



Appendix B

Peak Output Power

```

Access Code from EUT: AD59EE5328A41120D5 hex
Access Code from SU: AD59EE5328A41120D5 hex
Connection Poll Period: 40 Time Slots
Connection Page TO: 9000 Time Slots
Test Parameter Setting Delay: 0 ms
Power Class: 2
Power Control: Not supported
Gain: 0.000 dB
Add. Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
Longest Packet Type: DH5
Unmod. part before Mod.: 40.000 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: 6.000 Volt
Voltage Value 2: 0.000 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 Signal Packet Type: DH5
B1 Signal Pattern: PRBS 9
Whitening: Yes
Number of Packets: 1
EUT Tx Frequency: Hopping
EUT Rx Frequency: Hopping
B1 Signalling Level: -55.000 dBm

```

Operator intervention start at 2001-06-01, 10:37:21
Intervention Type 'Please prepare the EUT for Test Mode Activation'
Operator intervention end at 2001-06-01, 10:37:34

TX FREQ [MHz]	RX FREQ [MHz]	MEAS FREQ [MHz]	MEASUREMENT	LEVEL [dBm]	LIMIT [dBm]	VERDICT
hopping	hopping	2402.000	Average (+ gain)	0.44 <	20.00	PASS
hopping	hopping	2402.000	Peak (+ gain)	0.51 <	23.00	PASS
hopping	hopping	2402.000	Average	0.44 <	4.00	PASS
hopping	hopping	2402.000	Average	0.44 >	-6.00	PASS
hopping	hopping	2441.000	Average (+ gain)	0.12 <	20.00	PASS
hopping	hopping	2441.000	Peak (+ gain)	0.14 <	23.00	PASS
hopping	hopping	2441.000	Average	0.12 <	4.00	PASS
hopping	hopping	2441.000	Average	0.12 >	-6.00	PASS
hopping	hopping	2480.000	Average (+ gain)	-0.24 <	20.00	PASS
hopping	hopping	2480.000	Peak (+ gain)	-0.17 <	23.00	PASS
hopping	hopping	2480.000	Average	-0.24 <	4.00	PASS
hopping	hopping	2480.000	Average	-0.24 >	-6.00	PASS

All selected Output Power tests are completed

```

# Duration 00:00:39
# Final Test Case verdict: PASS
# Report file closed at 2001-06-01, 10:37:58

```

```

=====
# ROHDE & SCHWARZ Certific. Bluetooth Test System TS8960 SW Version: bl_23
# Program name: tc_AllPower program revision: 1.1.1
# All Power Measurement Test Cases
#
# Test Case started: 2001-06-01, 10:37:19 (ets_1)
# Report File: /home/ts8960/project/ts8960/sw/ALE/tc/dat/Lessw_cert/Lessw_cert.ta.rep
# Eut File: Lessw_cert
# Operator's account name: ts8960
# Global Parameter Settings:
#
# Wait On Compare : No
# Wait On OUTSIDE : No
# Wait On FAIL : No
# Abort 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
=====

```

Starting program tc_AllPower

TC Output Power RFC Check

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 parameter:

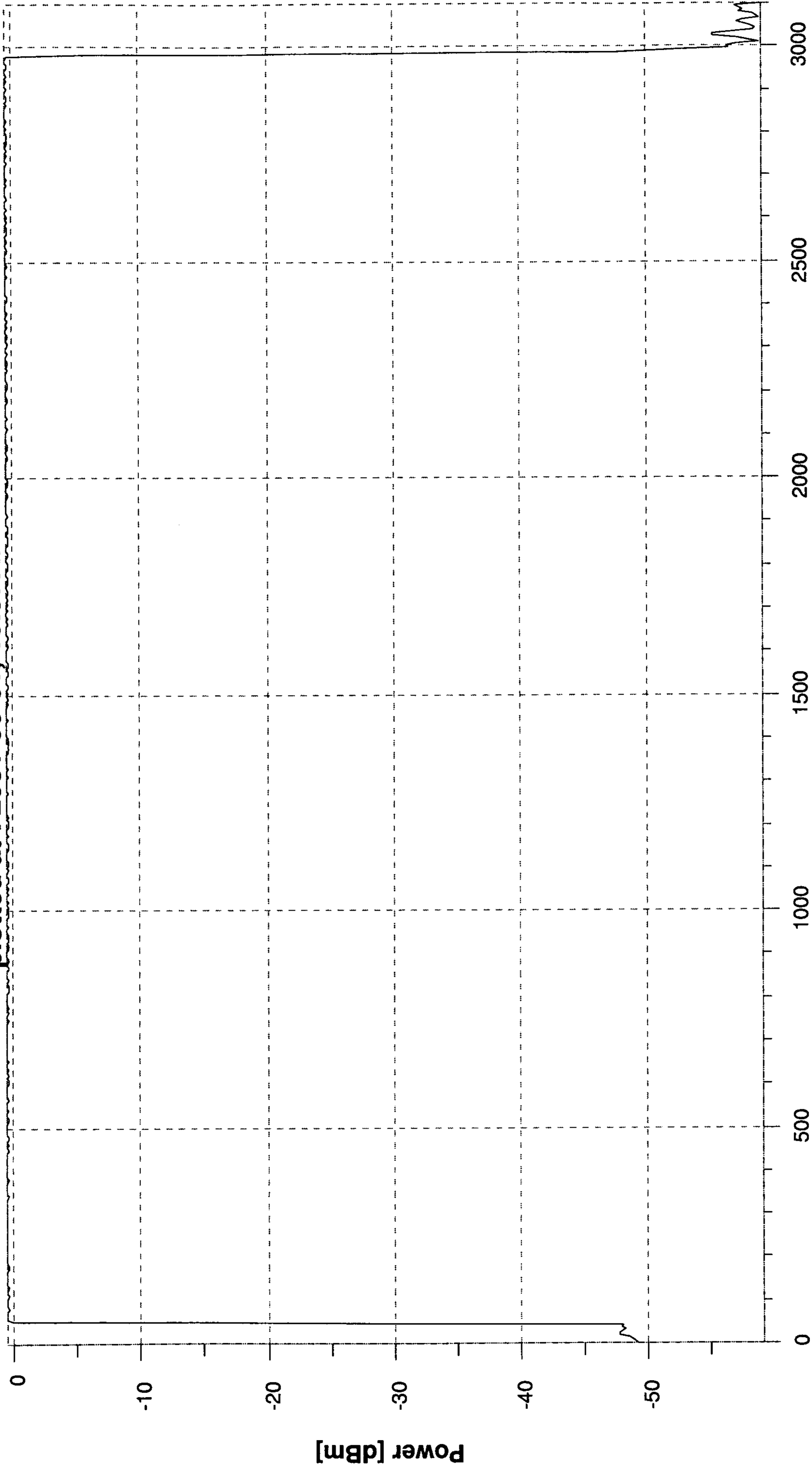
```

Manufacturer: Lesswire AG
Model: Bluetooth Access Point / Local Navigator Bluetooth Ba
se Station
Serial No: no info
Comment: no info
Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Pseudo Whitening: Off
Host Connection Request: NO
EUT Address: 00000000A001 hex
Tester Address: 008037122094 hex
Active Member Address: 00000007 hex

```

**Measured Burst TC Output Power -Measured EUT: Lessw_cert -EUT TX Frequency hopping (Meas:
2402.000 MHz)**

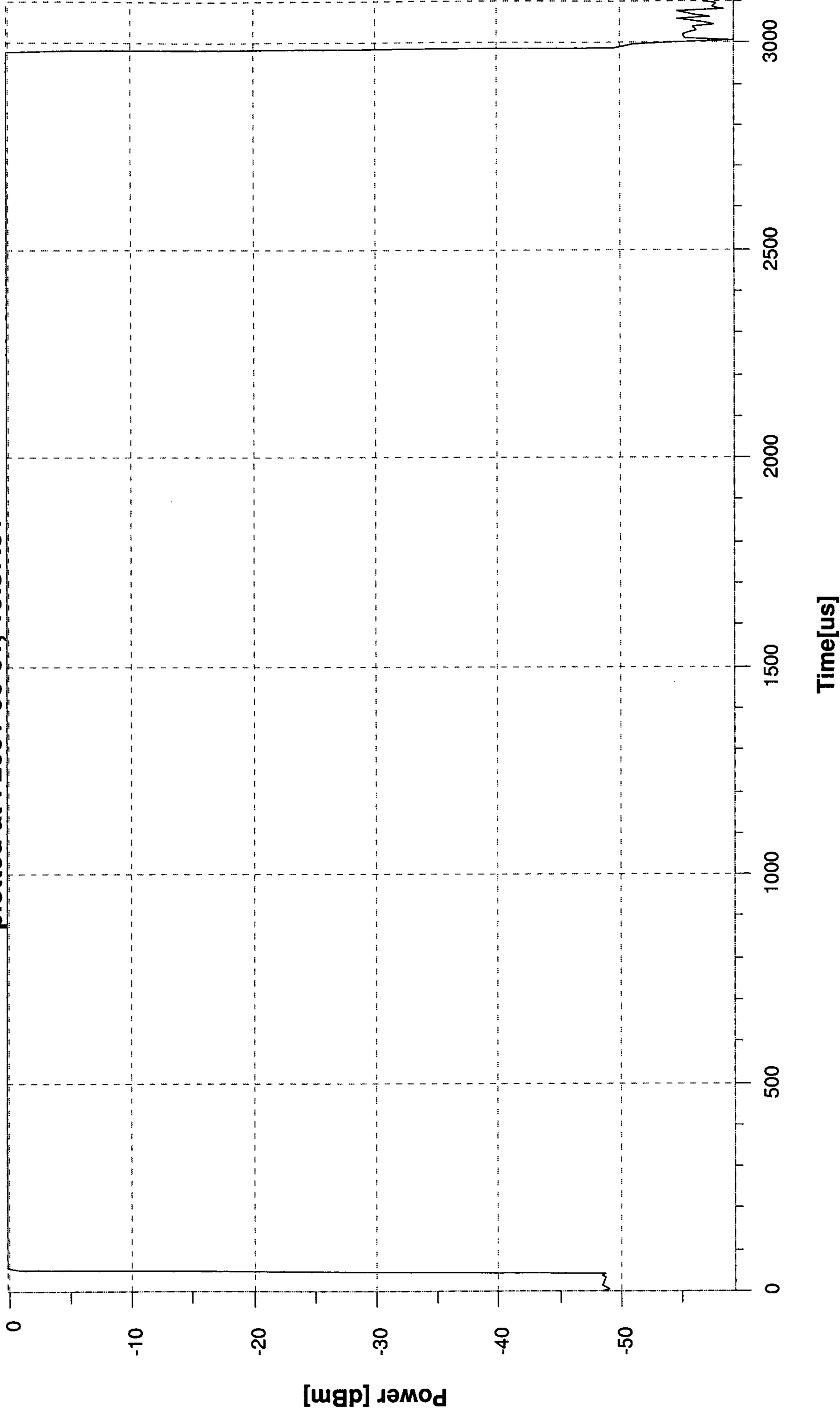
plotted at : 2001-06-01, 10:37:42



Time[us]

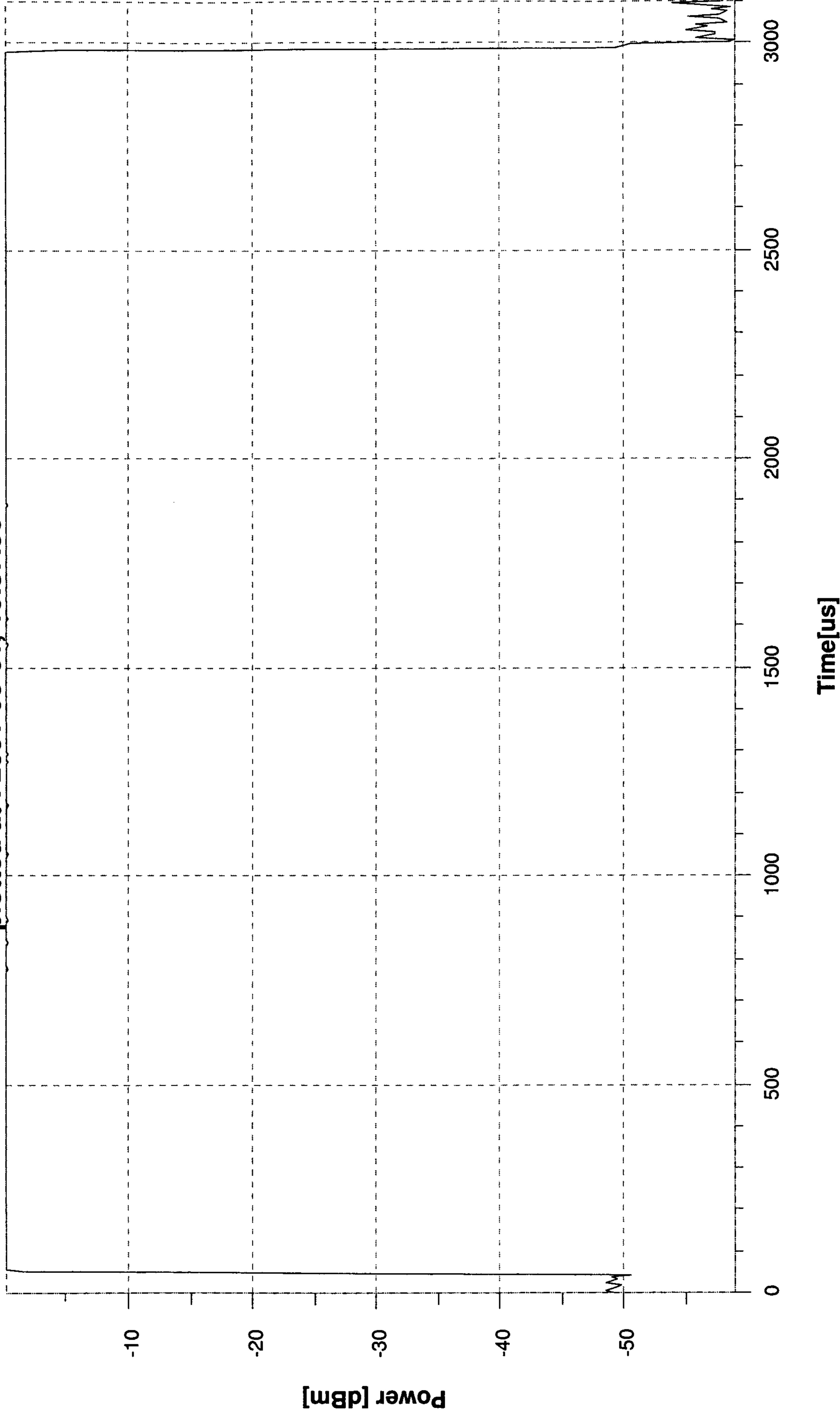
**Measured Burst TC Output Power -Measured EUT: Lessw_cert -EUT TX Frequency hopping (Meas:
2441.000 MHz)**

plotted at : 2001-06-01, 10:37:51



**Measured Burst TC Output Power -Measured EUT: Lessw_cert -EUT TX Frequency hopping (Meas:
2480.000 MHz)**

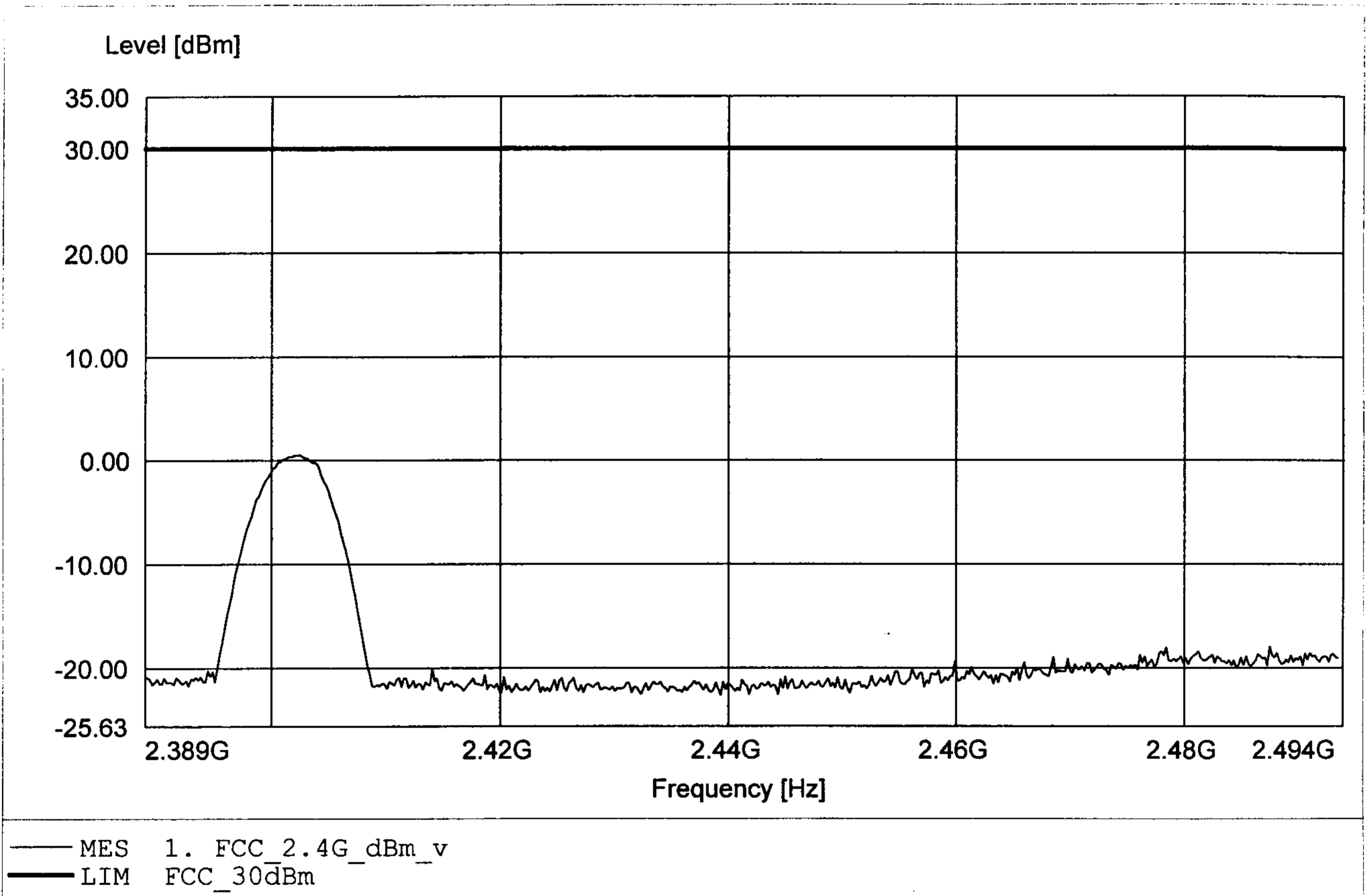
plotted at : 2001-06-01, 10:37:58



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

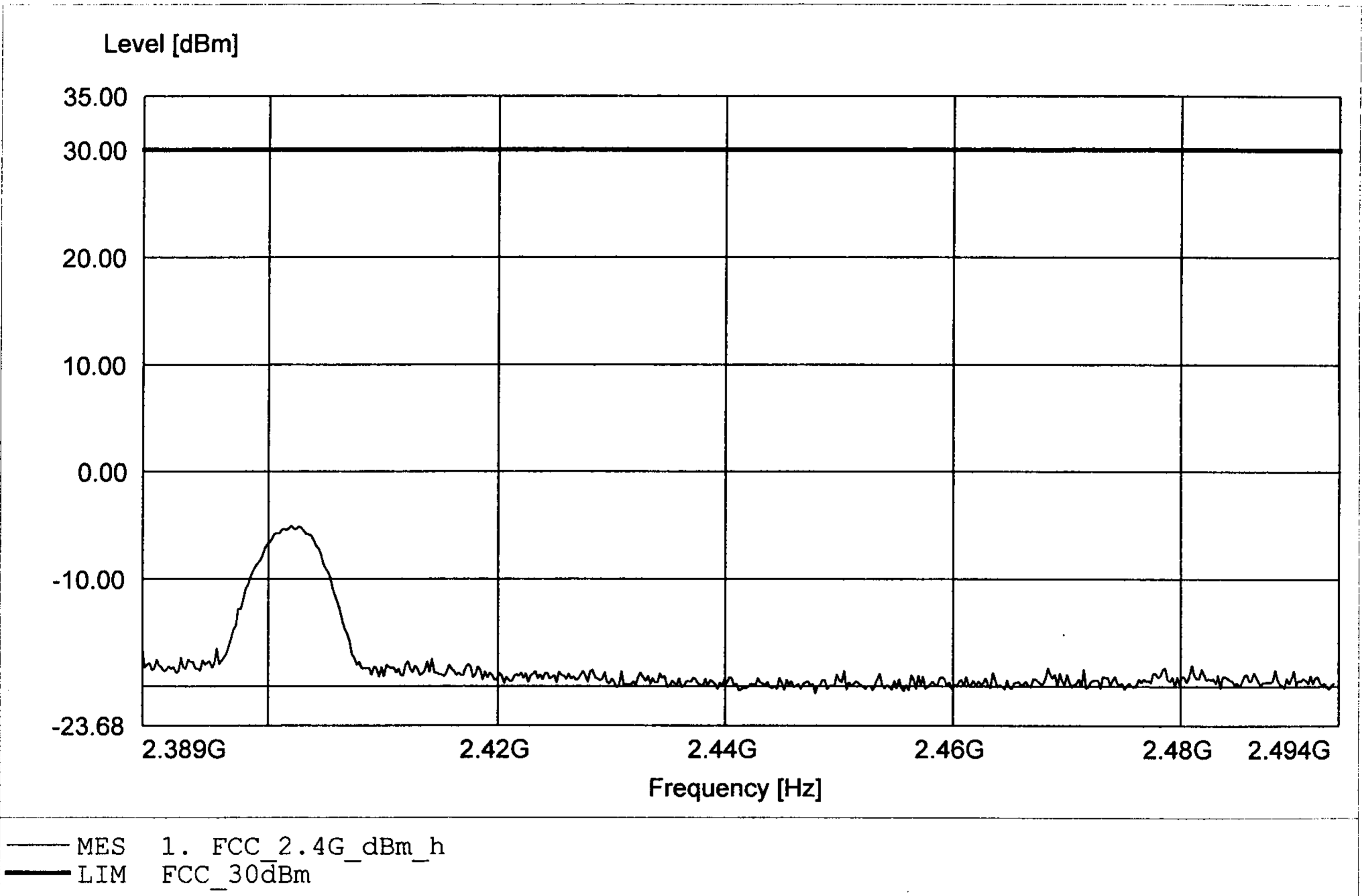
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.402GHz Pmax:0.52dBm RBW:5MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

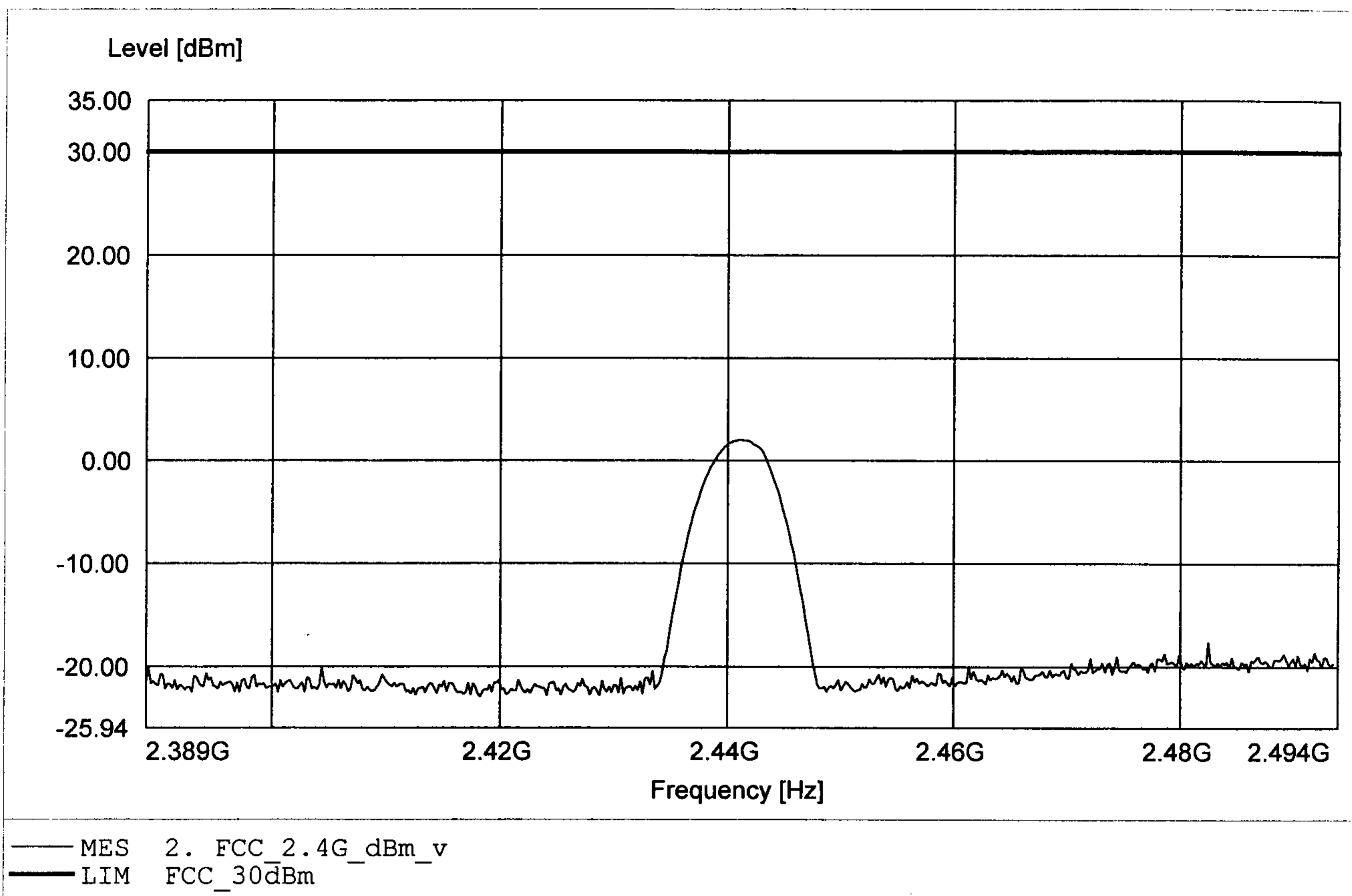
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.402GHz Pmax:-5.01dBm RBW:5MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

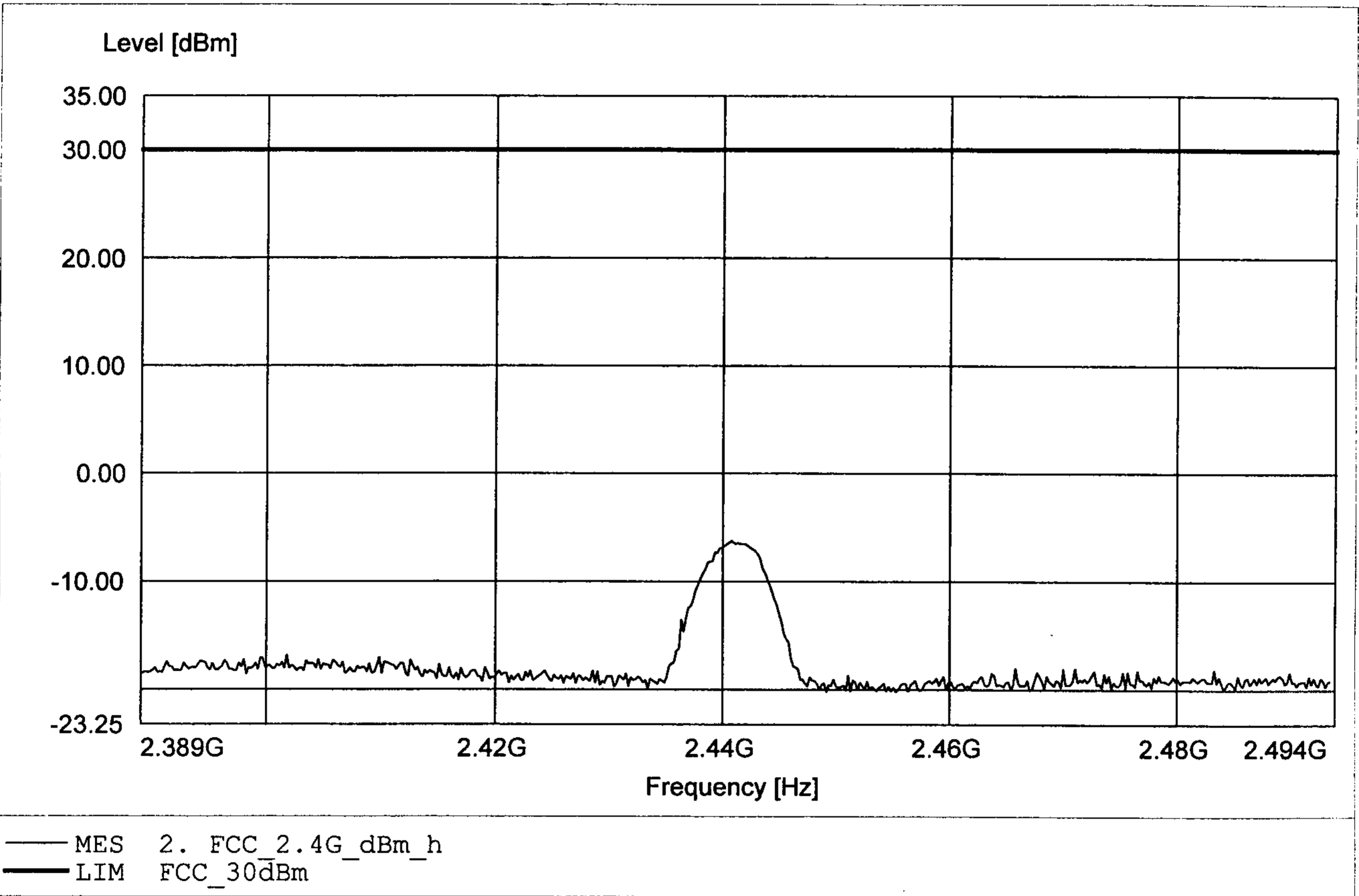
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.441GHz Pmax:2.02dBm RBW:5MHz



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

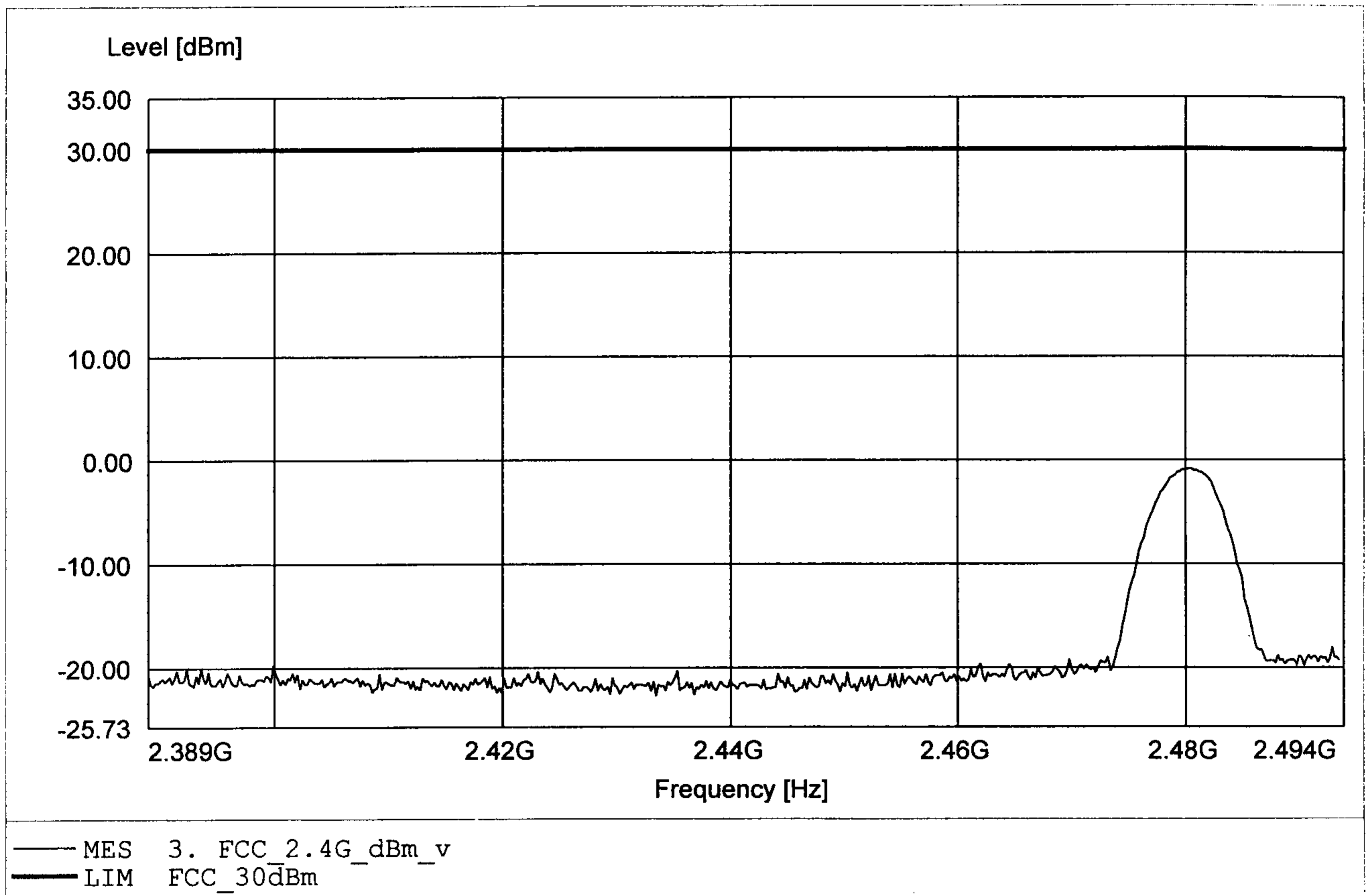
EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.441GHz Pmax:-6.23dBm RBW:5MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480MHz)
Applicant: Lesswire AG
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.481GHz Pmax:-0.84dBm RBW:5MHz

