

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

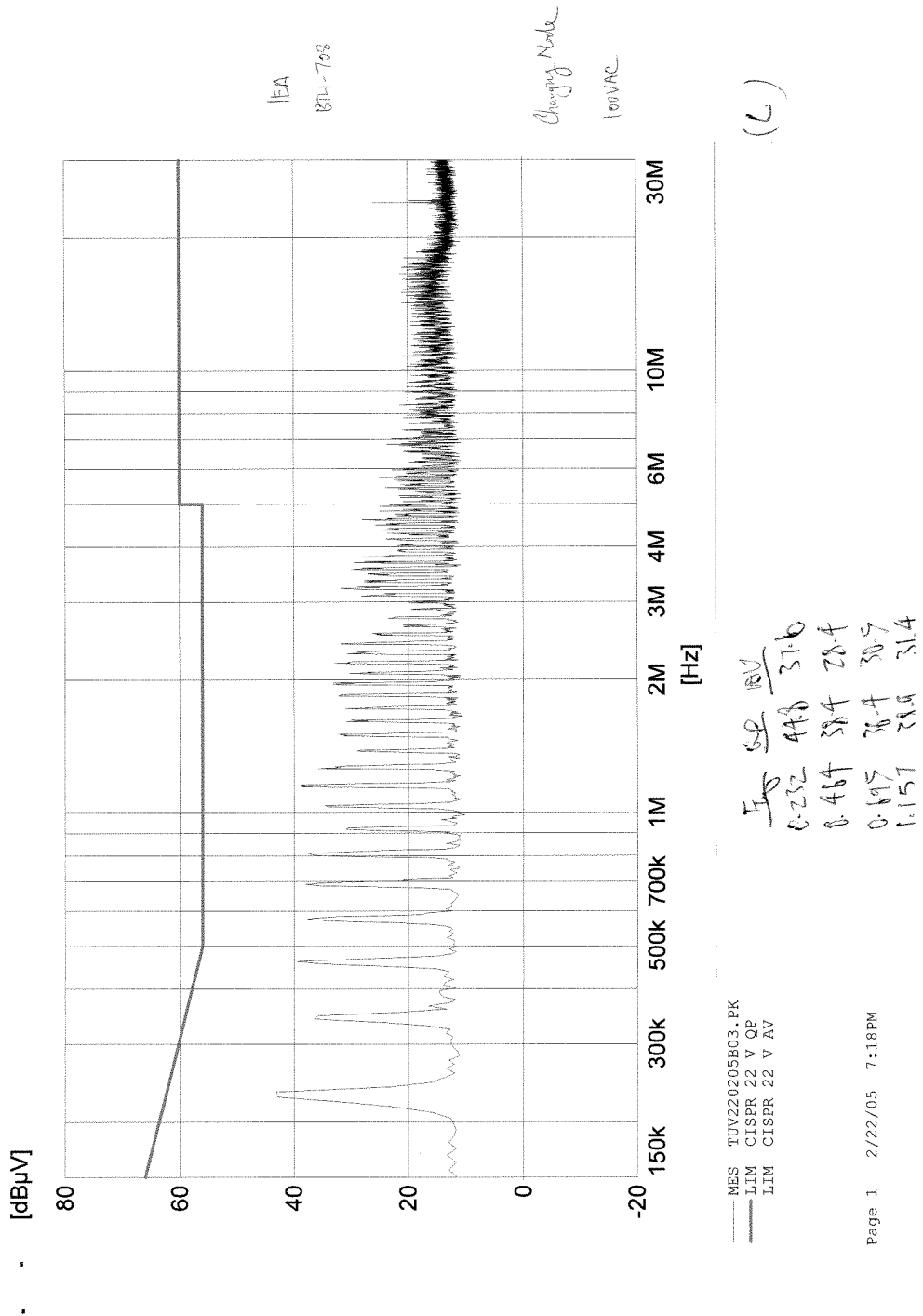
Op. mode: Charging

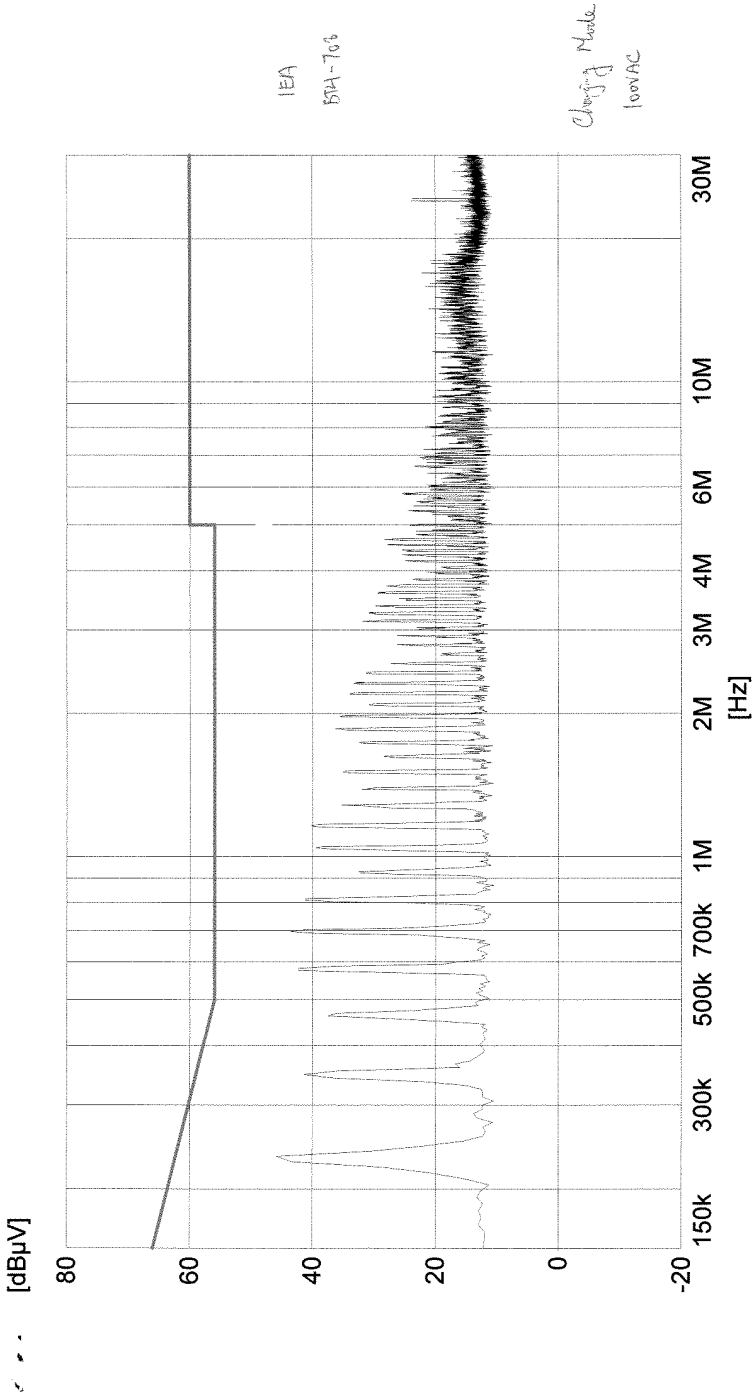
Live measurement

Frequency (MHz)	QP reading (dB μ V)	Av reading (dB μ V)	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 (dB μ V)	Av reading (dB μ V)	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

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

Reference frequency (MHz)

2441.000

Channel Separation (MHz)

0.996

**DELTA MARKER 3**

996 kHz

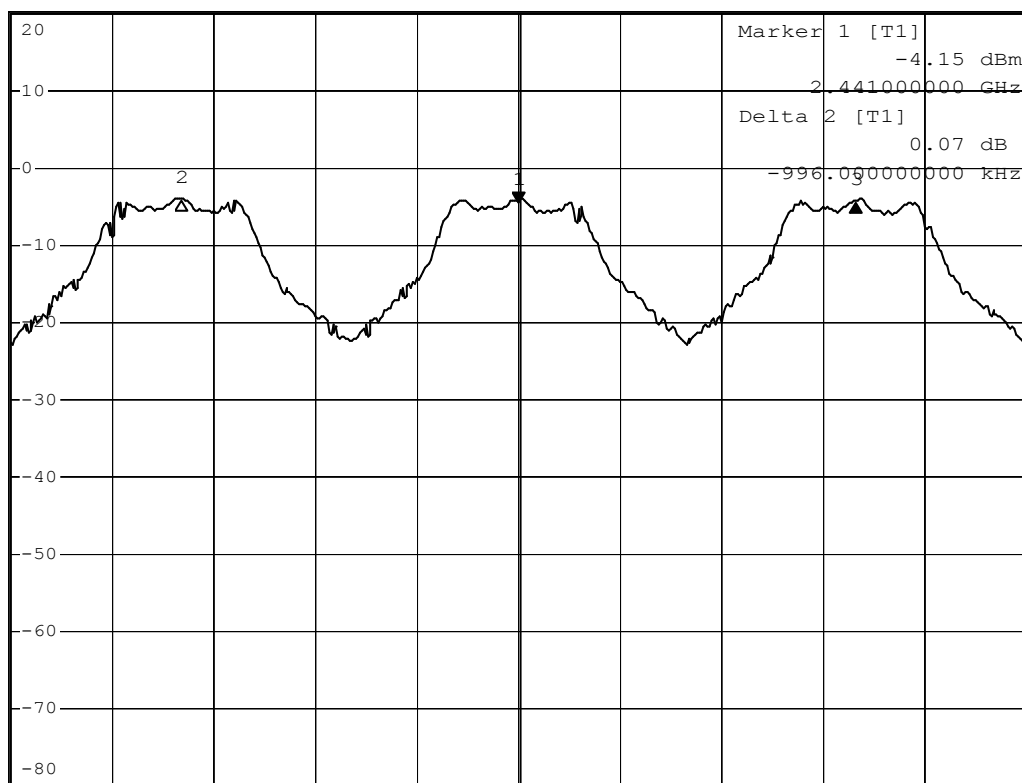
Ref 20 dBm

* Att 30 dB

RBW 100 kHz Delta 3 [T1]

VBW 300 kHz -0.05 dB

SWT 2.5 ms 996.000000000 kHz

1 PK
MAXH

Center 2.441 GHz

300 kHz/

Span 3 MHz

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

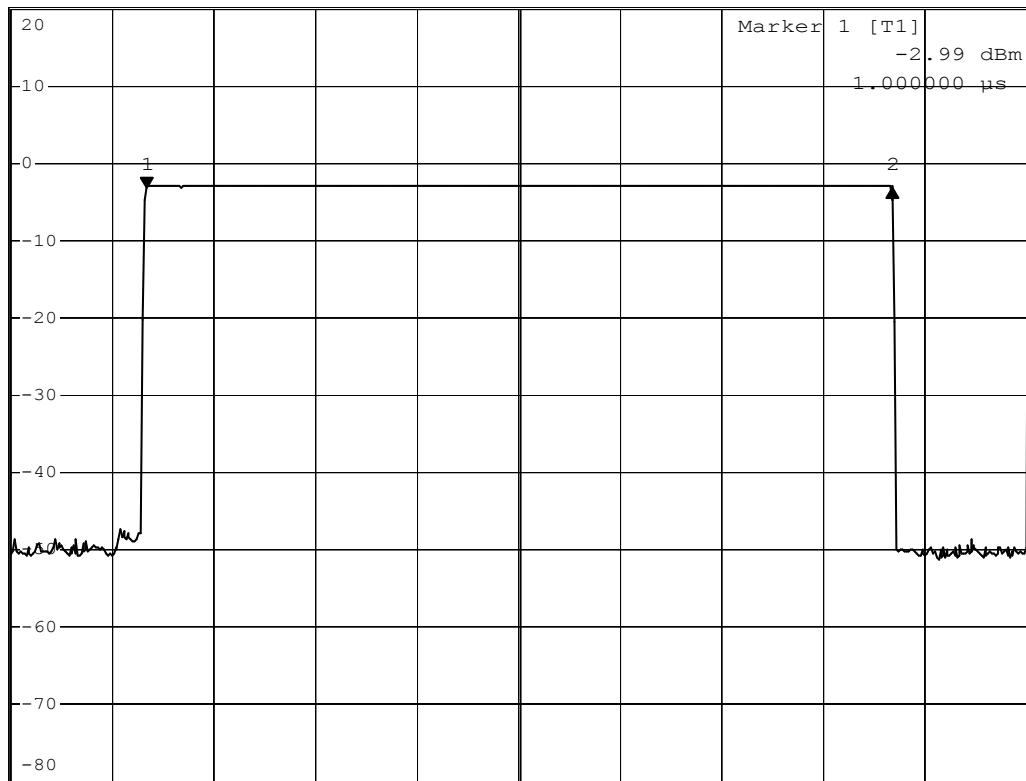
Delta 2 [T1]

*VBW 3 MHz

0.07 dB

SWT 4 ms

2.936000 ms

 1 PK
 MAXH


Center 2.441 GHz

400 μs/

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



SWEEP TIME

31.6 s

RBW 1 MHz

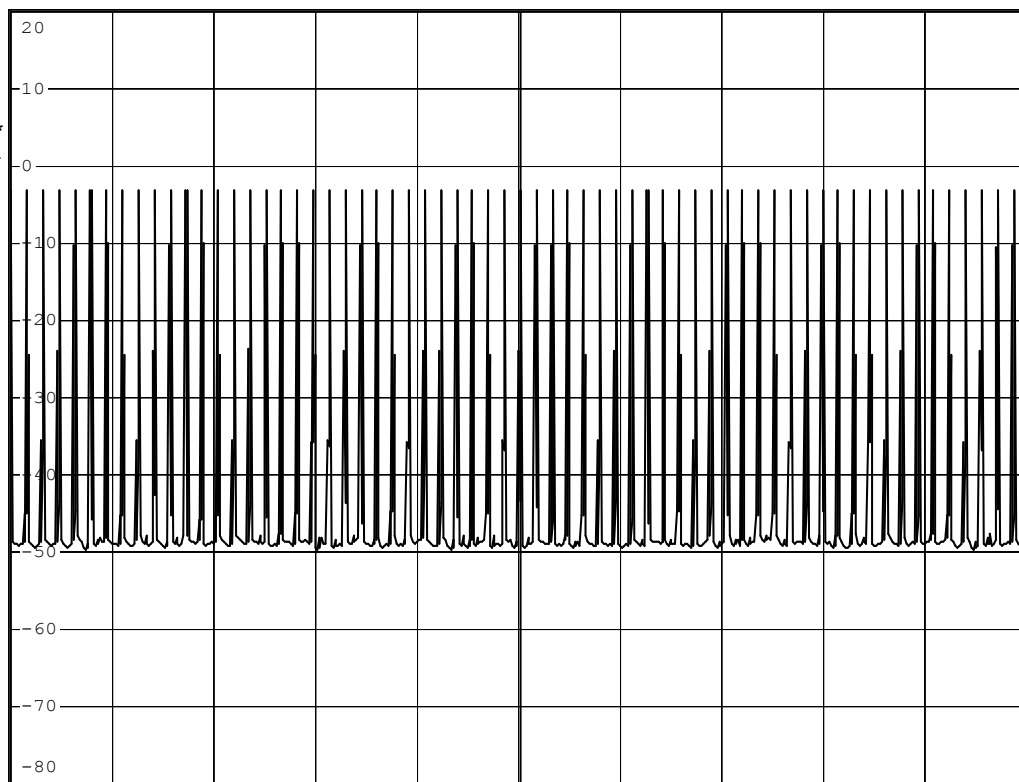
VBW 3 MHz

SWT 31.6 s

Ref 20 dBm

*Att 30 dB

1 PK *
CLRWR



A
SGL

Center 2.441 GHz

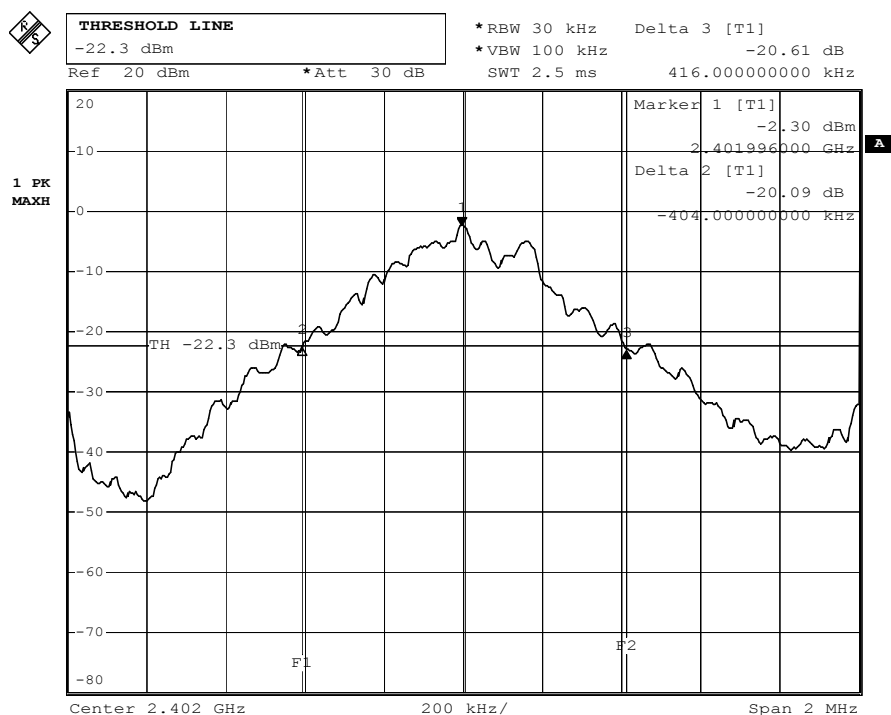
3.16 s/

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

20dB Bandwidth

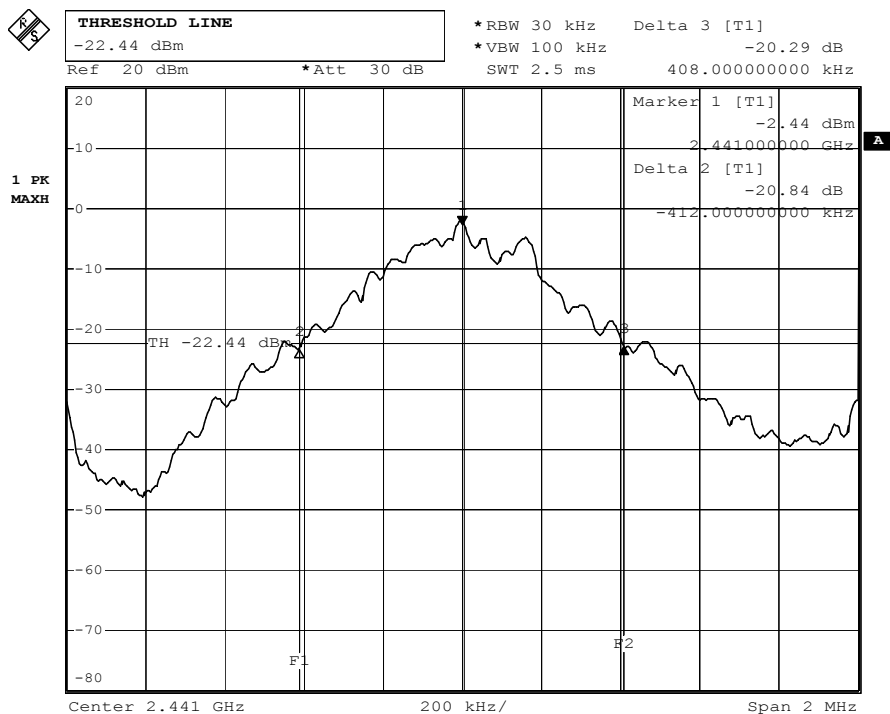
Date: 21 Feb 2005
 EUT: BTH-708
 Company: IEA Electro-Acoustic Co., Ltd.
 Humidity: 60%
 Temperature: 23°C
 Voltage supply: 3.7V from rechargeable battery
 Test by: Sharon Li
 Op. mode: TX mode, DH5 with PRBS9 payload

