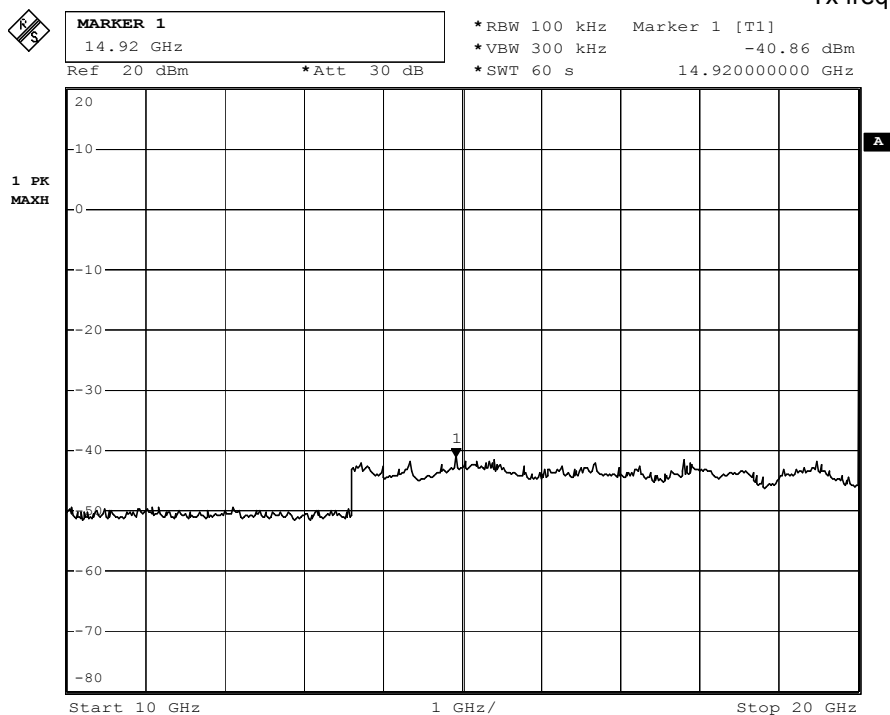
Date: 21.FEB.2005 15:32:01

Tx frequency: 2441MHz



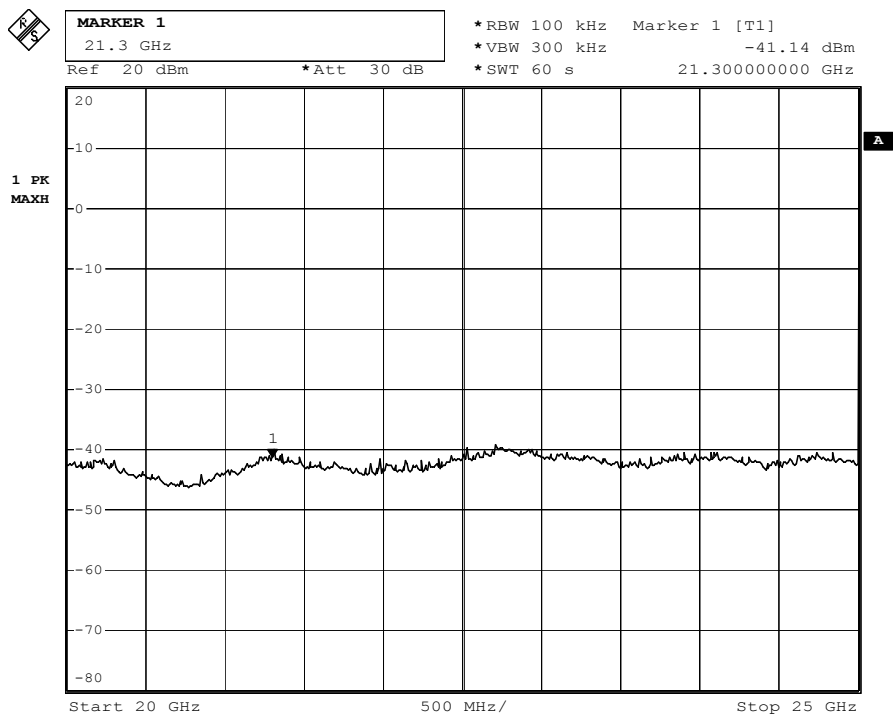
Date: 21.FEB.2005 15:50:14

Tx frequency: 2480MHz



Date: 21.FEB.2005 15:11:12

Tx frequency: 2480MHz



Date: 21.FEB.2005 15:18:28

Tx frequency: 2480MHz

Spurious Emissions - Radiated

Date: 21 Feb 2005

EUT: BTH-708

Company: IEA Electro-Acoustic Co., Ltd.

Voltage supply: 3.7V from rechargeable battery

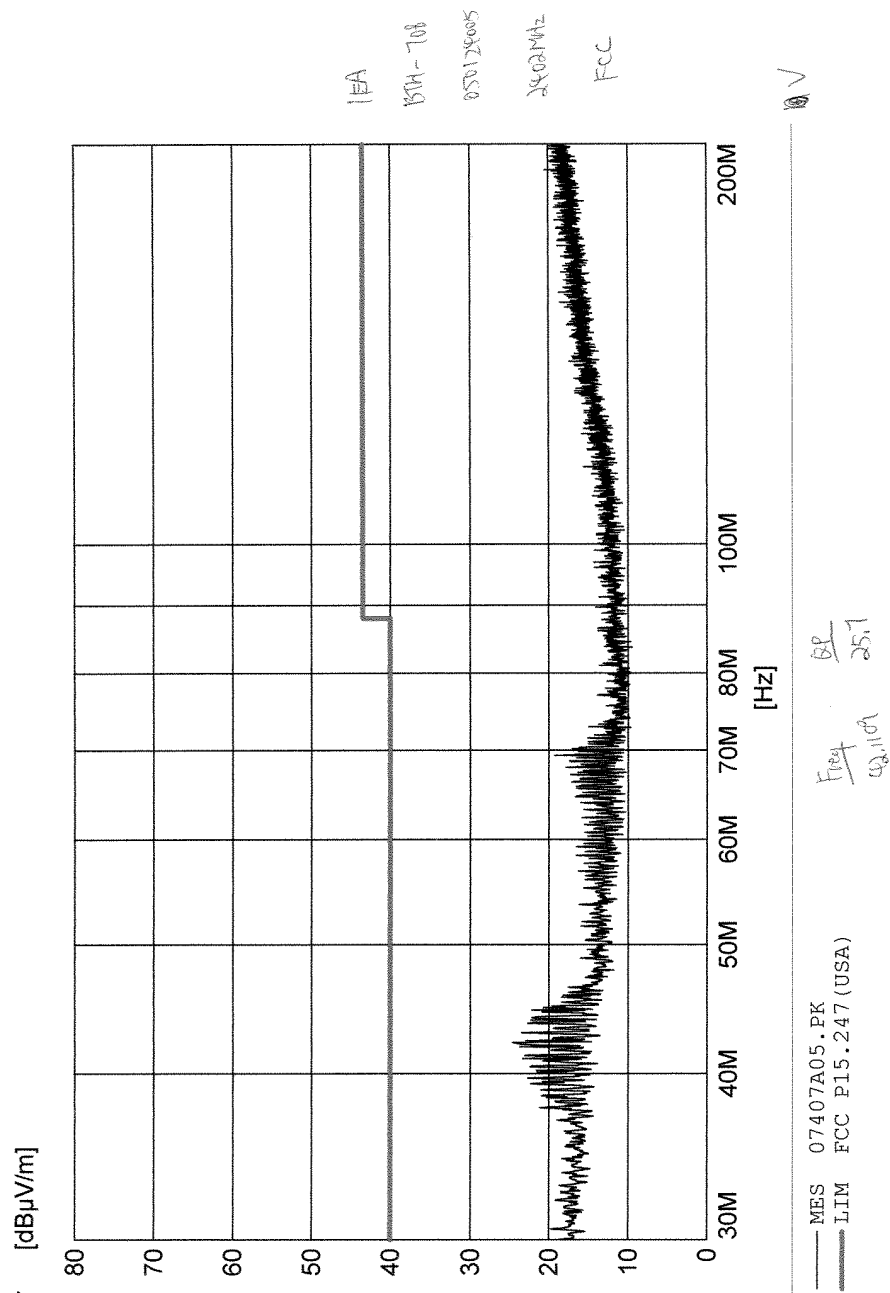
Test by: Sharon Li

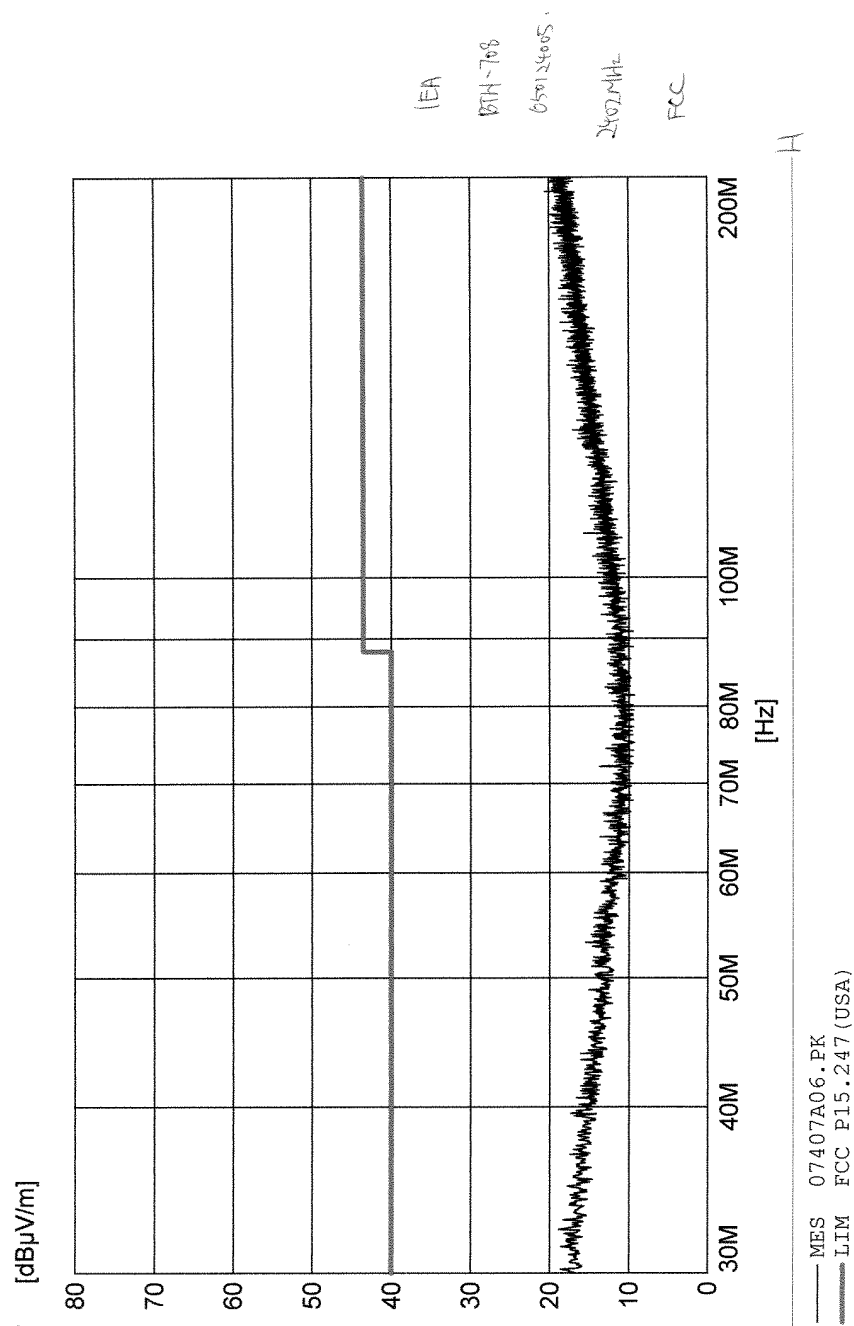
Op. mode: TX mode, DH1 with PRBS9 payload