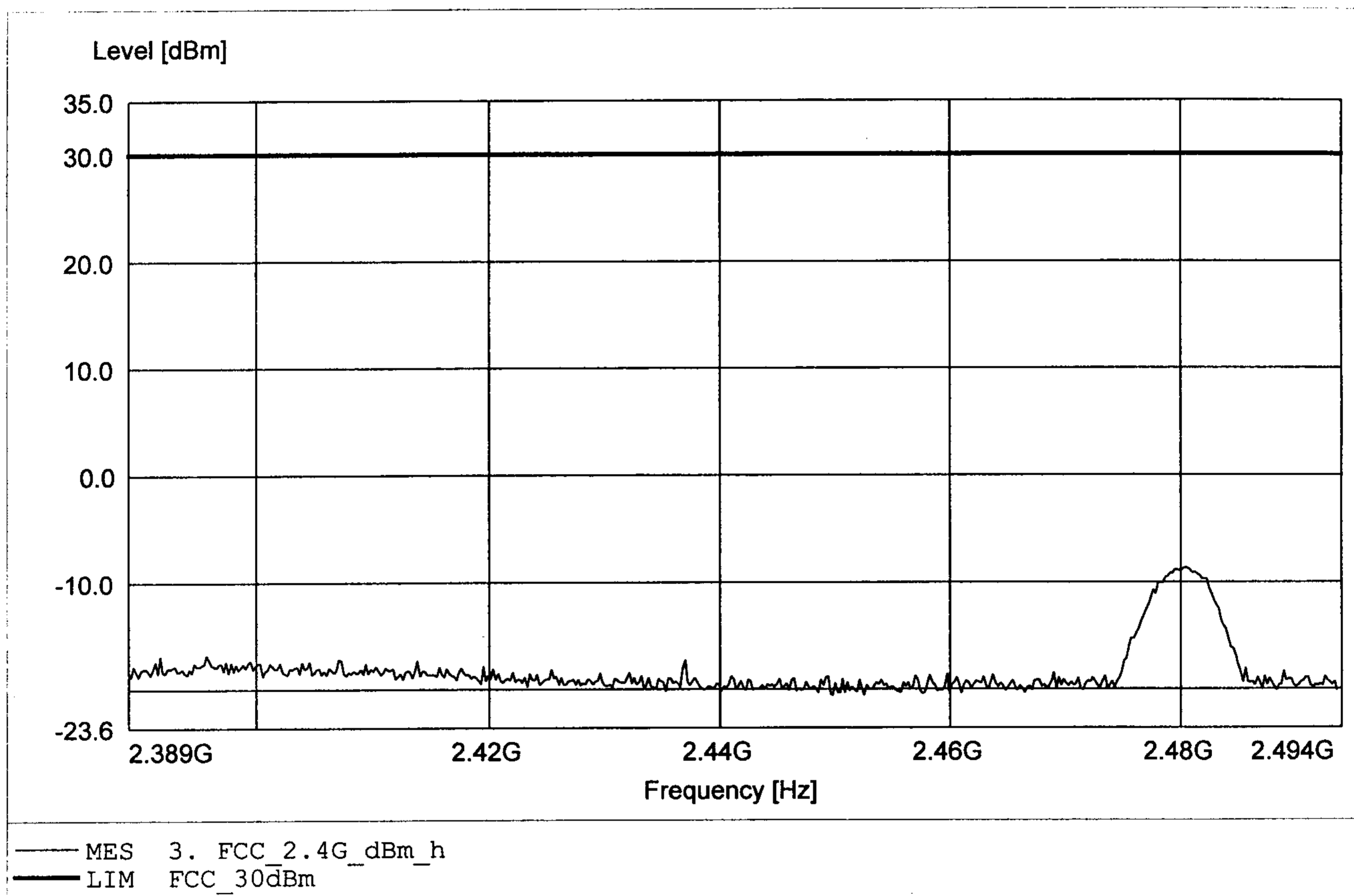


Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT / Model: Bluetooth Access Point / BS2
Applicant: Lesswire AG

(Tx 2480 MHz)

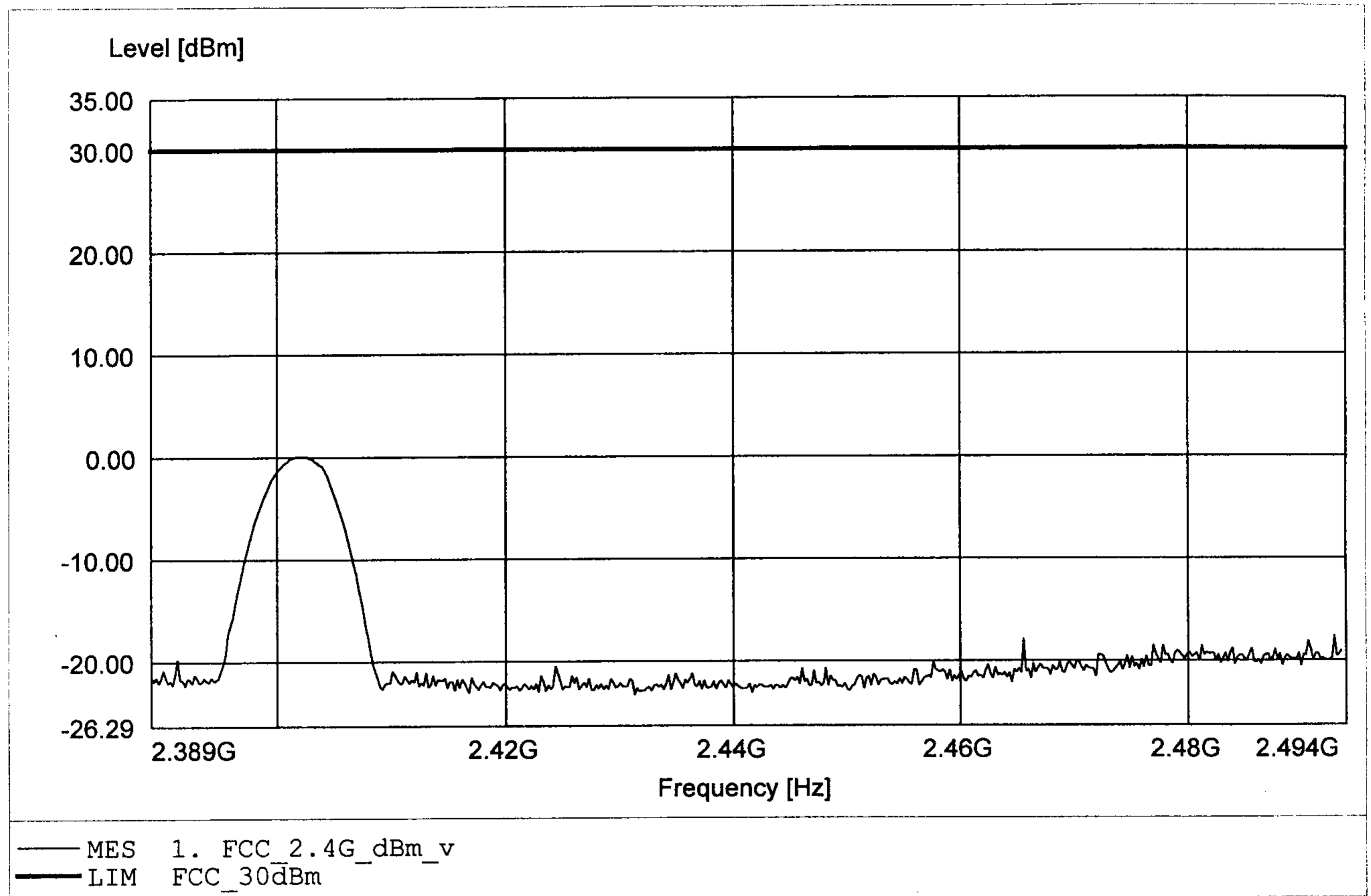
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.480GHz Pmax:-8.69dBm RBW:5MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

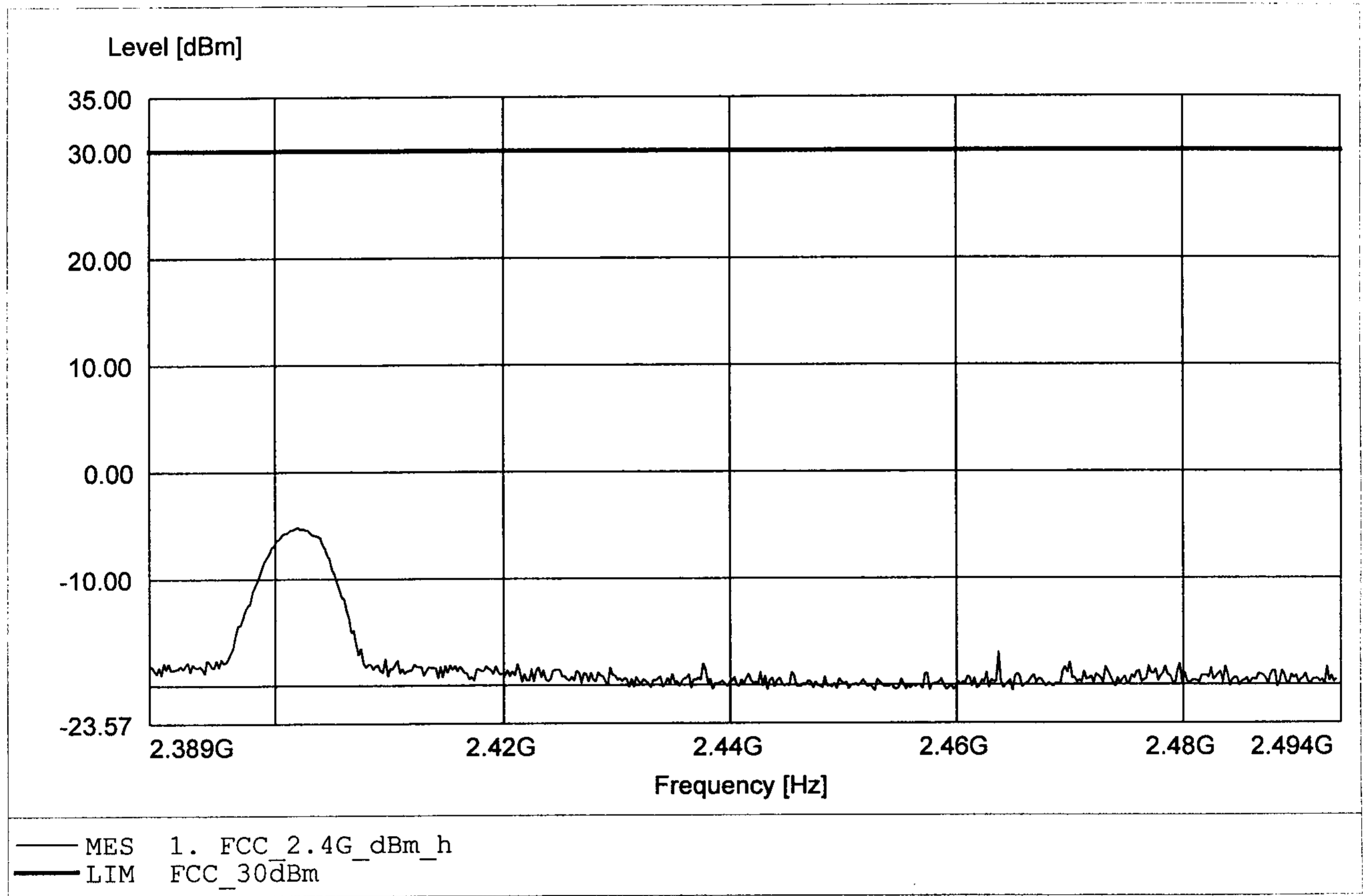
Temperature/ Voltage: t nom=25°C / Unom= 6V DC -15%
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.402GHz Pmax:0.07dBm RBW:5MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

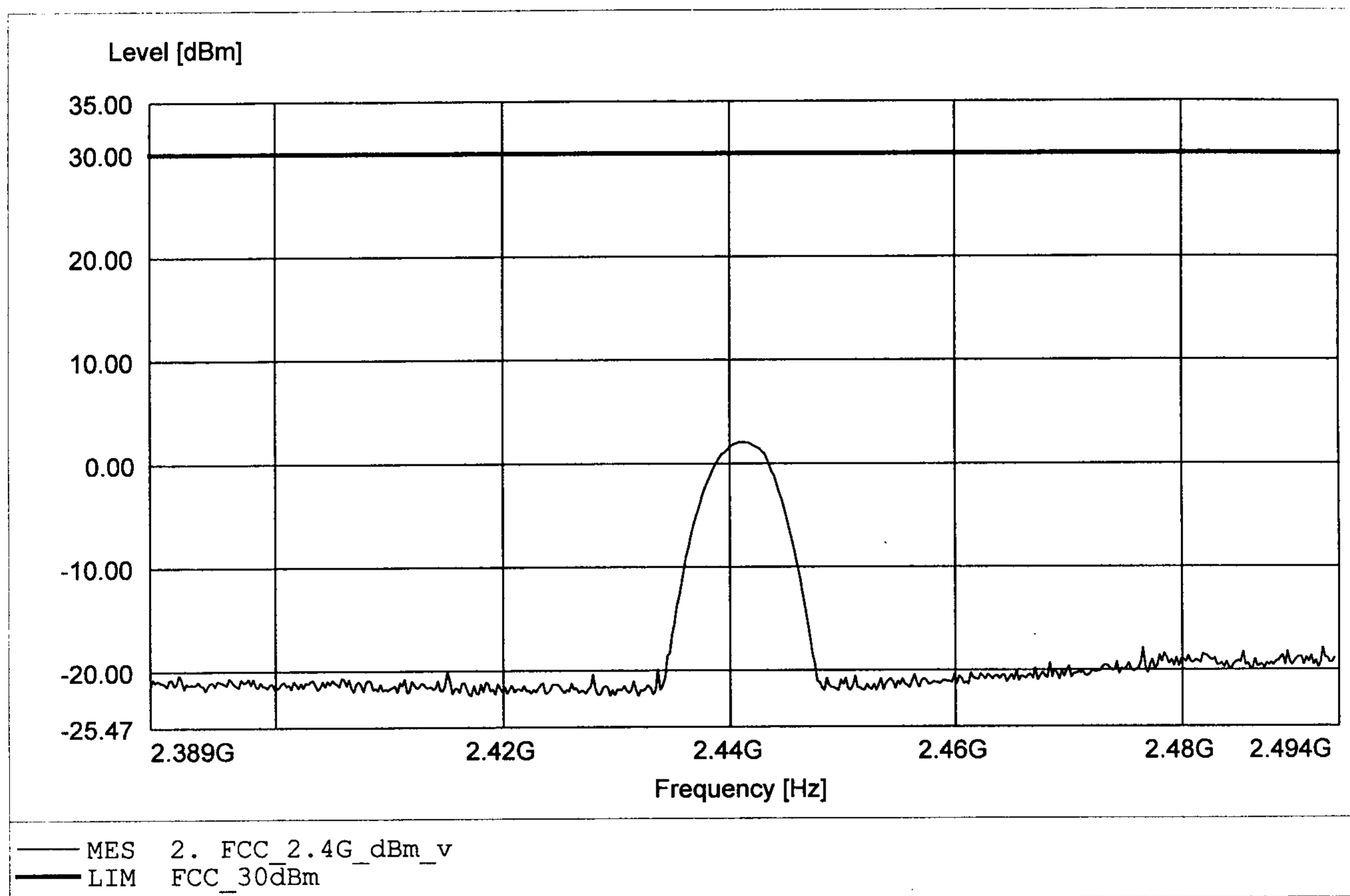
Temperature/ Voltage: t nom=25°C / Unom= 6V DC -15%
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.402GHz Pmax:-5.14dBm RBW:5MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

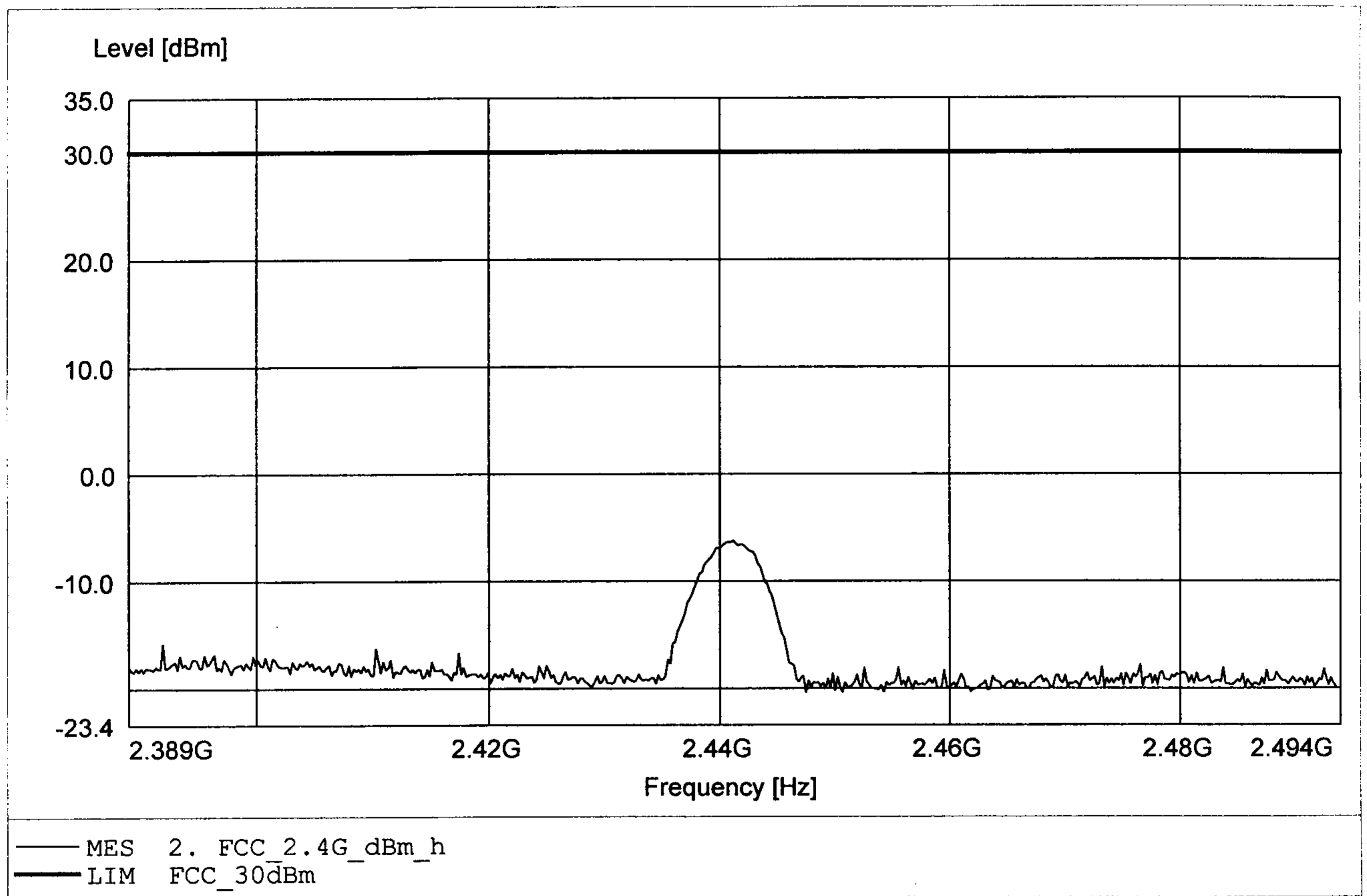
Temperature/ Voltage: t nom=25°C / Unom= 6V DC -15%
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.441GHz Pmax:2.09dBm RBW:5MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

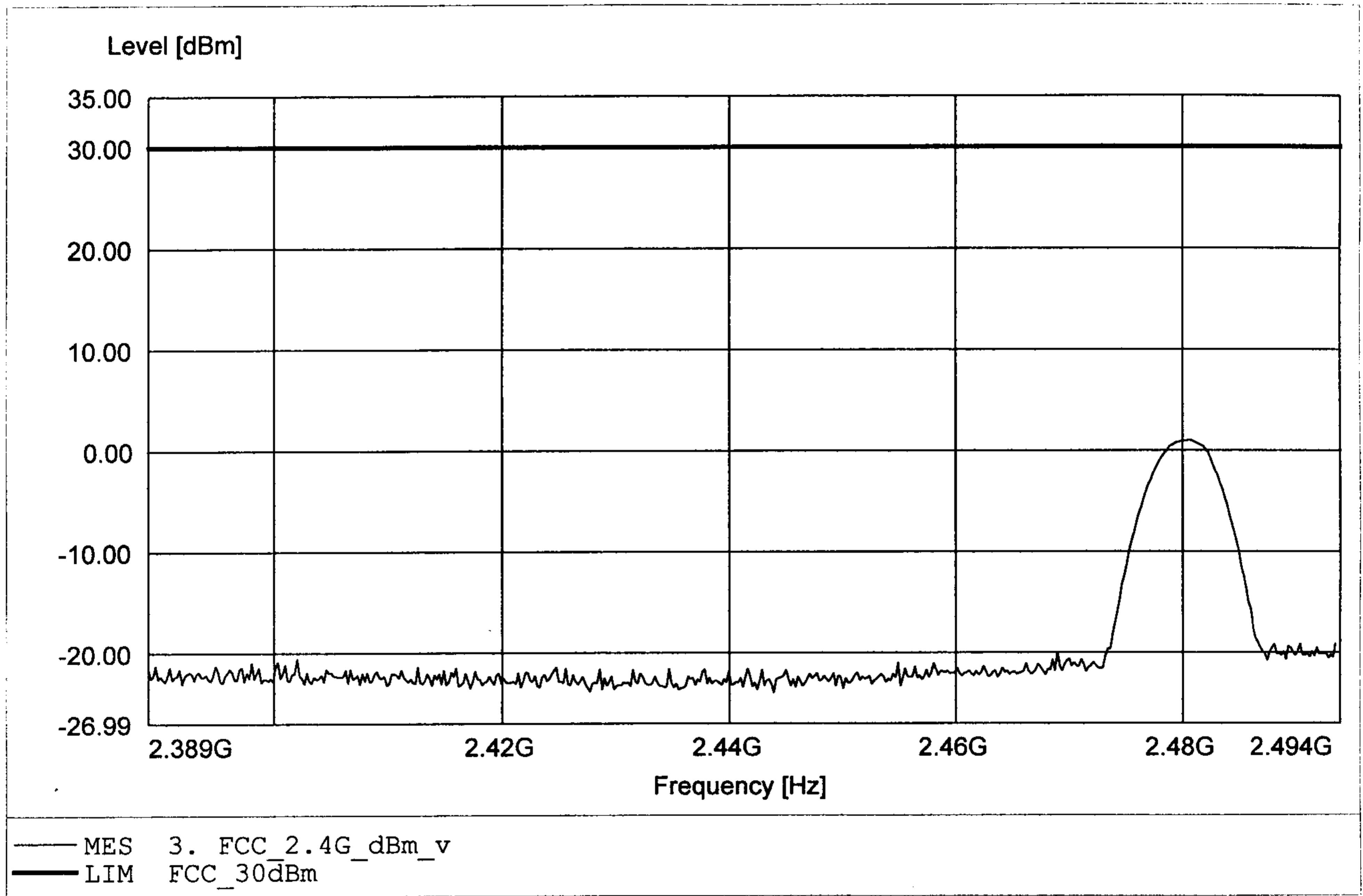
Temperature/ Voltage: t nom=25°C / Unom= 6V DC -15%
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.441GHz Pmax:-6.24dBm RBW:5MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG

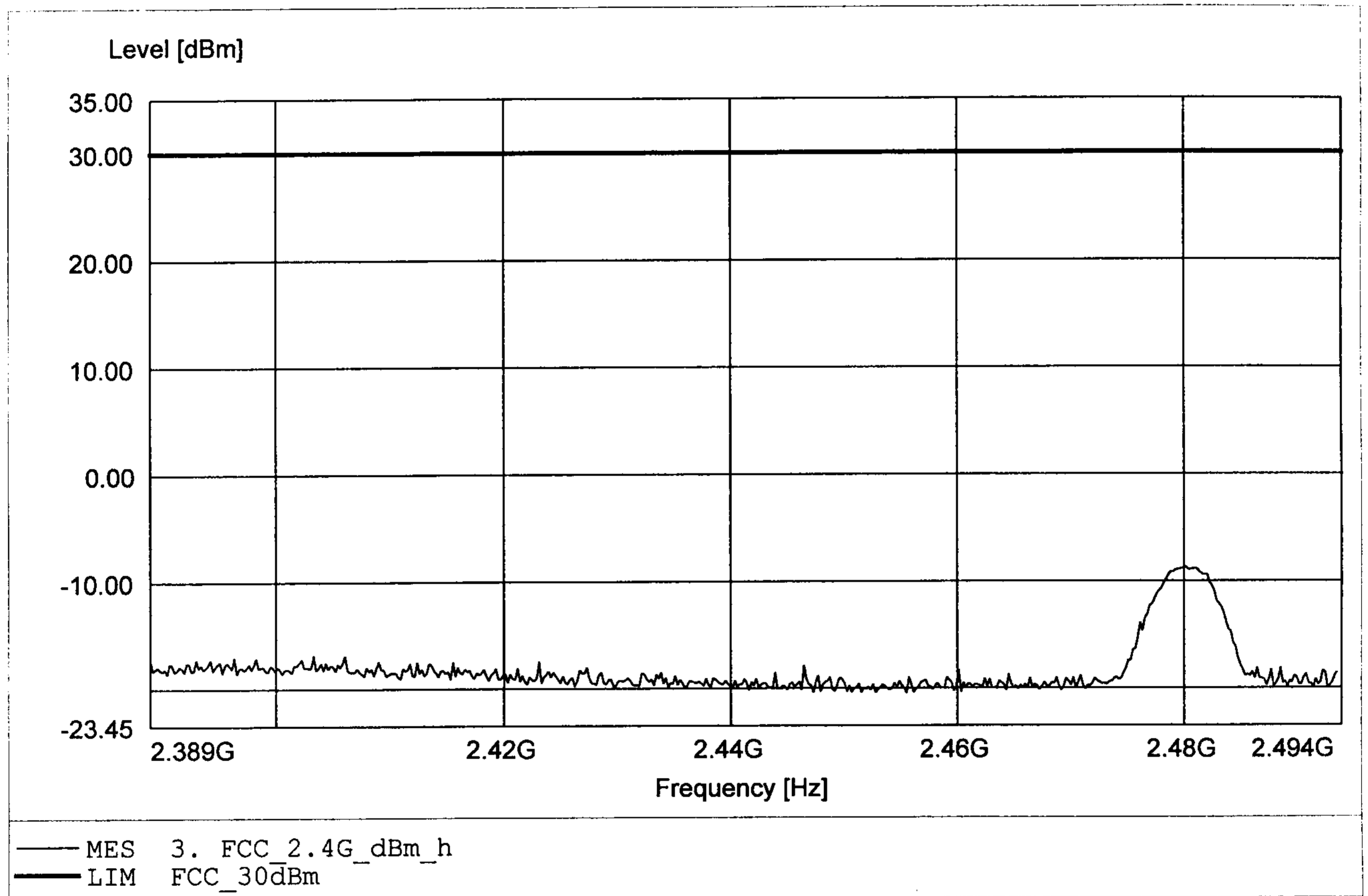
Temperature/ Voltage: t nom=25°C / Unom= 6V DC -15%
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.481GHz Pmax:1.01dBm RBW:5MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG

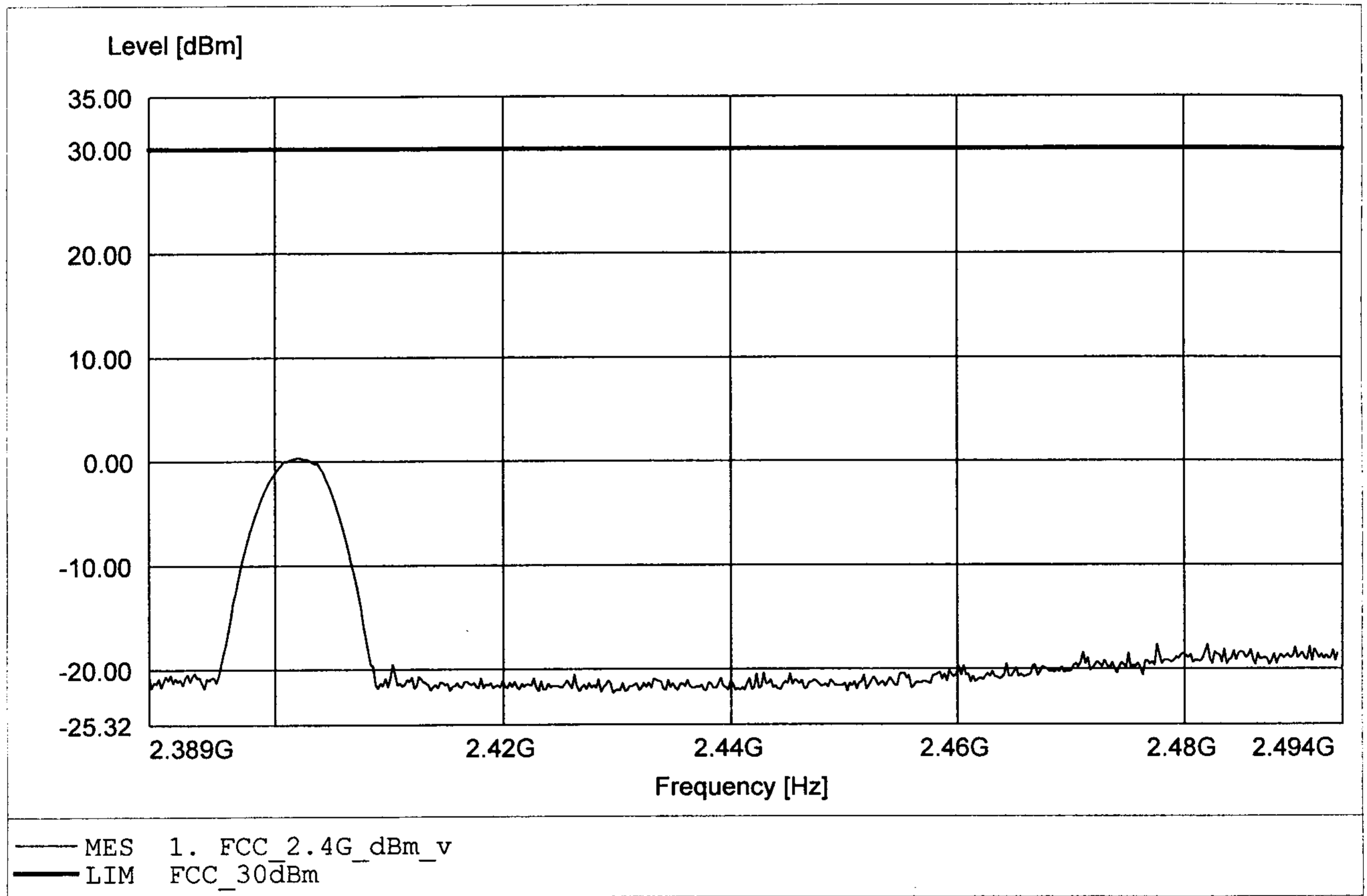
Temperature/ Voltage: t nom=25°C / Unom= 6V DC -15%
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.480GHz Pmax:-8.68dBm RBW:5MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