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



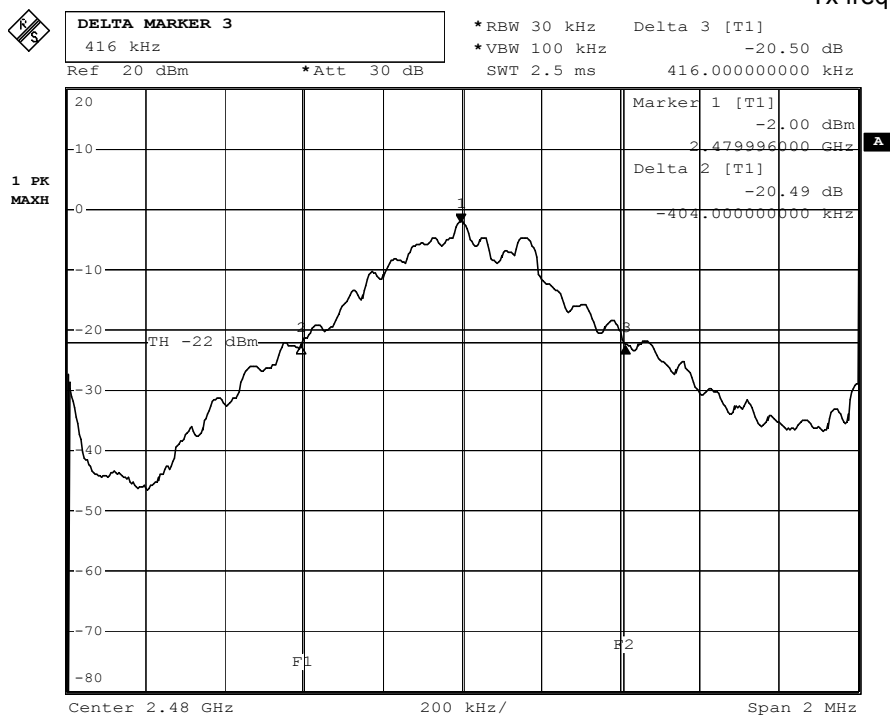
Date: 21.FEB.2005 14:33:44

Tx frequency: 2402MHz



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

Tx frequency: 2441MHz



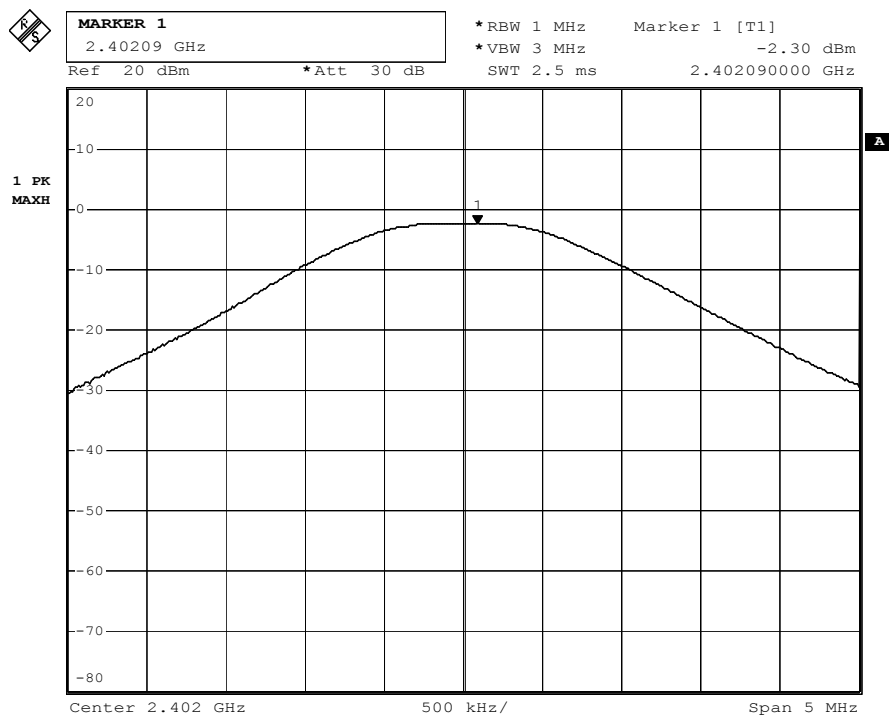
Date: 21.FEB.2005 14:45:20

Tx frequency: 2480MHz

Peak Output Power

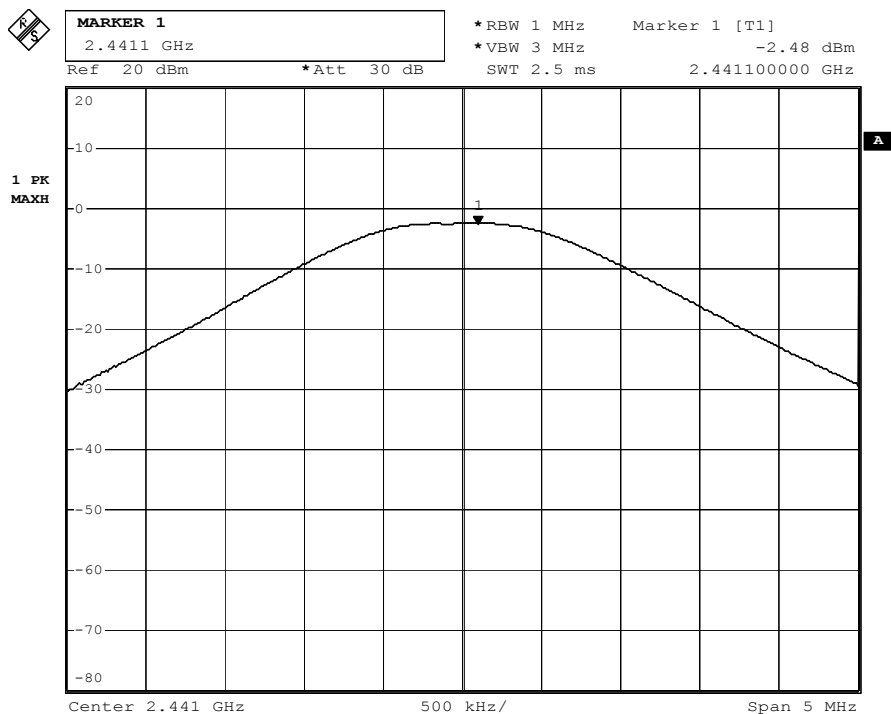
Date: 21 Feb 2005
 EUT: BTH-708
 Company: IEA Electro-Acoustic Co., Ltd.
 Humidity: 60%
 Temperature: 23°C
 Voltage supply: 3.7V from rechargeable battery
 Test by: Sharon Li
 Op. mode: TX mode, DH1 with PRBS9 payload

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



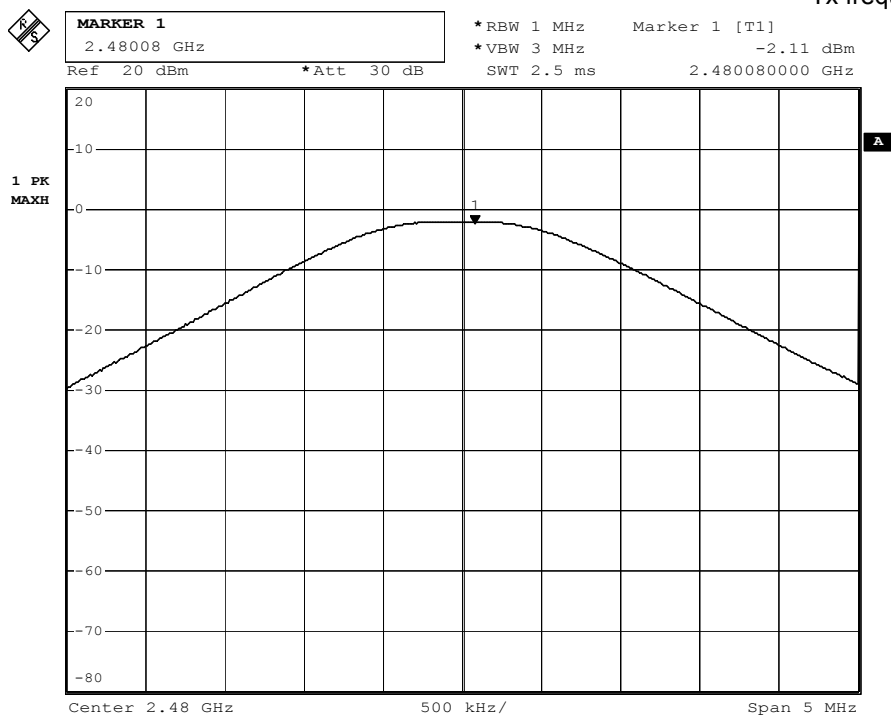
Date: 21.FEB.2005 14:47:41

Tx frequency: 2402MHz



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

Tx frequency: 2441MHz



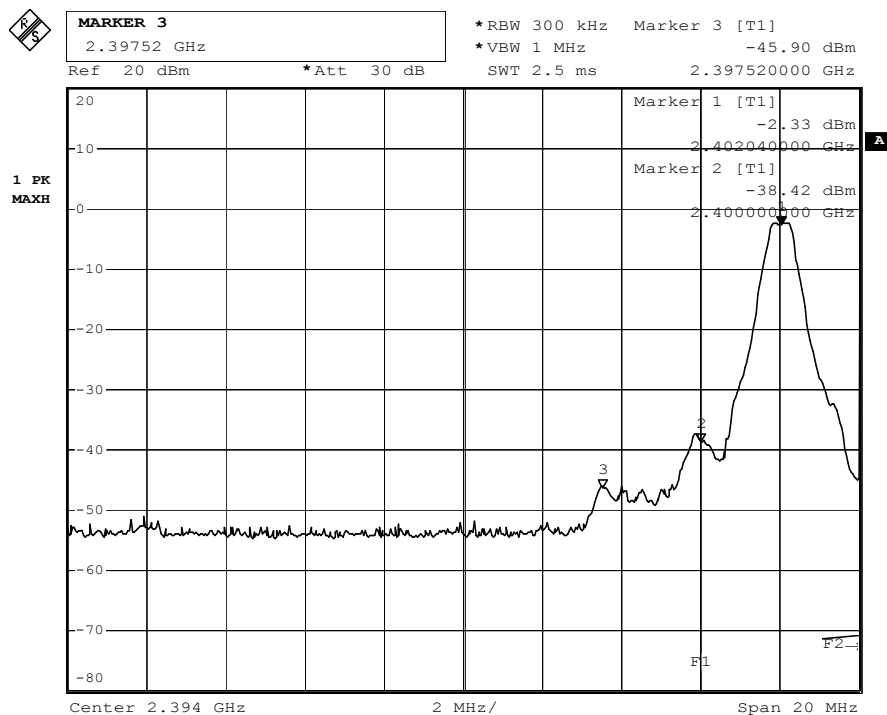
Date: 21.FEB.2005 14:51:20

Tx frequency: 2480MHz

Band Edge Compliance

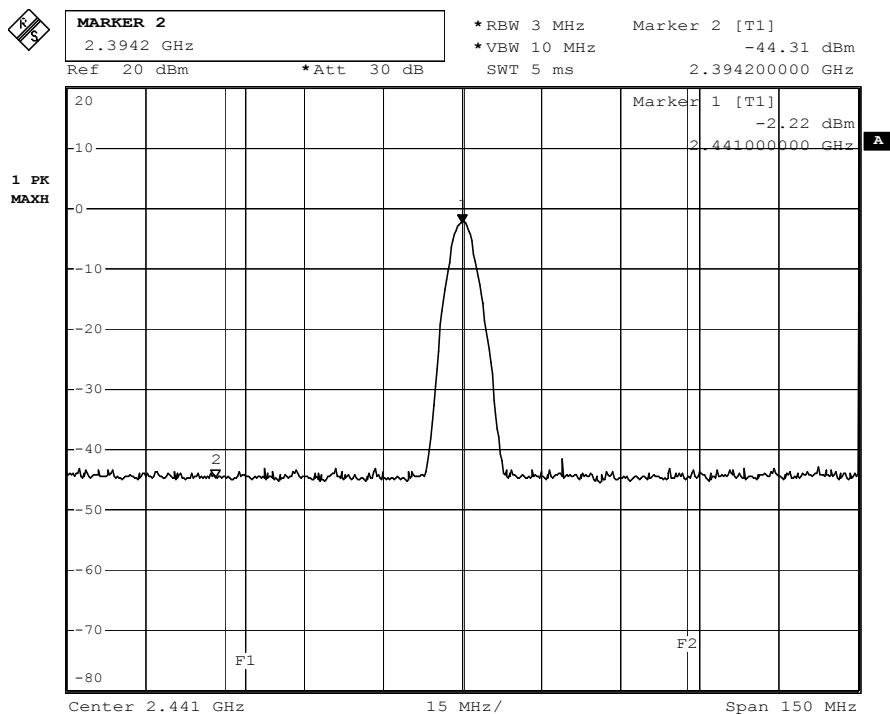
Date: 21 Feb 2005
 EUT: BTH-708
 Company: IEA Electro-Acoustic Co., Ltd.
 Humidity: 60%
 Temperature: 23°C
 Voltage supply: 3.7V from rechargeable battery
 Test by: Sharon Li
 Op. mode: TX mode, DH1 with PRBS9 payload

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



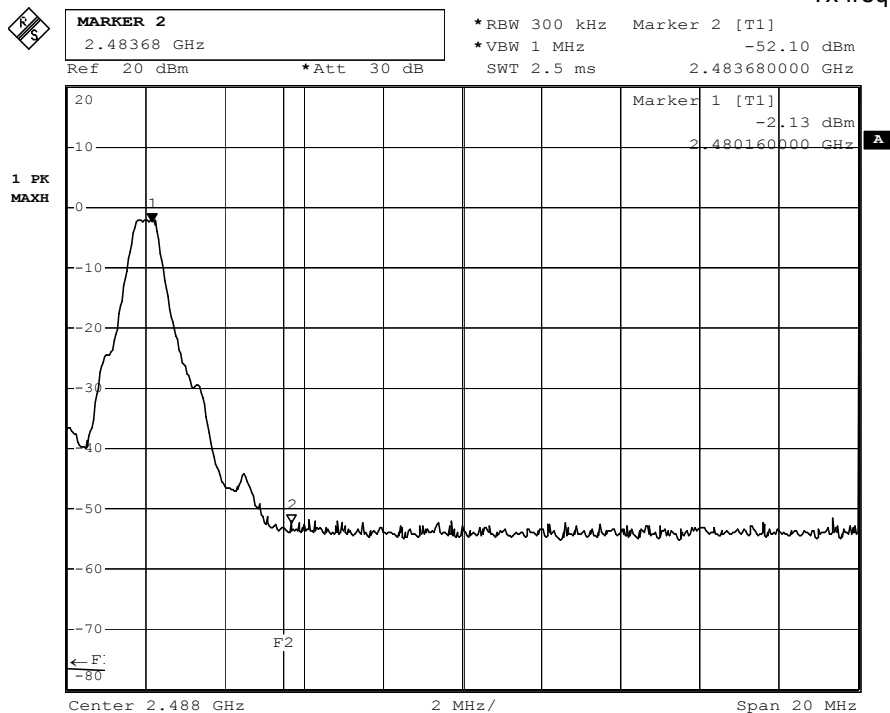
Date: 21.FEB.2005 14:55:26

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

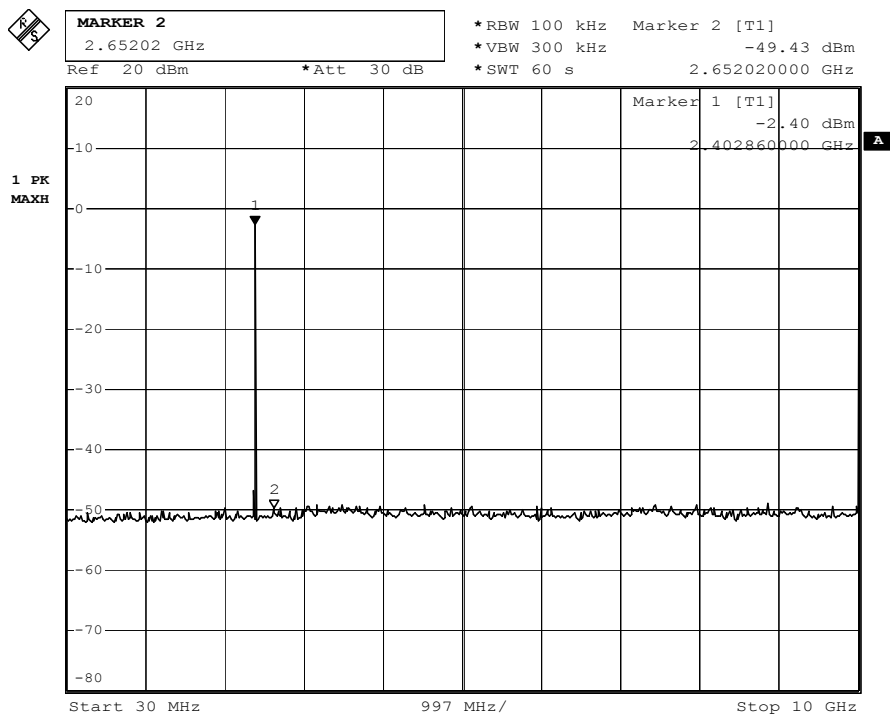
Spurious Frequency (MHz)	Power level (dBm)	Reference value (dBm)	Delta to reference level (dB)	Results
No peak found	-	-	-	Pass

