# **Appendix B**

RF power output conducted

### FCC part 15.247 Peak output power conducted

EUT Hamburg MP 68 Model 7648 011 310 Approval Holder Blaupunkt GmbH

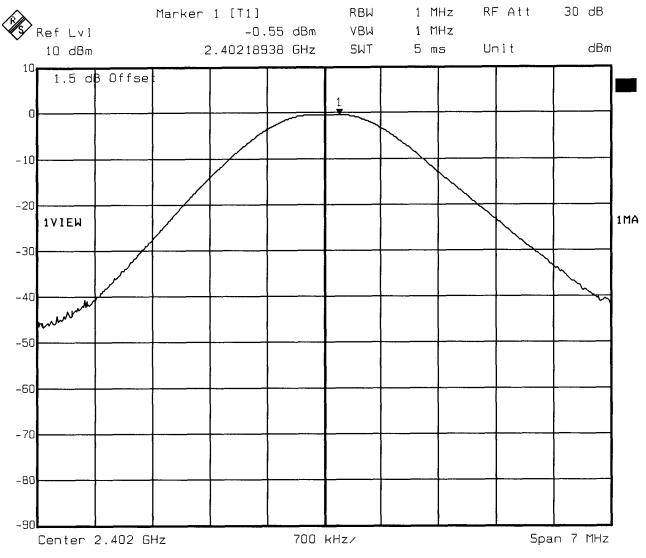
Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC

Test Site / Operator Eurofins ETS Product Service AG / Mr. Handrik

Test Specification FCC part 15 section 247(b)

Comment 1 Peak output power Comment 2 Channel.: 0 / 2402 MHz

Comment 3



Date:

30.JAN.2008 09:41:54



### FCC part 15.247 Peak output power conducted

EUT Hamburg MP 68 Model 7648 011 310 Approval Holder Blaupunkt GmbH

Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC

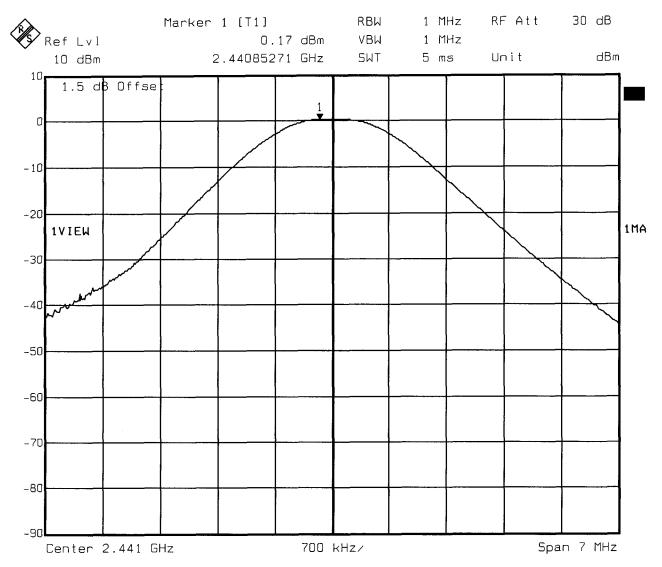
Test Site / Operator Eurofins ETS Product Service AG / Mr. Handrik

Test Specification FCC part 15 section 247(b)

Comment 1 Peak output power

Comment 2 Channel.: 39 / 2441 MHz

Comment 3



Date:

30.JAN.2008 09:45:47



### FCC part 15.247 Peak output power conducted

EUT Hamburg MP 68 Model 7648 011 310 Approval Holder Blaupunkt GmbH

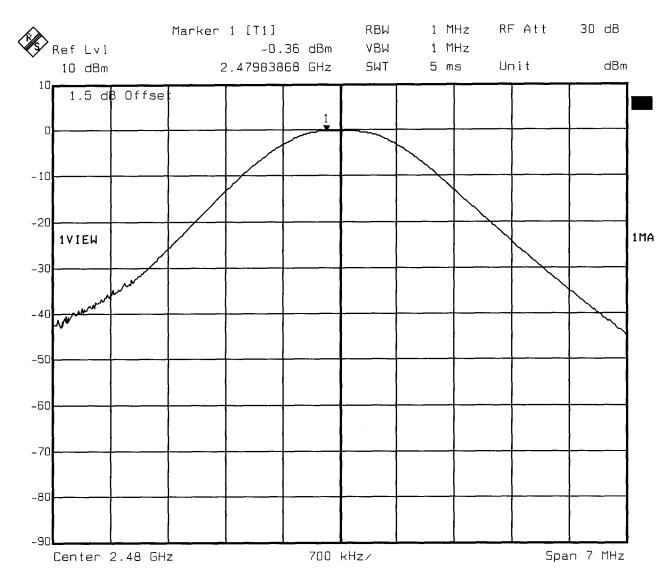
Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC

Test Site / Operator Eurofins ETS Product Service AG / Mr. Handrik

Test Specification FCC part 15 section 247(b)

Comment 1 Peak output power Comment 2 Channel: 78 / 2480 MHz

Comment 2 Comment 3



Date: 30.JAN.2008 09:47:14

# Appendix C

20 dB bandwidth



#### FCC part 15.247 20 dB bandwidth

EUT Hamburg MP 68 Model 7648 011 310 Approval Holder Blaupunkt GmbH

Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC

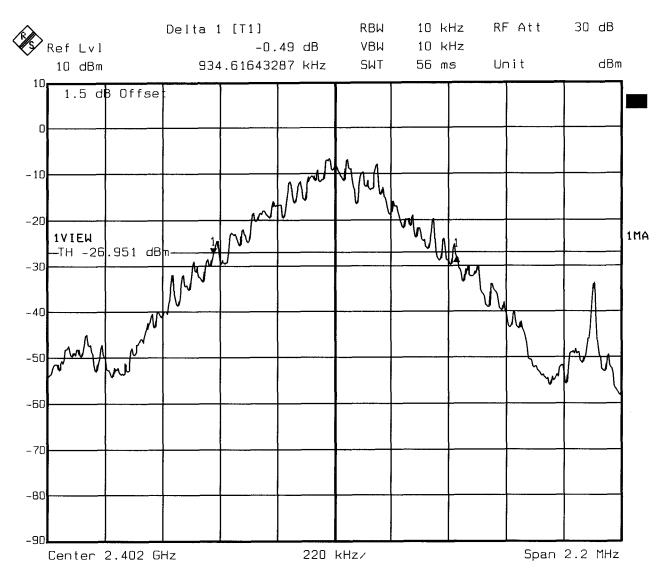
Test Site / Operator Eurofins ETS Product Service AG / Mr. Handrik

Test Specification FCC part 15 section 247(a)

Comment 1 20 dB bandwidth

Comment 2 Channel.: 0 / 2402 MHz

Comment 3



Comment A: 20 dB bandwidth: 934.6 KHz Date: 30.JAN.2008 09:50:11



#### FCC part 15.247 20 dB bandwidth

**EUT** 

Hamburg MP 68

Model

7648 011 310

Approval Holder

Blaupunkt GmbH

Test Site / Operator

Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC Eurofins ETS Product Service AG / Mr. Handrik

FCC part 15 section 247(a)

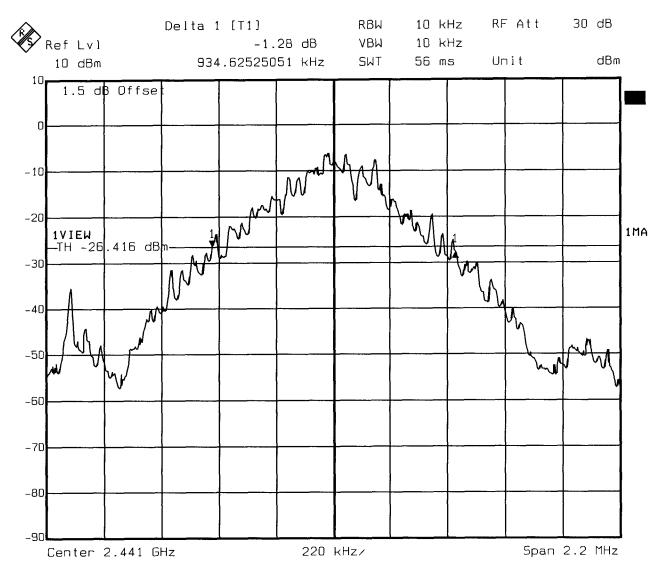
**Test Specification** 

20 dB bandwidth

Comment 1 Comment 2

Channel.: 39 / 2441 MHz

Comment 3



Comment A: 20 dB bandwidth: 934.6 KHz

30.JAN.2008 09:53:53



#### FCC part 15.247 20 dB bandwidth

**EUT** 

Hamburg MP 68

Model

7648 011 310

Approval Holder

Blaupunkt GmbH

Unom.: 13.5 V DC Temperature / Voltage Tnom.: 23°C /

Test Site / Operator

Eurofins ETS Product Service AG / Mr. Handrik FCC part 15 section 247(a)

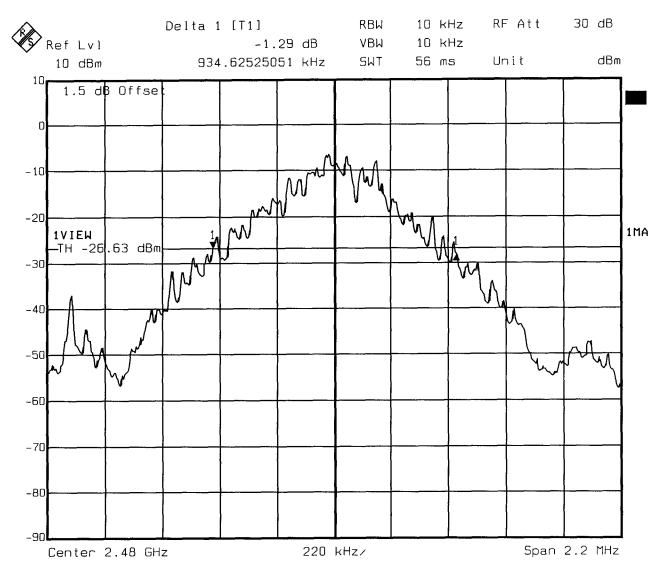
**Test Specification** 

20 dB bandwidth

Comment 1 Comment 2

Channel.: 78 / 2480 MHz

Comment 3



Comment A: 20 dB bandwidth: 934.6 KHz

Date:

30.JAN.2008 10:01:12



#### RSS Gen Occupied Bandwidth

EUT Hamburg MP 68 Model 7648 011 310 Approval Holder Blaupunkt GmbH

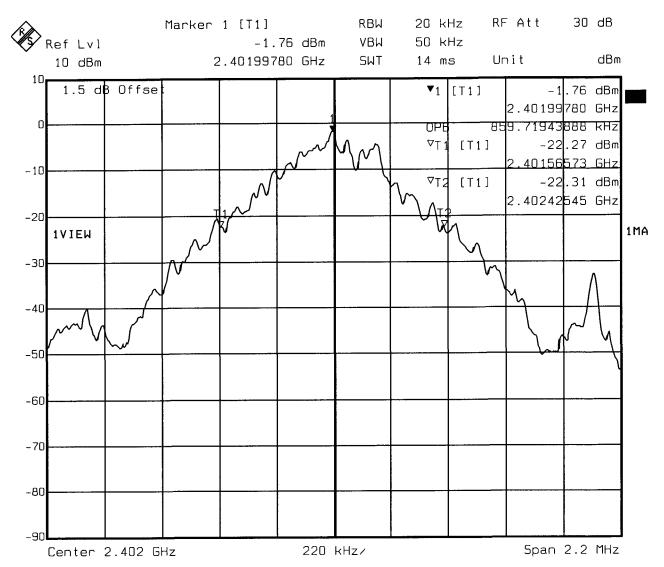
Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC

Test Specification 4.4.1 Occupied Bandwidth Channel: 0 / 2402 MHz

Comment 2 A spectrum analyzer with an integrated 99% power bandwidth

function is used

Comment 3



Comment A: Occupied bandwidth: 859.7 KHz

Date: 30.JAN.2008 11:18:18

#### RSS Gen Occupied Bandwidth

EUT Hamburg MP 68 Model 7648 011 310 Approval Holder Blaupunkt GmbH

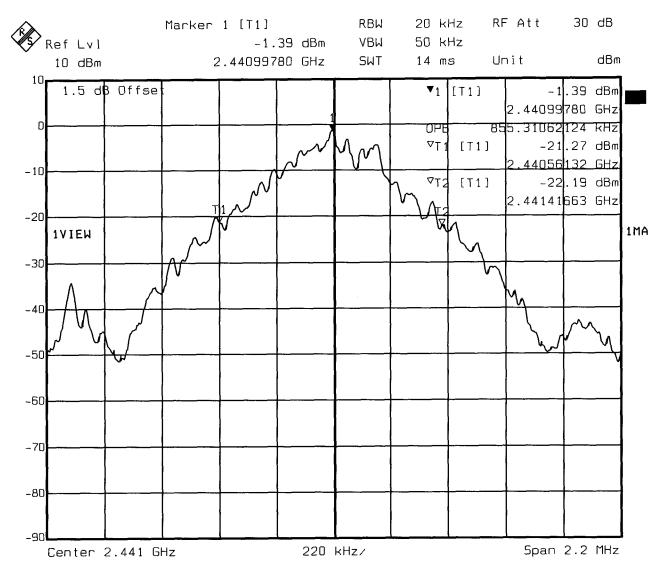
Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC

