Appendix B

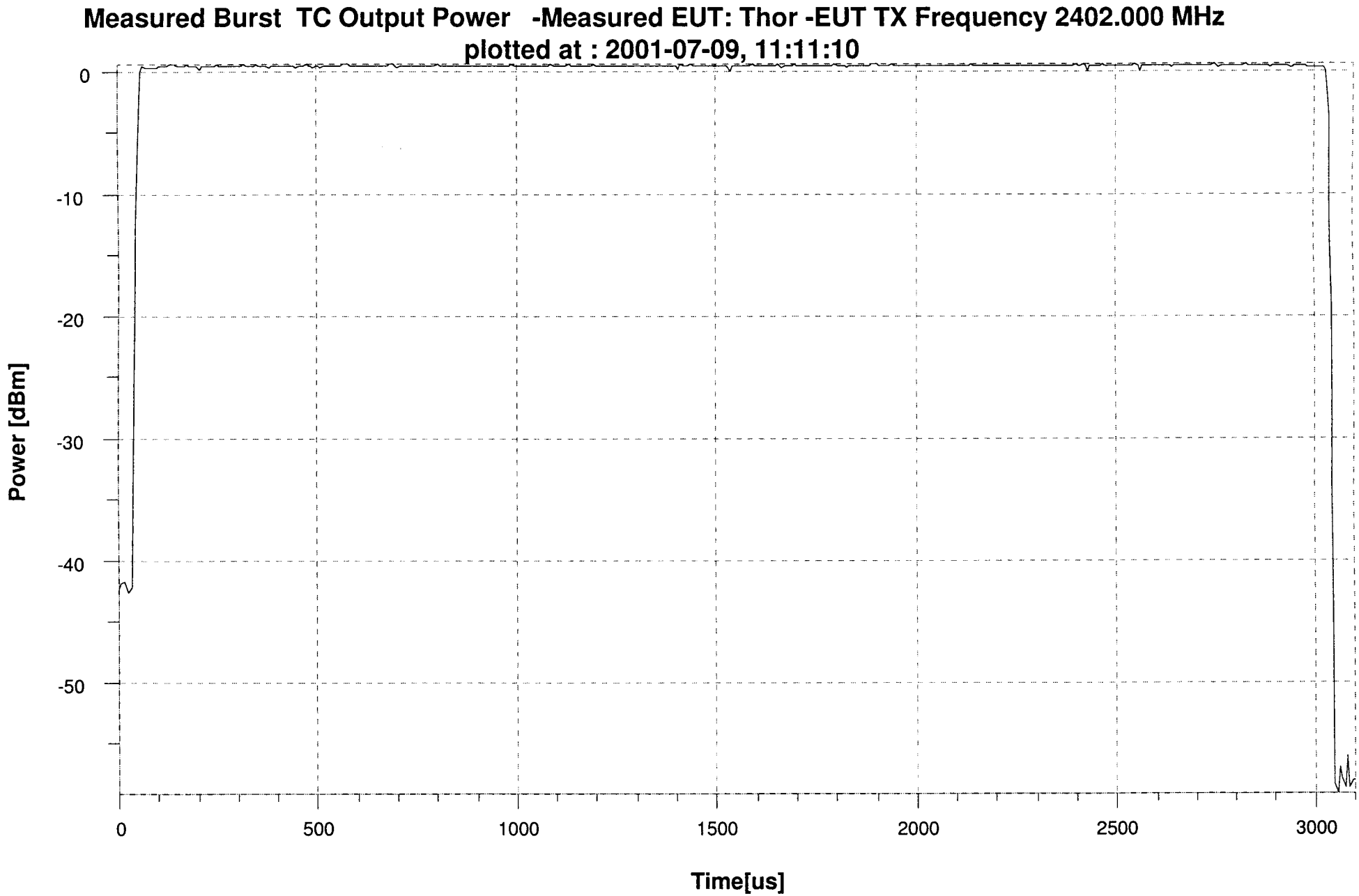
Peak Output Power

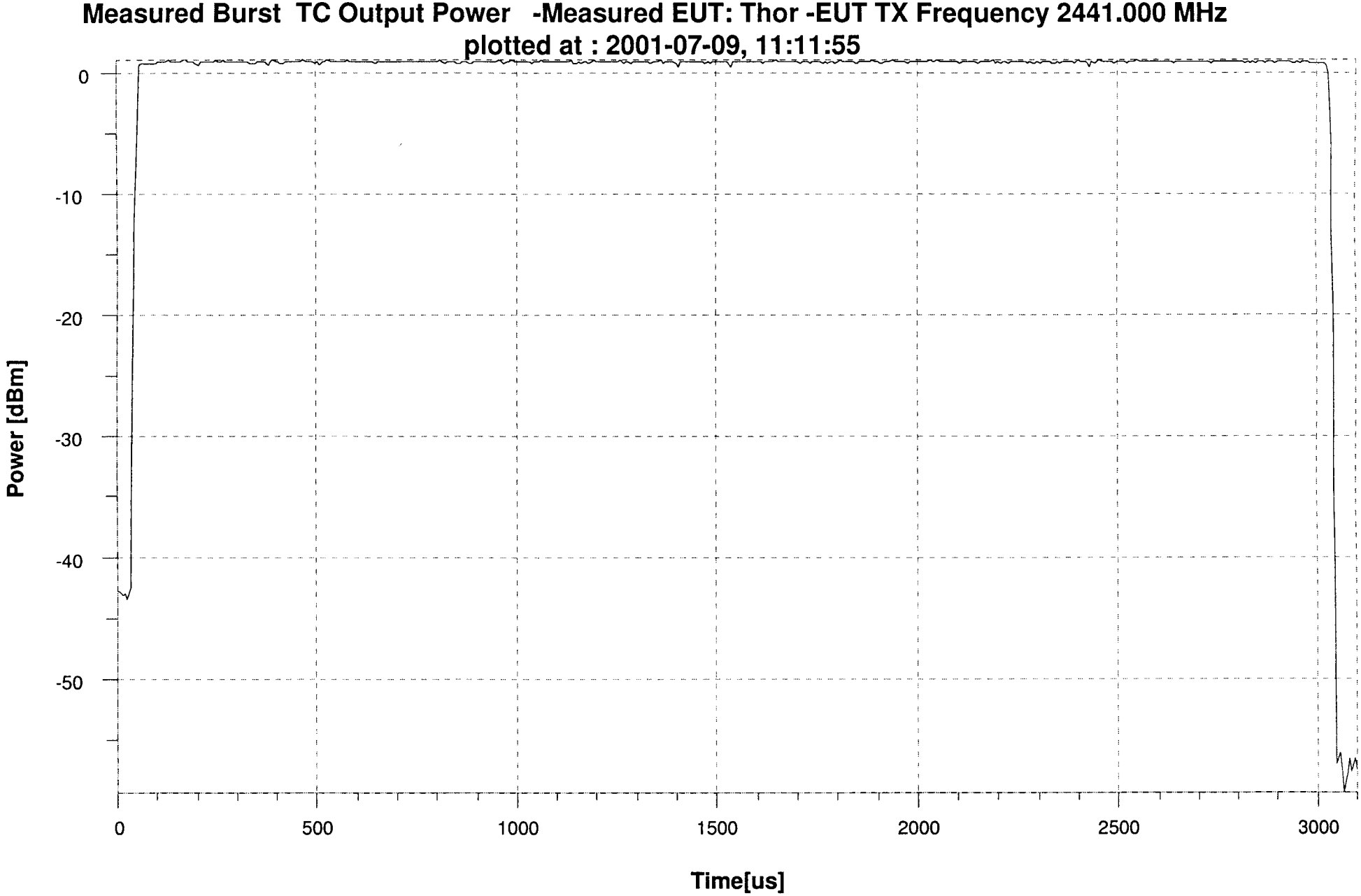
```
#=============================================================================
#  ROHDE & SCHWARZ Certific. Bluetooth Test System TS8960 SW Version: b1_23
#=============================================================================
#  Program name: tc_AllPower                          program revision: 1.1.1
#
#                All Power Measurement Test Cases
#
#
#-----------------------------------------------------------------------------
#  Test Case started: 2001-07-09, 11:10:56 (ets_1)
#  Report File: /home/ts8960/project/ts8960/sw/ALE/tc/dat/Thor/Thor.mm.rep
#  Eut File: Thor
#  Operator's account name: ts8960
#=============================================================================
#  Global Parameter Settings:
#
#  Wait On Compare                :     No
#  Wait On OUTSIDE                :     No
#  Wait On FAIL                   :     No
#  Abbort On FAIL                 :     No
#  Skip Manual Interventions      :     No
#  Plots Disabled                 :     No
#  Remove Plots after Program Run :     No
#  Info Enabled                   :     No
#  Short Mode                     :     No
#  Force Mode                     :     No
#  Part                           :      1
#
#-----------------------------------------------------------------------------


Starting program tc_AllPower
============================


TC Output Power RFC Check


.
..
Operator intervention start at 2001-07-09, 11:10:57
Intervention Type  'Please reset the EUT'
Operator intervention end at 2001-07-09, 11:10:59

Starting TC Output Power (TRM/CA/01/C)
======================================


   Test Specification RF:          0.9


EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT COND'
================================================================================


Next measurement will be running with the following EUT paramter:

   Manufacturer:                   GN Netcom Inc.
   Model:                          Bluetooth Headset / Thor
   Serial No:                      no info
   Comment:                        class 2 Bluetooth device
   Setup mode:                     Interim Testing
   Test Mode Handle:               Every Connection
   Country:                        All
   EUT Address:                    00025B000000 hex
   Tester Address:                 008037122094 hex
   Active Member Address:          00000007 hex
   Access Code from EUT:           AD59EE5328A41120D5 hex
```

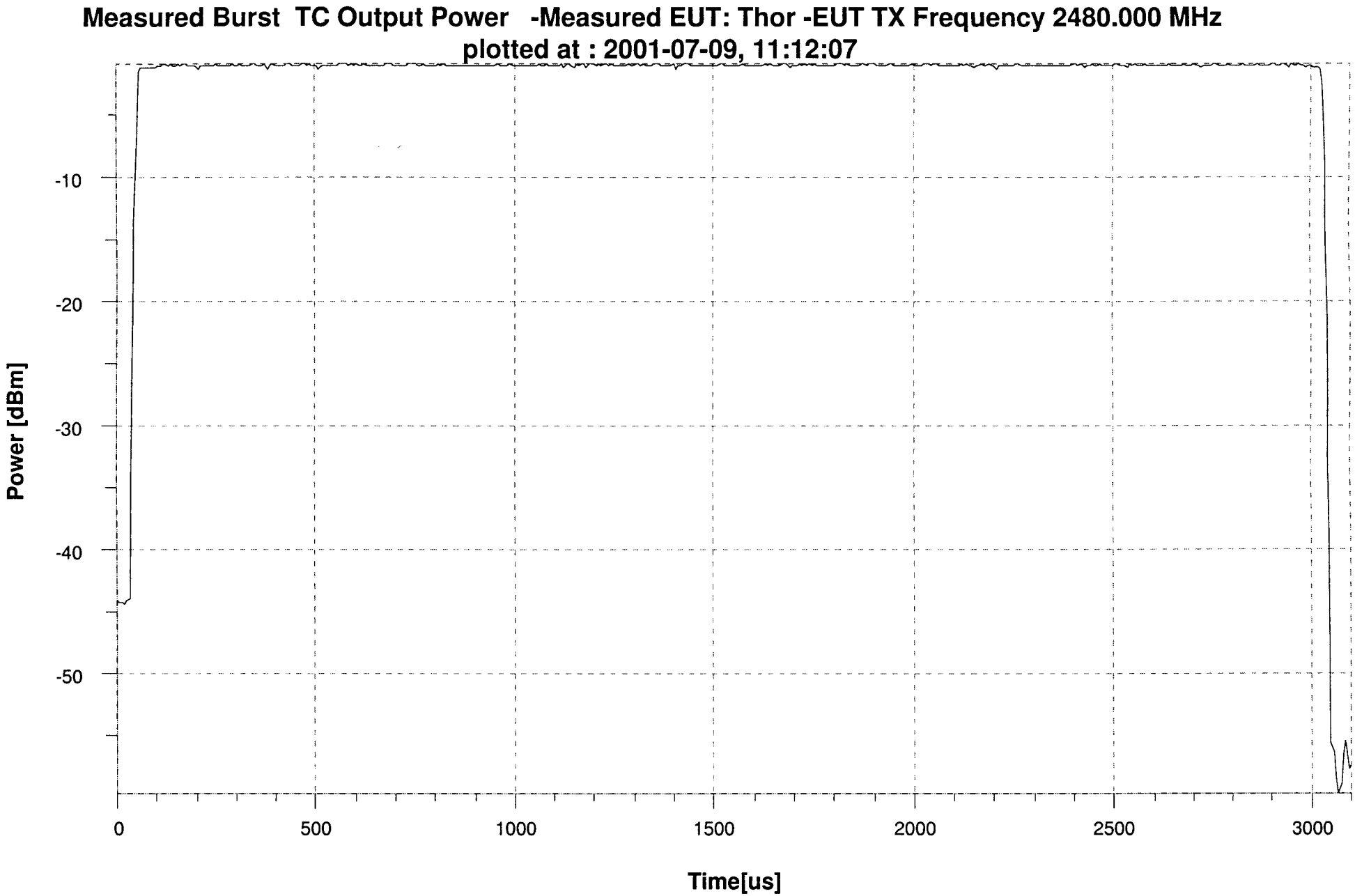


```
   Access Code from SU:            AD59EE5328A41120D5 hex
   Burst Distance:                 10        Time Slots
   Trigger for SU:                 Not supported
   Power Class:                    2
   Power Control:                  Not supported
   Gain:                           0.000     dBi
   Add. Transmission (Receive):    0.000     dB
   Add. Transmission (Transmit):   0.000     dB
   Longest Packet Type:            DH5
   Unmod. part before Mod.:        100.000   us
   Unmod. part after Mod.:         0.000     us
   Payload Length DH1:             216       Bits
   Payload Length DH3:             1464      Bits
   Payload Length DH5:             2712      Bits
   Voltage Value 1:                3.800     Volt
   Voltage Value 2:                12.000    Volt
   Temperature:                    25.000    Deg C

Next measurement will be running with the following parameter:

   Voltage:                        Middle
   Temperature:                    Middle
   Power Mode:                     Not Controlled
   Measurement:                    Conducted
   EUT Test Mode:                  TX
   B1 Data From File:              No
   B1 Signal Packet Type:          DH5
   B1 Signal Pattern:              PRBS 9
   Whitening:                      No
   Number of Packets:              1
   EUT Tx Frequency:               2402.000  MHz
   EUT Rx Frequency:               2402.000  MHz
   B1 Signalling Level:            -55.000   dBm

Operator intervention start at 2001-07-09, 11:11:01
Intervention Type  'Please bring the EUT into test mode TX TEST'
Operator intervention end at 2001-07-09, 11:11:03
Operator intervention start at 2001-07-09, 11:11:04
Intervention Type  'Please set the EUT Pattern to PRBS'
Operator intervention end at 2001-07-09, 11:11:05
Operator intervention start at 2001-07-09, 11:11:06
Intervention Type  'Please set the EUT Packet Type to DH5'
Operator intervention end at 2001-07-09, 11:11:06
Operator intervention start at 2001-07-09, 11:11:06
Intervention Type  'Please set the EUT TX Frequency to 2402.000000 MHz'
Operator intervention end at 2001-07-09, 11:11:07
Operator intervention start at 2001-07-09, 11:11:07
Intervention Type  'Please set the EUT RX Frequency to 2402.000000 MHz'
Operator intervention end at 2001-07-09, 11:11:07


================================================================================
TX FREQ     RX FREQ     MEAS FREQ     MEASUREMENT     LEVEL     LIMIT    VERDICT
 [MHz]       [MHz]       [MHz]                        [dBm]     [dBm]
--------------------------------------------------------------------------------

 2402.000    2402.000    2402.000  Average (+ gain)   0.46 <  20.00     PASS
 2402.000    2402.000    2402.000  Peak (+ gain)      0.61 <  23.00     PASS
 2402.000    2402.000    2402.000  Average            0.46 <   4.00     PASS
 2402.000    2402.000    2402.000  Average            0.46 >  -6.00     PASS
Operator intervention start at 2001-07-09, 11:11:10
Intervention Type  'Please set the EUT TX Frequency to 2441.000000 MHz'
Operator intervention end at 2001-07-09, 11:11:52
Operator intervention start at 2001-07-09, 11:11:52
Intervention Type  'Please set the EUT RX Frequency to 2441.000000 MHz'
Operator intervention end at 2001-07-09, 11:11:53

 2441.000    2441.000    2441.000  Average (+ gain)   0.90 <  20.00     PASS
 2441.000    2441.000    2441.000  Peak (+ gain)      1.07 <  23.00     PASS
```

```
 2441.000   2441.000   2441.000  Average           0.90 <   4.00     PASS
 2441.000   2441.000   2441.000  Average           0.90 >  -6.00     PASS
Operator intervention start at 2001-07-09, 11:11:55
Intervention Type  'Please set the EUT TX Frequency to 2480.000000 MHz'
Operator intervention end at 2001-07-09, 11:12:04
Operator intervention start at 2001-07-09, 11:12:04
Intervention Type  'Please set the EUT RX Frequency to 2480.000000 MHz'
Operator intervention end at 2001-07-09, 11:12:05

 2480.000   2480.000   2480.000  Average (+ gain)  -1.01 <  20.00     PASS
 2480.000   2480.000   2480.000  Peak (+ gain)     -0.88 <  23.00     PASS
 2480.000   2480.000   2480.000  Average           -1.01 <   4.00     PASS
 2480.000   2480.000   2480.000  Average           -1.01 >  -6.00     PASS
================================================================================

All selected Output Power tests are completed
=============================================

#===============================================================================
#  Duration 00:01:11
#  Final Test Case verdict: PASS
#  Report file closed at 2001-07-09, 11:12:07
#===============================================================================
```

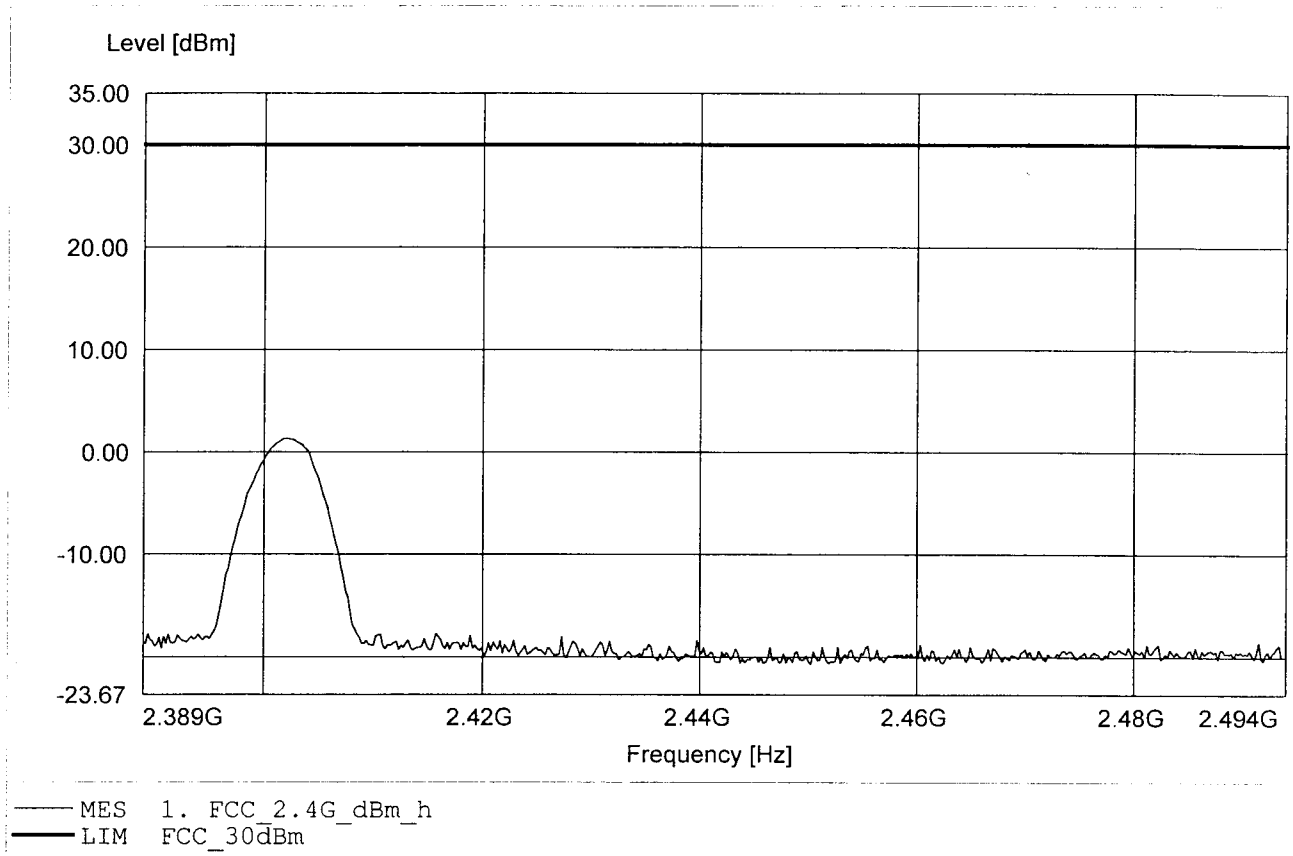

Measured Burst TC Output Power -Measured EUT: Thor -EUT TX Frequency 2402.000 MHz
plotted at : 2001-07-09, 11:11:10
Power [dBm]
0
-10
-20
-30
-40
-50
0
500
1000
1500
2000
2500
3000
Time[us]


Measured Burst TC Output Power -Measured EUT: Thor -EUT TX Frequency 2441.000 MHz
plotted at : 2001-07-09, 11:11:55
Power [dBm]
0
-10
-20
-30
-40
-50
0
500
1000
1500
2000
2500
3000
Time[us]


Measured Burst TC Output Power -Measured EUT: Thor -EUT TX Frequency 2480.000 MHz
plotted at : 2001-07-09, 11:12:07
Power [dBm]
-10
-20
-30
-40
-50
0
500
1000
1500
2000
2500
3000
Time[us]

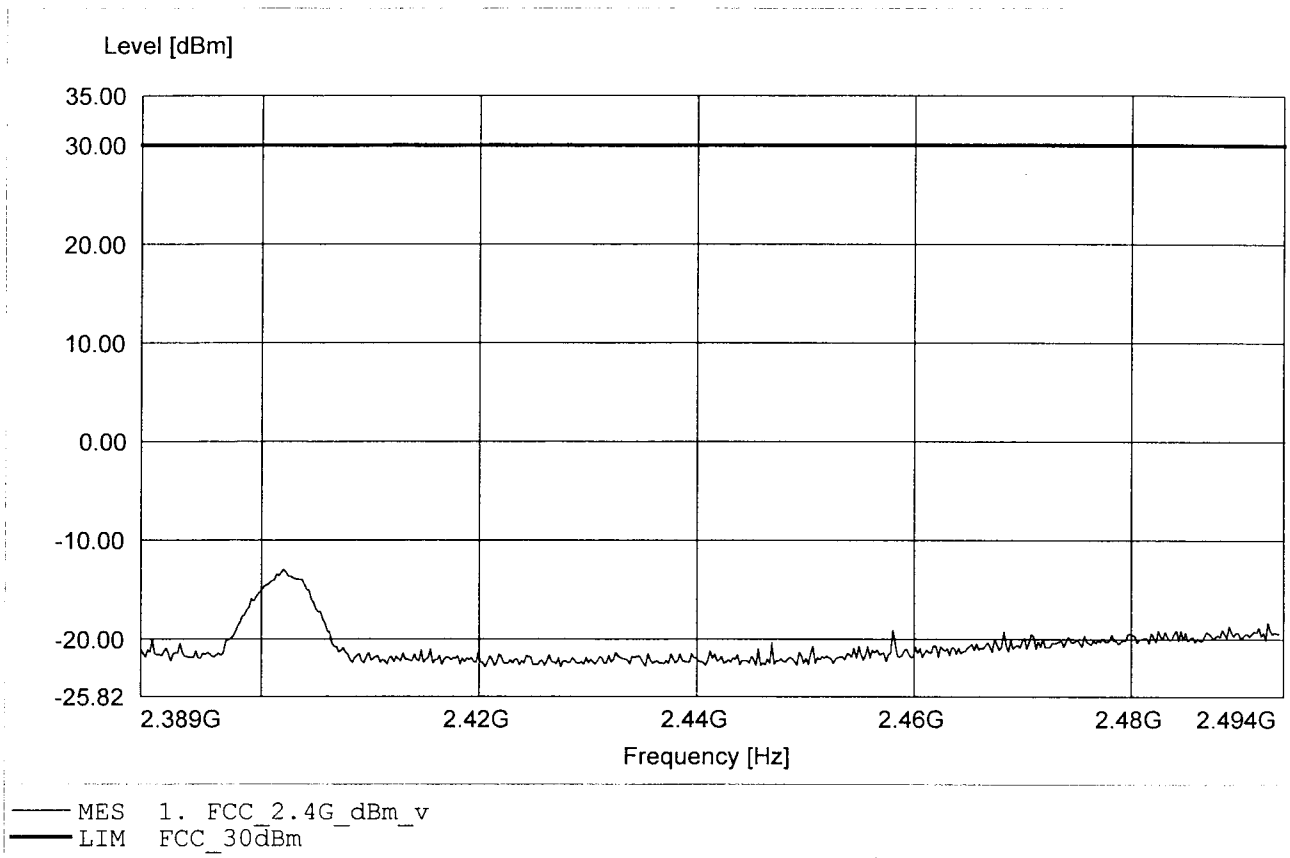
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq:2.402GHz Pmax:1.32dBm RBW:5MHz



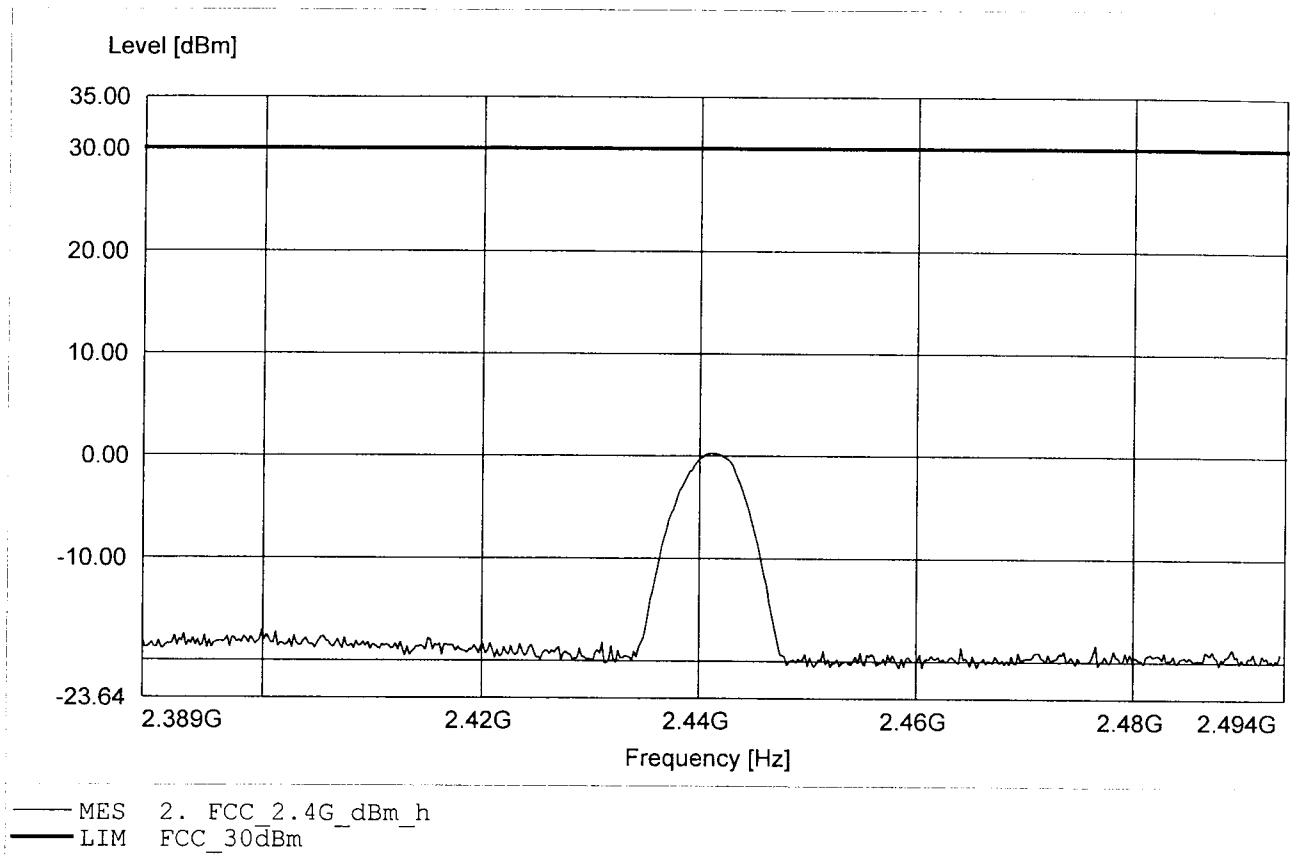
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq:2.402GHz Pmax:-12.99dBm RBW:5MHz



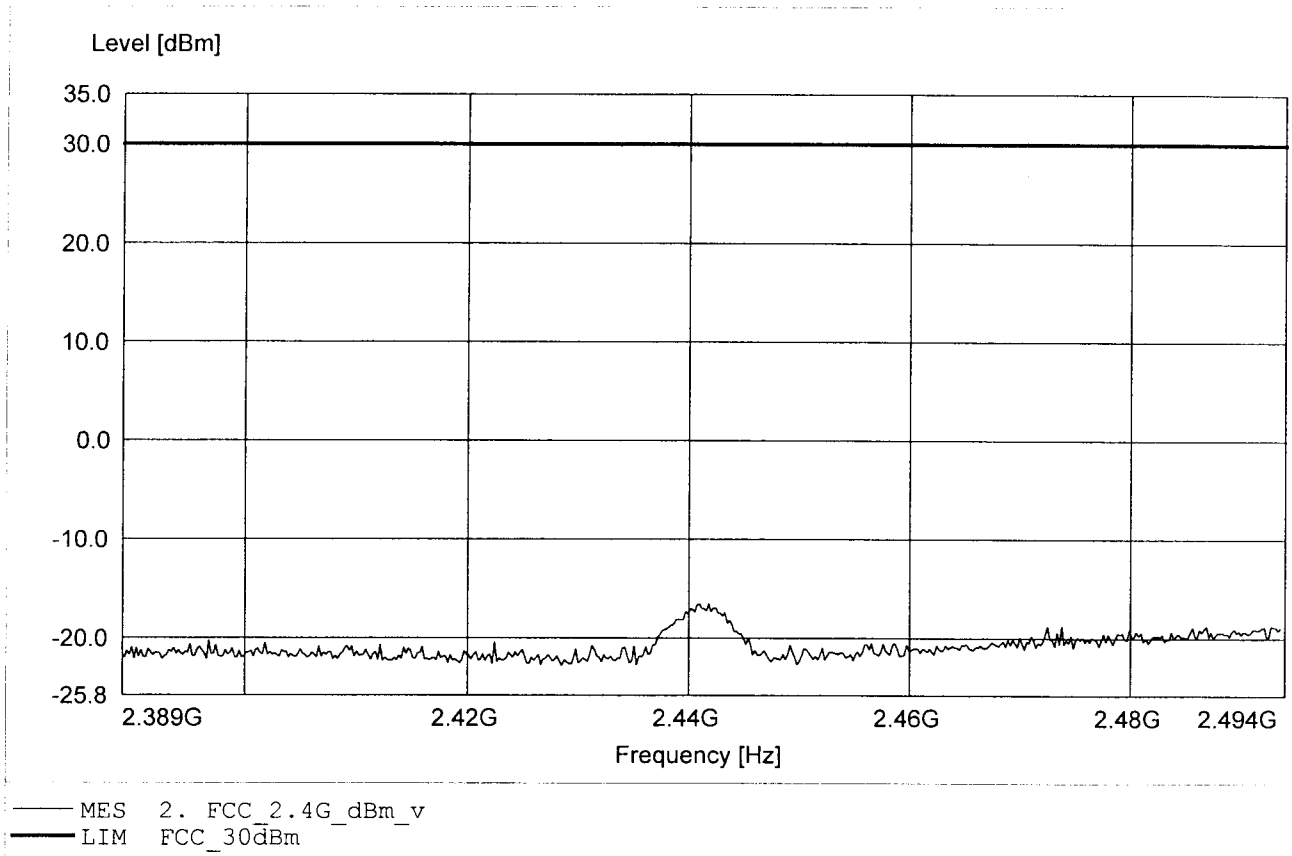
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq:2.441GHz Pmax:0.29dBm RBW:5MHz