Tx frequency : 2441MHz

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

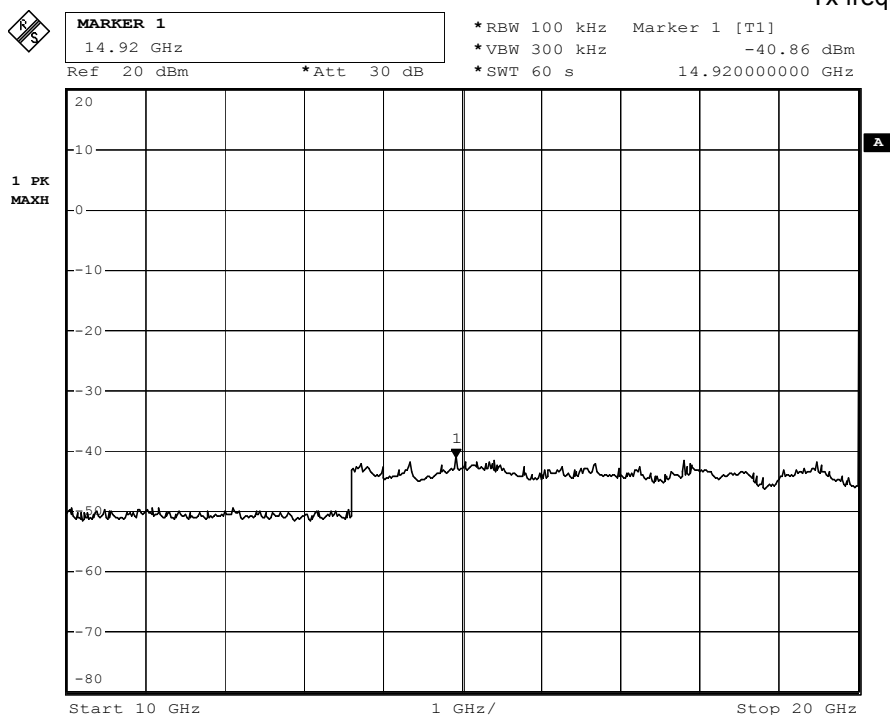
Tx frequency : 2480MHz

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



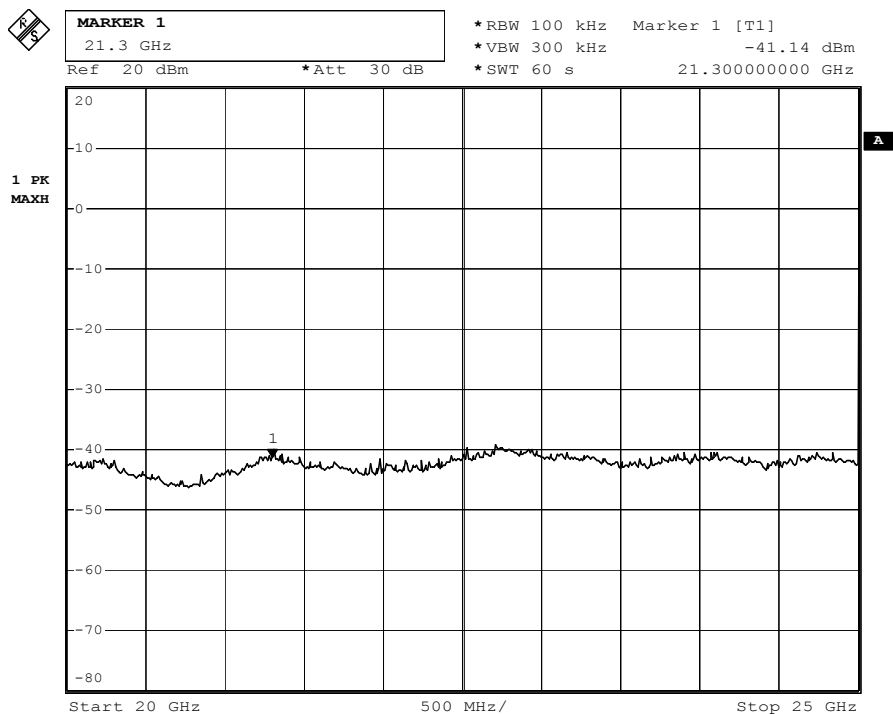
Date: 21.FEB.2005 15:07:37

Tx frequency: 2402MHz



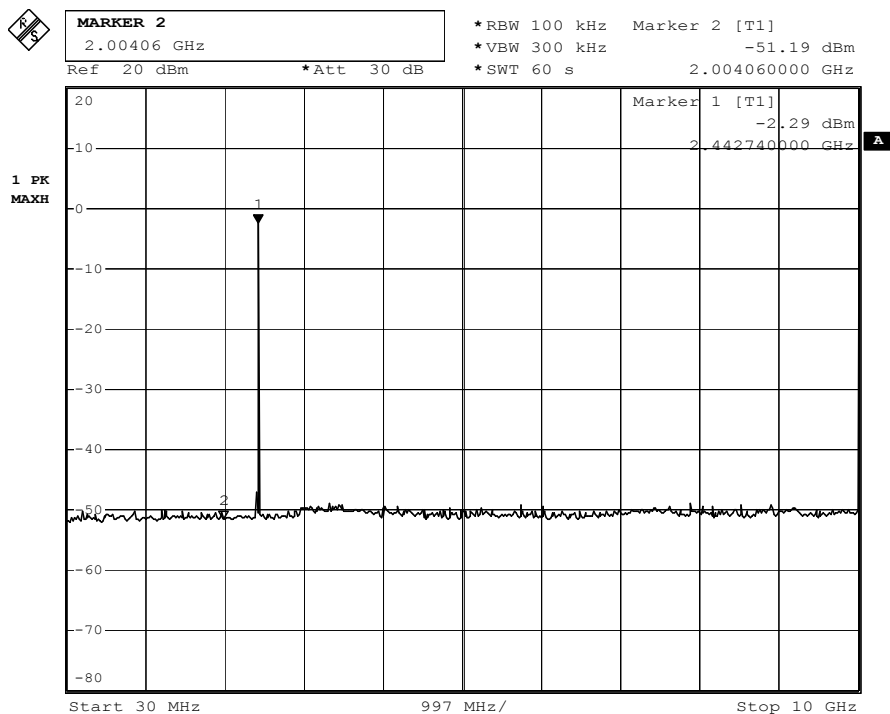
Date: 21.FEB.2005 15:11:12

Tx frequency: 2402MHz



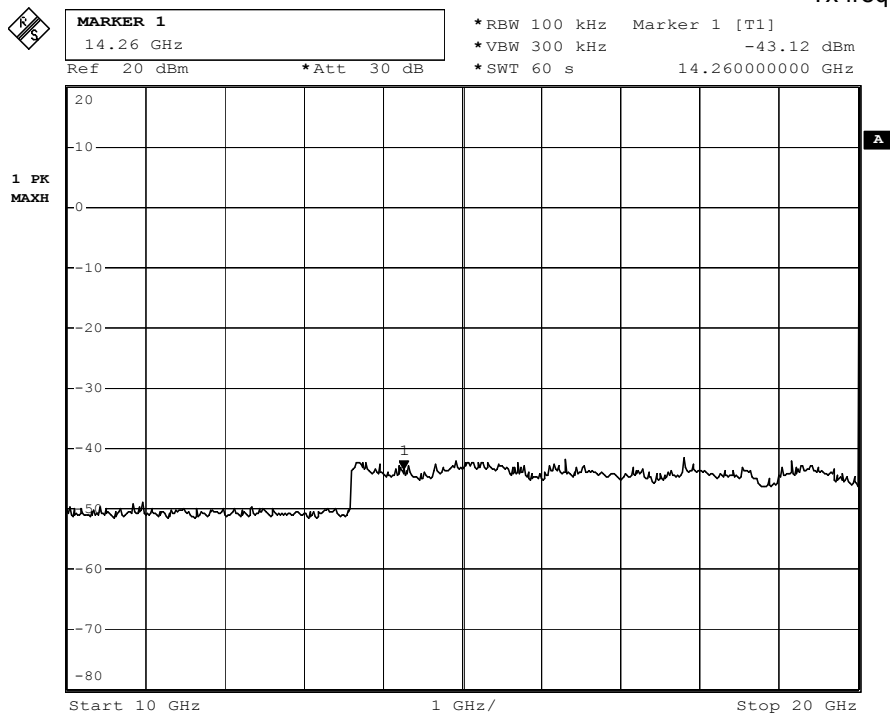
Date: 21.FEB.2005 15:18:28

Tx frequency: 2402MHz



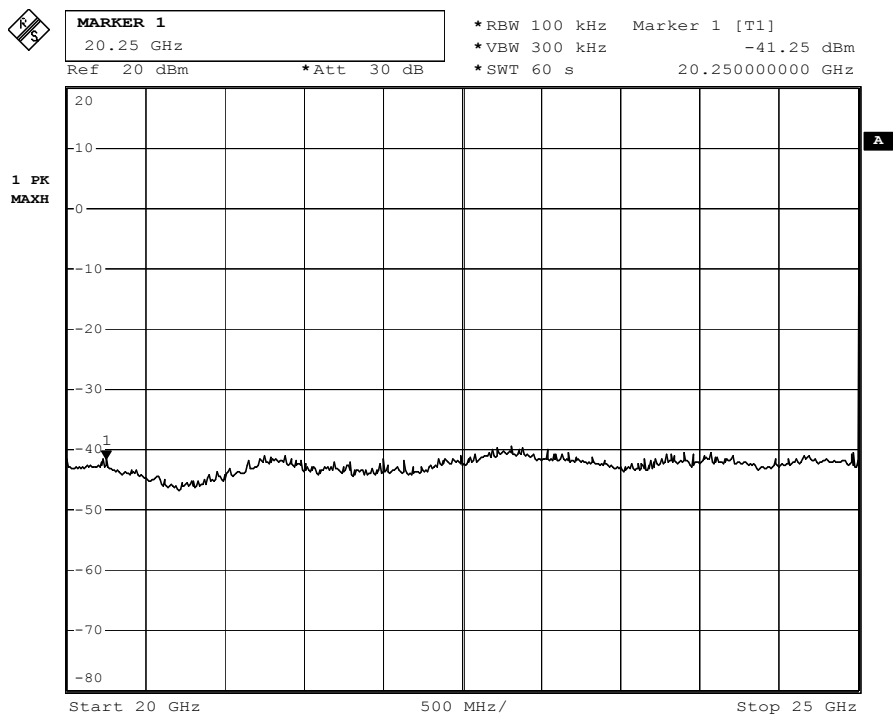
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Tx frequency: 2441MHz



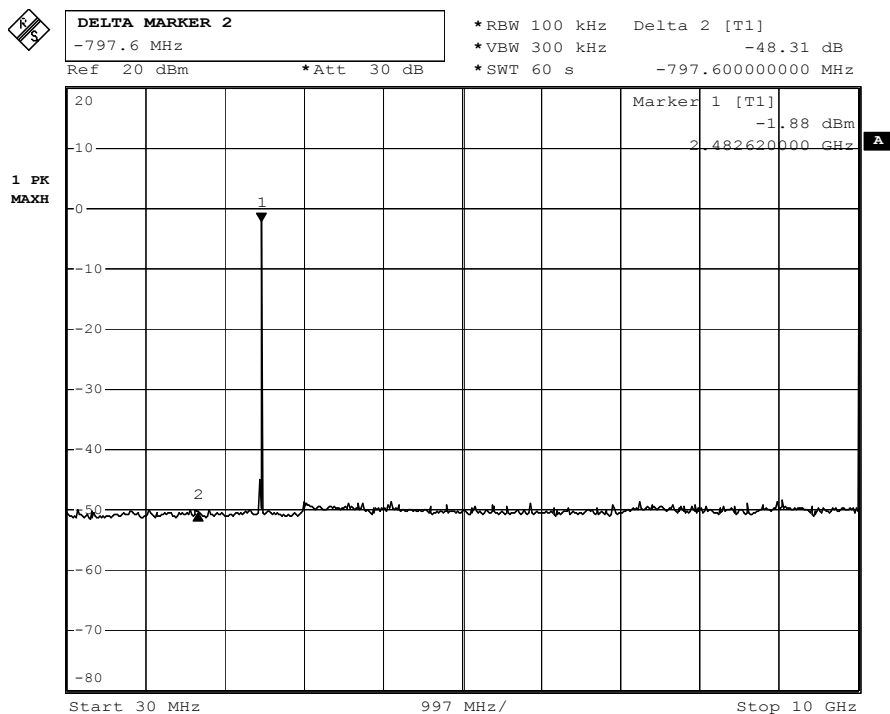
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Tx frequency: 2441MHz