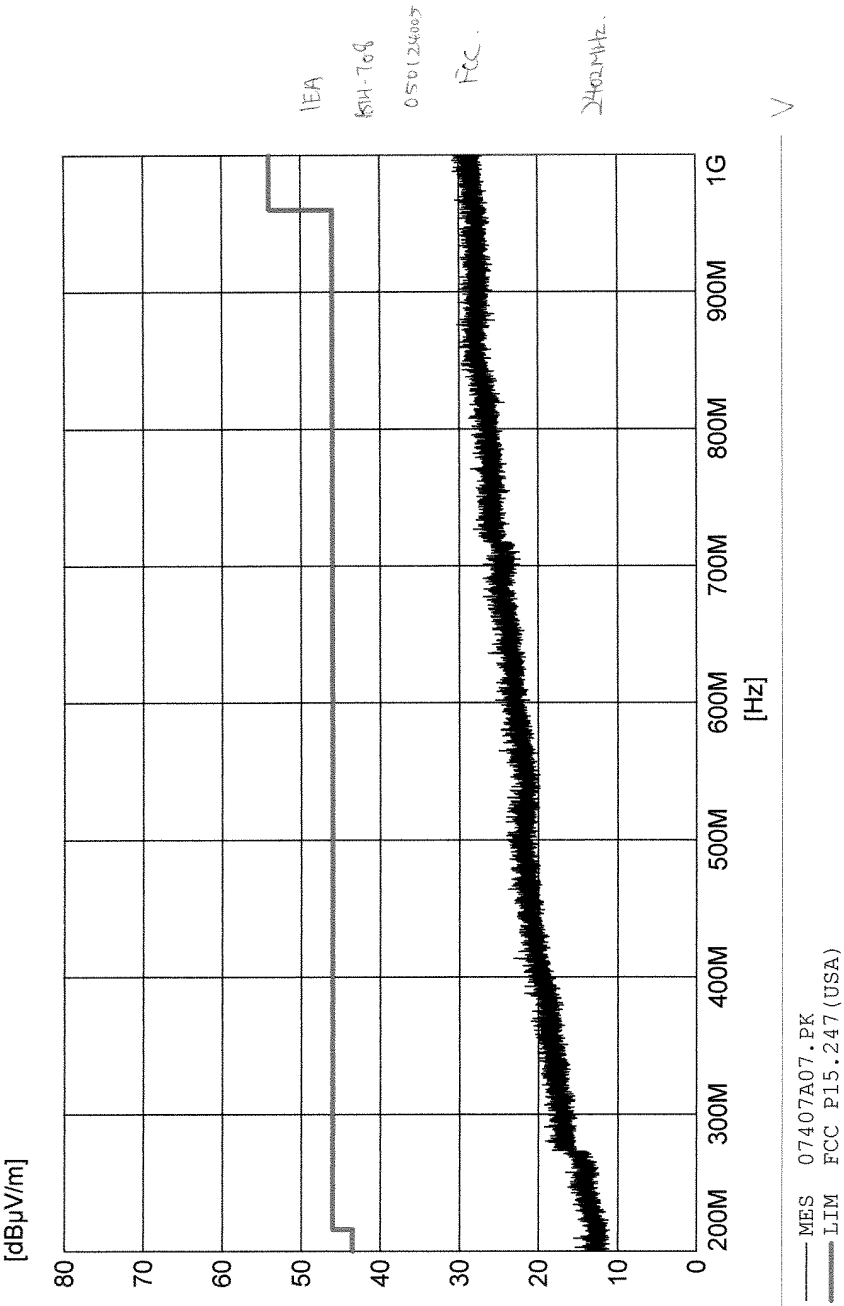
Tx frequency (MHz)	Polarization	Spurious Frequency (MHz)	Power Level (dBuV/m)	Detector (P/QP/A)
2402	V	42.111	25.70	QP
2402	V	1200.460	37.21	P
2402	V	1200.520	36.18	A
2402	H	1200.500	42.49	P
2402	H	1200.500	41.02	A

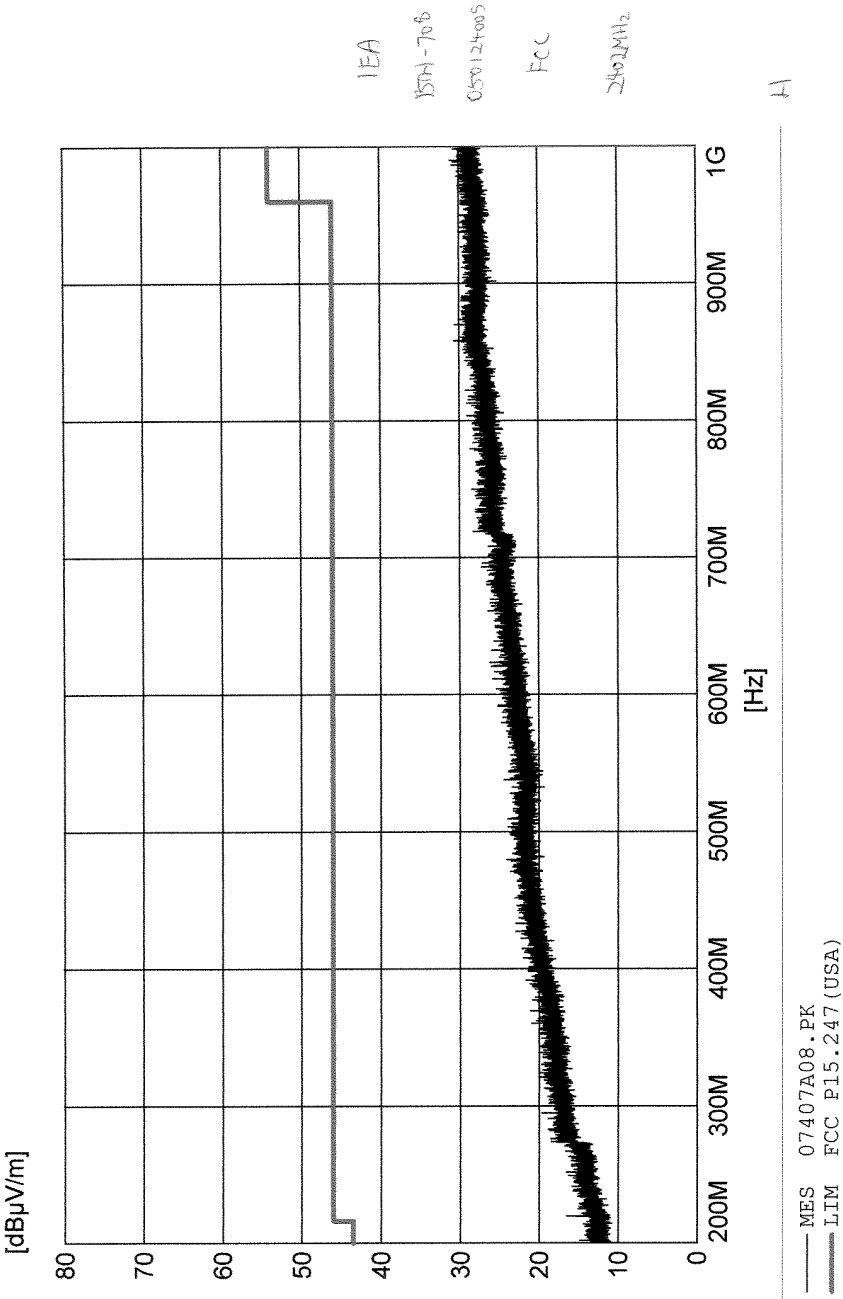
Tx frequency (MHz)	Polarization	Spurious Frequency (MHz)	Power Level (dBuV/m)	Detector (P/QP/A)
2441	V	42.560	23.60	QP
2441	V	1220.020	39.36	P
2441	V	1220.020	37.96	A
2441	H	1220.020	43.53	P
2441	H	1220.020	40.99	A

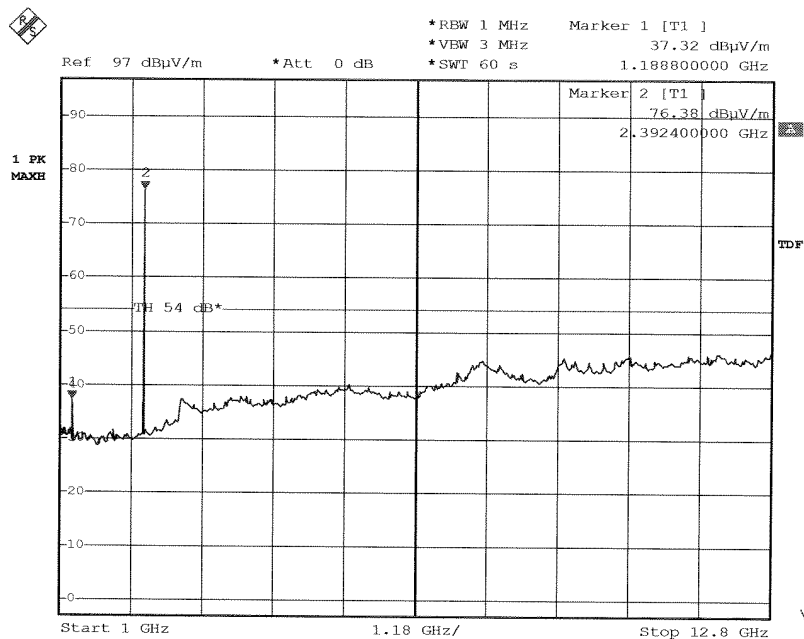
Tx frequency (MHz)	Polarization	Spurious Frequency (MHz)	Power Level (dBuV/m)	Detector (P/QP/A)
2480	V	39.314	20.40	QP
2480	V	1239.490	39.99	P
2480	V	1239.490	38.63	A
2480	H	1239.490	45.40	P
2480	H	1239.490	44.69	A







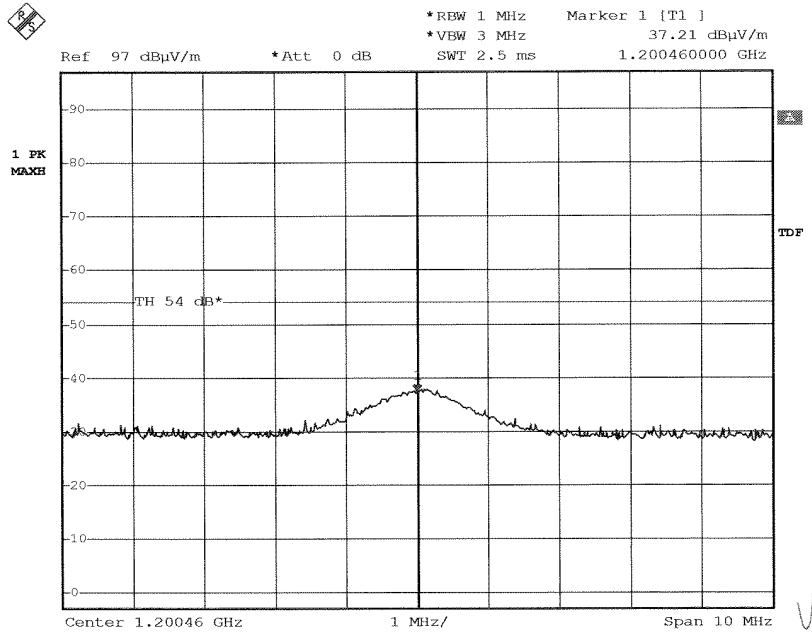




Date: 21.FEB.2005 21:45:11

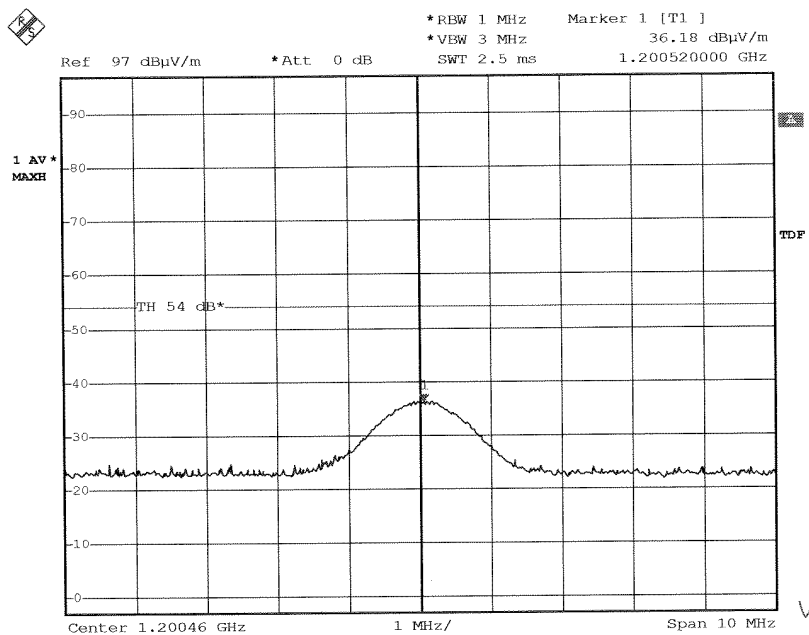
IEA
 BTH-708
 050124005
 2402MHz

FCC



Date: 21.FEB.2005 21:51:59

IEA
 BTA-708
 05012405
 2402MHz
 FCC



Date: 21.FEB.2005 21:54:17

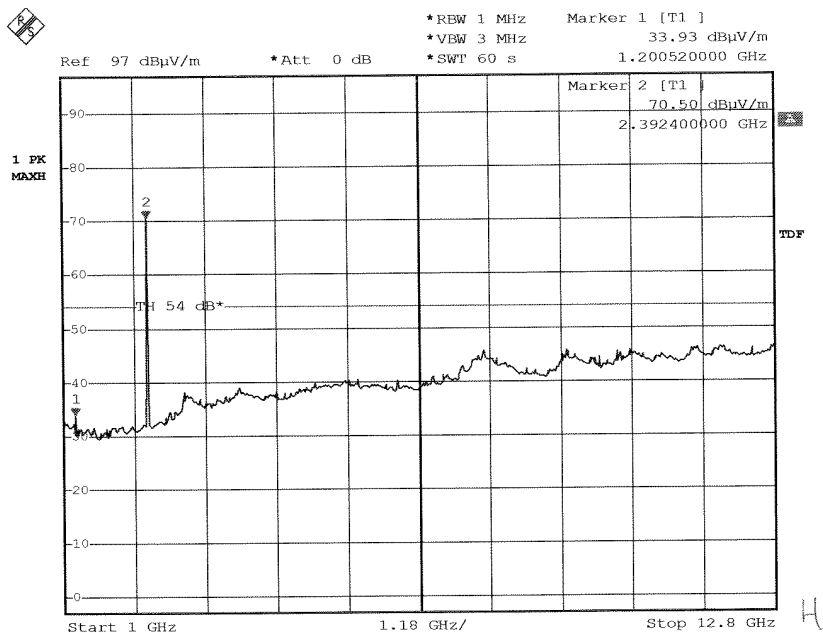
IEA

BTH-708

030124005

2402MHz

FCC.