Test Specification 4.4.1 Occupied Bandwidth Channel.: 39 / 2441 MHz

Comment 2 A spectrum analyzer with an integrated 99% power bandwidth

function is used

Comment 3



Comment A: Occupied bandwidth: 855.3 KHz

Date: 30.JAN.2008 11:31:01

#### **RSS Gen Occupied Bandwidth**

**EUT** 

Hamburg MP 68

Model

7648 011 310

Approval Holder

Blaupunkt GmbH

Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC

Test Site / Operator

Eurofins ETS Product Service AG / Mr. Handrik

**Test Specification** 

4.4.1 Occupied Bandwidth

Comment 1

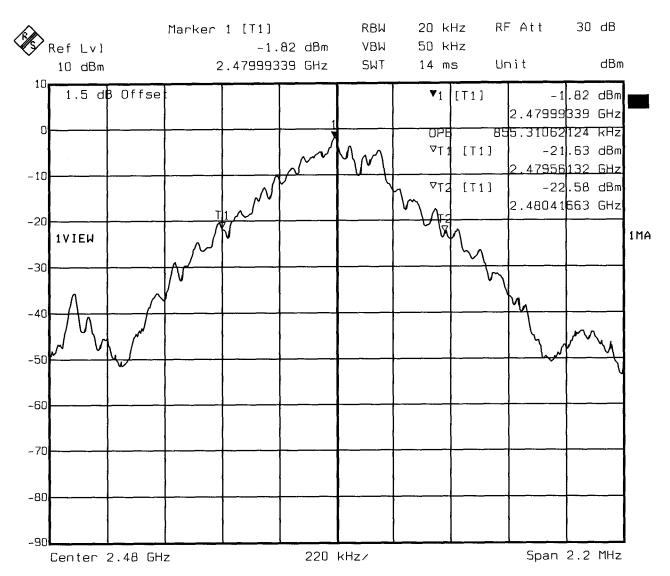
Channel.: 78 / 2480 MHz

Comment 2

A spectrum analyzer with an integrated 99% power bandwidth

function is used

Comment 3



Comment A: Occupied bandwidth: 855.3 KHz

30.JAN.2008 11:33:41 Date:

# **Appendix D**

Time of occupancy (dwell time)

#### FCC part 15.247 Time of occupancy (dwell time)

EUT

Hamburg MP 68

Model

7648 011 310

Approval Holder

Blaupunkt GmbH

Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC

Test Site / Operator

Eurofins ETS Product Service AG / Mr. Handrik

**Test Specification** 

FCC part 15 section 247(a)

Comment 1

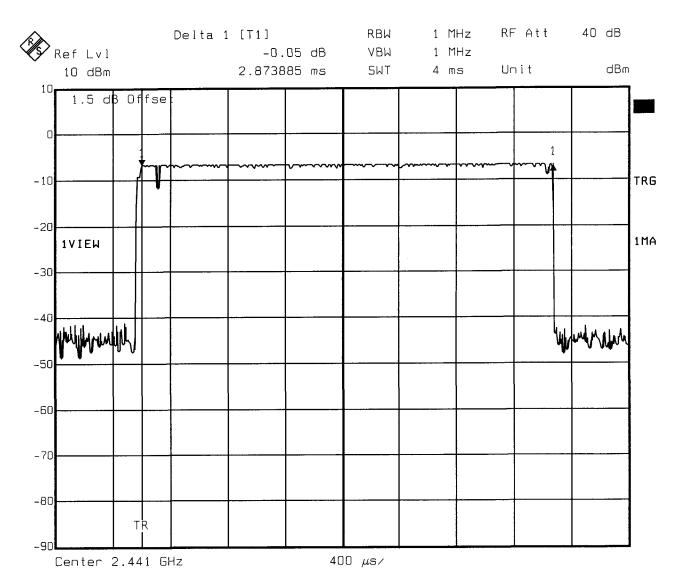
Comment 2

Time of occupancy Channel.: 39 / 2441 MHz (Hopping mode)

Comment 3

63 events \* 2.874 ms

result: 181.062 ms



Date:

30.JAN.2008 11:10:00



#### FCC part 15.247 Duty cycle

EUT

Hamburg MP 68

Model Approval Holder 7648 011 310 Blaupunkt GmbH

Temperature / Voltage Tnom.: 23°C /

rnom.: 23°C / Unom.: 13.5 V DC

Test Site / Operator

Eurofins ETS Product Service AG / Mr. Handrik

**Test Specification** 

FCC part 15 section 247(b)

Comment 1

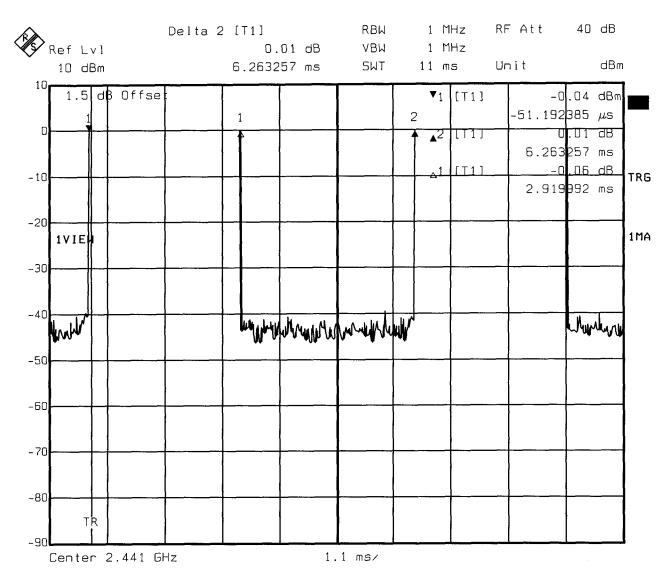
Duty cycle

Comment 2

Channel.: 39 / 2441 MHz

Comment 3

Duty cycle = 32%



Date:

30.JAN.2008 10:47:28

# **Appendix E**

Number of hopping frequencies

EUT

Hamburg MP 68

Model

7648 011 310

Approval Holder

Blaupunkt GmbH

Test Site / Operator

Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC

Test Specification

Eurofins ETS Product Service AG / Mr. Handrik

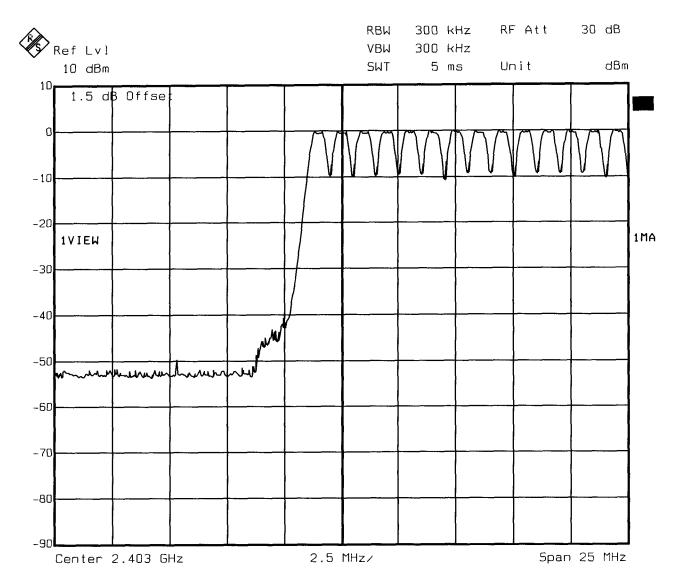
Comment 1

FCC part 15 section 247(a) Number of hopping frequencies

Comment 2

Channel.: 0-13

Comment 3



Comment A: Number of hopping frequencies

Date:

30.JAN.2008 10:58:42



EUT

Hamburg MP 68

Model

7648 011 310

Approval Holder

Blaupunkt GmbH

Test Site / Operator

Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC

Test Specification

Eurofins ETS Product Service AG / Mr. Handrik

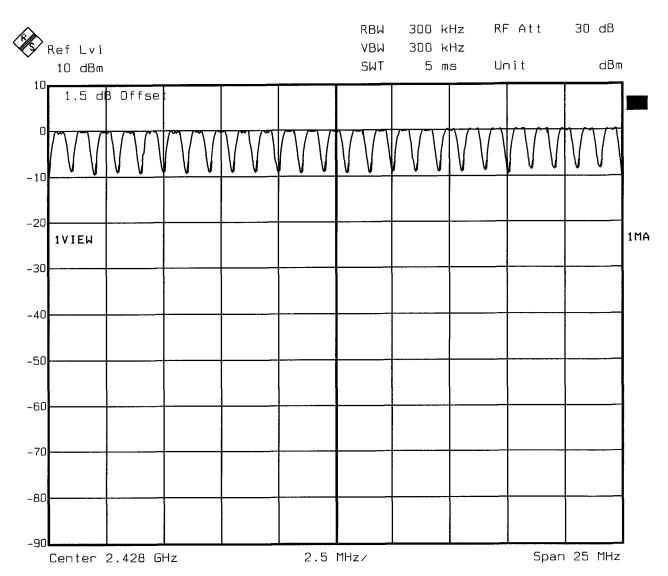
Comment 1

FCC part 15 section 247(a)

Comment 2

Number of hopping frequencies Channel.: 14-38

Comment 3



Comment A: Number of hopping frequencies

Date:

30.JAN.2008 11:01:44

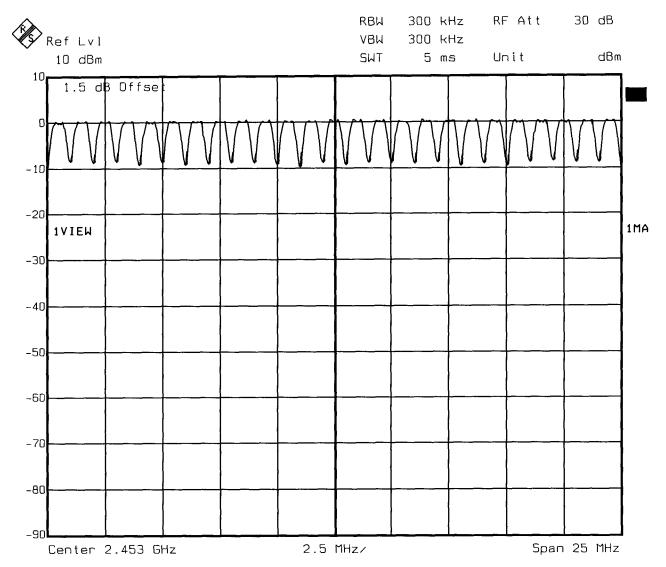
EUT Hamburg MP 68 Model 7648 011 310 Approval Holder Blaupunkt GmbH

Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC

Test Specification FCC part 15 section 247(a)
Comment 1 Number of hopping frequencies

Comment 2 Channel::39-63

Comment 3



Comment A: Number of hopping frequencies

Date: 30.JAN.2008 11:04:10

**EUT** 

Hamburg MP 68

Model

7648 011 310

Approval Holder

Blaupunkt GmbH

Test Site / Operator

Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC Eurofins ETS Product Service AG / Mr. Handrik

**Test Specification** 

FCC part 15 section 247(a)

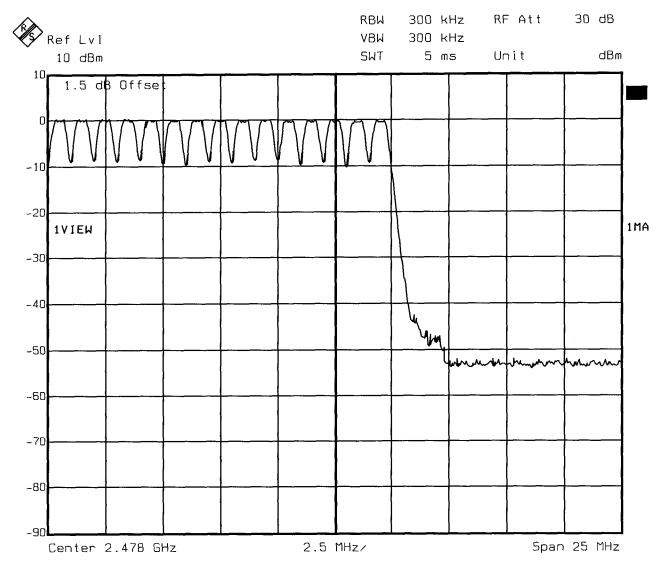
Comment 1

Number of hopping frequencies

Comment 2

Channel .: 64-78

Comment 3



Comment A: Number of hopping frequencies

Date:

30.JAN.2008 11:06:10

# Appendix F

Carrier frequency separation



#### FCC part 15.247 Carrier frequency separation

**EUT** 

Hamburg MP 68

Model

7648 011 310

Approval Holder

Blaupunkt GmbH

Test Site / Operator

Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC Eurofins ETS Product Service AG / Mr. Handrik

**Test Specification** 

FCC part 15 section 247(a)(1)