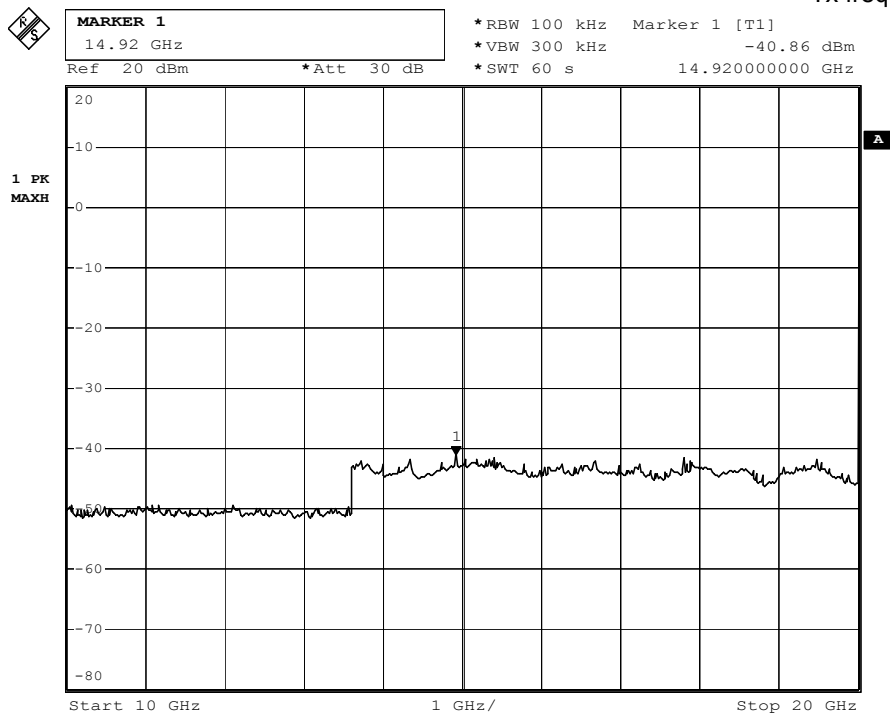
Date: 21.FEB.2005 15:32:01

Tx frequency: 2441MHz



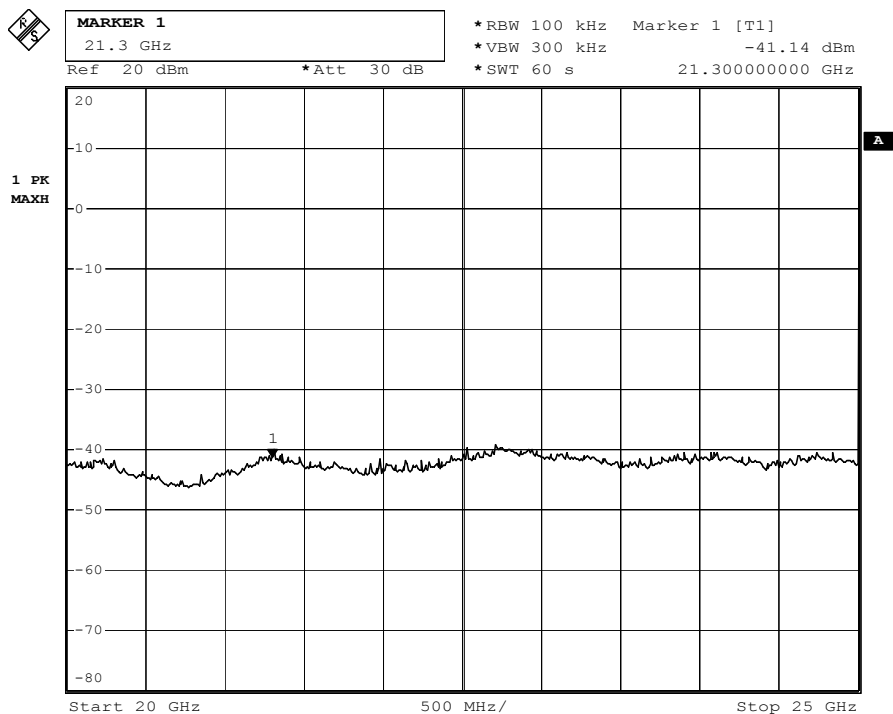
Date: 21.FEB.2005 15:50:14

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

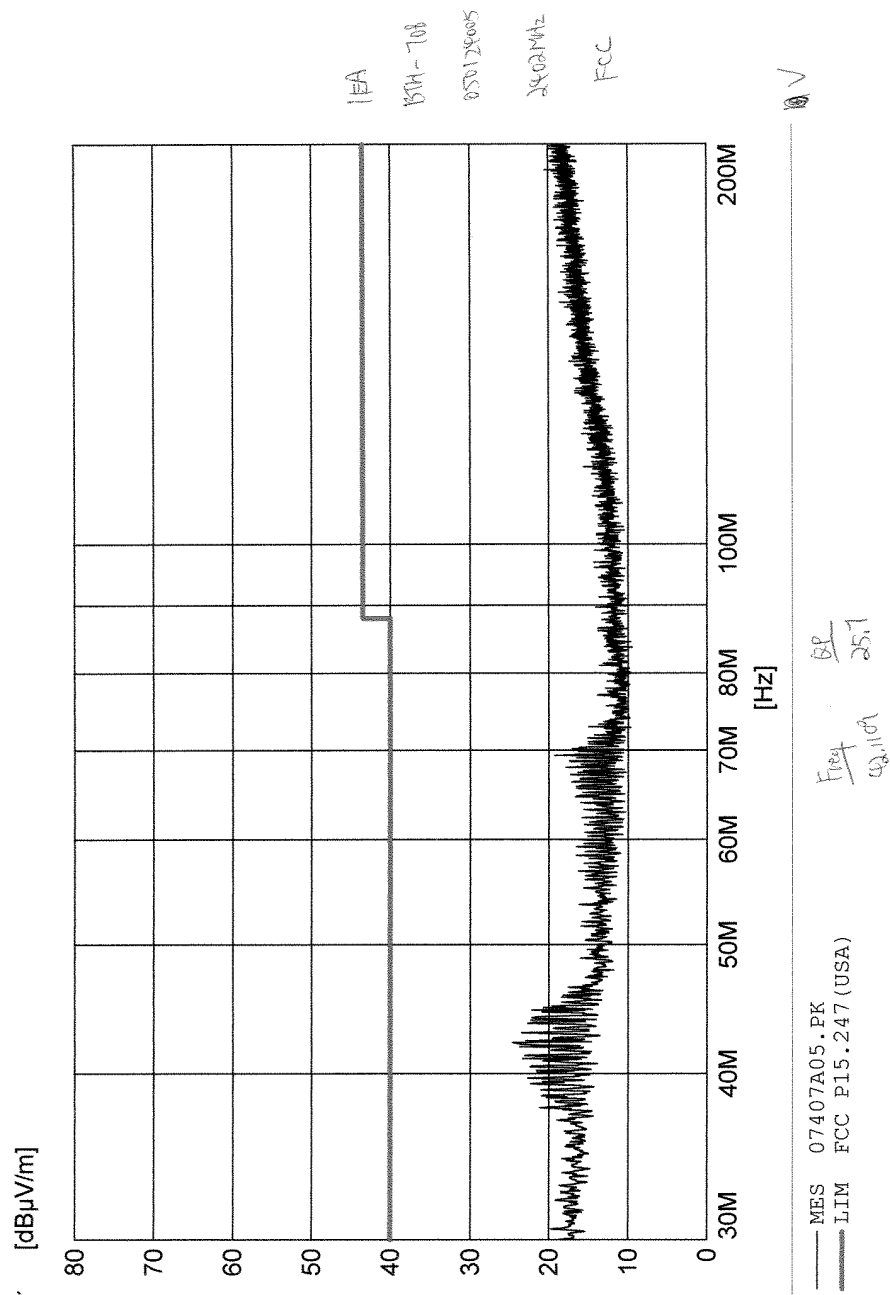
Test by: Sharon Li

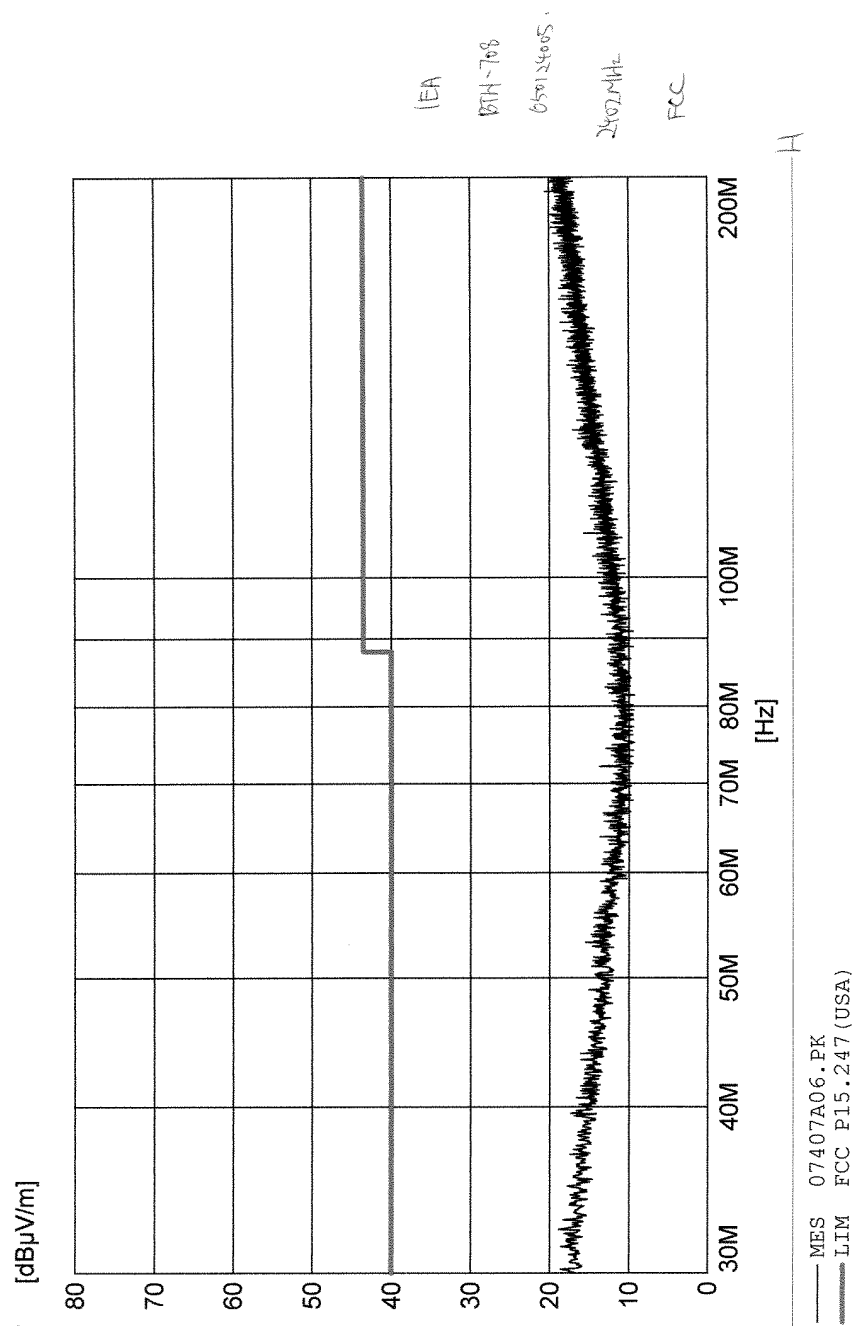
Op. mode: TX mode, DH1 with PRBS9 payload

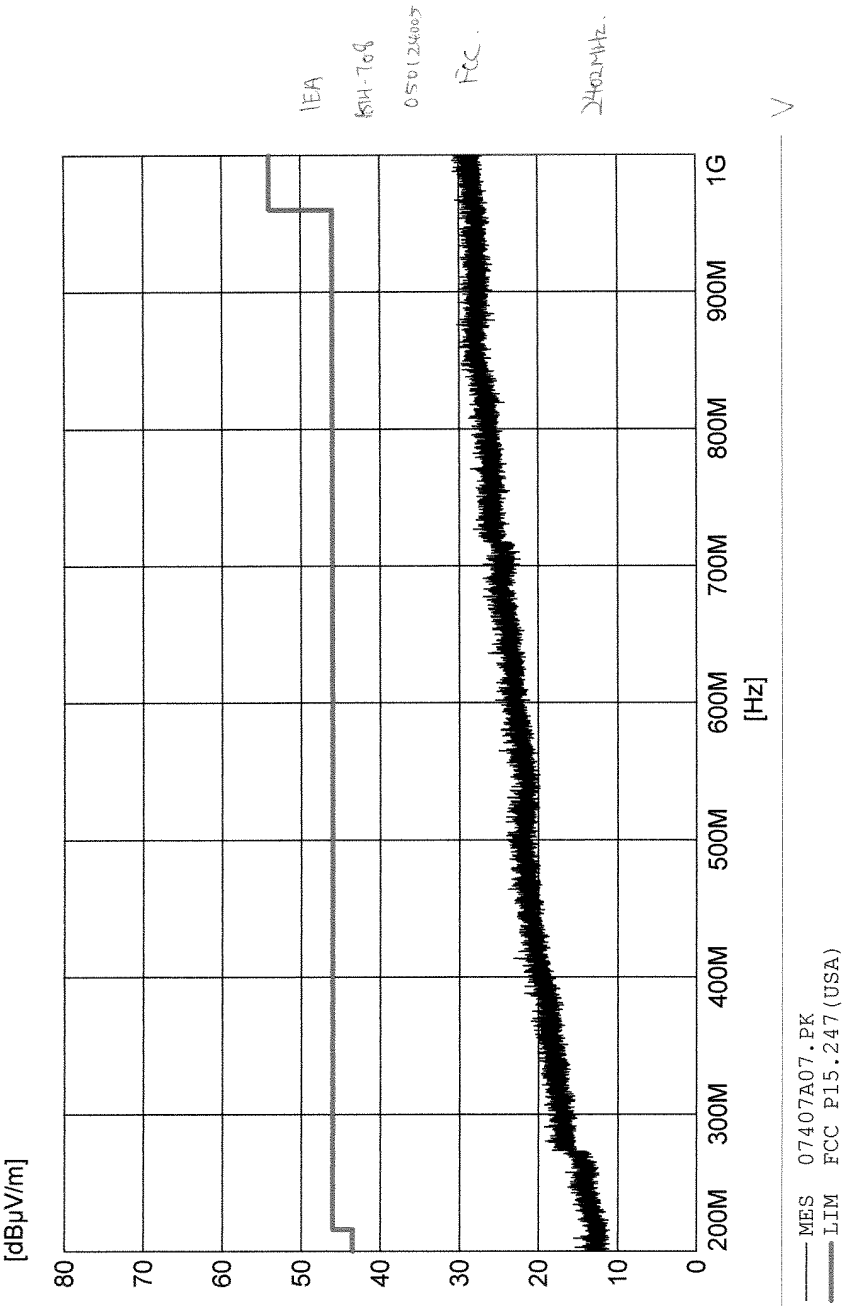
Tx frequency (MHz)	Polarization	Spurious Frequency (MHz)	Power Level (dBuV/m)	Detector (P/QP/A)
2402	V	42.111	25.70	QP
2402	V	1200.460	37.21	P
2402	V	1200.520	36.18	A
2402	H	1200.500	42.49	P
2402	H	1200.500	41.02	A

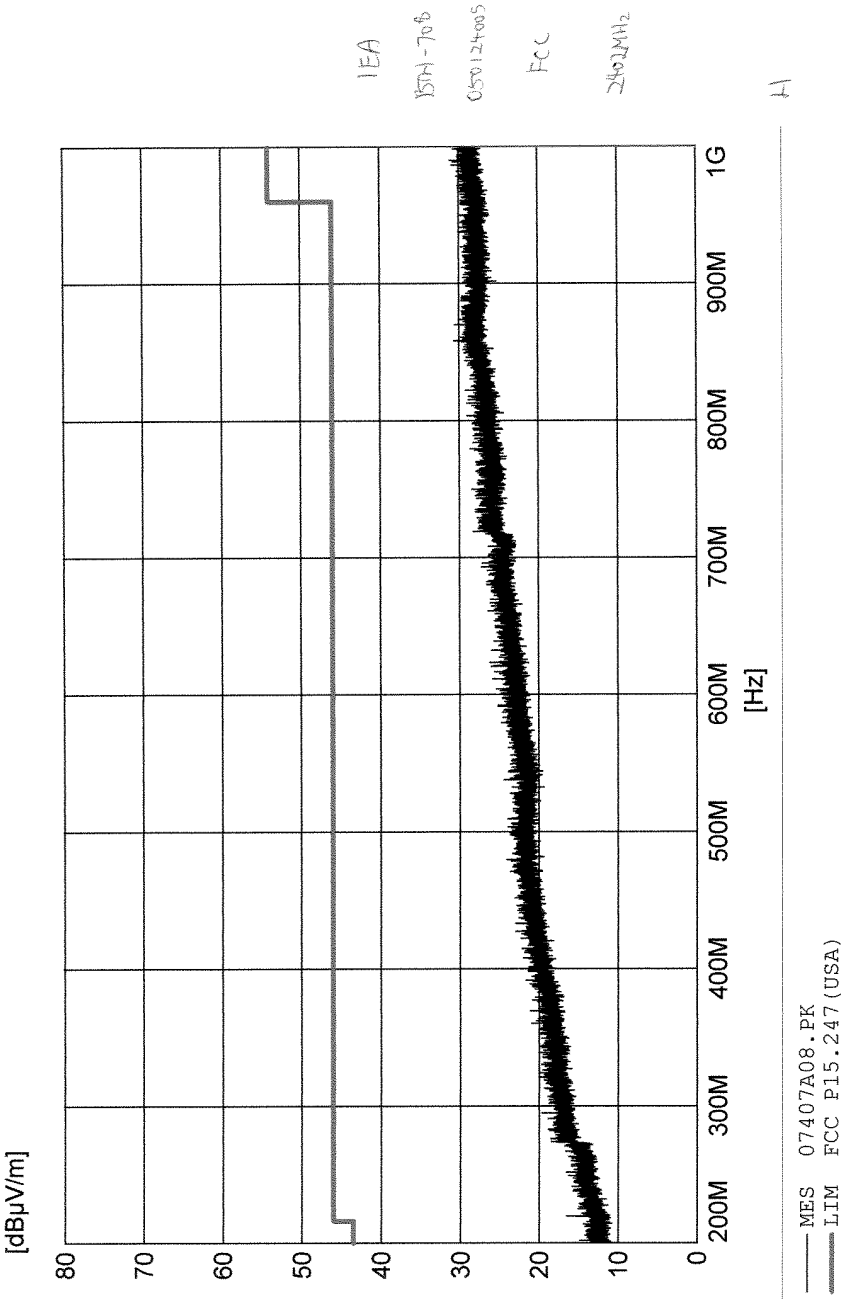
Tx frequency (MHz)	Polarization	Spurious Frequency (MHz)	Power Level (dBuV/m)	Detector (P/QP/A)
2441	V	42.560	23.60	QP
2441	V	1220.020	39.36	P
2441	V	1220.020	37.96	A
2441	H	1220.020	43.53	P
2441	H	1220.020	40.99	A

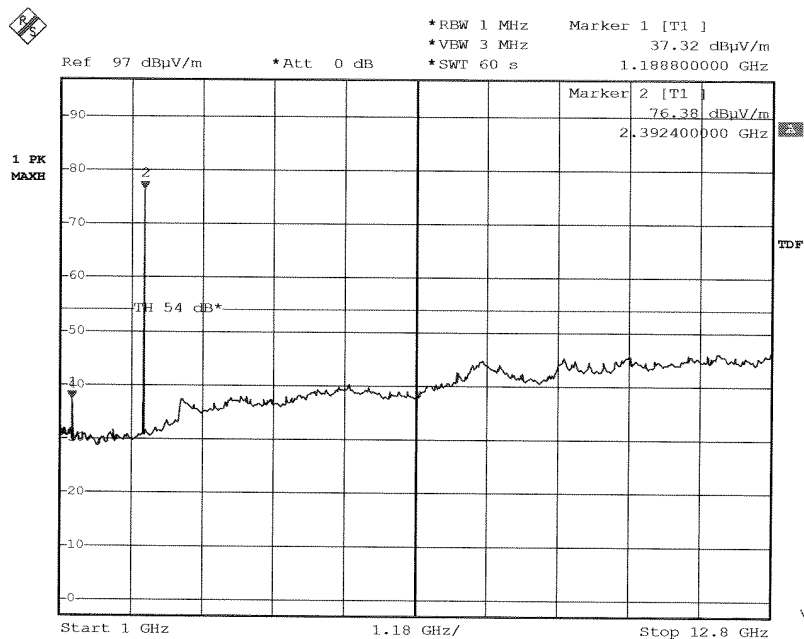
Tx frequency (MHz)	Polarization	Spurious Frequency (MHz)	Power Level (dBuV/m)	Detector (P/QP/A)
2480	V	39.314	20.40	QP
2480	V	1239.490	39.99	P
2480	V	1239.490	38.63	A
2480	H	1239.490	45.40	P
2480	H	1239.490	44.69	A







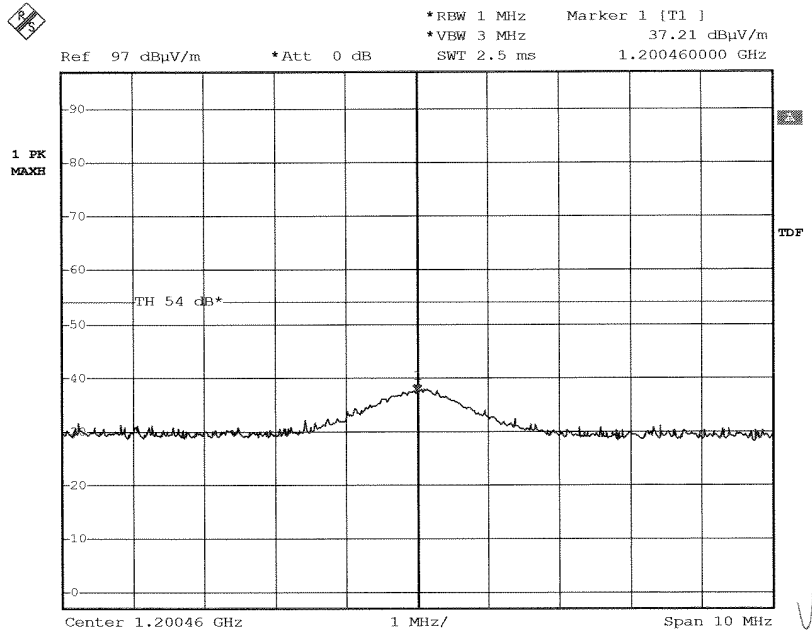




Date: 21.FEB.2005 21:45:11

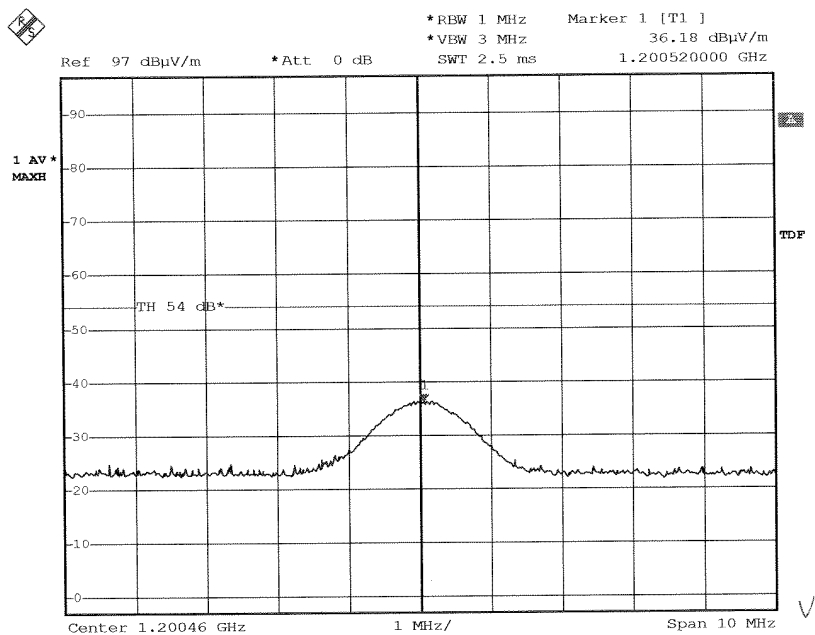
IEA
 BTH-708
 050124005
 2402MHz

FCC



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

IEA
 BTA-708
 050124005
 2402MHz
 FCC



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

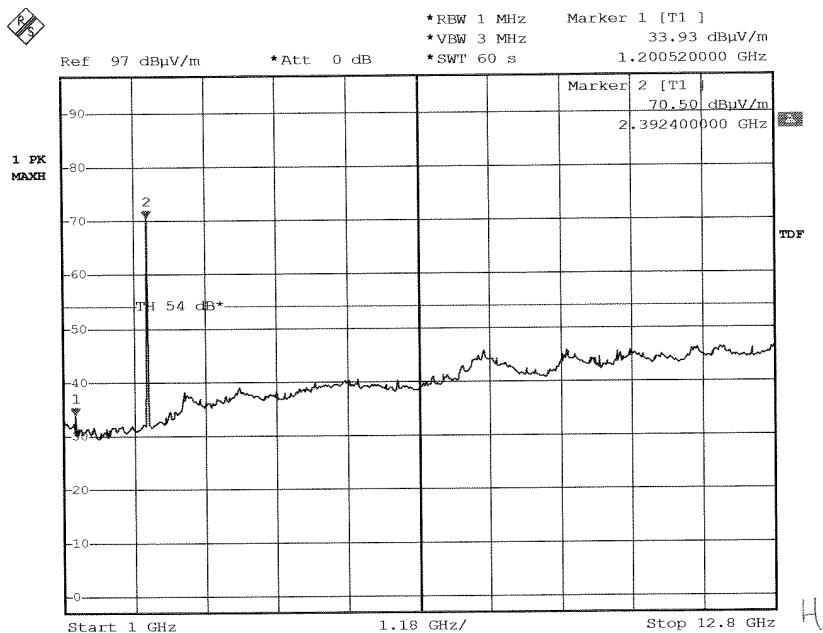
IEA

BTH-708

030124005

2402MHz

FCC.