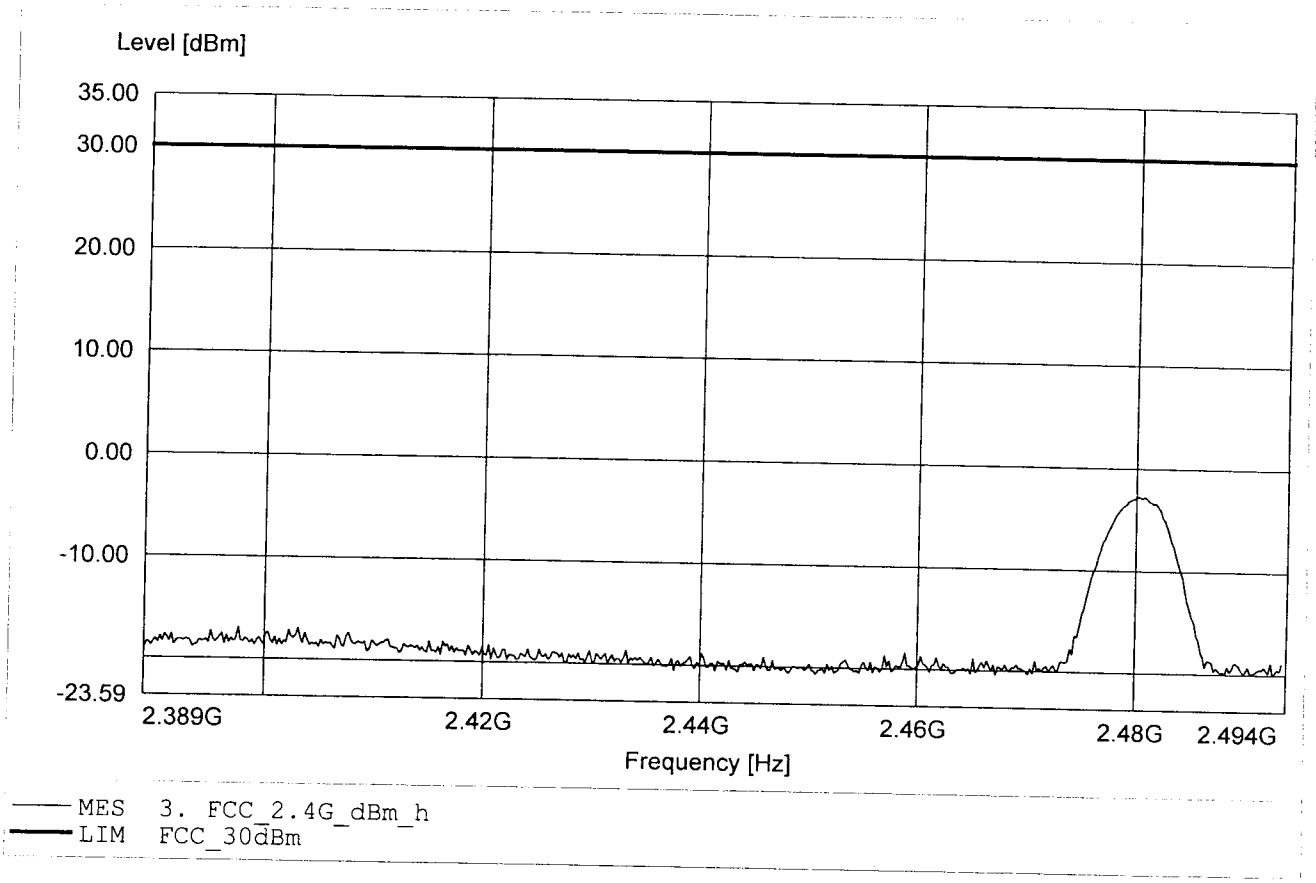
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq:2.442GHz Pmax:-16.50dBm RBW:5MHz



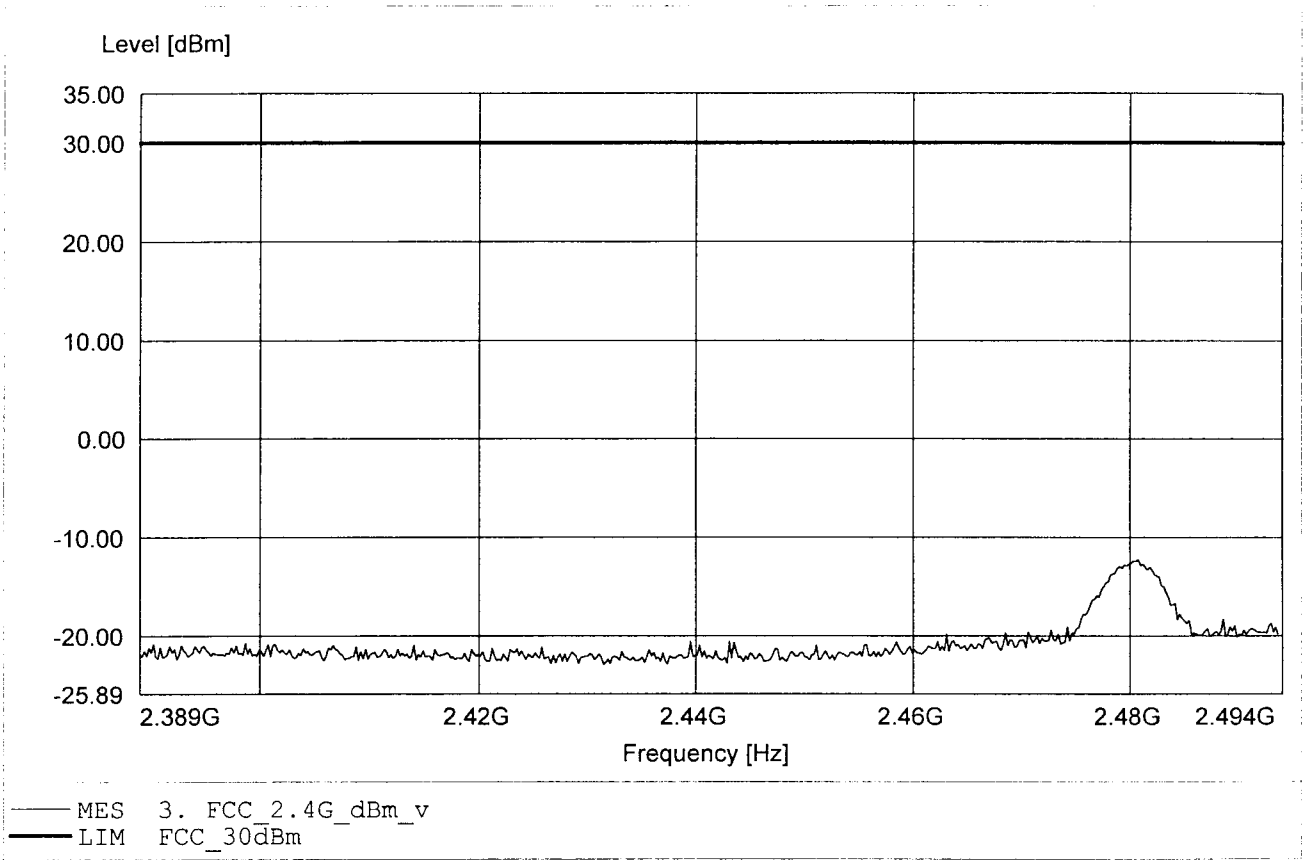
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq:2.480GHz Pmax:-2.73dBm RBW:5MHz



Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq:2.481GHz Pmax:-12.24dBm RBW:5MHz

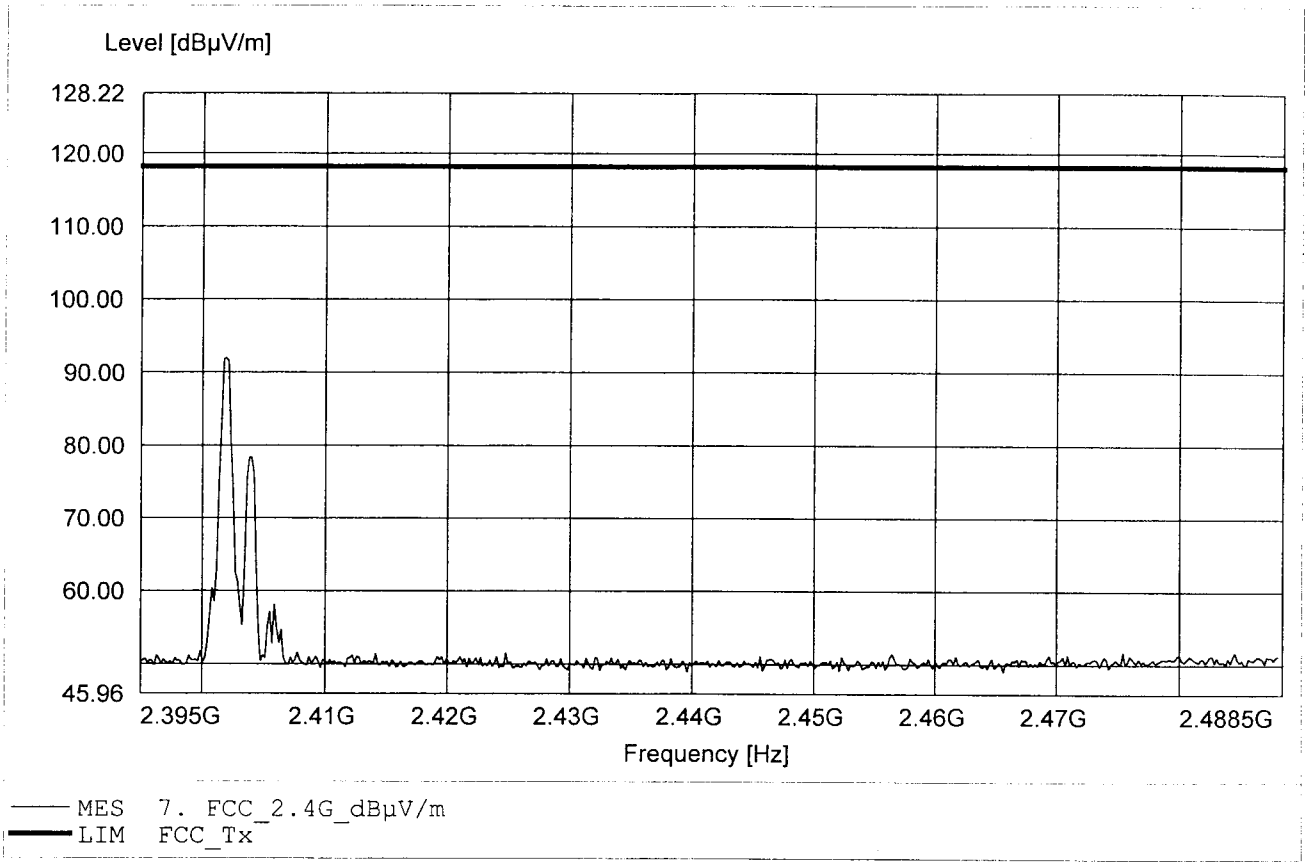


Appendix C

Spurious Emissions radiated - Transmitter operating

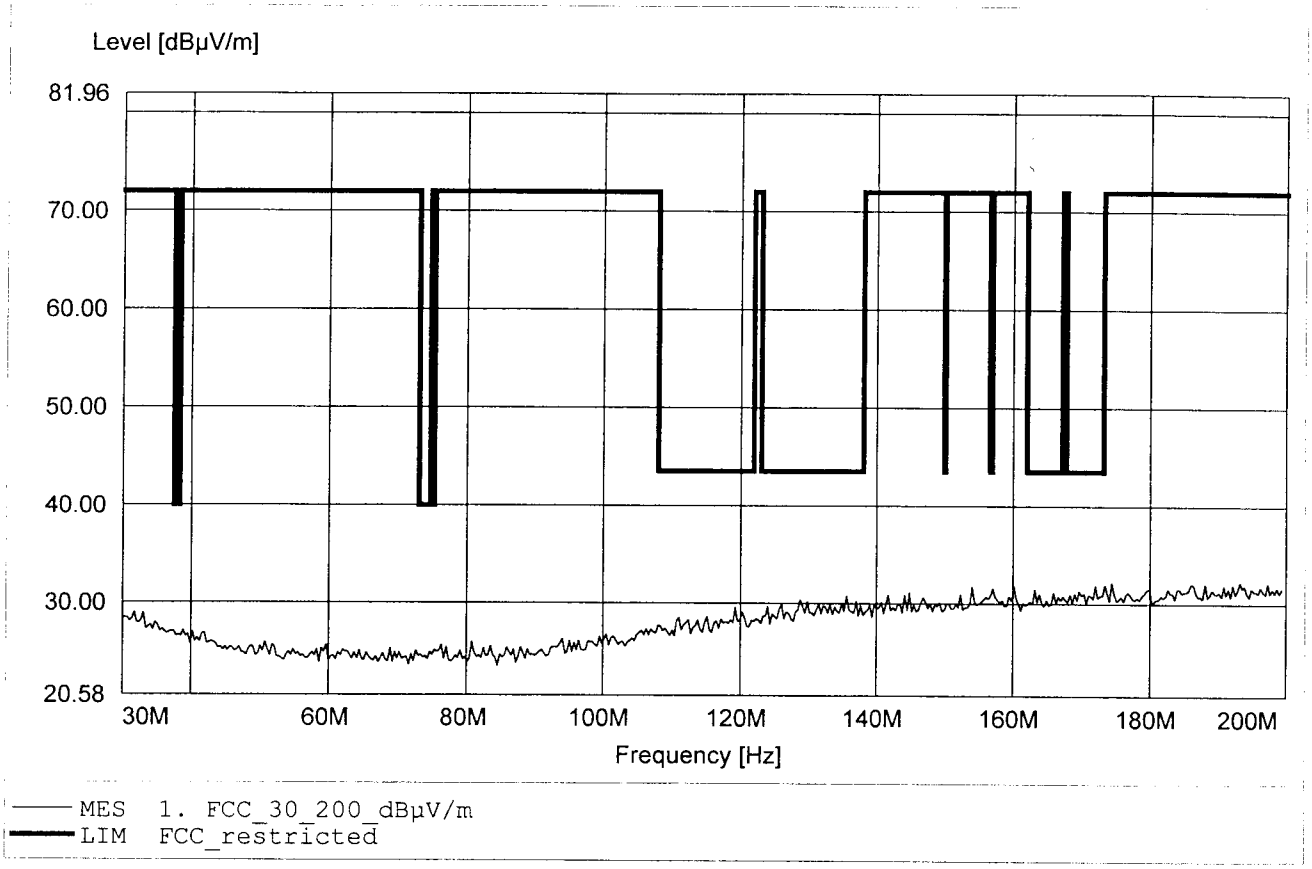
Carrier power Field Strength
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D
Comment 2:	Freq:2.402GHz Emax:91.96dBµV/m RBW:1MHz



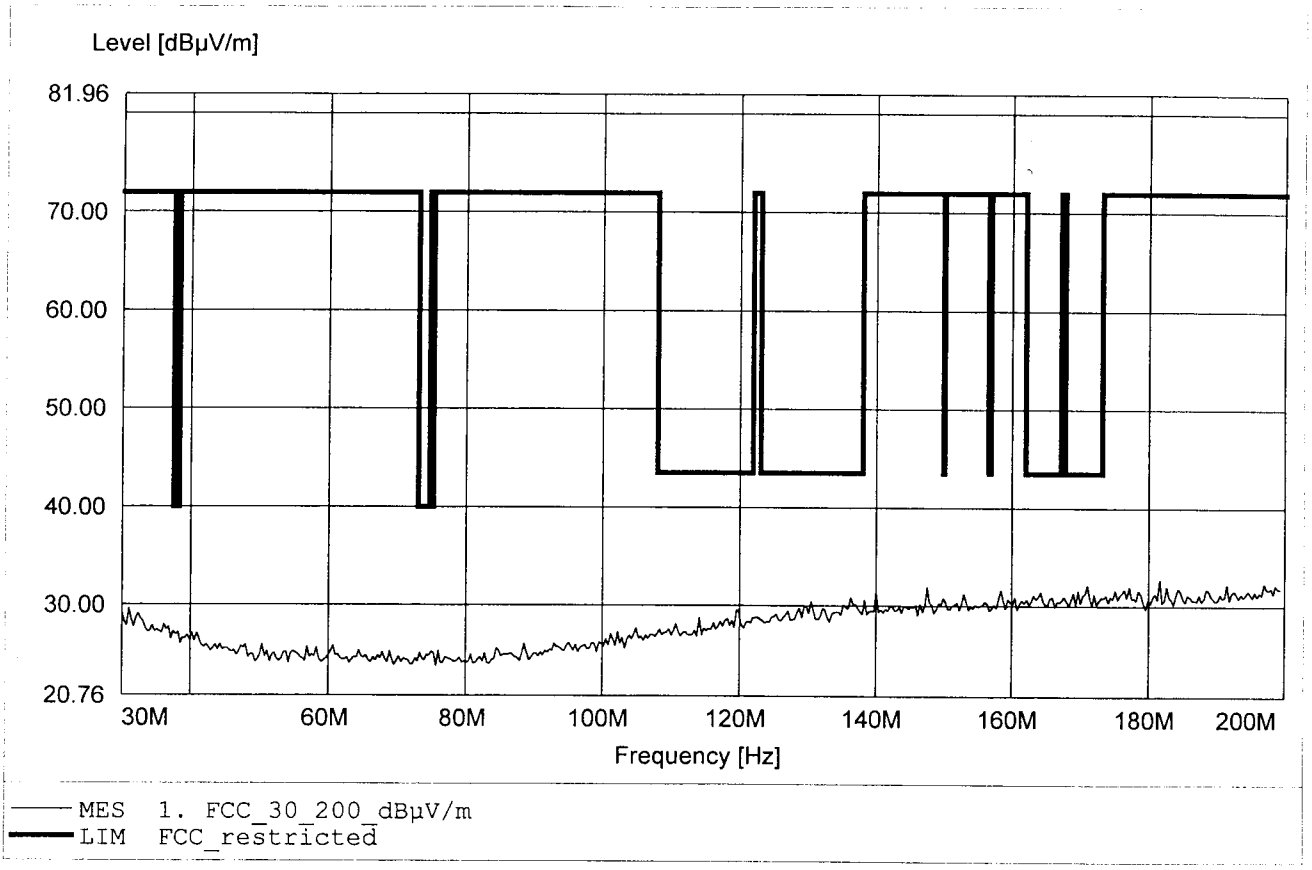
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq:193.186MHz Emax:32.24dBµV/m RBW:100KHz



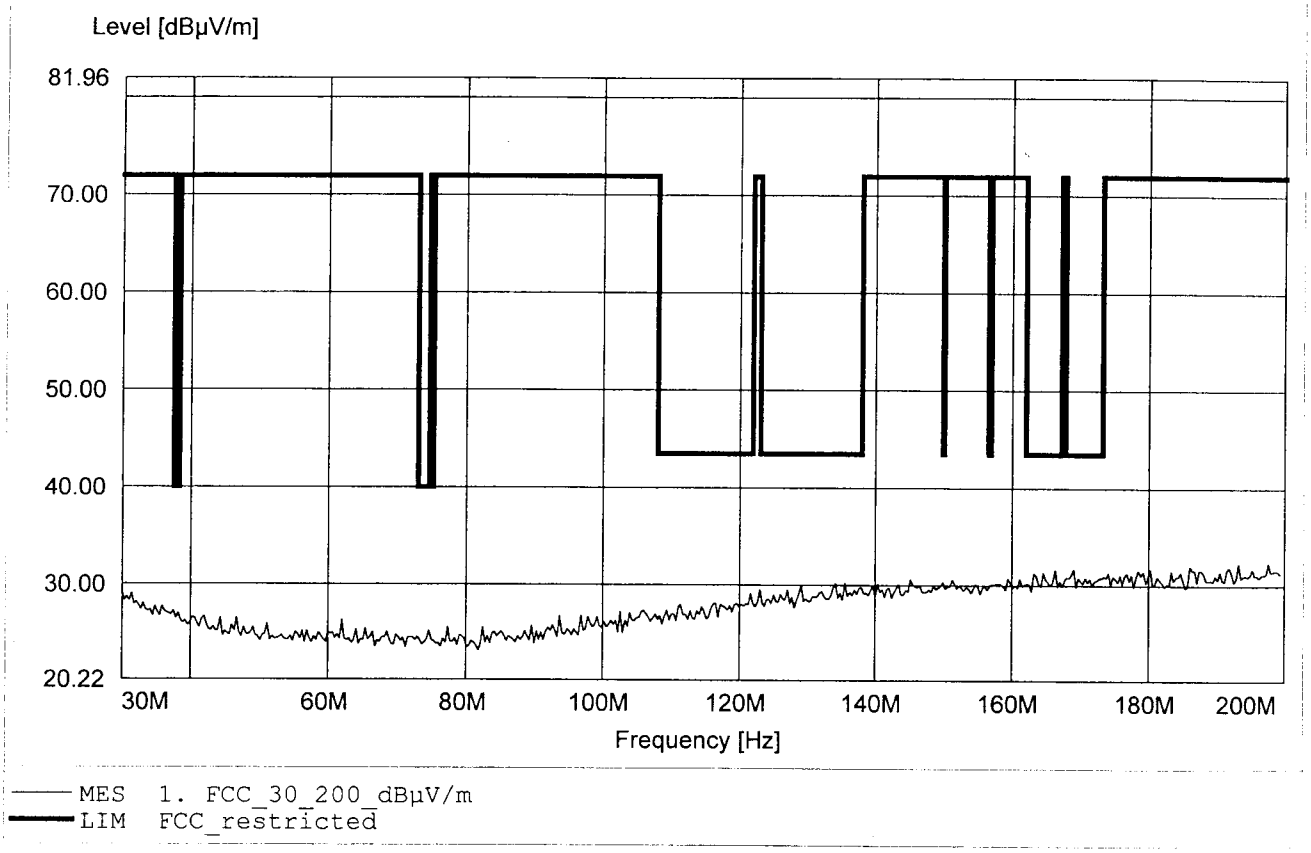
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq:181.603MHz Emax:32.69dBµV/m RBW:100KHz



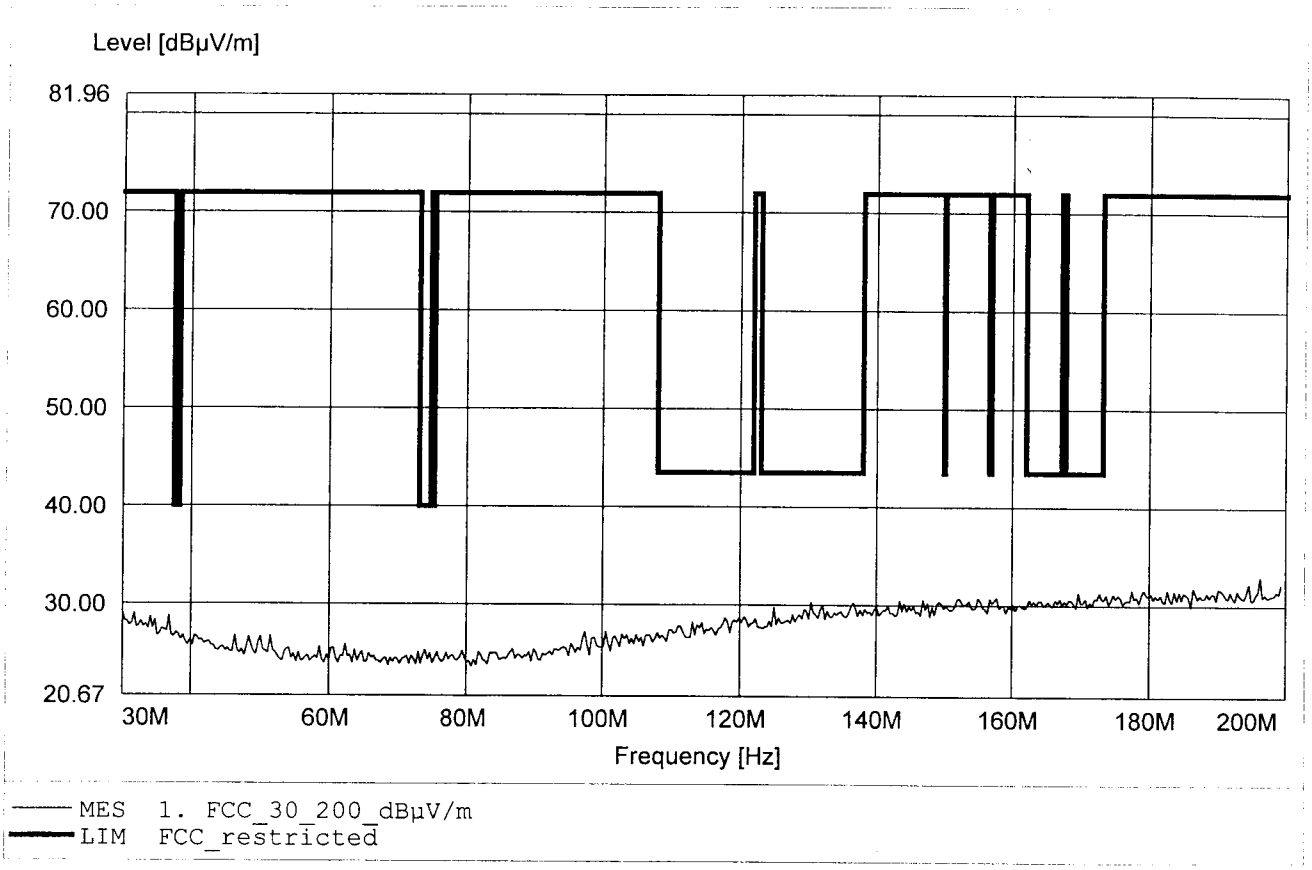
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq:197.615MHz Emax:32.39dBµV/m RBW:100KHz



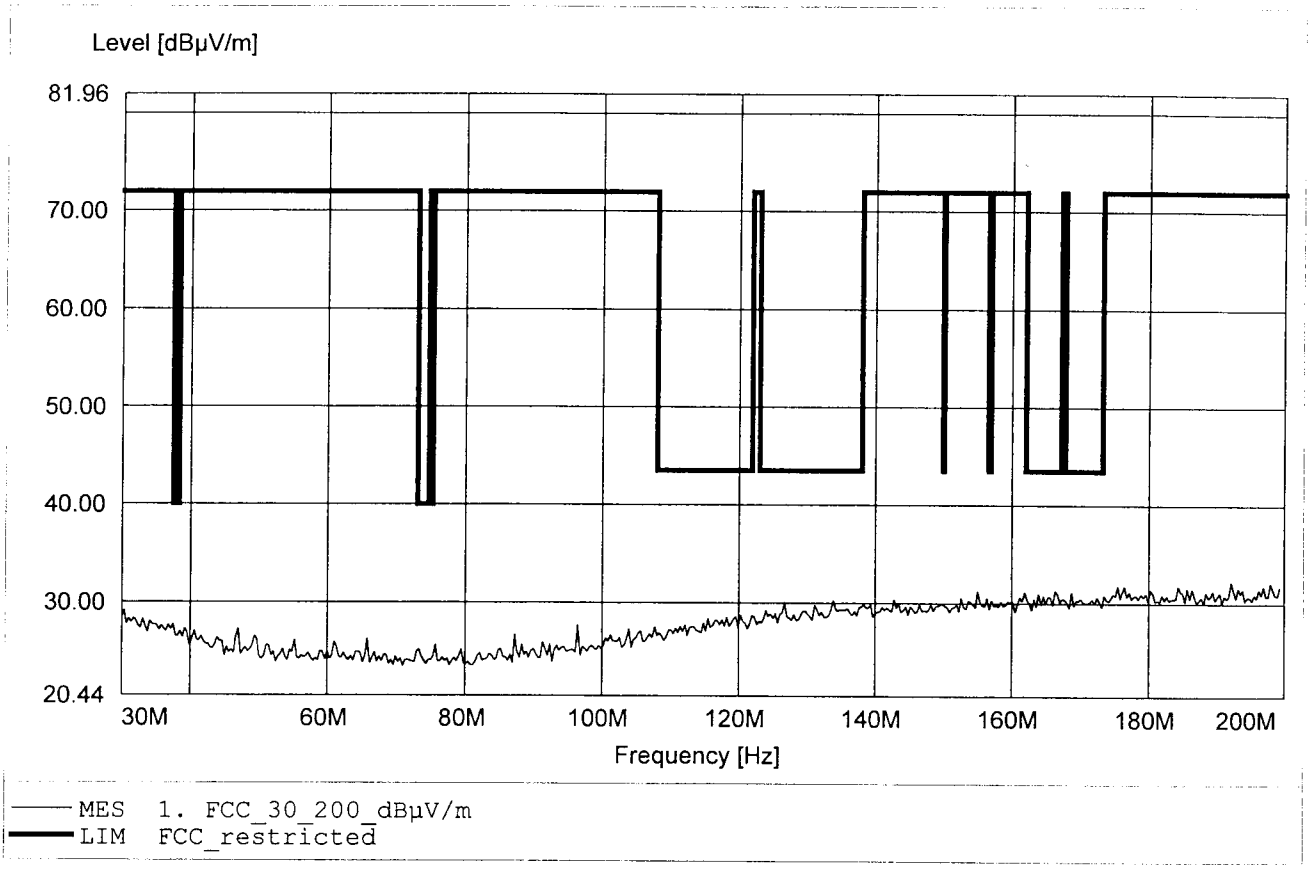
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq:196.253MHz Emax:32.94dBµV/m RBW:100KHz