Comment 1

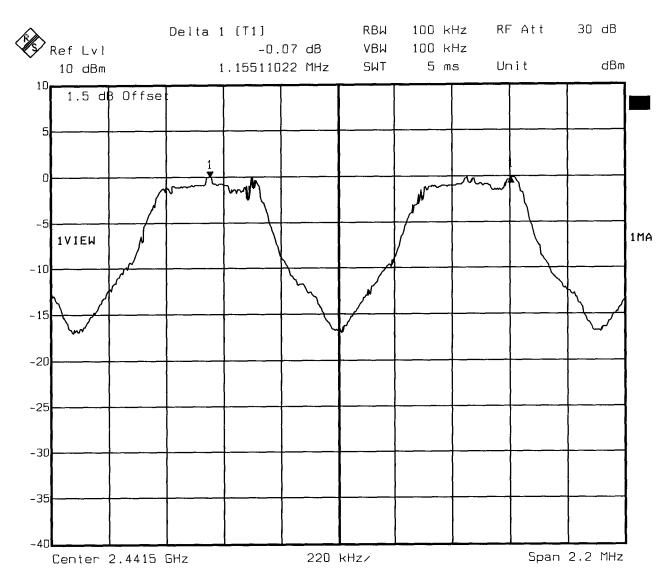
Comment 2

Carrier frequency separation

Channel.: 39/40 / 2441/2442 MHz

Comment 3

Hopping mode



Comment A: Limit: > two-thirds of the 20 dB bandwidth ; Result: Pass

30.JAN.2008 10:44:45 Date:



# Appendix G

Spurious emission radiated

#### Carrier power (Field Strength)

#### FCC RULES PART 15, SUBPART C

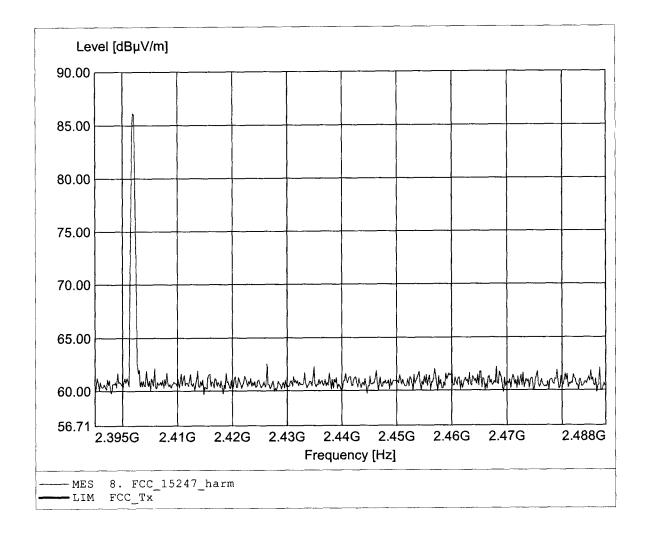
Approval Holder:

Blaupunkt GmbH

EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz
Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Emax: 86.13dBµV/m, RBW: 100kHz



#### FCC RULES PART 15, SUBPART C

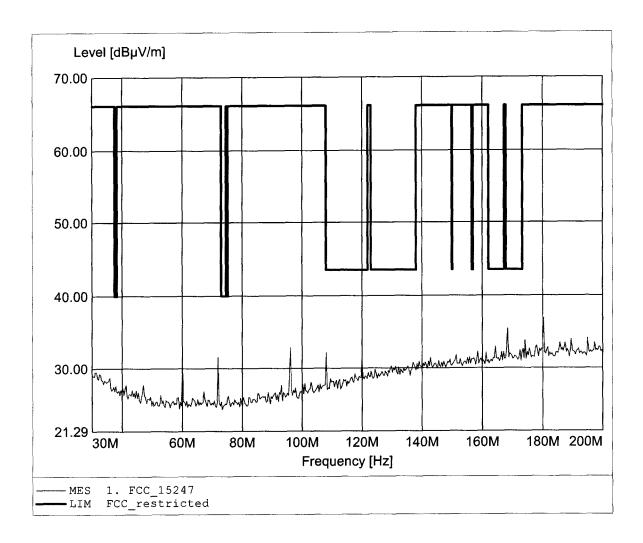
Approval Holder:

Blaupunkt GmbH

EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz
Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 180.240MHz, Emax: 36.87dBµV/m, RBW: 100kHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

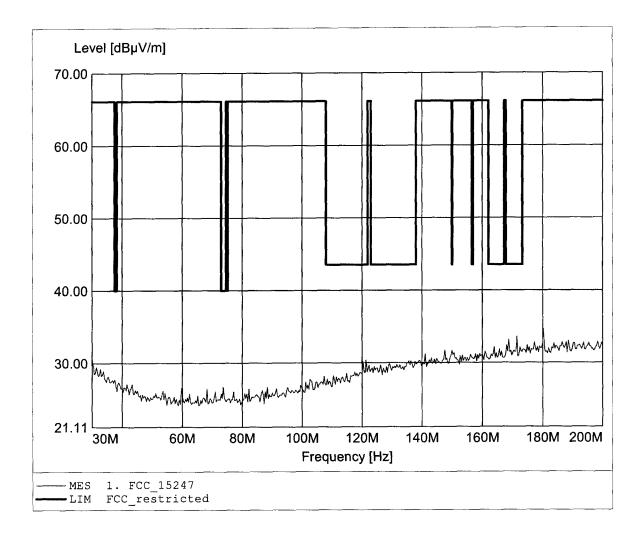
EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz

Test Site / Operation:
Test Conditions:
Test Specification:
Comment 1:
Comment 2:

Thom.: 25°C / Onom.. Include the second of th



#### FCC RULES PART 15, SUBPART C

Approval Holder:

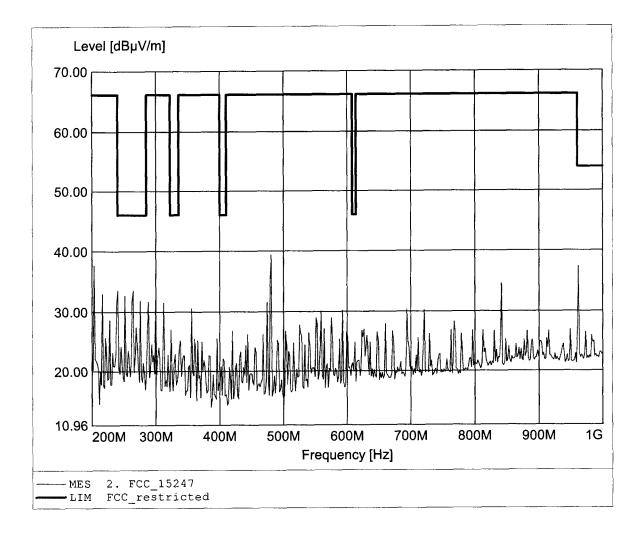
Blaupunkt GmbH

EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz

Test Site / Operations:
Test Conditions:
Test Specification:
Comment 1:
Comment 2:
Thom.: 25°C / Onom.. Include the second of th



### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

EUT:

Hamburg MP 68 Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz

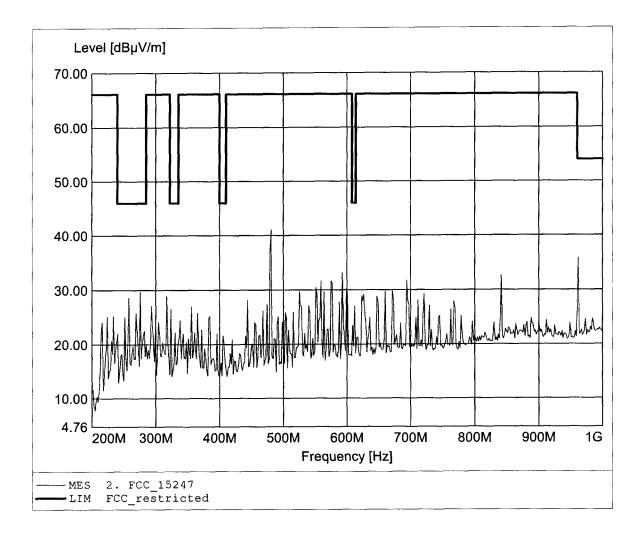
Test Site / Operacol.

Test Conditions: Tnom.: 25 c , according to \$15.247

Test Specification: according to \$15.247

Dist.: 3m, Ant.: HL 223, amplif.

Freq: 480.561MHz, Emax: 41.04dBµV/m, RBW: 100kHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH Hamburg MP 68

EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz

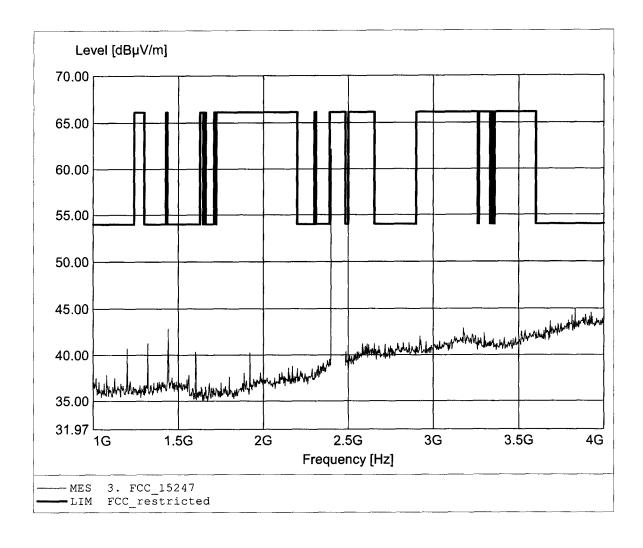
Model.
Test Site / Opel.
Test Conditions:
- Specification:

according to \$15.247, peak detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, amplif. Freq: 2.400GHz, Emax: 62.16dBuV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH Hamburg MP 68

EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz

Test Conditions:

Test Specification:

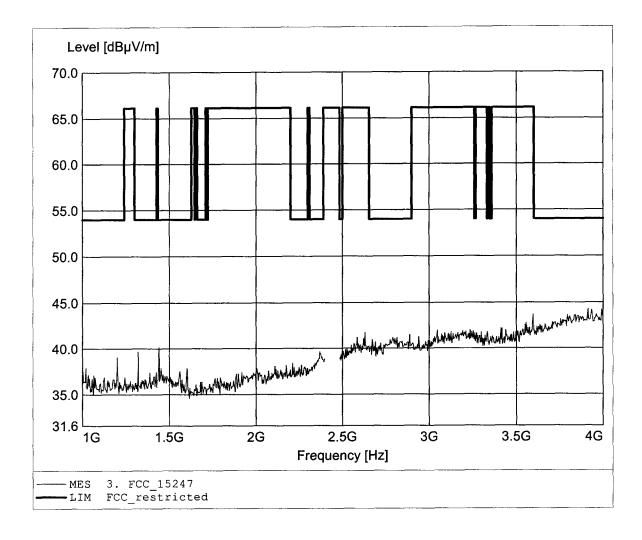
according to \$15.247, peak detector

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, amplif.

Comment 2:

Freq: 3.912GHz, Emax: 44.30dBuV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH Hamburg MP 68

EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz

Test Conditions: Test Specification:

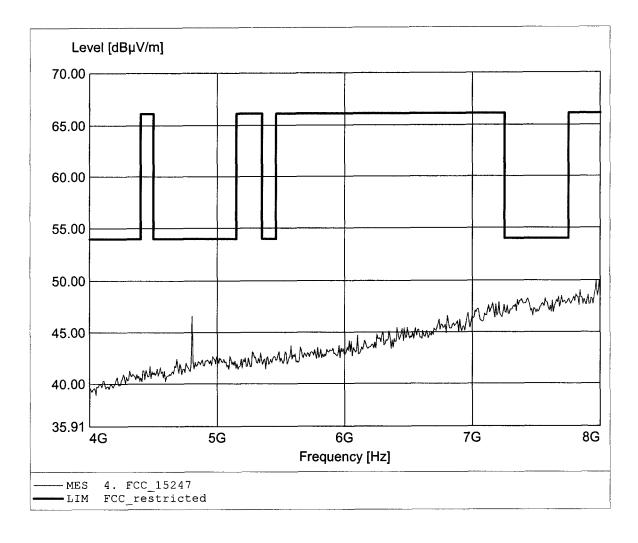
according to \$15.247, peak detector

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.