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

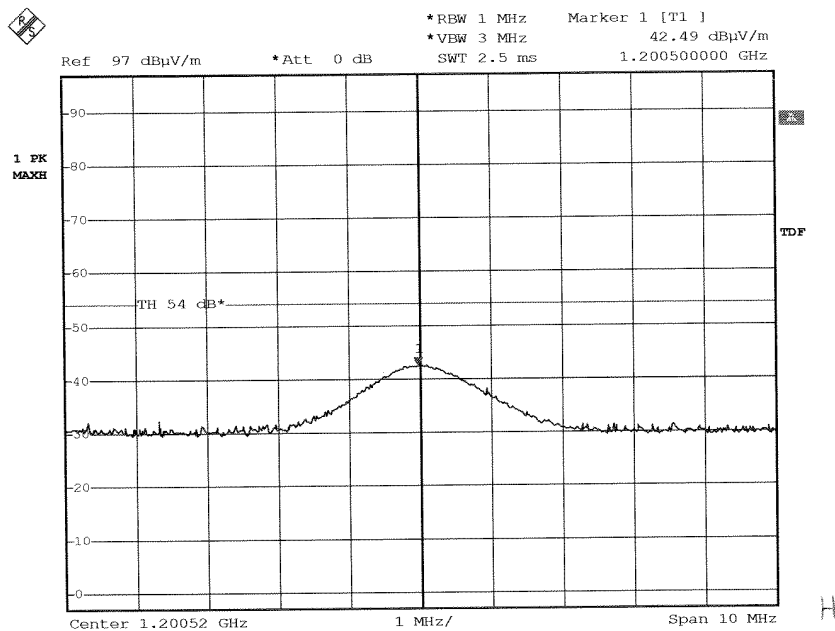
IEA

614-708

050124005

2402MHz

FCC



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

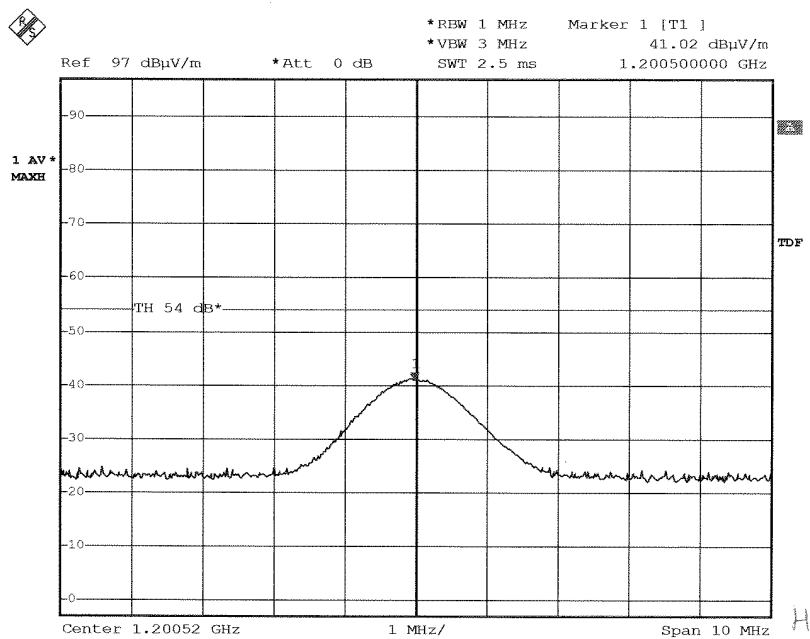
IEA

BTH-708

050124005

2402 MHz

FCC.



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

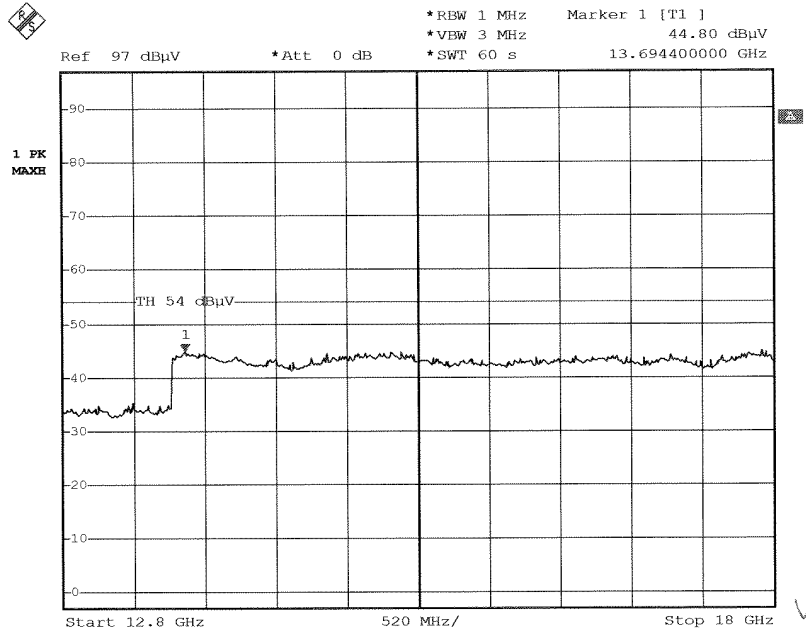
IEA

BTH-708

050124005

2402MHz

FCC



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

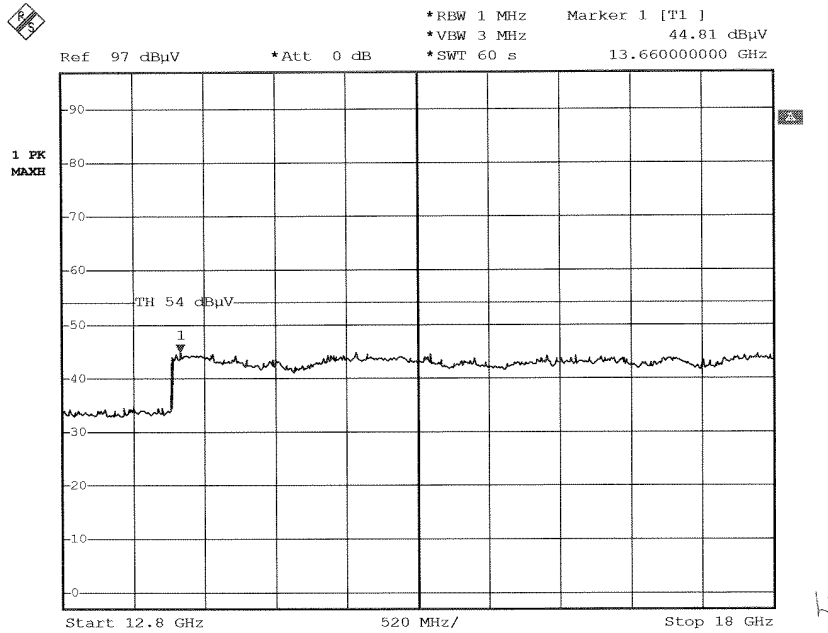
IEA

BTH-706

050124005

2402MHz.

FCC.



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

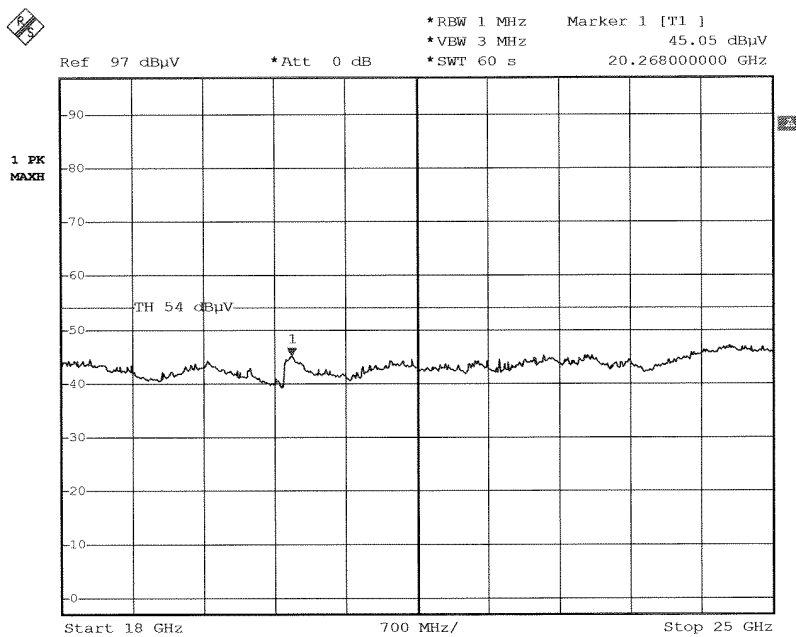
IEA

BTH-708

050124005

2402MHz

FCC



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

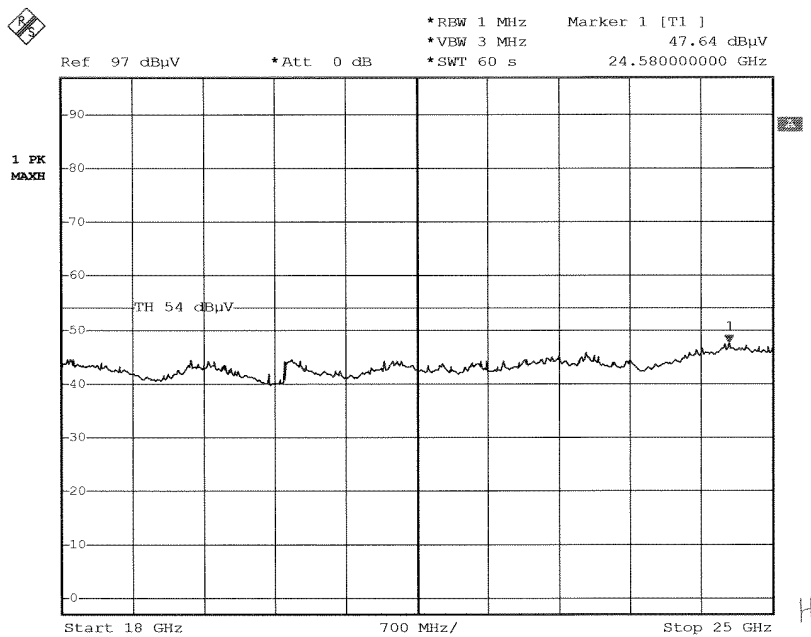
IEA

BTH-708

050124005

2402MHz

FCC.