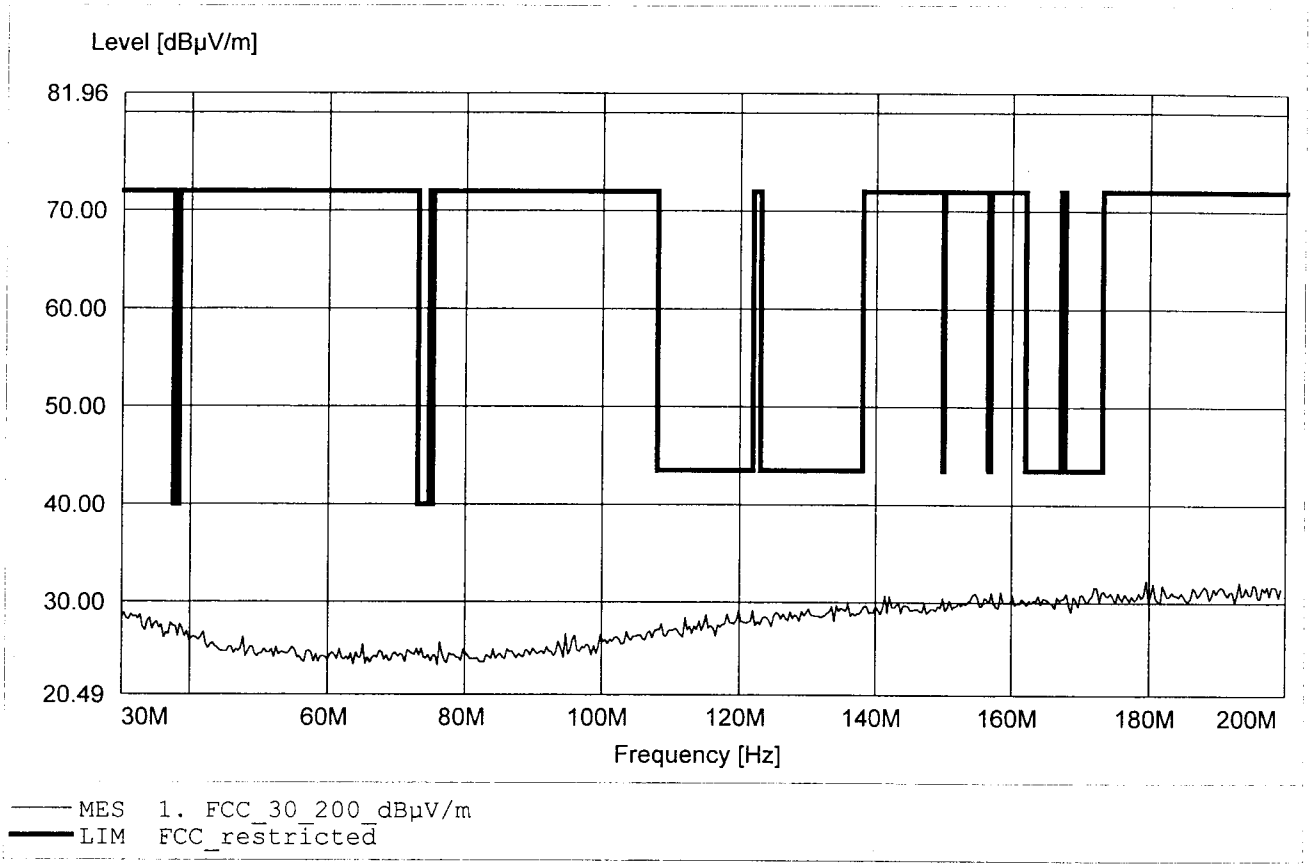
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq:192.164MHz Emax:32.23dBµV/m RBW:100KHz



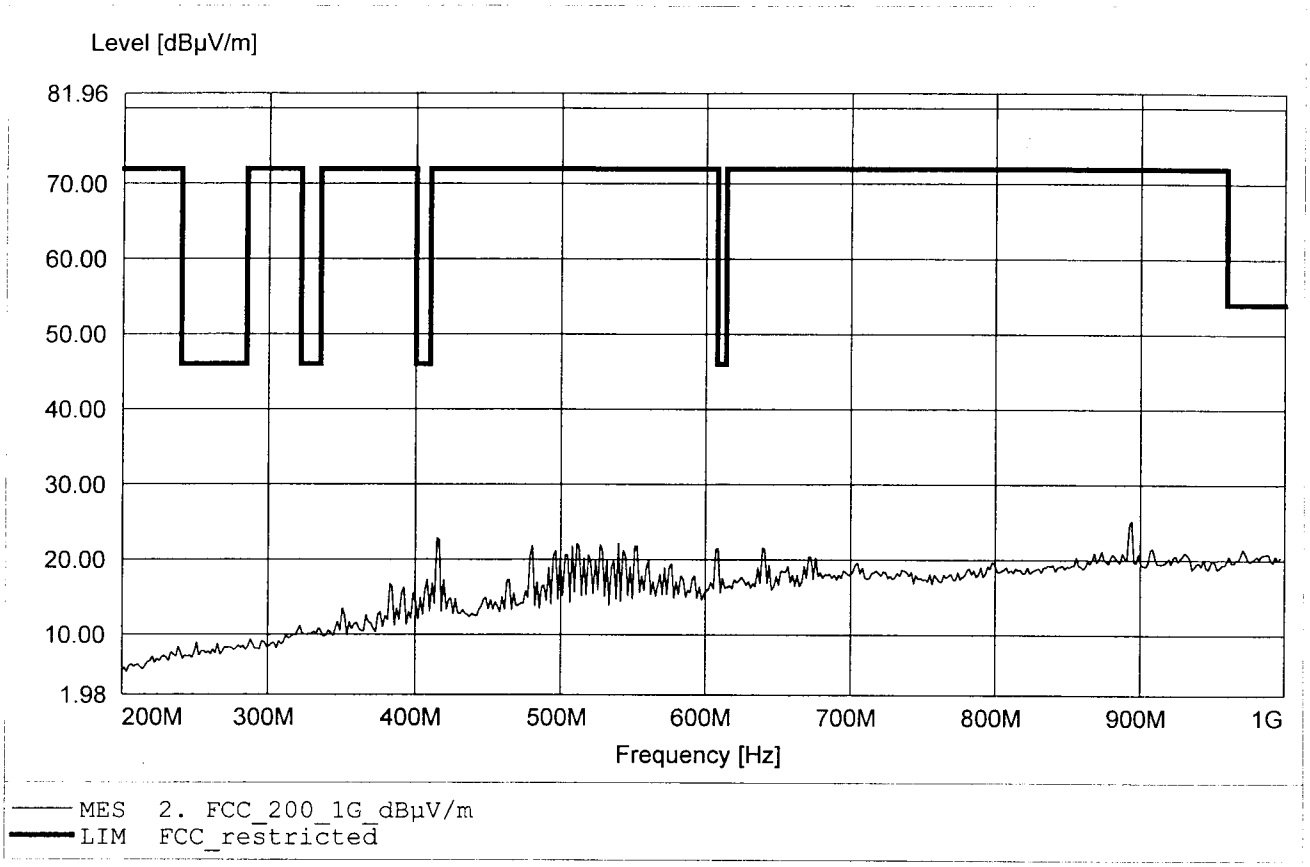
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq:179.559MHz Emax:32.28dBµV/m RBW:100KHz



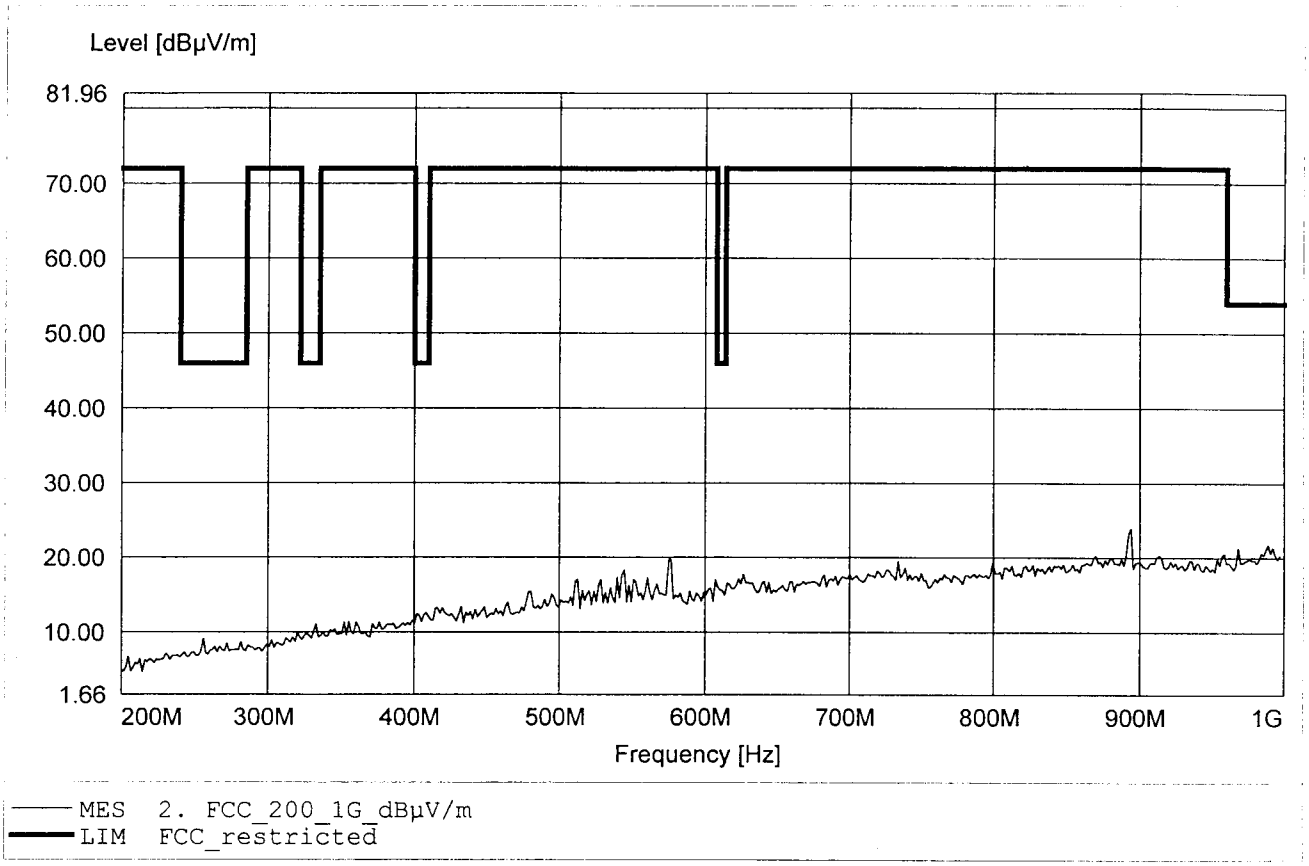
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL 223, amplif.
Comment 2:	Freq:894.188MHz Emax:25.23dBµV/m RBW:100KHz



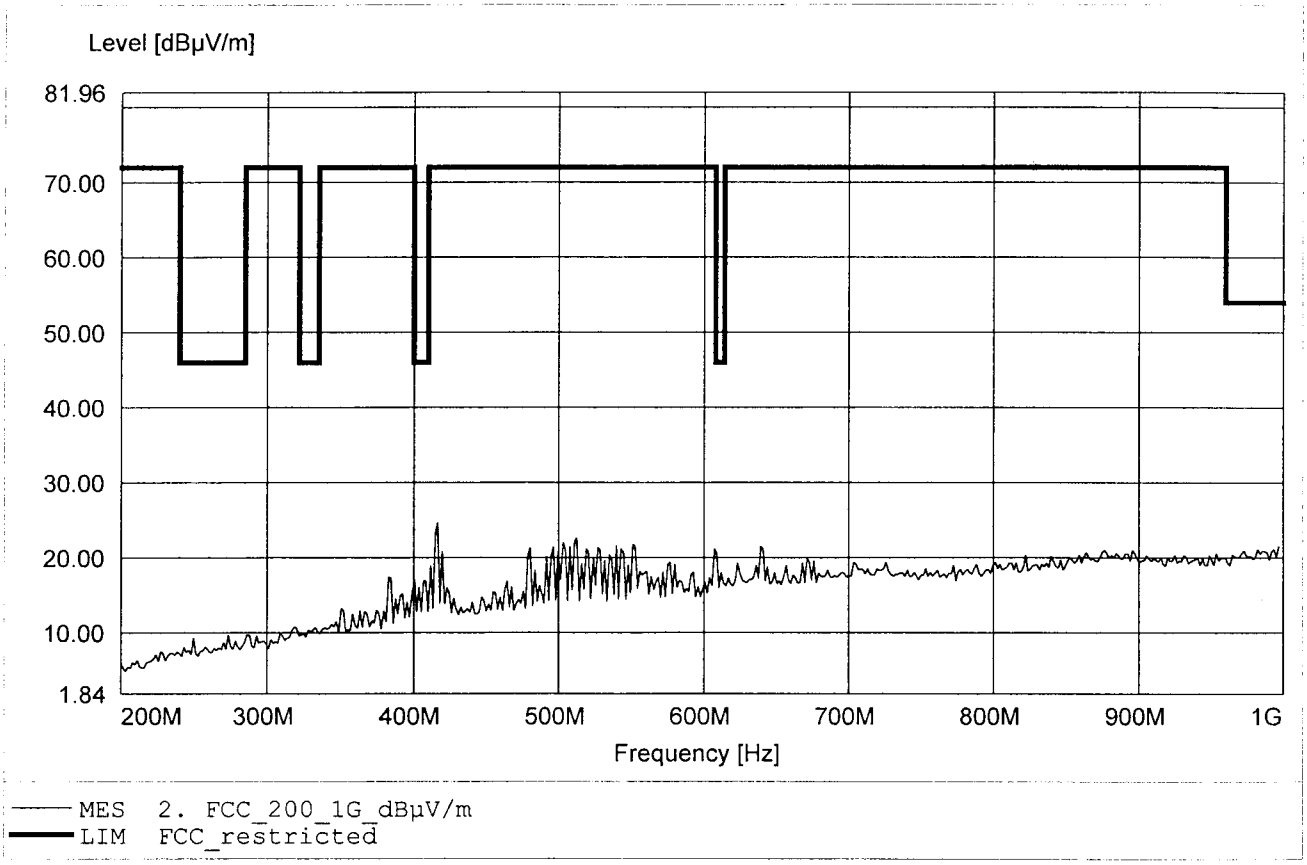
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL 223, amplif.
Comment 2:	Freq:894.188MHz Emax:23.96dBµV/m RBW:100KHz



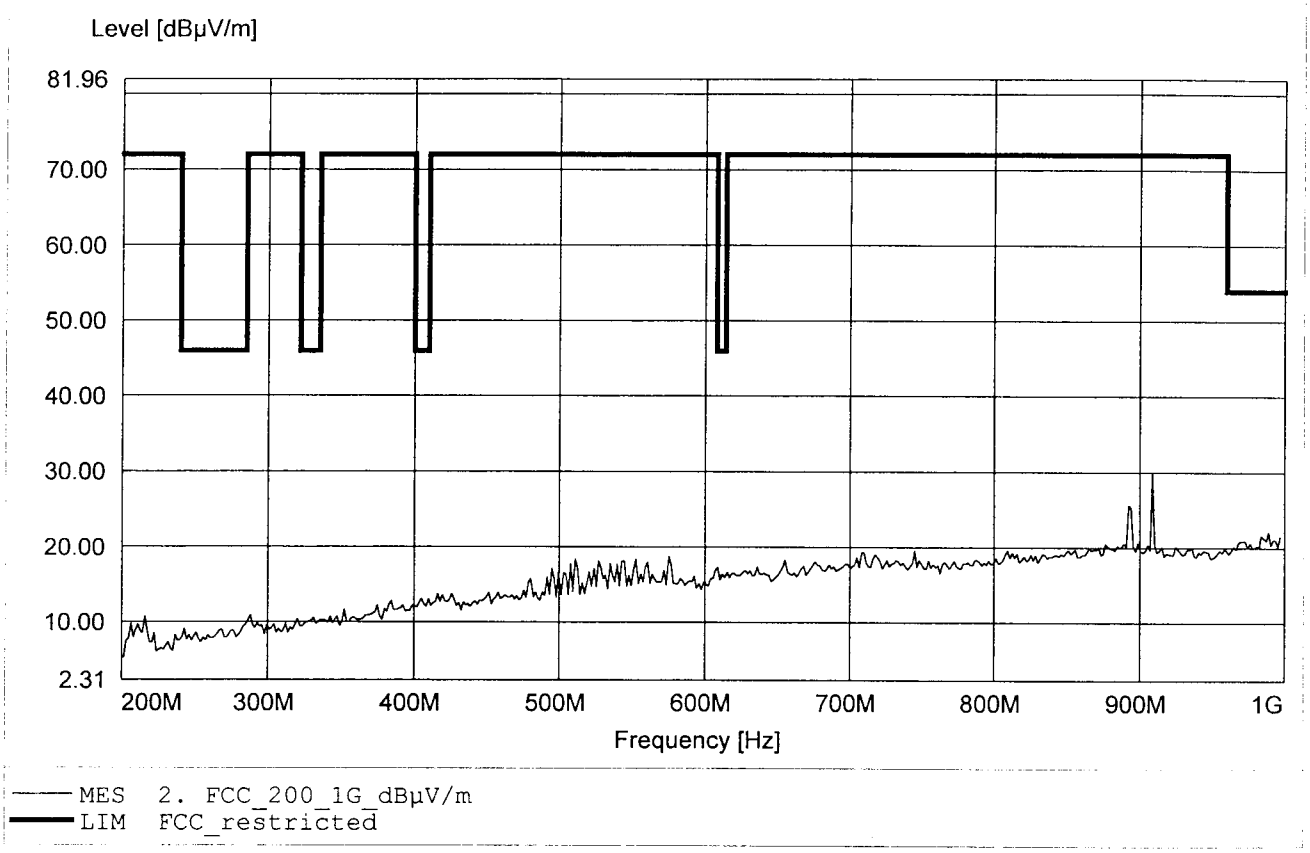
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL 223, amplif.
Comment 2:	Freq:416.433MHz Emax:24.61dBµV/m RBW:100KHz



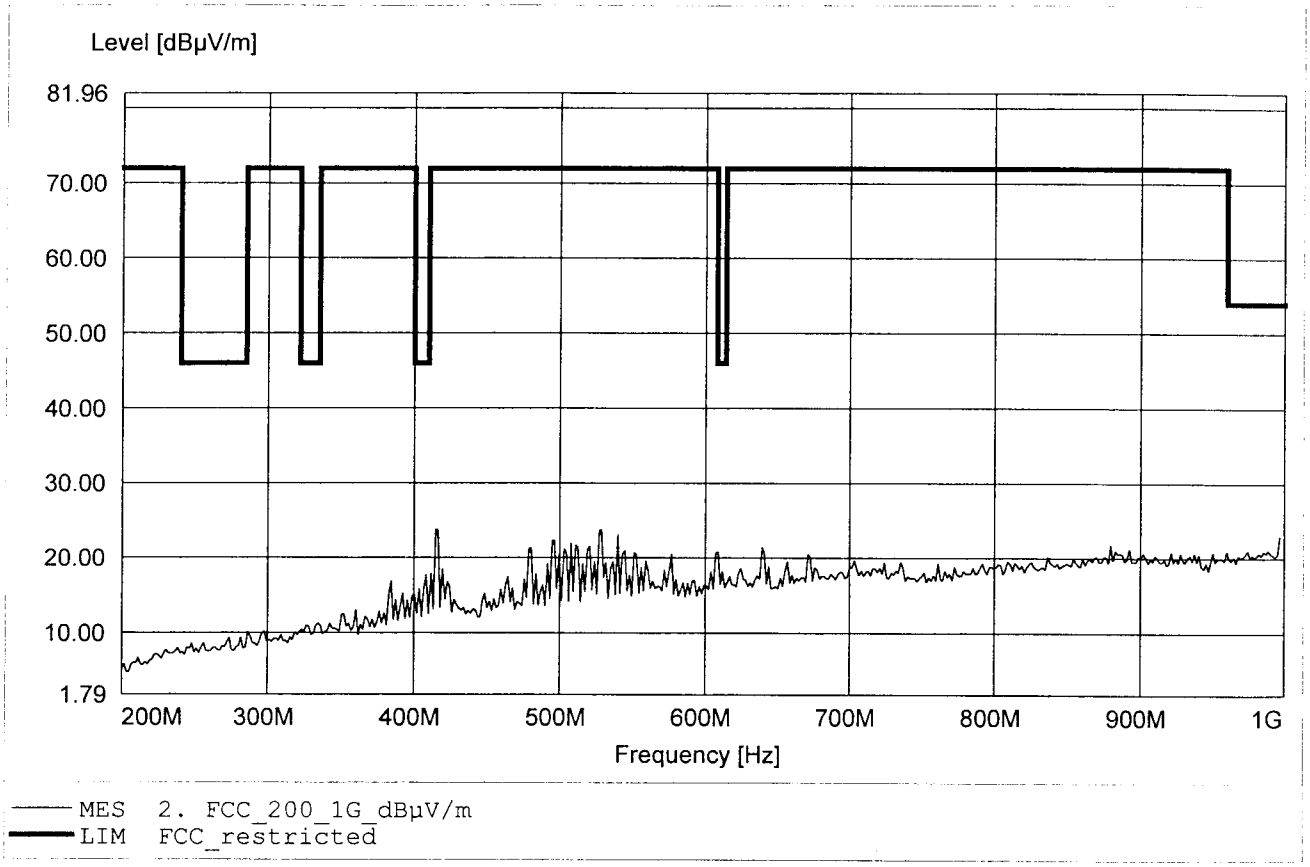
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL 223, amplif.
Comment 2:	Freq:908.617MHz Emax:29.97dBµV/m RBW:100KHz



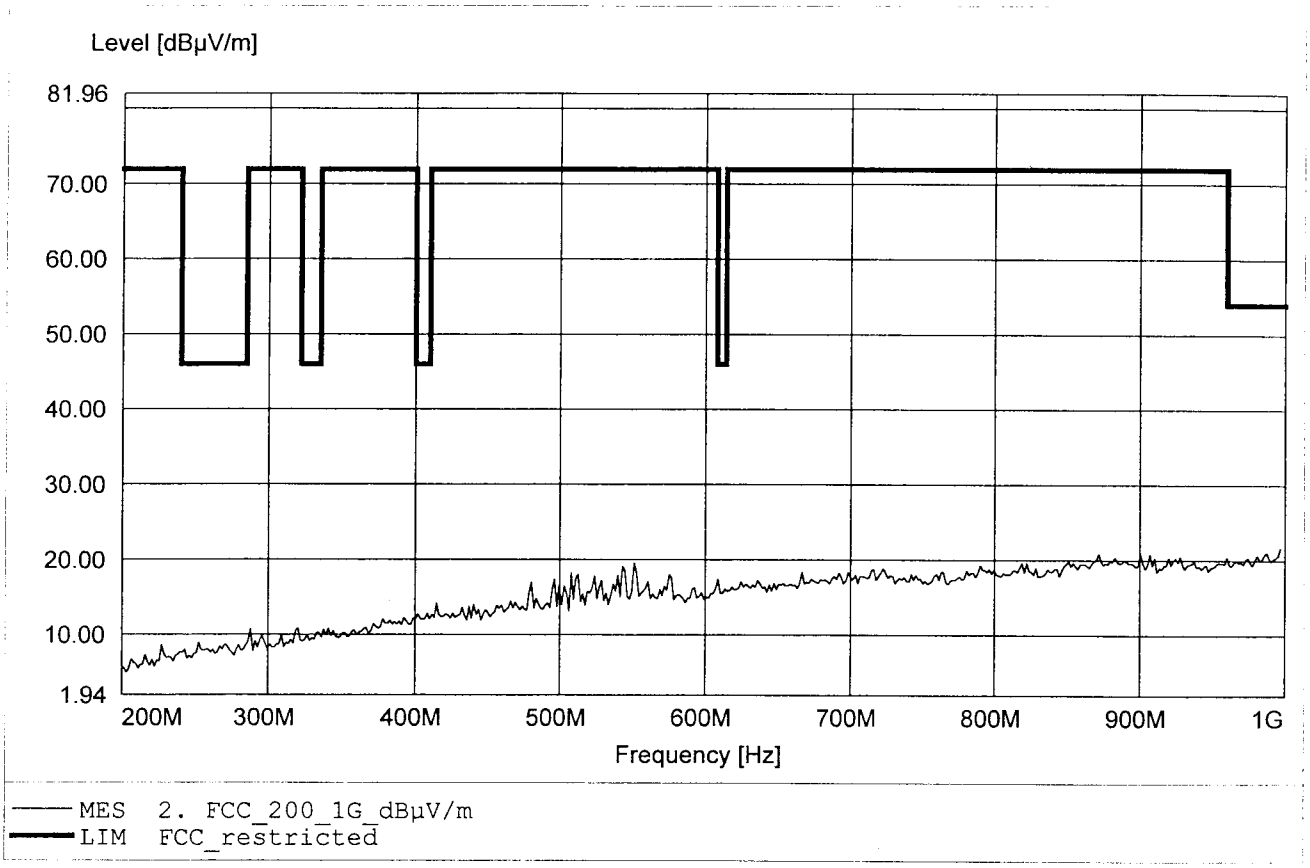
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL 223, amplif.
Comment 2:	Freq:414.830MHz Emax:23.80dBµV/m RBW:100KHz



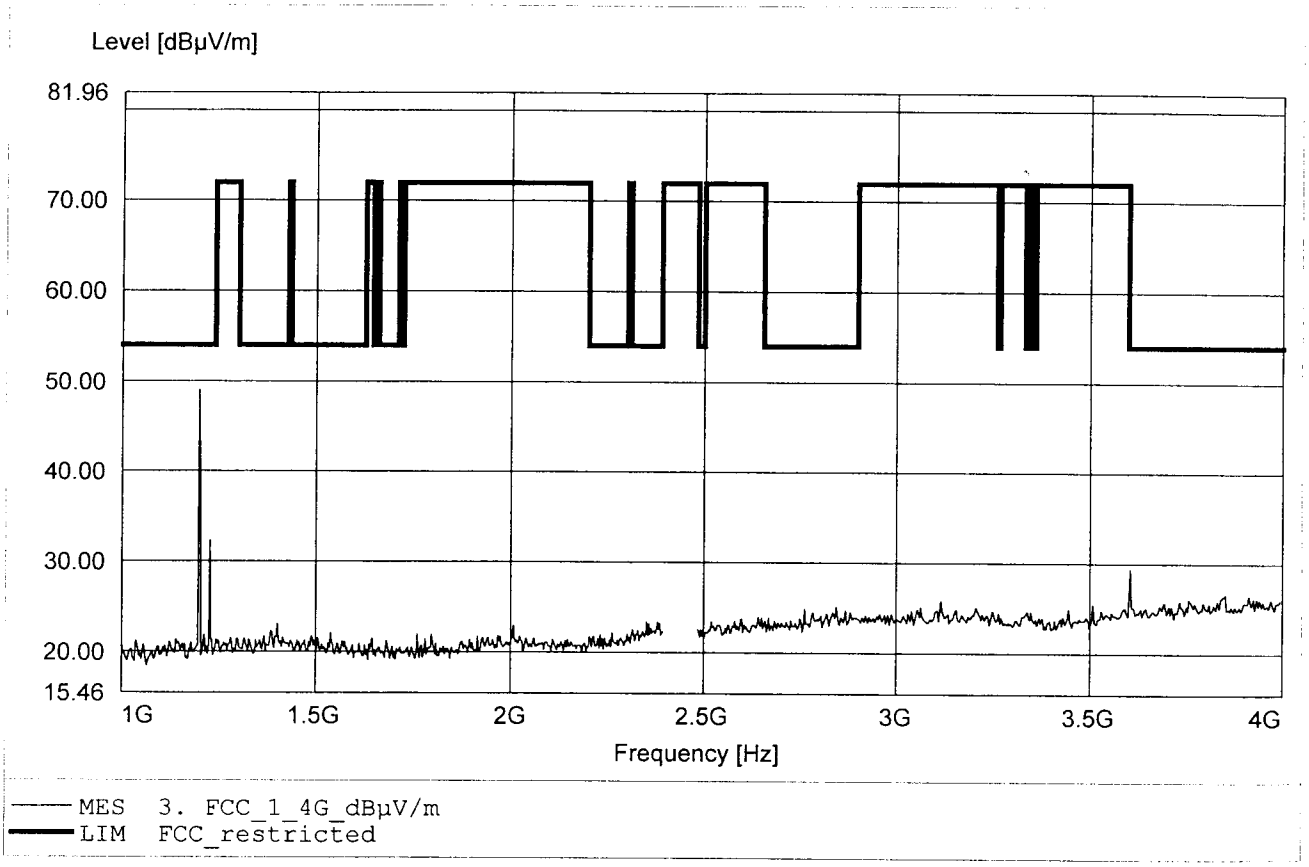
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL 223, amplif.
Comment 2:	Freq:996.794MHz Emax:21.70dBµV/m RBW:100KHz



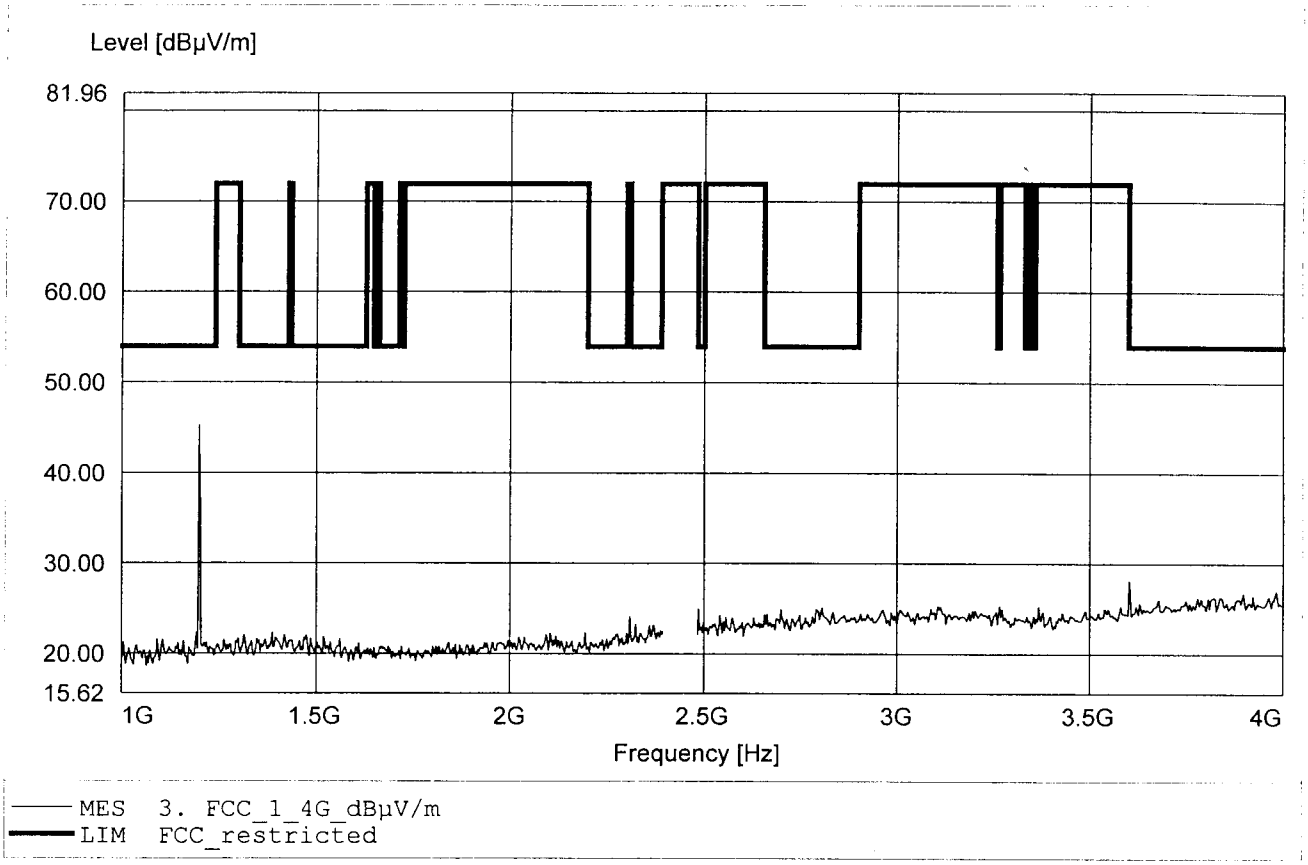
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:1.199GHz Emax:49.06dBµV/m RBW:1MHz