Comment 2:

Freq: 7.992GHz, Emax: 50.05dBuV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

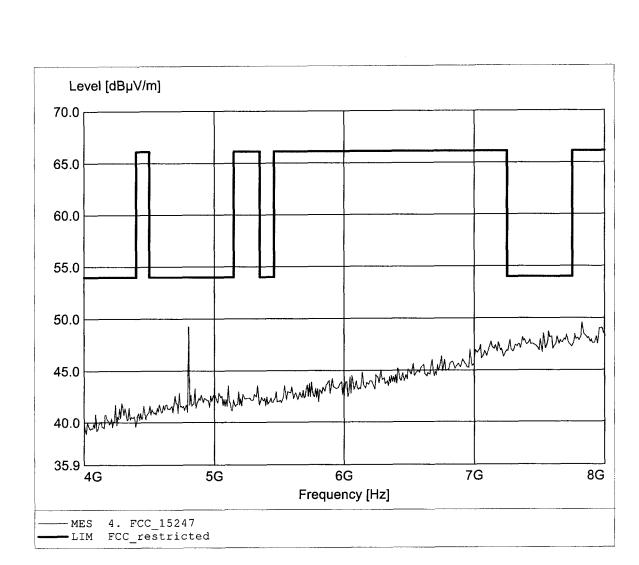
Blaupunkt GmbH Hamburg MP 68

EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz
Test Specification: according to \$15.247, peak detector

Comment 1: Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 7.824GHz, Emax: 49.58dBpV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

EUT:

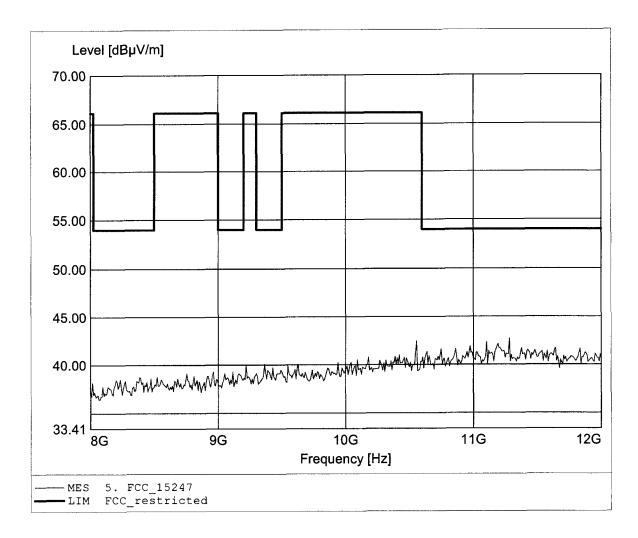
Hamburg MP 68 Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz

Test Specification:

according to \$15.247, peak detector

Comment 1: Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 11.279GHz, Emax: 42.73dBpV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH Hamburg MP 68

EUT:

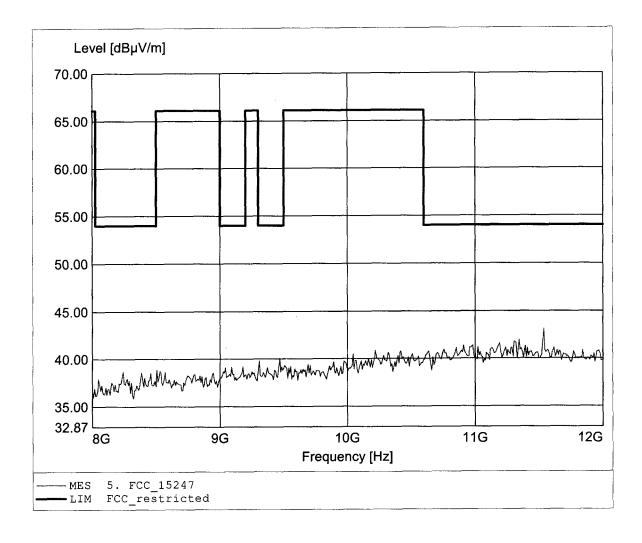
Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz

Test Specification:

according to \$15.247, peak detector

Comment 1: Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 11.535GHz, Emax: 43.14dBµV/m, RBW: 1MHz



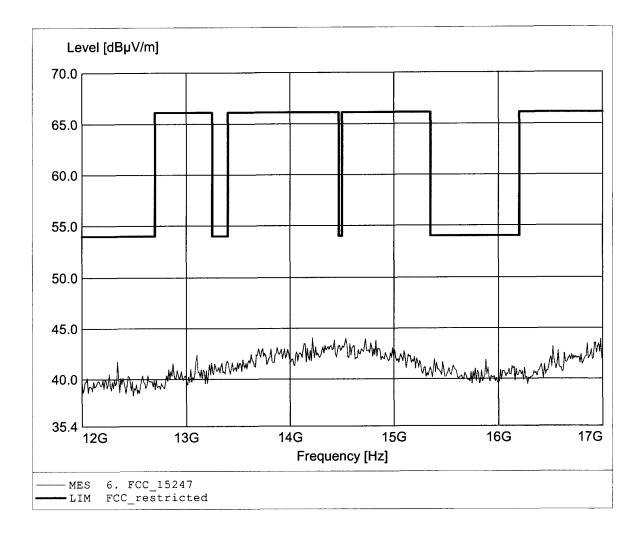
#### FCC RULES PART 15, SUBPART C

Approval Holder: Blaupunkt GmbH Hamburg MP 68 EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz

according to \$15.247, peak detector Test Specification: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Comment 1:

Freq: 14.214GHz, Emax: 44.05dBμV/m, RBW: 1MHz Comment 2:



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

EUT:

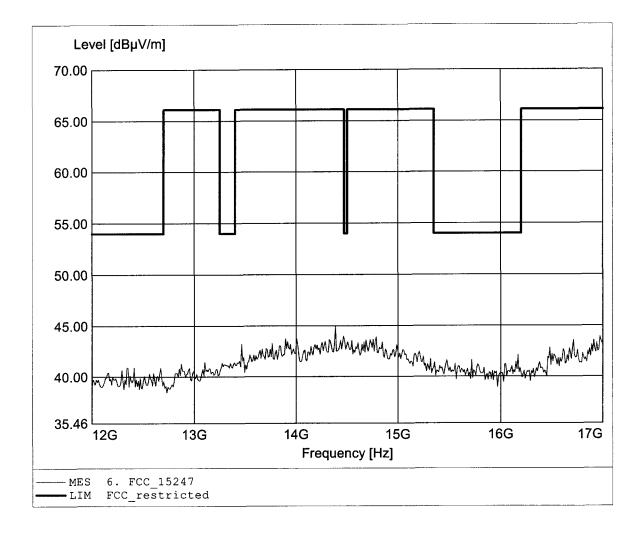
Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Thom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz
Test Specification: according to \$15.247, peak detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 14.385GHz, Emax: 44.99dBpV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

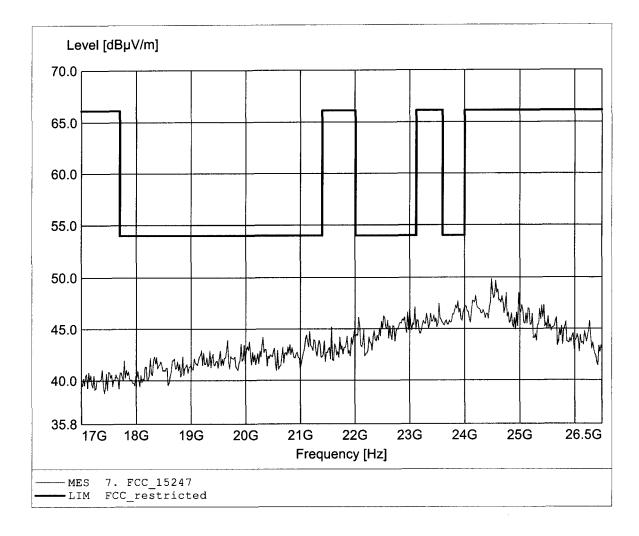
Approval Holder:

Blaupunkt GmbH Hamburg MP 68

EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz

Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 24.482GHz, Emax: 49.83dBpV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

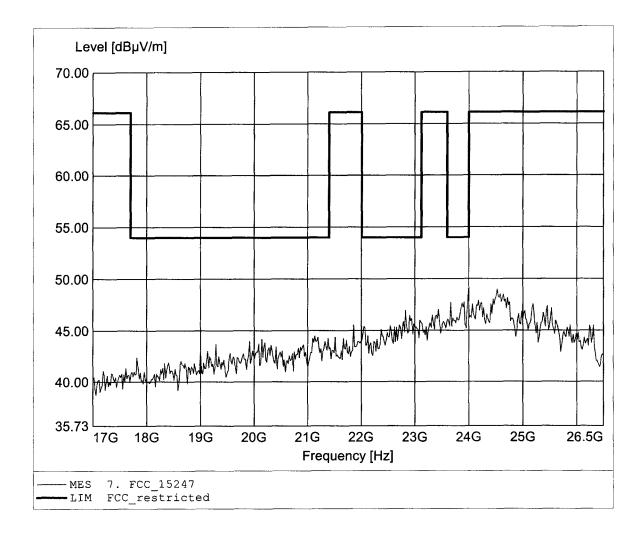
EUT:

Hamburg MP 68 Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2402 MHz

Test Specification: Comment 1:

Comment 2:

according to \$15.247, peak detector Dist.: 3m, Ant.: HL025, amplif. Freq: 24.520GHz, Emax: 49.02dBpV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH Hamburg MP 68

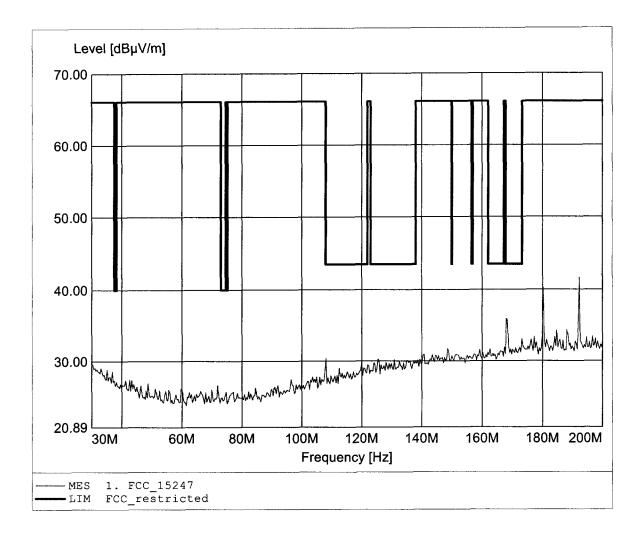
EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Thom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz
Test Specification: according to \$15.247
Comment 1: Dist.: 3m, Ant.: HK 116

Frog. 192 164MHz Fmay: 41 68dBuV/m RBW: 100kHz

Comment 2:

Dist.: 3m, Ant.: нк 110 Freq: 192.164MHz, Emax: 41.68dBµV/m, RBW: 100kHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

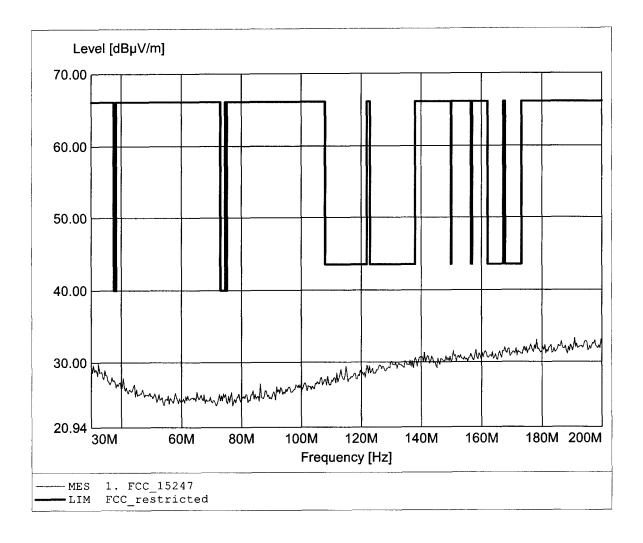
EUT:

Hamburg MP 68 Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

Test Site / Open Test Conditions: Thom.: 25 0 / Open Test Specification: according to \$15.247 Dist.: 3m, Ant.: HK 116

Comment 2:

Dist.: 3m, Ant.: на 110 Freq: 190.802MHz, Emax: 33.33dBpV/m, RBW: 100kHz



#### FCC RULES PART 15, SUBPART C

Approval Holder: EUT:

Blaupunkt GmbH Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

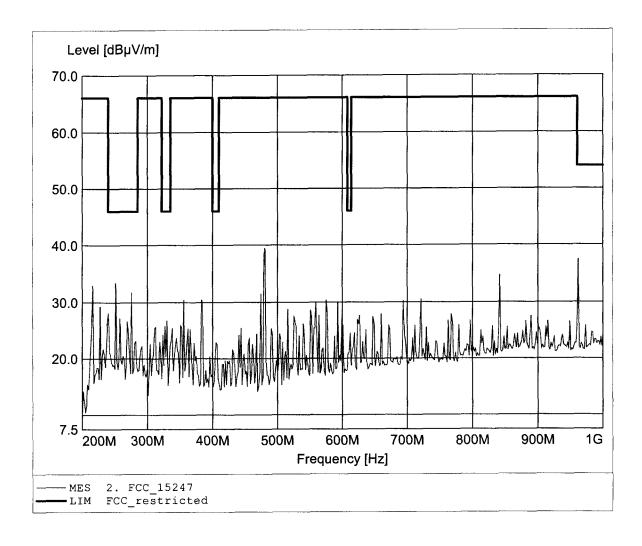
Test Conditions: Test Specification:

according to \$15.247

Comment 1:

Comment 2:

Dist.: 3m, Ant.: HL 223, amplif. Freq: 480.561MHz, Emax: 39.46dBpV/m, RBW: 100kHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

EUT:

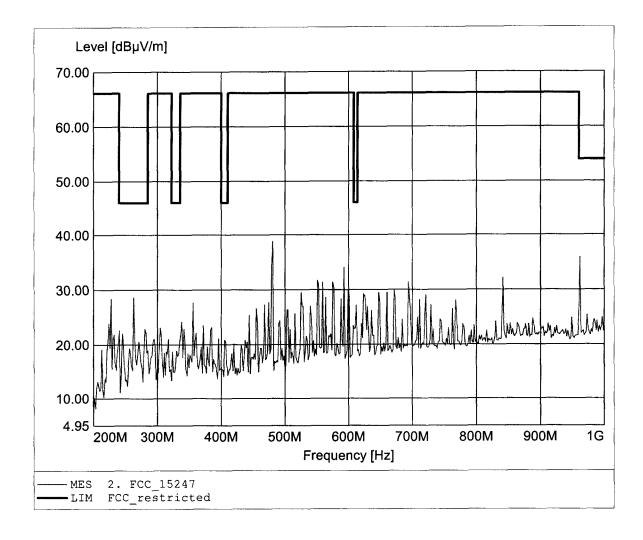
Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

Test Specification: according to \$15.247

Comment 1: Dist.: 3m, Ant.: HL 223, amplif.