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

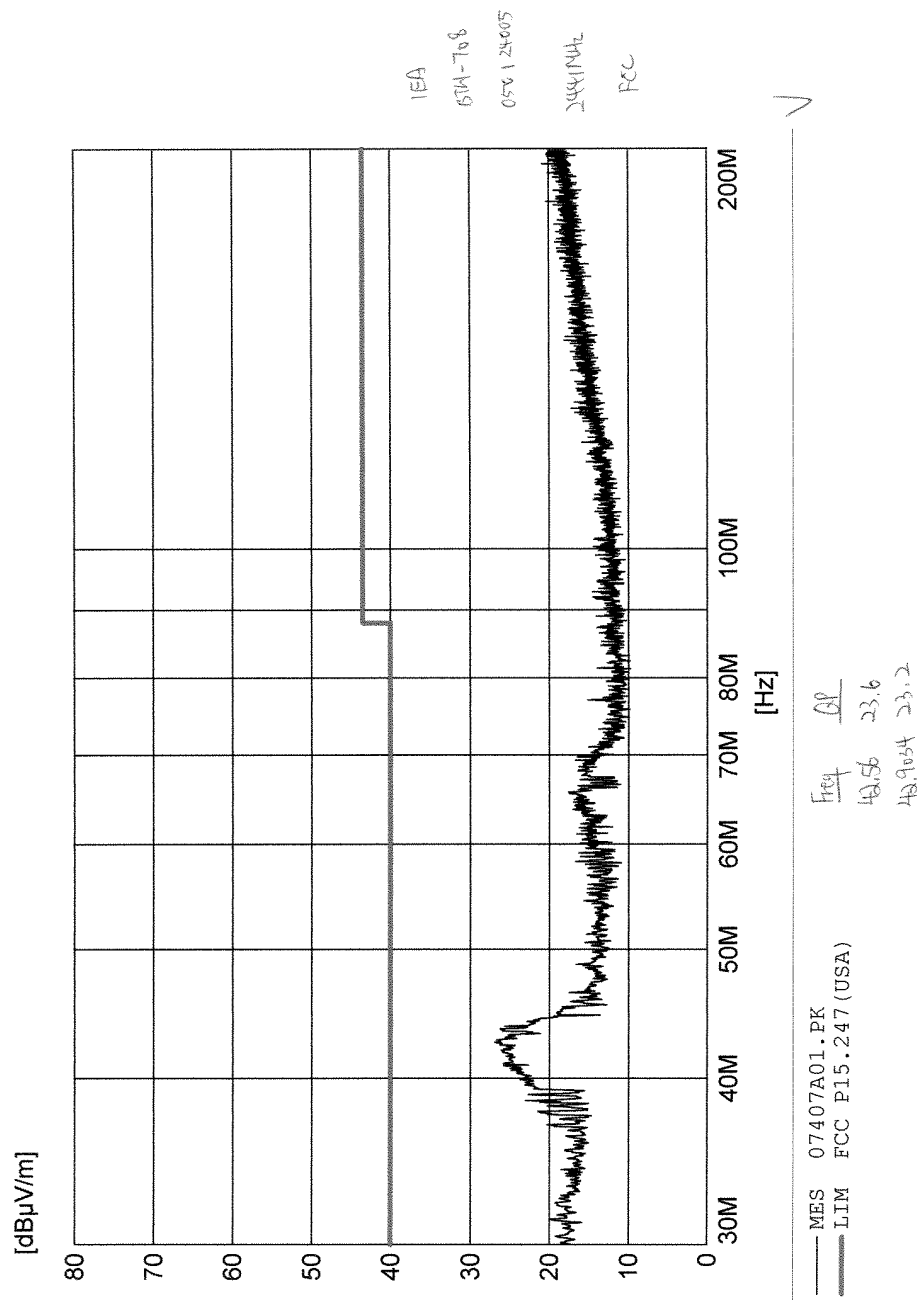
IEA

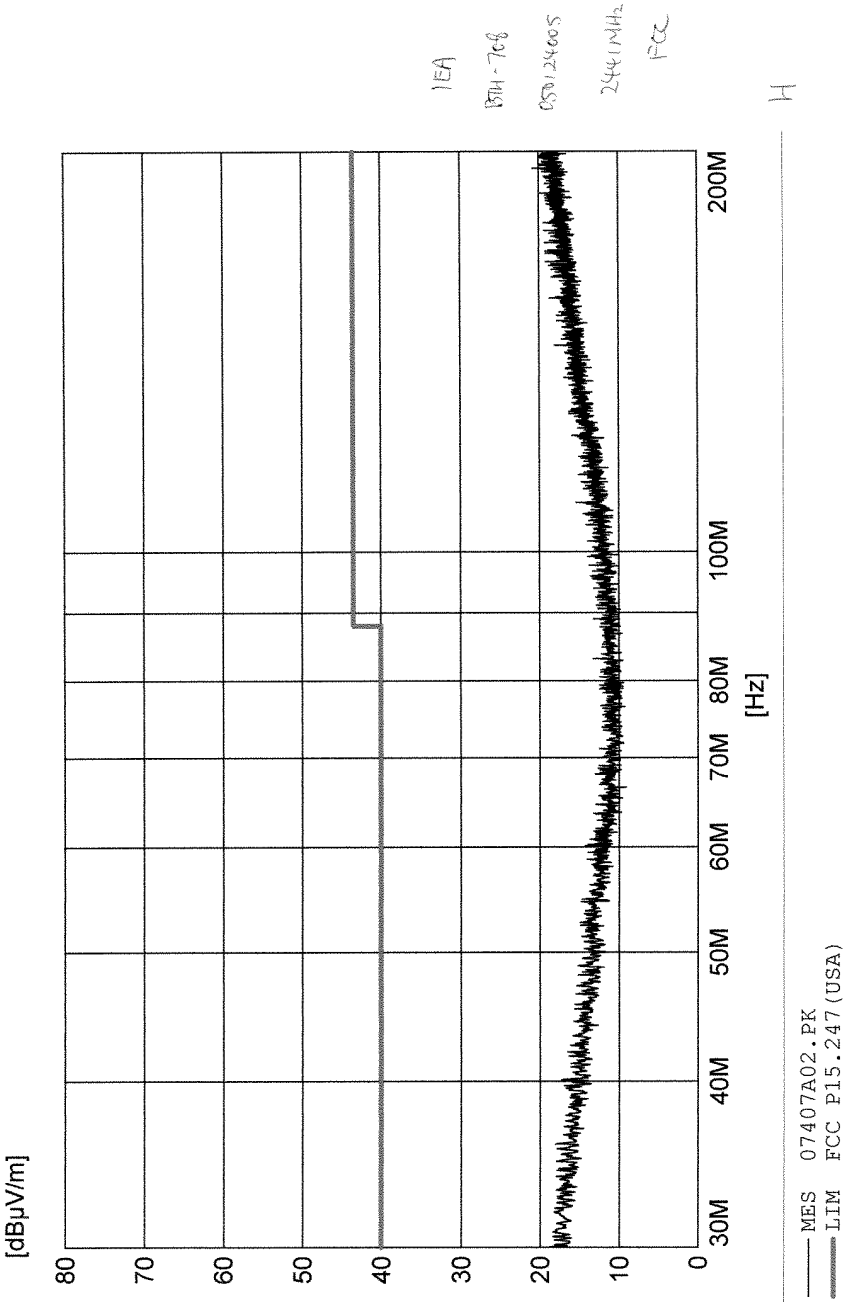
BSH-708

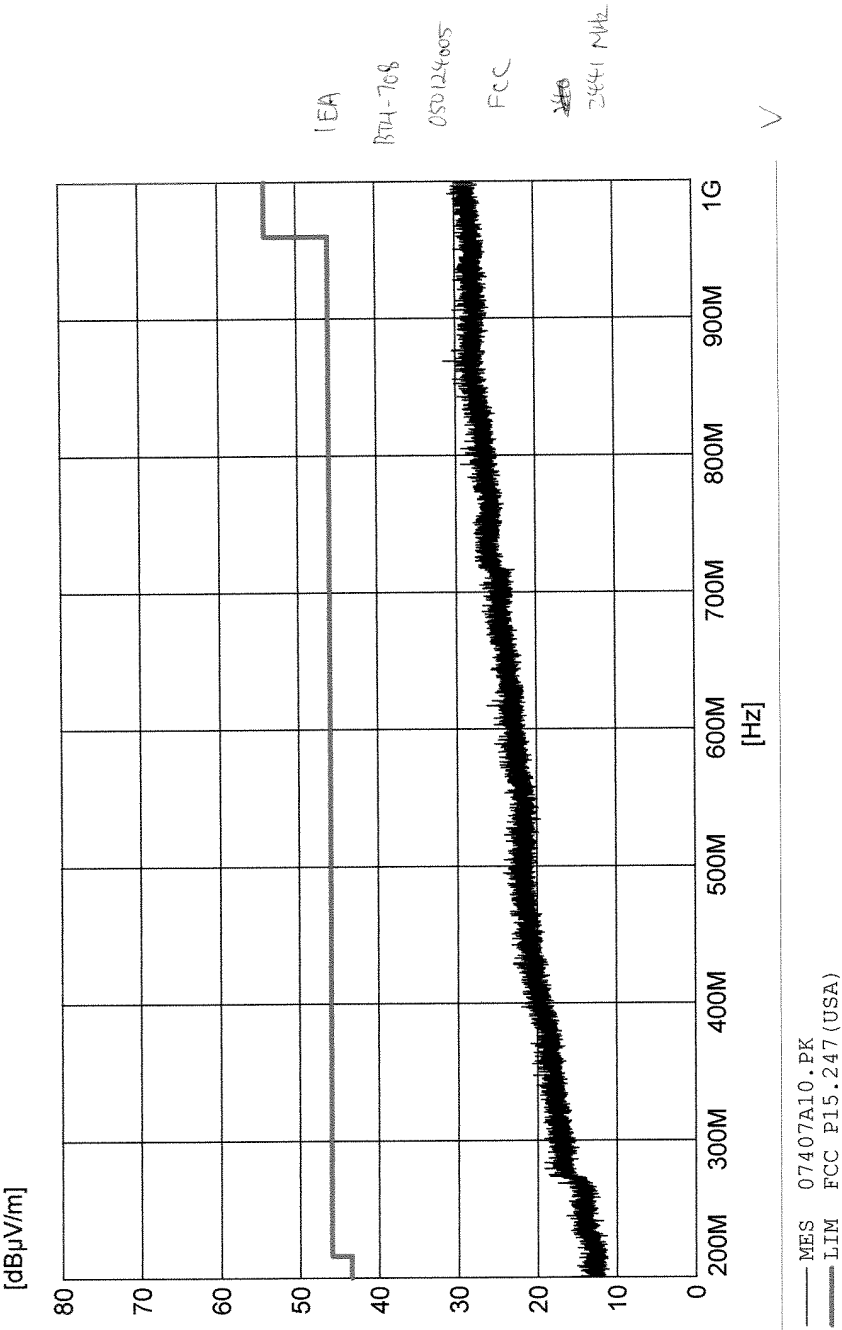
050124005

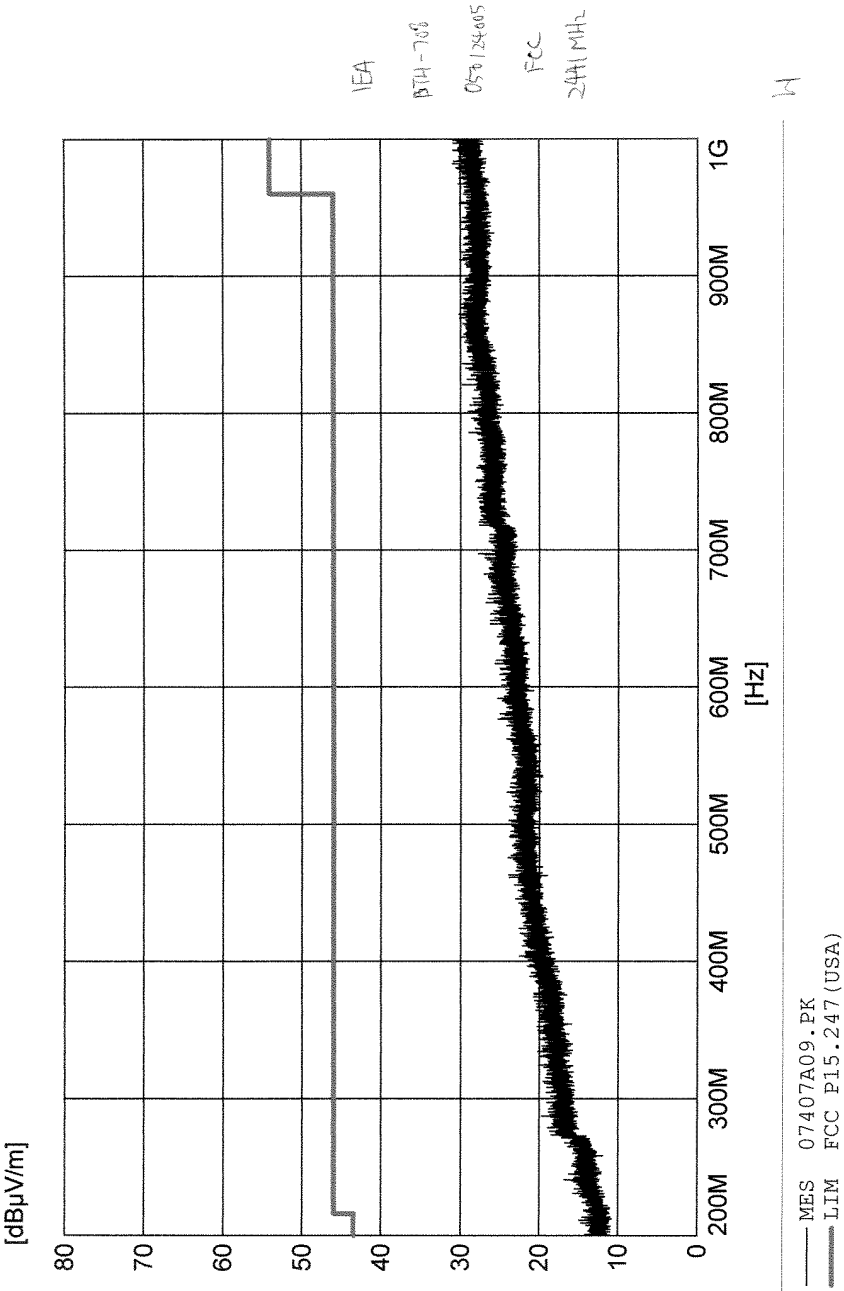
2402MHz

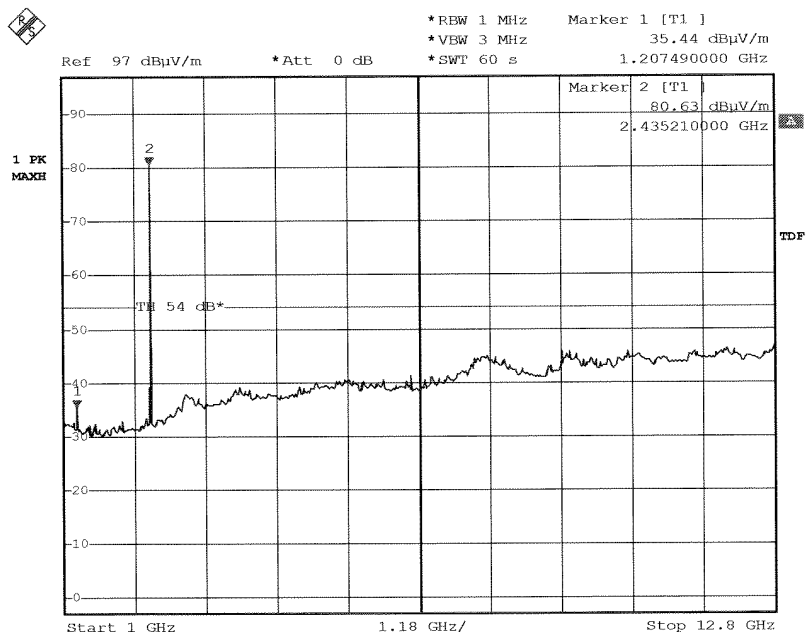
FCC.











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

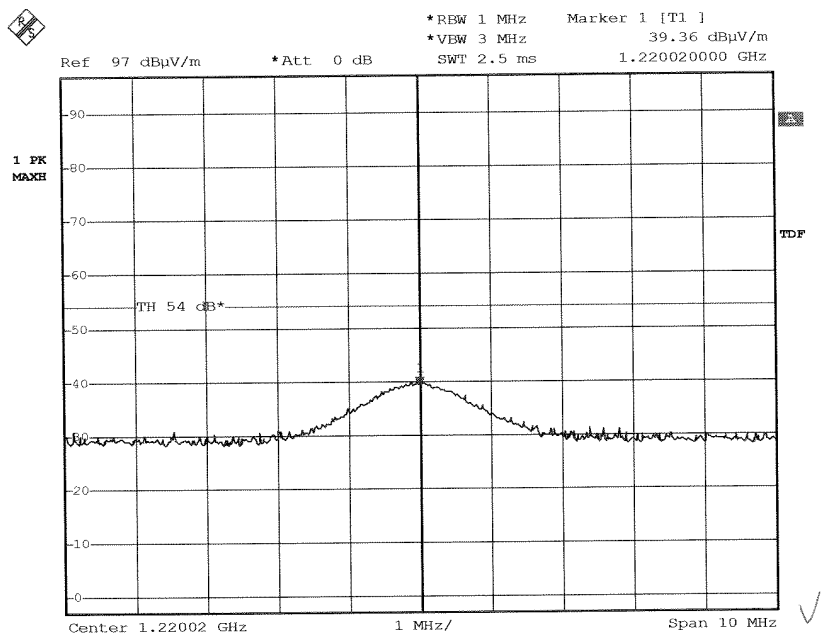
IEA

BTH-706

050124005

2441MHz

FCC.



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

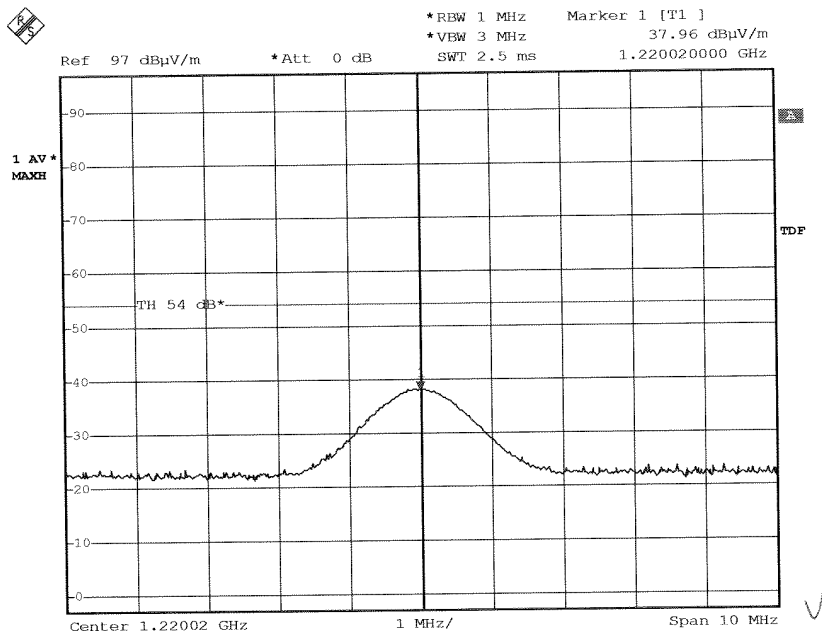
IEA

BTH-706

050124005

2441MHz

FCC



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

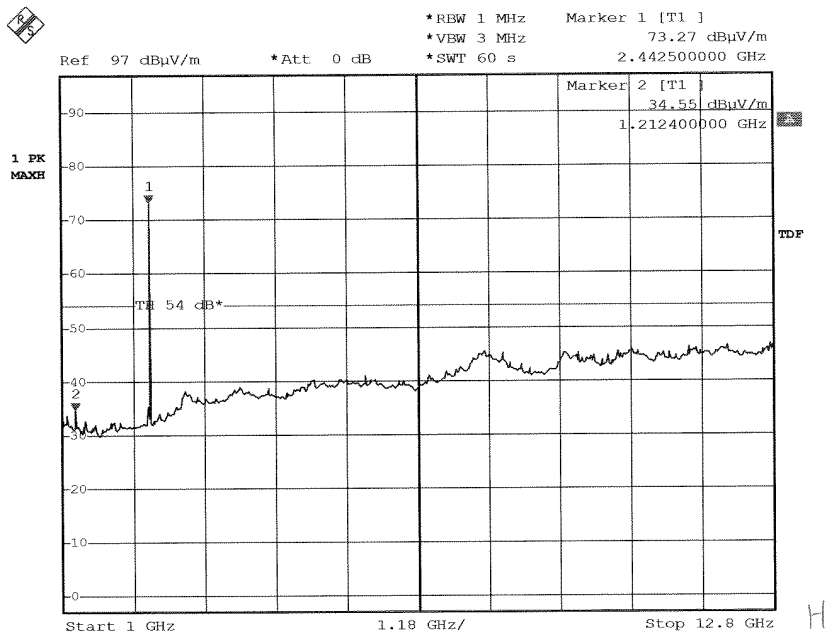
IEA

BTH-708

050124005

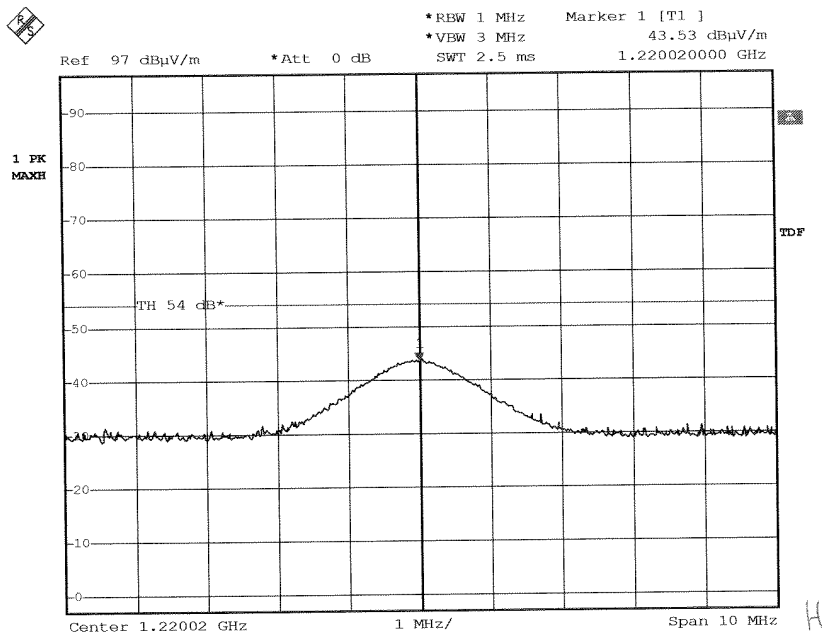
2441MHz

FCC.



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

IEA
BTU-708
050124005
2441MHz
FCC.