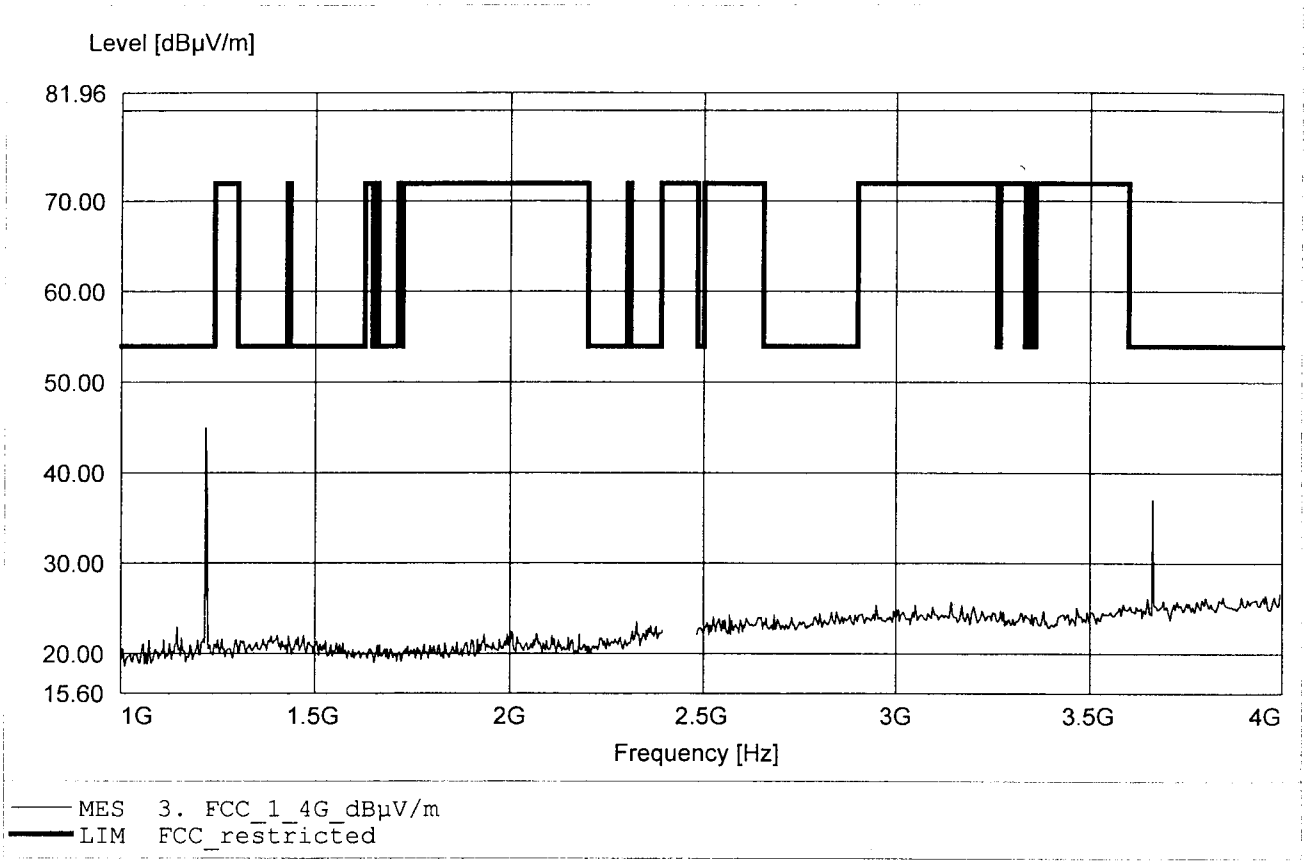
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:1.199GHz Emax:45.34dBµV/m RBW:1MHz



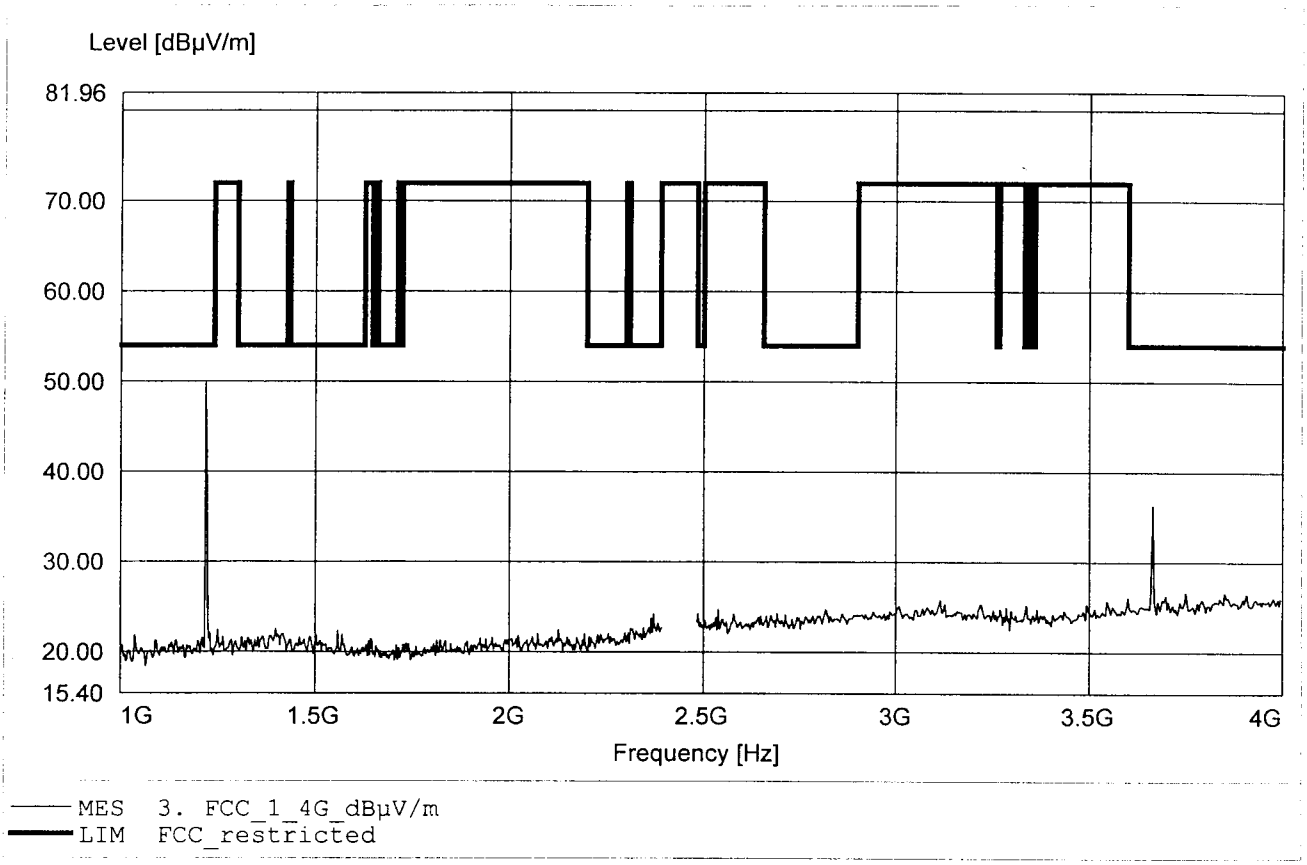
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:1.219GHz Emax:44.99dBµV/m RBW:1MHz



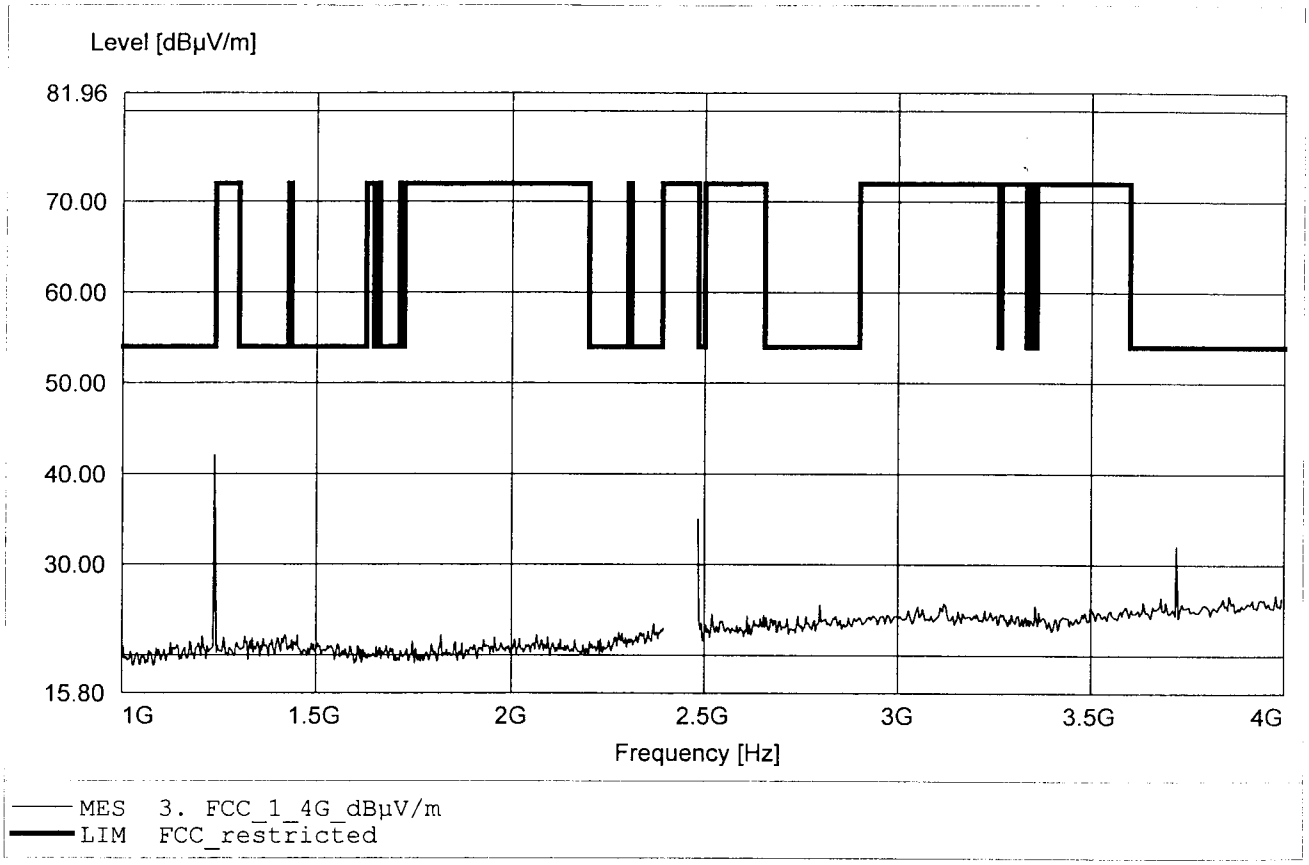
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:1.219GHz Emax:49.76dBµV/m RBW:1MHz



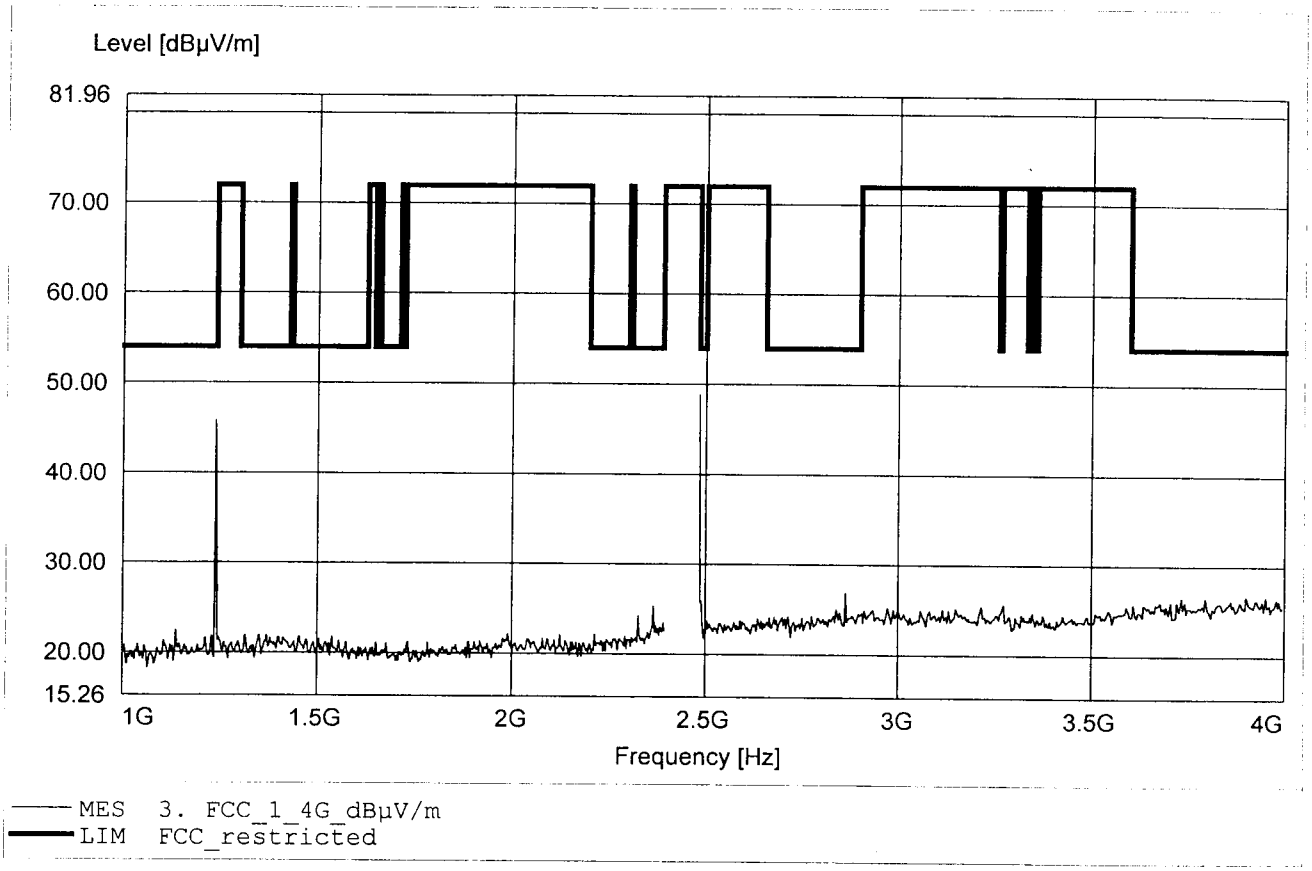
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:1.238GHz Emax:42.07dBµV/m RBW:1MHz



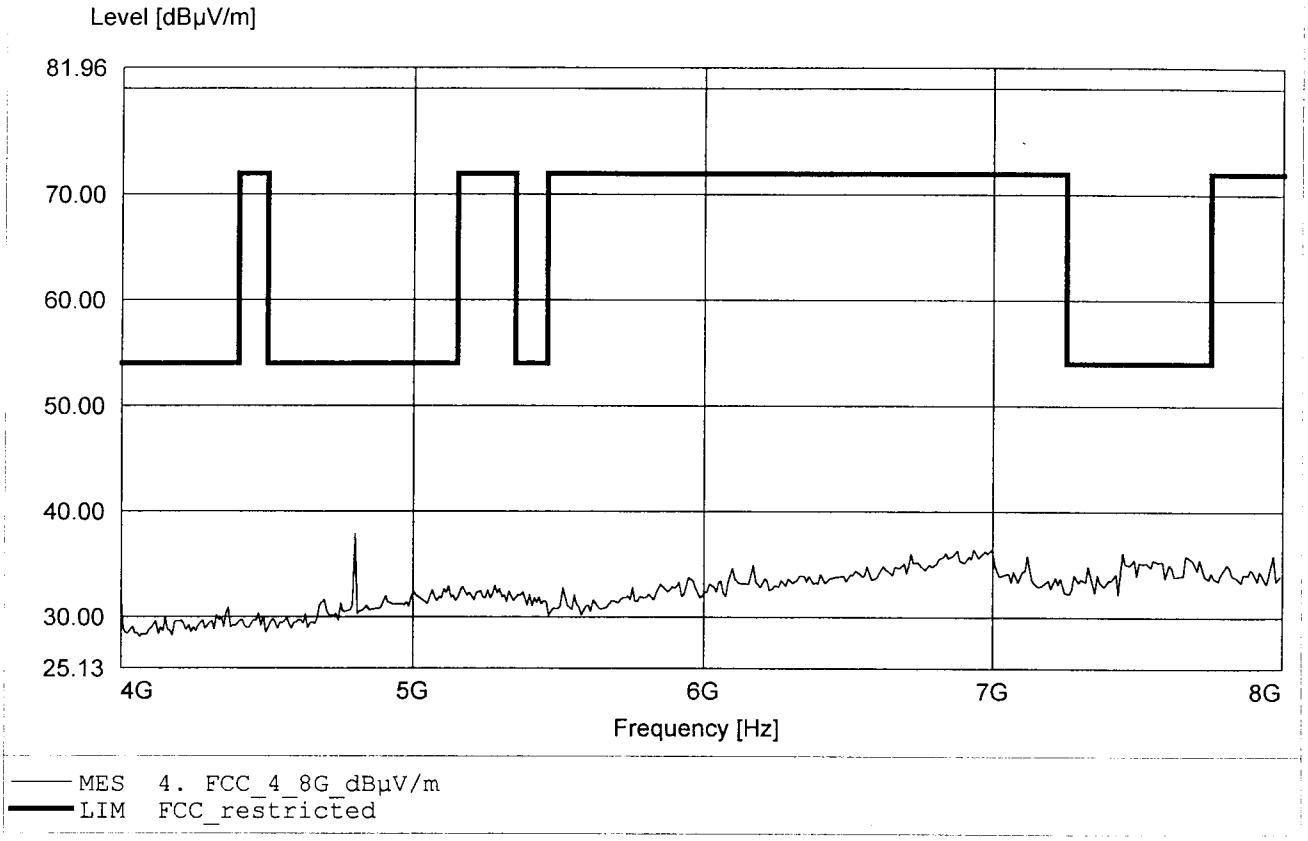
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:2.484GHz Emax:48.87dBµV/m RBW:1MHz



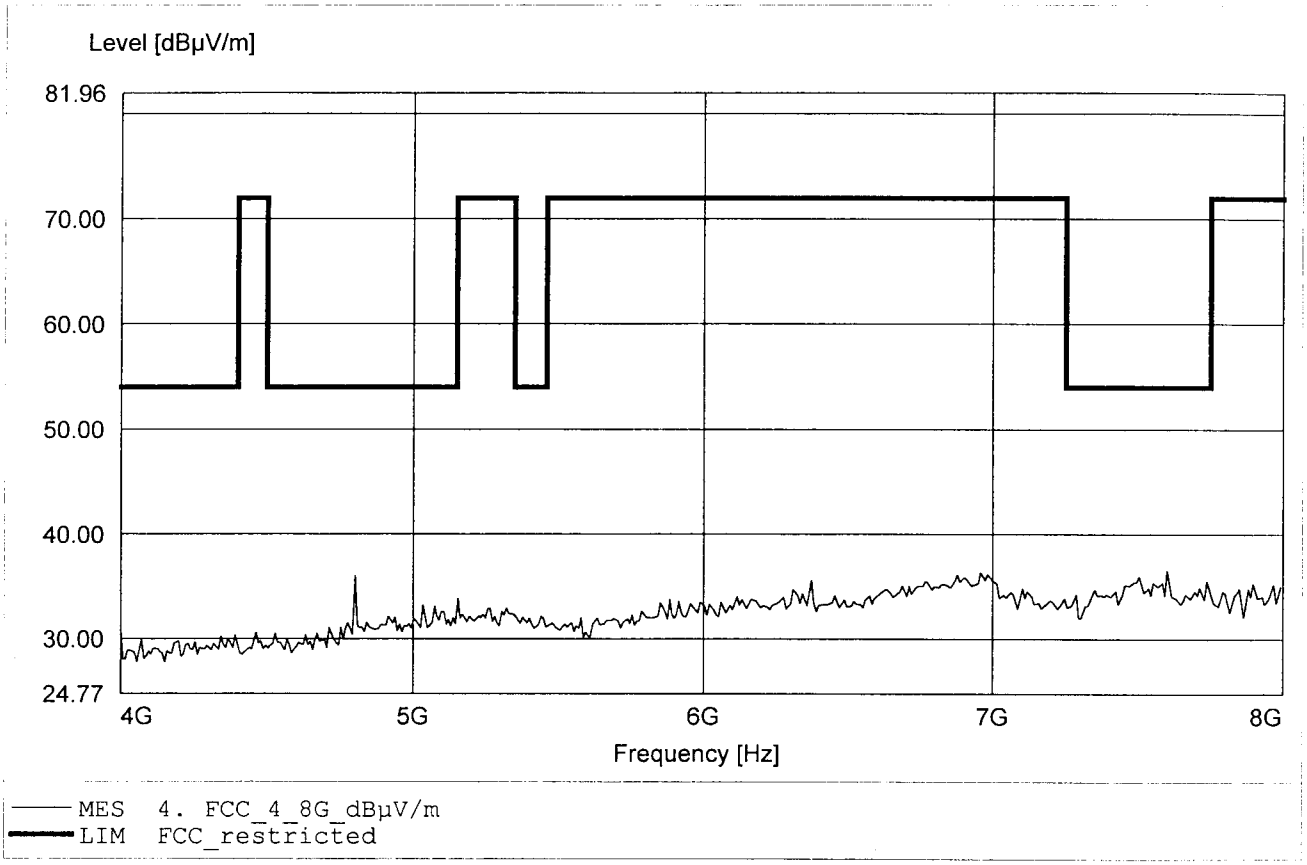
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:4.802GHz Emax:37.88dBµV/m RBW:1MHz



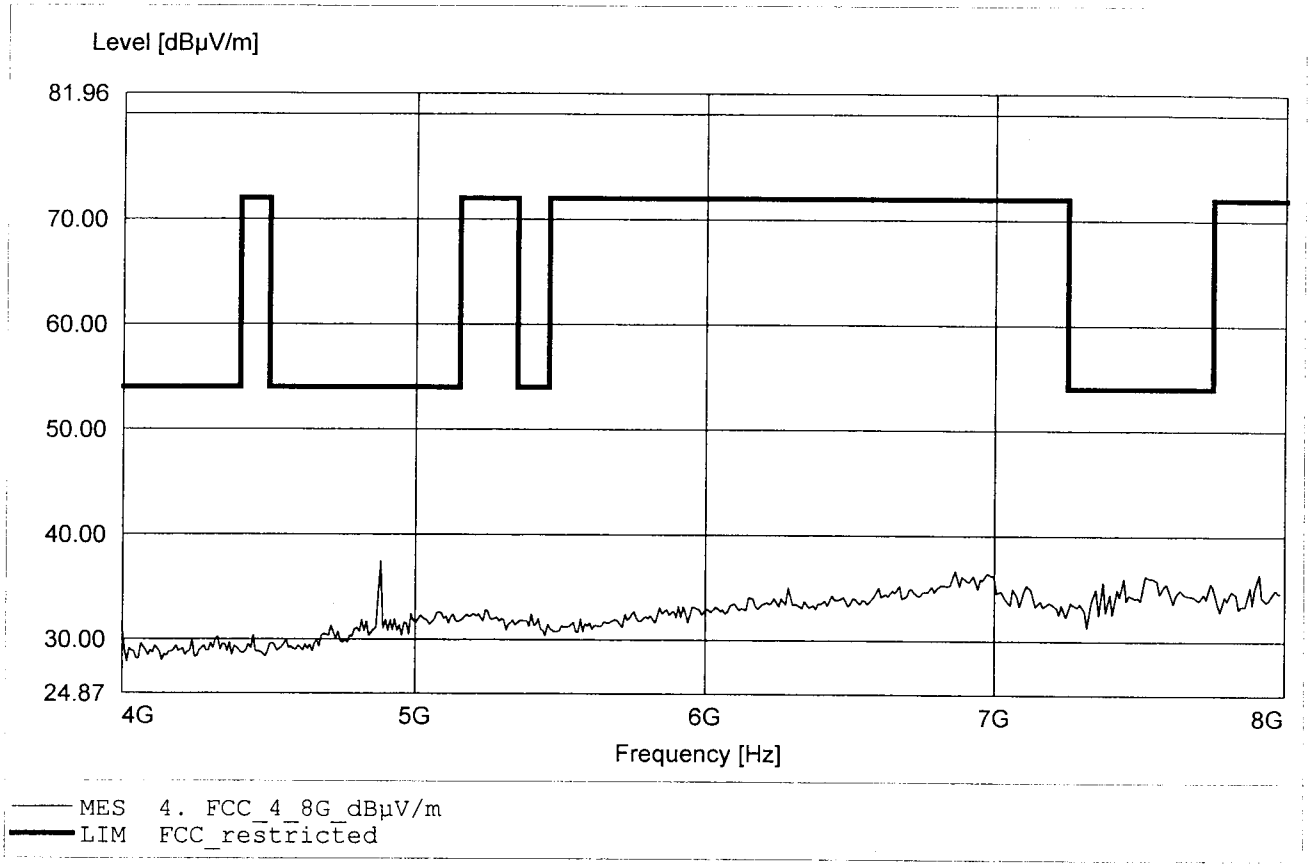
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:7.599GHz Emax:36.55dBµV/m RBW:1MHz



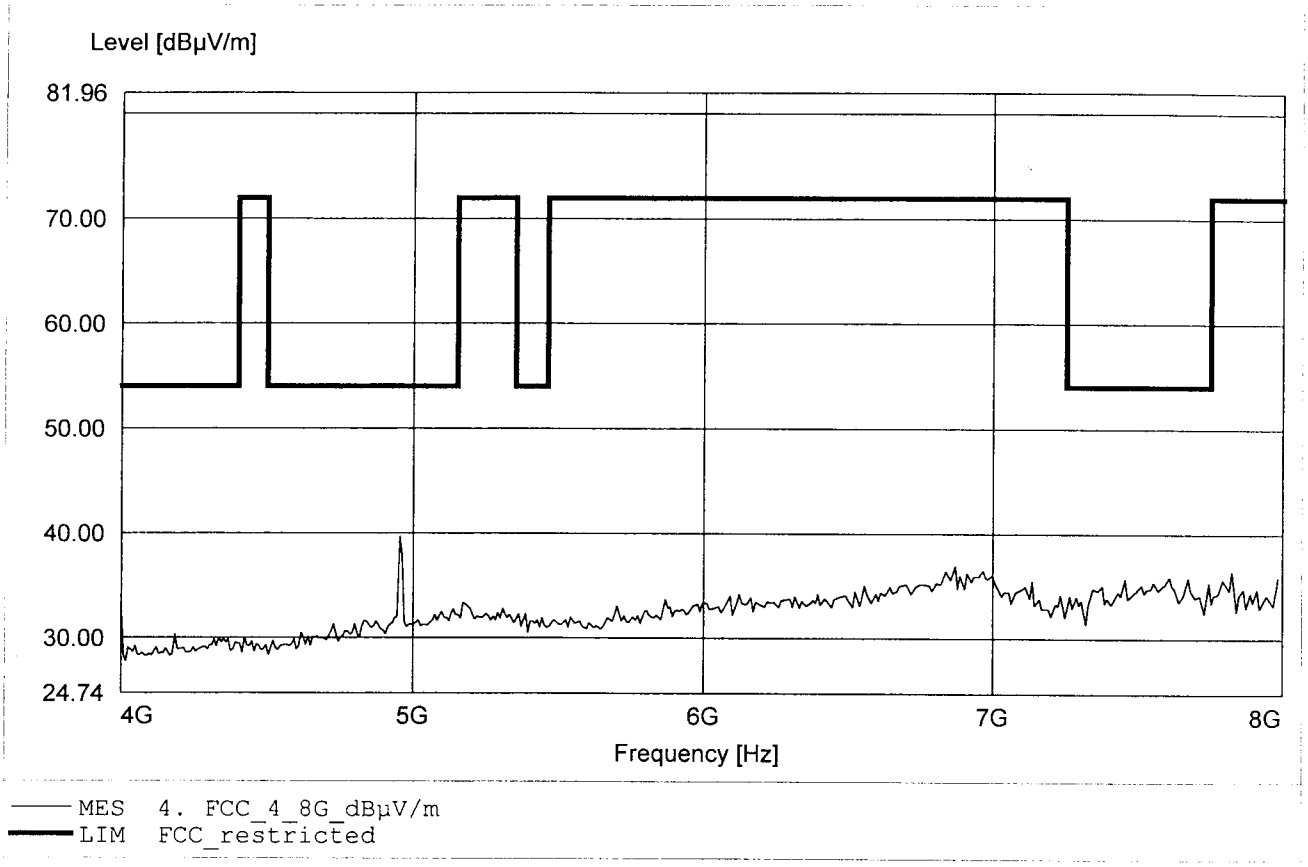
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:4.882GHz Emax:37.45dBµV/m RBW:1MHz



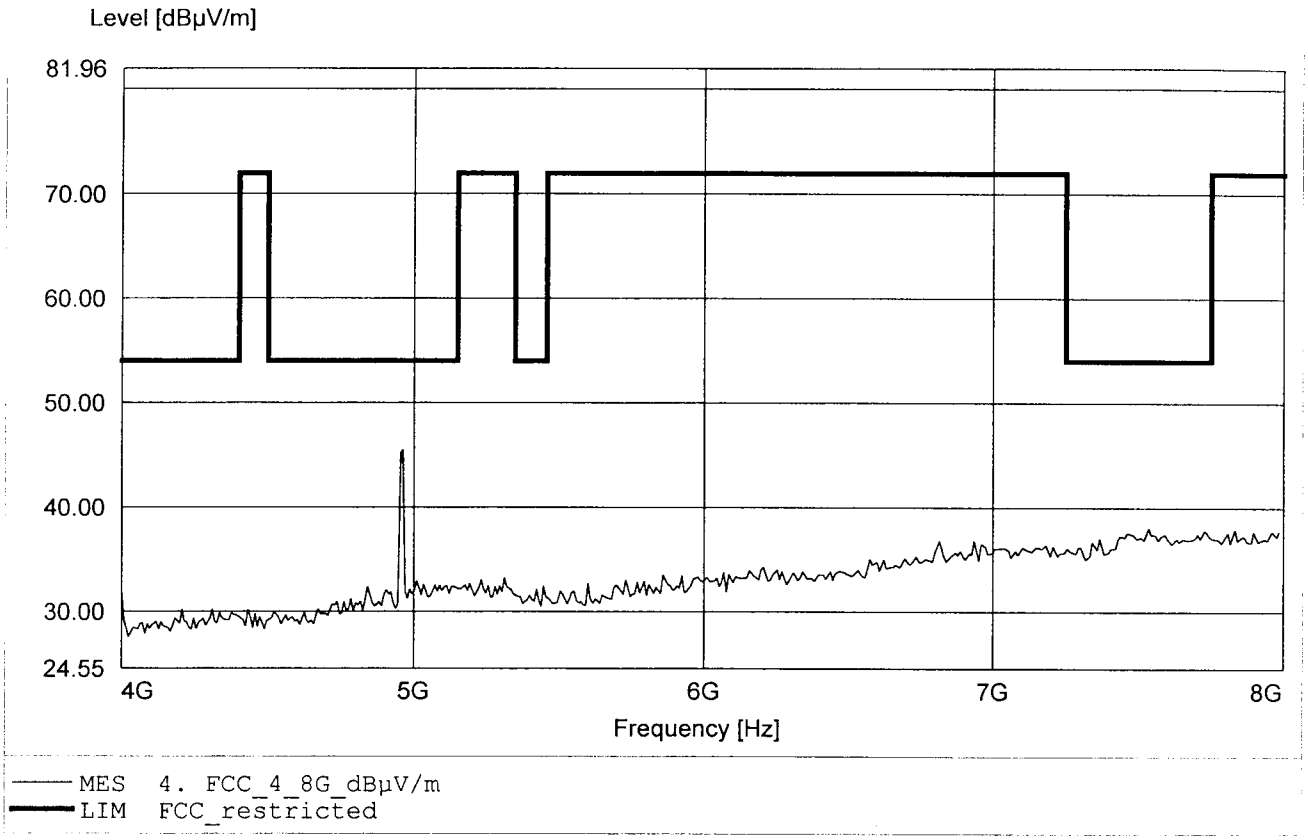
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:4.954GHz Emax:39.68dBµV/m RBW:1MHz