Date: 21.FEB.2005 21:57:59

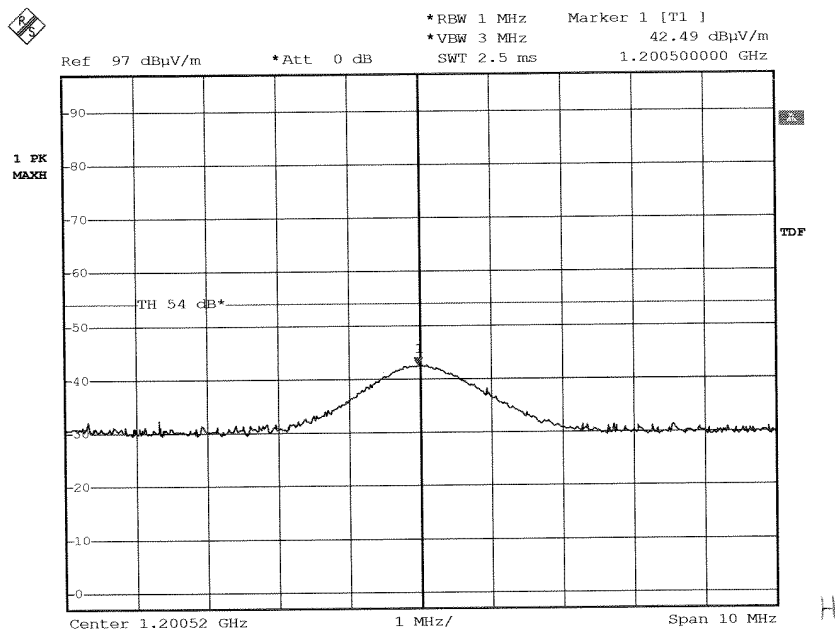
IEA

614-708

050124005

2402MHz

FCC



Date: 21.FEB.2005 22:02:53

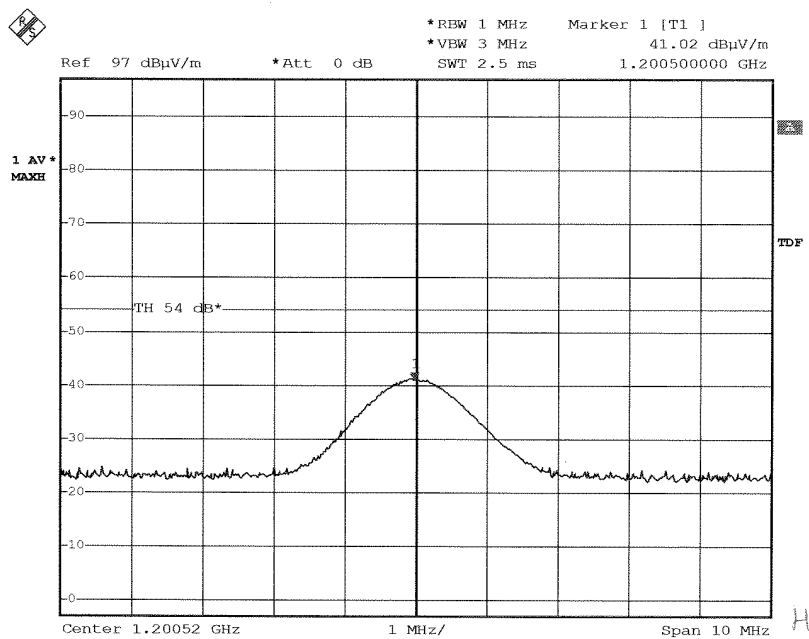
IEA

BTH-708

050124005

2402 MHz

FCC.



Date: 21.FEB.2005 22:05:02

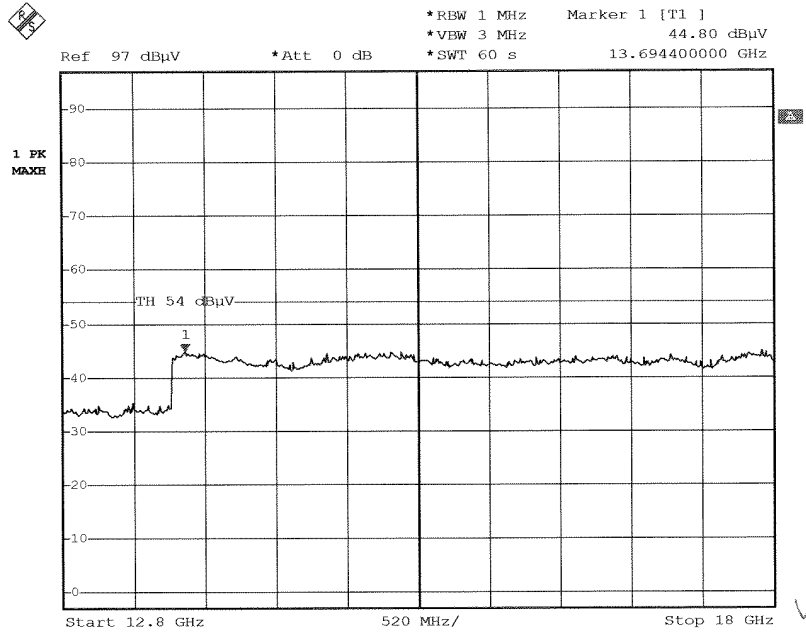
IEA

BTH-708

050124005

2402MHz

FCC



Date: 21.FEB.2005 23:01:49

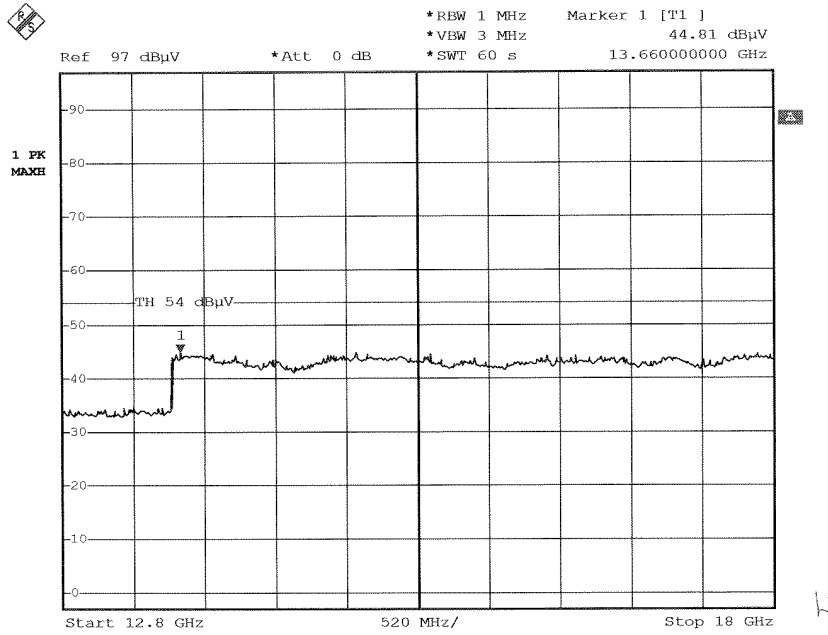
IEA

BTH-706

050124005

2402MHz.

FCC.



Date: 21.FEB.2005 23:08:32

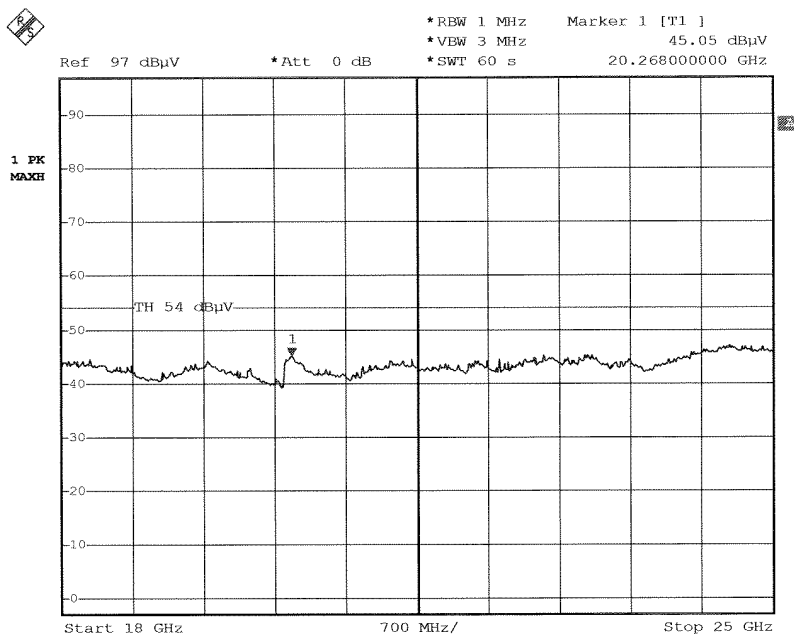
IEA

BTH-708

050124005

2402MHz

FCC



Date: 21.FEB.2005 23:12:26

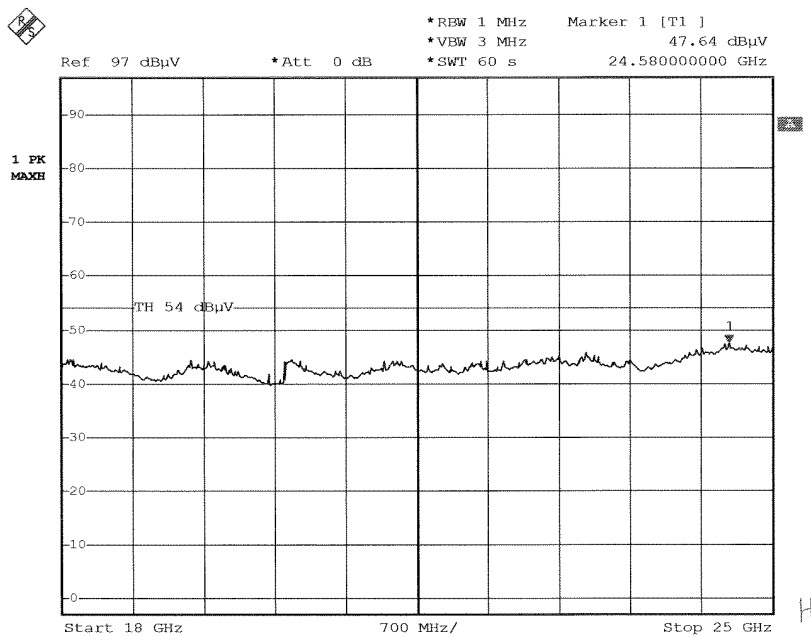
IEA

BTH-708

050124005

2402MHz

FCC.