Comment 2: Freq: 480.561MHz, Emax: 38.83dBµV/m, RBW: 100kHz



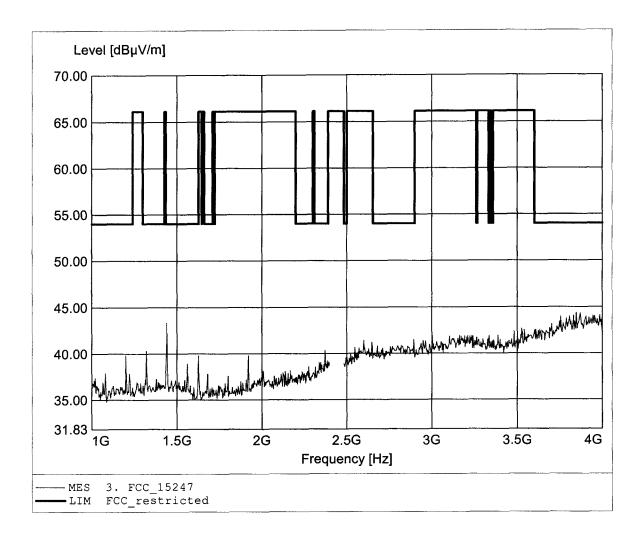
# FCC RULES PART 15, SUBPART C

Approval Holder: Blaupunkt GmbH Hamburg MP 68 EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

Test Specification: according to \$15.247, peak detector Dist.: 3m, Ant.: BBHA9120D, amplif. Comment 1:

Freq: 3.845GHz, Emax: 44.37dBµV/m, RBW: 1MHz Comment 2:



#### FCC RULES PART 15, SUBPART C

Approval Holder:

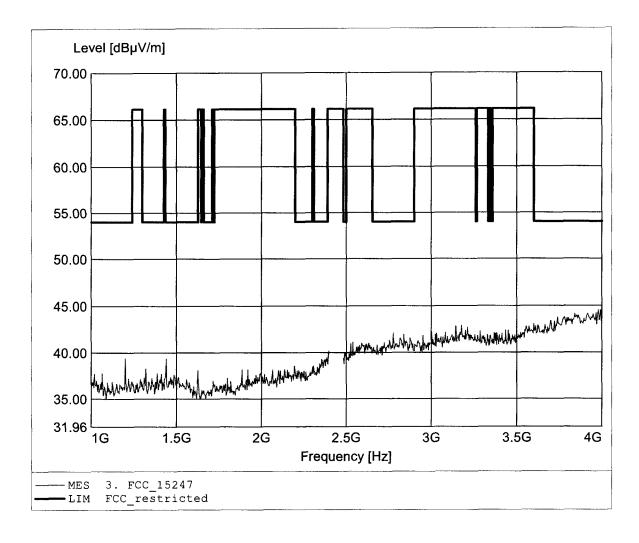
Blaupunkt GmbH

EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

Test Site, operations:
Test Conditions:
Test Specification:
Comment 1:
Comment 2:
Trom.: 25°C / Unom.: 13.5 v bc , 22.4 peak detector
according to \$15.247, peak detector
Dist.: 3m, Ant.: BBHA9120D, amplif.
Freq: 3.979GHz, Emax: 44.55dBµV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH Hamburg MP 68

EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

Test Specification:

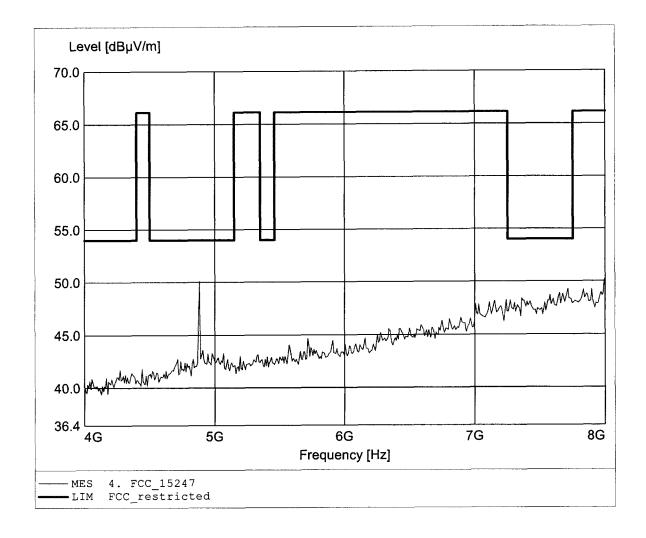
according to \$15.247, peak detector

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.

Comment 2:

Freq: 7.992GHz, Emax: 50.14dBµV/m, RBW: 1MHz



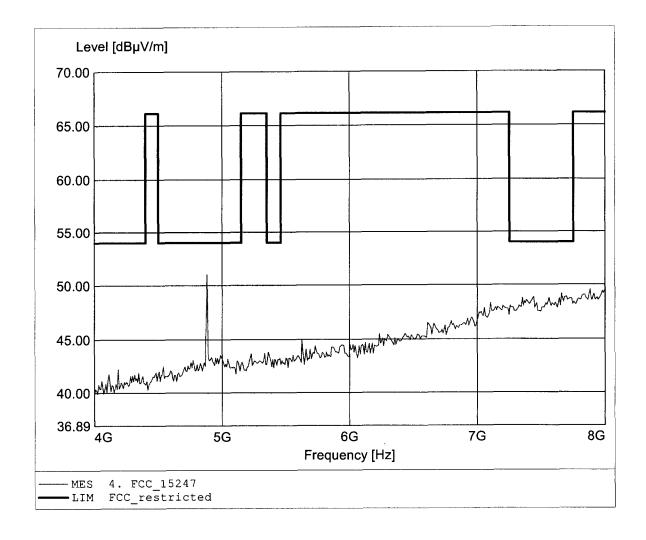
# FCC RULES PART 15, SUBPART C

Blaupunkt GmbH Approval Holder: Hamburg MP 68 EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

Test Specification: according to \$15.247, peak detector Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.

Freq: 4.882GHz, Emax: 51.03dBpV/m, RBW: 1MHz Comment 2:



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

Test Specification:

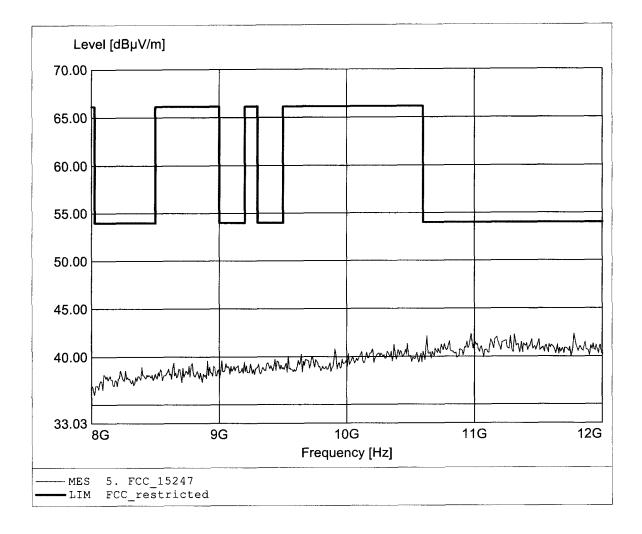
according to \$15.247, peak detector

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.

Comment 2:

Freq: 10.974GHz, Emax: 42.37dBpV/m, RBW: 1MHz



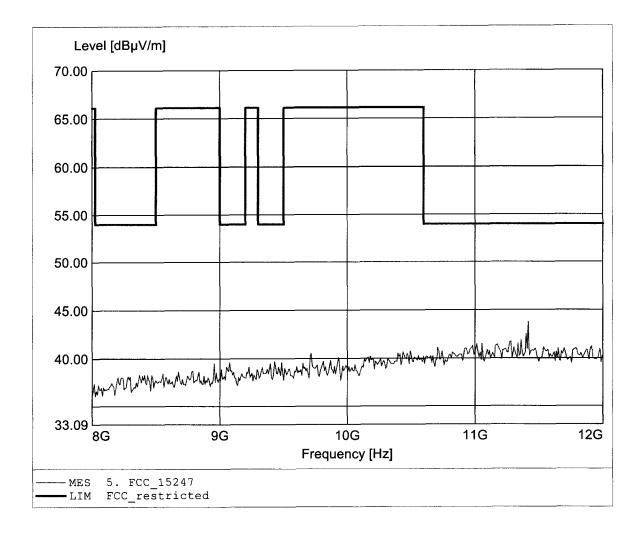
#### FCC RULES PART 15, SUBPART C

Blaupunkt GmbH Approval Holder: Hamburg MP 68 EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz
Test Specification: according to \$15.247, peak detector

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 11.415GHz, Emax: 43.79dBµV/m, RBW: 1MHz Comment 2:



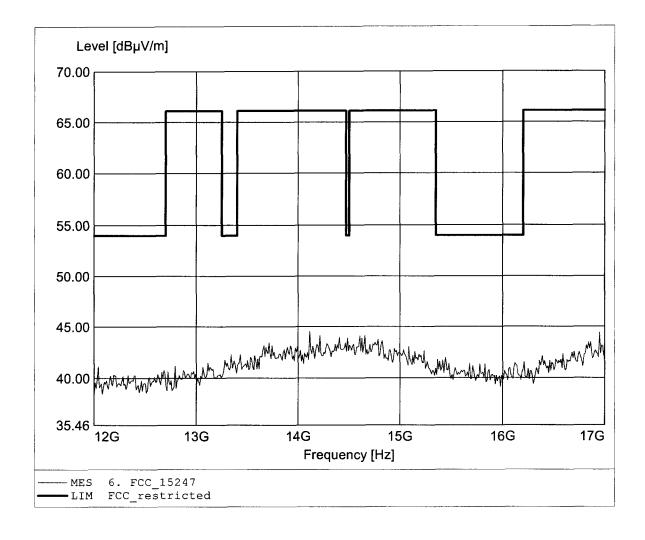
#### FCC RULES PART 15, SUBPART C

Approval Holder: Blaupunkt GmbH Hamburg MP 68 EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

according to \$15.247, peak detector Test Specification: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Comment 1:

Freq: 14.114GHz, Emax: 44.55dBuV/m, RBW: 1MHz Comment 2:



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH Hamburg MP 68

EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

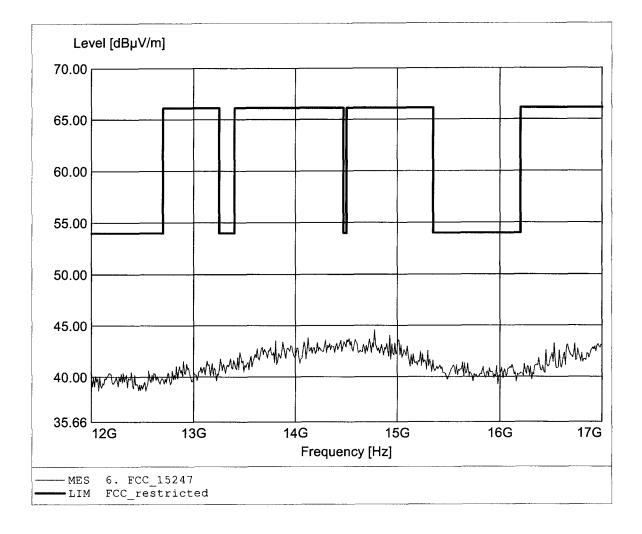
Test Specification:

according to \$15.247, peak detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 14.776GHz, Emax: 44.59dBµV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

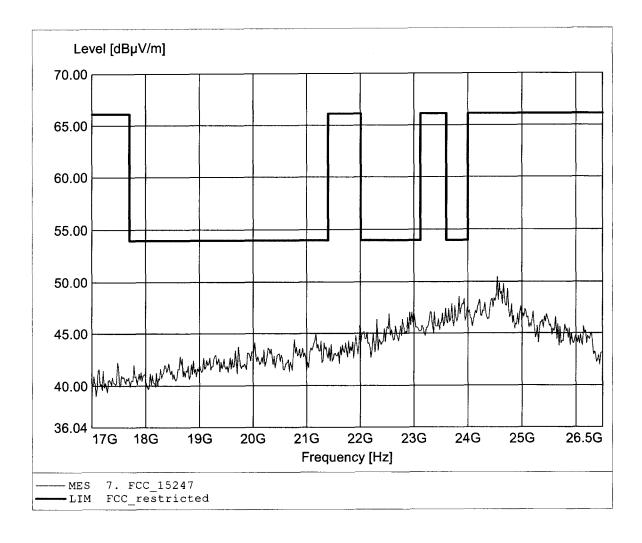
Blaupunkt GmbH

EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

Test Site / Operation:
Test Conditions:
Thom.: 25°C / Unom.: 13.5 v DC / Land Conditions:
Test Specification:
Comment 1:
Comment 1:
Comment 2:
Dist.: 3m, Ant.: HL025, amplif.
Freq: 24.539GHz, Emax: 50.48dBµV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