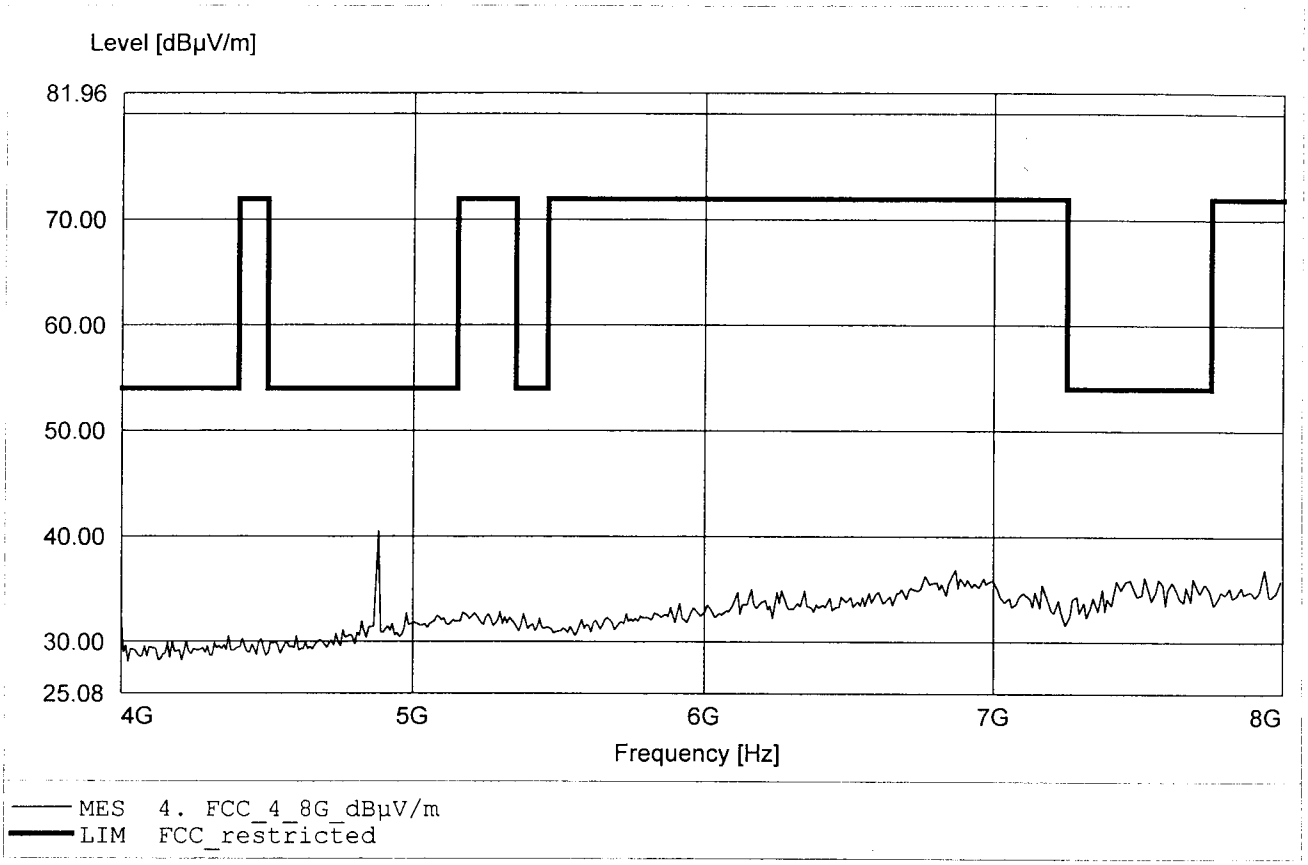
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:4.962GHz Emax:45.49dBµV/m RBW:1MHz



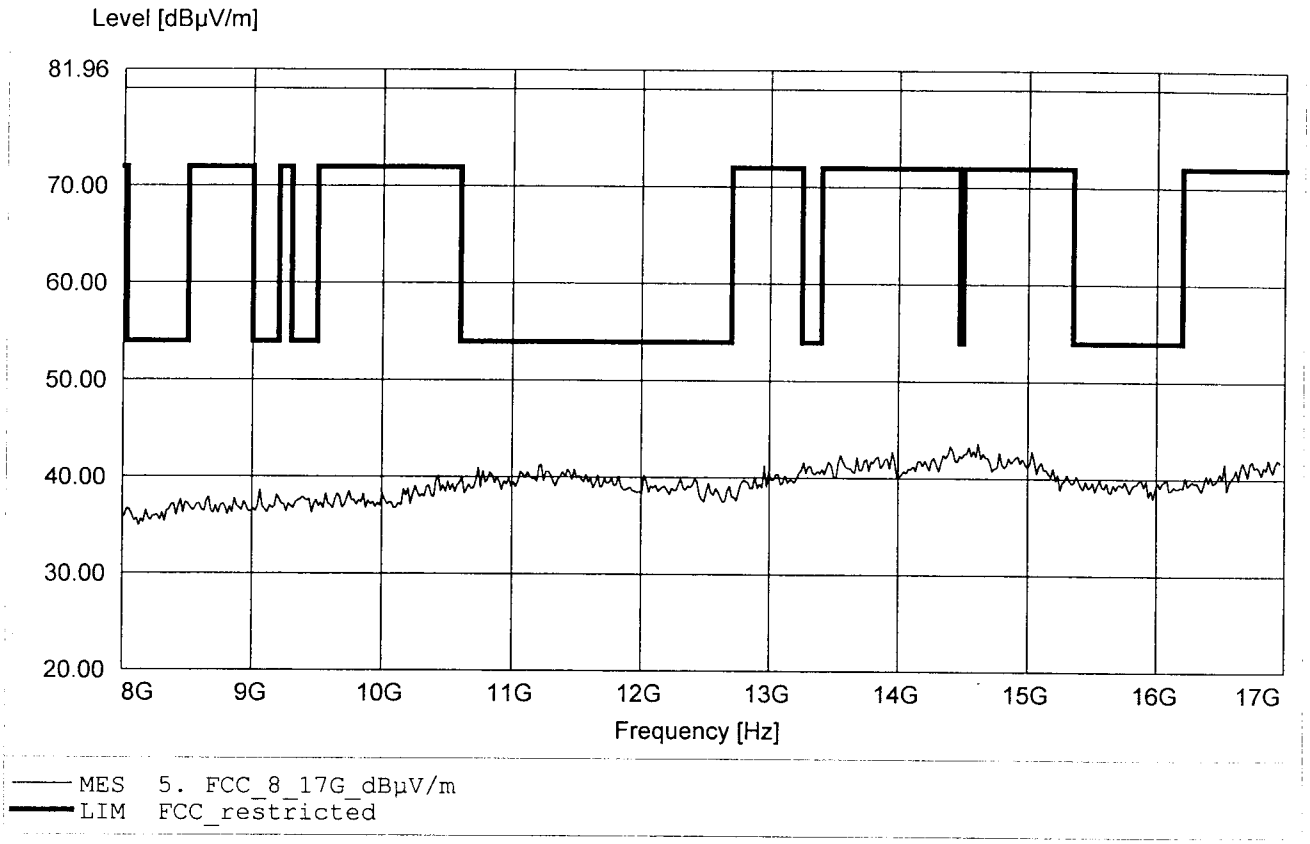
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:4.882GHz Emax:40.47dBµV/m RBW:1MHz



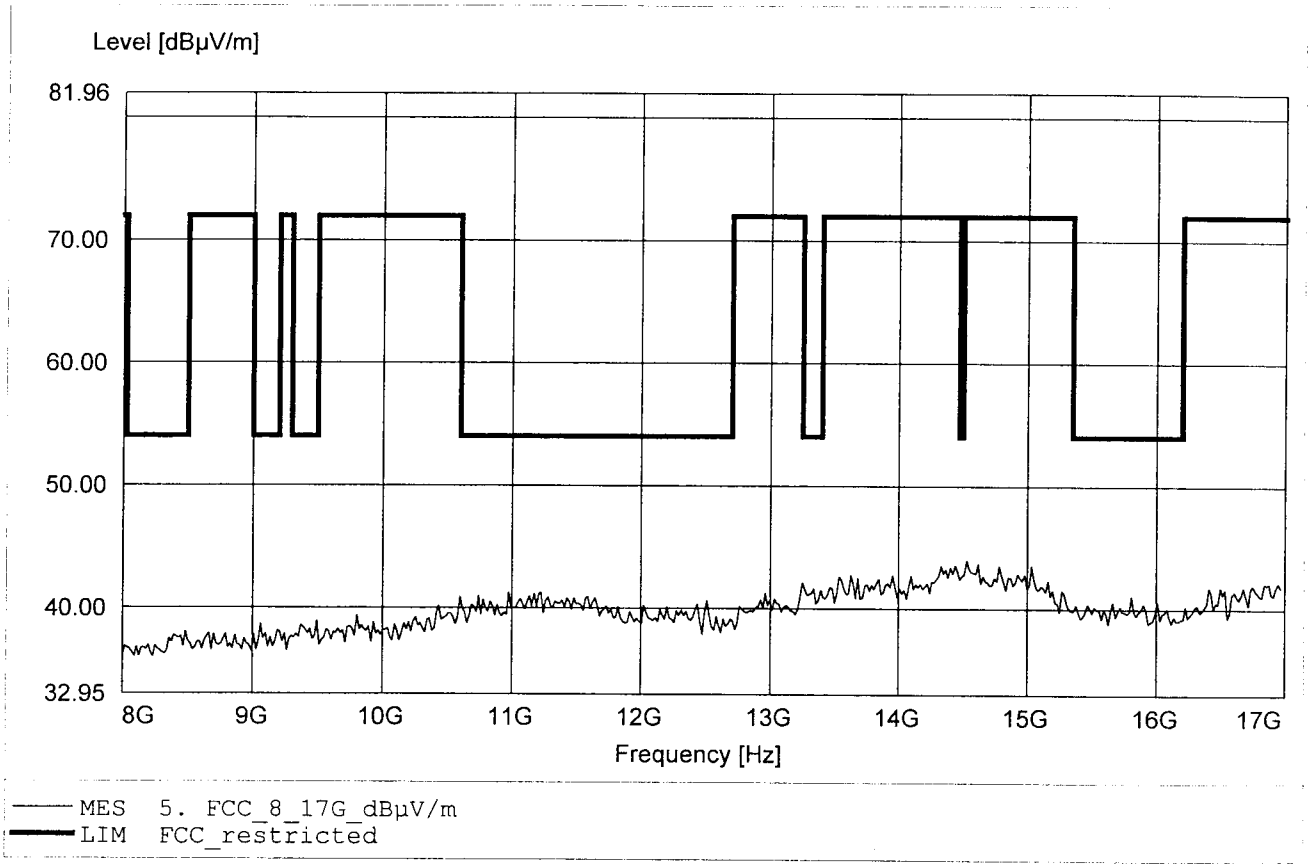
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:14.565GHz Emax:43.75dBµV/m RBW:1MHz



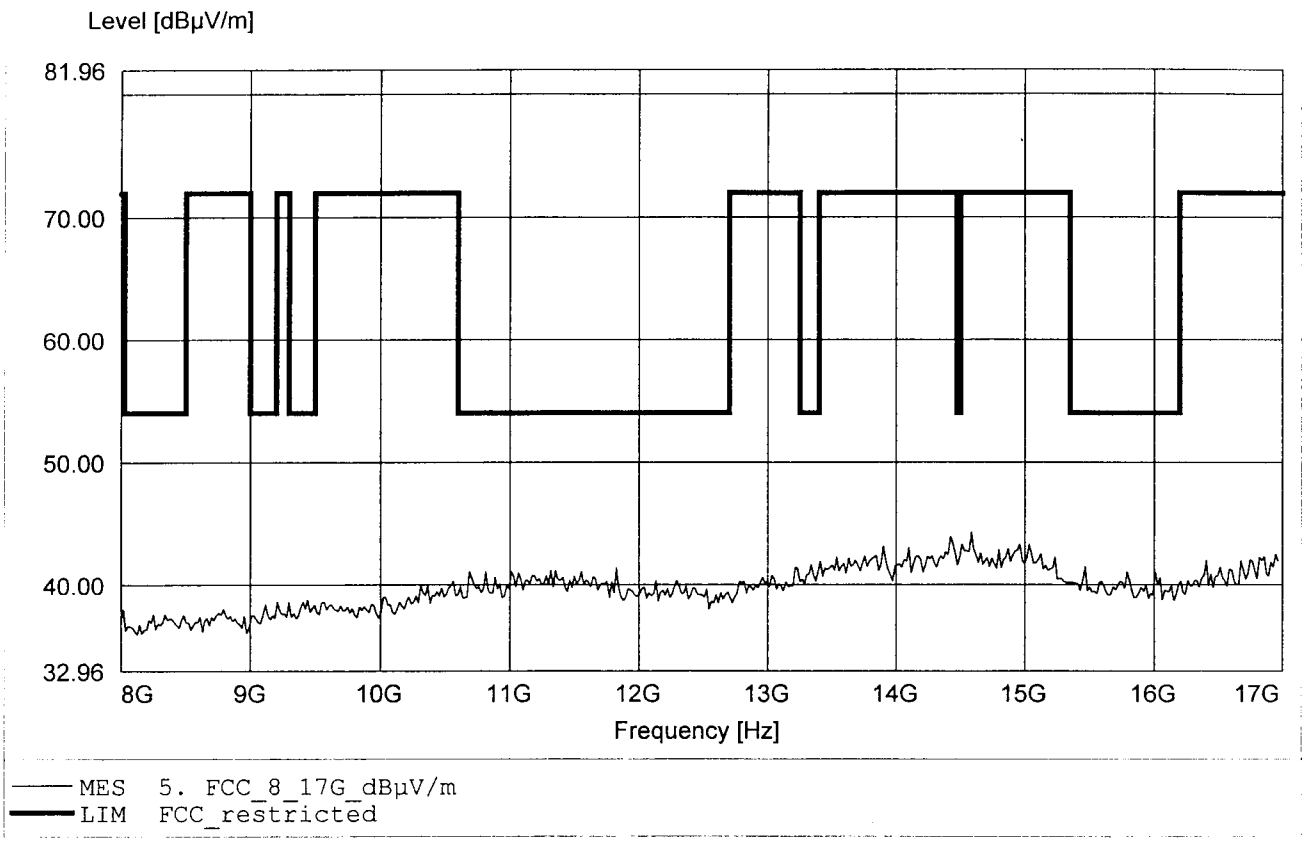
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:14.529GHz Emax:43.98dBµV/m RBW:1MHz



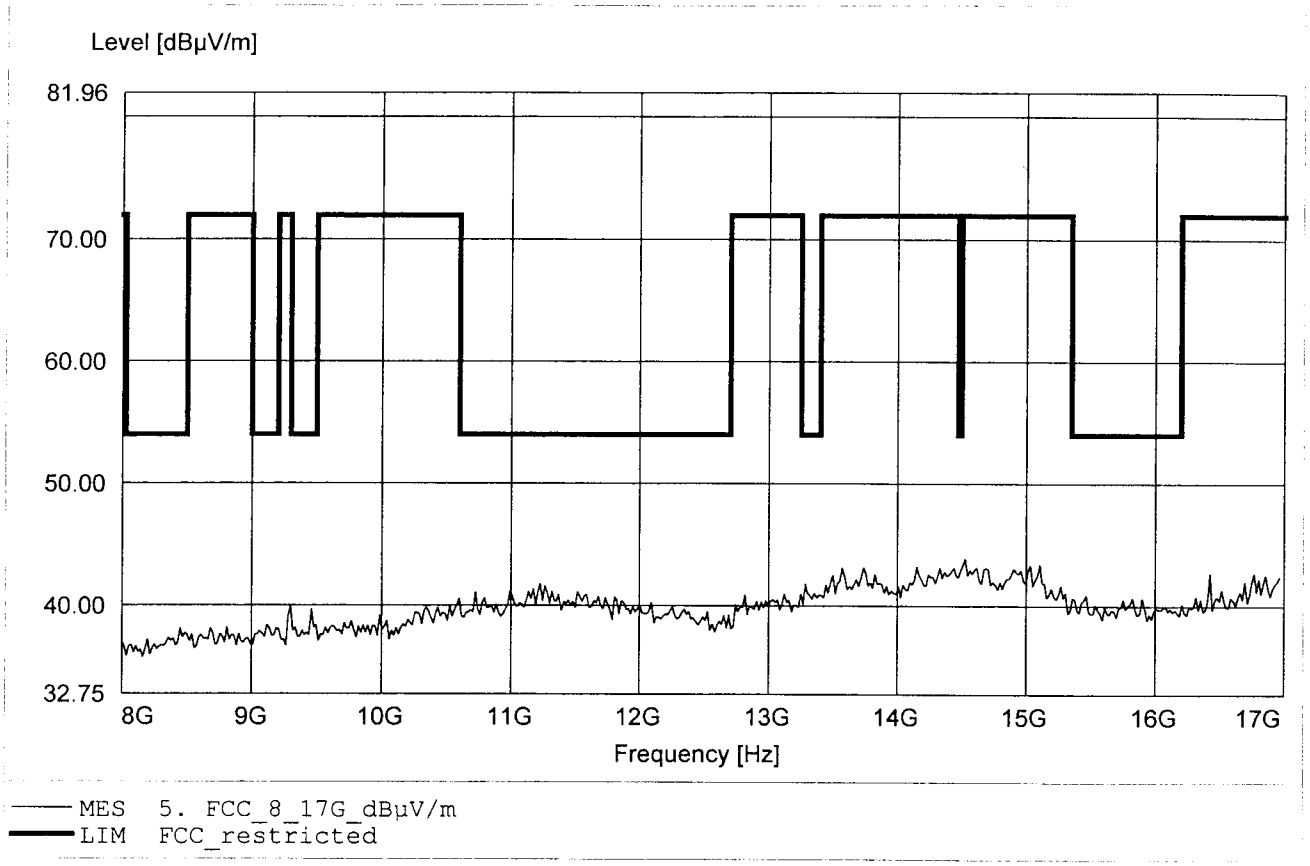
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:14.583GHz Emax:44.30dBµV/m RBW:1MHz



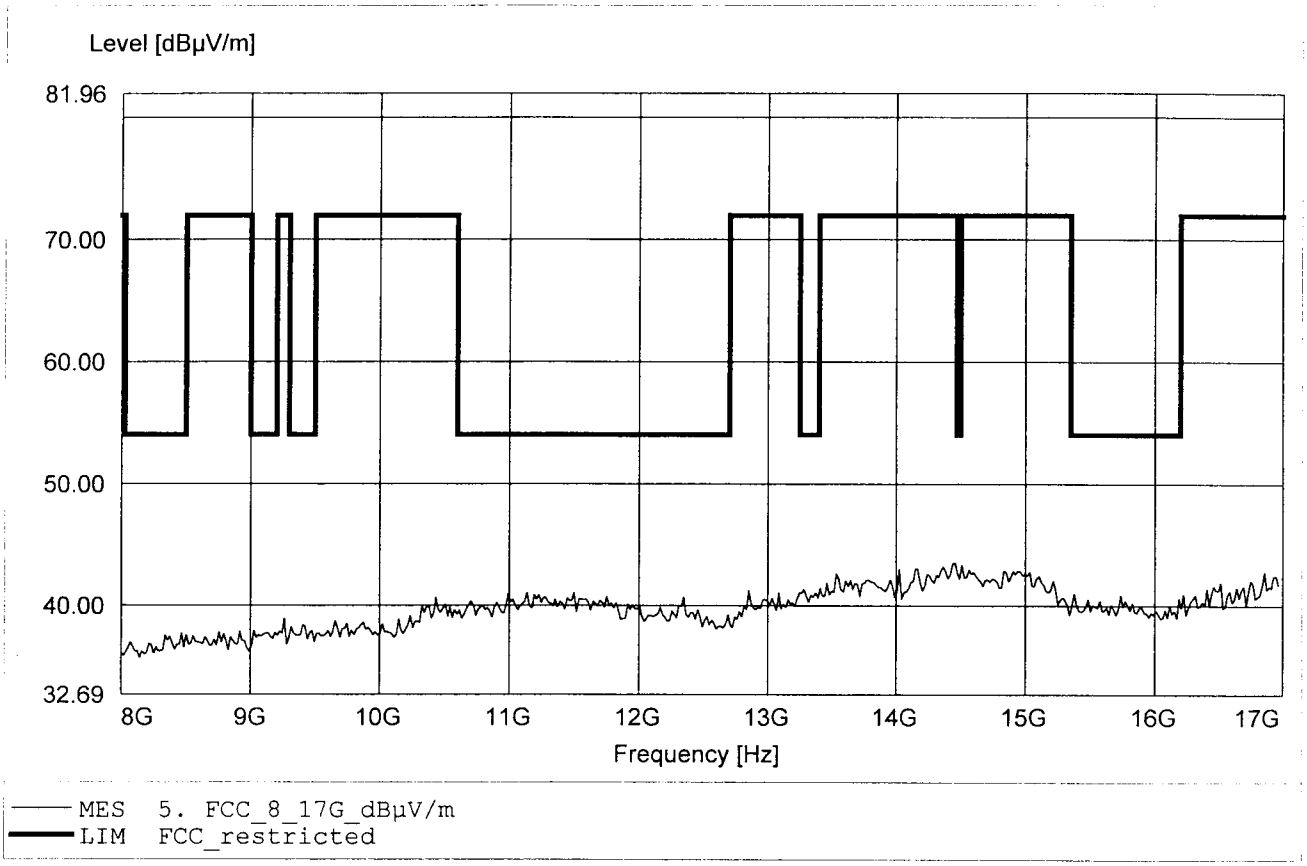
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:14.529GHz Emax:43.90dBµV/m RBW:1MHz



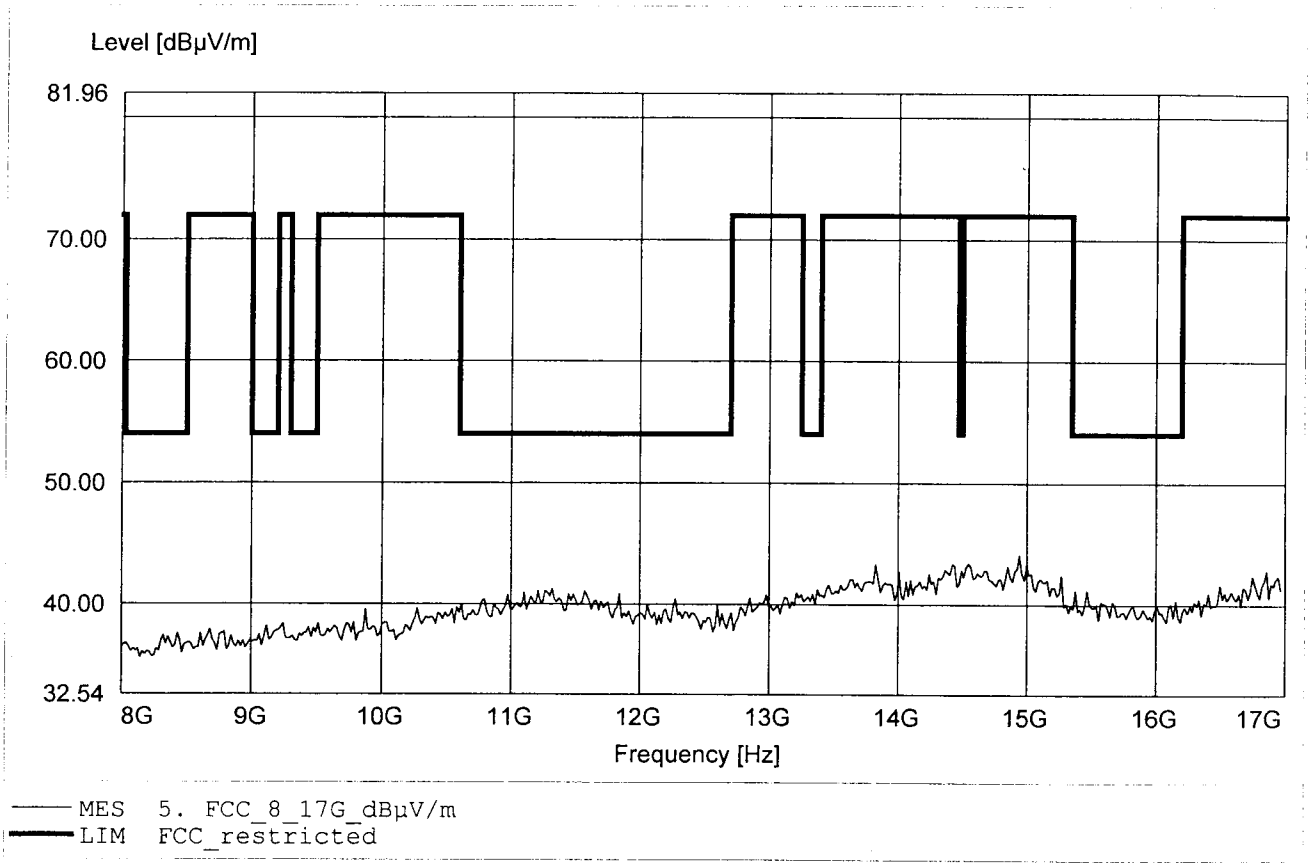
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:14.457GHz Emax:43.49dBµV/m RBW:1MHz



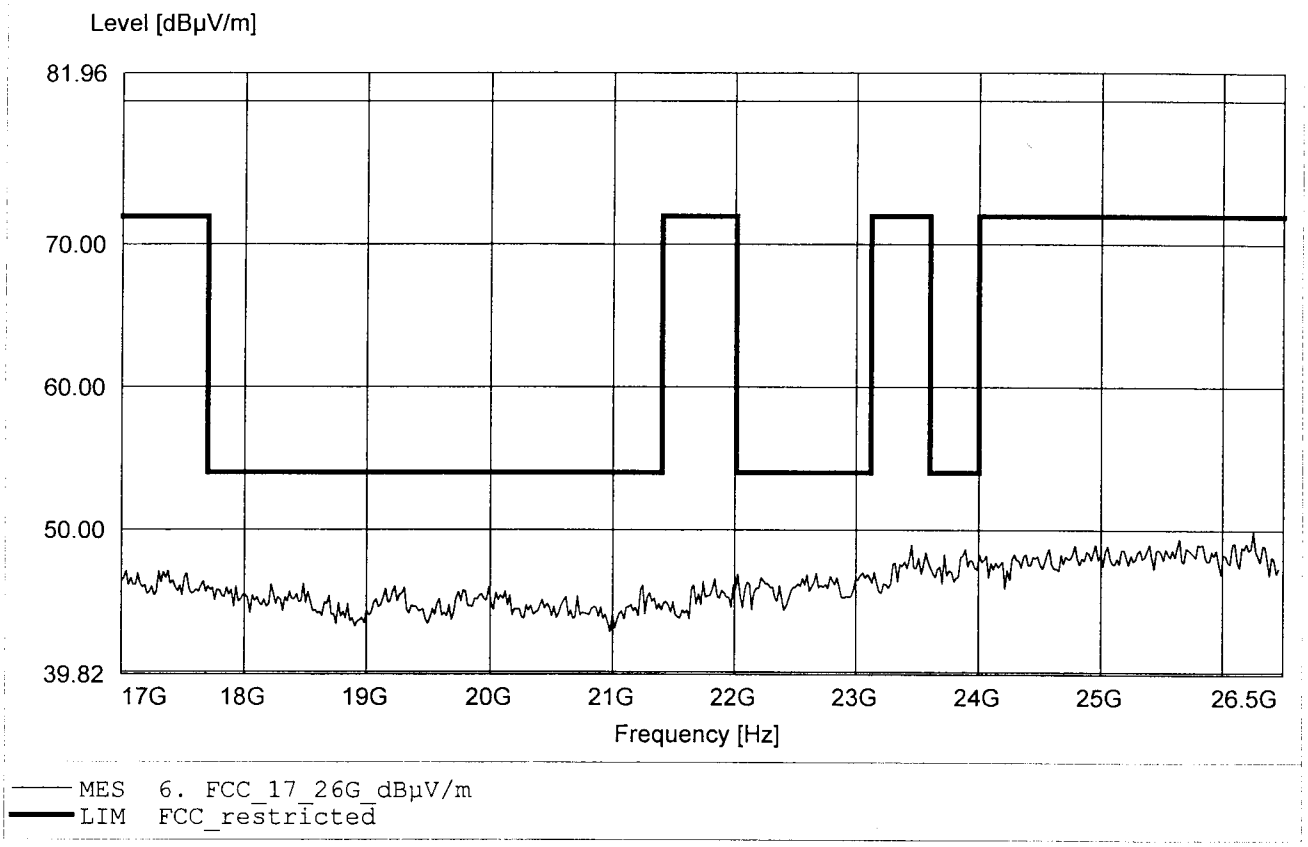
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2:	Freq:14.944GHz Emax:44.13dBµV/m RBW:1MHz



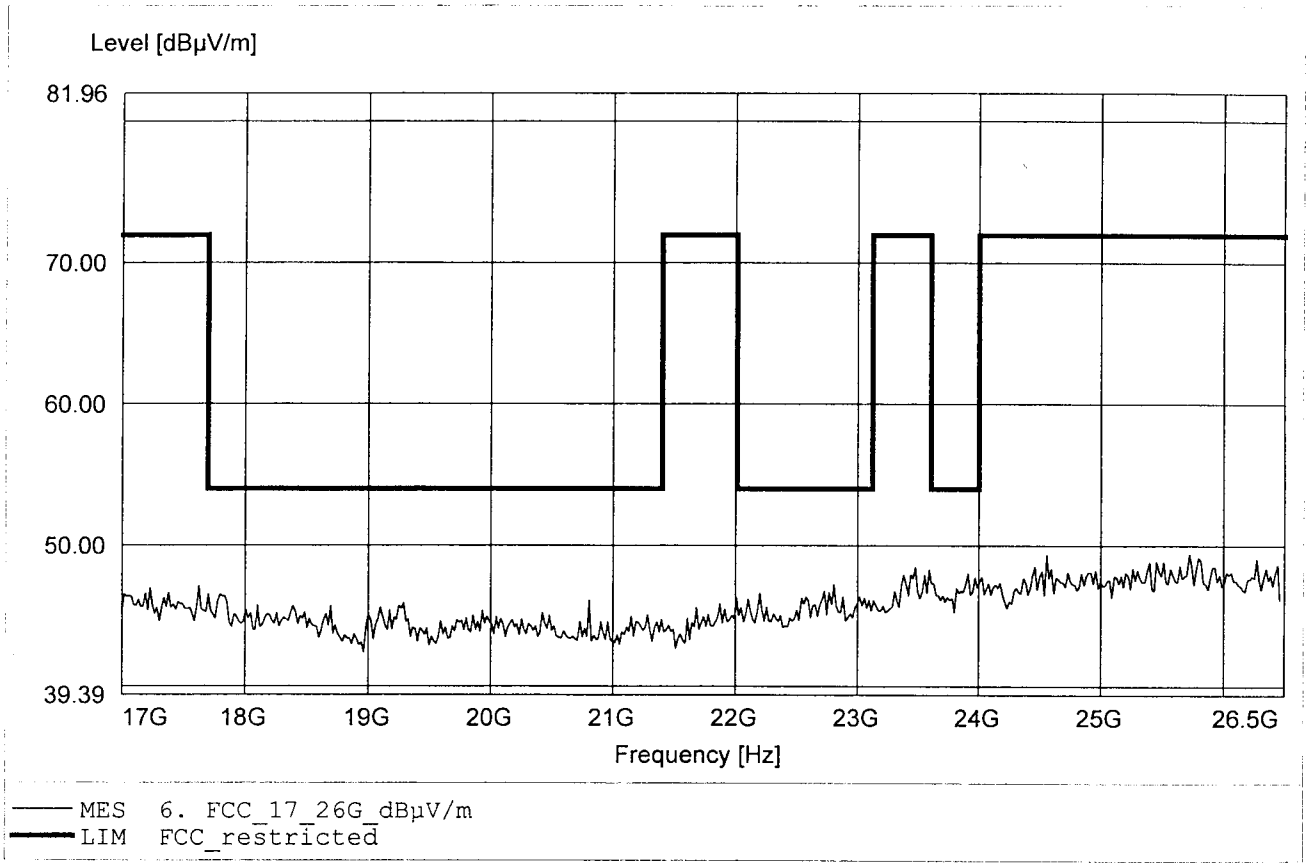
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL025, amplif.
Comment 2:	Freq:26.253GHz Emax:49.90dBµV/m RBW:1MHz