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

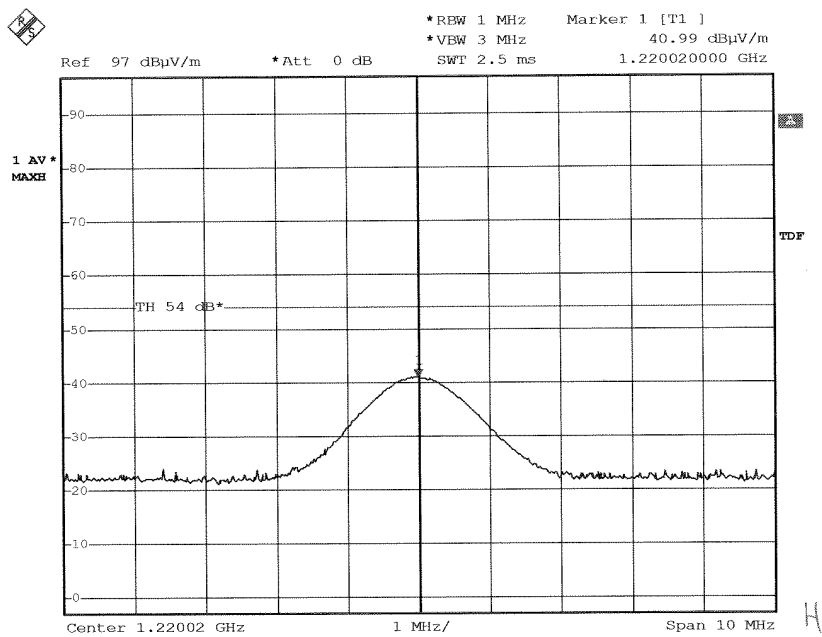
LEA

BTH-708

050124005

244 MHz

FCC



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

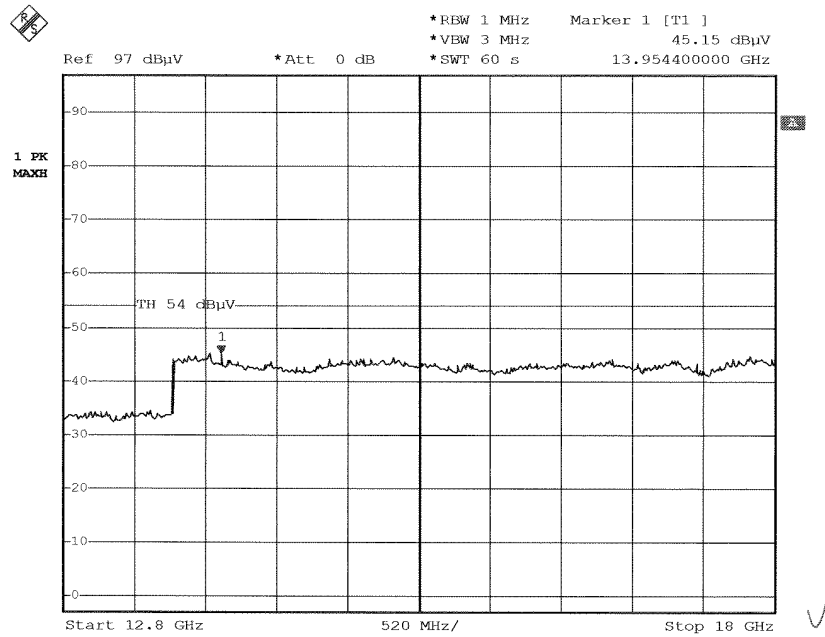
IEA

BTH-708

050124005

2441 MHz

FCC



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

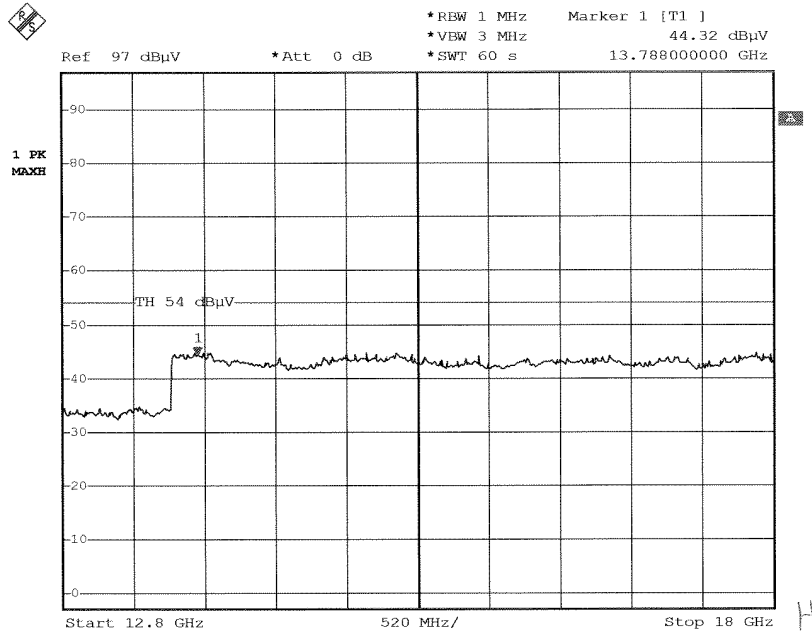
IEA

BTM-706

050124005

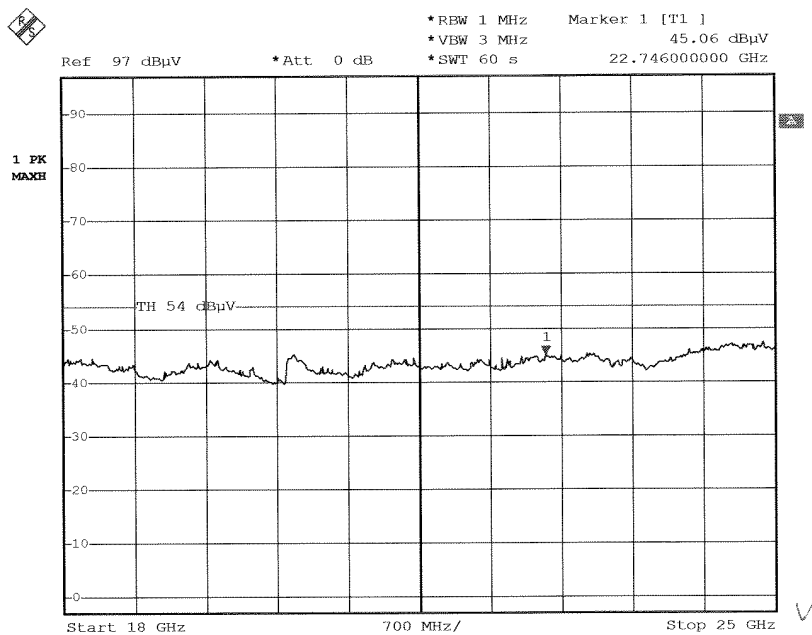
2441 MHz

FCC



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

IEA
 BTM-708
 050124005
 2441 MHz
 FCC



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

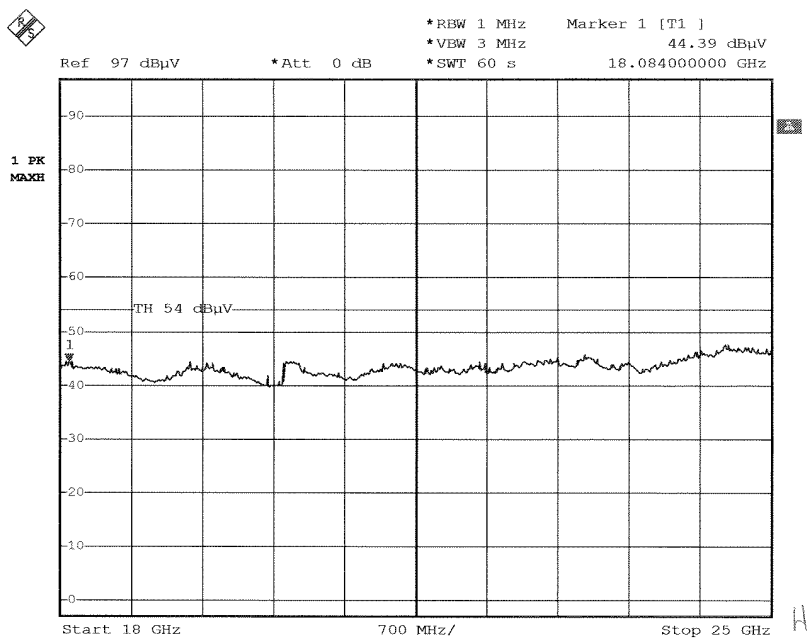
LEA

BTH-706

050124005

2441MHz

FCC



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

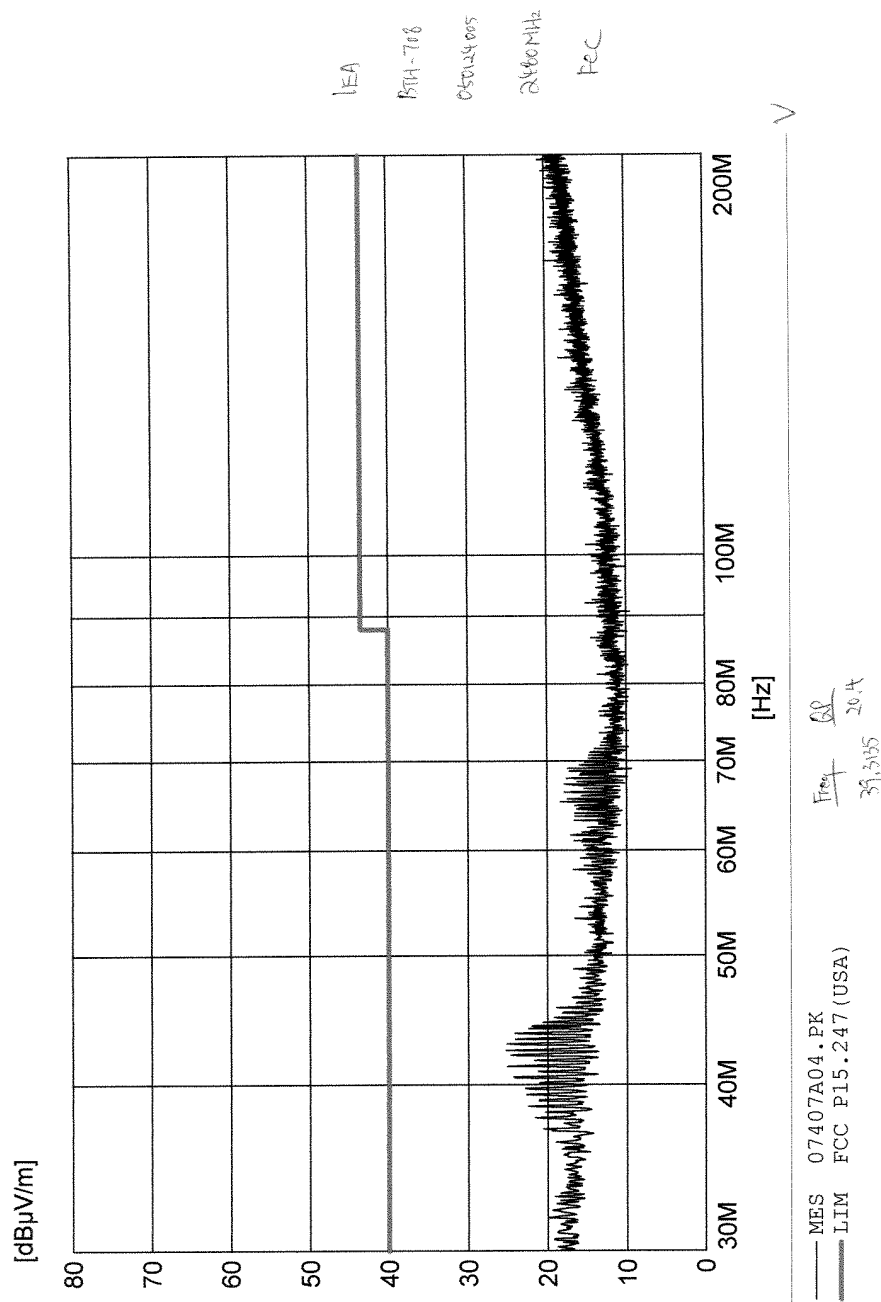
IEA

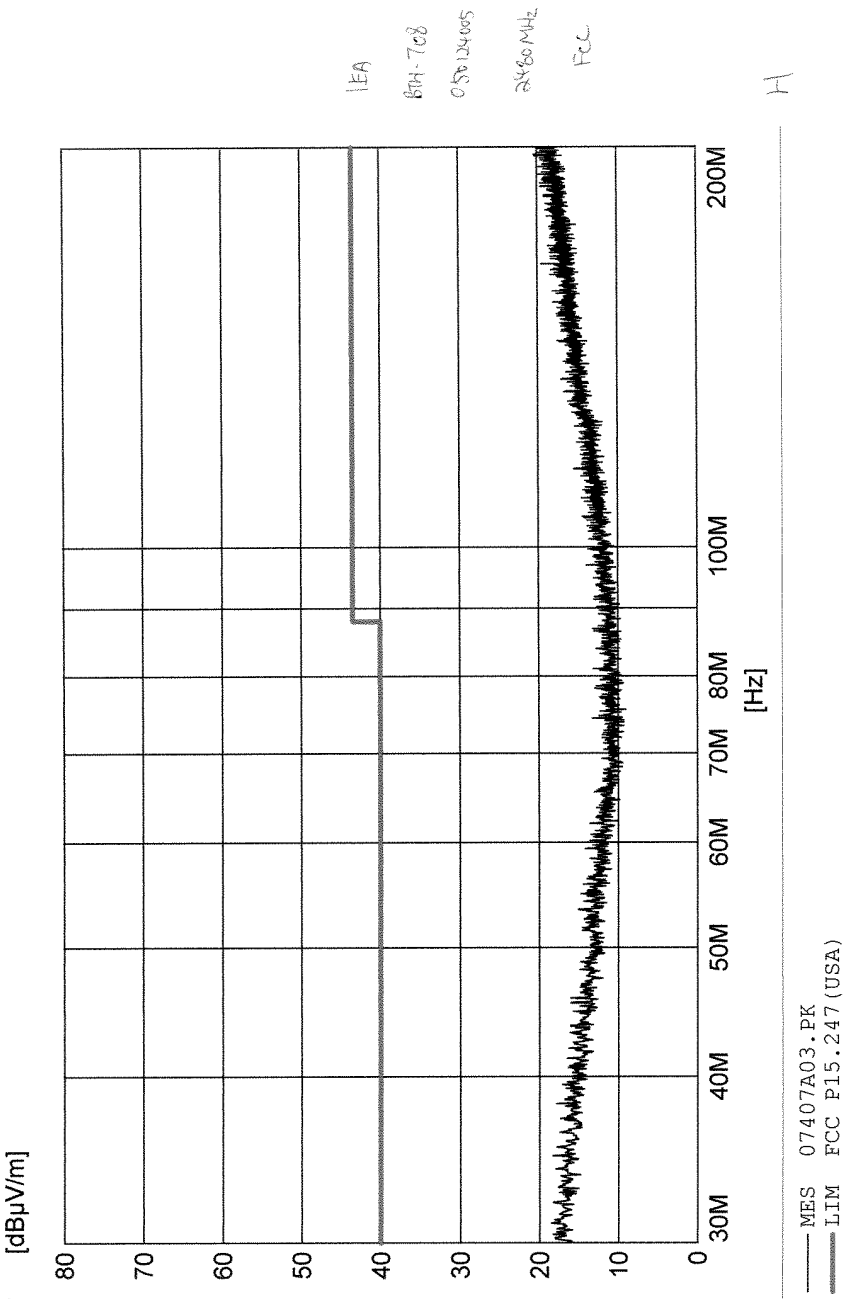
BTH-708

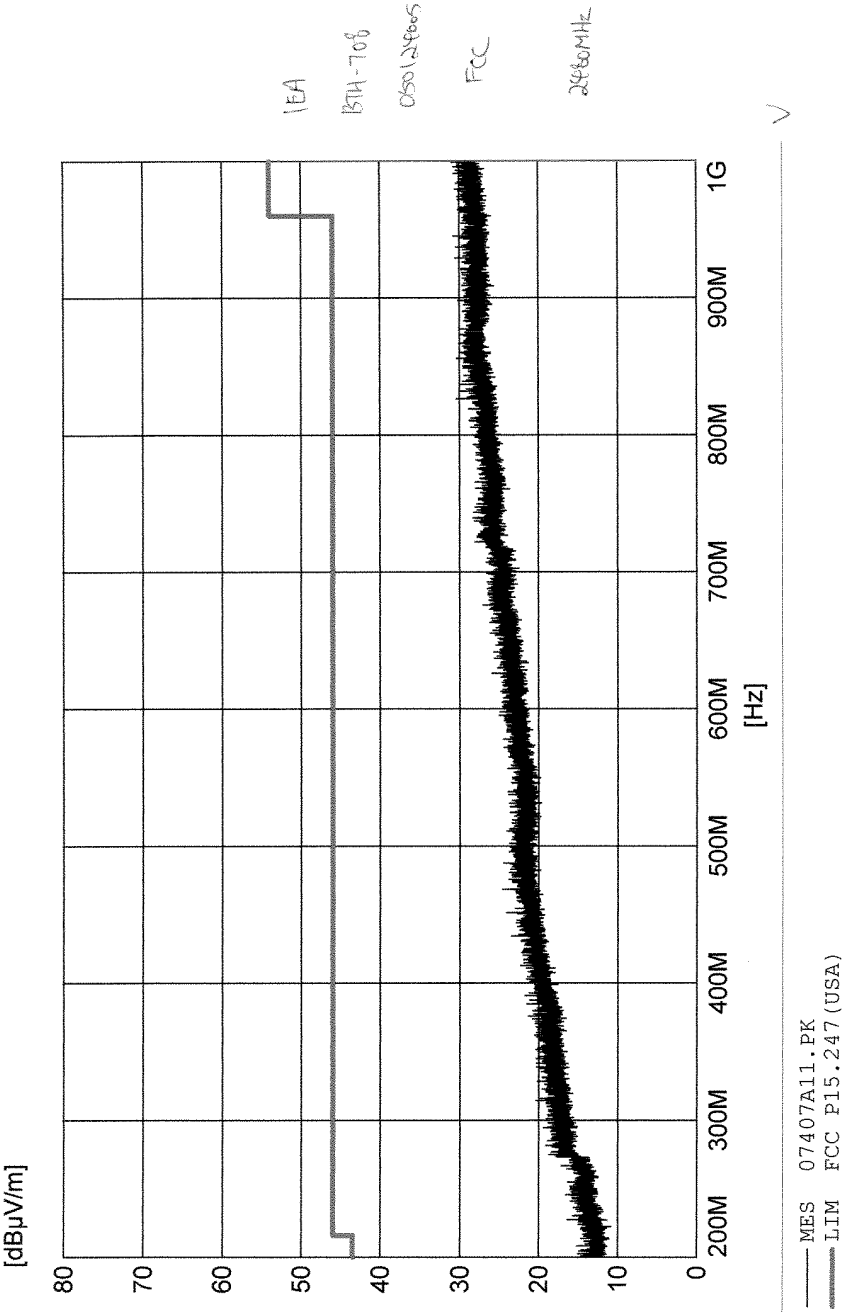
050124005

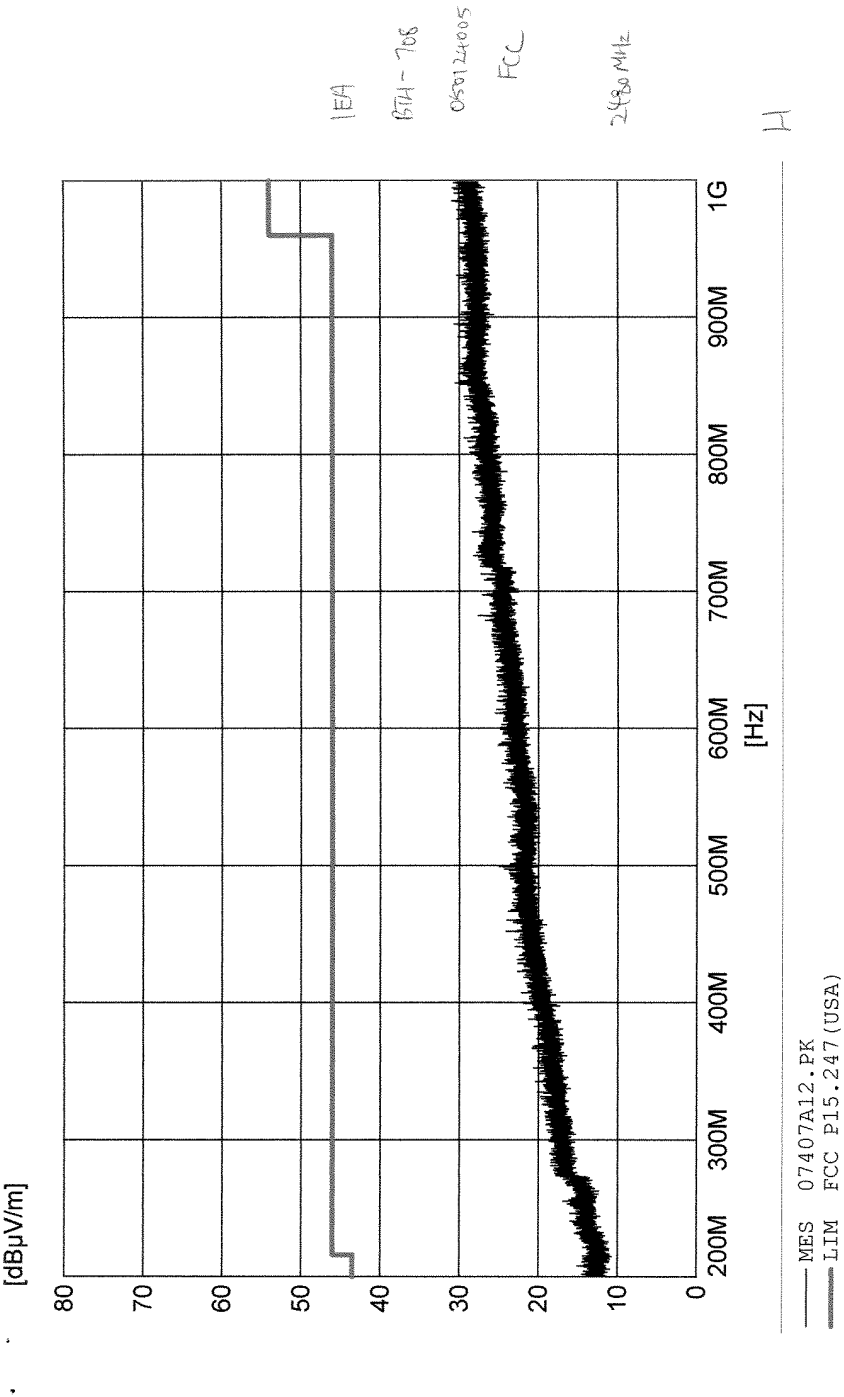
2441MHz

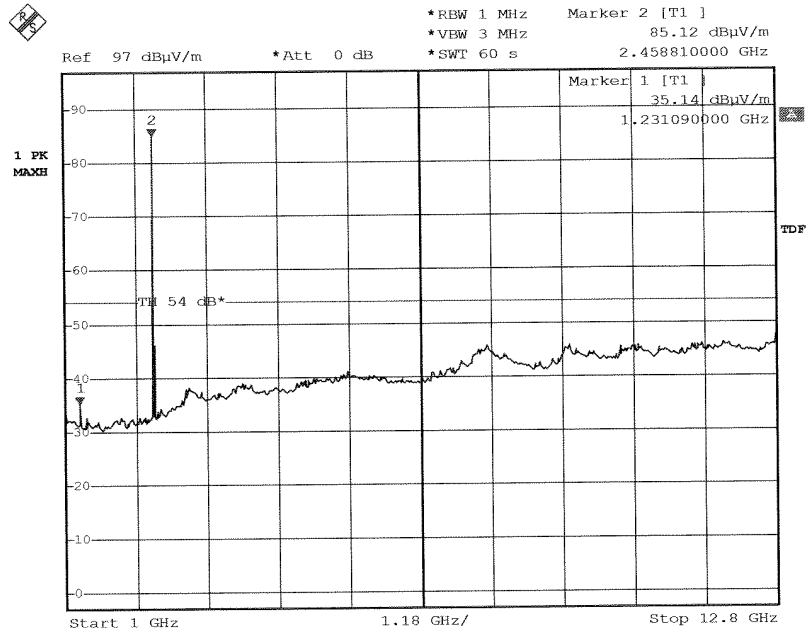
FCC











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

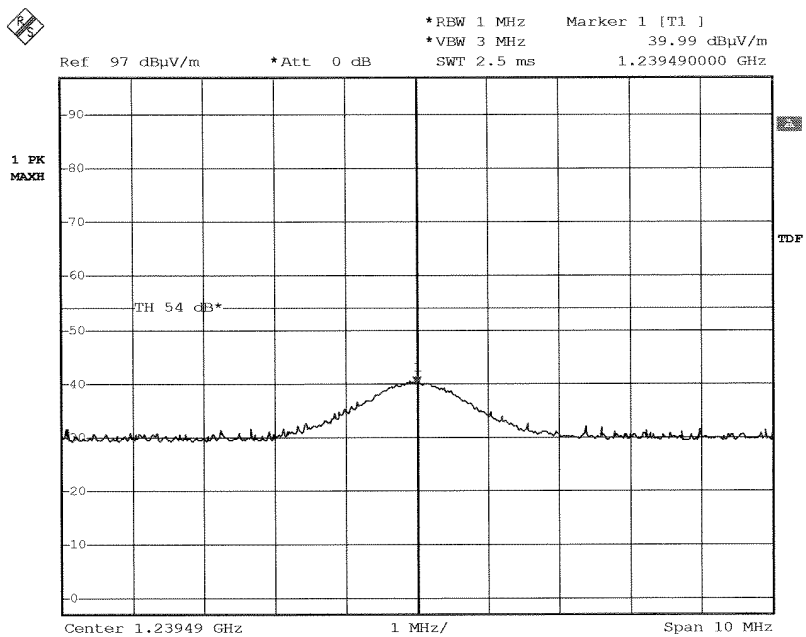
IEA

BTH-70b

050124005

2480 MHz

FCC



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