Date: 21.FEB.2005 23:18:22

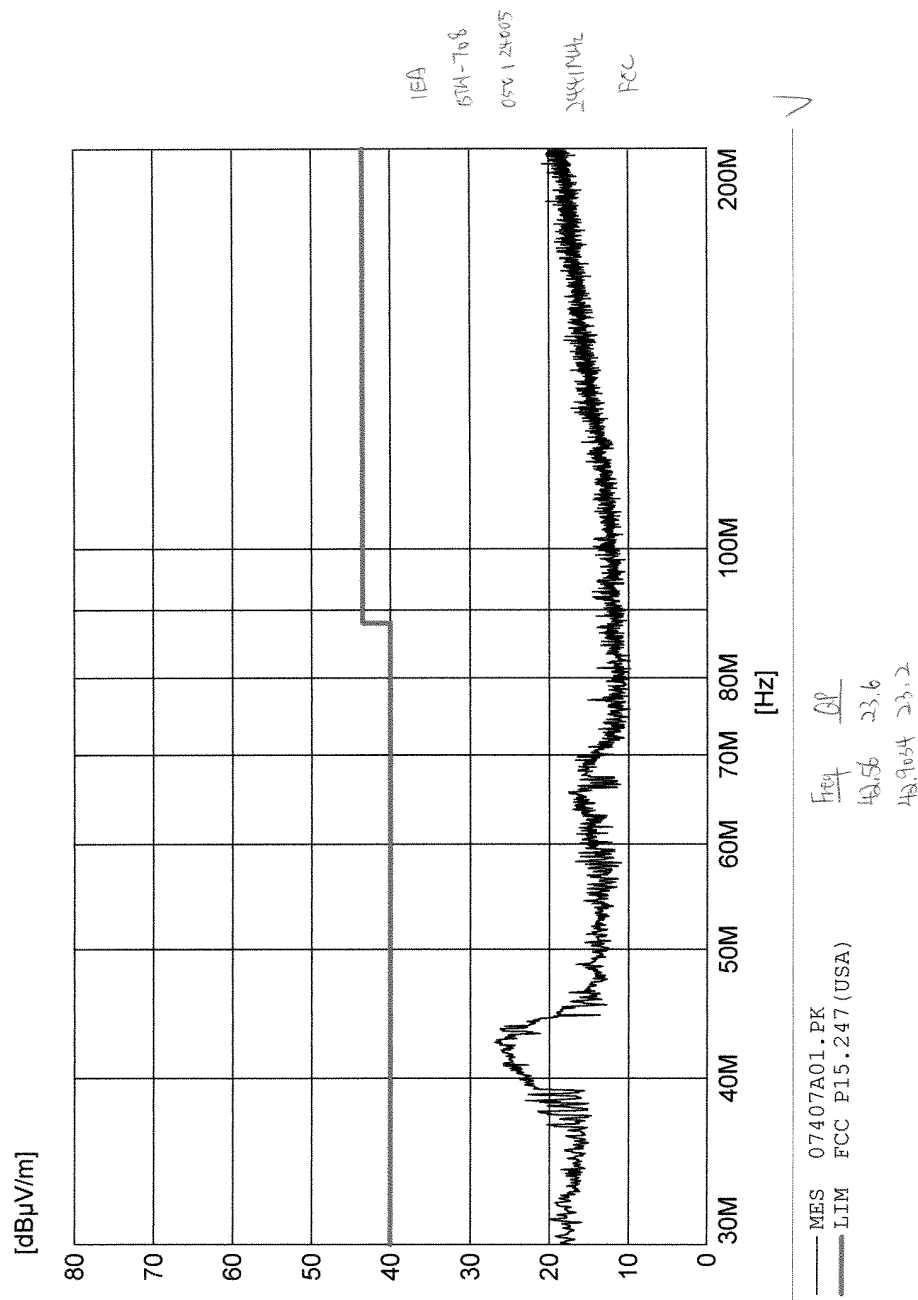
IEA

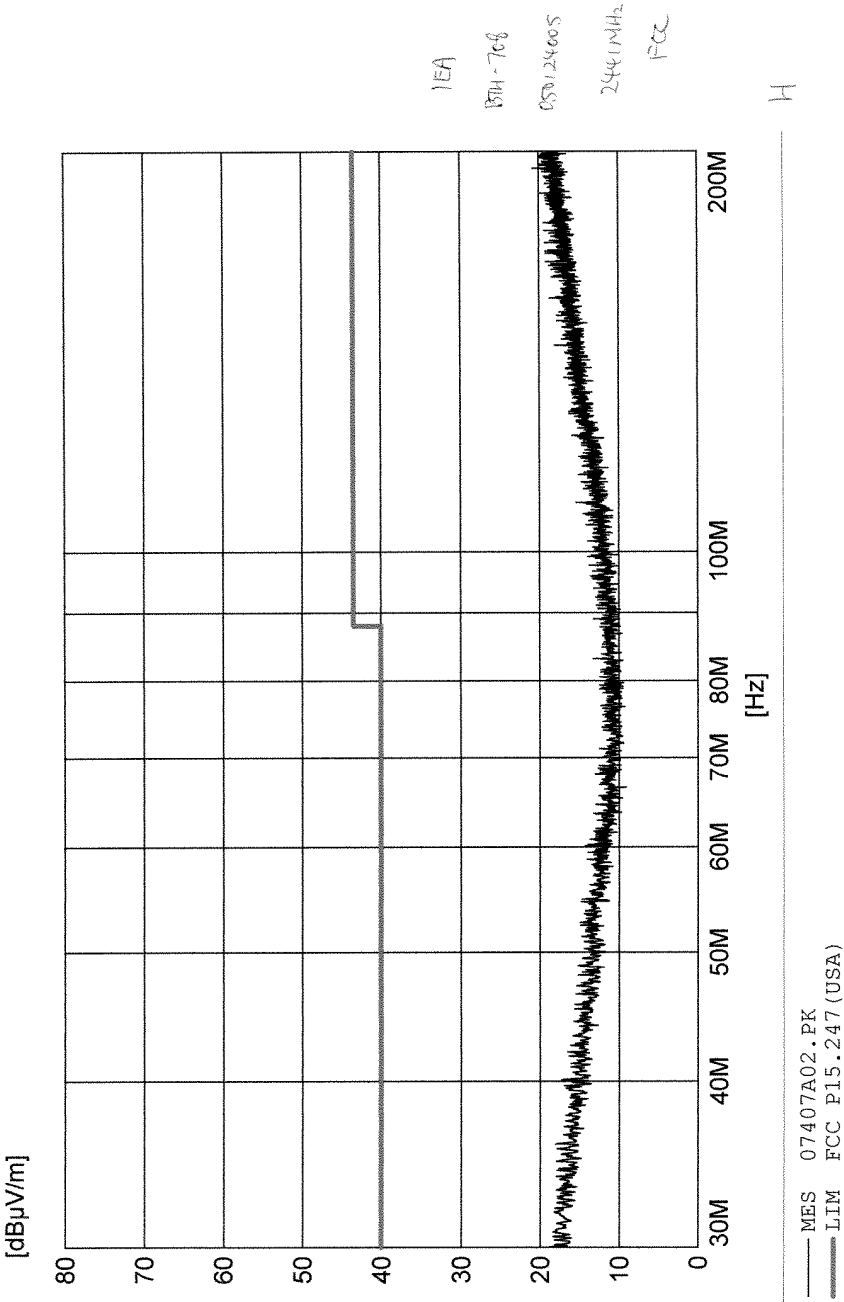
BSH-708

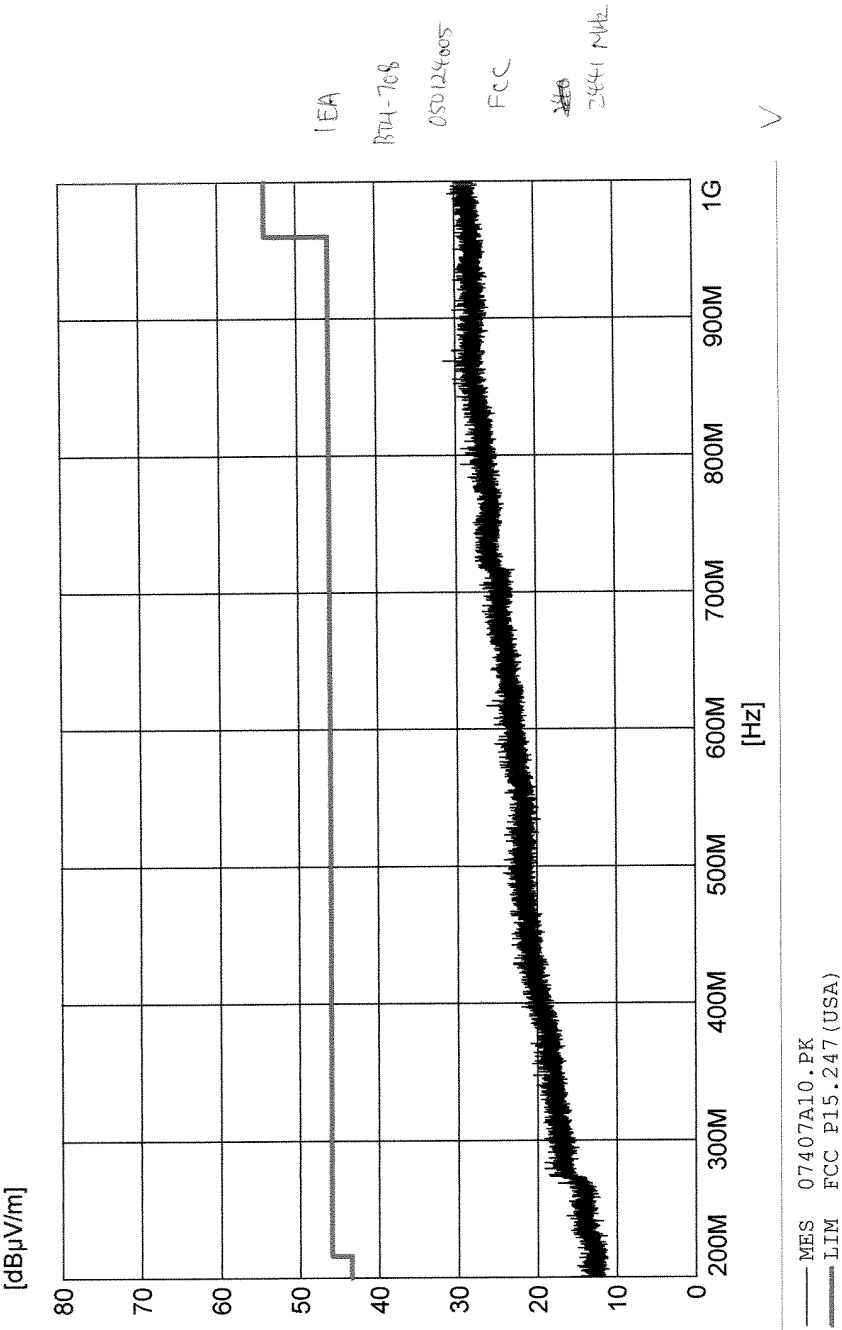
050124005

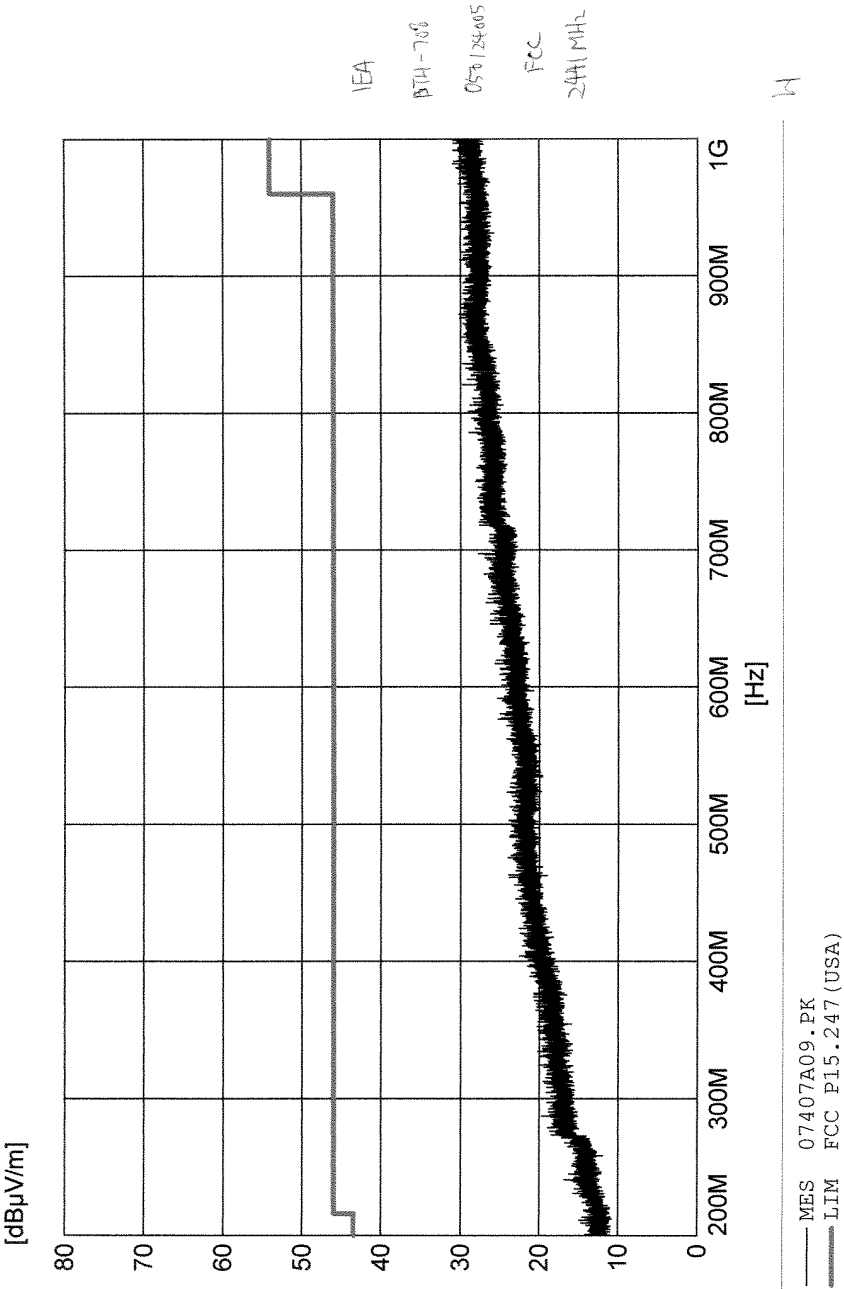
2402MHz

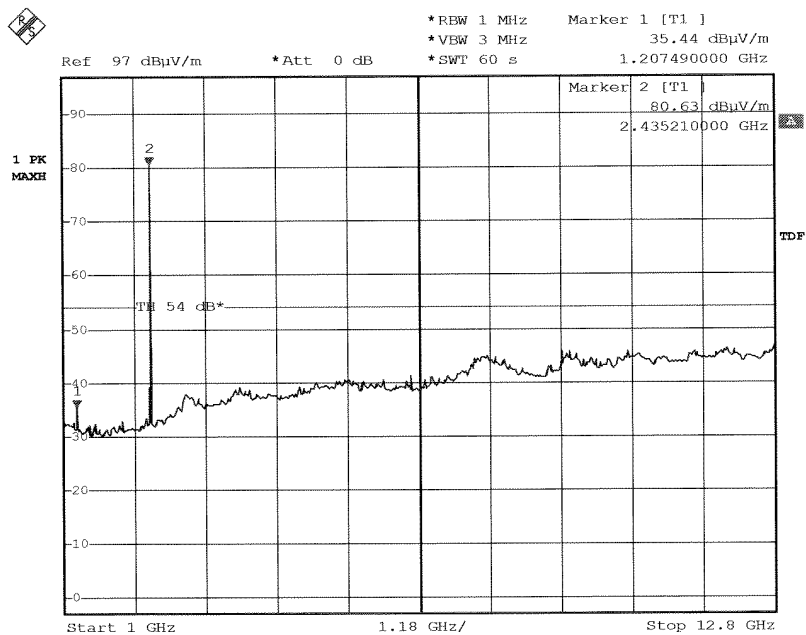
FCC.











Date: 21.FEB.2005 22:32:53

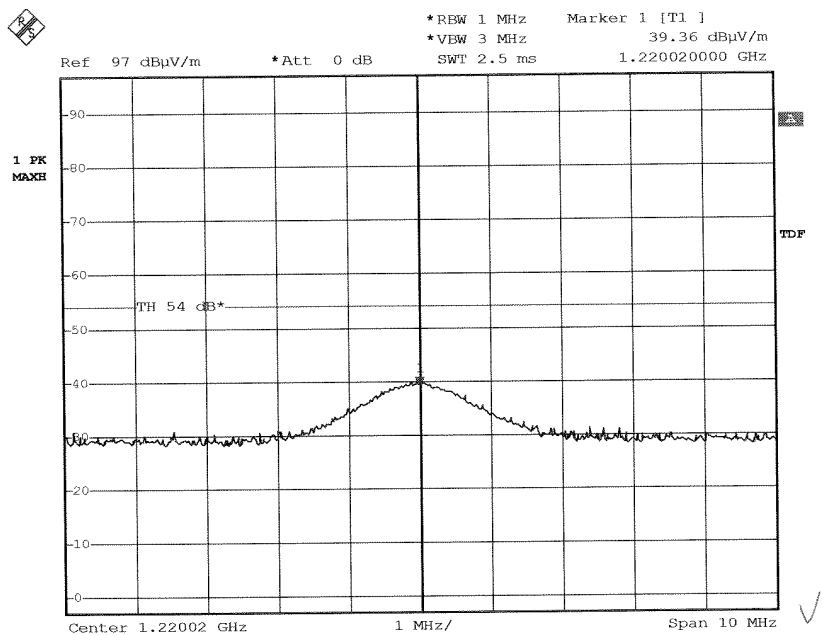
IEA