EUT:

Hamburg MP 68

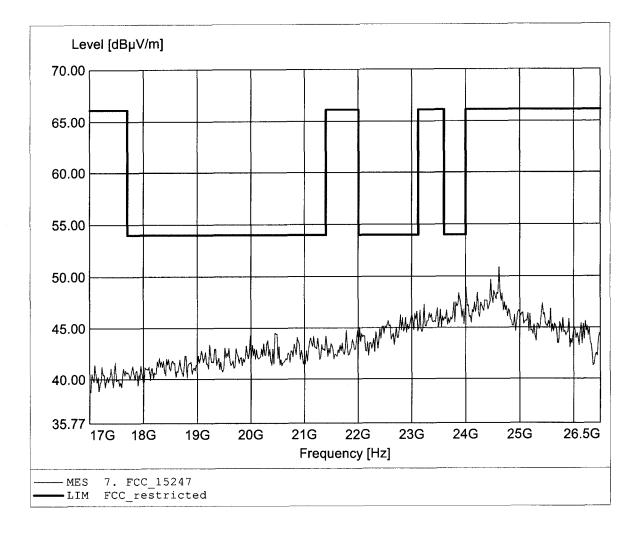
Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

Test Specification:

Comment 1:

Comment 2:

according to §15.247, peak detector Dist.: 3m, Ant.: HL025, amplif. Freq: 24.615GHz, Emax: 50.87dBpV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder: Blaupunkt GmbH Hamburg MP 68 EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB

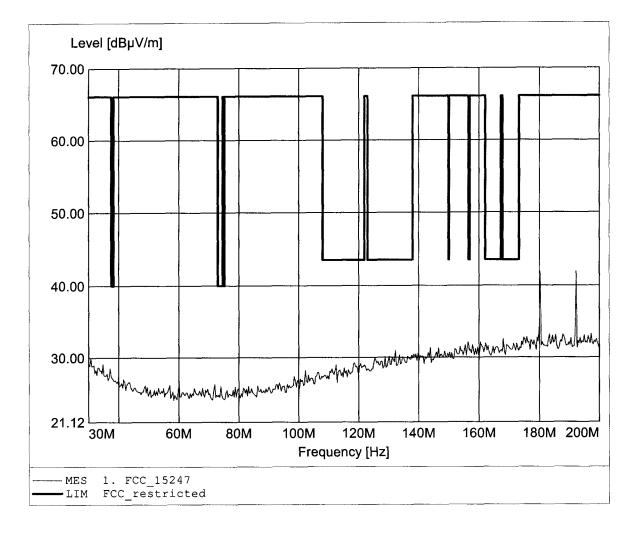
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik

Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz

Test Specification: according to \$15.247

Comment 1: Dist.: 3m, Ant.: HK 116

Comment 2: Freq: 192.164MHz, Emax: 41.94dBµV/m, RBW: 100kHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

EUT:

Hamburg MP 68

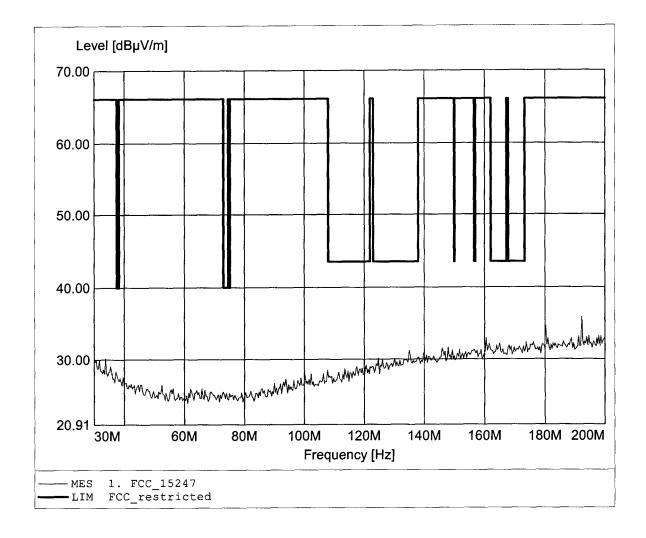
Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz

Test Site / Operations:
Test Conditions:
Test Specification:

according to \$15.247

Comment 1: Comment 2:

Dist.: 3m, Ant.: HK 116 Freq: 192.164MHz, Emax: 35.89dBµV/m, RBW: 100kHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH Hamburg MP 68

EUT:

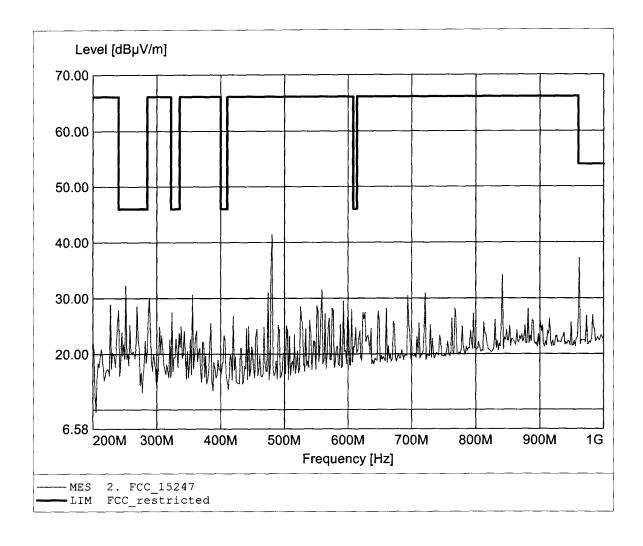
Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz Test Site / Operaco..

Test Conditions: Tnom.: 25°C / Onom..

Test Specification: according to \$15.247

Comment 1: Dist.: 3m, Ant.: HL 223, amplif.

Comment 2: Freq: 480.561MHz, Emax: 41.43dBµV/m, RBW: 100kHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

EUT:

Hamburg MP 68

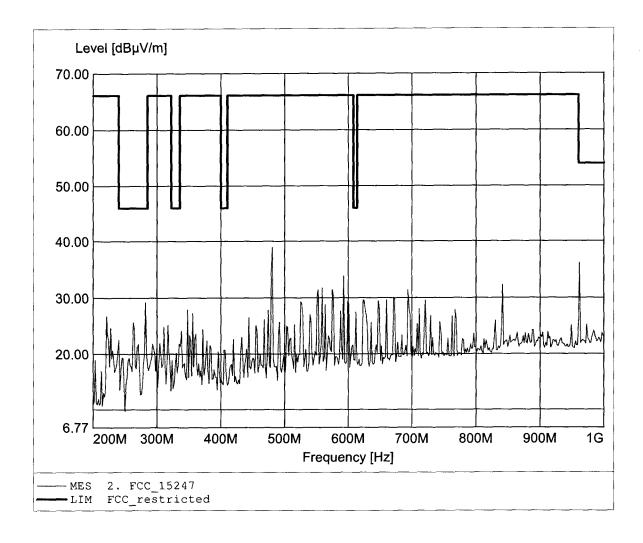
Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz

Test Site / Operator.
Test Conditions: Tnom.: 25°C / Onom..

Test Specification: according to \$15.247

Comment 1: Dist.: 3m, Ant.: HL 223, amplif.

Comment 2: Freq: 480.561MHz, Emax: 38.92dBµV/m, RBW: 100kHz



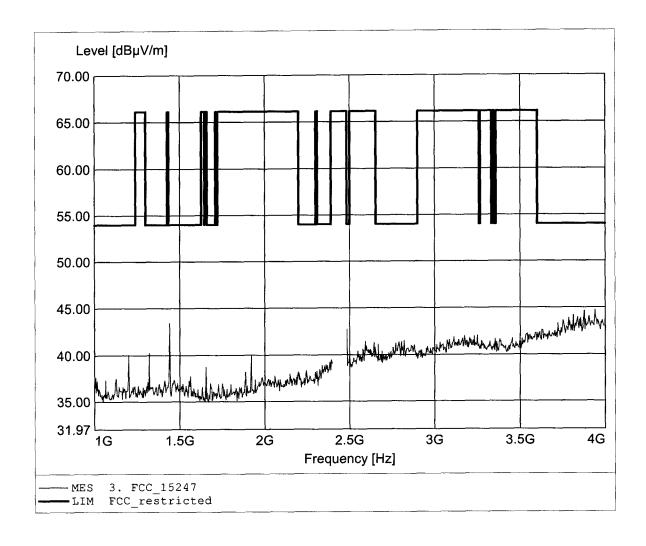
#### FCC RULES PART 15, SUBPART C

Approval Holder: Blaupunkt GmbH Hamburg MP 68 EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz

Test Specification: according to \$15.247, peak detector Comment 1:

Dist.: 3m, Ant.: BBHA9120D, amplif. Freq: 3.939GHz, Emax: 44.75dBµV/m, RBW: 1MHz Comment 2:



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz

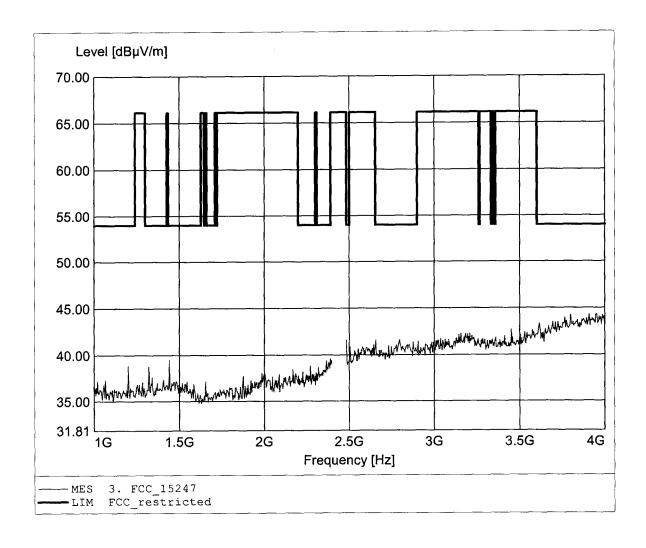
Test Specification:

according to \$15.247, peak detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, amplif. Freq: 3.951GHz, Emax: 44.35dBµV/m, RBW: 1MHz



# FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz

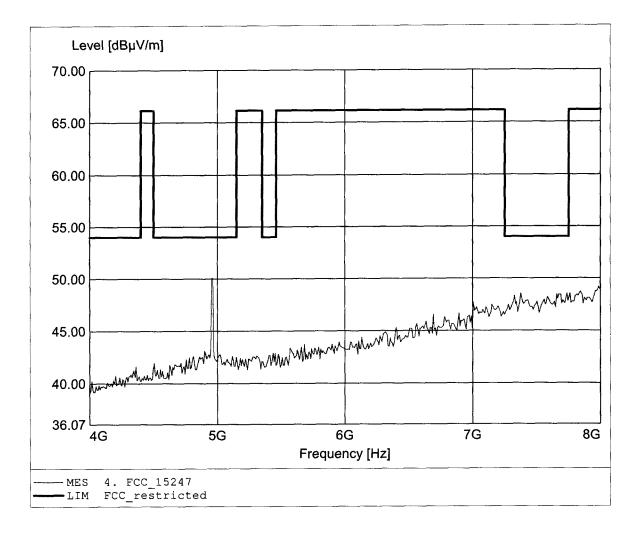
Test Specification: according to \$15.247, peak detector

Comment 1:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.