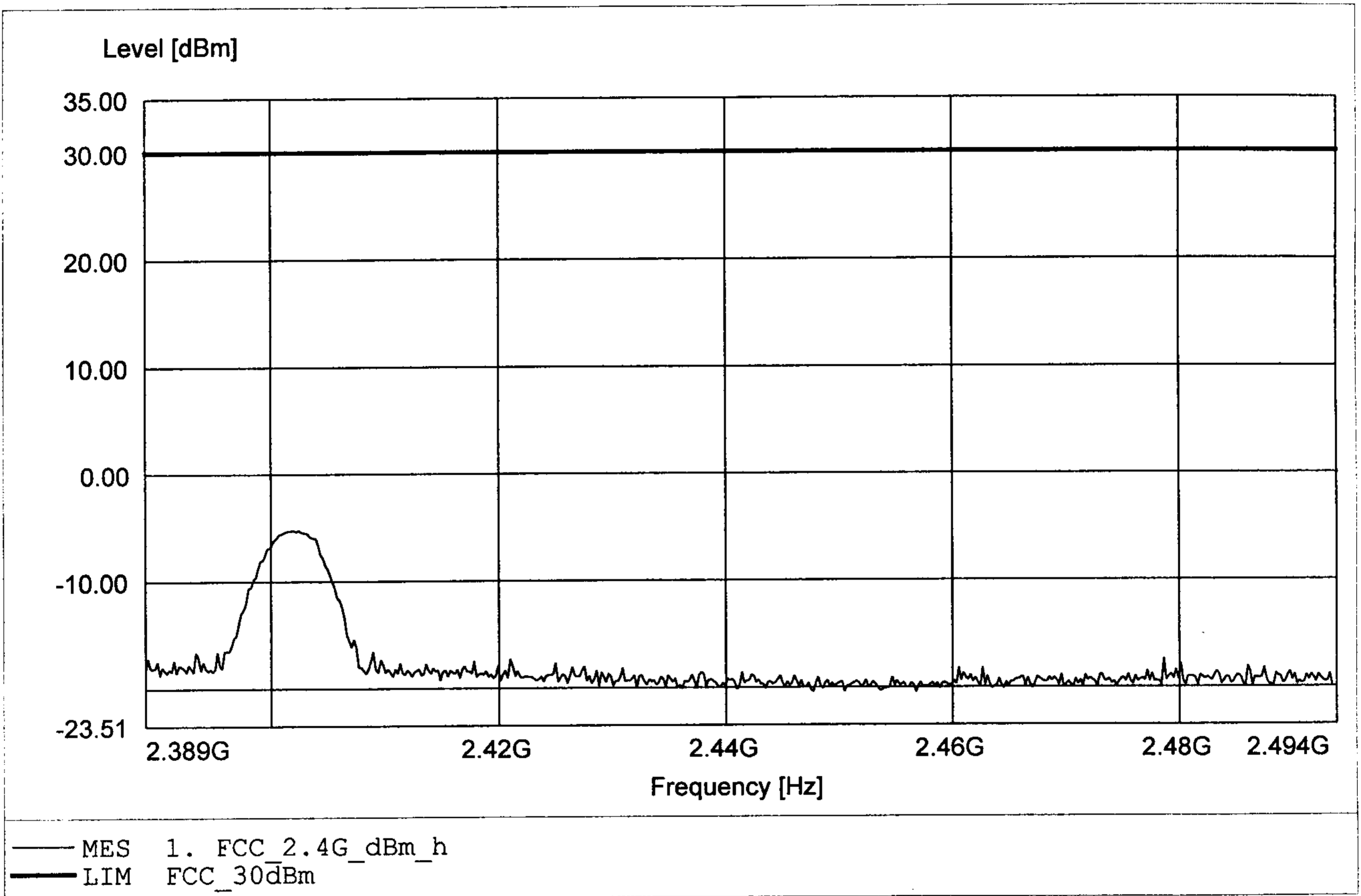
Temperature/ Voltage: t nom=25°C / Unom= 6V DC +15%
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.402GHz Pmax:0.35dBm RBW:5MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

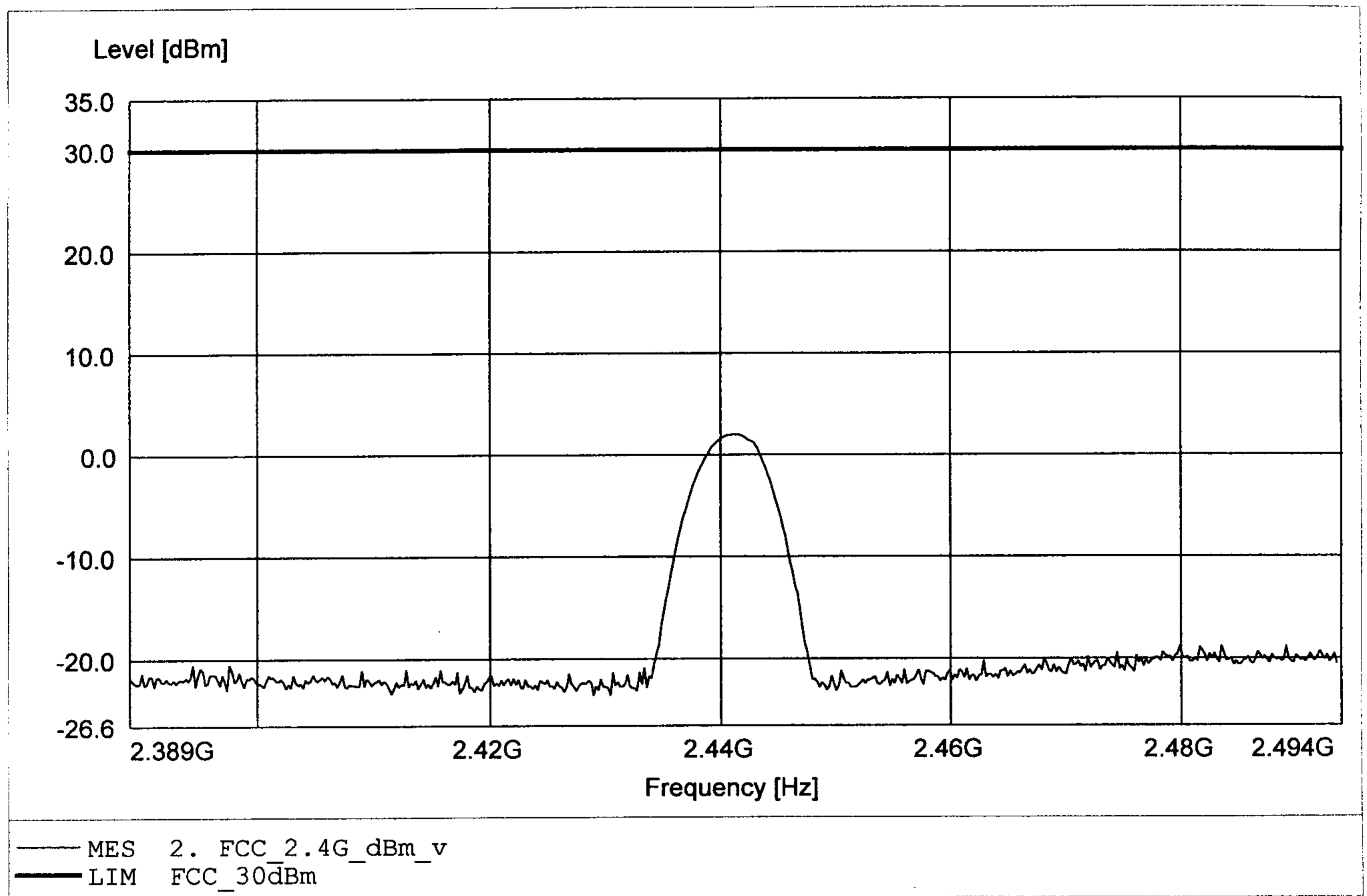
Temperature/ Voltage: t nom=25°C / Unom= 6V DC +15%
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.402GHz Pmax:-5.22dBm RBW:5MHz



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

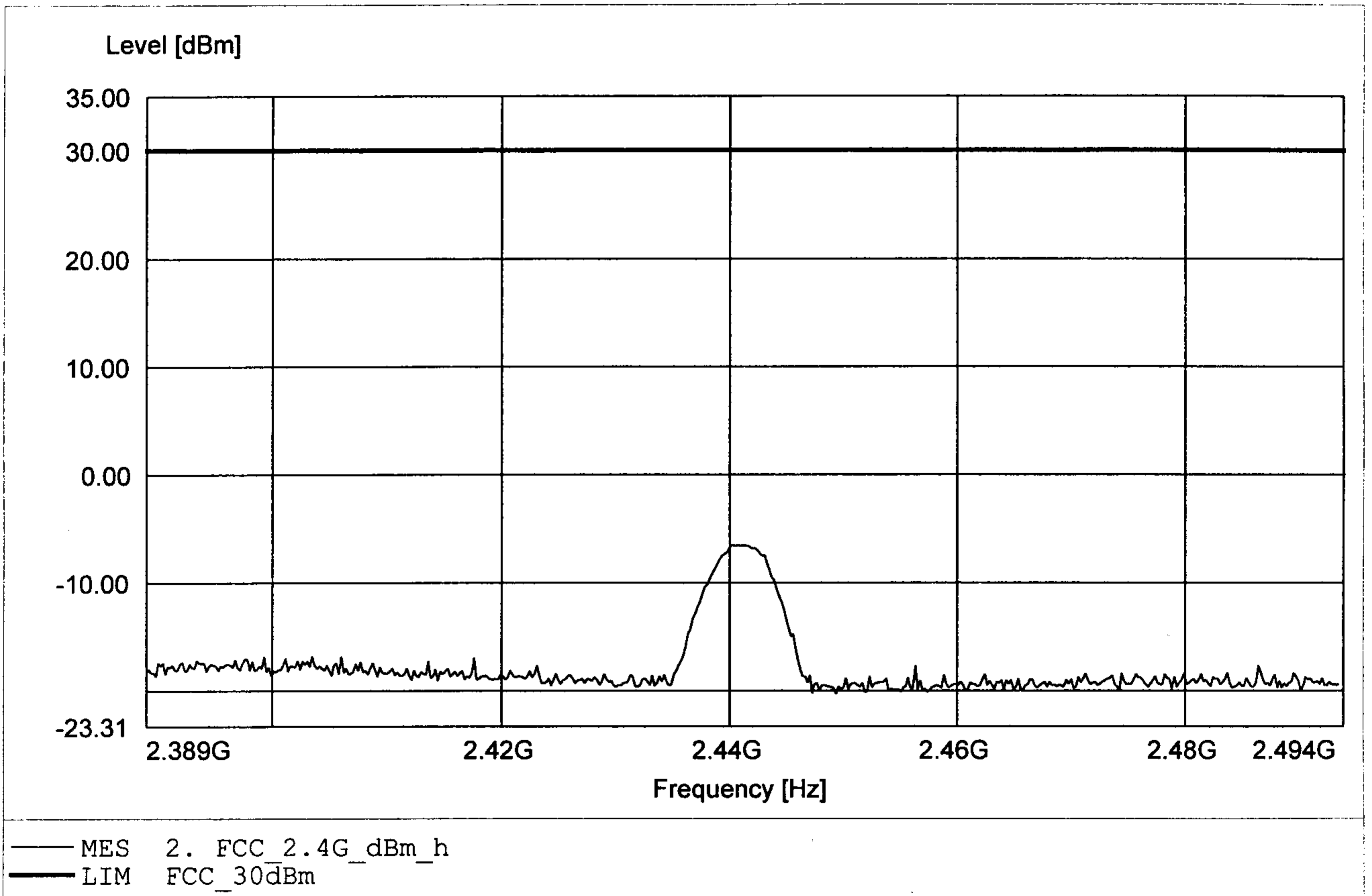
EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

Temperature/ Voltage: t nom=25°C / Unom= 6V DC +15%
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.441GHz Pmax:2.02dBm RBW:5MHz



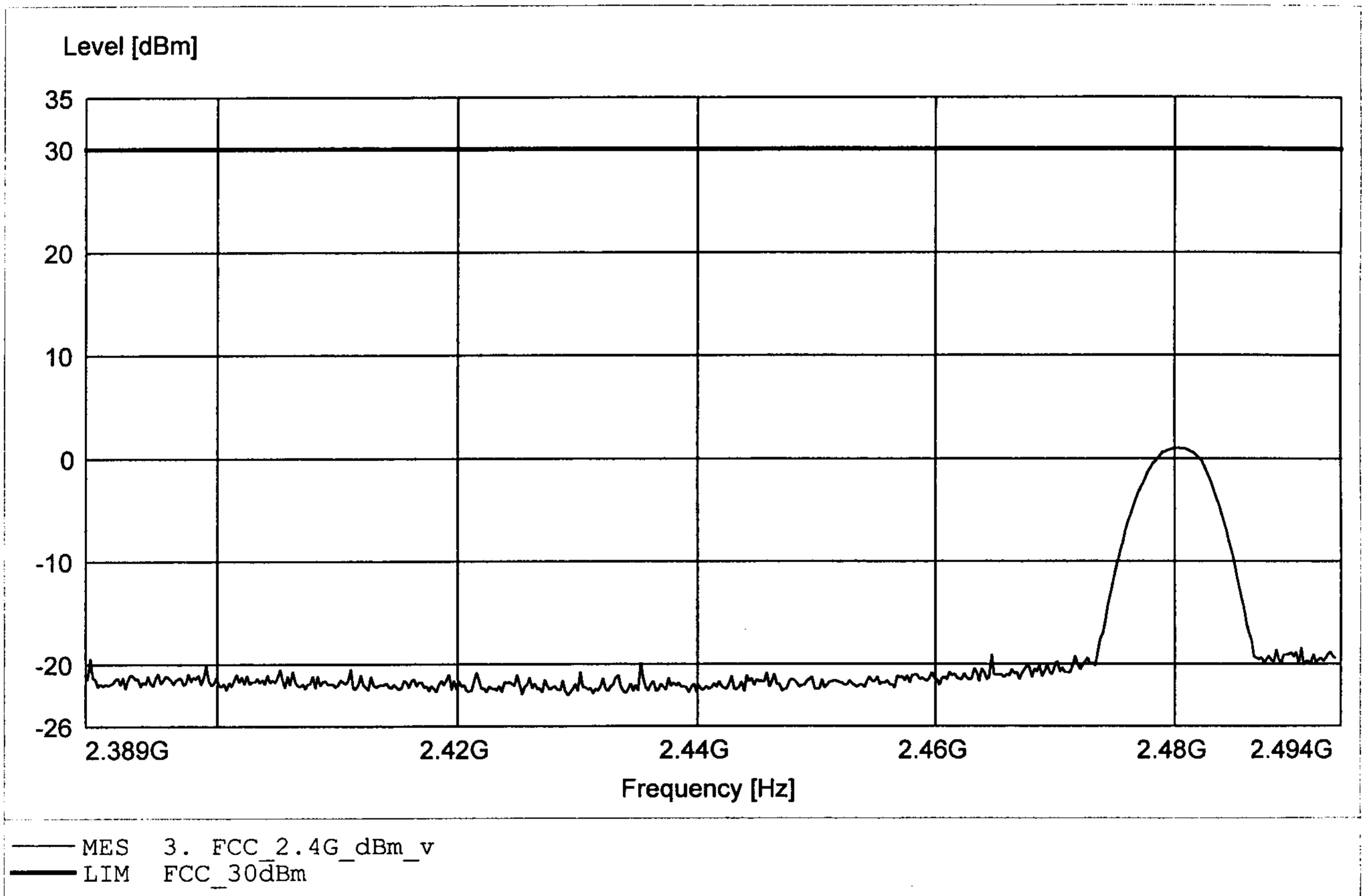
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG
Temperature/ Voltage: t nom=25°C / Unom= 6V DC +15%
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.440GHz Pmax:-6.54dBm RBW:5MHz



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

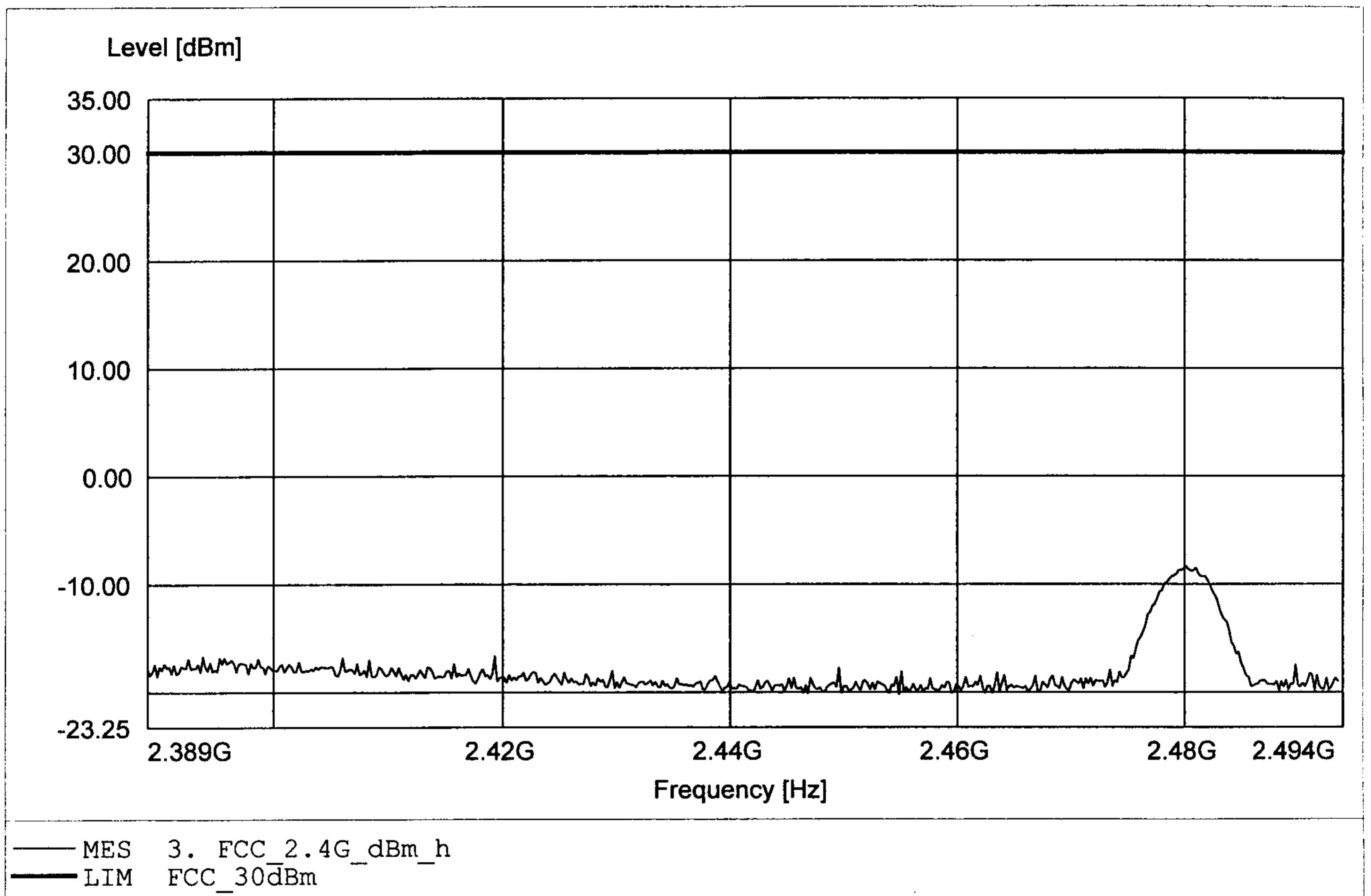
EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG
Temperature/ Voltage: t nom=25°C / Unom= 6V DC +15%
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.480GHz Pmax:1.01dBm RBW:5MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG

Temperature/ Voltage: t nom=25°C / Unom= 6V DC +15%
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq:2.480GHz Pmax:-8.35dBm RBW:5MHz





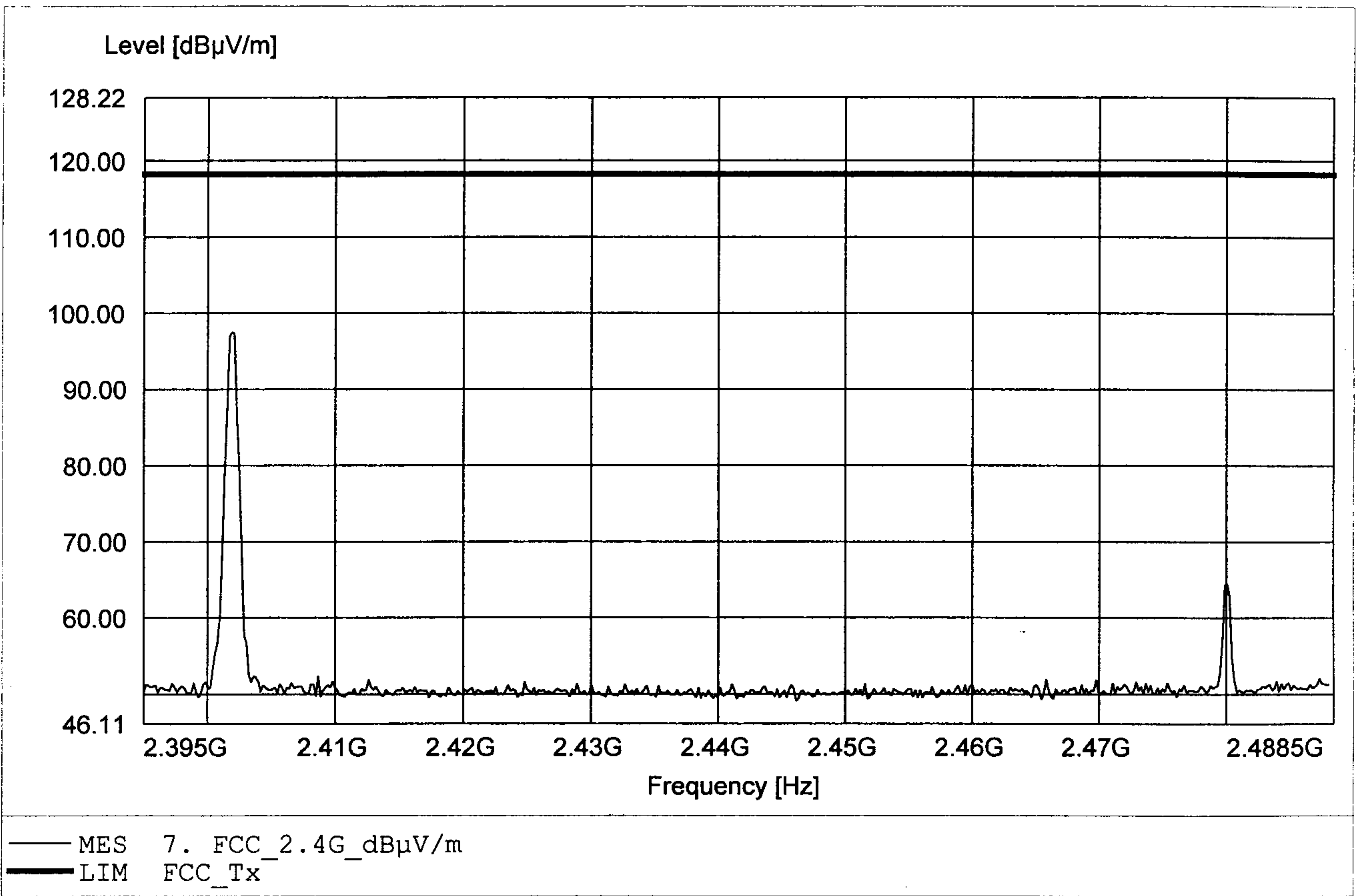
Appendix C

Spurious Emissions radiated - Transmitter operating

**Carrier power (Field Strength)
FCC RULES PART 15, SUBPART C**

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

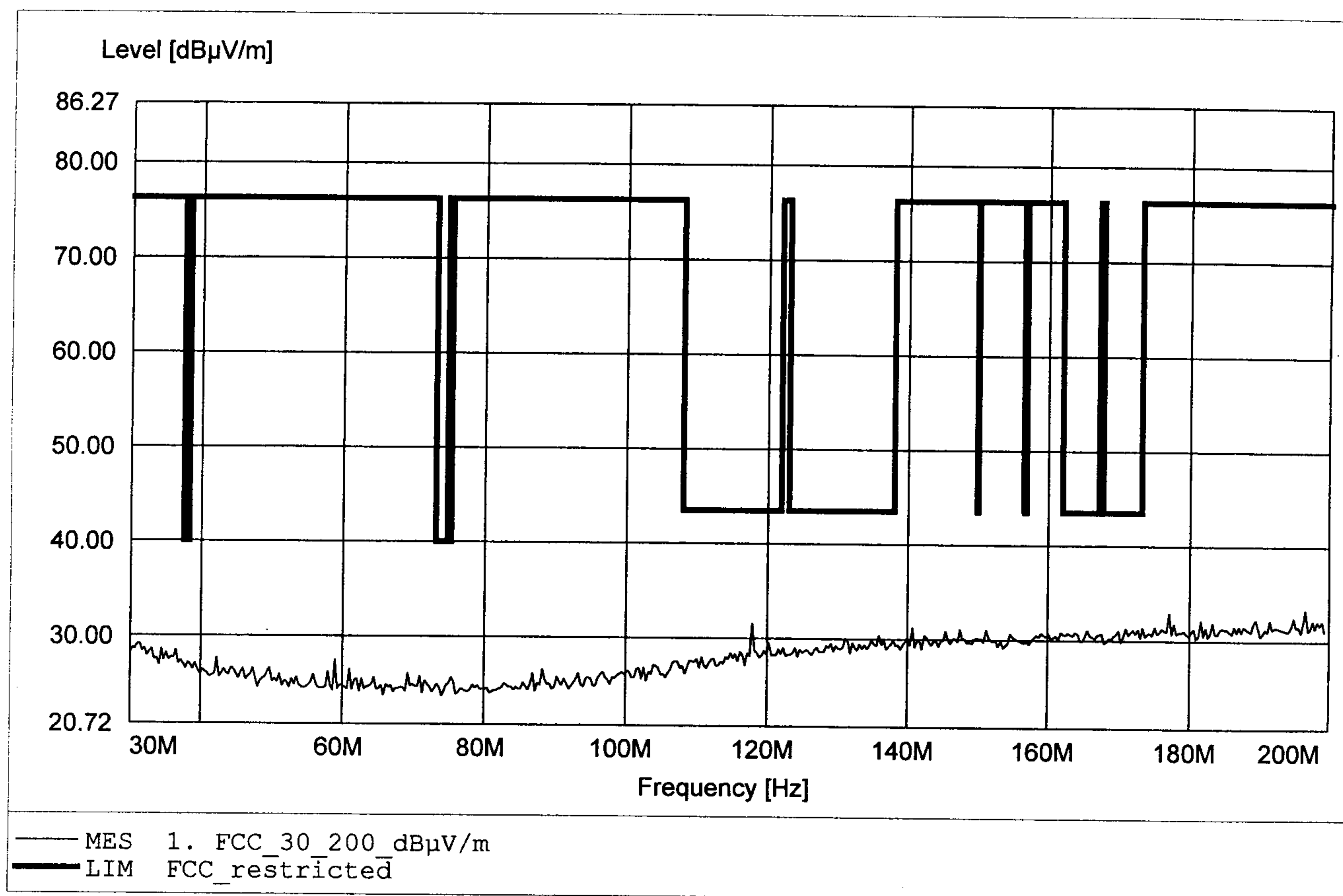
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D
Comment 2: Freq:2.402GHz Emax:97.48dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

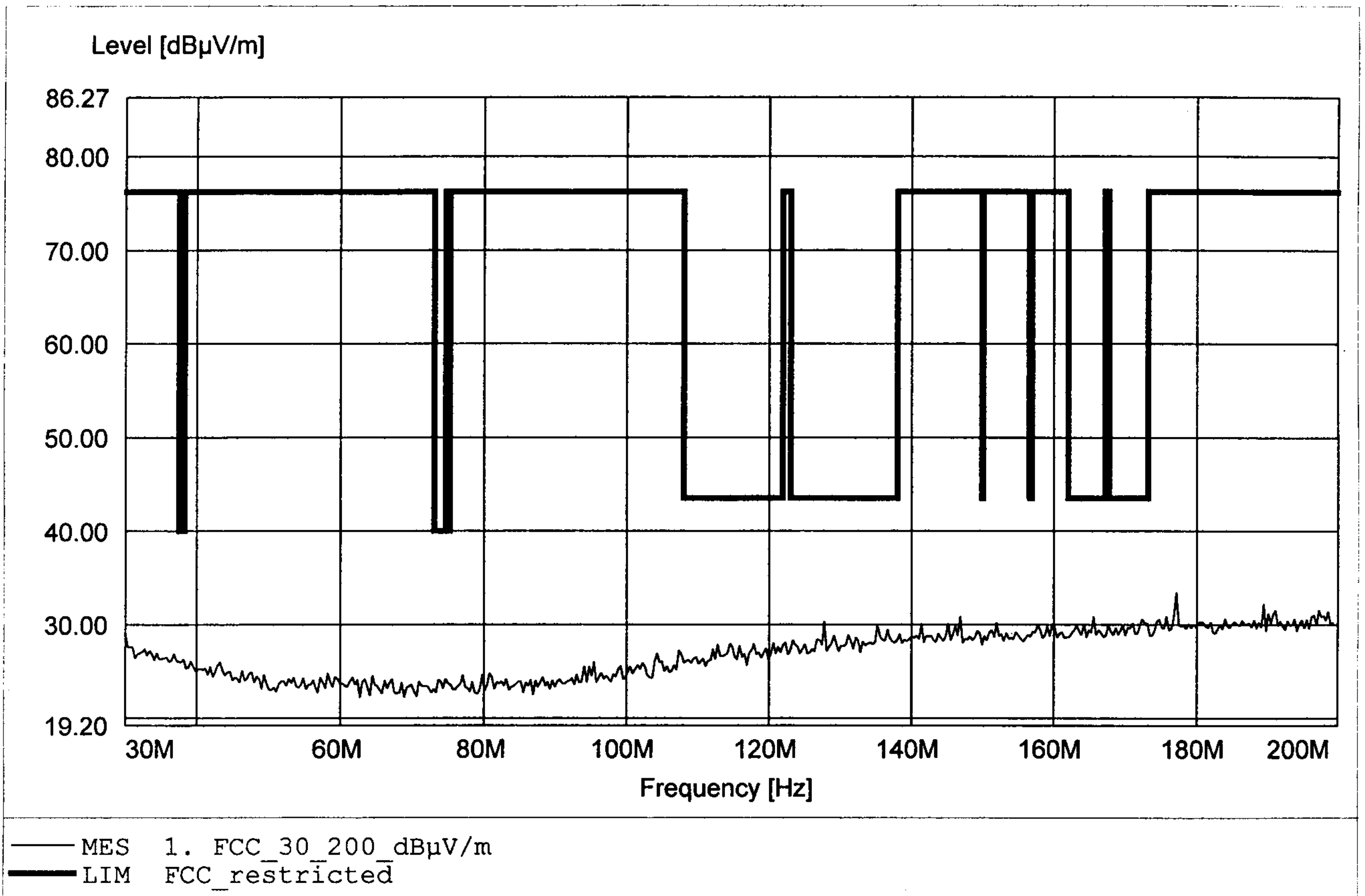
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:196.593MHz Emax:33.35dBµV/m RBW:100KHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402MHz)
Applicant: Lesswire AG