BTH-706

050124005

2441MHz

FCC.



Date: 21.FEB.2005 22:28:15

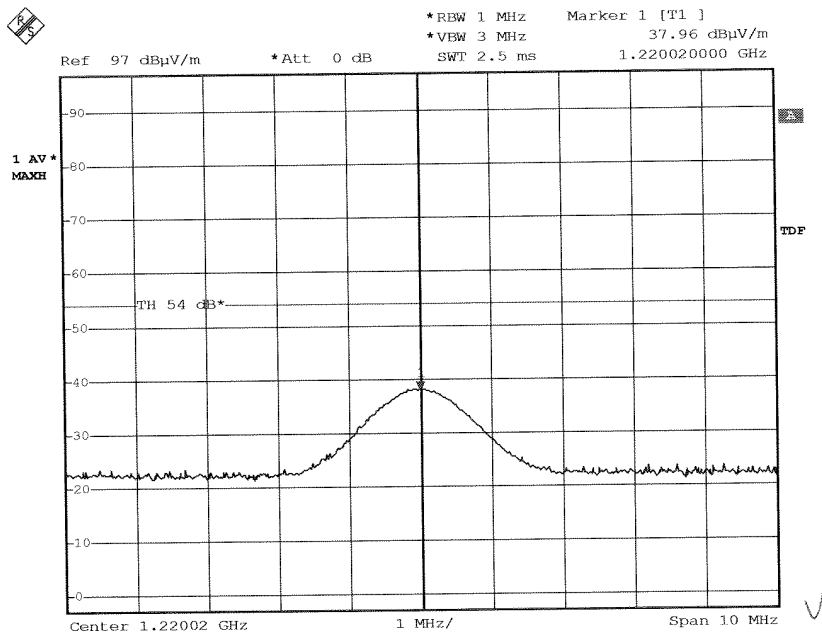
IEA

BTH-706

050124005

2441MHz

FCC



Date: 21.FEB.2005 22:26:30

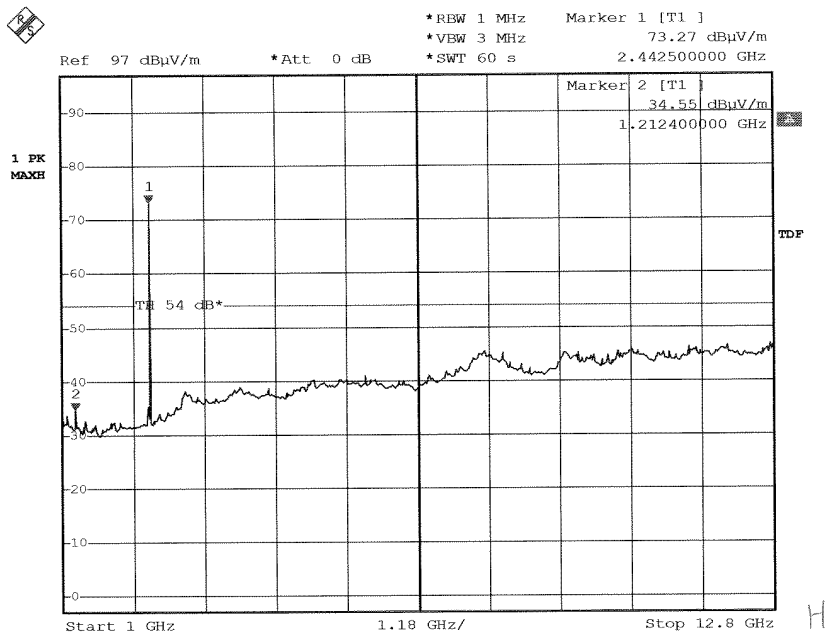
IEA

BTH-708

050124005

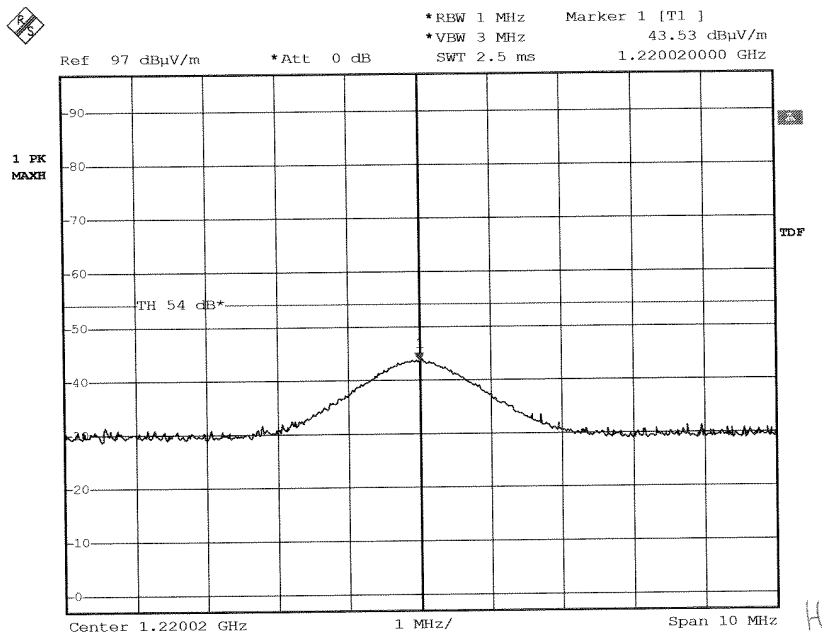
2441MHz

FCC.



Date: 21.FEB.2005 22:15:43

IEA
BTU-708
050124005
2441MHz
FCC.