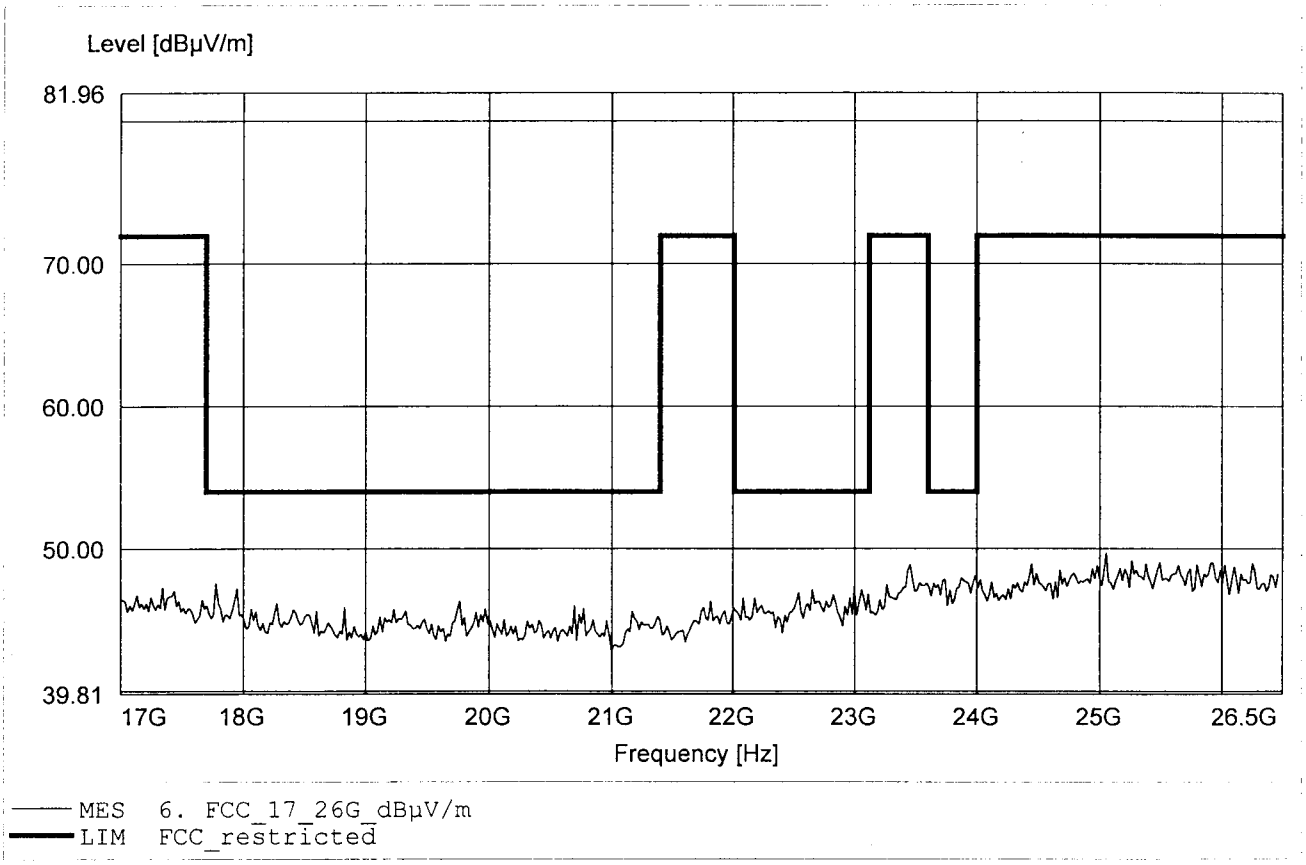
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2402 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL025, amplif.
Comment 2:	Freq:25.719GHz Emax:49.44dBµV/m RBW:1MHz



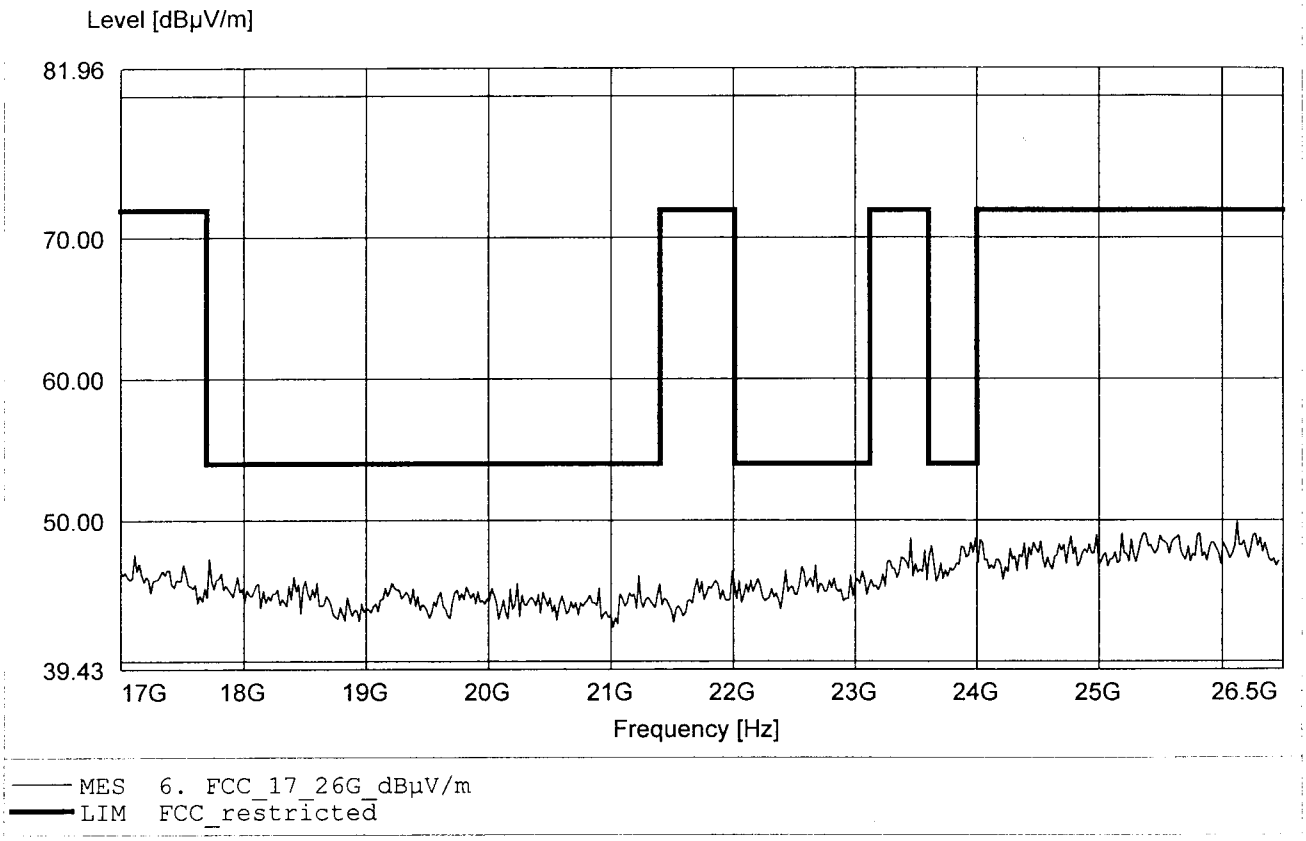
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL025, amplif.
Comment 2:	Freq:25.053GHz Emax:49.71dBµV/m RBW:1MHz



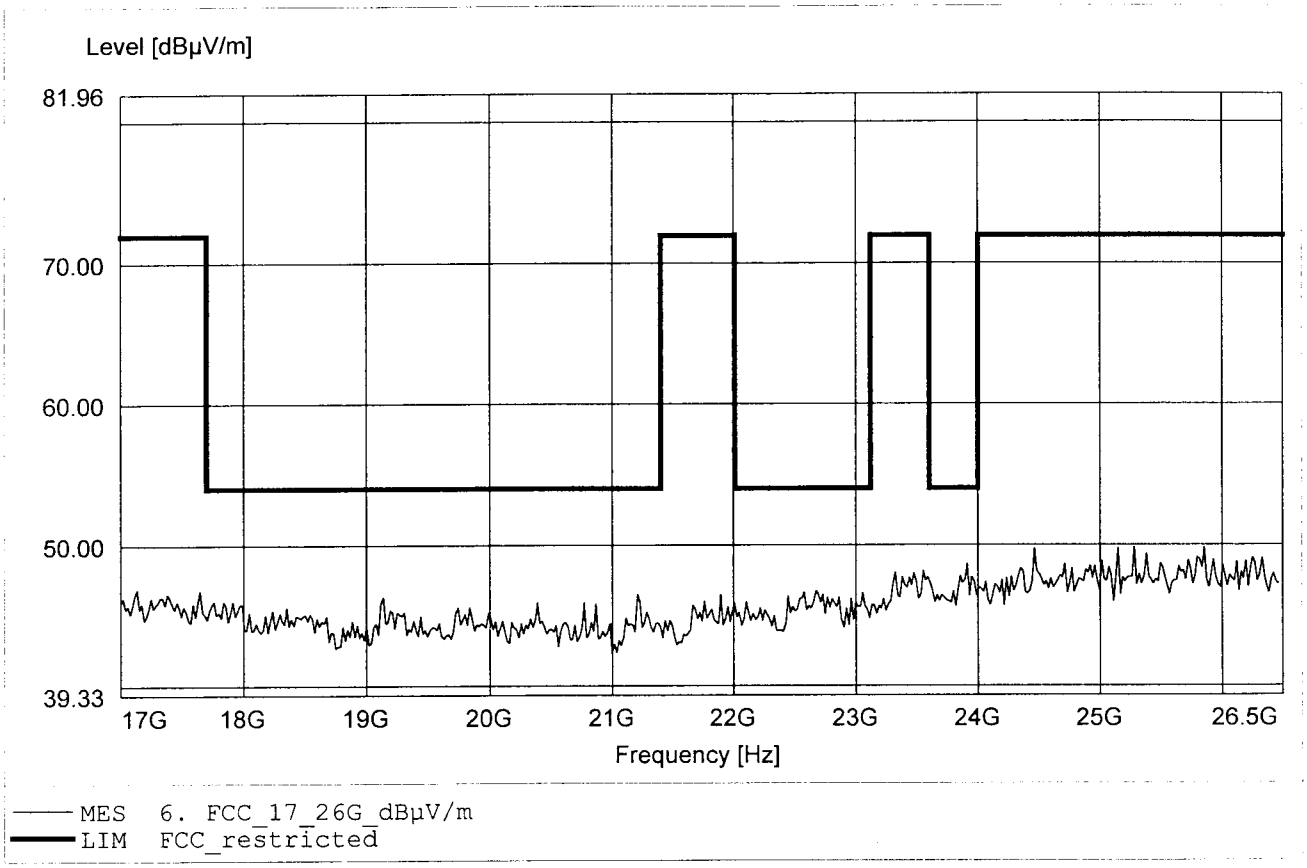
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2441 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL025, amplif.
Comment 2:	Freq:26.119GHz Emax:49.87dBµV/m RBW:1MHz



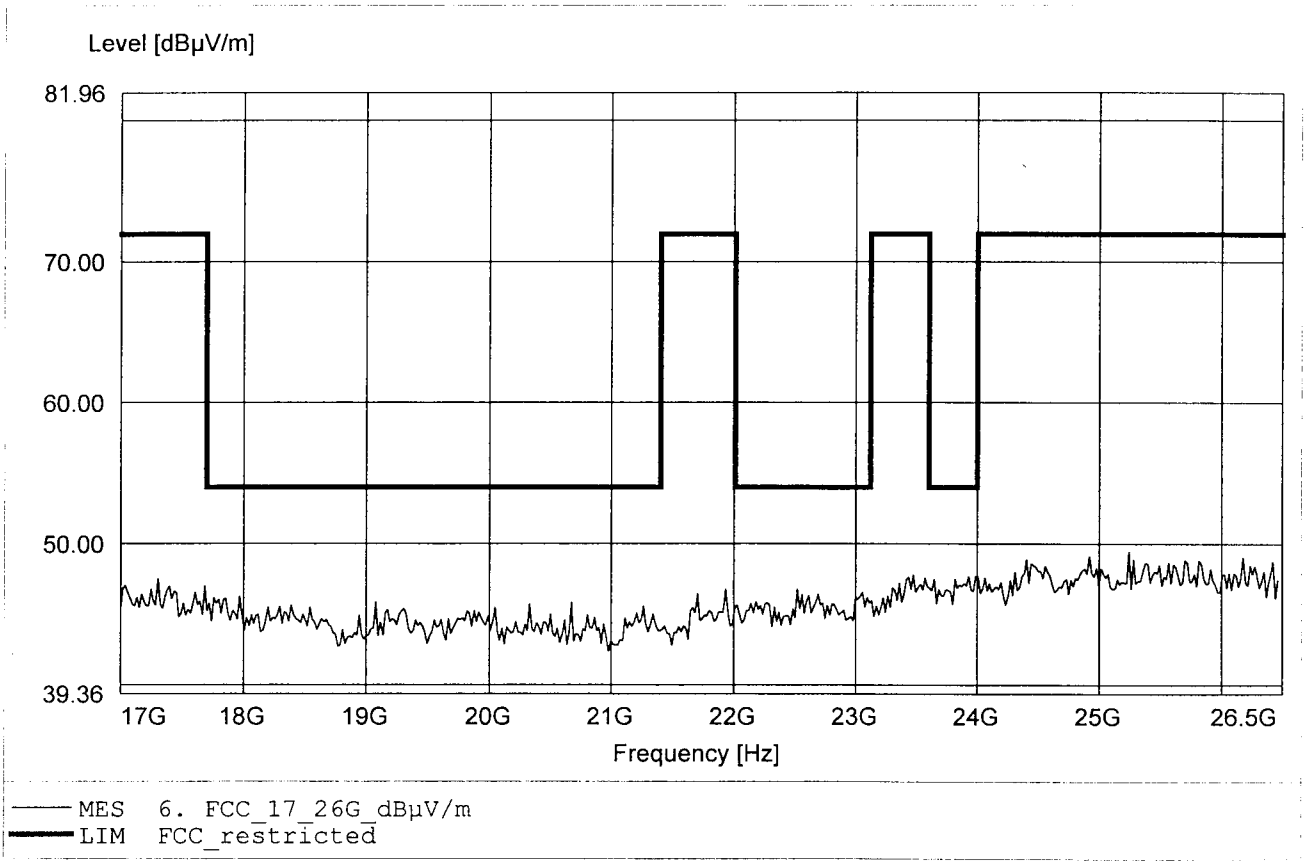
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL025, amplif.
Comment 2:	Freq:25.853GHz Emax:49.83dBµV/m RBW:1MHz



Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT:	Bluetooth Headset (class 2 device) / Tx2480 MHz
Applicant:	GN Netcom Inc.
Model:	Thor
Temperature/ Voltage:	t nom=25°C / Unom= 3.8 V DC (battery)
Test Site / Operator:	ETS / Mr. Trefke
Test Specification:	according to § 15.247
Comment 1:	Dist.: 3m, Ant.: HL025, amplif.
Comment 2:	Freq:25.243GHz Emax:49.47dBµV/m RBW:1MHz

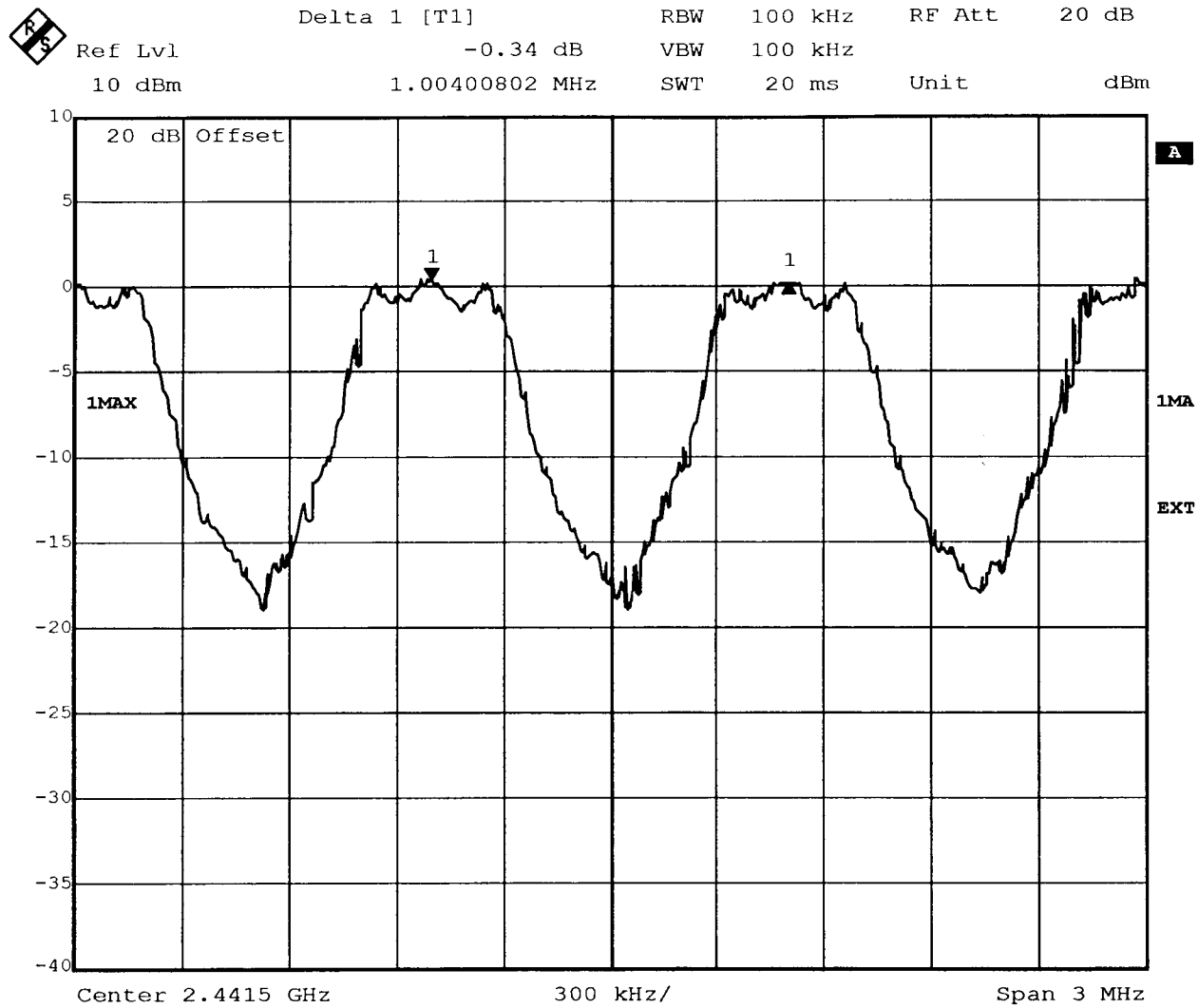


Appendix D

Spurious Emissions conducted - Transmitter operating

Appendix E

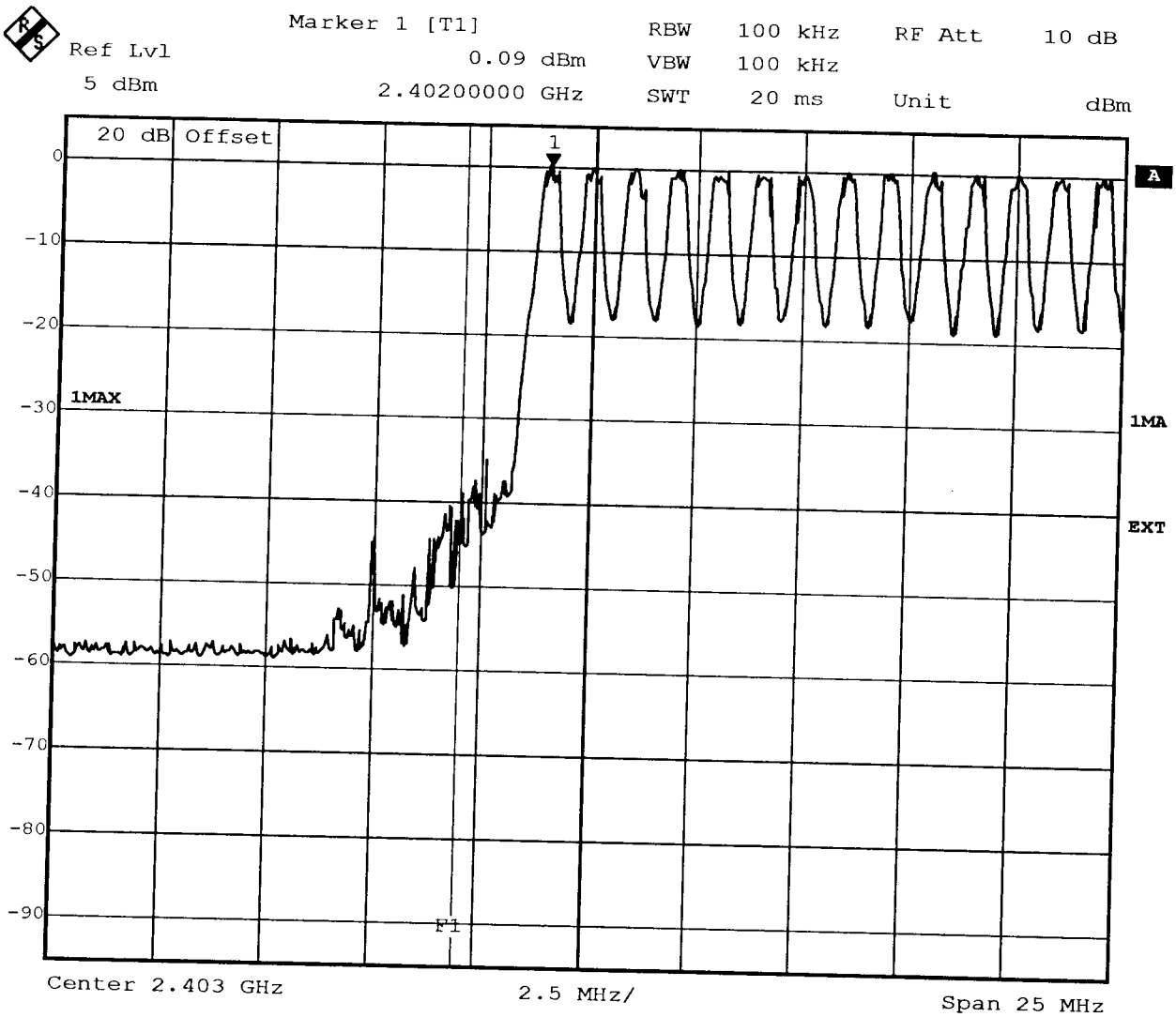
Carrier Frequency Separation



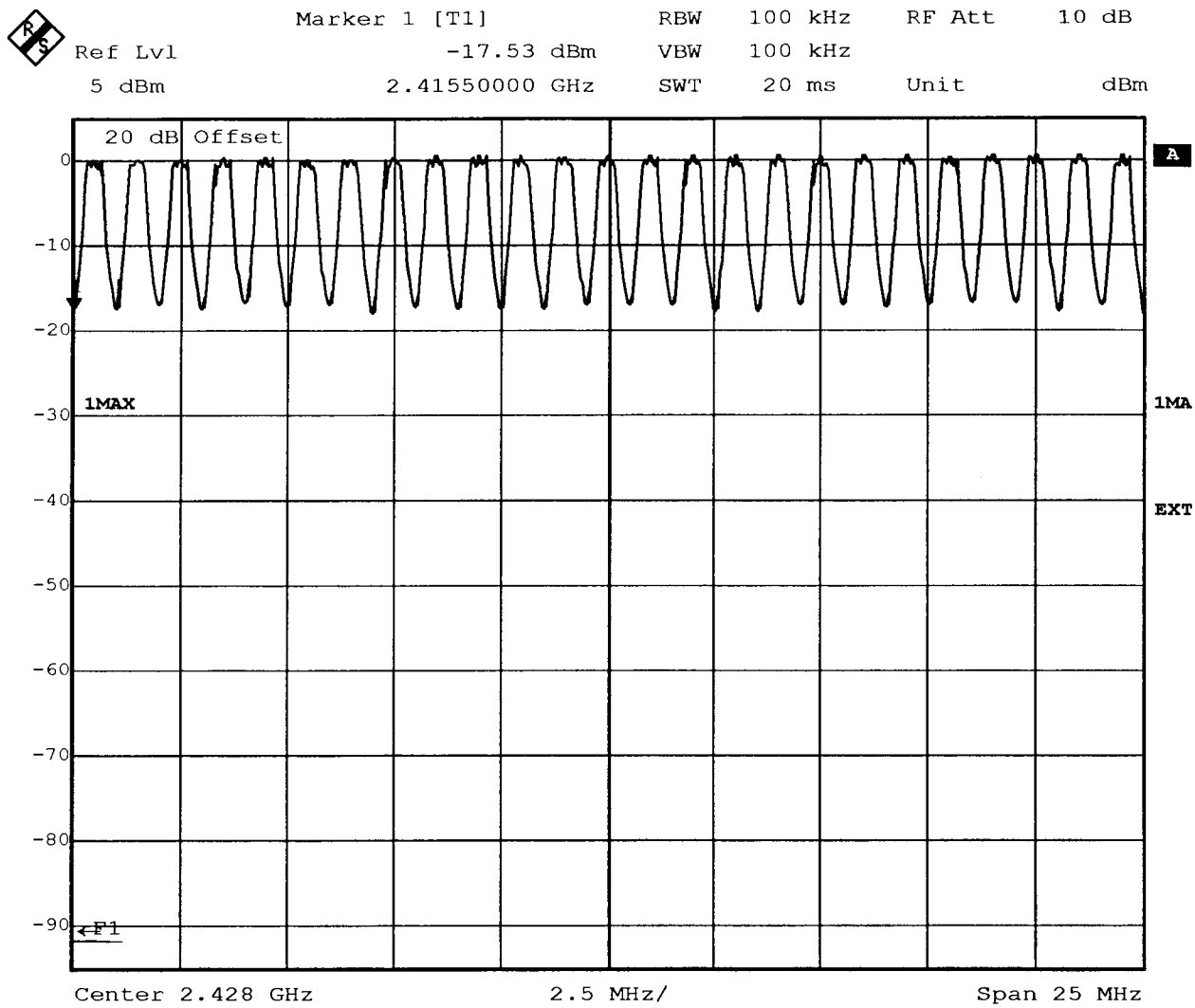
Title: Carrier Frequency Separation
Comment A: GN Netcom Inc. / Thor
Date: 9.JUL.2001 11:39:53

Appendix F

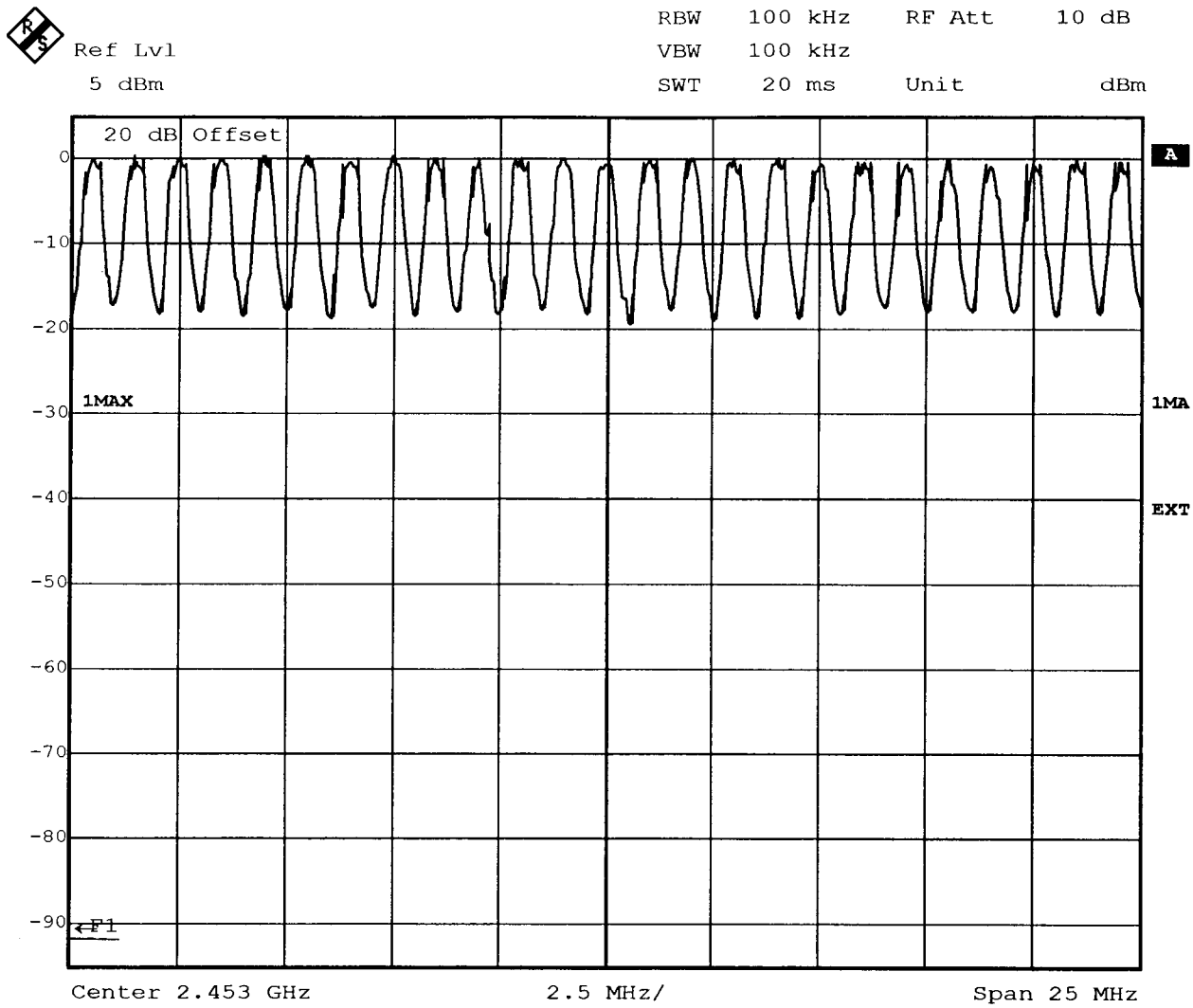
Number of Hopping Frequencies



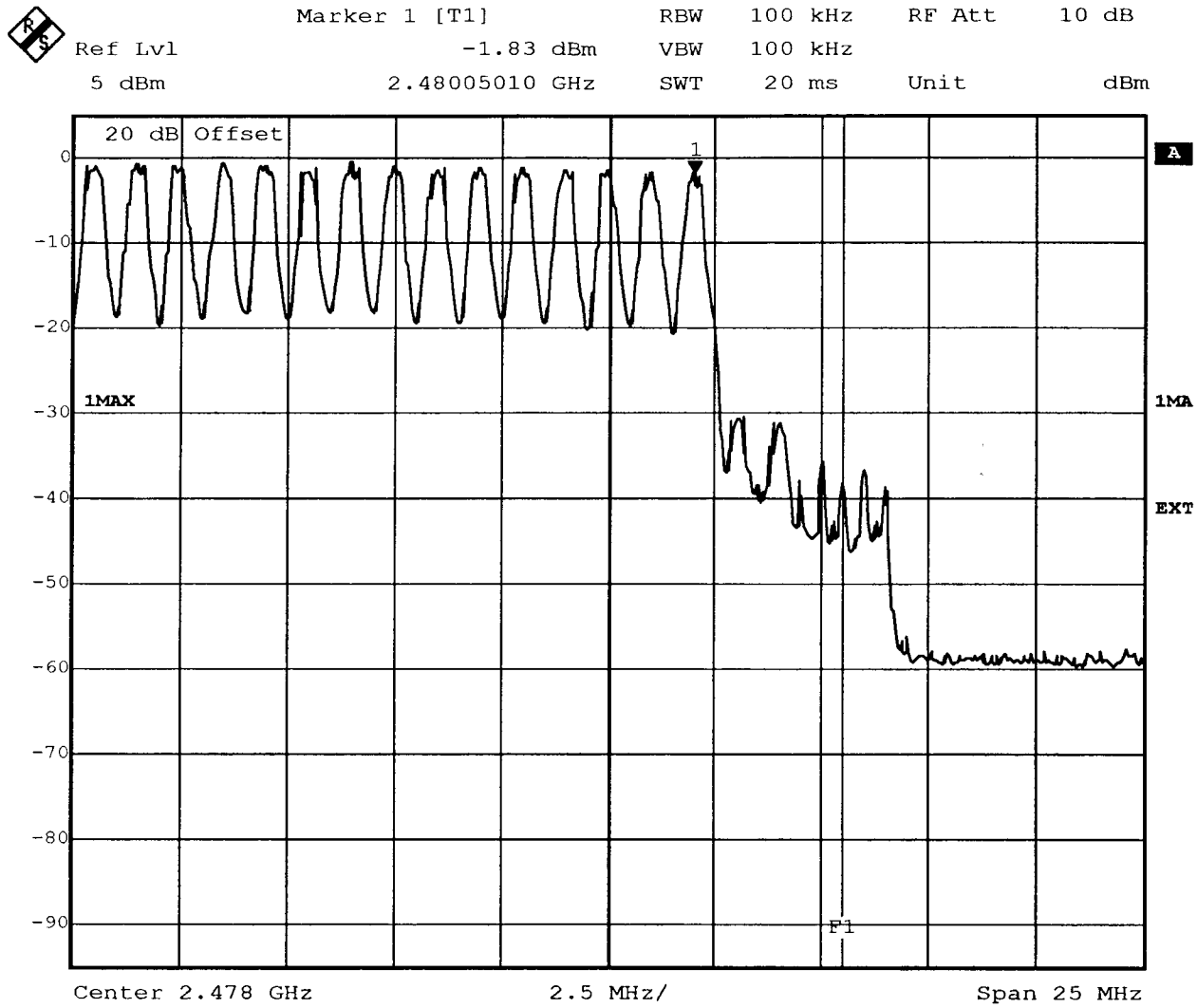
Title: Number of Hopping Frequencies
Comment A: GN Netcom Inc. / Thor
Date: 9.JUL.2001 12:38:55