Comment 2:

Freq: 4.962GHz, Emax: 50.08dBpV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

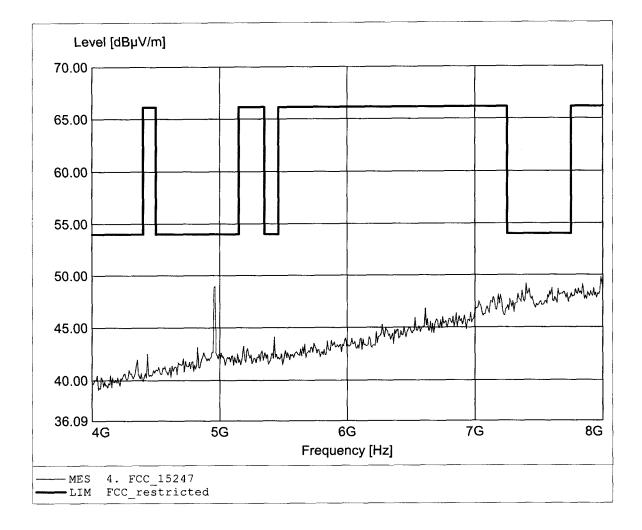
EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz
Test Specification: according to \$15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, amp1...... Freq: 7.984GHz, Emax: 49.80dBpV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz

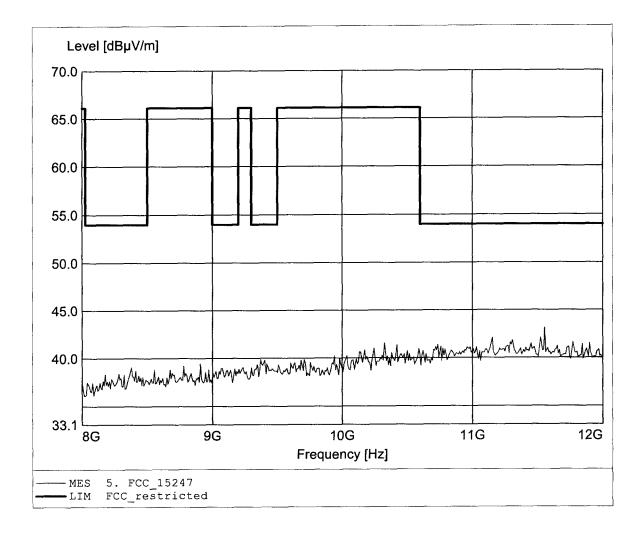
Test Specification:

according to \$15.247, peak detector

Comment 1:

Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 11.551GHz, Emax: 43.11dBµV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

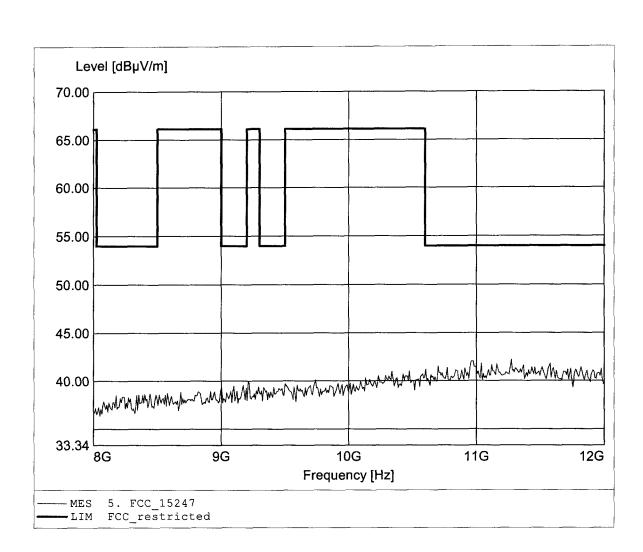
EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz
Test Specification: according to \$15.247, peak detector

Comment 1: Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 11.271GHz, Emax: 42.19dBpV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH Hamburg MP 68

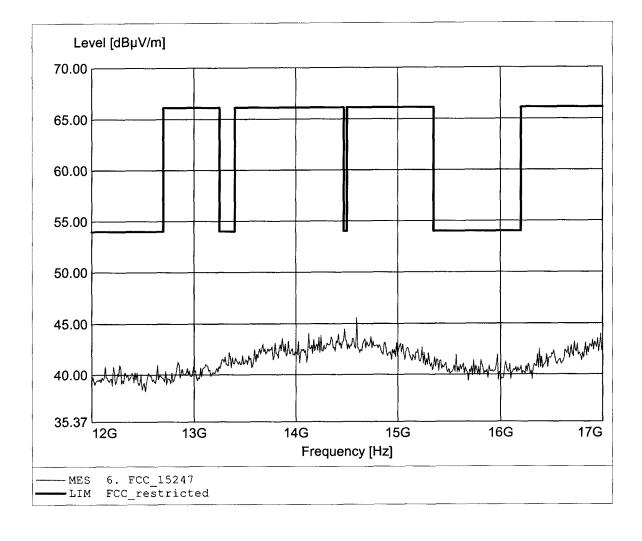
EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz
Test Specification: according to \$15.247, peak detector

Comment 1:

Comment 2:

according to \$15.247, peak detector Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Freq: 14.595GHz, Emax: 45.60dBpV/m, RBW: 1MHz



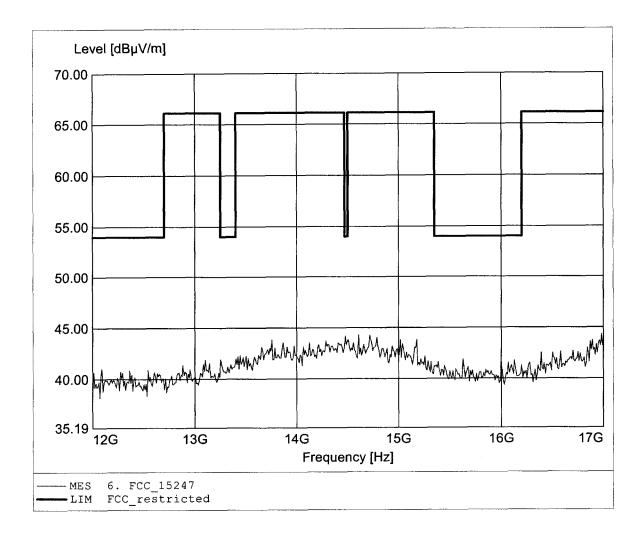
#### FCC RULES PART 15, SUBPART C

Approval Holder: Blaupunkt GmbH Hamburg MP 68 EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz

Test Specification: according to \$15.247, peak detector Dist.: 3m, Ant.: BBHA9120D, ampl.+HP. Comment 1:

Dist.: 3m, Ant.: BBNA3120D, ampt. ...... Freq: 16.980GHz, Emax: 44.32dBpV/m, RBW: 1MHz Comment 2:



#### FCC RULES PART 15, SUBPART C

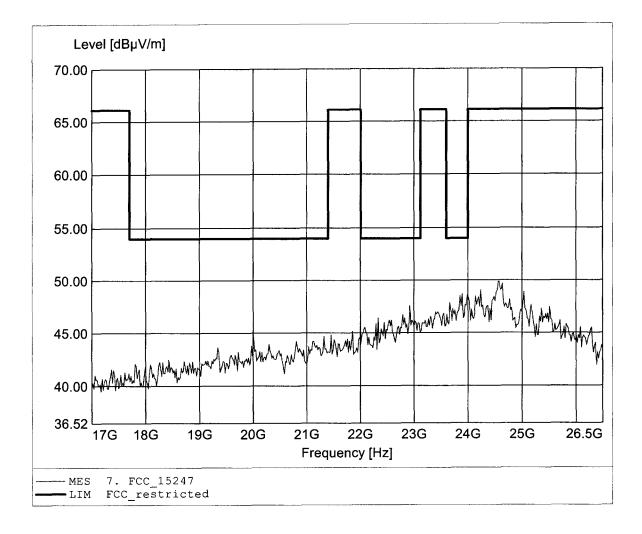
Approval Holder:

Blaupunkt GmbH Hamburg MP 68

EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz

Test Site / Operation:
Test Conditions:
Thom.: 25°C / Unom.: 13.5 v DC / Land Conditions:
Test Specification:
Comment 1:
Comment 1:
Comment 2:
Dist.: 3m, Ant.: HL025, amplif.
Freq: 24.577GHz, Emax: 49.88dBpV/m, RBW: 1MHz



#### FCC RULES PART 15, SUBPART C

Approval Holder:

Blaupunkt GmbH

EUT:

Hamburg MP 68

EUT:

Model:

7648 011 310 / Tuner 89.0 MHz / MP3 over USB

Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik

Test Conditions:

Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2480 MHz

Test Specification:

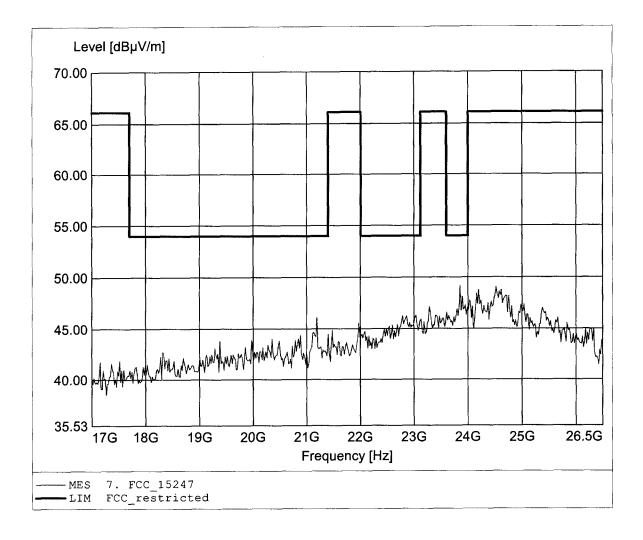
according to \$15.247, peak detector

Comment 1:

Dist.: 3m, Ant.: HL025, amplif.

Comment 2:

Freq: 23.854GHz, Emax: 49.20dBpV/m, RBW: 1MHz



# Appendix H

Band-edge compliance



**EUT** 

Hamburg MP 68

Model

7648 011 310

Approval Holder

Blaupunkt GmbH

Temperature / Voltage Tnom.: 23°C /

Tnom.: 23°C / Unom.: 13.5 V DC

Test Site / Operator

Eurofins ETS Product Service AG / Mr. Handrik

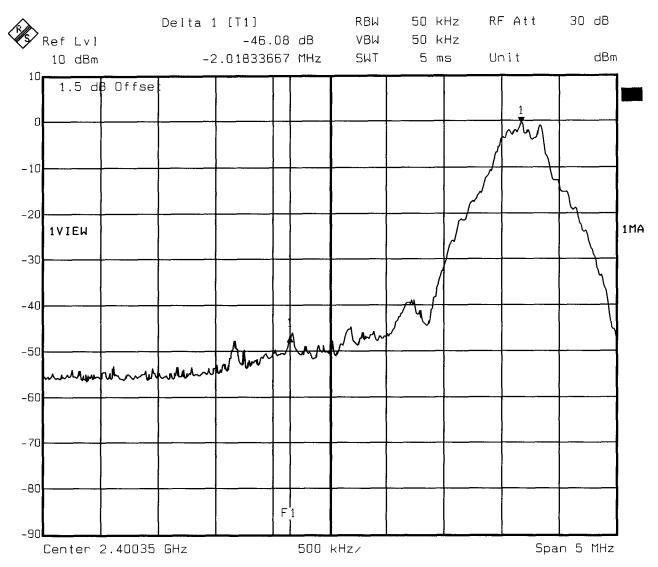
**Test Specification** 

FCC part 15 section 247(c)

Comment 1 Comment 2 Band-edge compliance Channel.: 0 / 2402 MHz

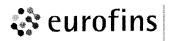
Comment 2

Single frequency mode



Date:

30.JAN.2008 10:05:41

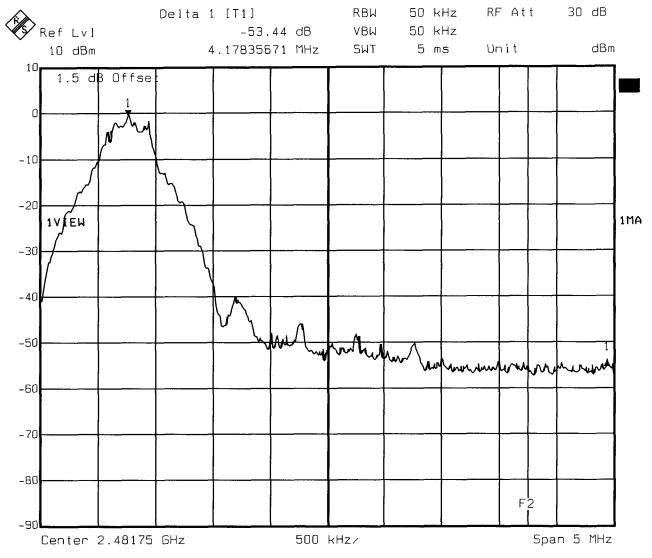


EUT Hamburg MP 68 Model 7648 011 310 Approval Holder Blaupunkt GmbH

Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC

Test Site / Operator Eurofins ETS Product Service AG / Mr. Handrik

Test Specification FCC part 15 section 247(c)
Comment 1 Band-edge compliance
Comment 2 Channel.: 78 / 2480 MHz
Comment 3 Single frequency mode



Date: 30.JAN.2008 10:08:12



**EUT** 

Hamburg MP 68

Model

7648 011 310

Approval Holder

Blaupunkt GmbH

Temperature / Voltage Tnom.: 23°C /

Глот.: 23°С / Unom.: 13.5 V DC

Test Site / Operator

Eurofins ETS Product Service AG / Mr. Handrik

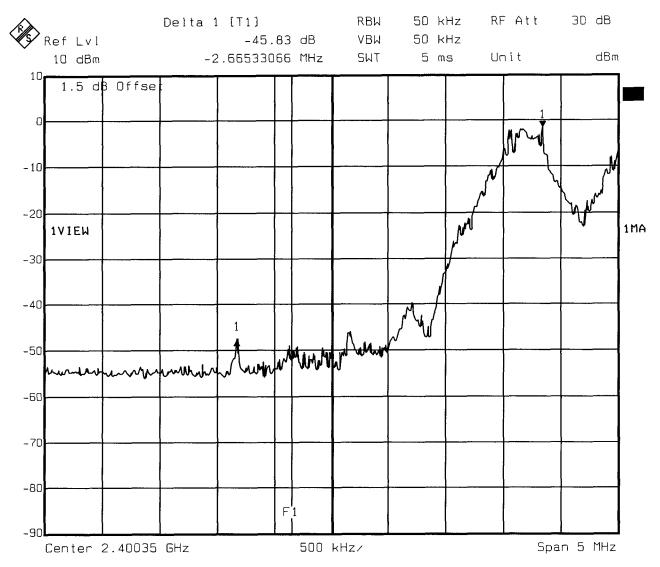
**Test Specification** 

FCC part 15 section 247(c)