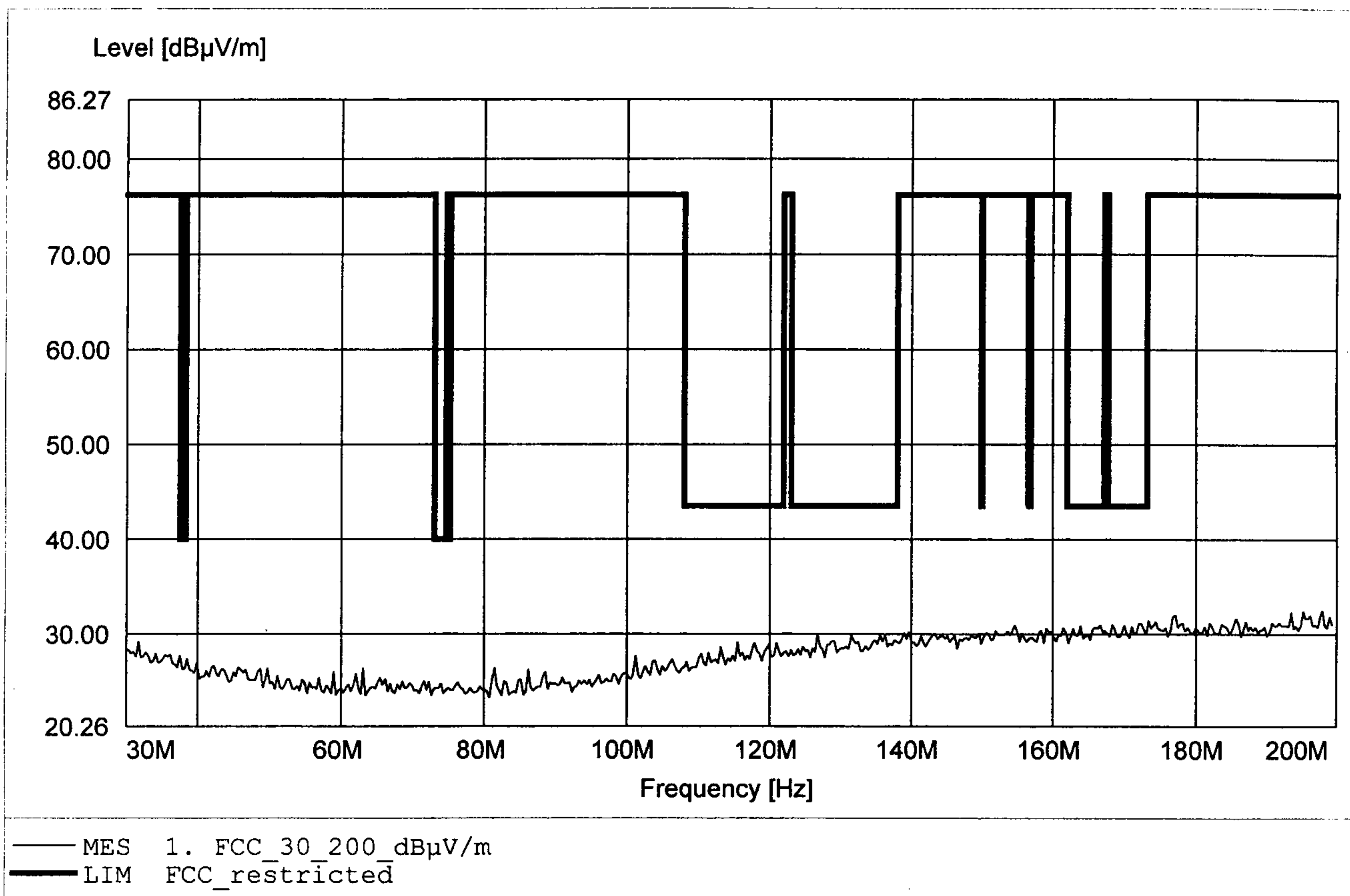
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:177.174MHz Emax:33.42dBµV/m RBW:100KHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

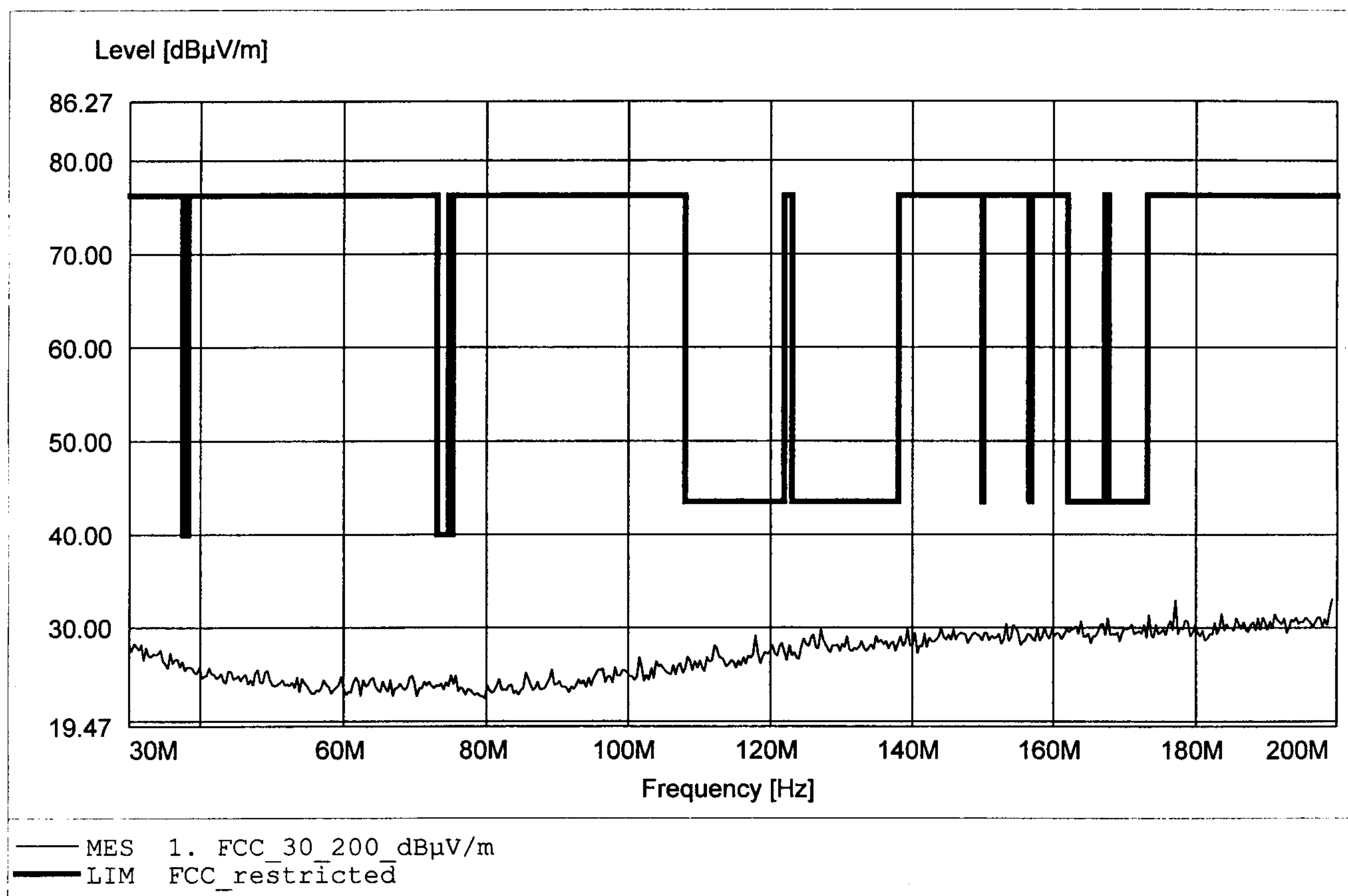
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:197.956MHz Emax:32.57dBµV/m RBW:100KHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441MHz)
Applicant: Lesswire AG

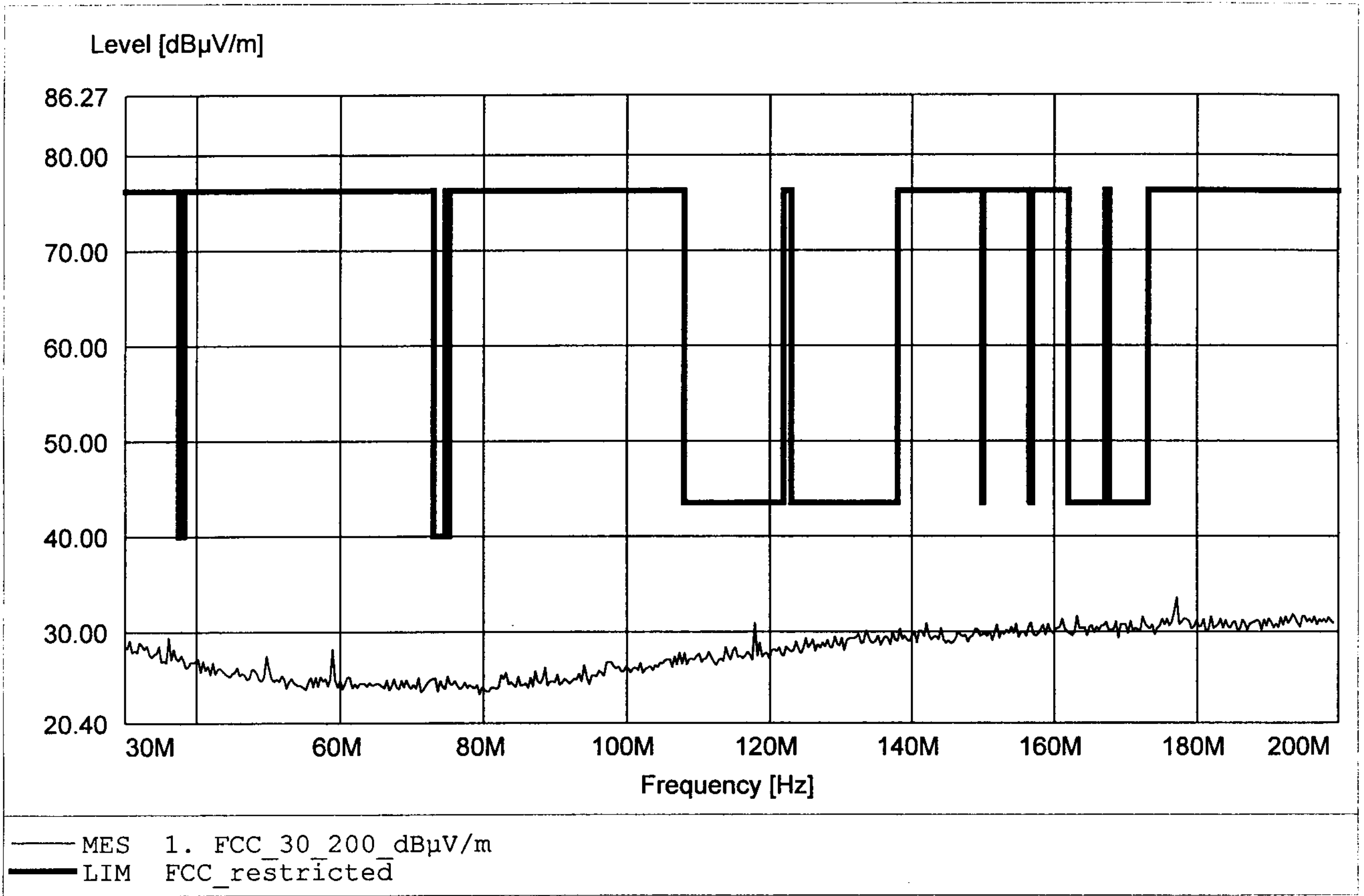
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:199.319MHz Emax:33.11dBµV/m RBW:100KHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480MHz)
Applicant: Lesswire AG

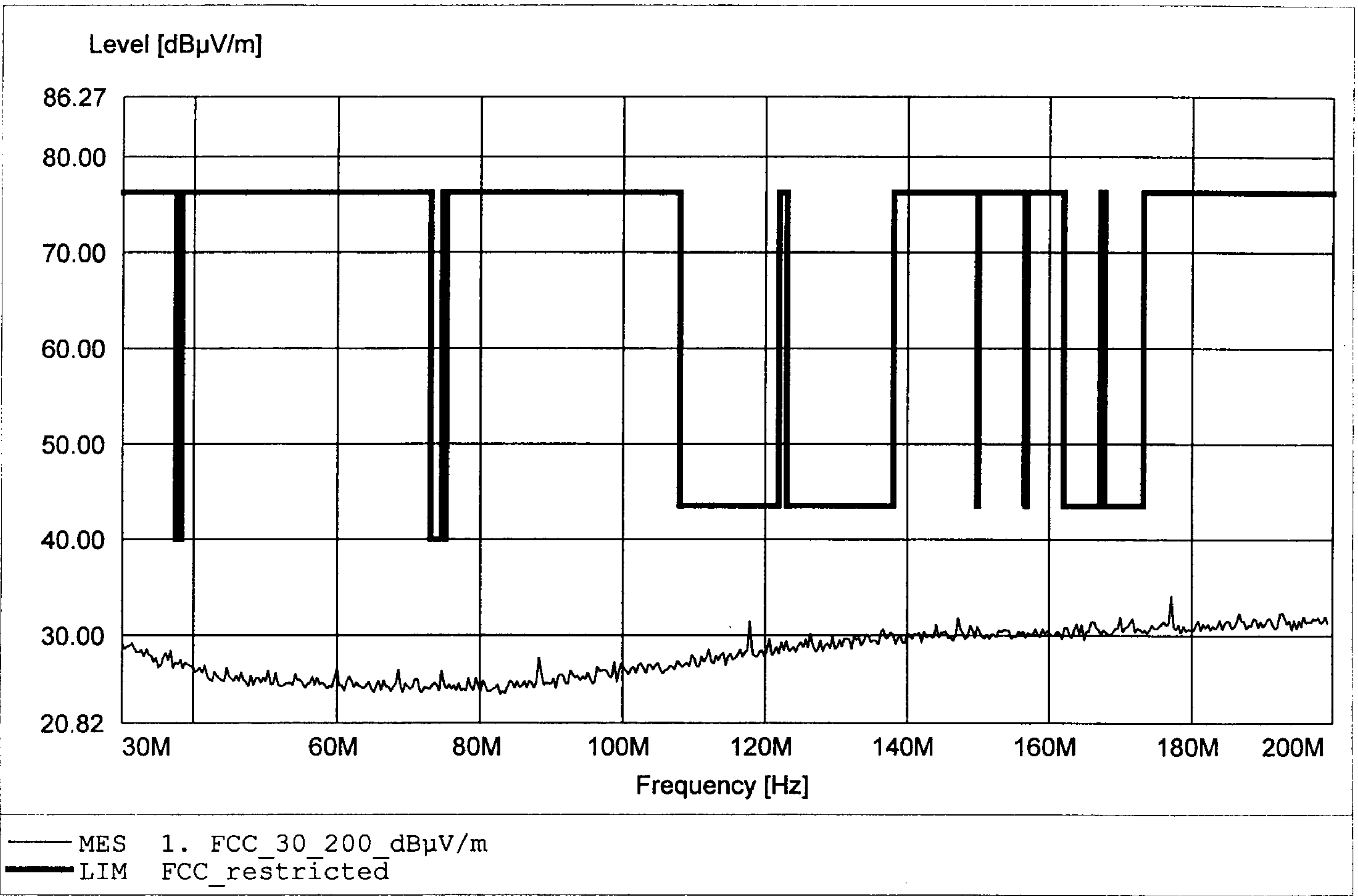
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:177.174MHz Emax:33.58dBµV/m RBW:100KHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480MHz)
Applicant: Lesswire AG

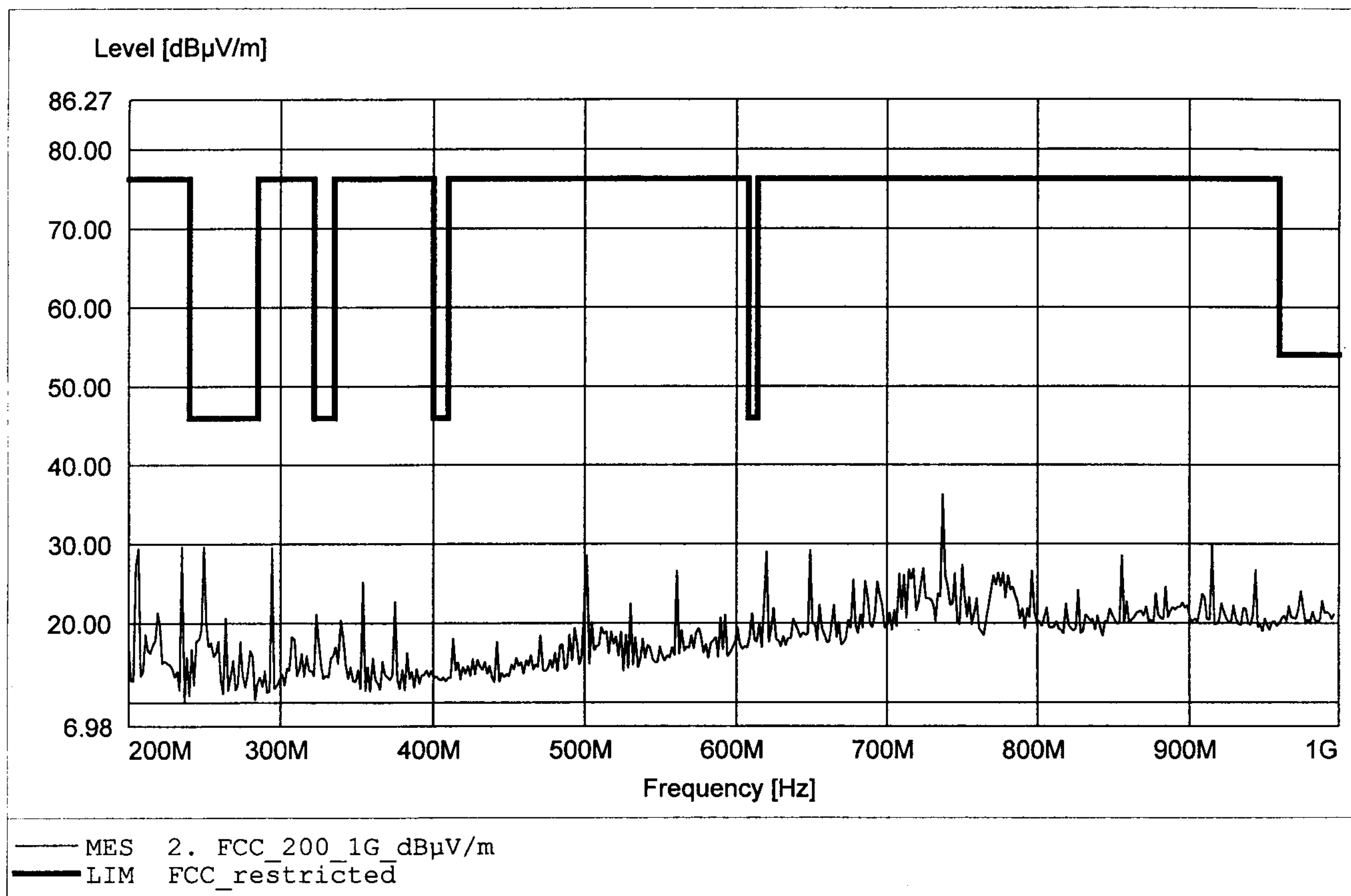
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:177.174MHz Emax:34.12dBµV/m RBW:100KHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

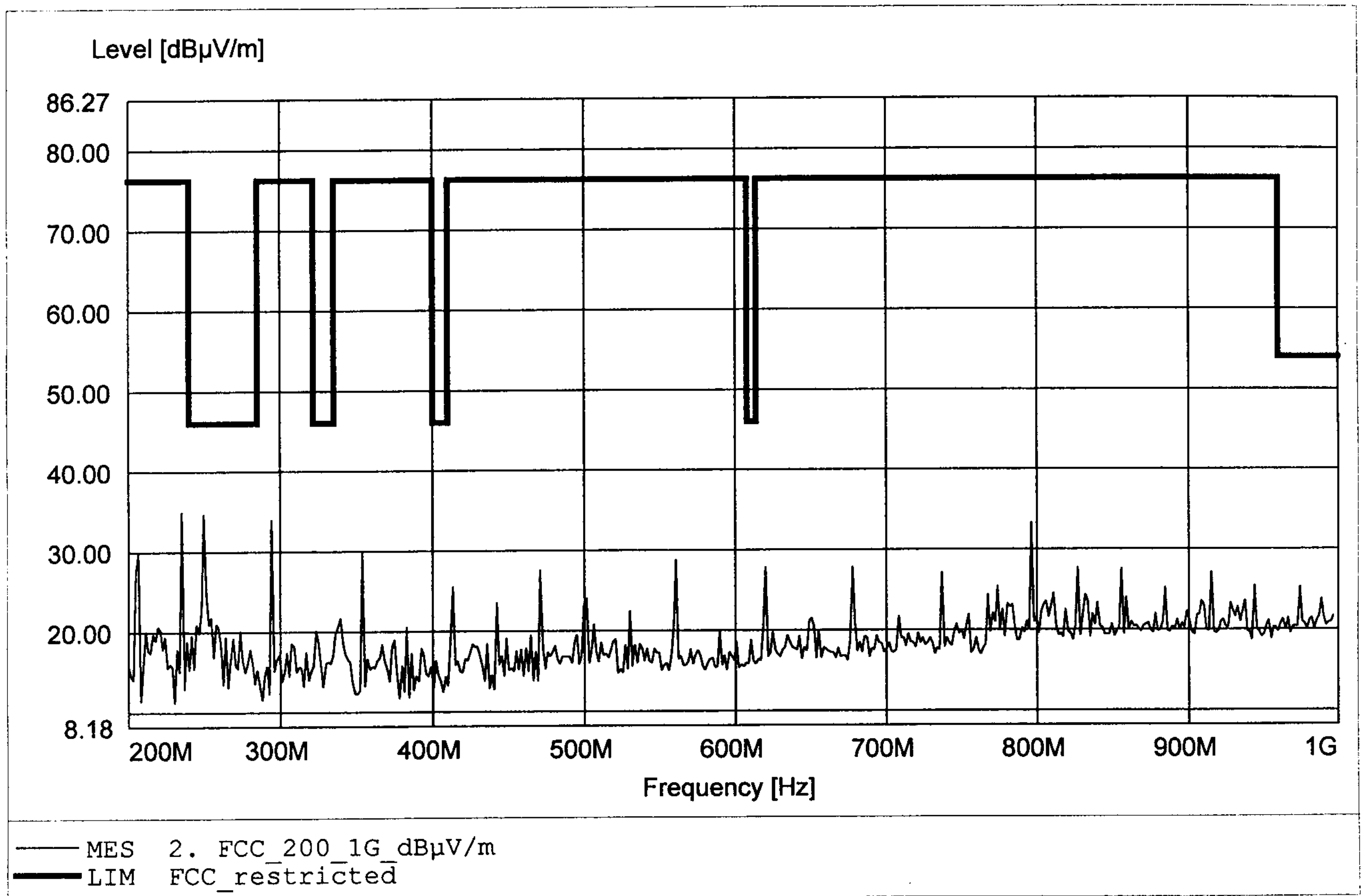
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq:737.074MHz Emax:36.34dBµV/m RBW:100KHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

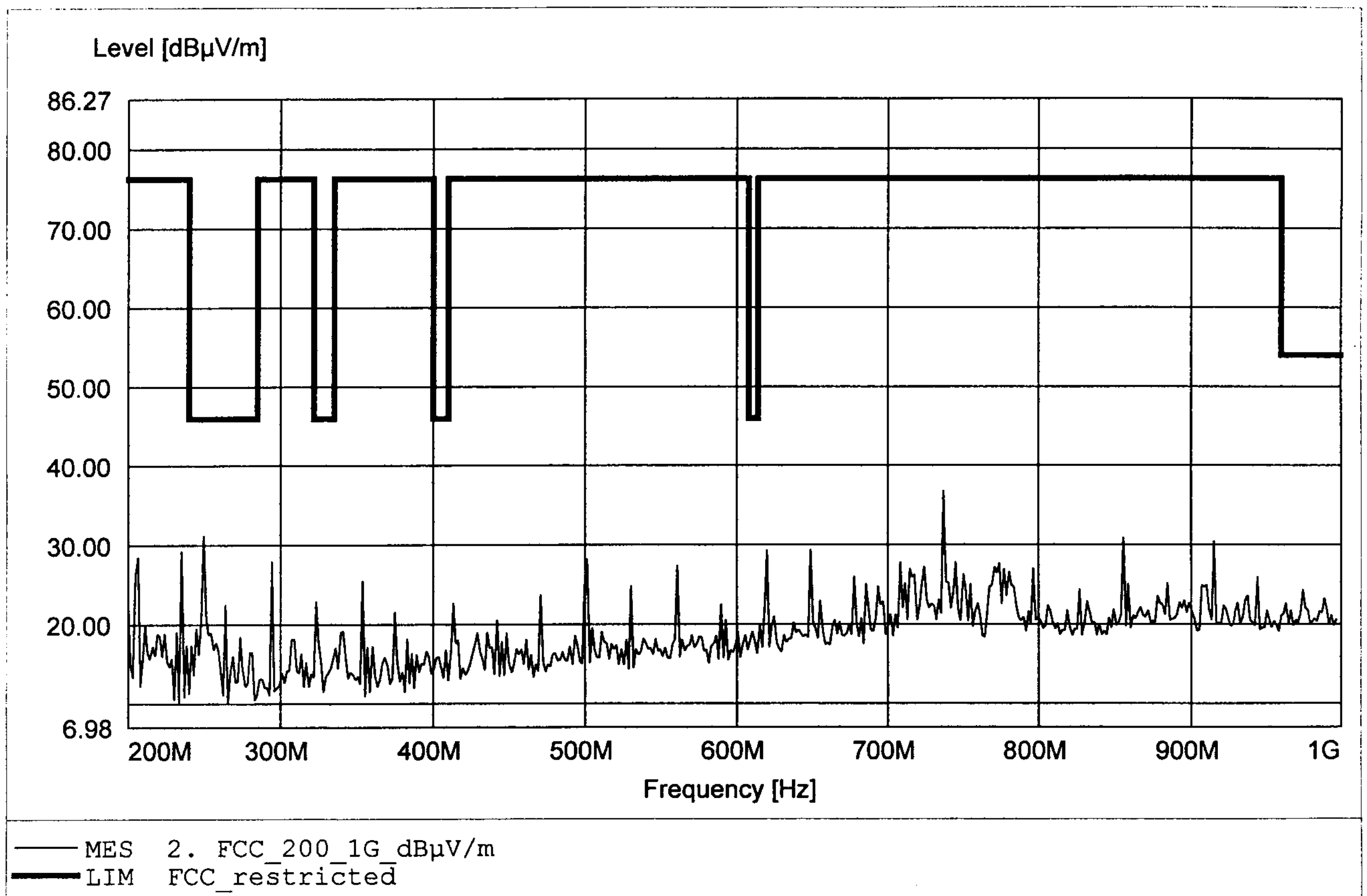
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq:235.271MHz Emax:35.01dBµV/m RBW:100KHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

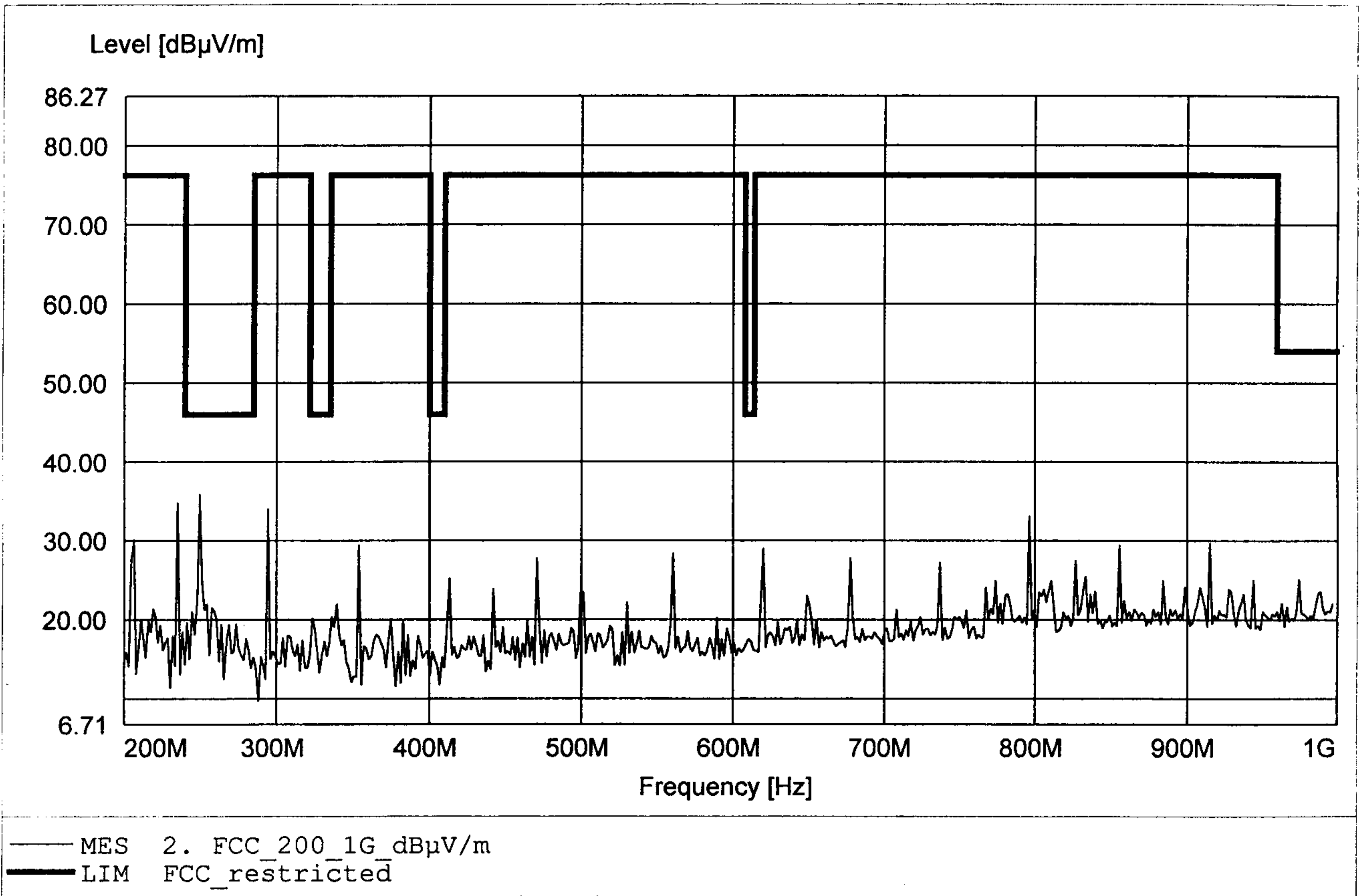
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq:737.074MHz Emax:36.79dBµV/m RBW:100KHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

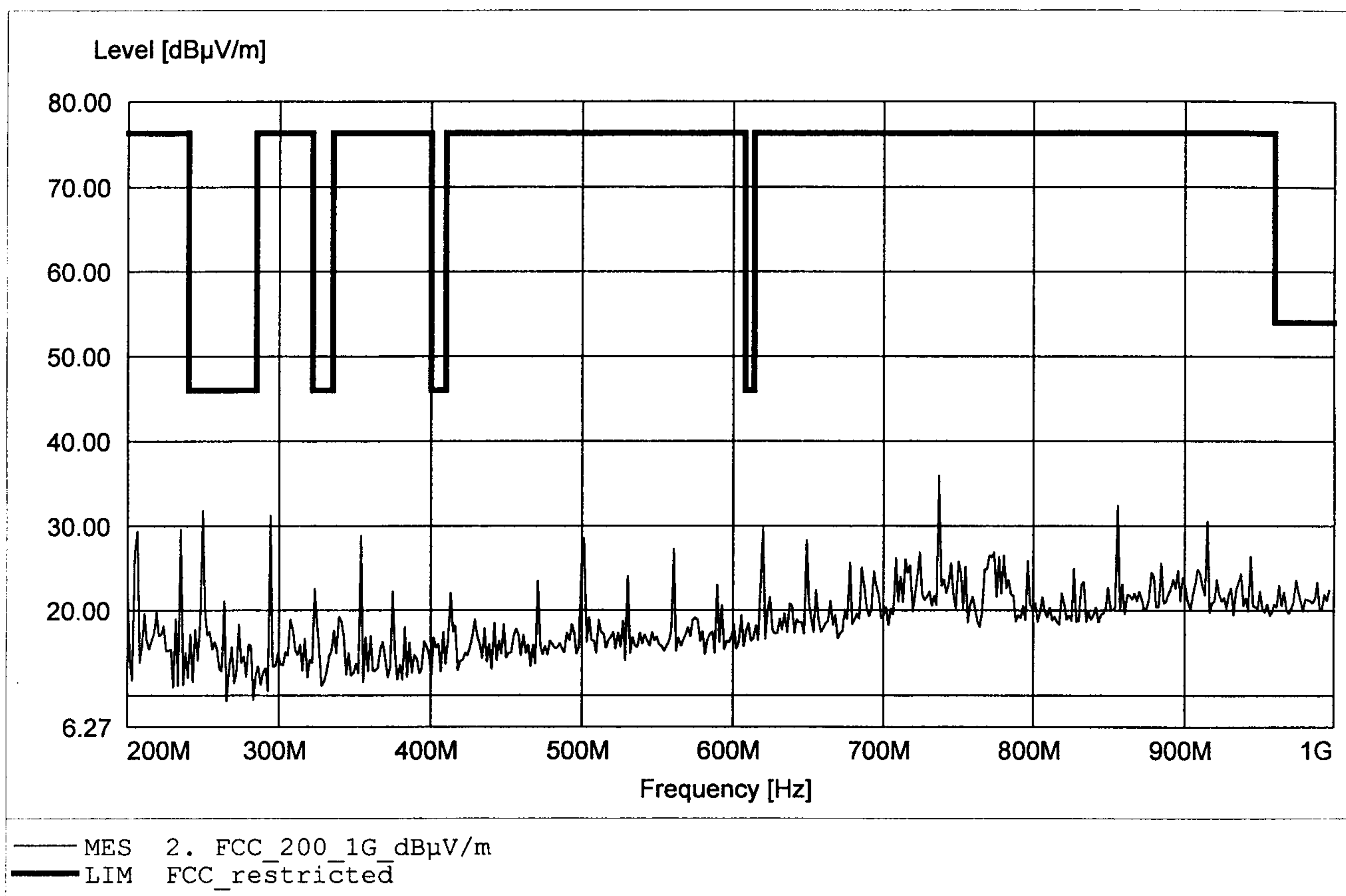
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq:249.699MHz Emax:35.94dBµV/m RBW:100KHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG

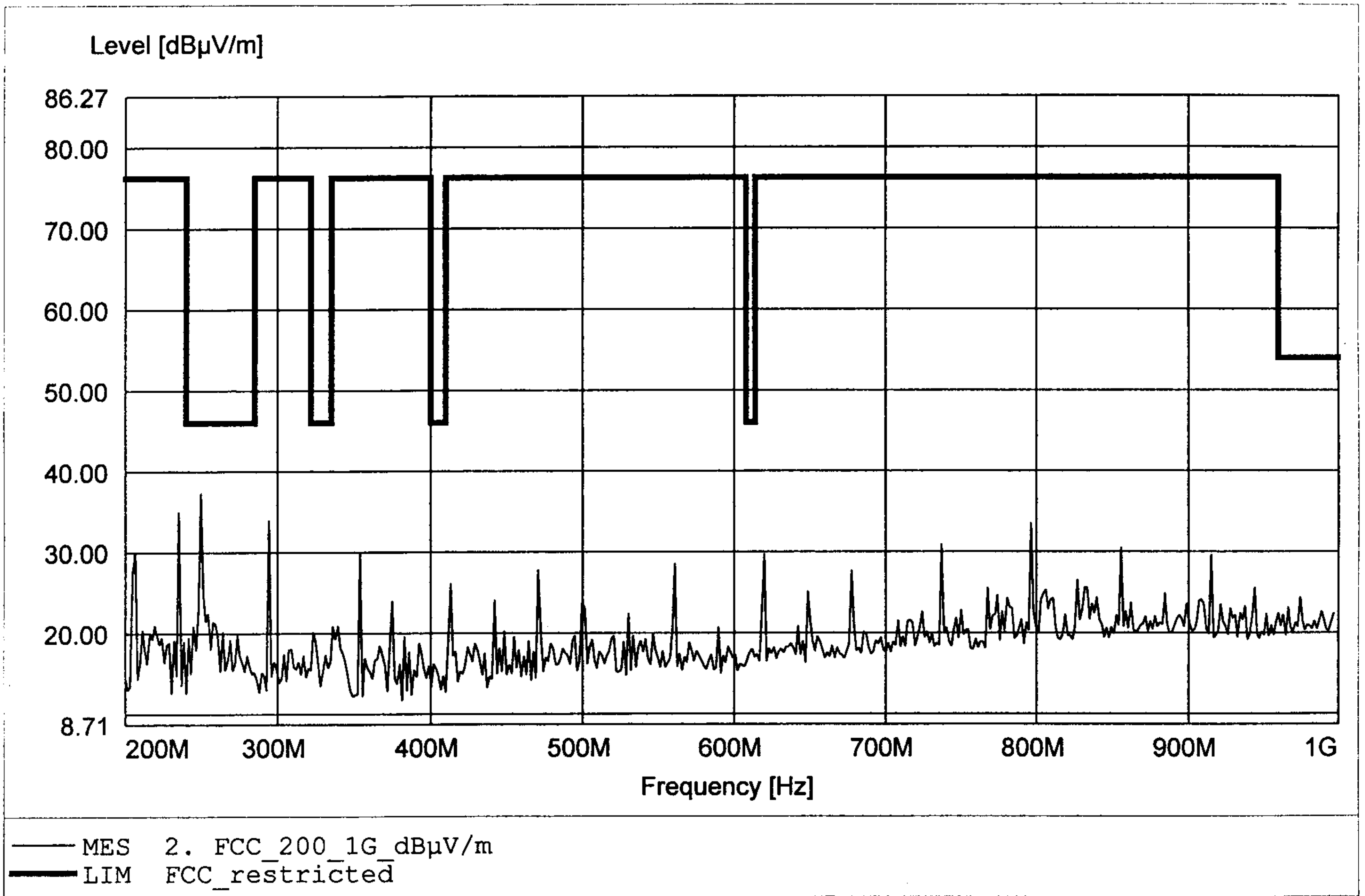
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq:737.074MHz Emax:35.95dBµV/m RBW:100KHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG

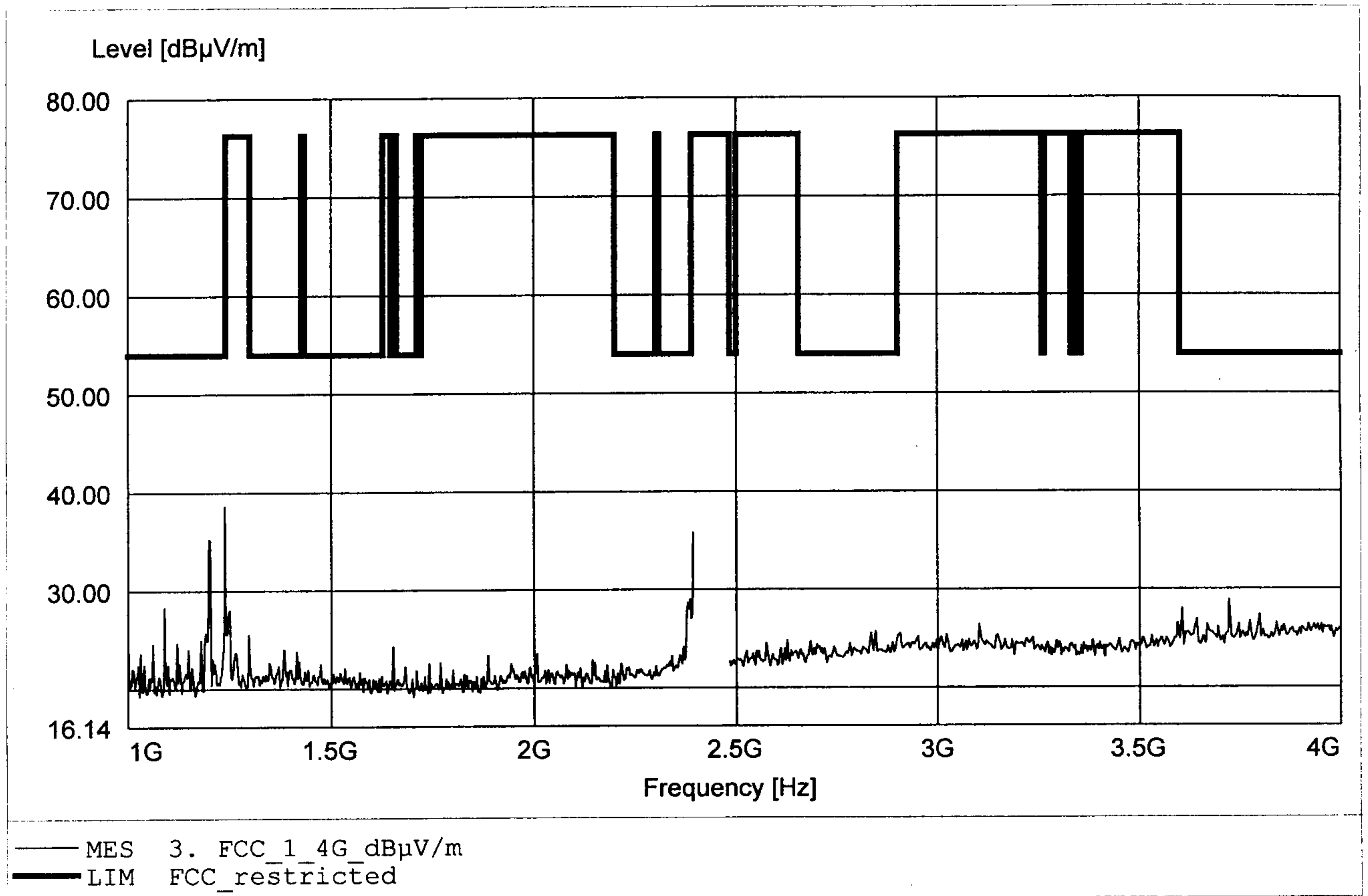
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq:249.699MHz Emax:37.36dBµV/m RBW:100KHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

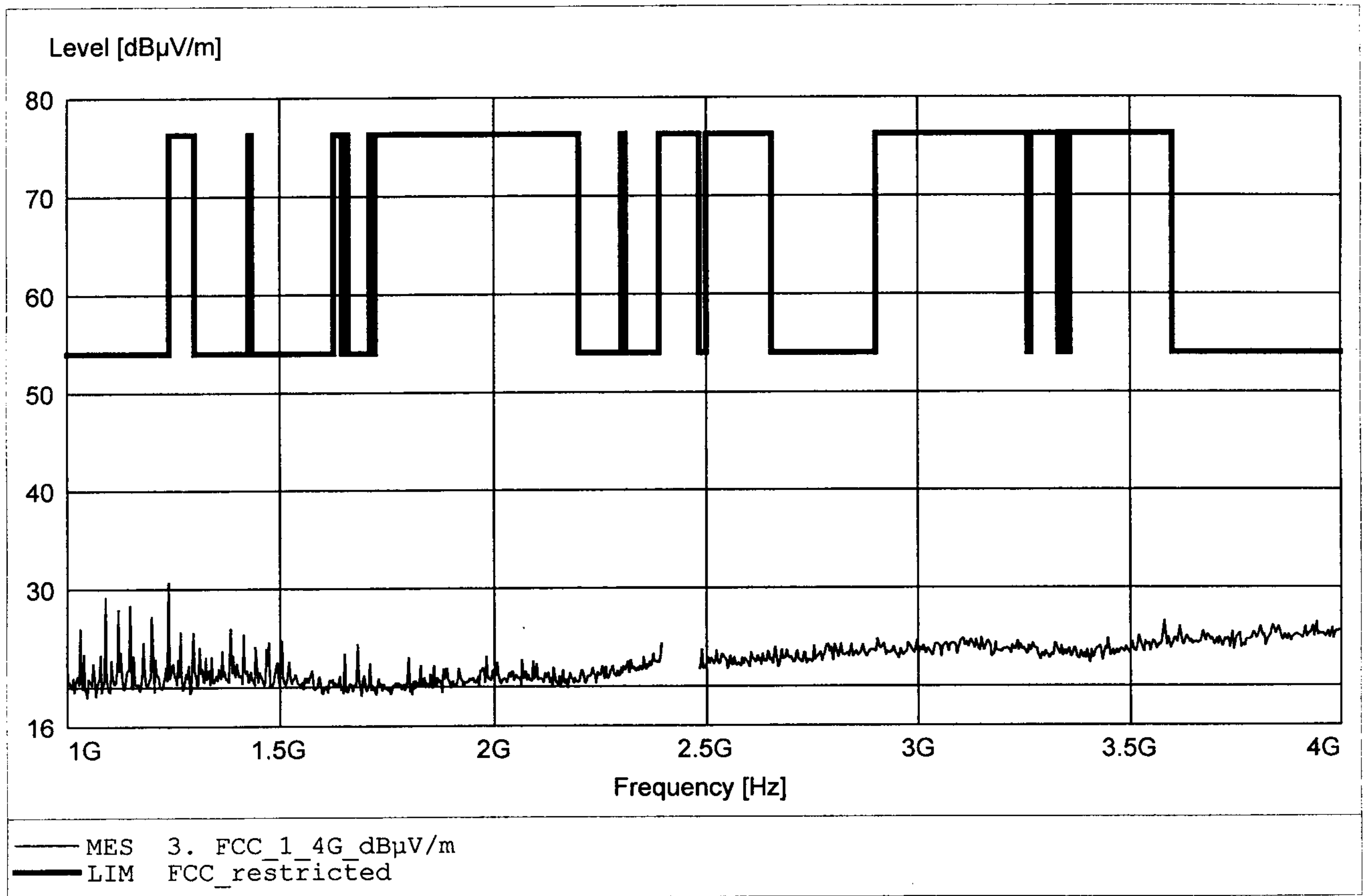
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:1.238GHz Emax:38.62dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

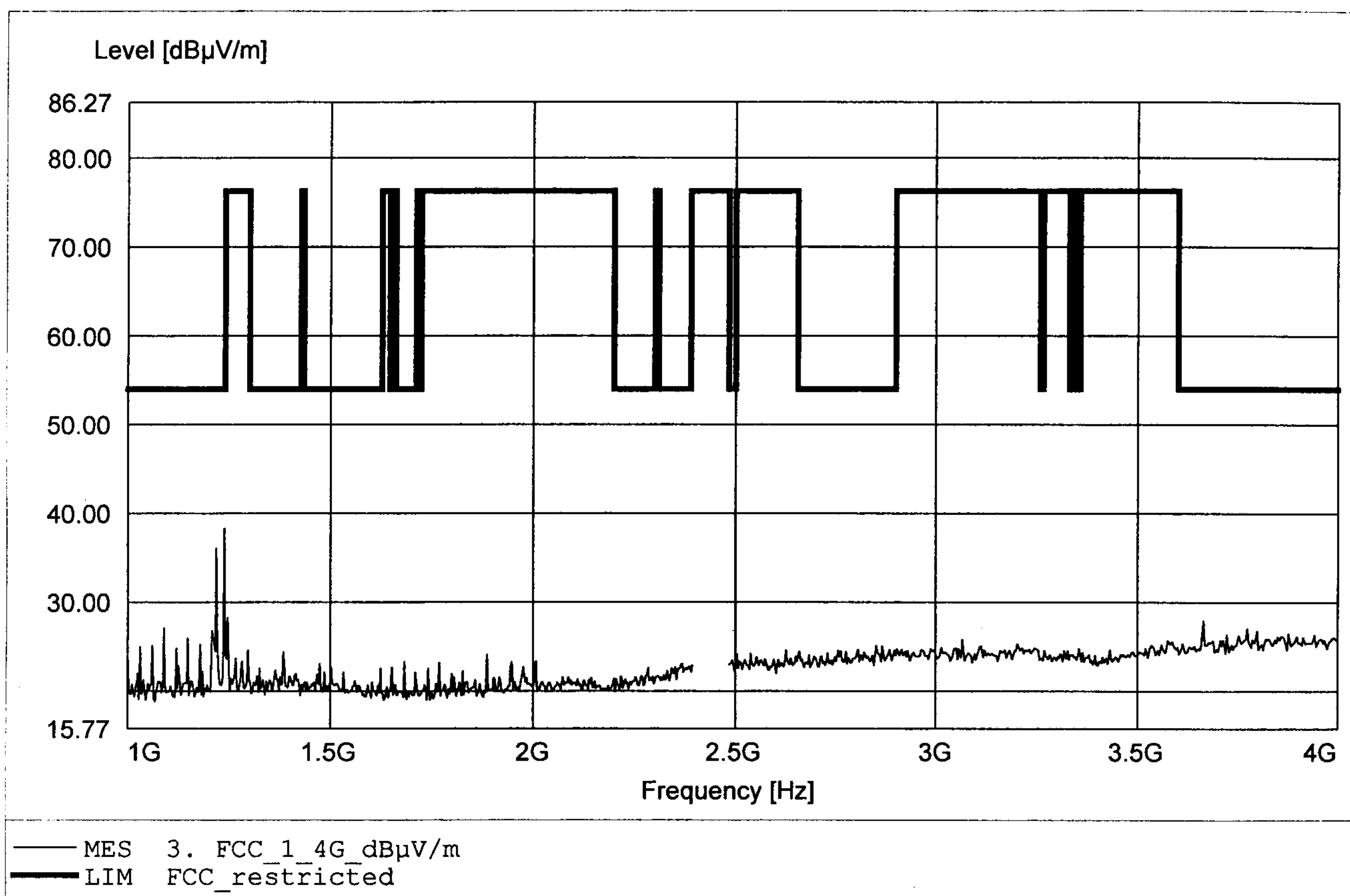
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:1.238GHz Emax:30.68dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

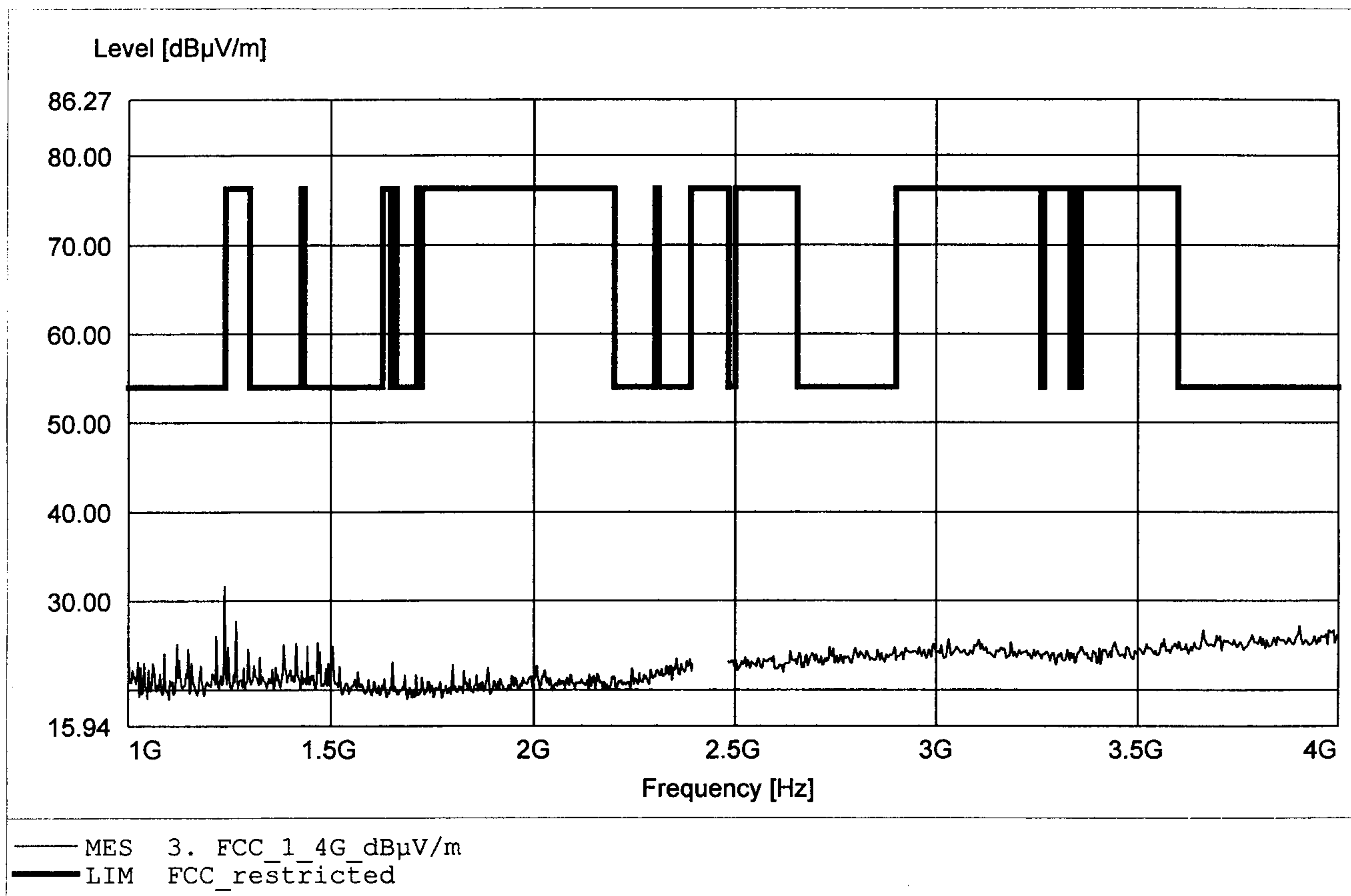
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:1.238GHz Emax:38.31dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

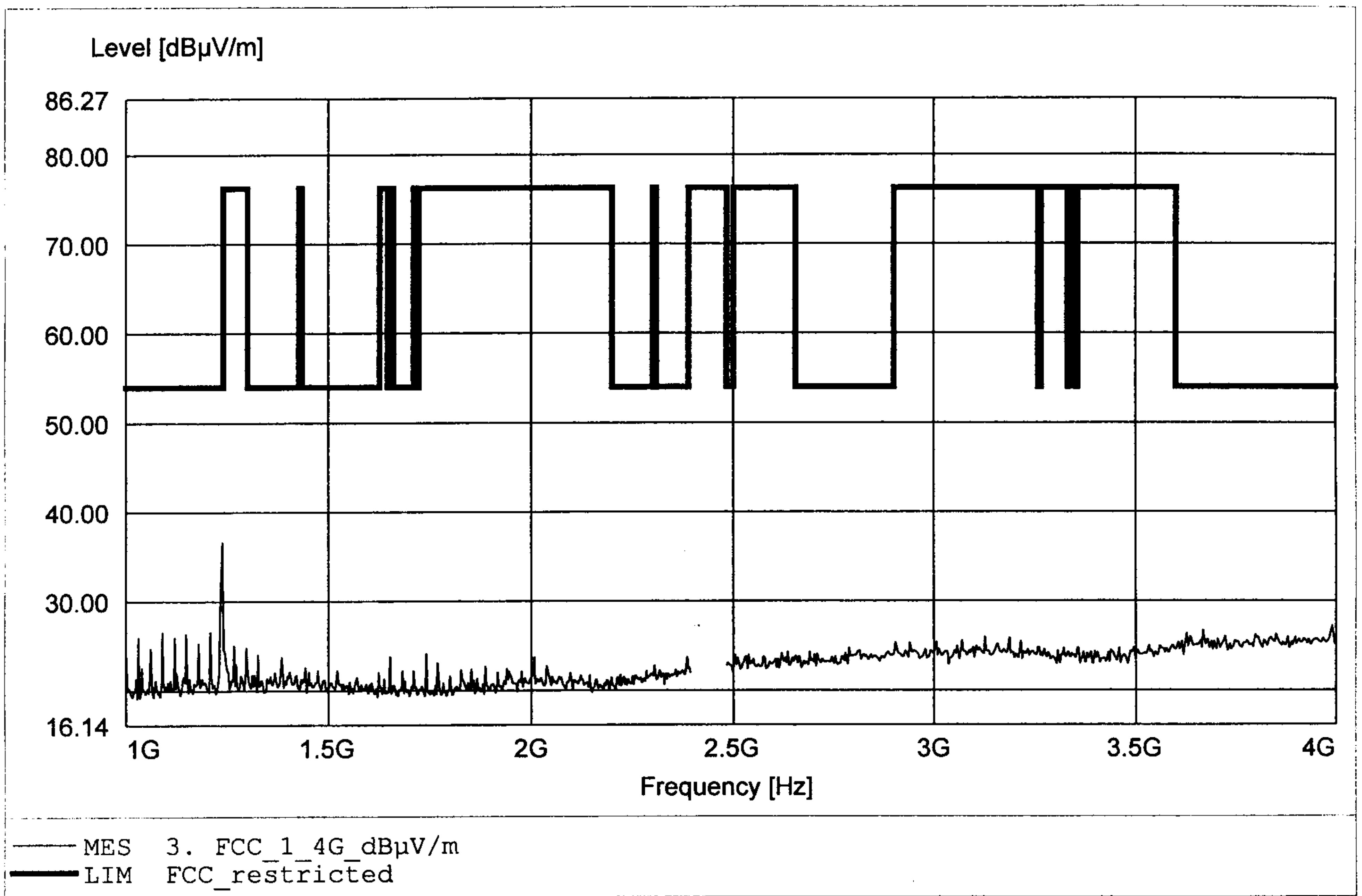
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:1.238GHz Emax:31.66dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG

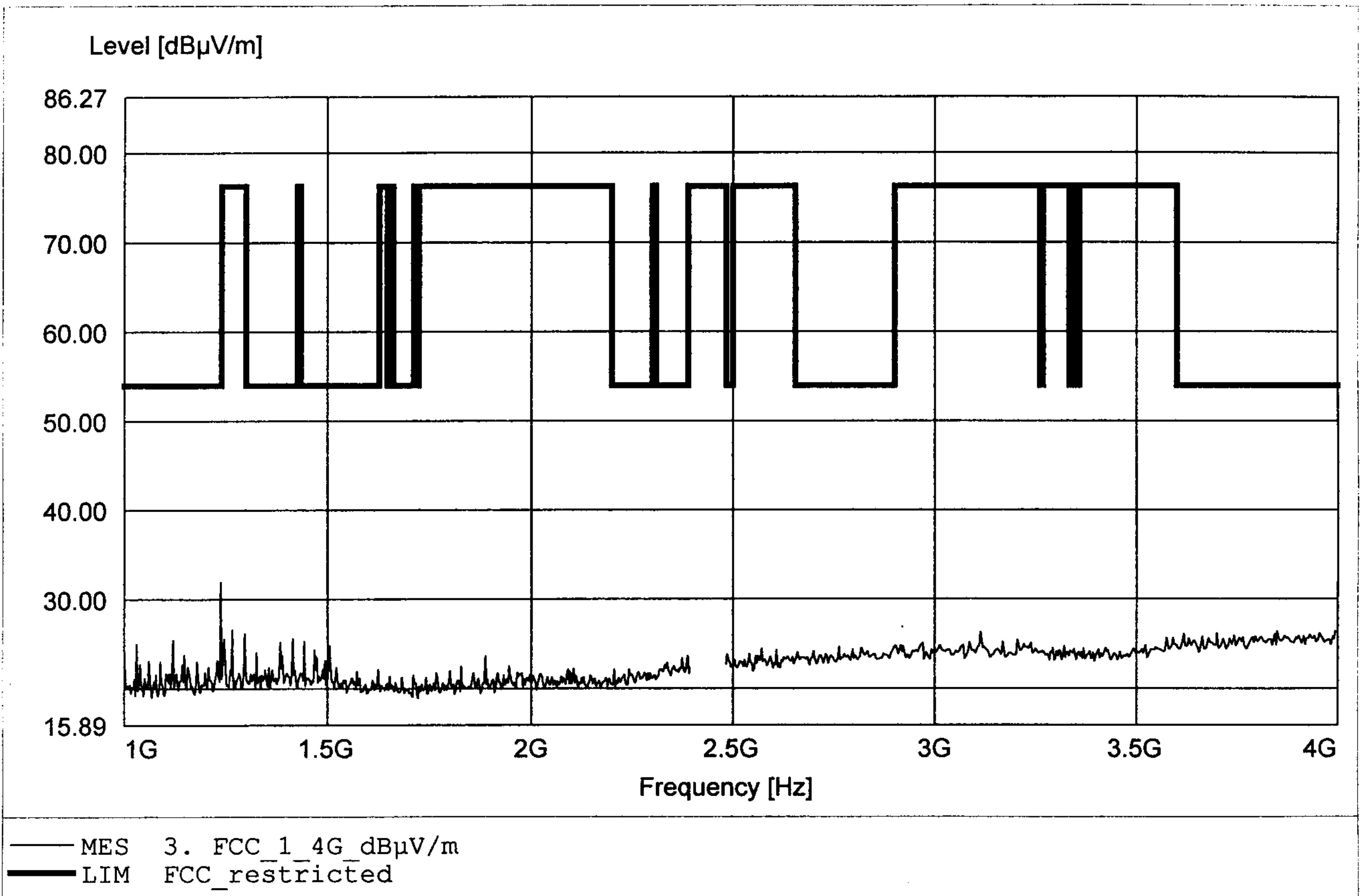
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:1.238GHz Emax:36.61dBµV/m RBW:1MHz



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

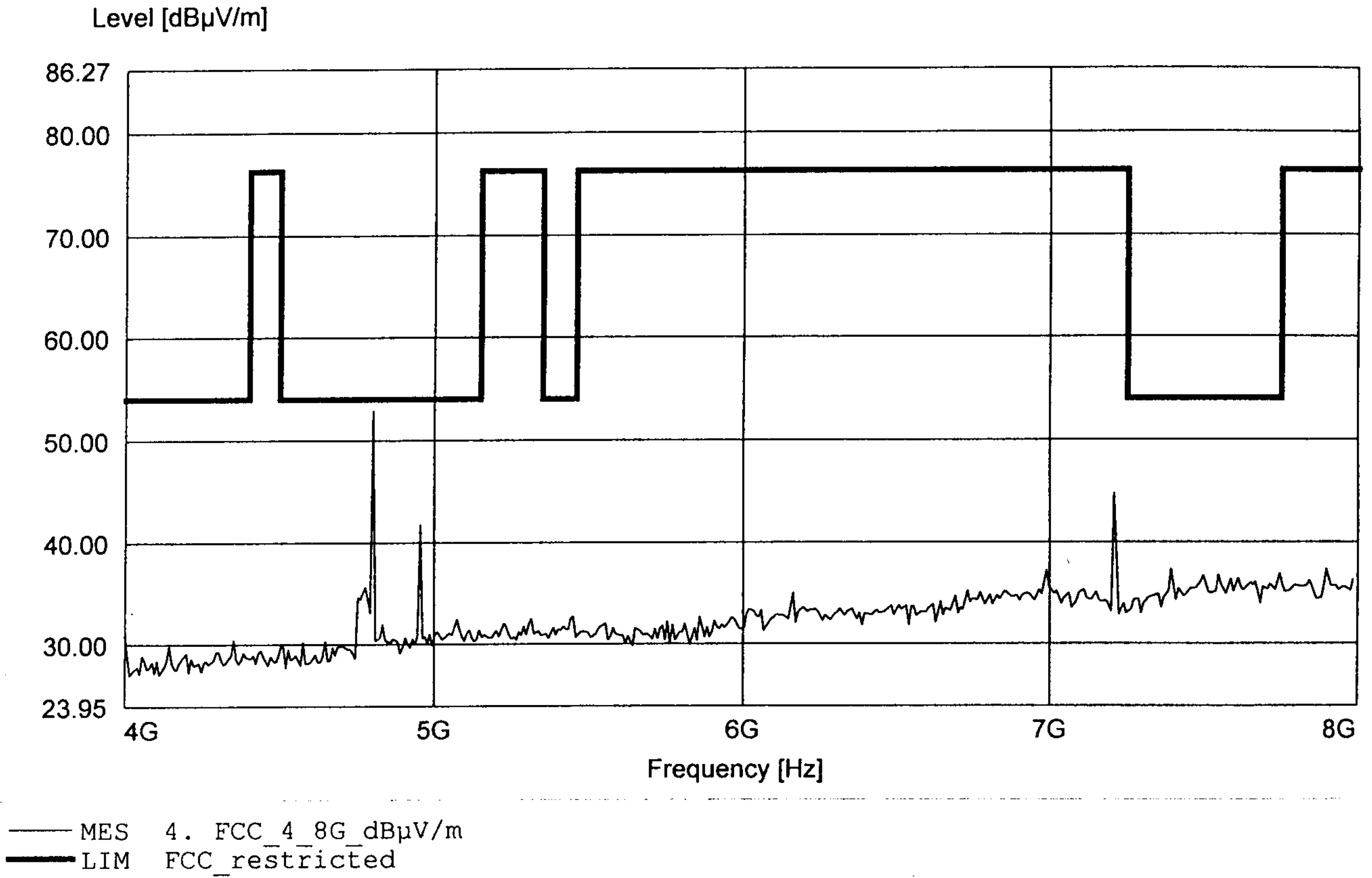
EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG

Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:1.238GHz Emax:31.96dBµV/m RBW:1MHz