Date: 21.FEB.2005 22:20:26

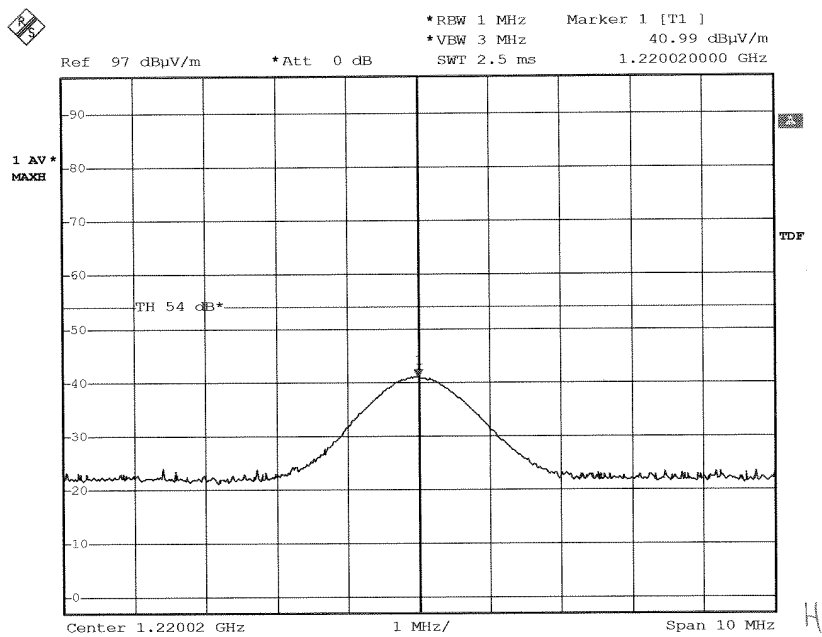
LEA

BTH-708

050124005

244 MHz

FCC



Date: 21.FEB.2005 22:24:20

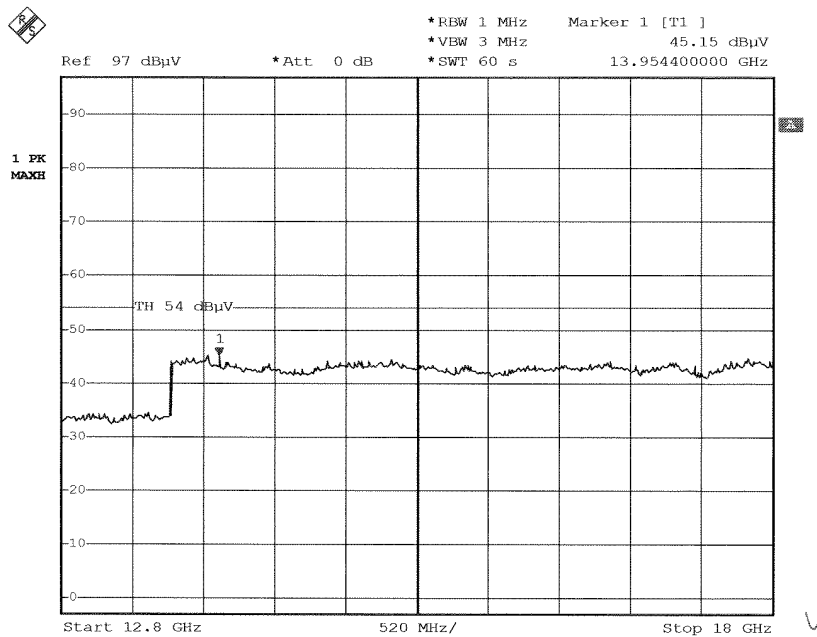
IEA

BTH-708

050124005

2441 MHz

FCC



Date: 21.FEB.2005 22:56:32

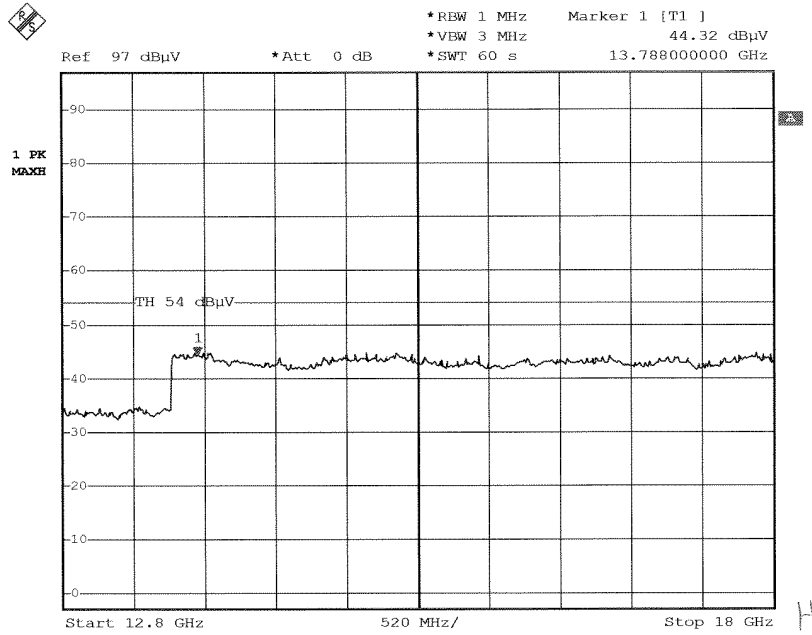
IEA

BTM-706

050124005

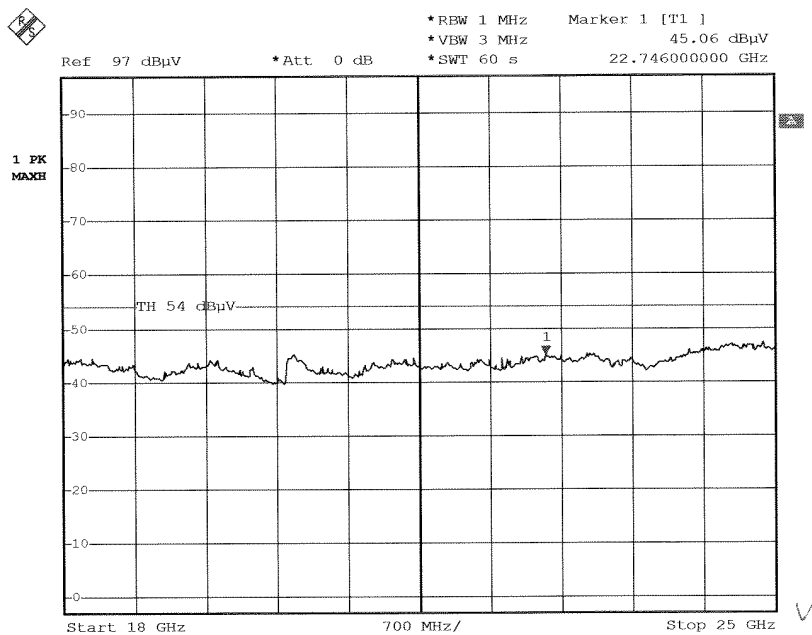
2441 MHz

FCC



Date: 21.FEB.2005 22:59:06

IEA
 BTM-708
 050124005
 2441 MHz
 FCC



Date: 21.FEB.2005 23:13:37

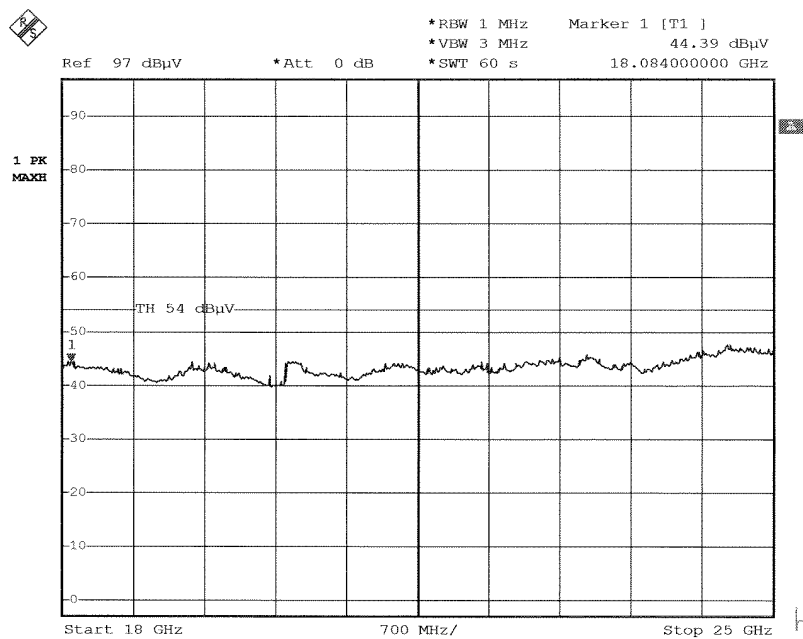
LEA

BTH-706

050124005

2441MHz

FCC



Date: 21.FEB.2005 23:19:40

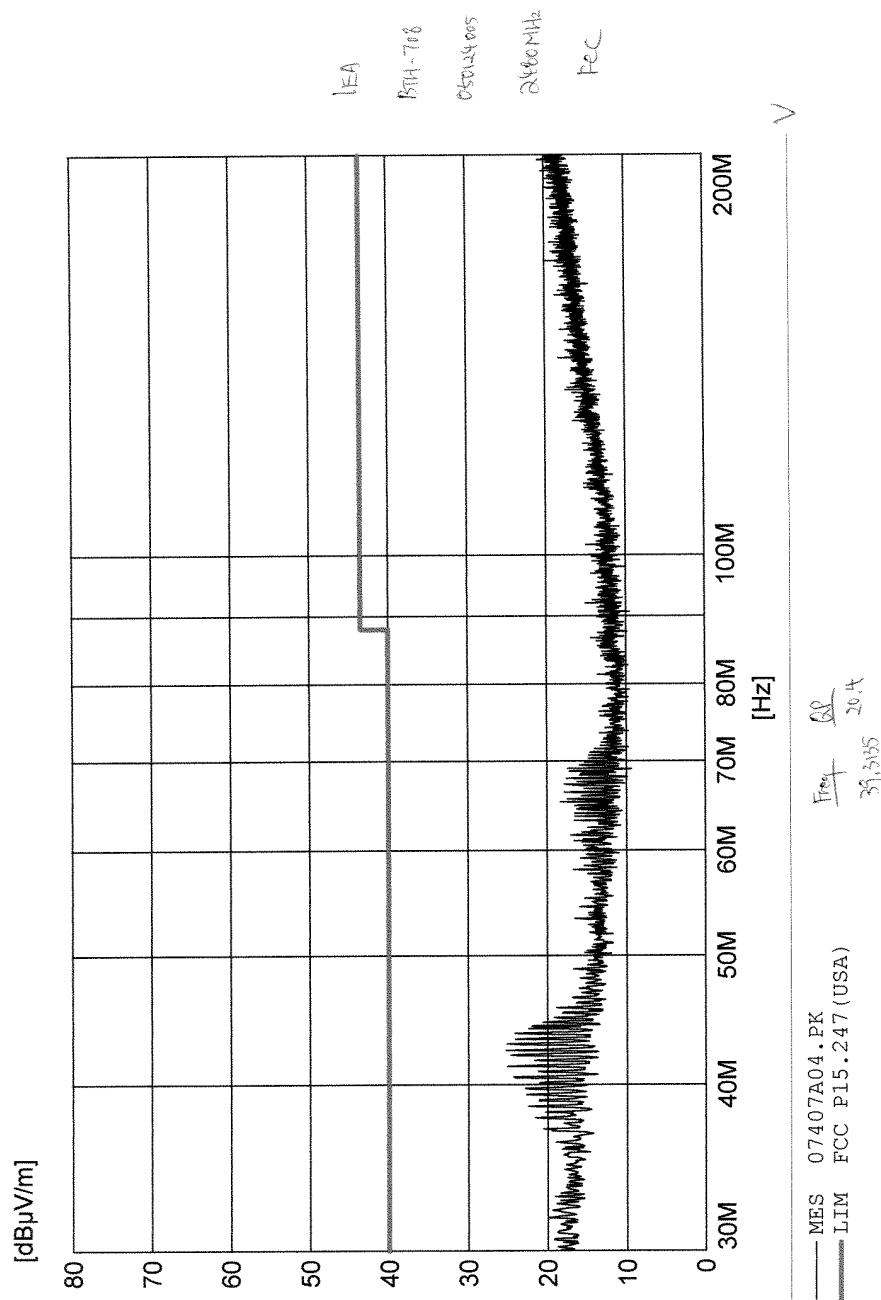
IEA