Comment 1 Comment 2 Band-edge compliance Channel.: 0 / 2402 MHz

Comment 3

Hopping mode



Date:

30.JAN.2008 10:13:27



**EUT** 

Hamburg MP 68

Model

7648 011 310

Approval Holder

Blaupunkt GmbH

Test Site / Operator

Temperature / Voltage Tnom.: 23°C / Unom.: 13.5 V DC

Test Specification

Eurofins ETS Product Service AG / Mr. Handrik FCC part 15 section 247(c)

Comment 1

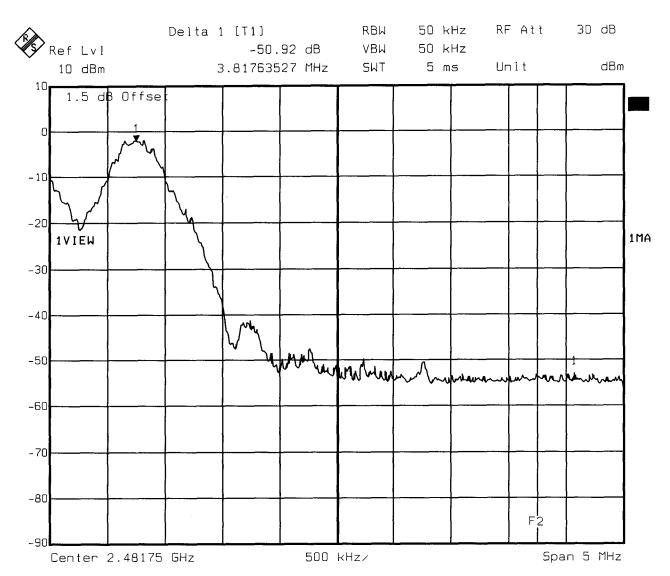
Band-edge compliance

Comment 2

Channel.: 78 / 2480 MHz

Comment 3

Hopping mode



Date:

30.JAN.2008 10:26:01



# Appendix I

AC power line conducted emissions

# **Appendix J**

Receiver radiated emissions

# Standards Industry Canada, RSS-GEN

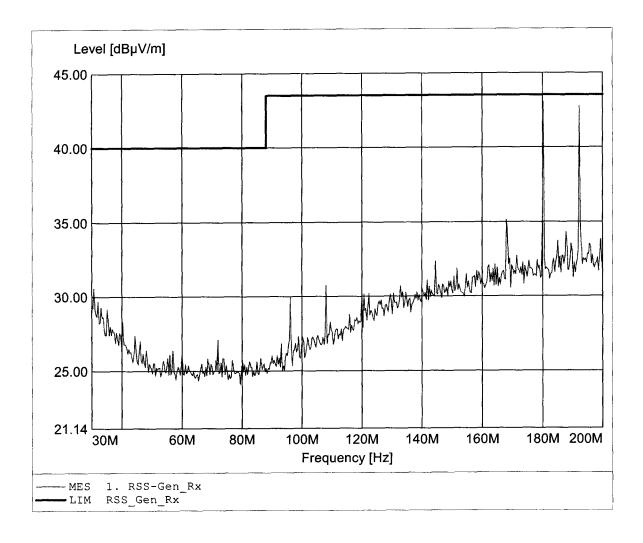
Approval Holder:

Blaupunkt GmbH

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Thom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m. Apr. HK 116



Dist.: Эм, Ant.: нк 110 Freq:180.240MHz Emax:43.07dBµV/m RBW: 100 kHz



# Standards Industry Canada, RSS-GEN

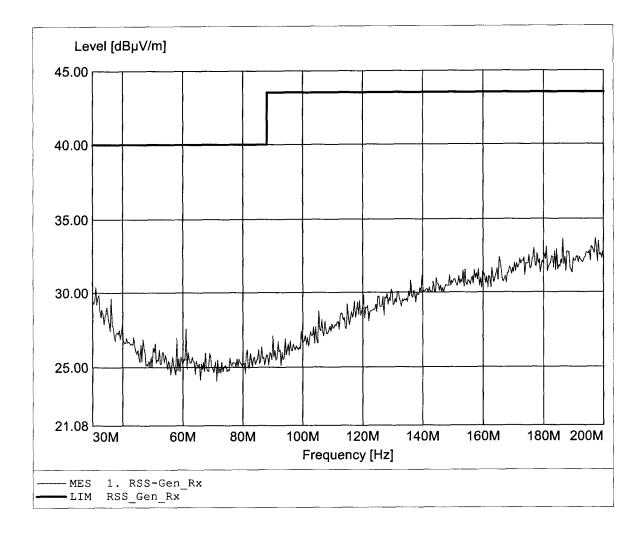
Approval Holder:

Blaupunkt GmbH

EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:197.275MHz Emax:33.69dBµV/m RBW: 100 kHz



# Standards Industry Canada, RSS-GEN

Approval Holder:

Blaupunkt GmbH Hamburg MP 68

EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

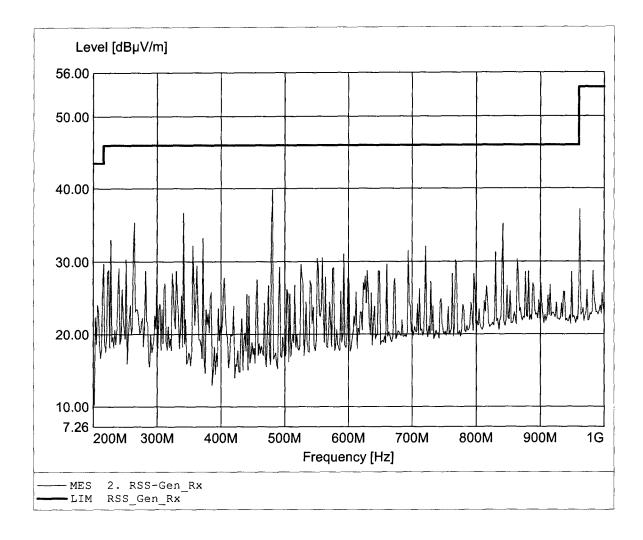
Test Site / Operacol.

Test Conditions: Thom.: 25 c ,

Test Specification: according to RSS-Gen Issue 1

Comment 1: Dist.: 3m, Ant.: HL 223, ampl.

Freq:480.561MHz Emax:39.84dBµV/m RBW: 100 kHz



# Standards Industry Canada, RSS-GEN

Approval Holder:

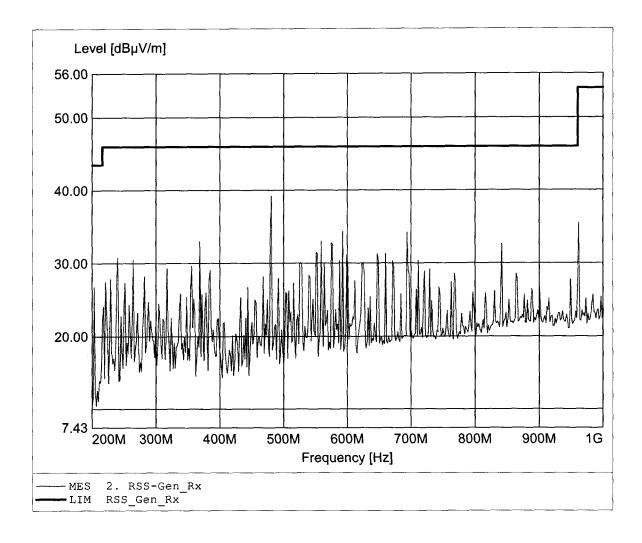
Blaupunkt GmbH

EUT:

Hamburg MP 68

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

Test Site / Operator.
Test Conditions: Tnom.: 25°C / Unom.: 10.0 .
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq:480.561MHz Emax:39.20dBµV/m RBW: 100 kHz



# Standards Industry Canada, RSS-GEN

Approval Holder:

Blaupunkt GmbH

EUT:

Hamburg MP 68

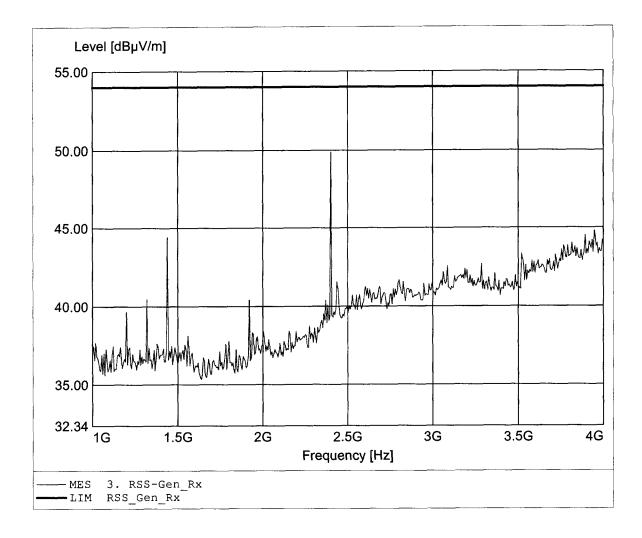
Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

Test Specification:

according to RSS-Gen Issue 1

Comment 1: Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl. Freq:2.401GHz Emax:49.90dBpV/m RBW: 1 MHz



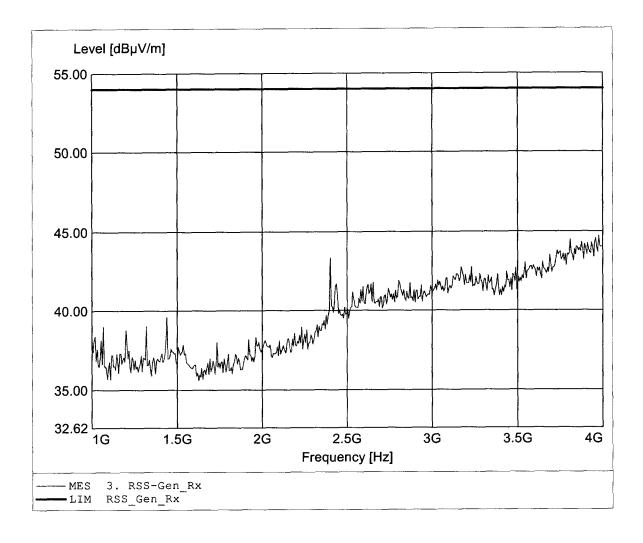
# Standards Industry Canada, RSS-GEN

Blaupunkt GmbH Approval Holder: Hamburg MP 68 EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

according to RSS-Gen Issue 1 Test Specification: Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.

Freq:3.976GHz Emax:44.73dBμV/m RBW: 1 MHz Comment 2:



# Standards Industry Canada, RSS-GEN

Blaupunkt GmbH Approval Holder: Hamburg MP 68 EUT:

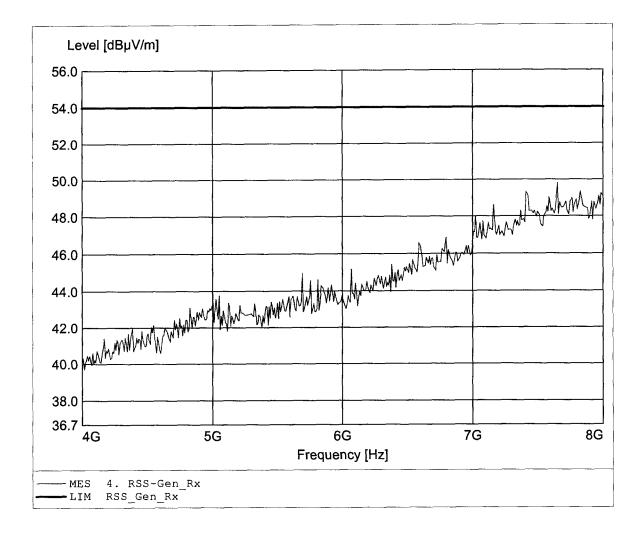
Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

Test Conditions:

according to RSS-Gen Issue 1 Test Specification:

Dist.: 3m, Ant.: BBHA9120D, ampl. Comment 1:

Freq:7.647GHz Emax:49.82dBµV/m RBW: 1 MHz Comment 2:



# Standards Industry Canada, RSS-GEN

Approval Holder:

Blaupunkt GmbH Hamburg MP 68

EUT:

Model: 7648 011 310 / Tuner 89.0 MHz / MP3 over USB
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Handrik
Test Conditions: Tnom.: 25°C / Unom.: 13.5 V DC / Bluetooth = > 2441 MHz

Test Specification:

according to RSS-Gen Issue 1

Comment 1: Comment 2:

Dist.: 3m, Ant.: BBHA9120D, ampl. Freq:7.984GHz Emax:50.60dBpV/m RBW: 1 MHz