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

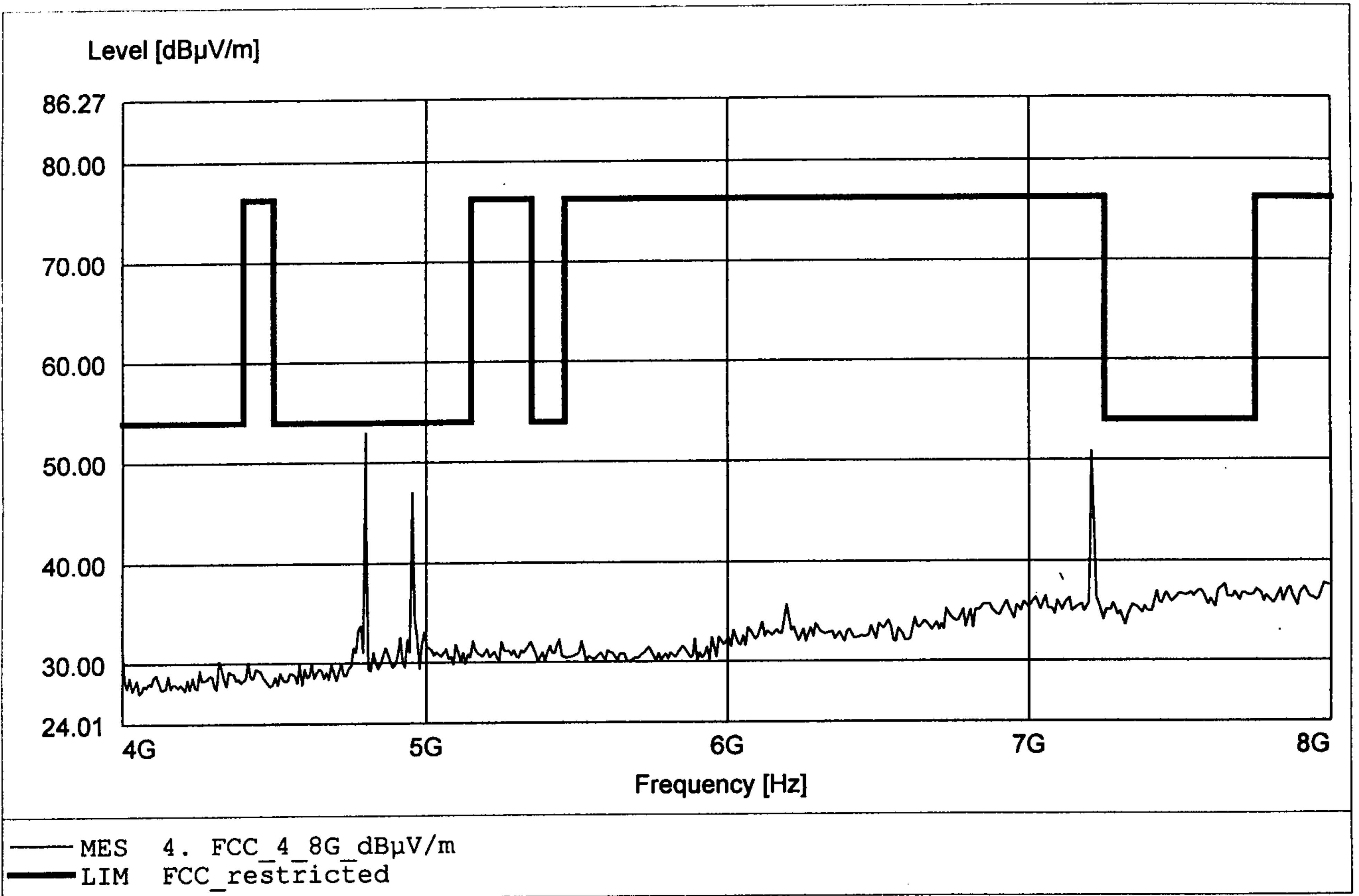
EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:4.804GHz Emax:53.35dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

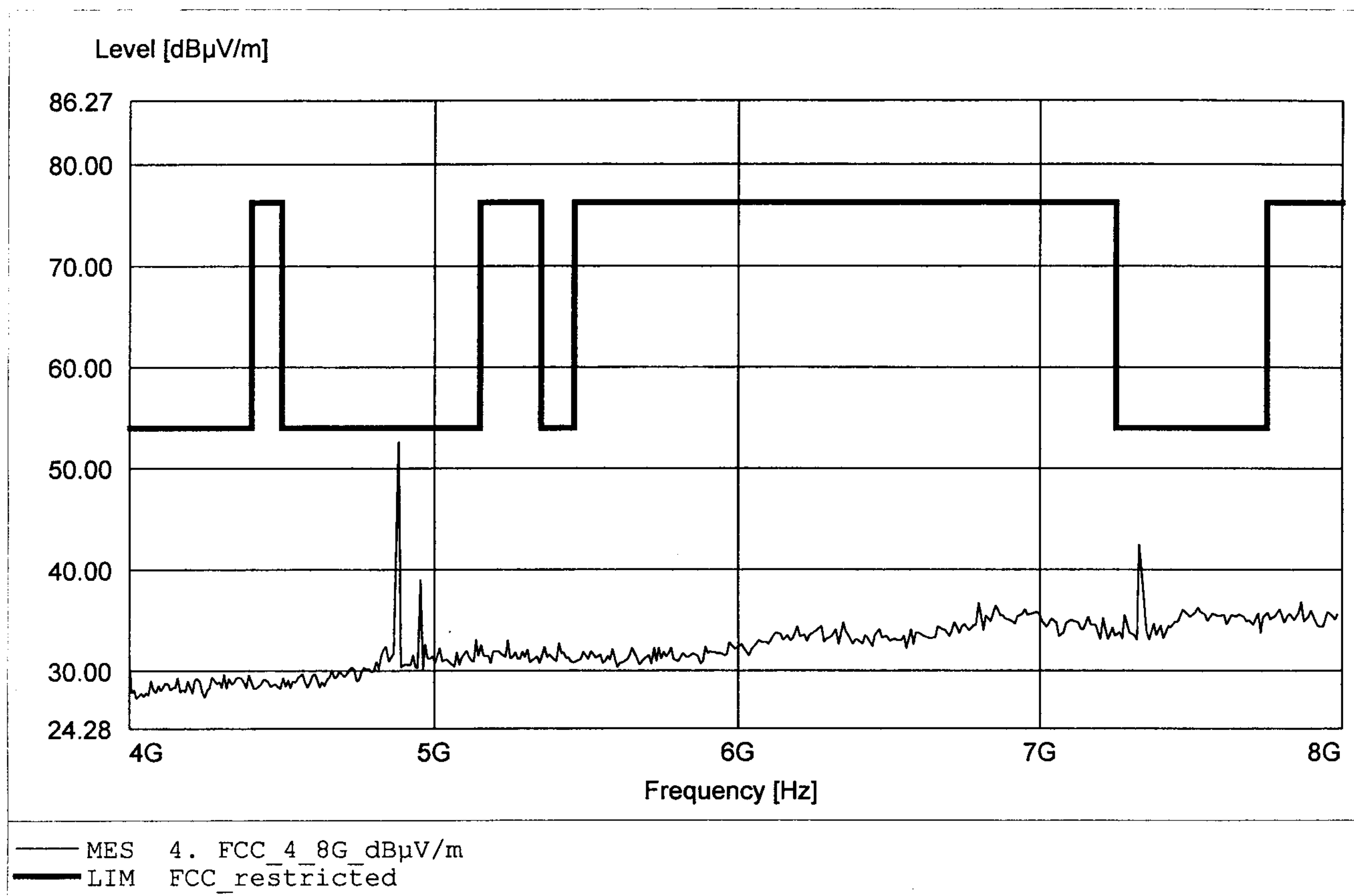
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:4.804GHz Emax:53.37dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

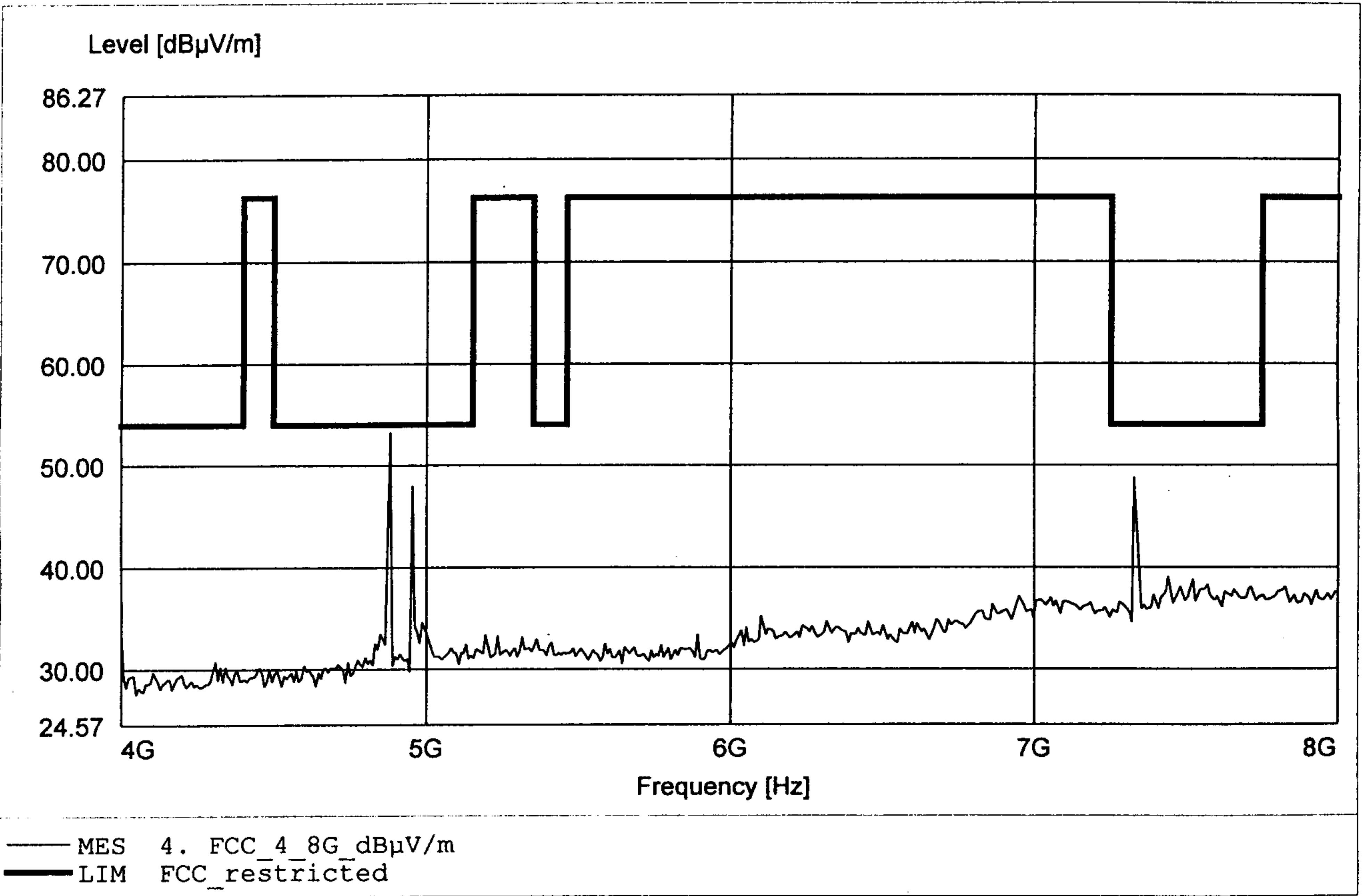
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:4.882GHz Emax:52.65dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441.MHz)
Applicant: Lesswire AG

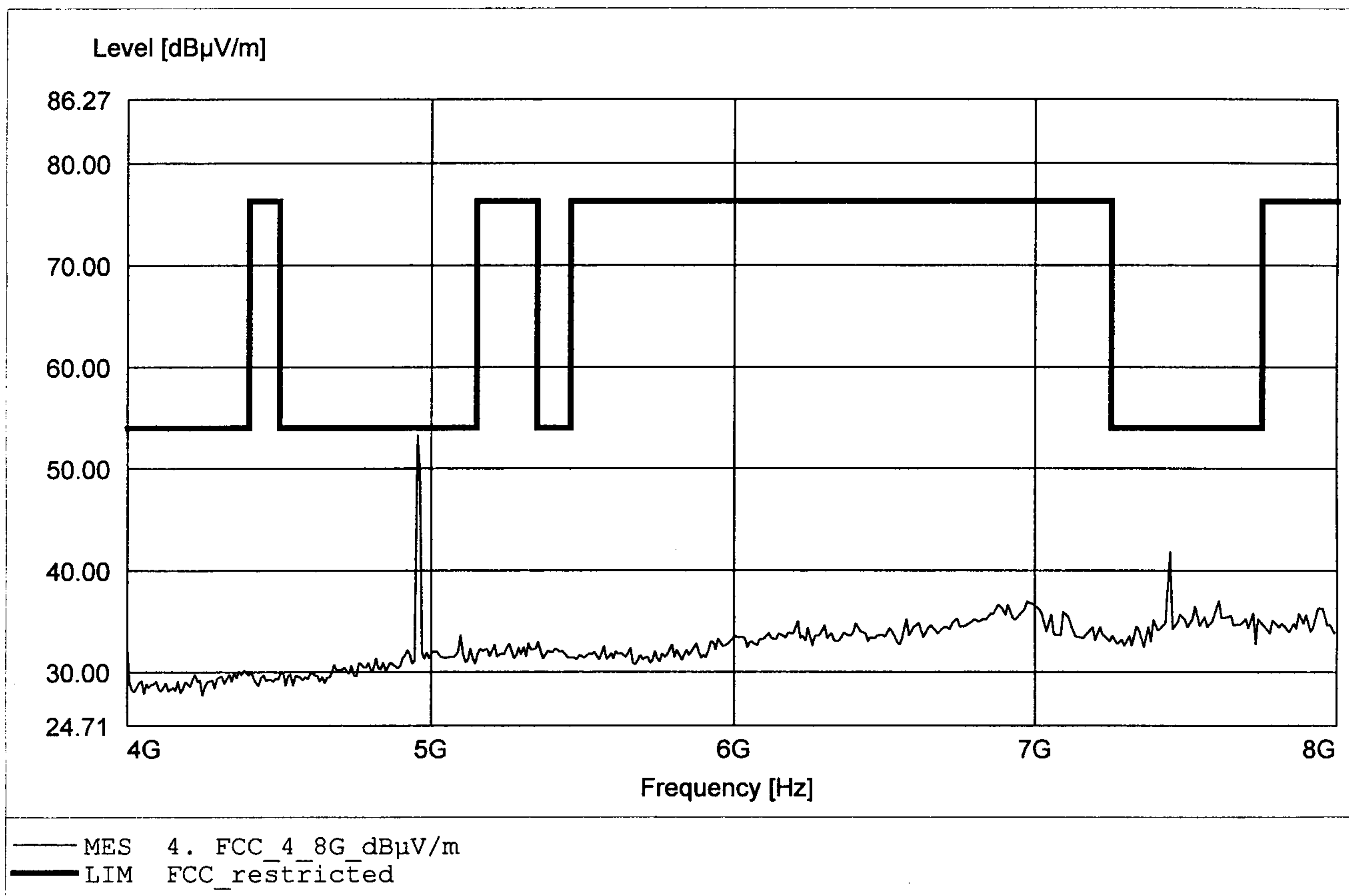
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:4.882GHz Emax:53.45dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG

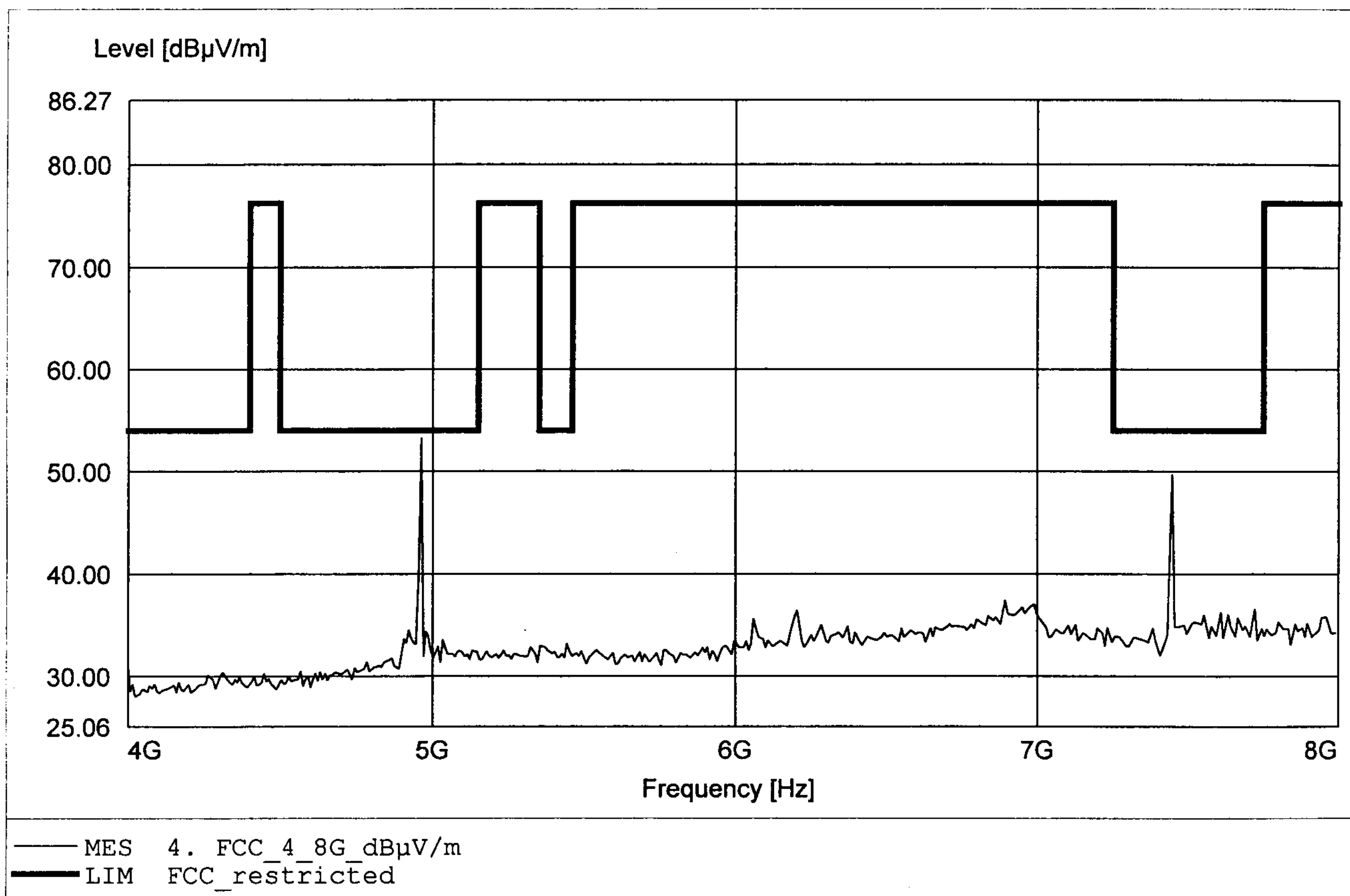
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:4.954GHz Emax:53.26dBμV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG

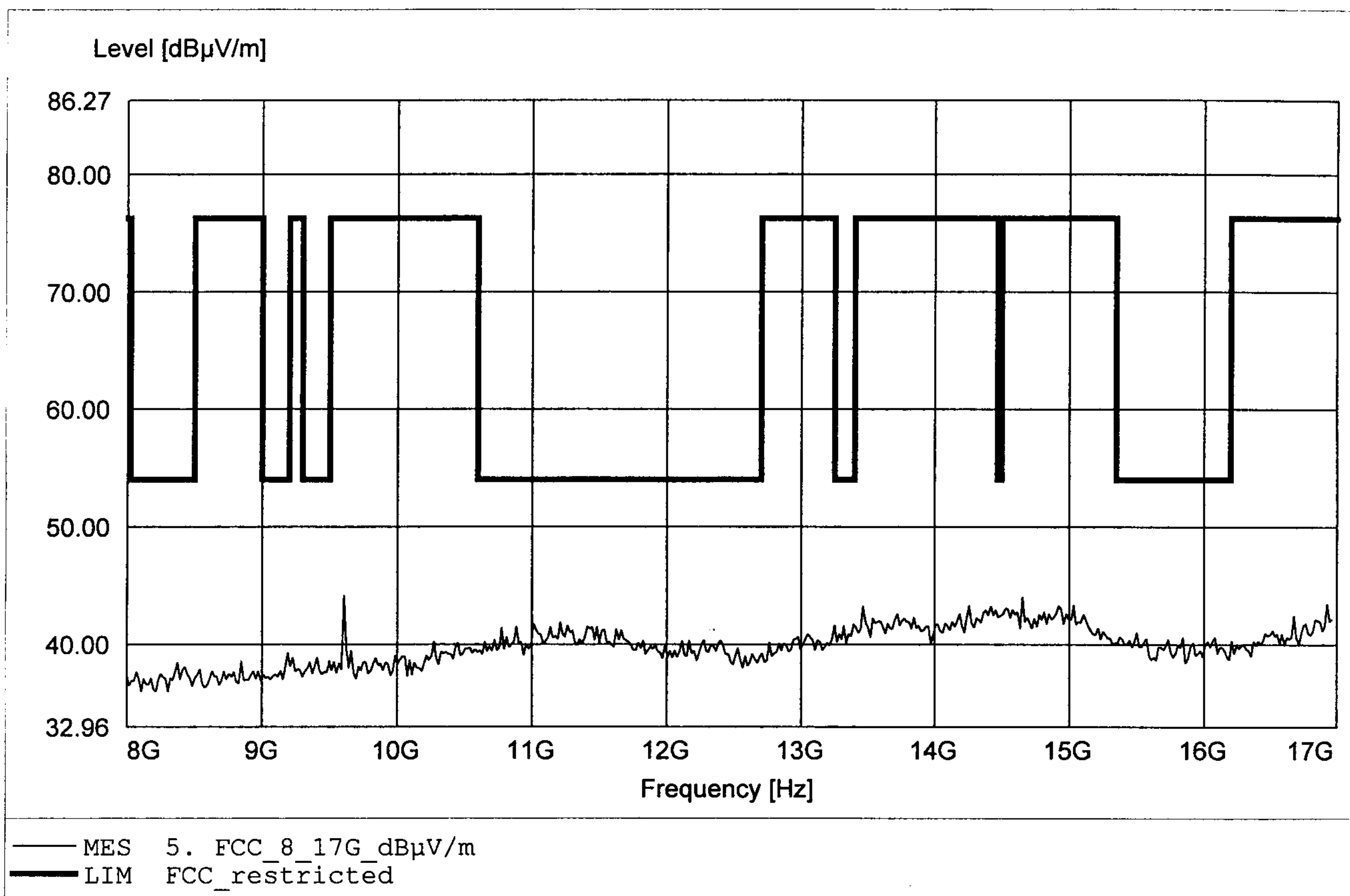
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:4.962GHz Emax:53.23dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

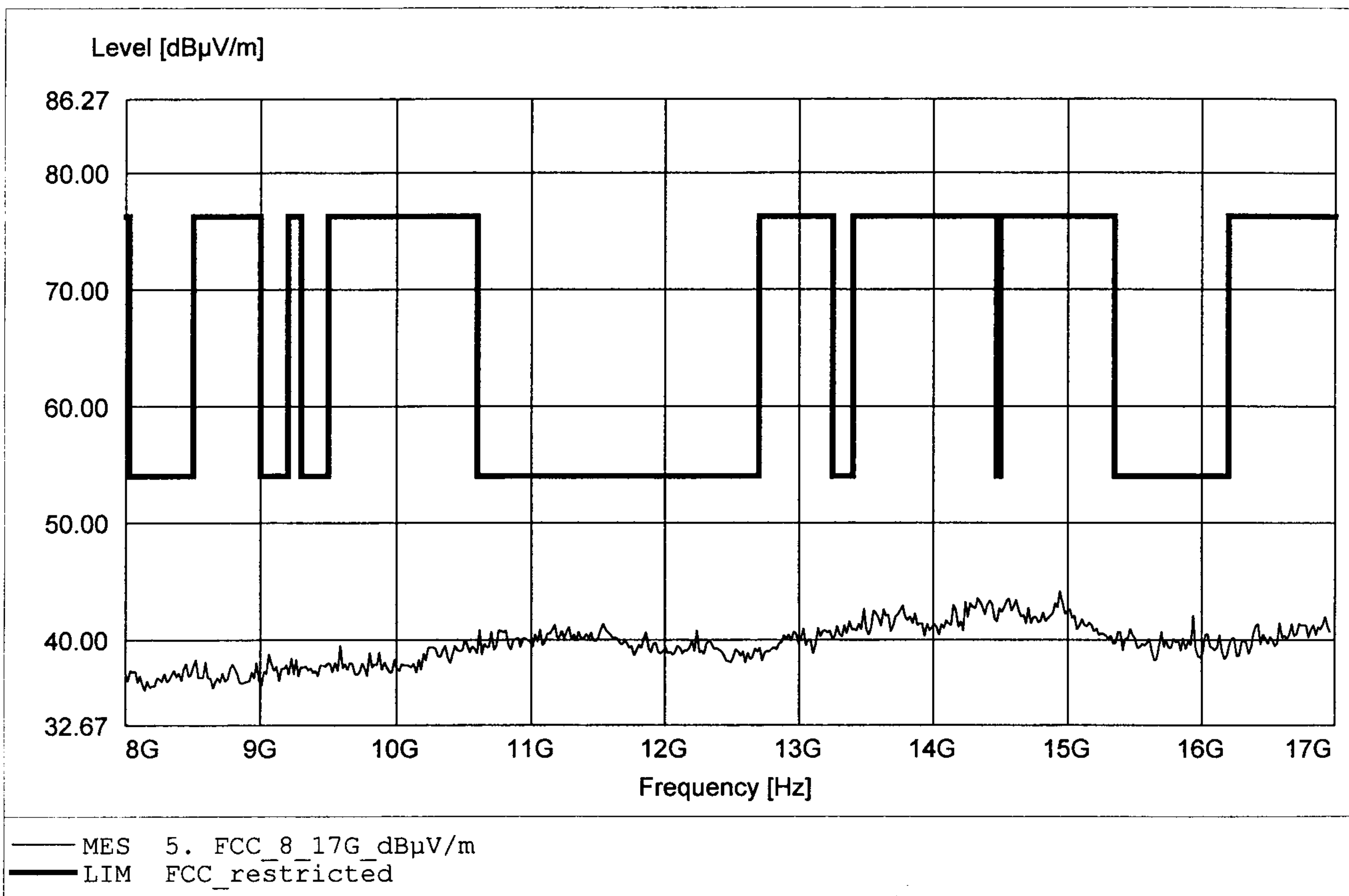
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:9.605GHz Emax:44.12dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

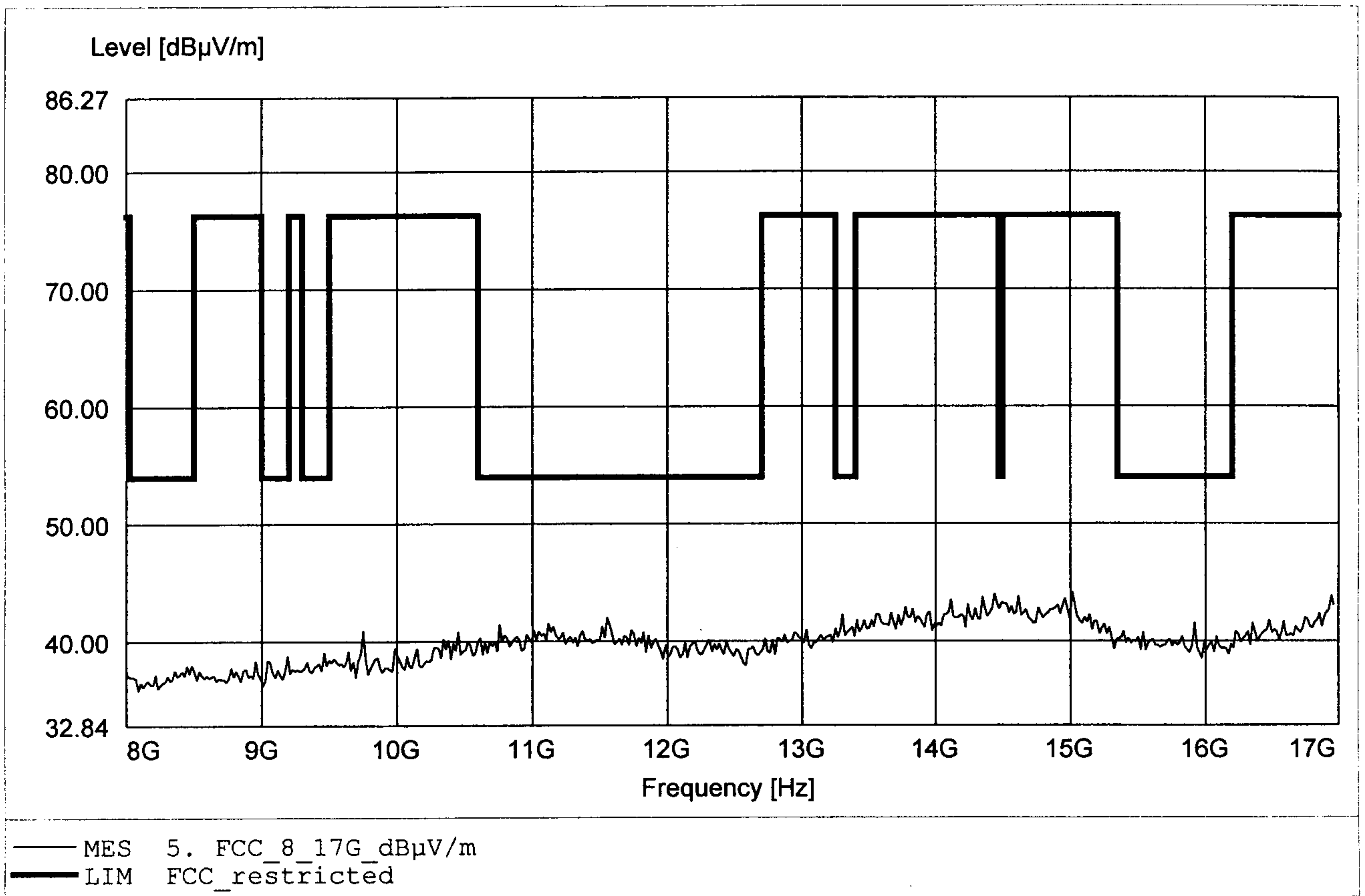
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:14.944GHz Emax:44.13dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

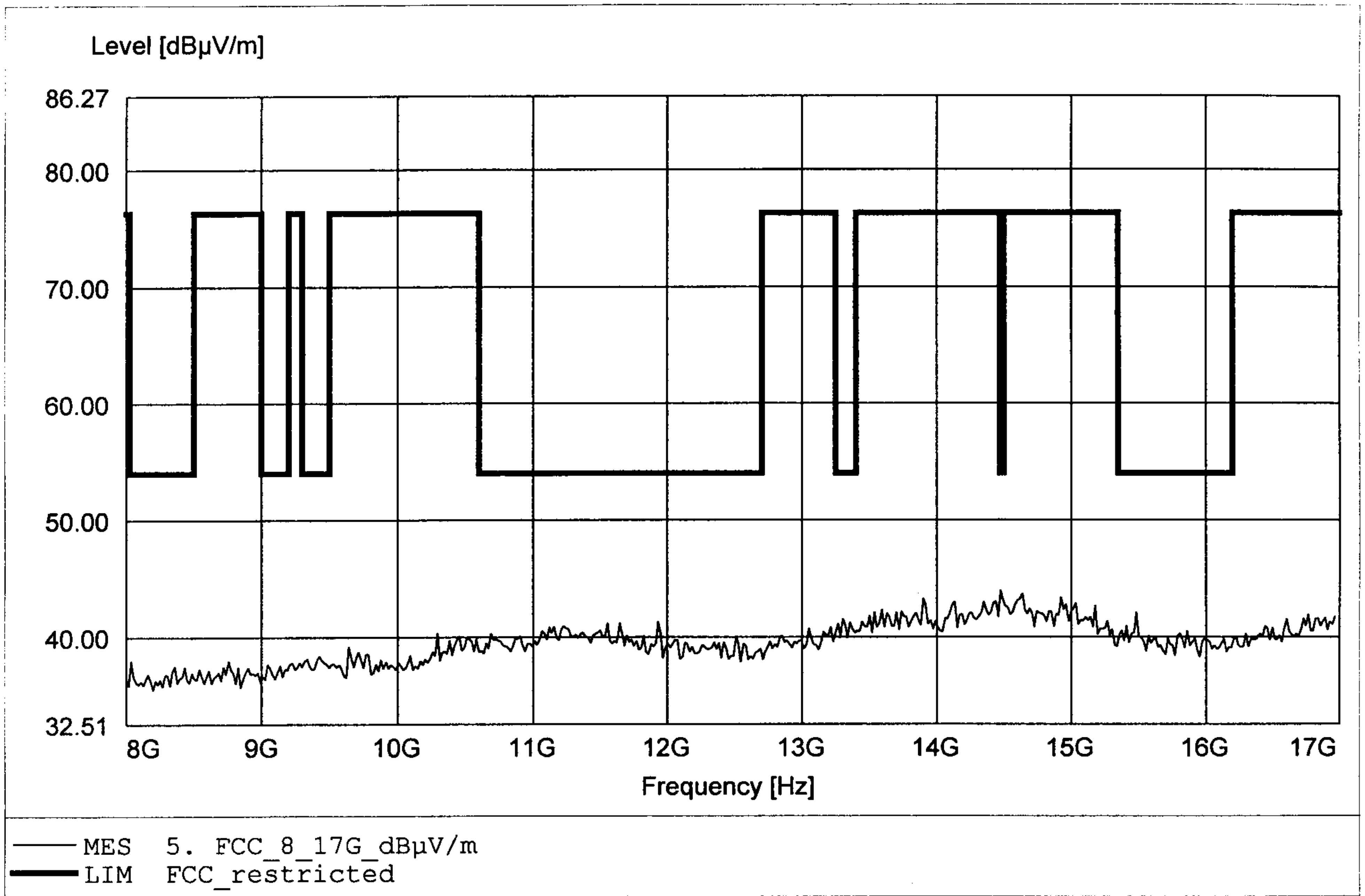
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:15.016GHz Emax:44.18dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