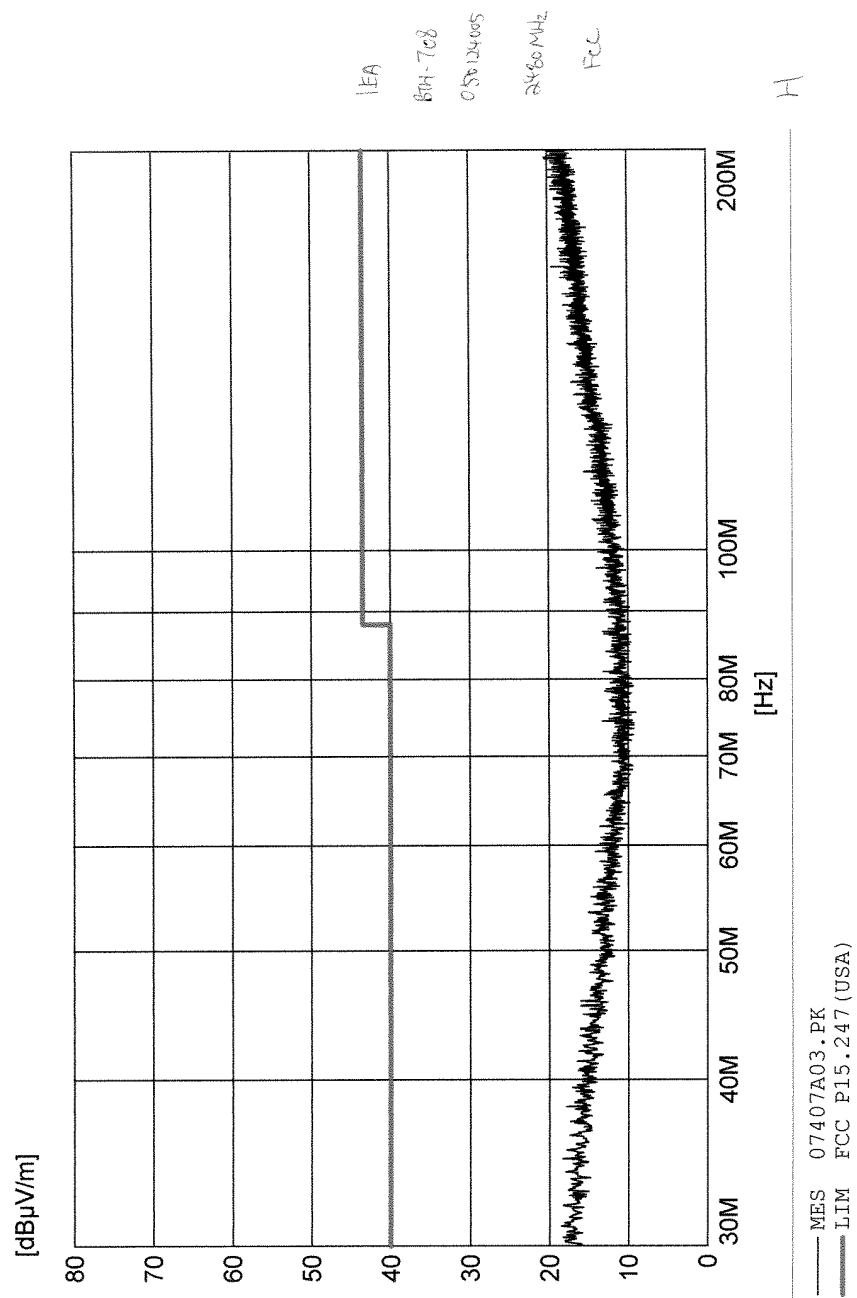
BTH-708

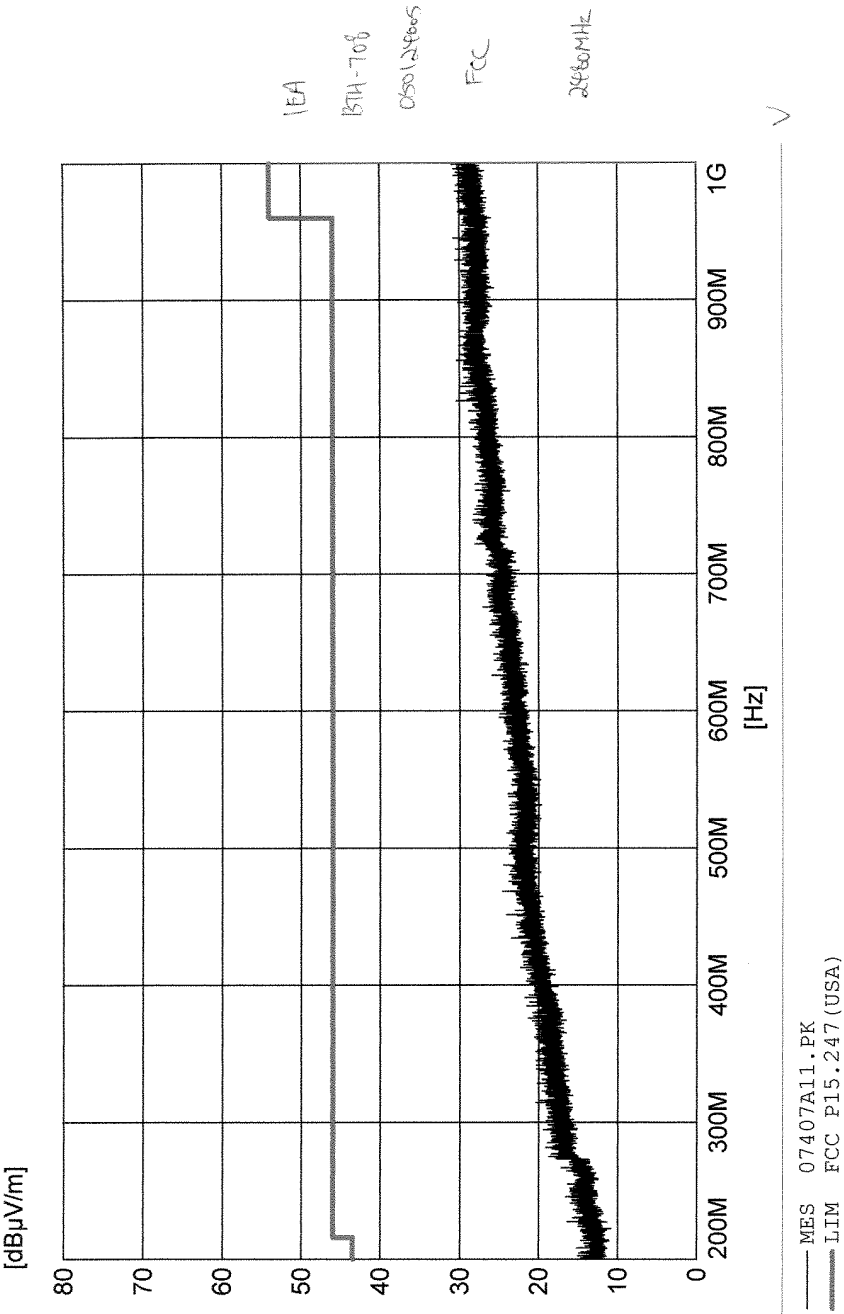
050124005

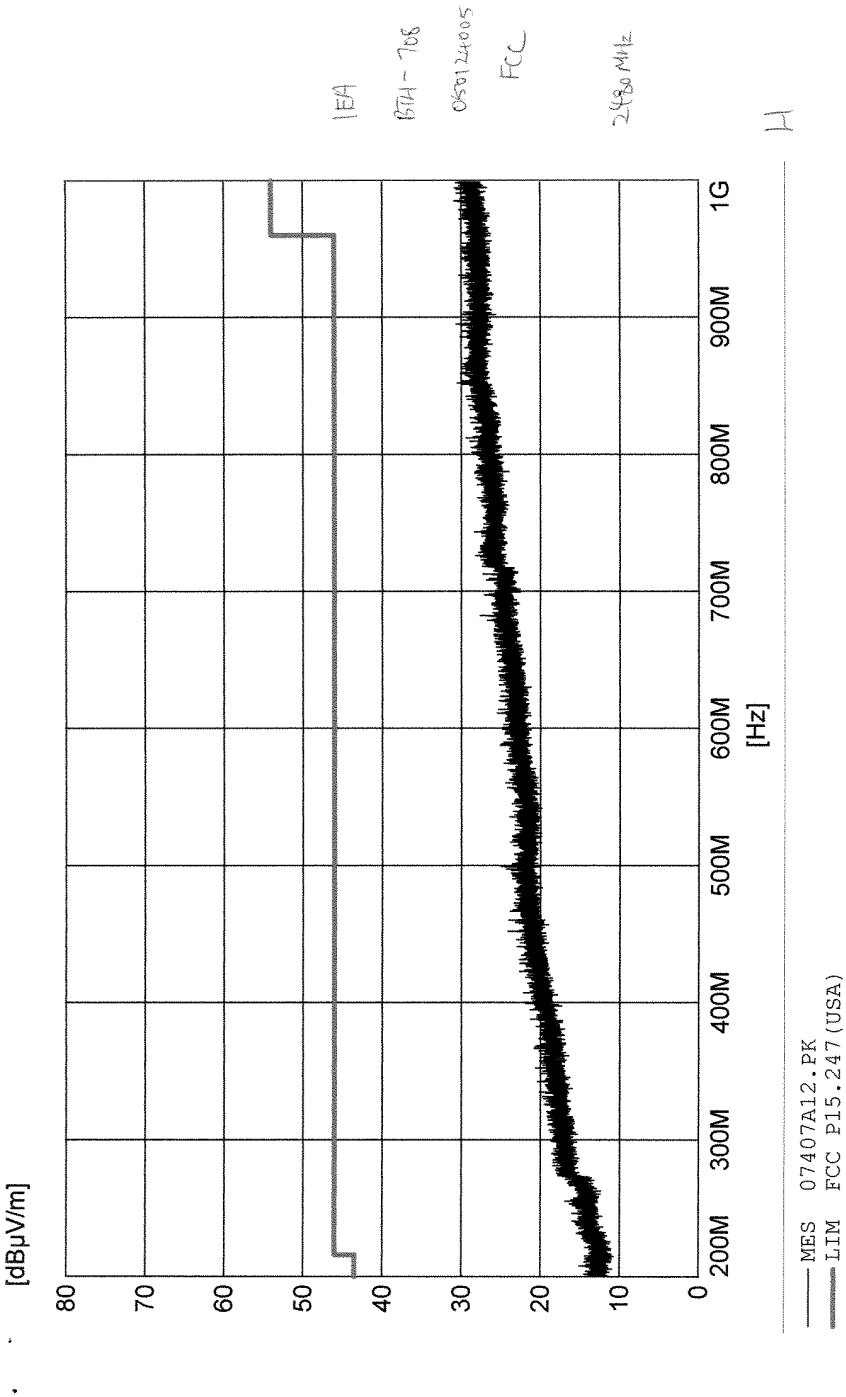
2441MHz

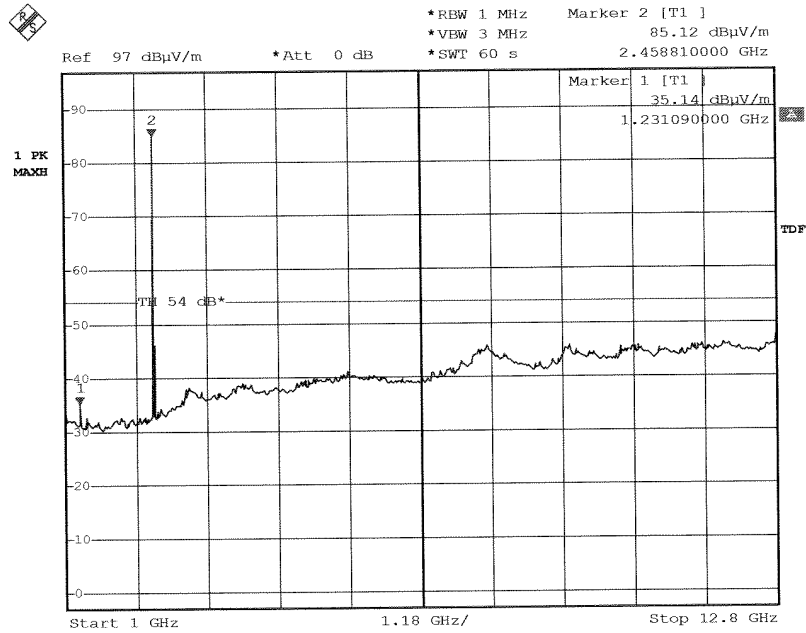
FCC











Date: 21.FEB.2005 22:36:34

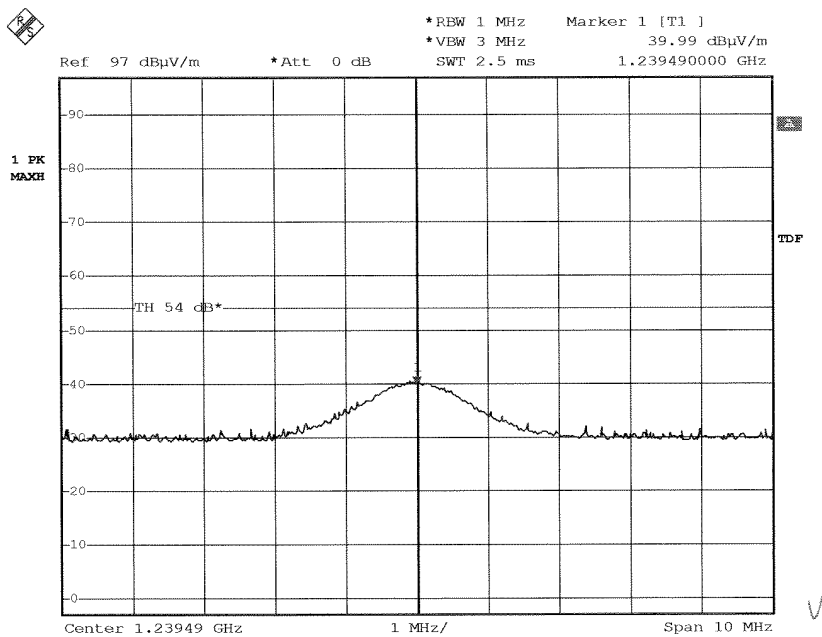
IEA

BTH-70b

050124005

2480 MHz

FCC



Date: 21.FEB.2005 22:39:03

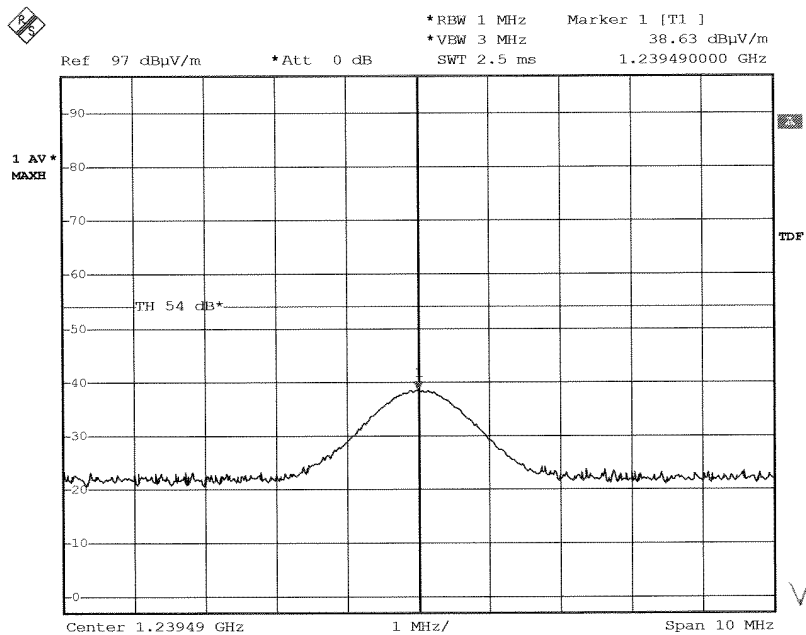
IEA

BIH-708

050124005

2480 MHz

FCC



Date: 21.FEB.2005 22:39:32

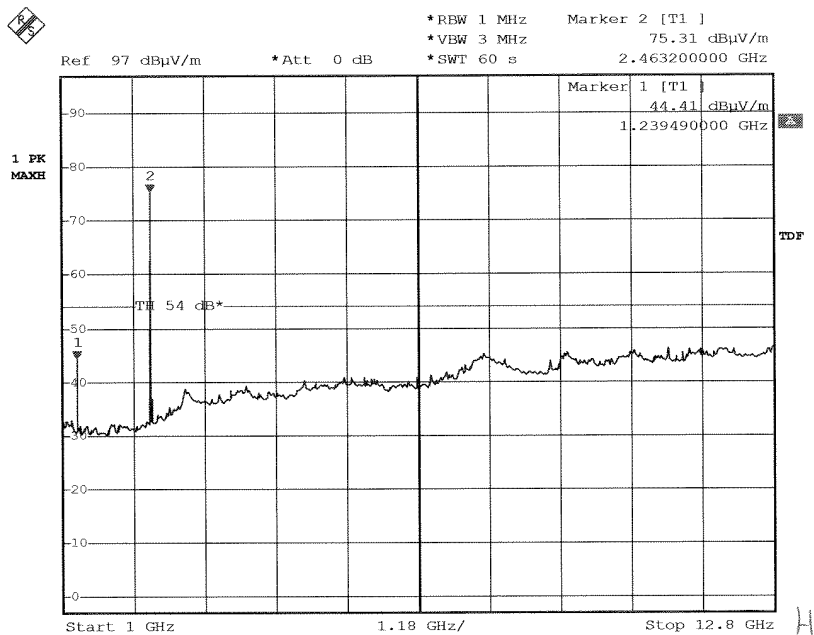
IEA

BTH-708

050124005

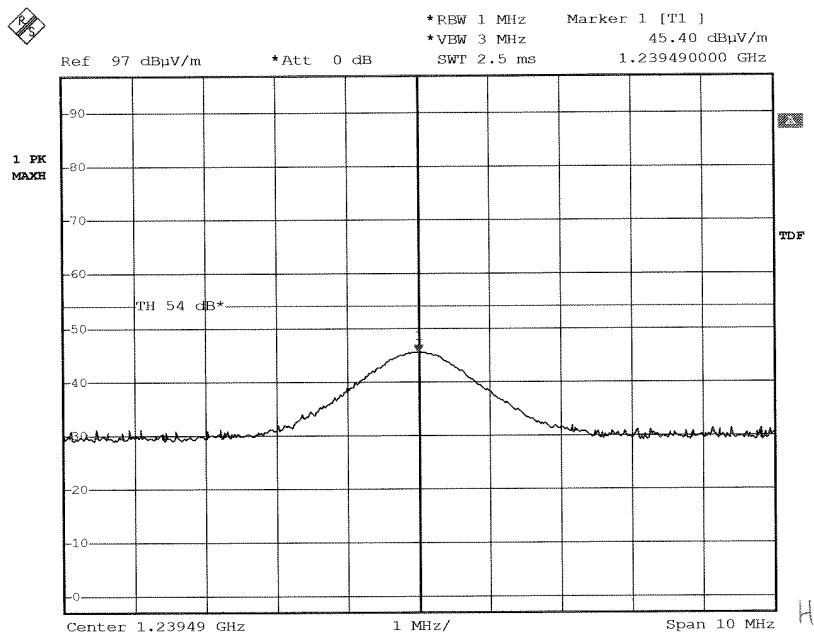
2480MHz

FCC



Date: 21.FEB.2005 22:46:29

1EA
 BTH-708
 050124005
 2480 MHz
 FCC