Title: Number of Hopping Frequencies
Comment A: GN Netcom Inc. / Thor
Date: 9.JUL.2001 12:53:33



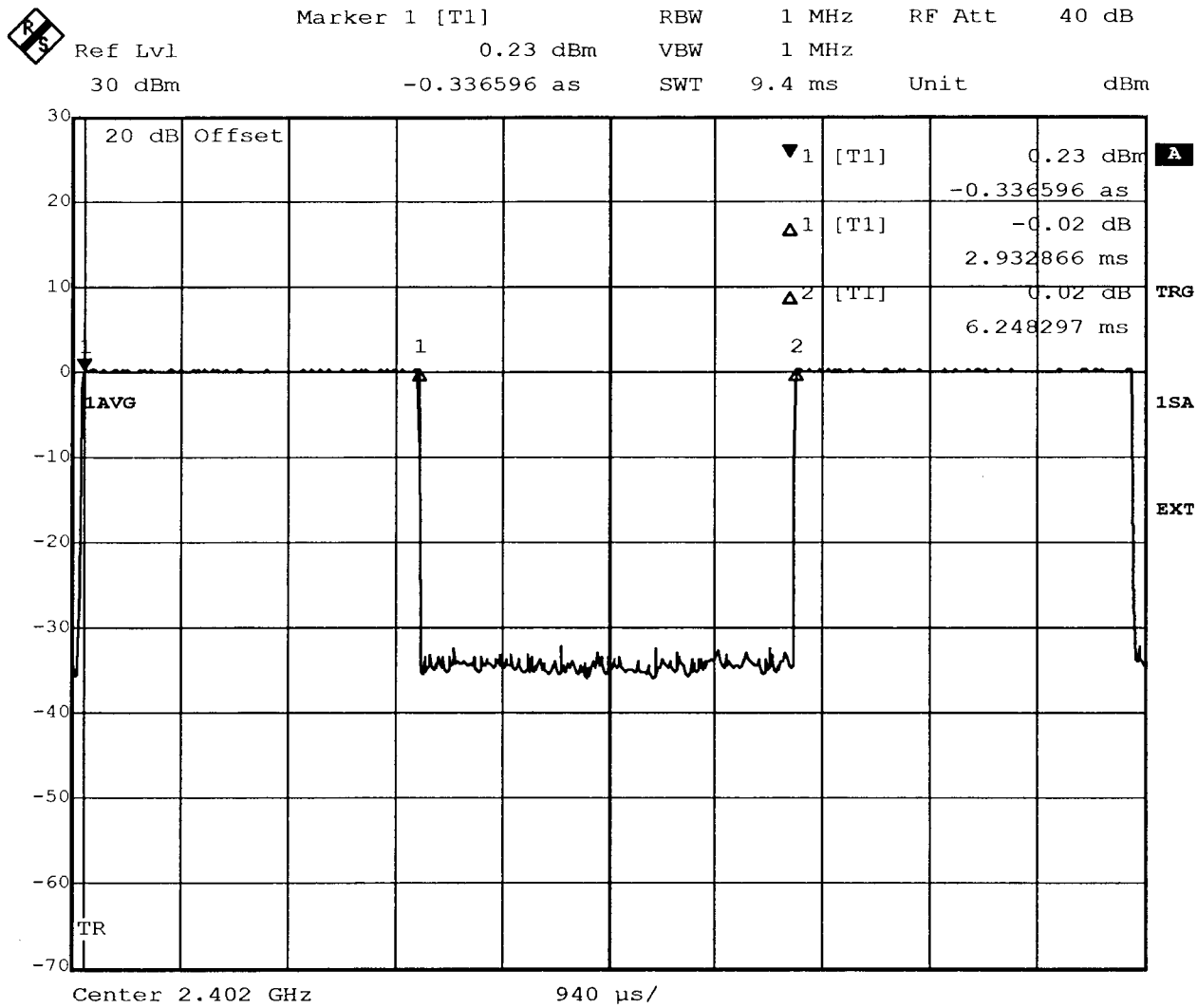
Title: Number of Hopping Frequencies
Comment A: GN Netcom Inc. / Thor
Date: 9.JUL.2001 12:56:01



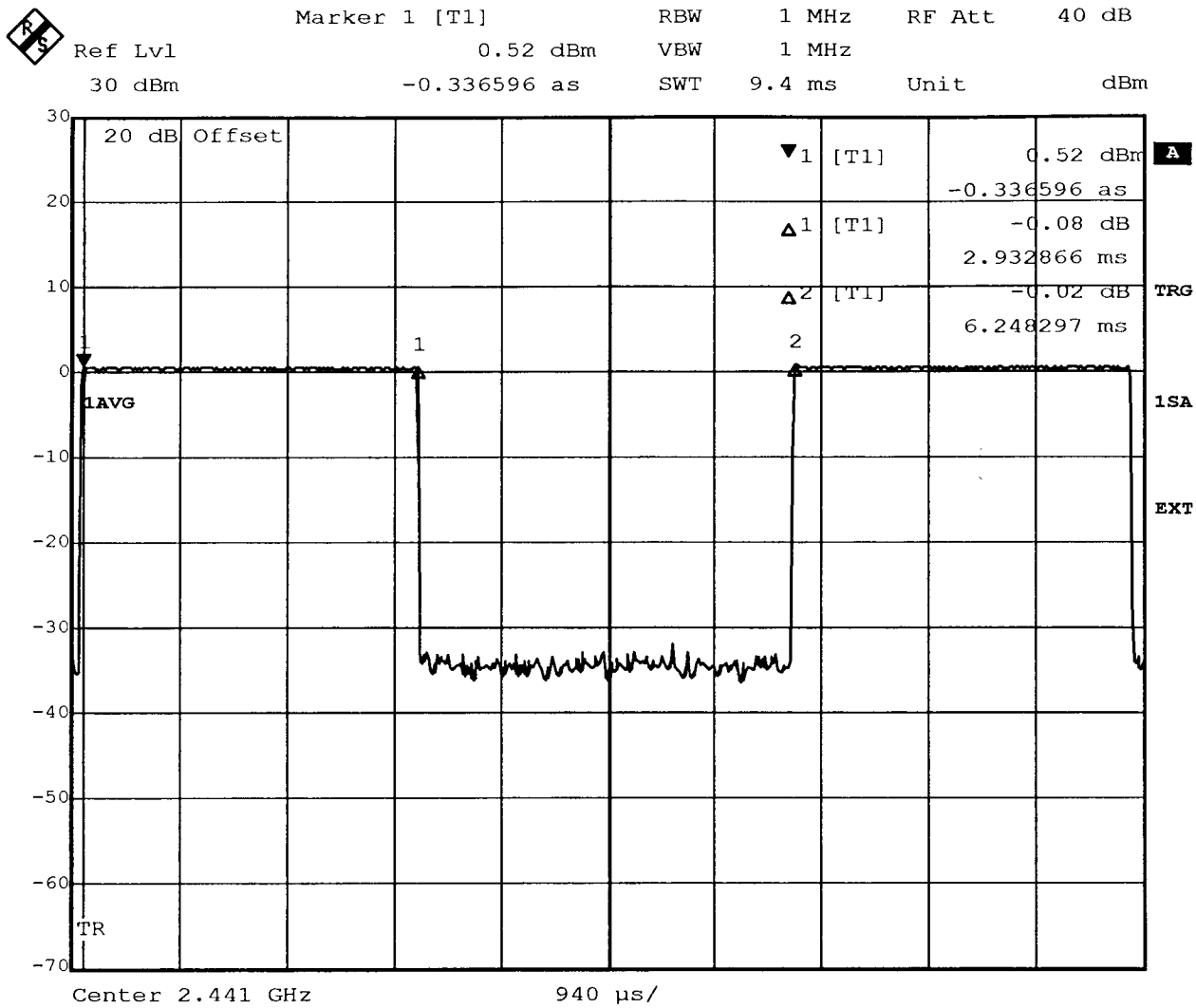
Title: Number of Hopping Frequencies
Comment A: GN Netcom Inc. / Thor
Date: 9.JUL.2001 12:57:53

Appendix G

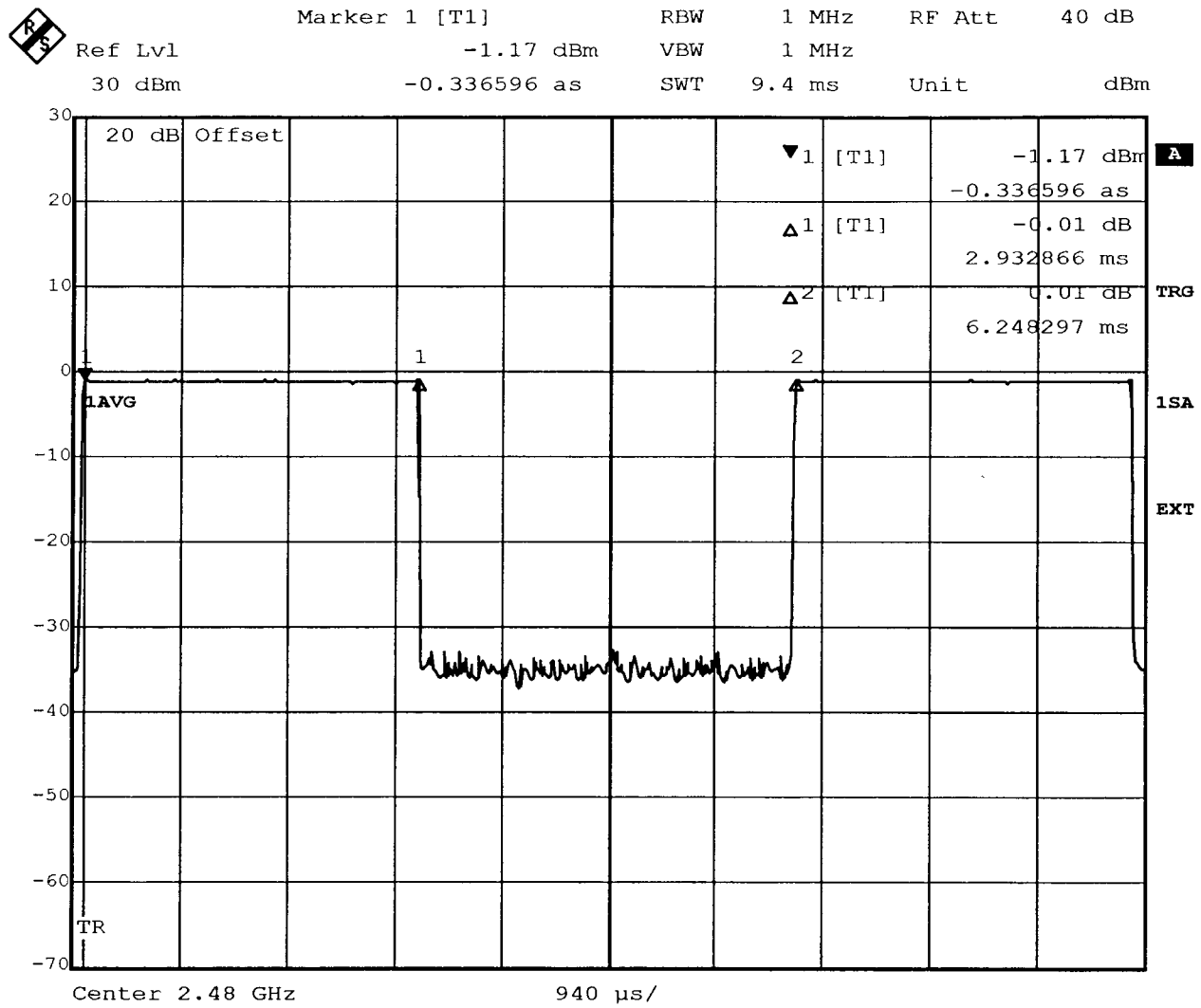
Time of Occupancy (Dwell Time)



Title: Time of Occupancy (Dwell Time)
Comment A: GN Netcom Inc. / Thor
Date: 9.JUL.2001 11:25:38



Title: Time of Occupancy (Dwell Time)
Comment A: GN Netcom Inc. / Thor
Date: 9.JUL.2001 11:27:06



Title: Time of Occupancy (Dwell Time)
Comment A: GN Netcom Inc. / Thor
Date: 9.JUL.2001 11:29:26

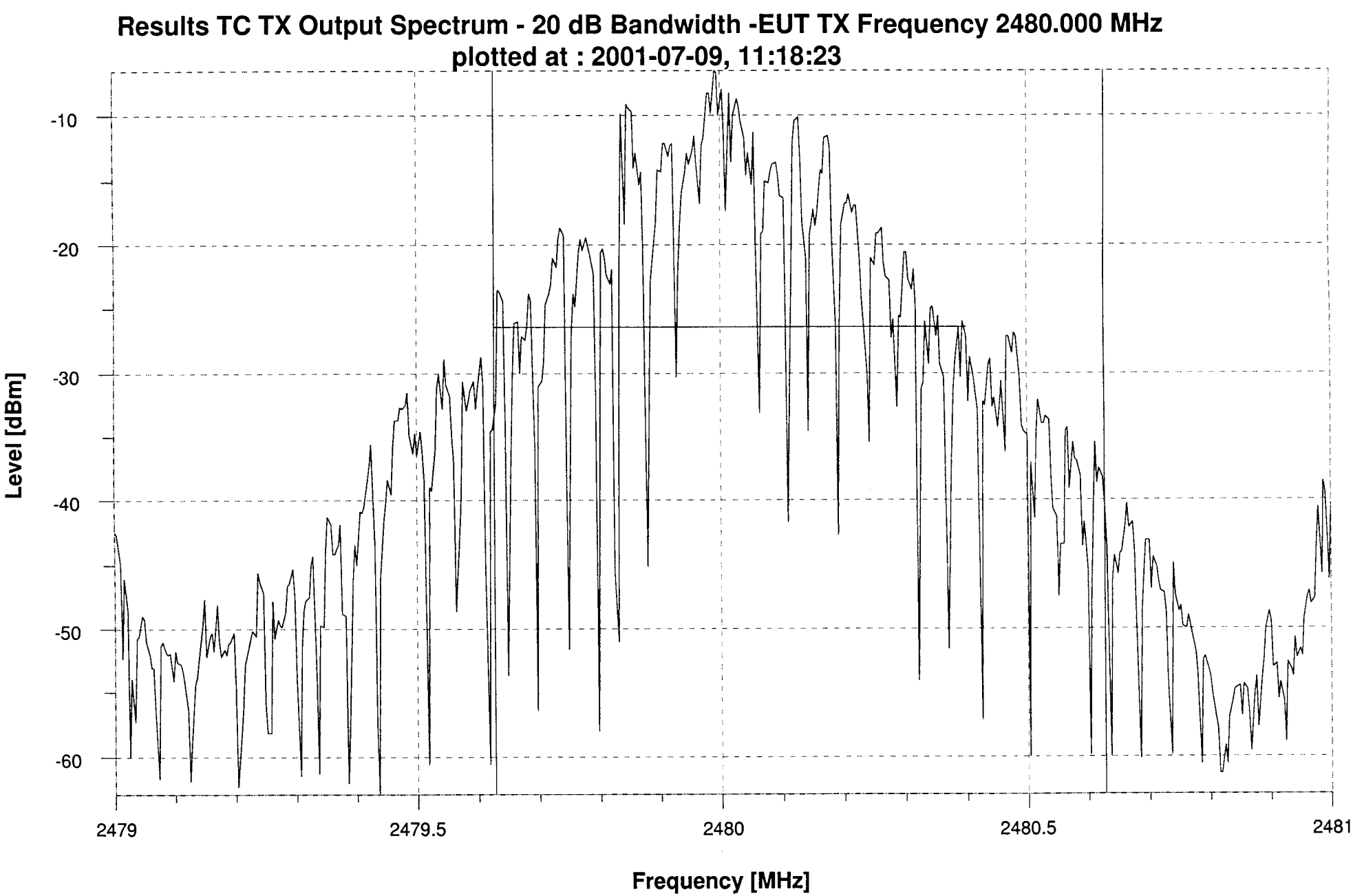
Appendix H

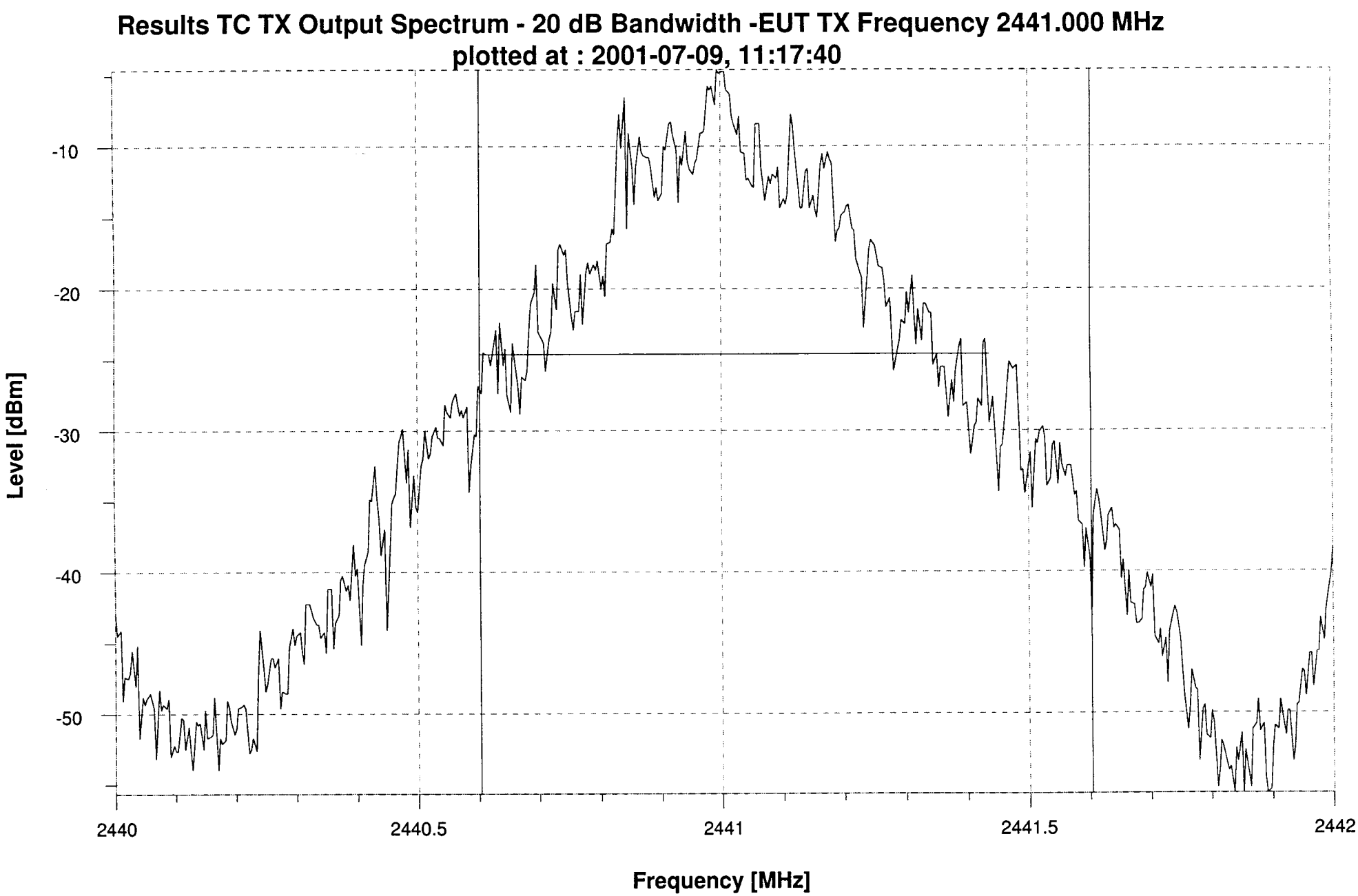
20dB Bandwidth

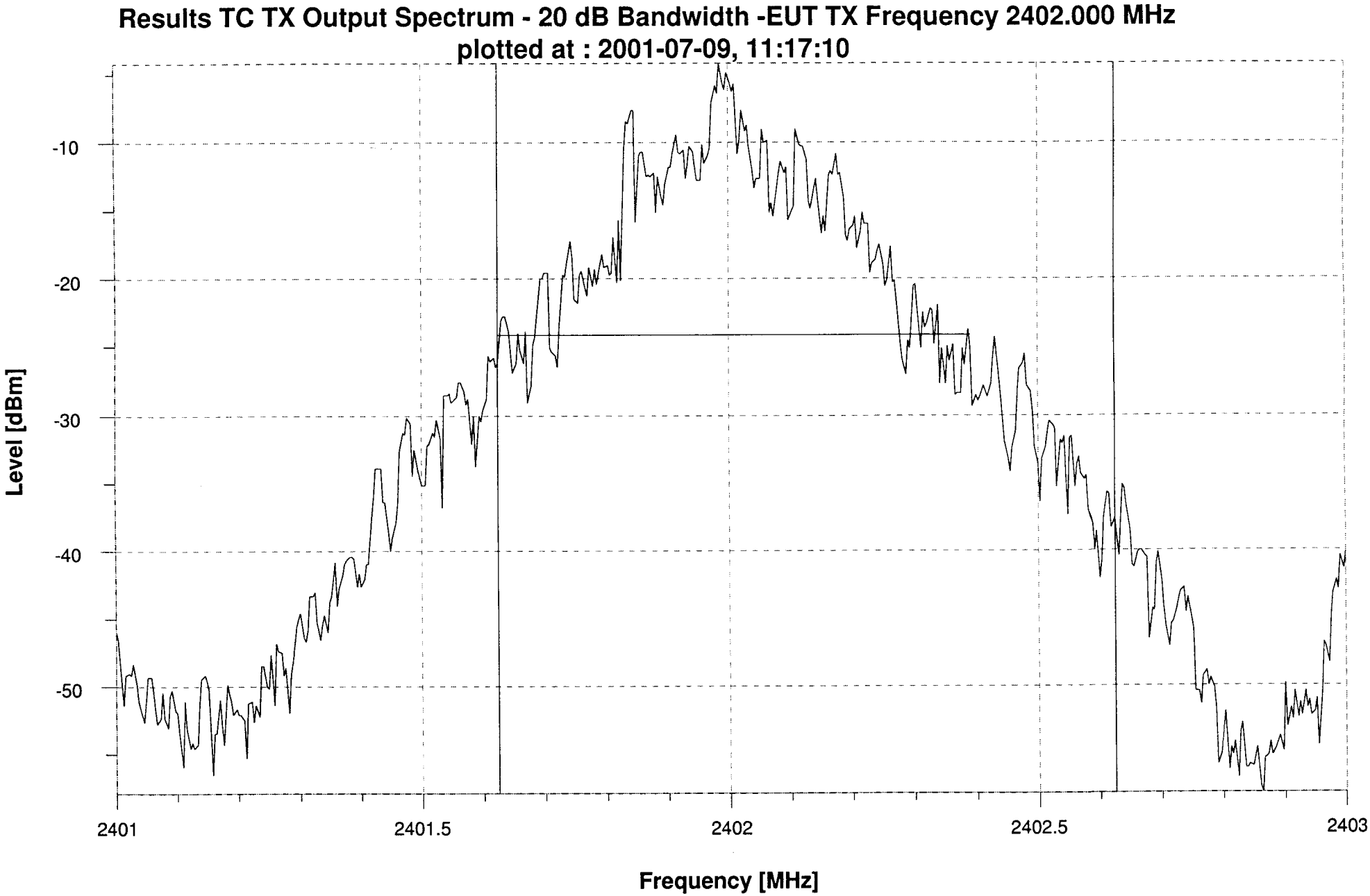
```
#=============================================================================
#  ROHDE & SCHWARZ Certific. Bluetooth Test System TS8960 SW Version: b1_23
#=============================================================================
#  Program name: tc_AllPower                          program revision: 1.1.1
#
#                All Power Measurement Test Cases
#
#
#-----------------------------------------------------------------------------
#  Test Case started: 2001-07-09, 11:15:52 (ets_1)
#  Report File: /home/ts8960/project/ts8960/sw/ALE/tc/dat/Thor/Thor.mm.rep
#  Eut File: Thor
#  Operator's account name: ts8960
#=============================================================================
#  Global Parameter Settings:
#
#  Wait On Compare                :     No
#  Wait On OUTSIDE                :     No
#  Wait On FAIL                   :     No
#  Abbort On FAIL                 :     No
#  Skip Manual Interventions      :     No
#  Plots Disabled                 :     No
#  Remove Plots after Program Run :     No
#  Info Enabled                   :     No
#  Short Mode                     :     No
#  Force Mode                     :     No
#  Part                           :      5
#
#-----------------------------------------------------------------------------


Starting program tc_AllPower
============================


TC TX Output Spectrum - 20 dB Bandwidth RFC Check


.
..
Operator intervention start at 2001-07-09, 11:15:53
Intervention Type  'Please reset the EUT'
Operator intervention end at 2001-07-09, 11:15:57

Starting TC TX Output Spectrum - 20 dB Bandwidth (TRM/CA/05/C)
==============================================================


   Test Specification RF:          0.9


EUT connected for Measurement and Signalling at: SSCU-Port 'MEASUREMENT DUT COND'
================================================================================


Next measurement will be running with the following EUT paramter:

   Manufacturer:                   GN Netcom Inc.
   Model:                          Bluetooth Headset / Thor
   Serial No:                      no info
   Comment:                        class 2 Bluetooth device
   Setup mode:                     Interim Testing
   Test Mode Handle:               Every Connection
   Country:                        All
   EUT Address:                    00025B000000 hex
   Tester Address:                 008037122094 hex
   Active Member Address:          00000007 hex
   Access Code from EUT:           AD59EE5328A41120D5 hex
```



```
   Access Code from SU:            AD59EE5328A41120D5 hex
   Burst Distance:                 10        Time Slots
   Trigger for SU:                 Not supported
   Power Control:                  Not supported
   Add. Transmission (Receive):    0.000     dB
   Add. Transmission (Transmit):   0.000     dB
   Longest Packet Type:            DH5
   Voltage Value 1:                3.800     Volt
   Voltage Value 2:                12.000    Volt
   Temperature:                    25.000    Deg C

Next measurement will be running with the following parameter:

   Voltage:                        Middle
   Temperature:                    Middle
   Power Mode:                     Not Controlled
   Measurement:                    Conducted
   EUT Test Mode:                  Loopback
   B1 Data From File:              No
   B1 Signal Packet Type:          DH1
   B1 Signal Pattern:              PRBS 9
   Whitening:                      Yes
   EUT Tx Frequency:               2402.000  MHz
   EUT Rx Frequency:               2480.000  MHz
   B1 Signalling Level:            -55.000   dBm

Operator intervention start at 2001-07-09, 11:16:00
Intervention Type  'Please bring the EUT into test mode LOOP BACK'
Operator intervention end at 2001-07-09, 11:16:07
Operator intervention start at 2001-07-09, 11:16:14
Intervention Type  'Please set the EUT TX Frequency to 2402.000000 MHz'
Operator intervention end at 2001-07-09, 11:16:56
Operator intervention start at 2001-07-09, 11:16:56
Intervention Type  'Please set the EUT RX Frequency to 2480.000000 MHz'
Operator intervention end at 2001-07-09, 11:16:56

================================================================================
 TX    RX   START  STOP     LOW      HIGH       BW        LIMIT     VERDICT
[MHz] [MHz] [MHz]  [MHz]    [MHz]    [MHz]      [MHz]     [MHz]
--------------------------------------------------------------------------------

 2402 2480  2401.0 2403.0 2401.624 2402.392   0.768  <= 1.000      PASS
Operator intervention start at 2001-07-09, 11:17:10
Intervention Type  'Please set the EUT TX Frequency to 2441.000000 MHz'
Operator intervention end at 2001-07-09, 11:17:24
Operator intervention start at 2001-07-09, 11:17:24
Intervention Type  'Please set the EUT RX Frequency to 2402.000000 MHz'
Operator intervention end at 2001-07-09, 11:17:27
 2441 2402  2440.0 2442.0 2440.604 2441.436   0.832  <= 1.000      PASS
Operator intervention start at 2001-07-09, 11:17:40
Intervention Type  'Please set the EUT TX Frequency to 2480.000000 MHz'
Operator intervention end at 2001-07-09, 11:18:11
 2480 2402  2479.0 2481.0 2479.628 2480.400   0.772  <= 1.000      PASS
================================================================================

All selected TX Output Spectrum - 20 dB Bandwidth tests are completed
=====================================================================

#=============================================================================
#  Duration 00:02:32
#  Final Test Case verdict: PASS
#  Report file closed at 2001-07-09, 11:18:24
#=============================================================================
```