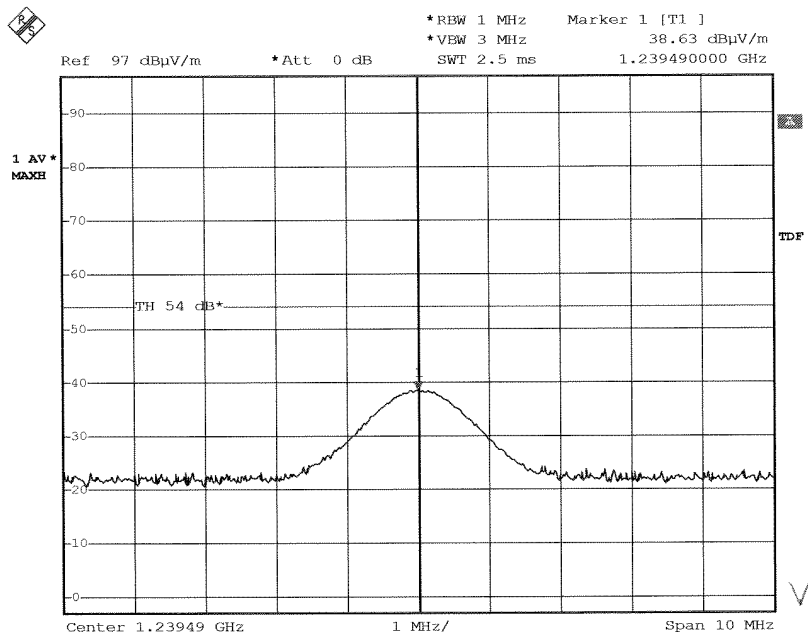
IEA

BIH-708

050124005

2480 MHz

FCC



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

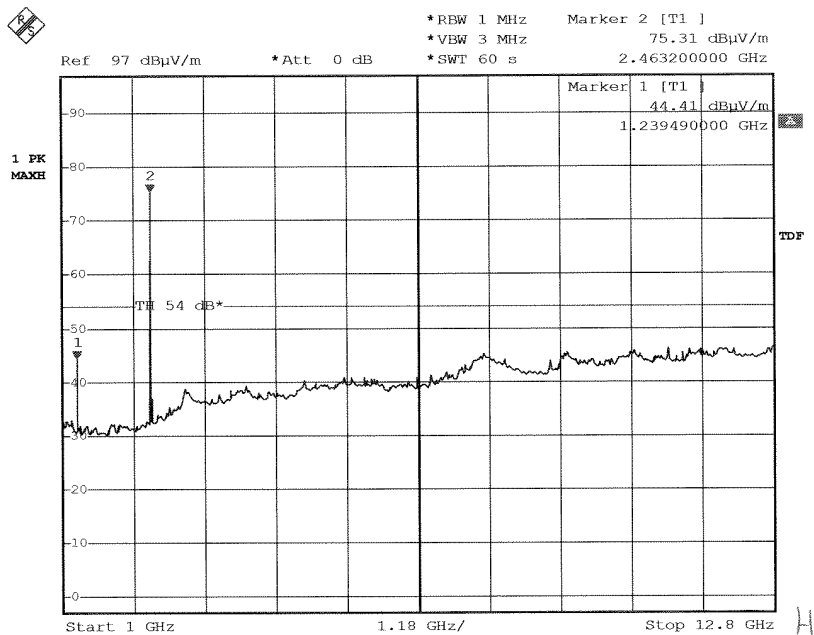
IEA

BTH-708

050124005

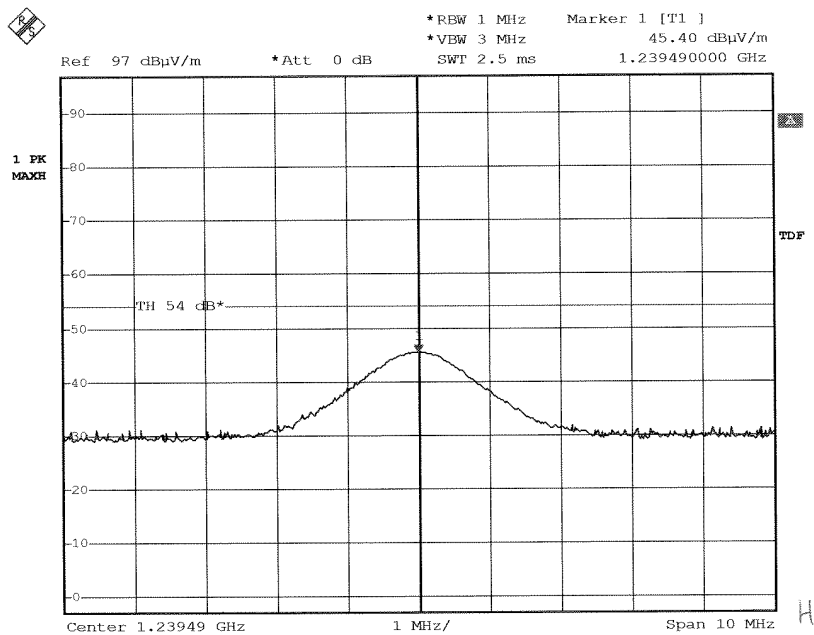
2480MHz

FCC



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

1EA
 BTH-708
 050124005
 2480 MHz
 FCC



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

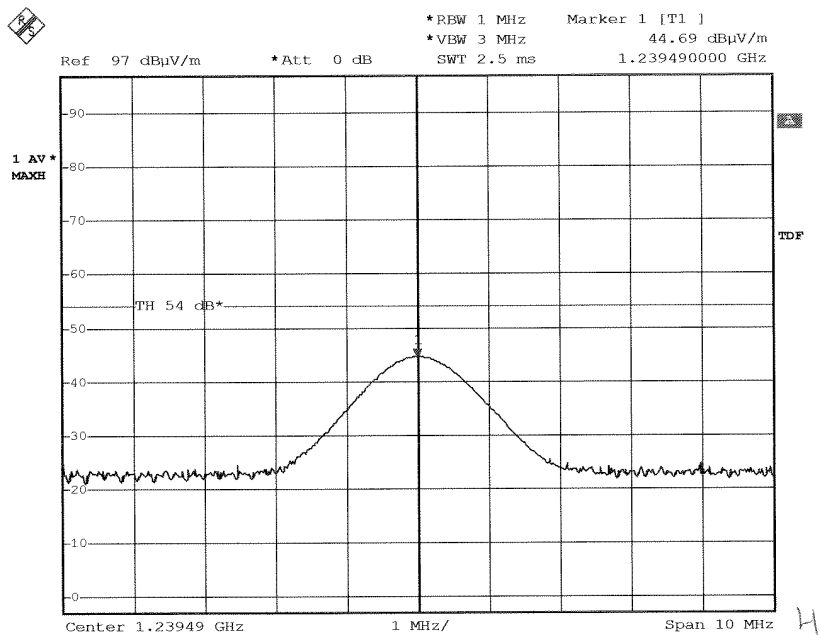
IEA

BTH-708

050124005

2480 MHz

FCC.



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

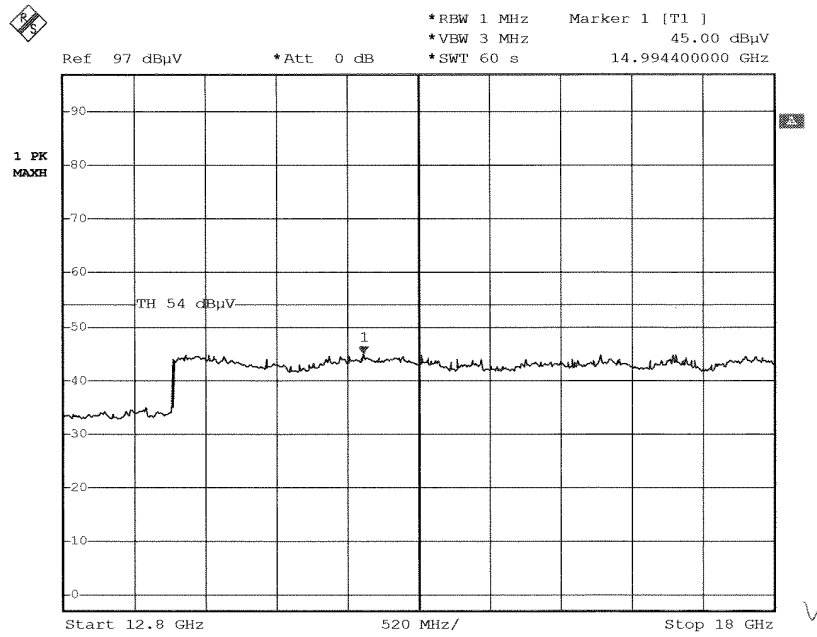
IEA

BTH-708

050124005

2480MHz

FCC



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

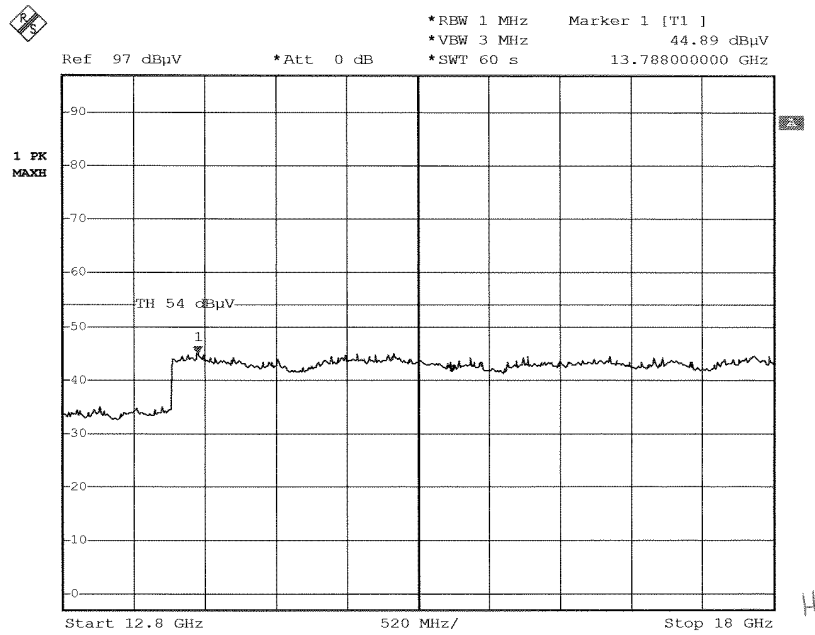
IEA

BTH-708

050124005

2480MHz

FCC.



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

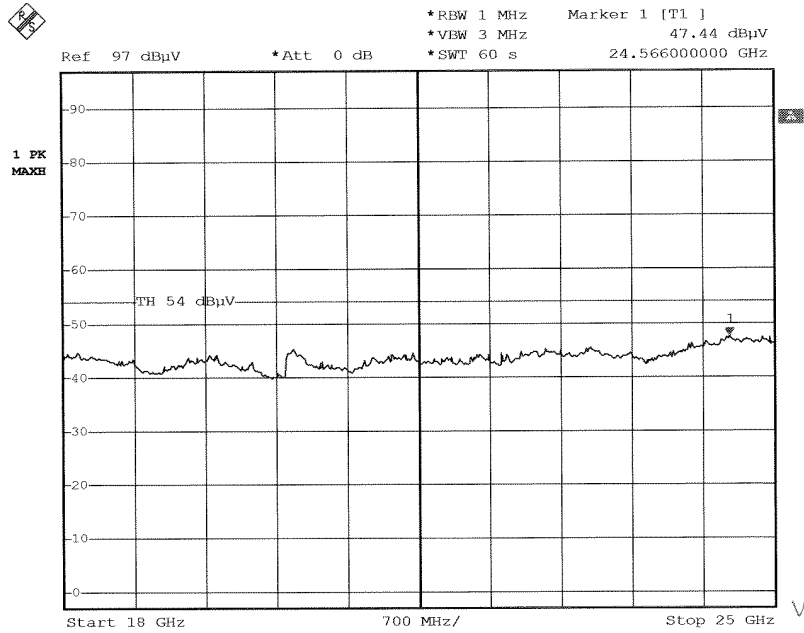
IEA

BTH-706

050124005

2480 MHz

FCC.



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

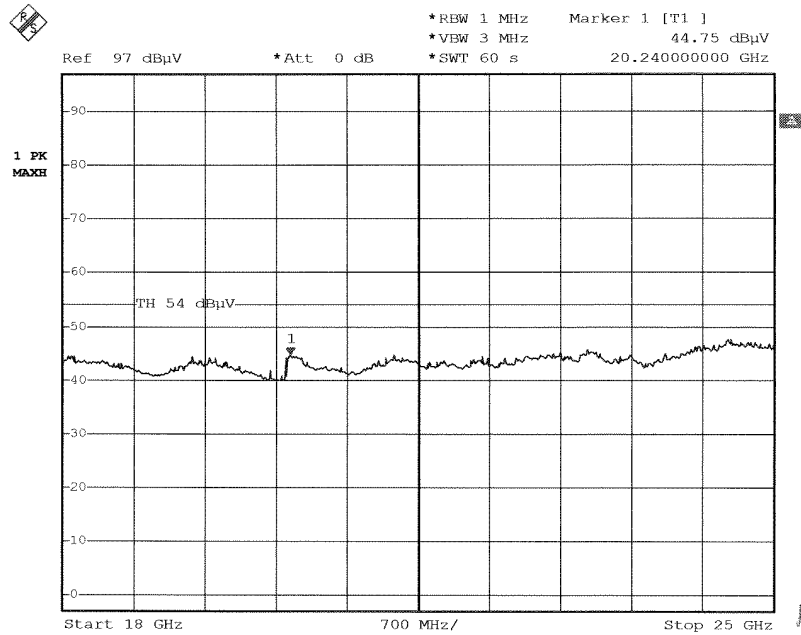
IEA

BIH-709

050124005

2480MHz

FCC



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

IEA

15TH-709

050124009

2400MHz

FCC