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

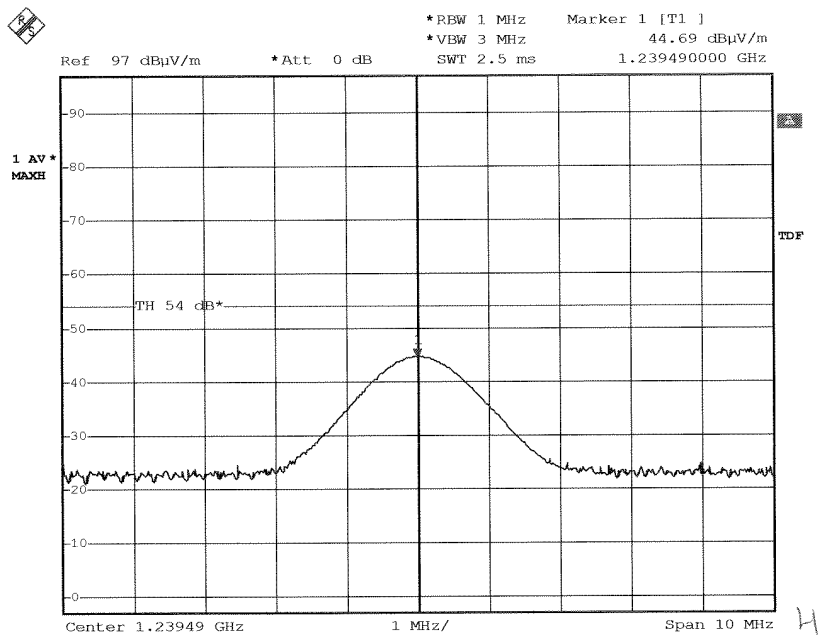
LEA

BTH-708

050124005

2480 MHz

FCC.



Date: 21.FEB.2005 22:42:35

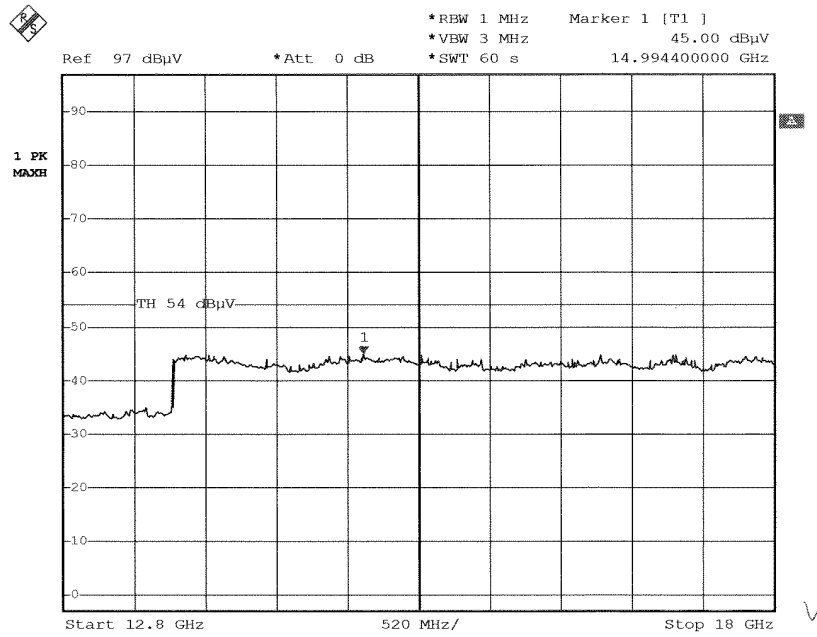
IEA

BTH-708

050124005

2480MHz

FCC



Date: 21.FEB.2005 22:52:49

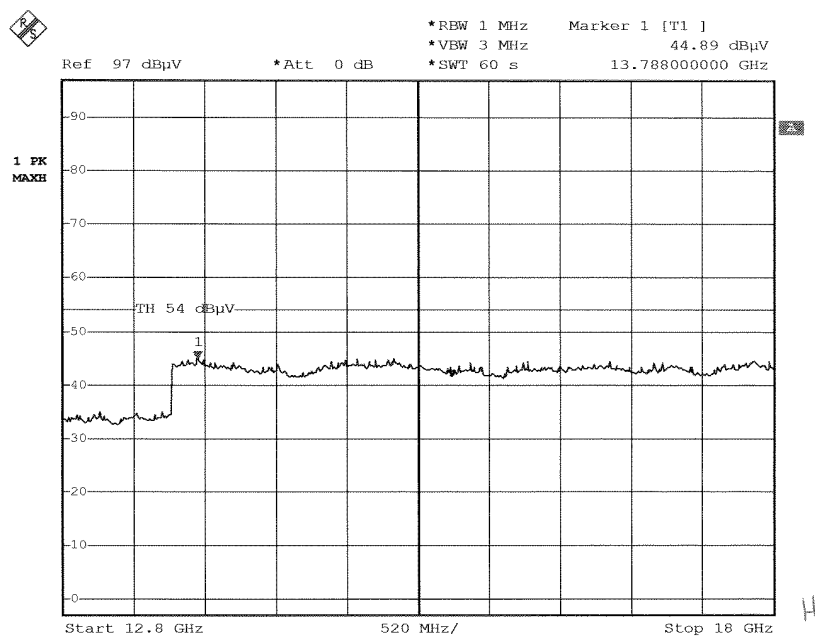
IEA

BTH-708

050124005

2480MHz

FCC.



Date: 21.FEB.2005 22:49:58

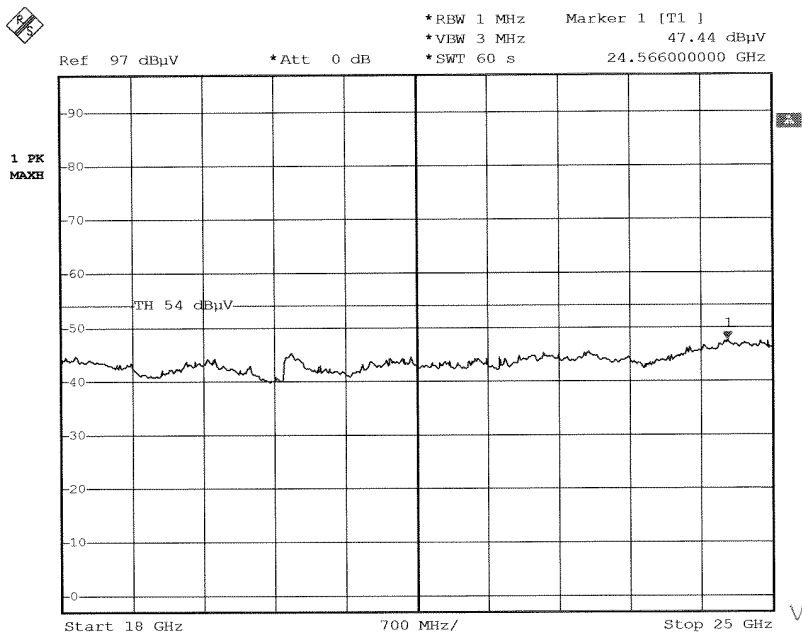
IEA

BTH-706

050124005

2480 MHz

FCC.



Date: 21.FEB.2005 23:15:01

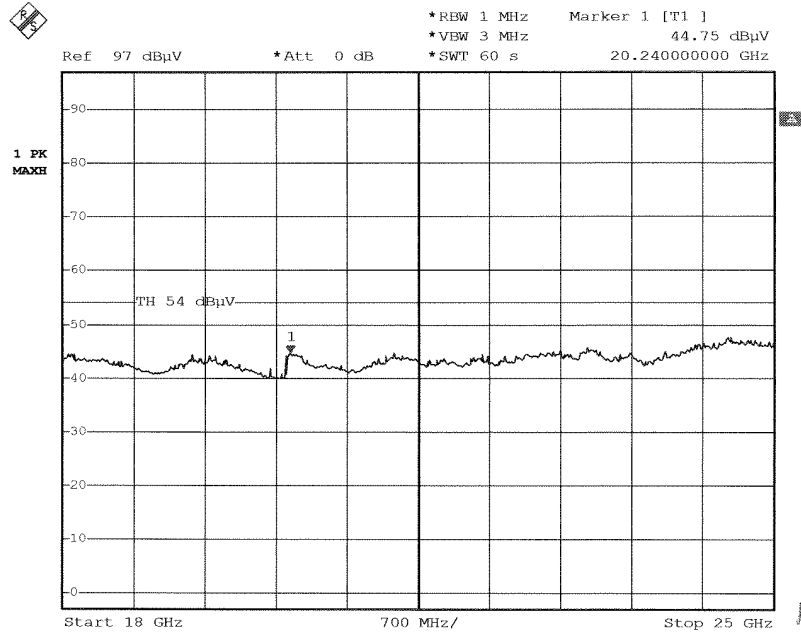
IEA

BIH-709

050124005

2480MHz

FCC



Date: 21.FEB.2005 23:20:53

IEA

15TH-709

050124009

2400MHz

FCC