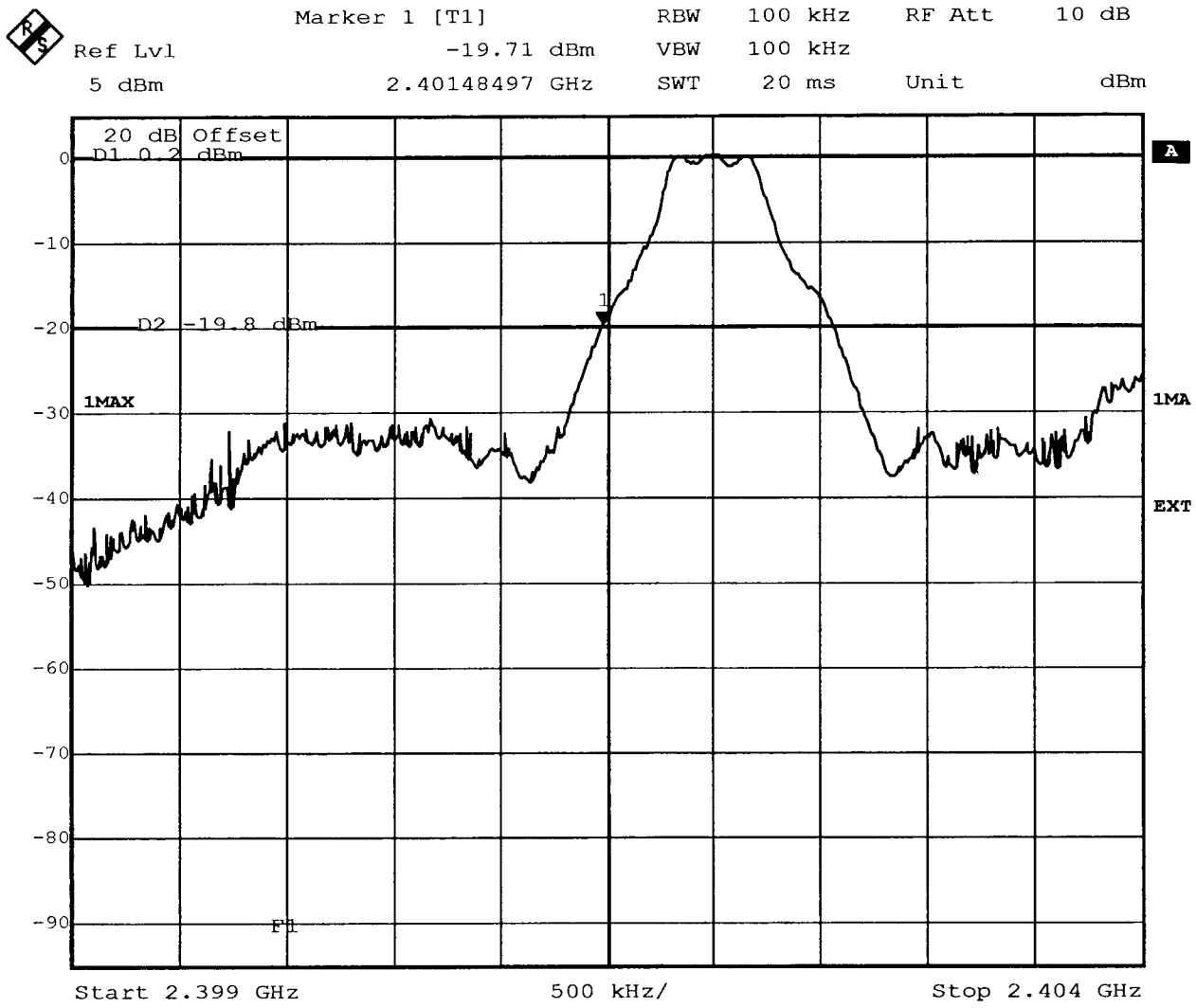

Results TC TX Output Spectrum - 20 dB Bandwidth -EUT TX Frequency 2480.000 MHz
plotted at : 2001-07-09, 11:18:23
-10
-20
-30
-40
-50
-60
Level [dBm]
2479
2479.5
2480
2480.5
2481
Frequency [MHz]


Results TC TX Output Spectrum - 20 dB Bandwidth -EUT TX Frequency 2441.000 MHz
plotted at : 2001-07-09, 11:17:40
-10
-20
-30
-40
-50
Level [dBm]
2440
2440.5
2441
2441.5
2442
Frequency [MHz]

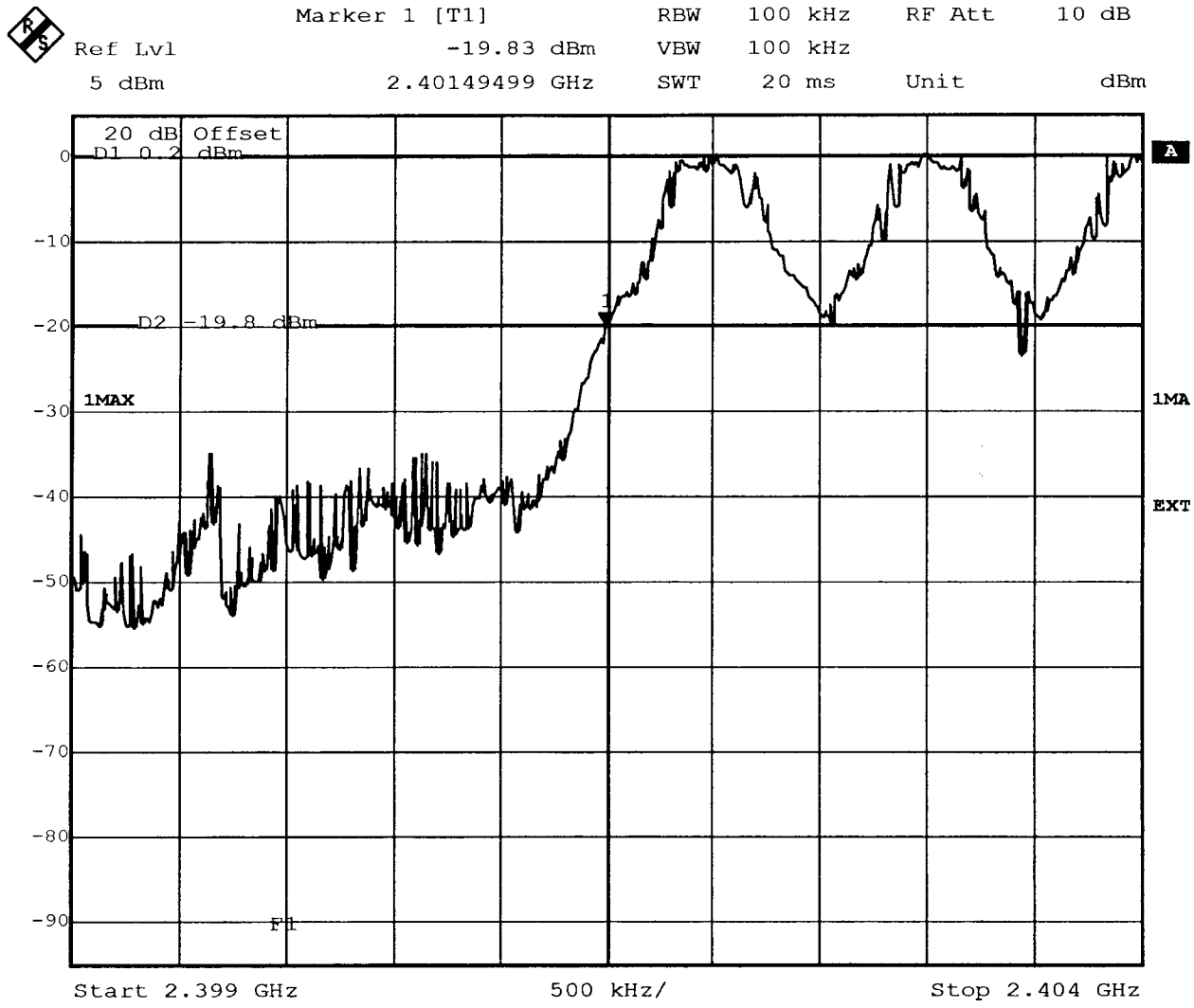

Results TC TX Output Spectrum - 20 dB Bandwidth -EUT TX Frequency 2402.000 MHz
plotted at : 2001-07-09, 11:17:10
-10
-20
-30
-40
-50
Level [dBm]
2401
2401.5
2402
2402.5
2403
Frequency [MHz]

Appendix I

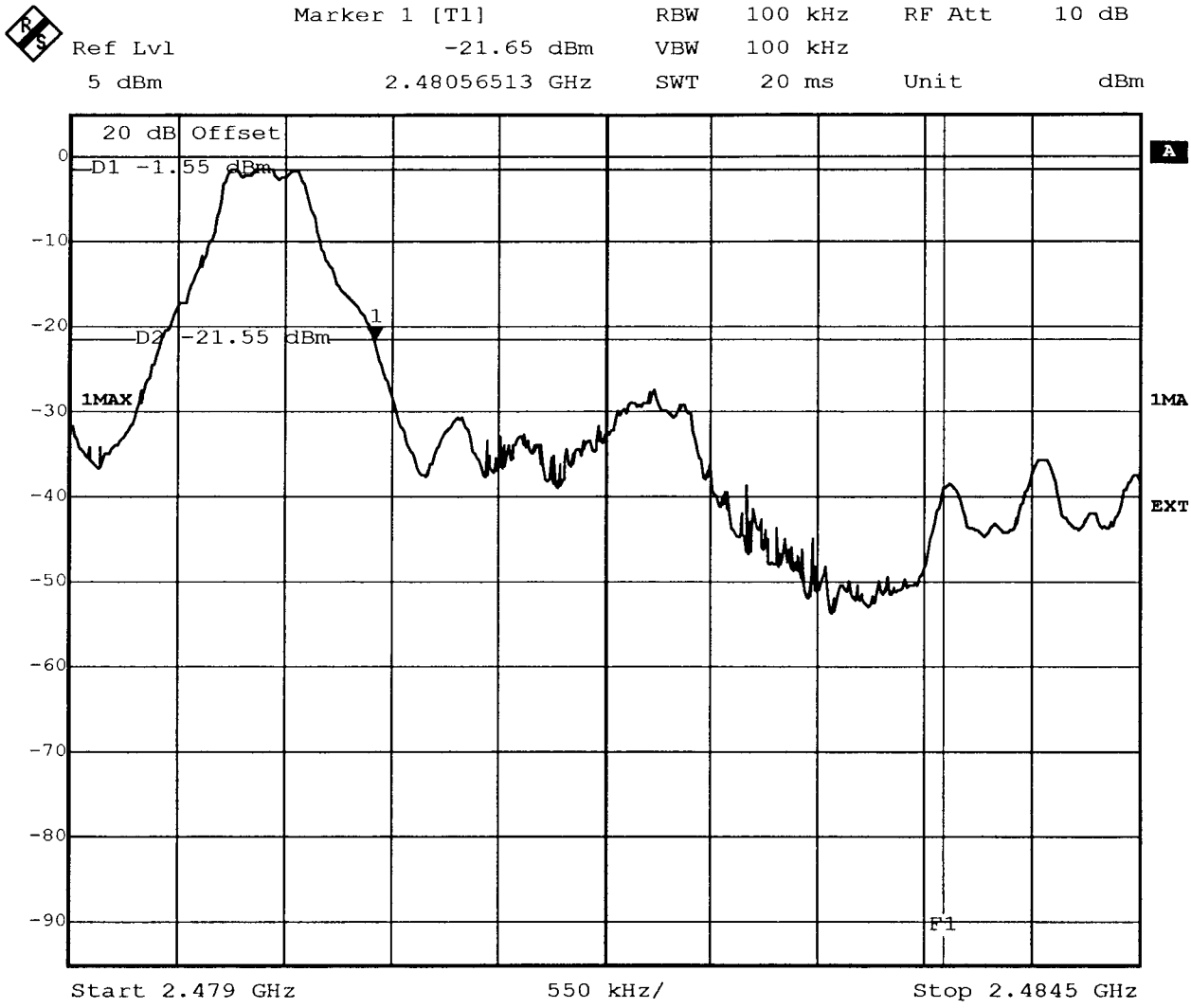
Band-edge Compliance of RF Emissions



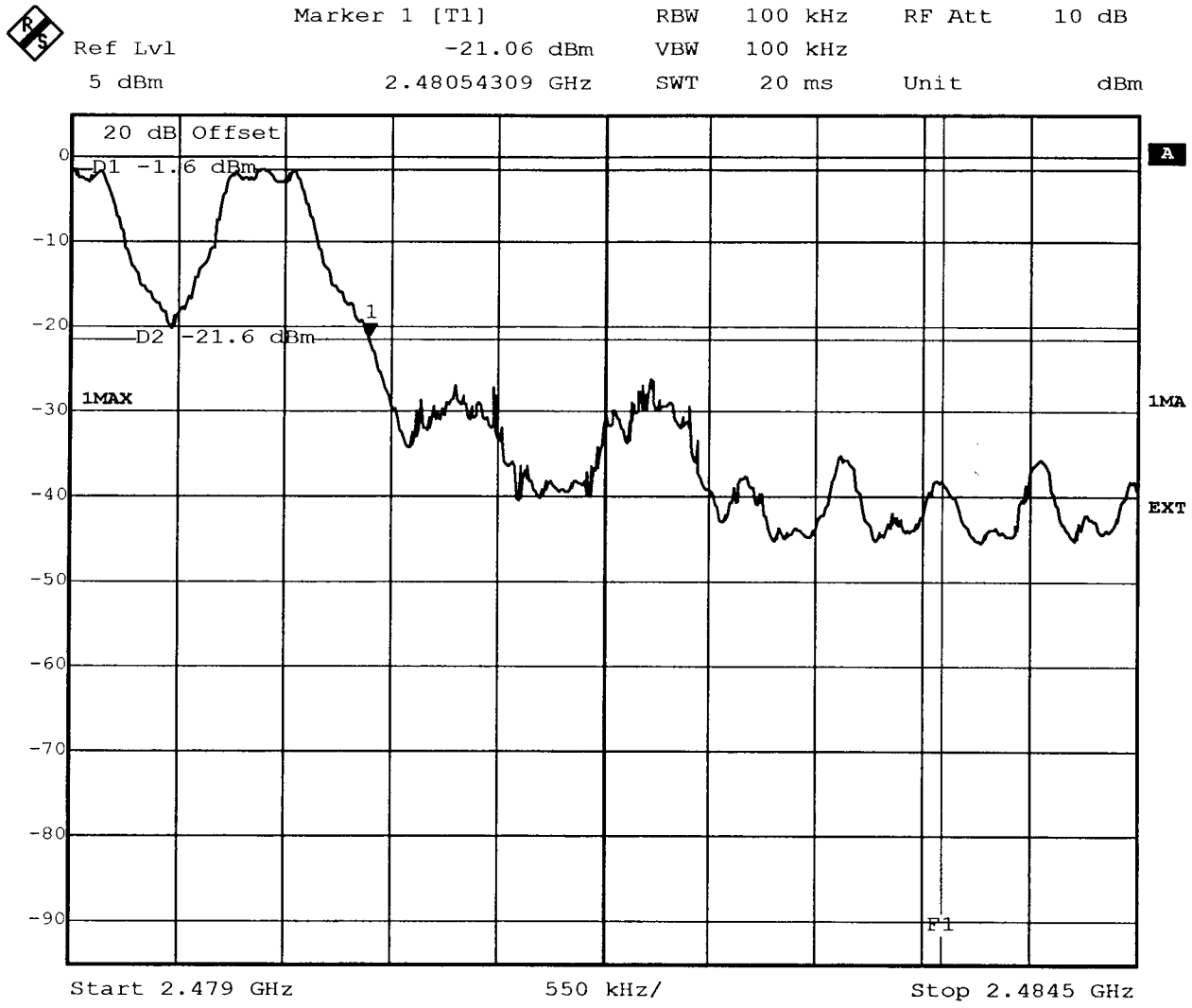
Title: Band-edge Compliance of Conducted Emissions (Tx 2402 MHz)
Comment A: GN Netcom Inc. / Thor
Date: 9.JUL.2001 12:30:05



Title: Band-edge Compliance of Conducted Emissions (hopping mode)
Comment A: GN Netcom Inc. / Thor
Date: 9.JUL.2001 12:31:21



Title: Band-edge Compliance of Conducted Emissions (Tx 2480 MHz)
Comment A: GN Netcom Inc. / Thor
Date: 9.JUL.2001 12:25:12



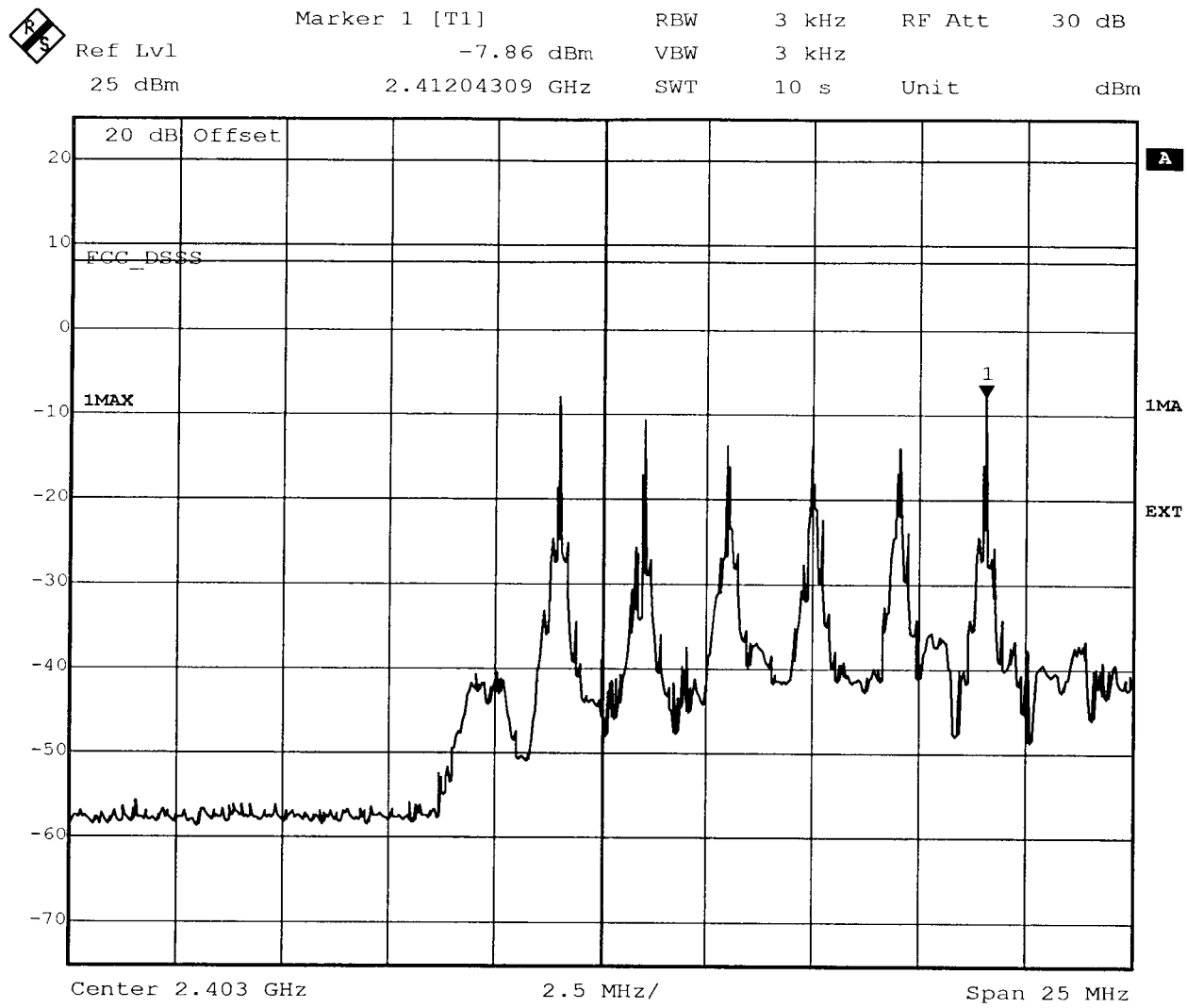
Title: Band-edge Compliance of Conducted Emissions (hopping mode)
Comment A: GN Netcom Inc. / Thor
Date: 9.JUL.2001 12:22:51

Appendix J

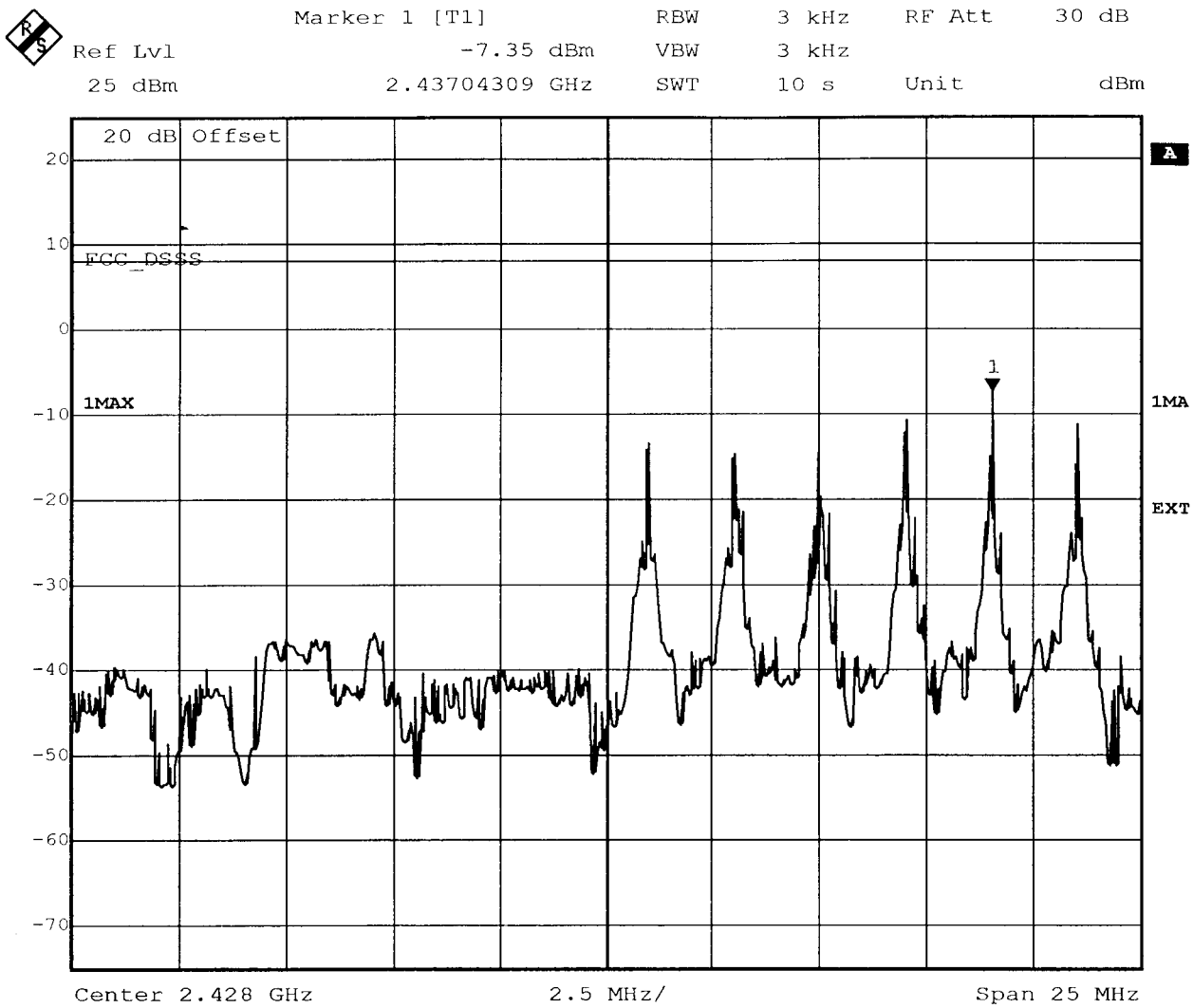
Conducted Measurement at (AC) Power Line

Appendix K

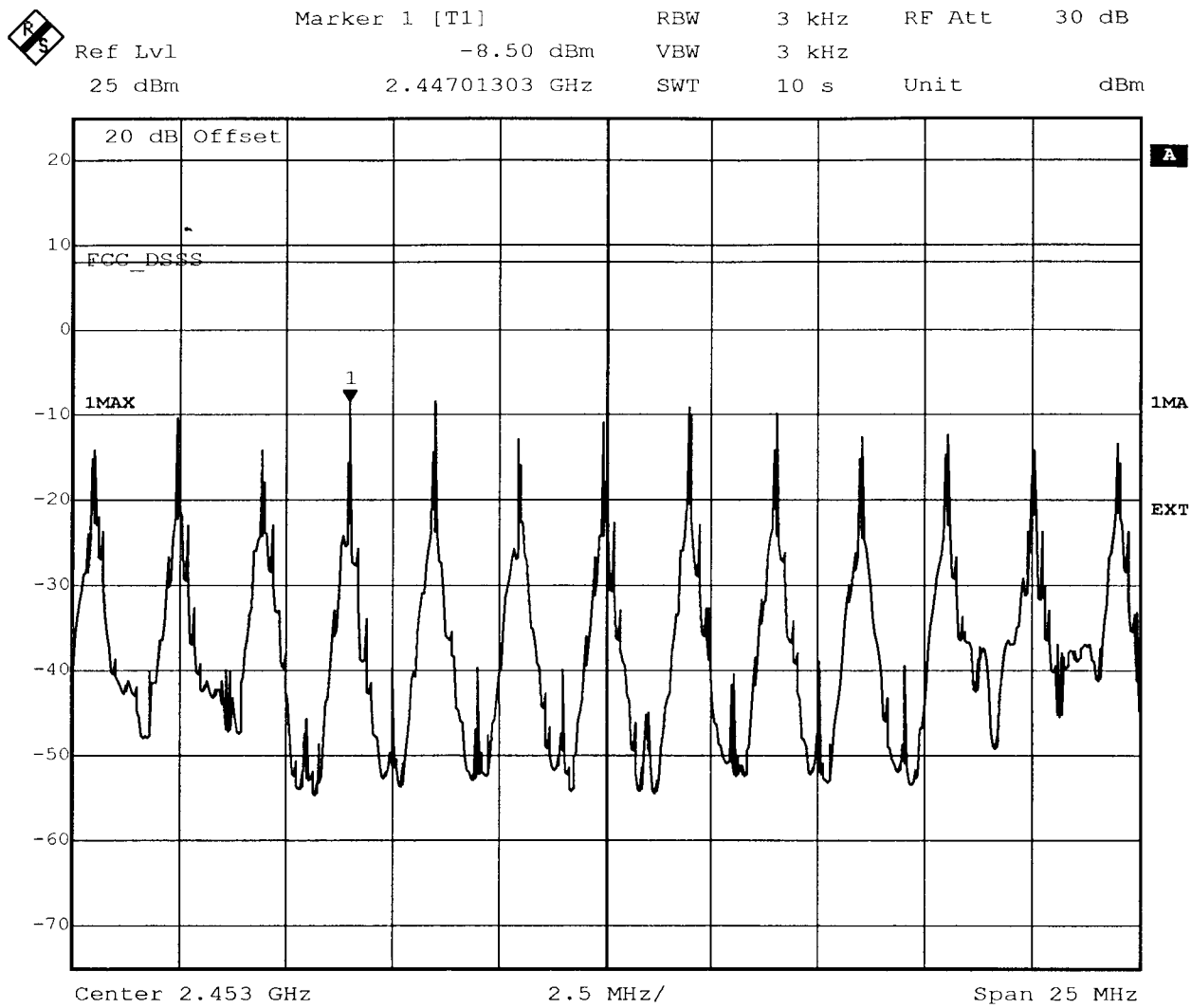
Peak Power Spectral Density (Master Inquiry Mode)



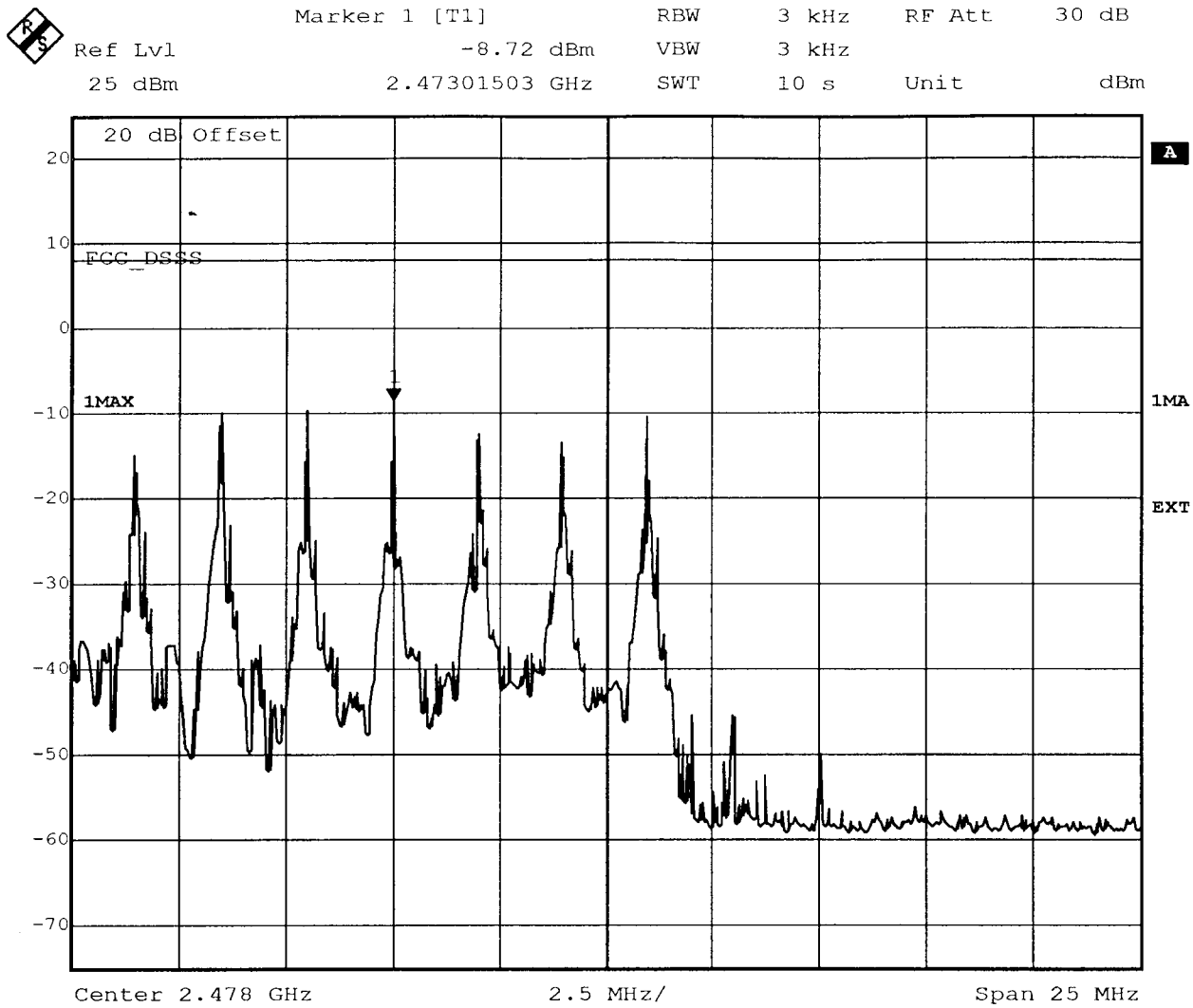
Title: Peak Power Spectral Density (Master Inquiry Mode)
Comment A: Series 9200 Bluetooth wireless Headset
Date: 24.AUG.2001 10:52:04



Title: Peak Power Spectral Density (Master Inquiry Mode)
Comment A: Series 9200 Bluetooth wireless Headset
Date: 24.AUG.2001 10:55:48



Title: Peak Power Spectral Density (Master Inquiry Mode)
Comment A: Series 9200 Bluetooth wireless Headset
Date: 24.AUG.2001 11:00:49



Title: Peak Power Spectral Density (Master Inquiry Mode)
Comment A: Series 9200 Bluetooth wireless Headset
Date: 24.AUG.2001 11:04:31