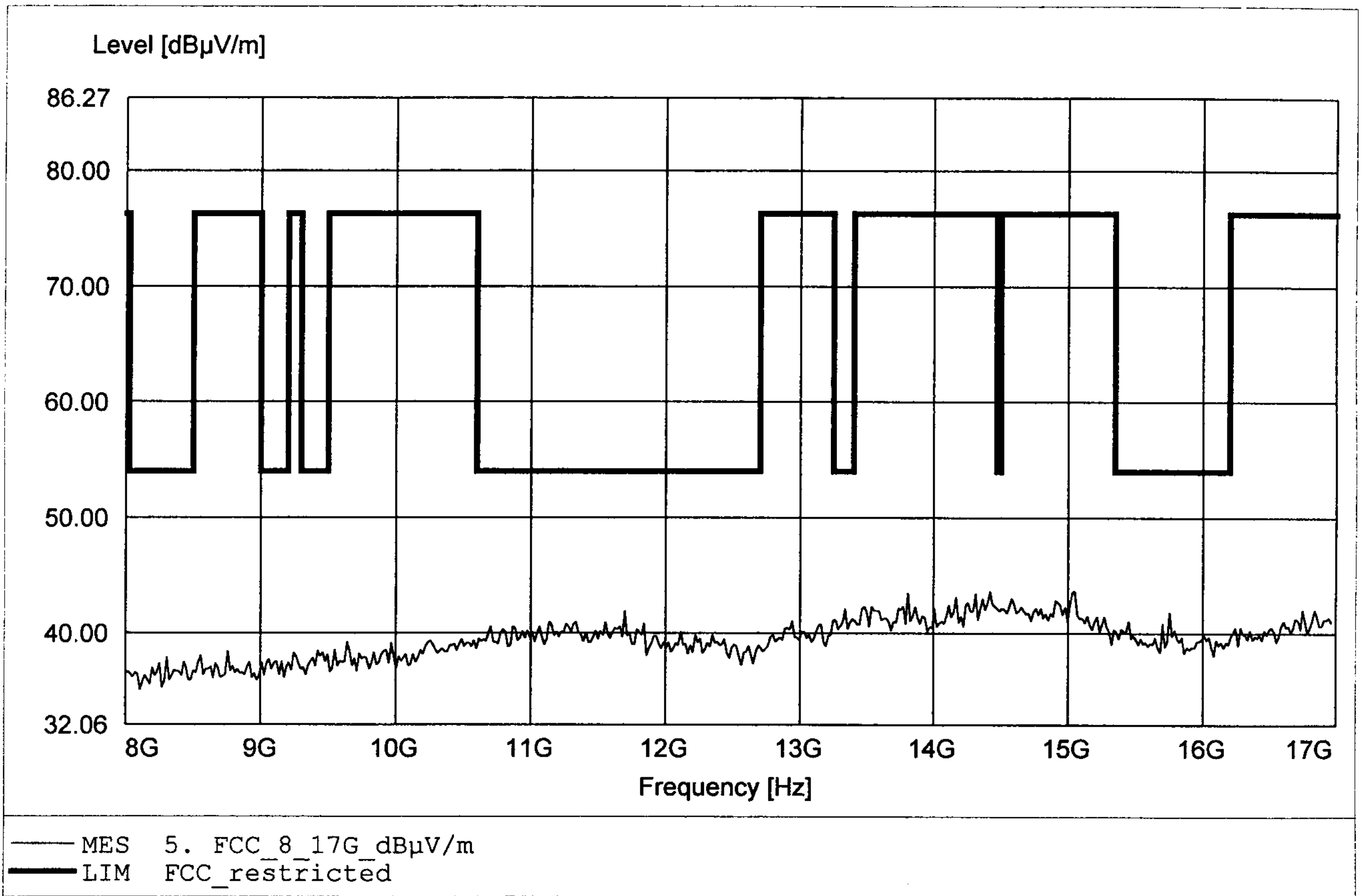
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:14.475GHz Emax:43.96dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG

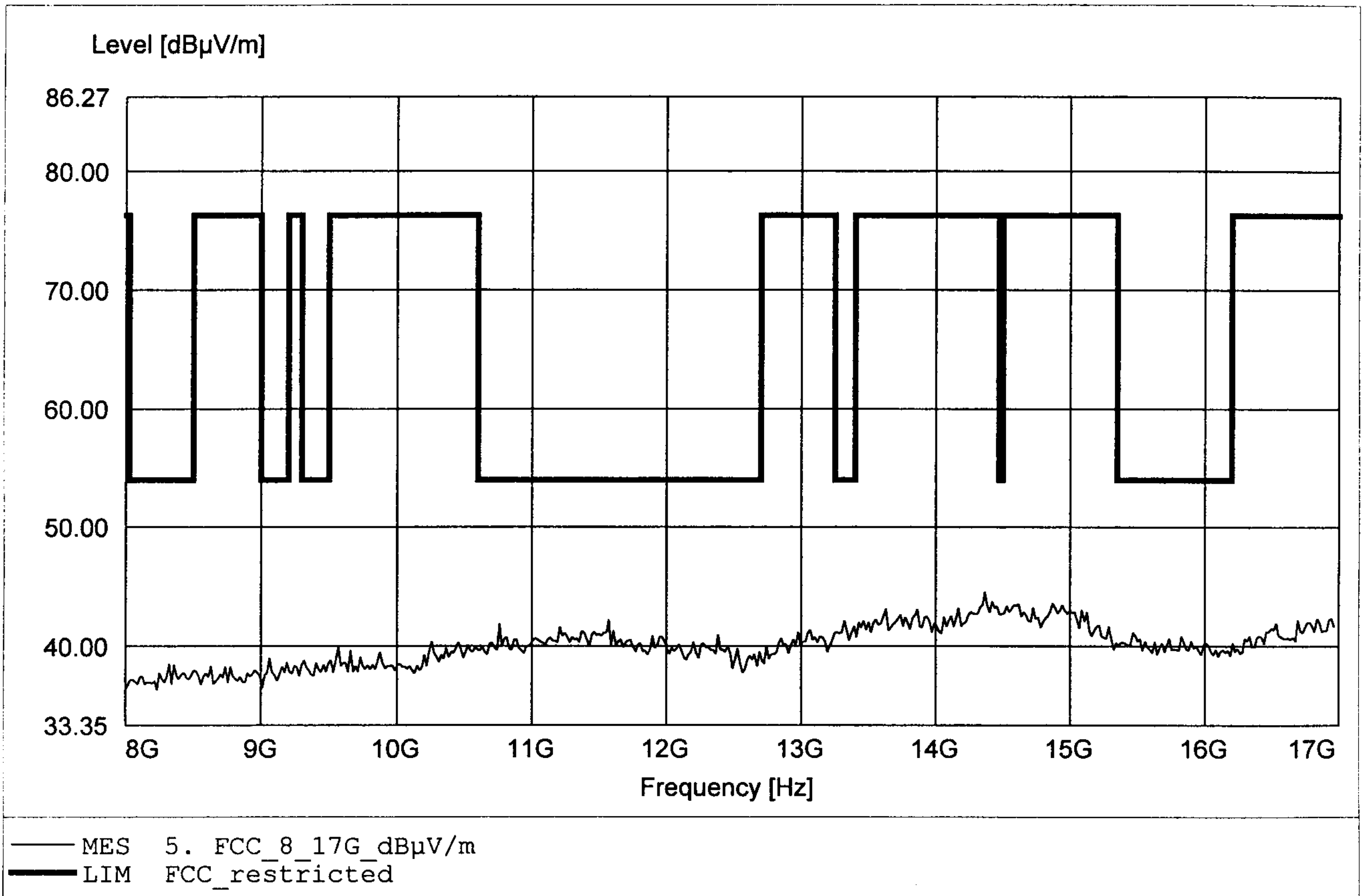
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:15.052GHz Emax:43.64dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG

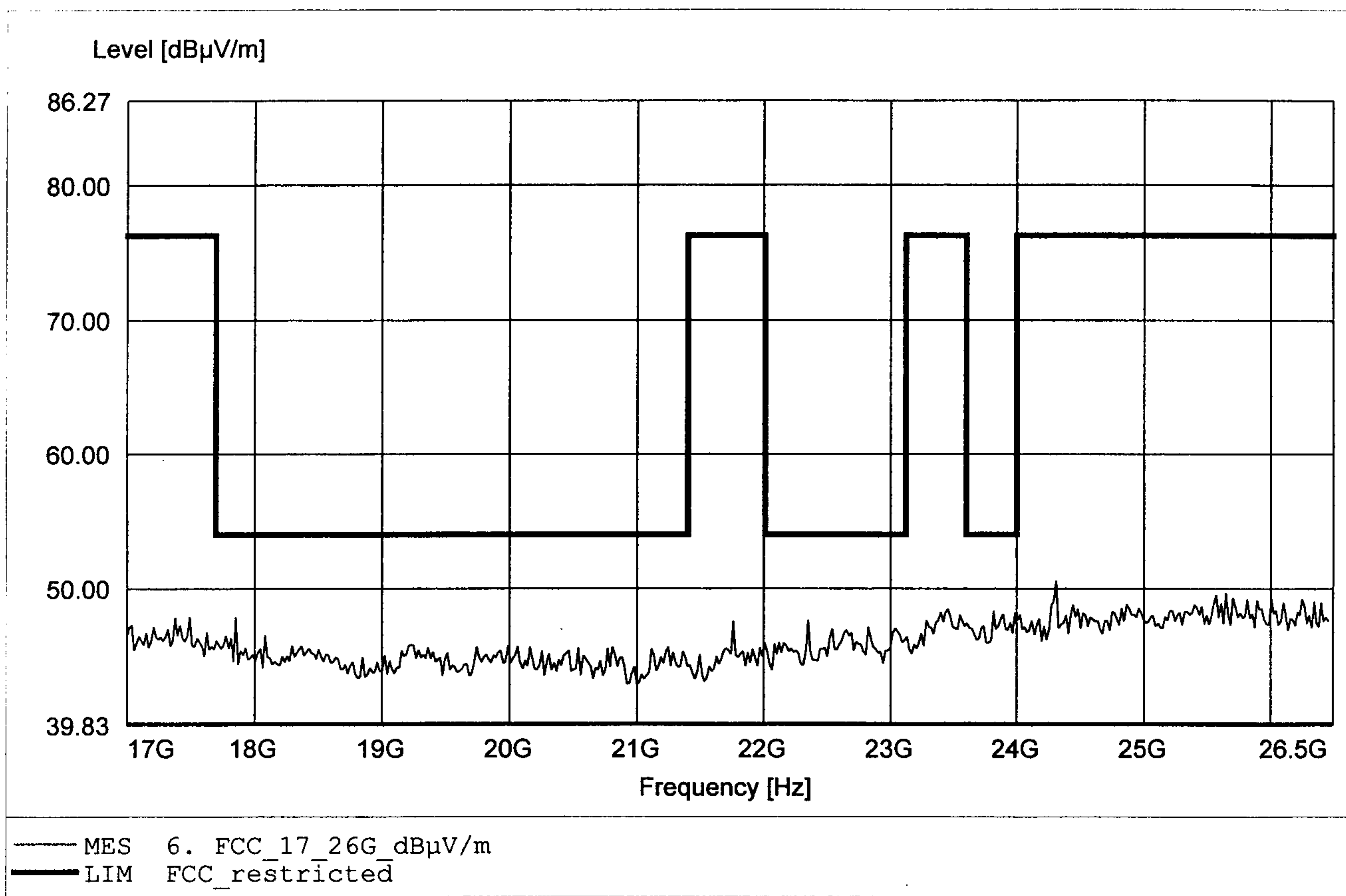
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq:14.367GHz Emax:44.53dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

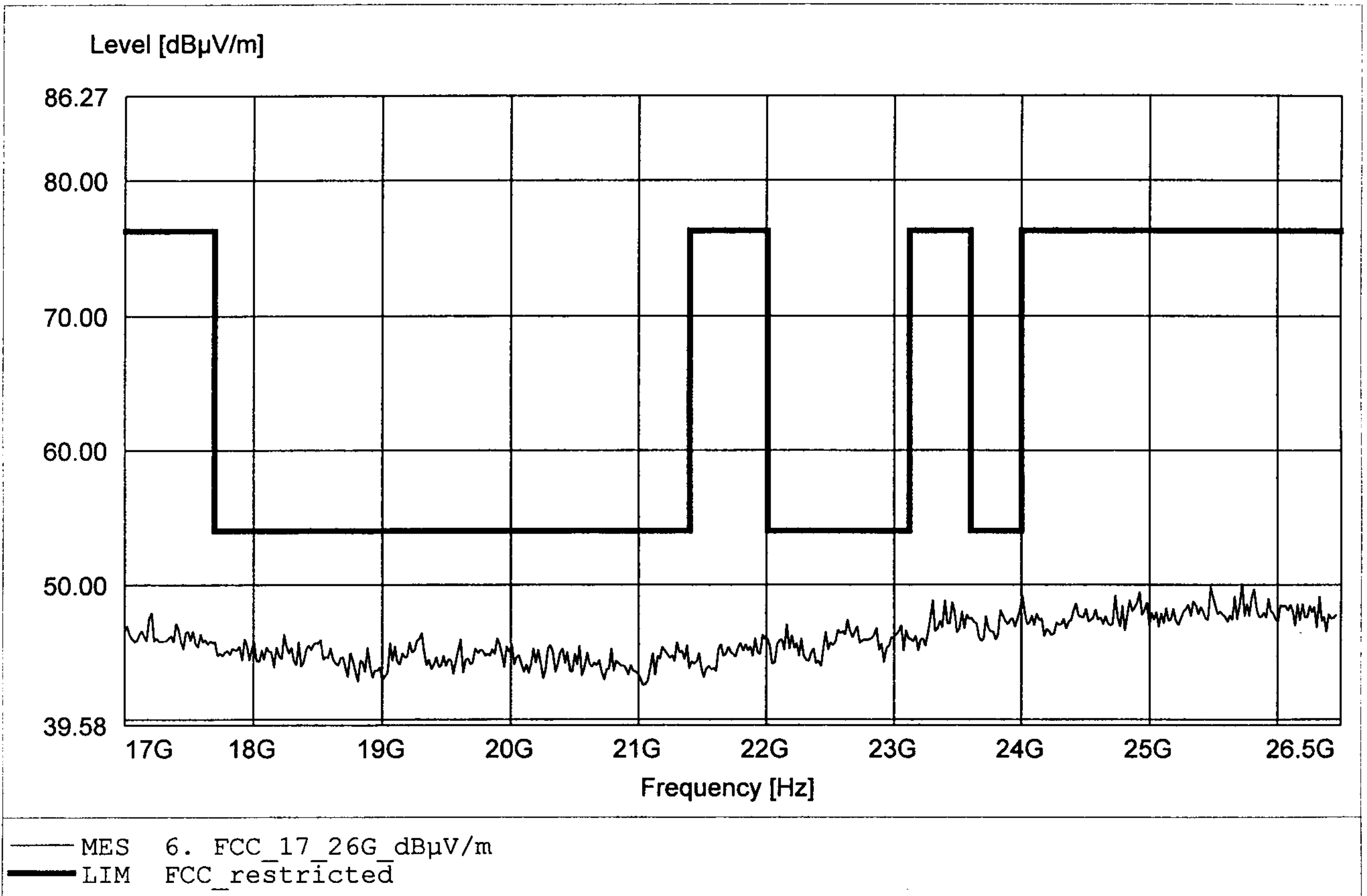
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq:24.311GHz Emax:50.58dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2402 MHz)
Applicant: Lesswire AG

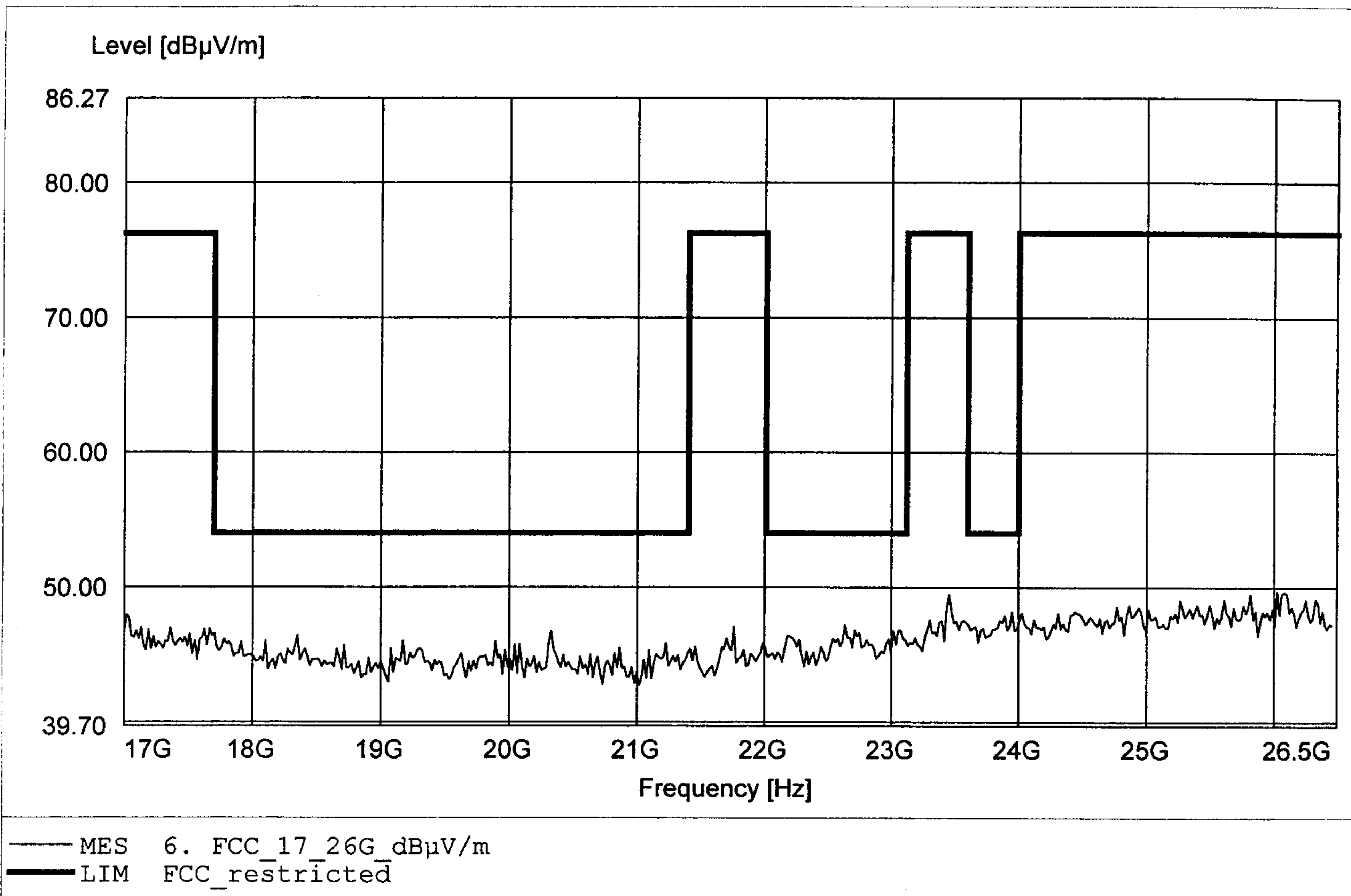
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq:25.719GHz Emax:50.05dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

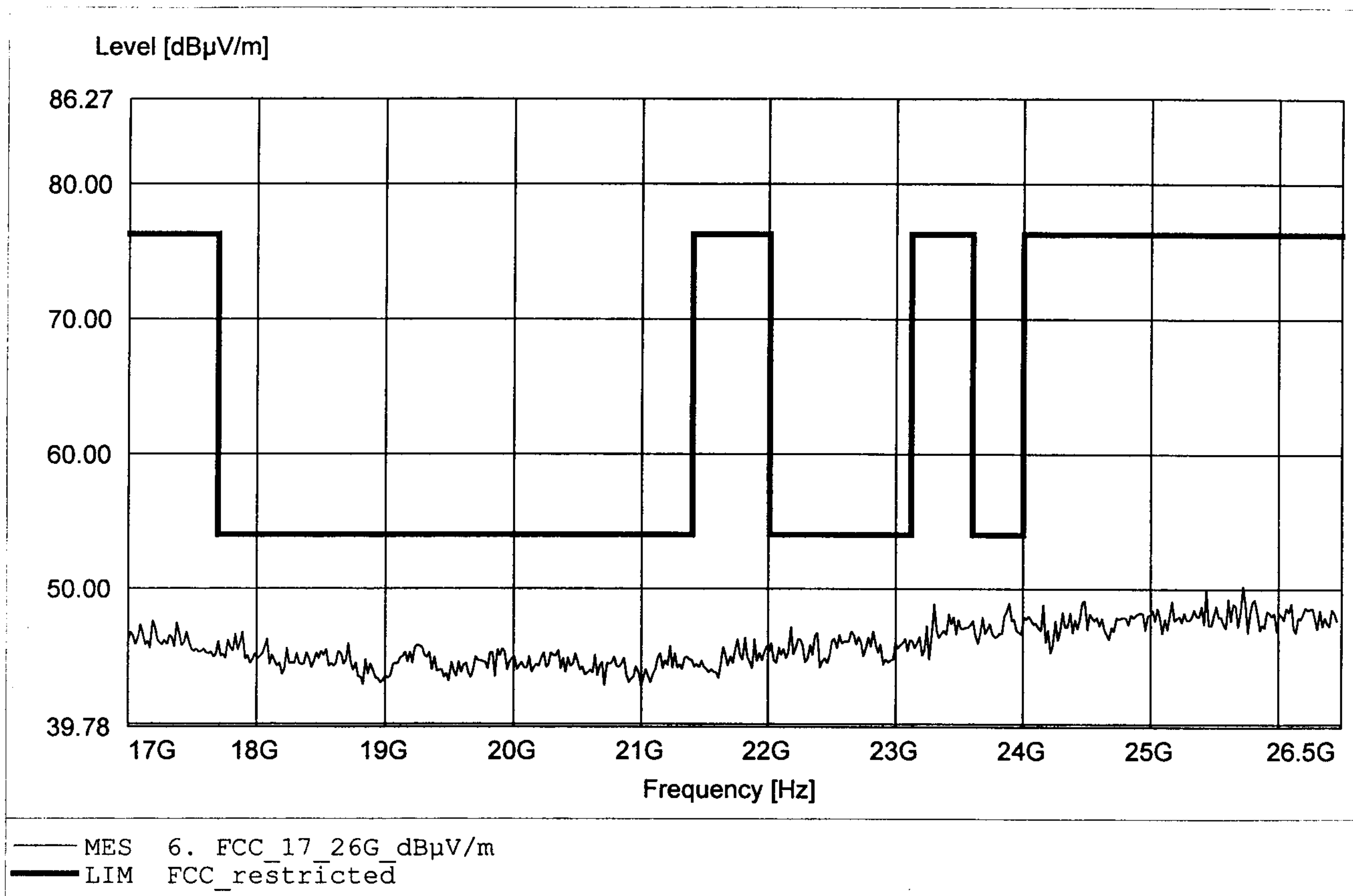
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq:26.024GHz Emax:49.70dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2441 MHz)
Applicant: Lesswire AG

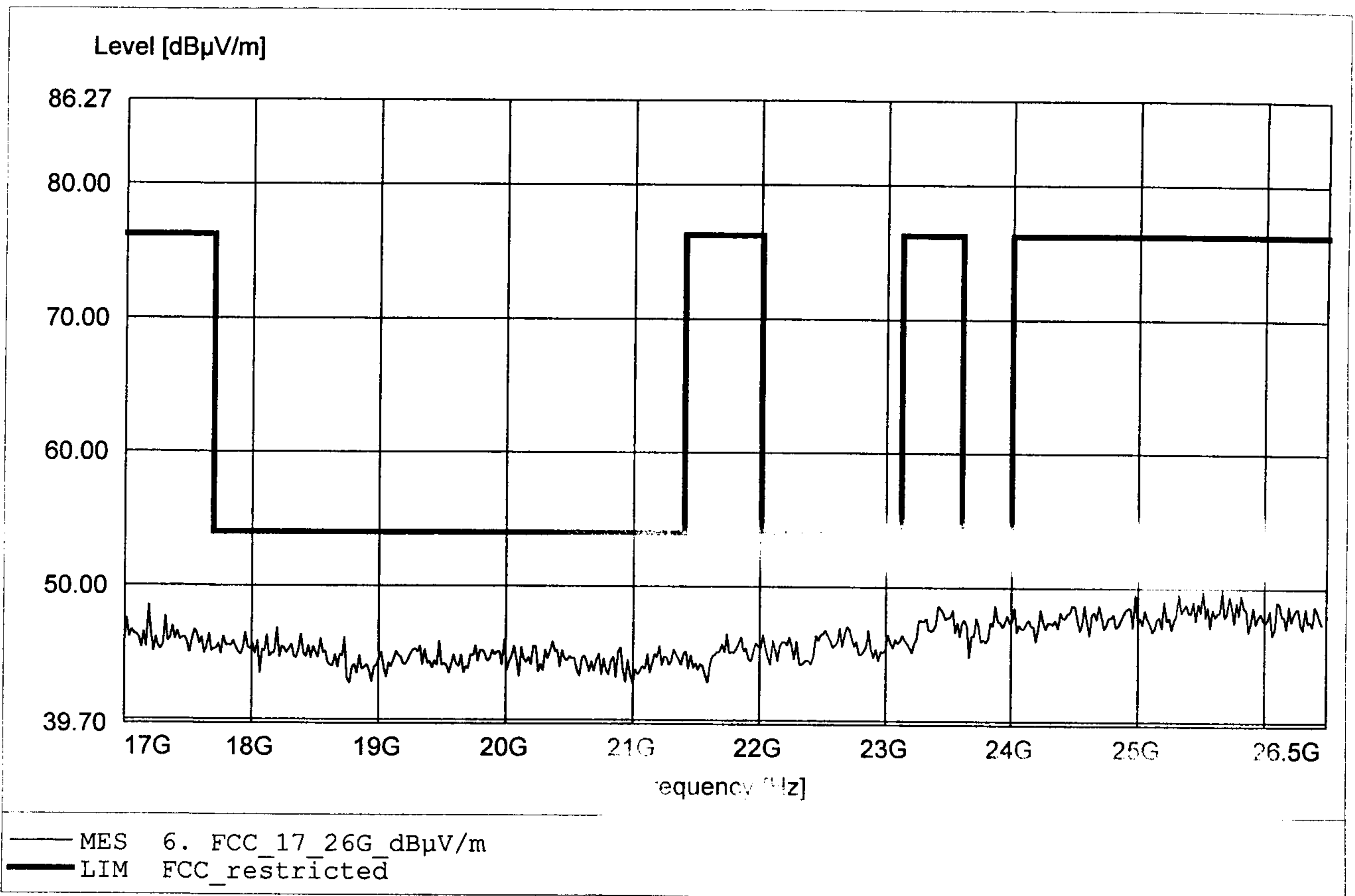
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq:25.719GHz Emax:50.25dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG

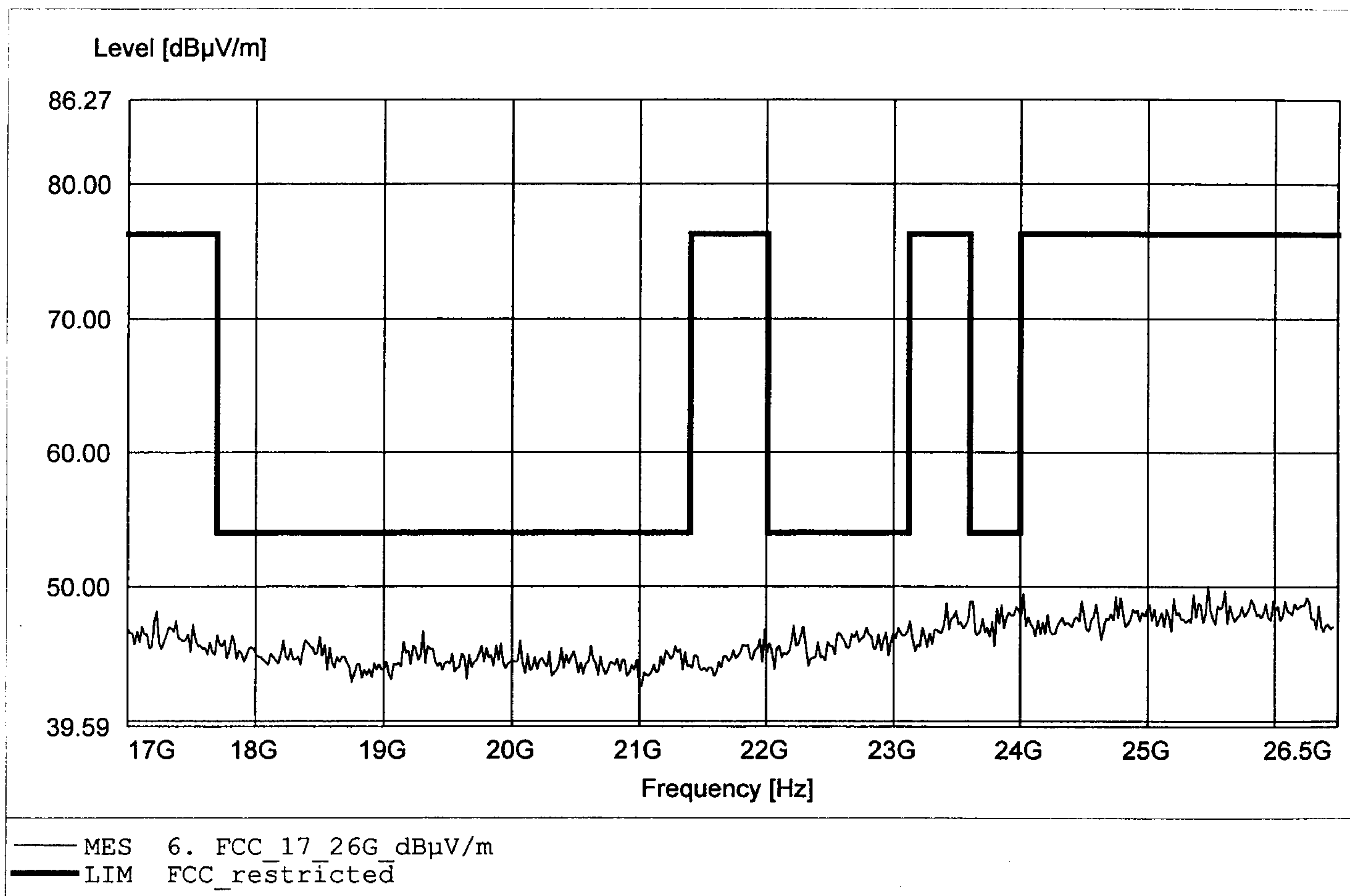
Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq:25.510GHz Emax:50.04dBµV/m RBW:1MHz



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

EUT / Model: Bluetooth Access Point / BS2 (Tx 2480 MHz)
Applicant: Lesswire AG

Temperature/ Voltage: t nom=25°C / Unom= 6V DC
Test Site / Operator: ETS / Mr. Treffke
Test Specification: according to § 15.247
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq:25.472GHz Emax:50.08dBµV/m RBW:1MHz





Appendix D

Spurious Emissions conducted - Transmitter operating

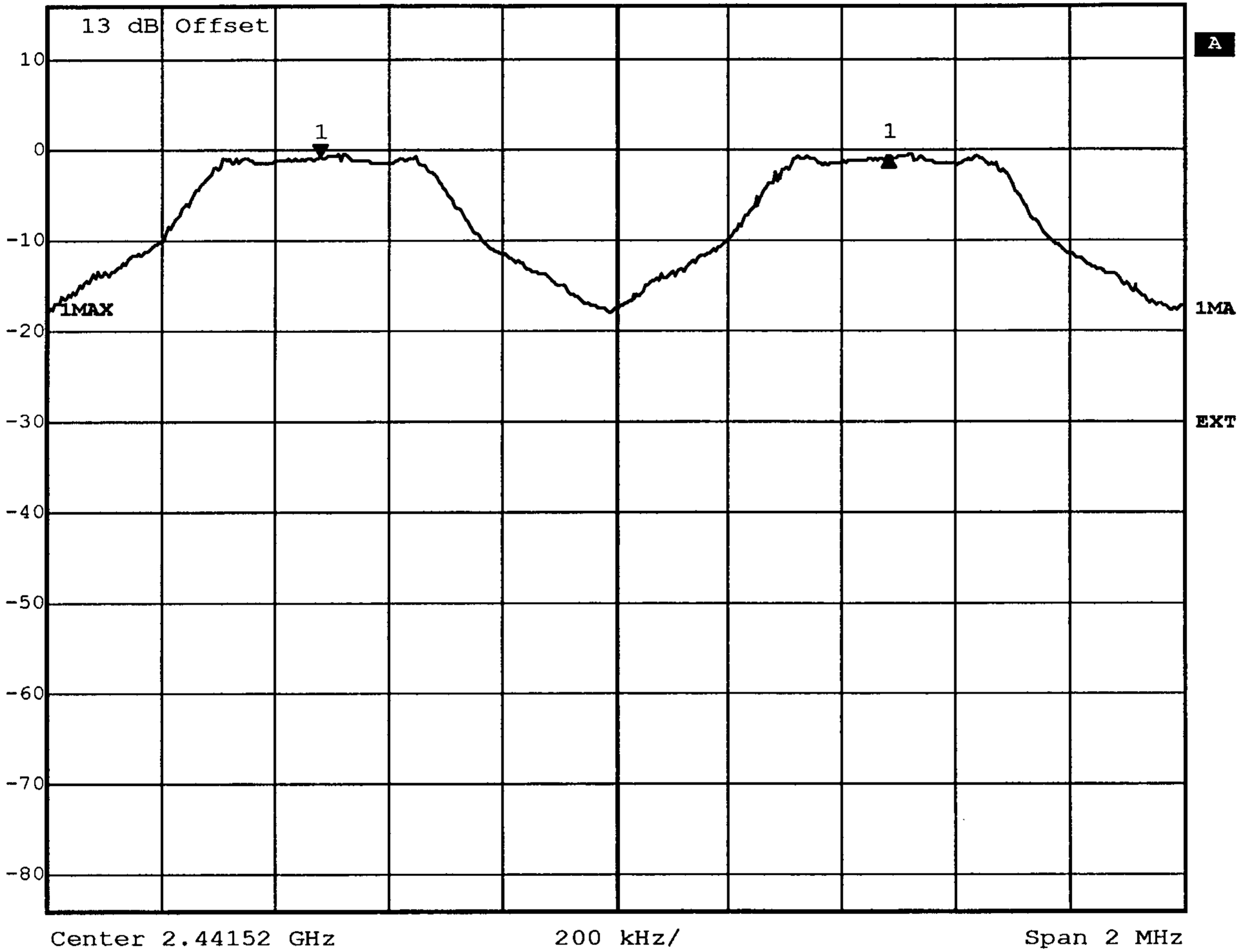


Appendix E

Carrier Frequency Separation



Delta 1 [T1] RBW 100 kHz RF Att 30 dB
Ref Lvl -0.06 dB VBW 100 kHz
16 dBm 1.00296593 MHz SWT 20 ms Unit dBm



Title: Carrier Frequency Separation
Comment A: Lesswire AG, BS2
Date: 8.JUN.2001 14:41:50



Appendix F

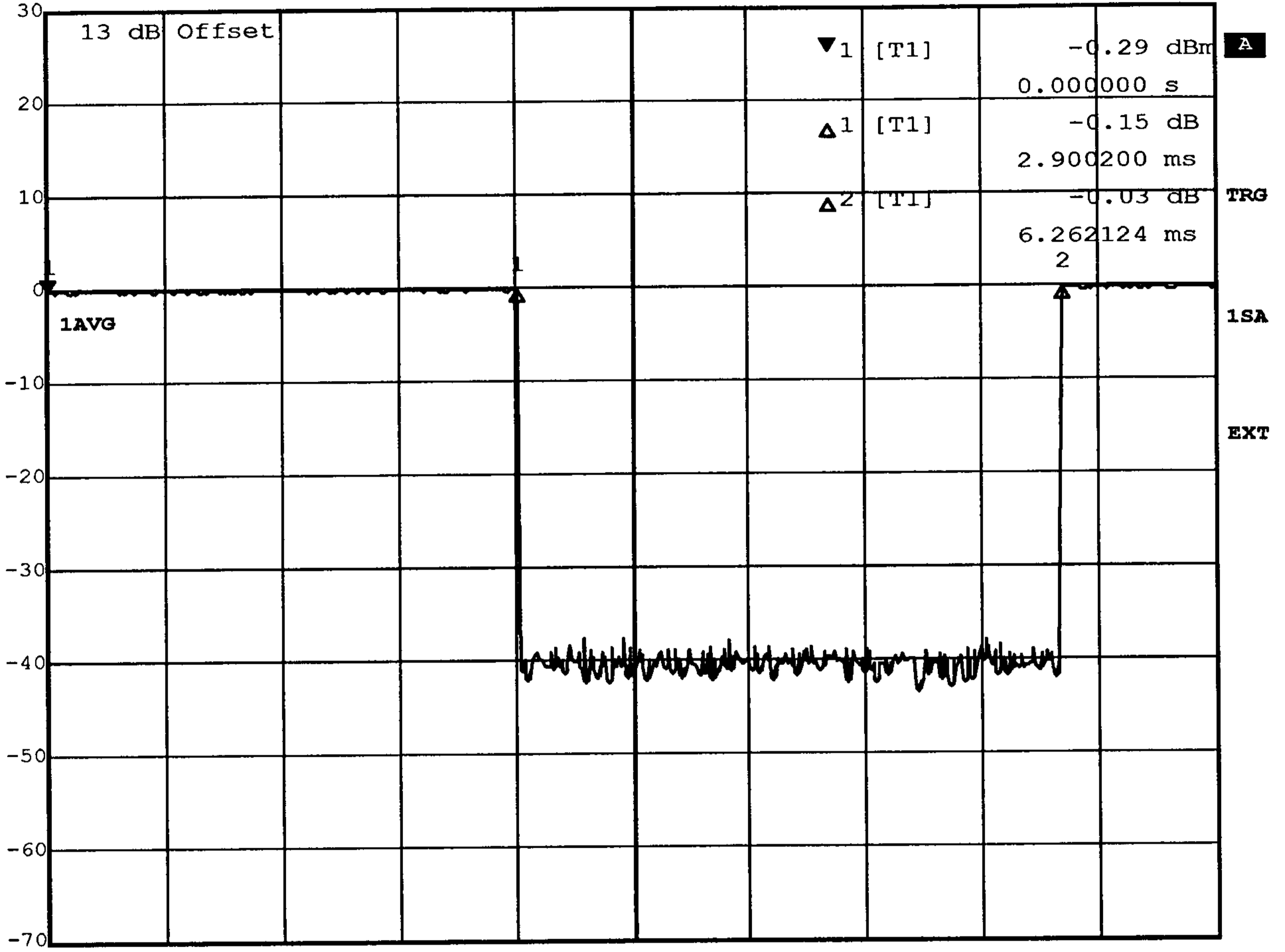
Number of Hopping Frequencies



Appendix G

Time of Occupancy (Dwell Time)

30 dBm 0.000000 s SWT 7.2 ms Unit dBm



Center 2.402 GHz 720 μs/

Title: Dwell Time
Comment A: Lesswire AG
Date: 8.JUN.2001 15:26:06



Appendix H

20dB Bandwidth

```

Access Code from EUT: AD59EE5328A41120D5 hex
Access Code from SU: AD59EE5328A41120D5 hex
Connection Poll Period: 40 Time Slots
Connection Page TO: 9000 Time Slots
Test Parameter Setting Delay: 0 ms
Power Control: Not supported
Add. Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
Longest Packet Type: DH5
Voltage Value 1: 6.000 Volt
Voltage Value 2: 0.000 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 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 2001-06-01, 12:55:08
 Intervention Type 'Please prepare the EUT for Test Mode Activation'
 Operator intervention end at 2001-06-01, 12:55:35

TX [MHz]	RX [MHz]	START [MHz]	STOP [MHz]	LOW [MHz]	HIGH [MHz]	BW [MHz]	LIMIT [MHz]	VERDICT
2402	2480	2401.0	2403.0	2401.632	2402.468	0.836	<= 1.000	PASS

Operator intervention start at 2001-06-01, 12:55:51
 Intervention Type 'Please prepare the EUT for Test Mode Activation'
 Operator intervention end at 2001-06-01, 12:57:04
 2441 2402 2440.0 2442.0 2440.620 2441.448 0.828 <= 1.000 PASS
 Operator intervention start at 2001-06-01, 12:57:18
 Intervention Type 'Please prepare the EUT for Test Mode Activation'
 Operator intervention end at 2001-06-01, 12:57:38
 2480 2402 2479.0 2481.0 2479.616 2480.436 0.820 <= 1.000 PASS

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

```

# Duration 00:02:49
# Final Test Case verdict: PASS
# Report file closed at 2001-06-01, 12:57:54

```

```

=====
# 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: 2001-06-01, 12:55:05 (ets_1)
# Report File: /home/ts8960/project/ts8960/sw/ALE/tc/dat/Lessw_cert/lessw_cert.ta.rep
# Eut File: Lessw_cert
# Operator's account name: ts8960
# Global Parameter Settings:
#
# Wait On Compare : No
# Wait On OUTSIDE : No
# Wait On FAIL : No
# Abort 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
. .
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:

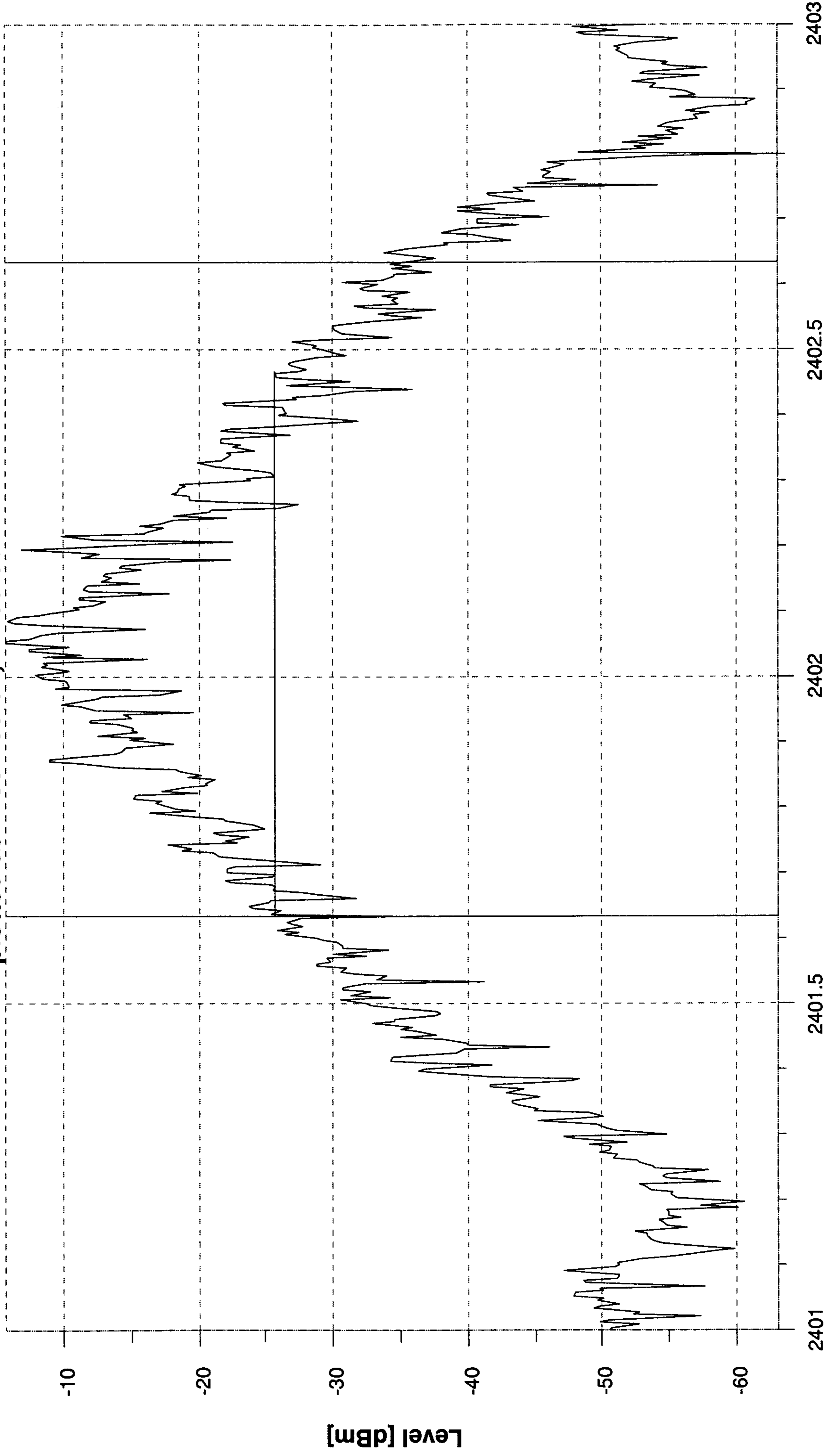
```

Manufacturer: Lesswire AG
Model: Bluetooth Access Point / Local Navigator Bluetooth Ba
Serial No: no info
Comment: no info
Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Pseudo Whitening: Off
Host Connection Request: No
EUT Address: 00000000A001 hex
Tester Address: 008037122094 hex
Active Member Address: 00000007 hex

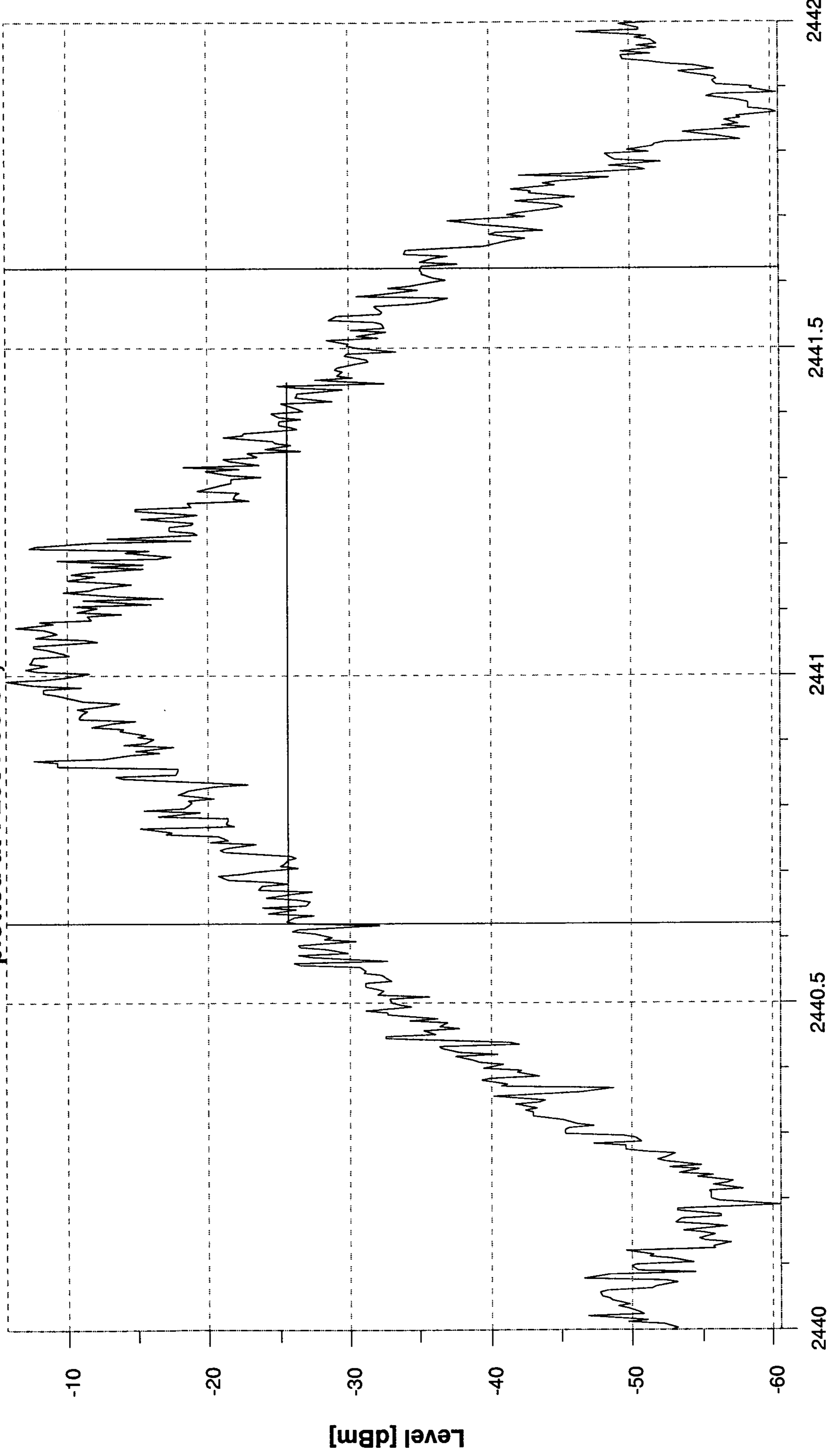
```

Results TC TX Output Spectrum - 20 dB Bandwidth -EUT TX Frequency 2402.000 MHz

plotted at : 2001-06-01, 12:55:50

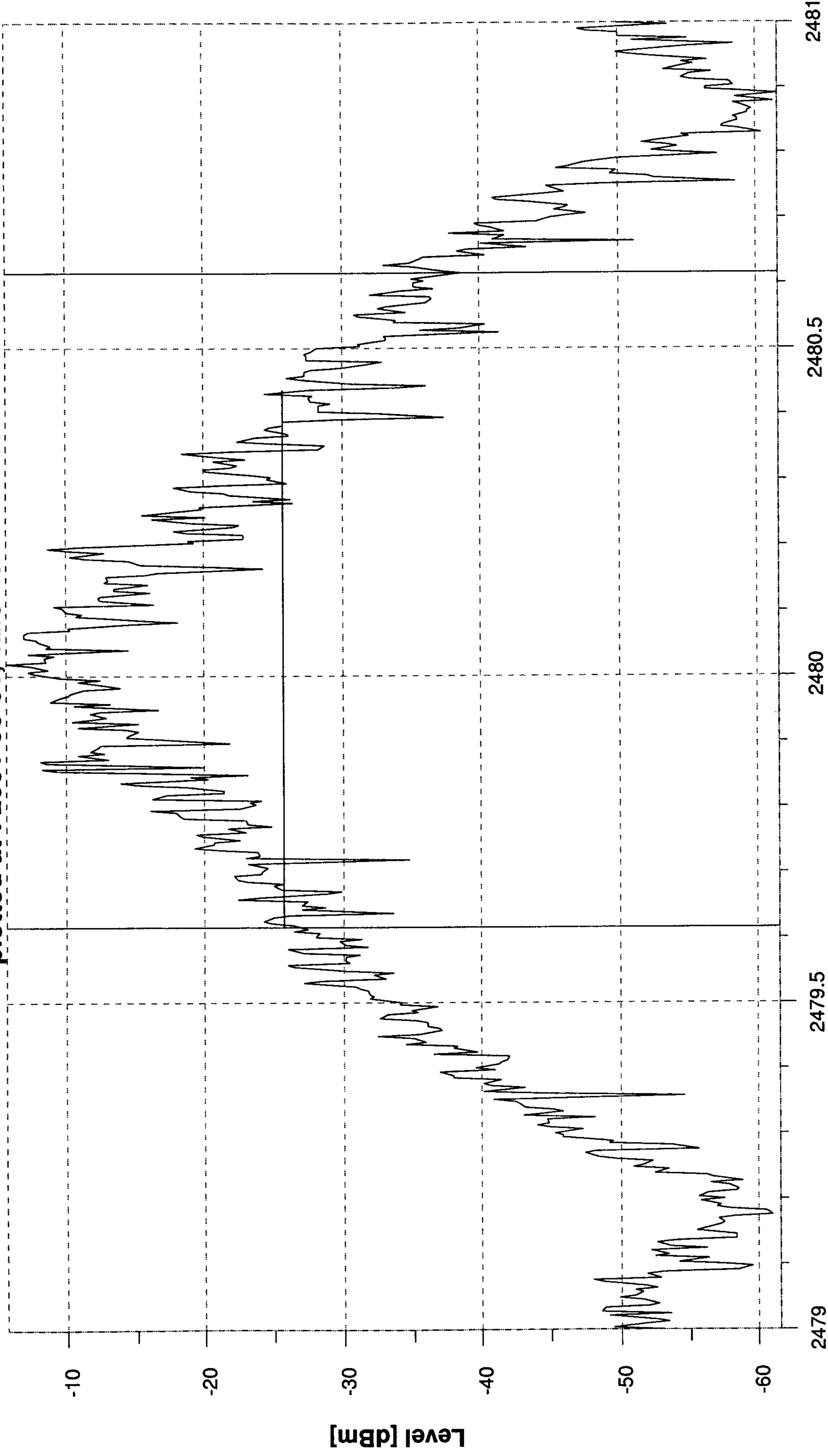


**Results TC TX Output Spectrum - 20 dB Bandwidth -EUT TX Frequency 2441.000 MHz
plotted at : 2001-06-01, 12:57:17**



Results TC TX Output Spectrum - 20 dB Bandwidth -EUT TX Frequency 2480.000 MHz

plotted at : 2001-06-01, 12:57:54



Frequency [MHz]



Appendix I

Band-edge Compliance of RF Emissions

```

=====
# ROHDE & SCHWARZ Certific. Bluetooth Test System TS8960 SW Version: b1_23
#
# Program name: tc_AllPower
#
# All Power Measurement Test Cases
#
#-----
# Test Case started: 2001-06-01, 12:55:05 (ets_1)
# Report File: /home/ts8960/project/ts8960/sw/ALE/tc/dat/Lessw_cert/Lessw_cert.ta.rep
# Eut File: Lessw_cert
# Operator's account name: ts8960
#
# Global Parameter Settings:
#
# Wait On Compare : No
# Wait On OUTSIDE : No
# Wait On FAIL : No
# Abort 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

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: Lesswire AG
Model: Bluetooth Access Point / Local Navigator Bluetooth Ba
se Station
Serial No: no info
Comment: no info
Setup mode: Final Testing
Test Mode Handle: Every Parameter Set
Country: All
Pseudo Whitening: Off
Host Connection Request: No
EUT Address: 00000000A001 hex
Tester Address: 008037122094 hex
Active Member Address: 00000007 hex

```

```

Access Code from EUT: AD59EE5328A41120D5 hex
Access Code from SU: AD59EE5328A41120D5 hex
Connection Poll Period: 40 Time Slots
Connection Page TO: 9000 Time Slots
Test Parameter Setting Delay: 0 ms
Power Control: Not supported
Add. Transmission (Receive): 0.000 dB
Add. Transmission (Transmit): 0.000 dB
Longest Packet Type: DH5
Voltage Value 1: 6.000 Volt
Voltage Value 2: 0.000 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 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 2001-06-01, 12:55:08
 Intervention Type 'Please prepare the EUT for Test Mode Activation'
 Operator intervention end at 2001-06-01, 12:55:35

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

2402	2480	2401.0	2403.0	2401.632	2402.468	0.836	<= 1.000	PASS
Operator intervention start at 2001-06-01, 12:55:51								
Intervention Type 'Please prepare the EUT for Test Mode Activation'								
Operator intervention end at 2001-06-01, 12:57:04								
2441	2402	2440.0	2442.0	2440.620	2441.448	0.828	<= 1.000	PASS
Operator intervention start at 2001-06-01, 12:57:18								
Intervention Type 'Please prepare the EUT for Test Mode Activation'								
Operator intervention end at 2001-06-01, 12:57:38								
2480	2402	2479.0	2481.0	2479.616	2480.436	0.820	<= 1.000	PASS

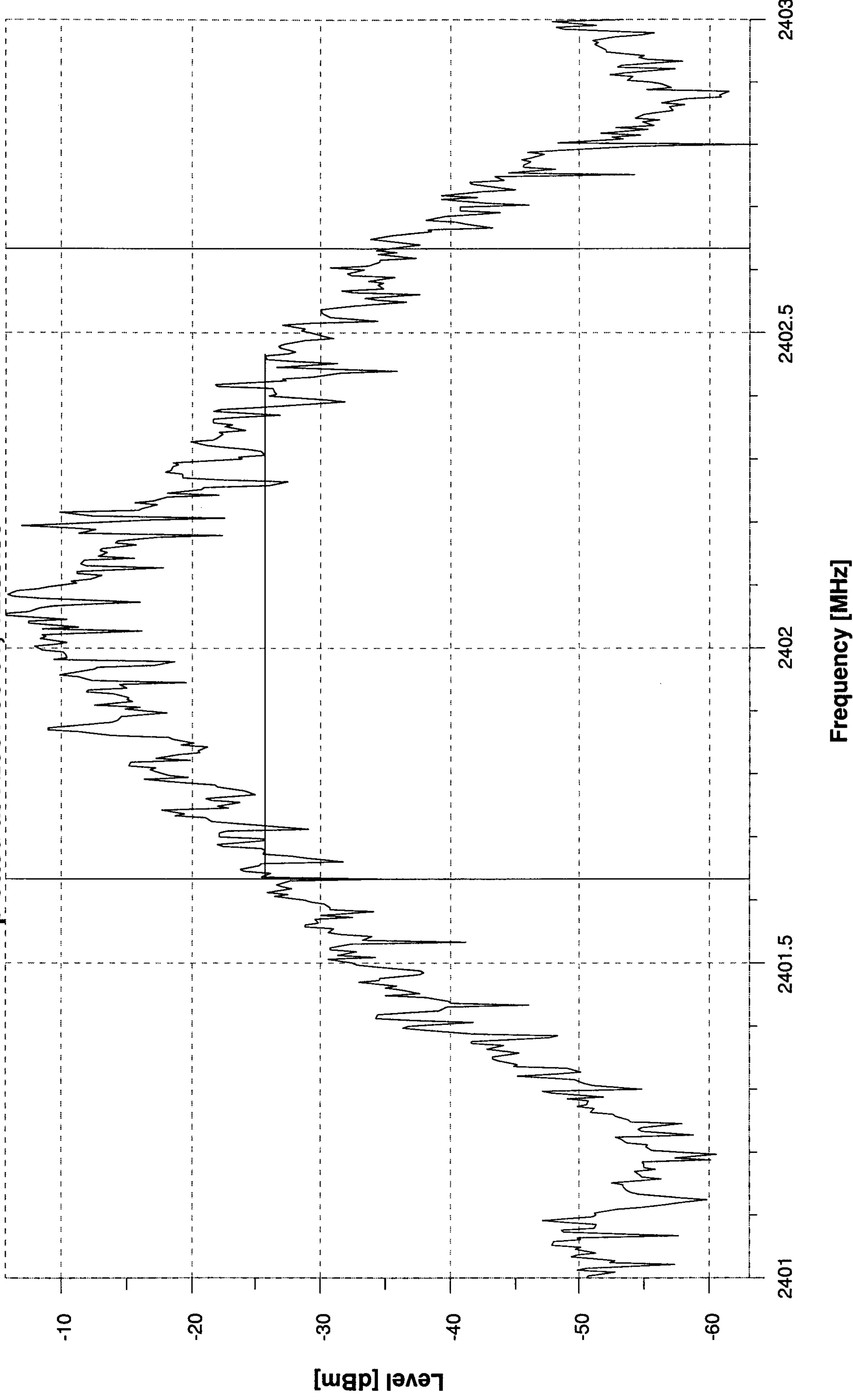
All selected TX Output Spectrum - 20 dB Bandwidth tests are completed

```

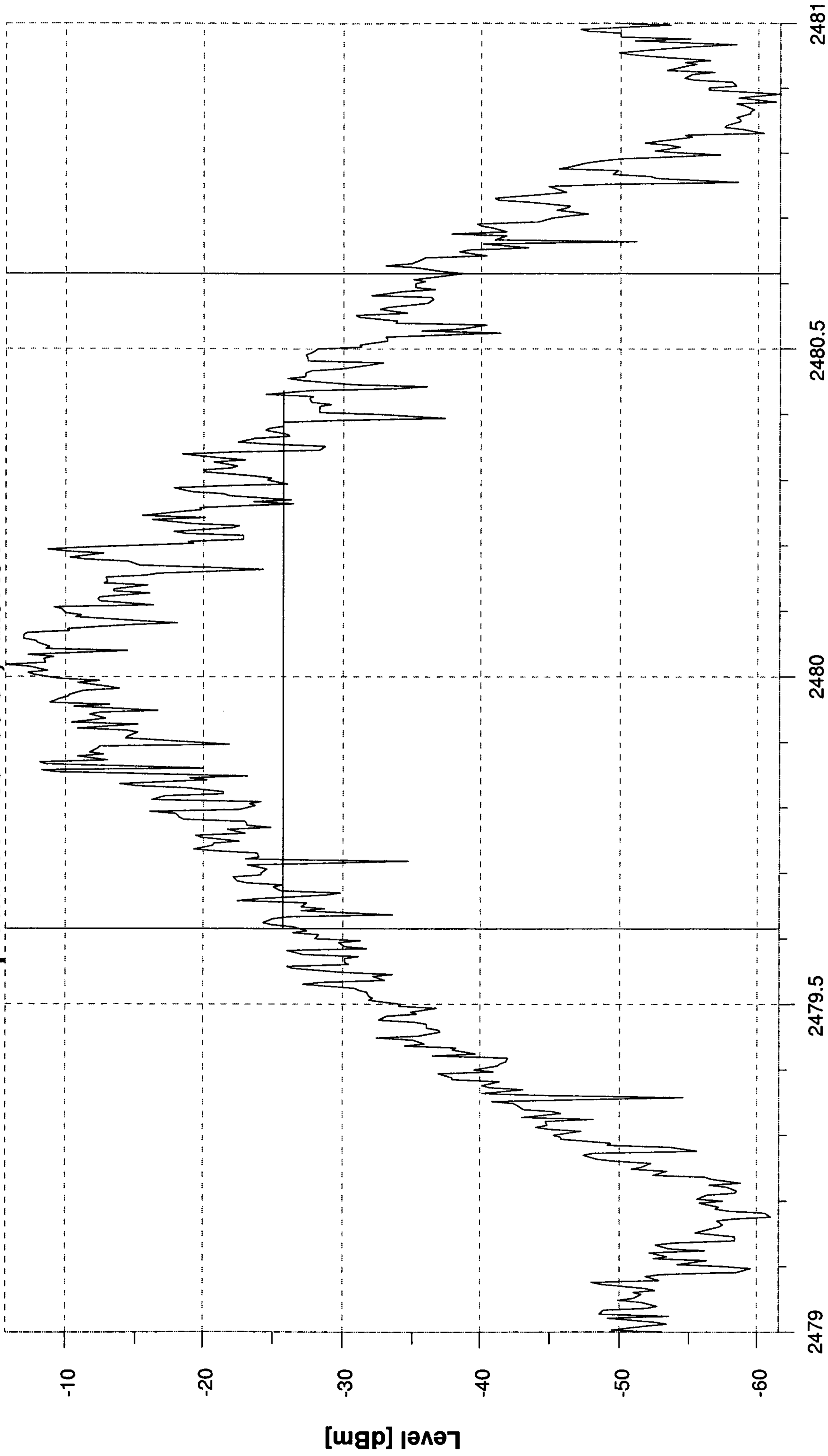
# Duration 00:02:49
# Final Test Case verdict: PASS
# Report file closed at 2001-06-01, 12:57:54

```

**Results TC TX Output Spectrum - 20 dB Bandwidth -EUT TX Frequency 2402.000 MHz
plotted at : 2001-06-01, 12:55:50**



**Results TC TX Output Spectrum - 20 dB Bandwidth -EUT TX Frequency 2480.000 MHz
plotted at : 2001-06-01, 12:57:54**



Frequency [MHz]



Appendix J

Conducted Measurement at (AC) Power Line

EMI voltage test in the dc-mains according to FCC part 15

EUT: BLUETOOTH ACCES POINT
 Manufacturer: LESSWIRE AG
 Operating Condition: Unom: +6VDC , Tnom: 23°C
 Test Site: ETS
 Operator: Mr. Pflug
 Test Specification: V-Network: ESH3-Z5
 Comment: model: BS 2 LOCAL NAVIGATOR BLUETOOTH BASE STATION
 Start of Test:

