

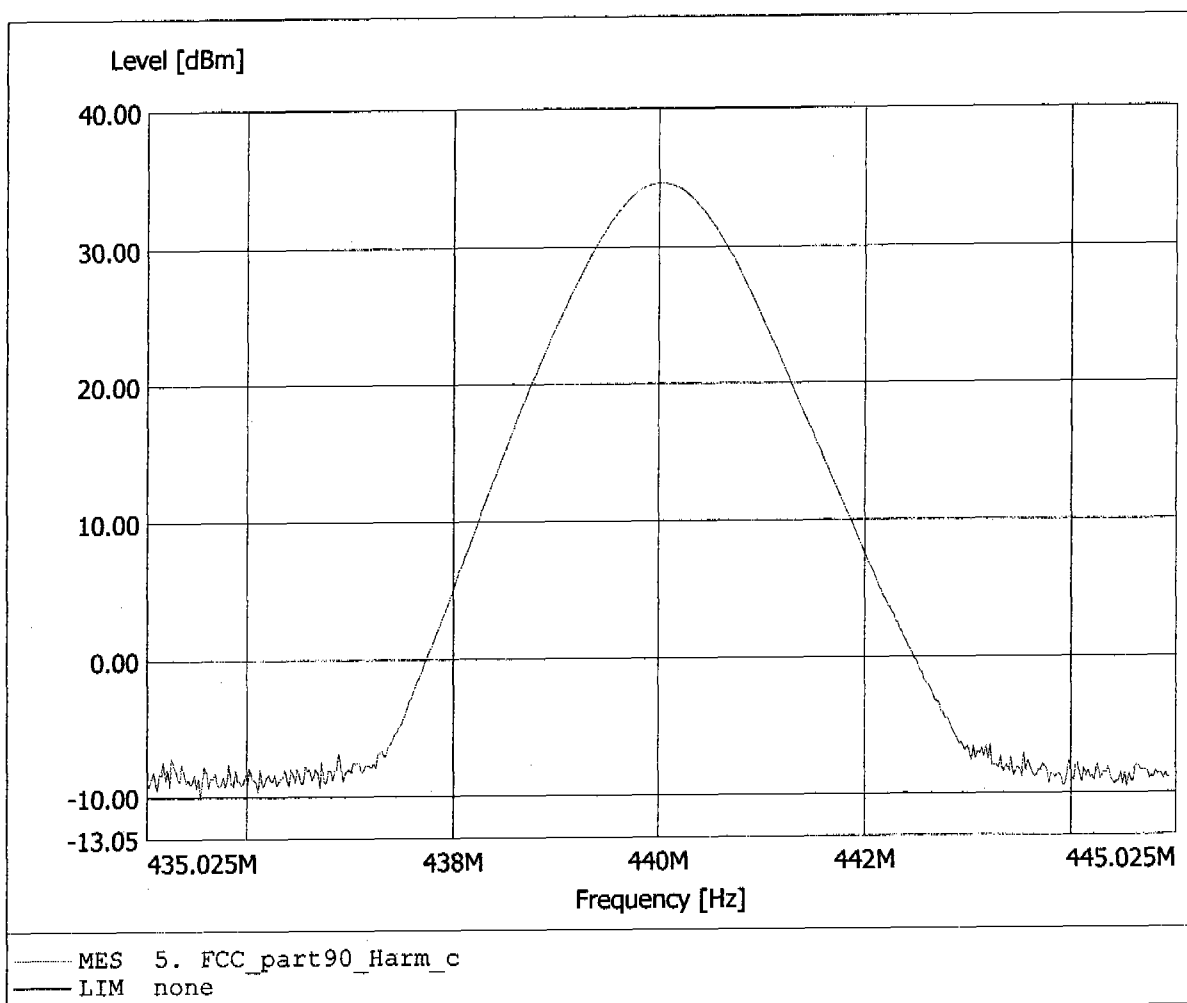


Appendix B

Output Power conducted

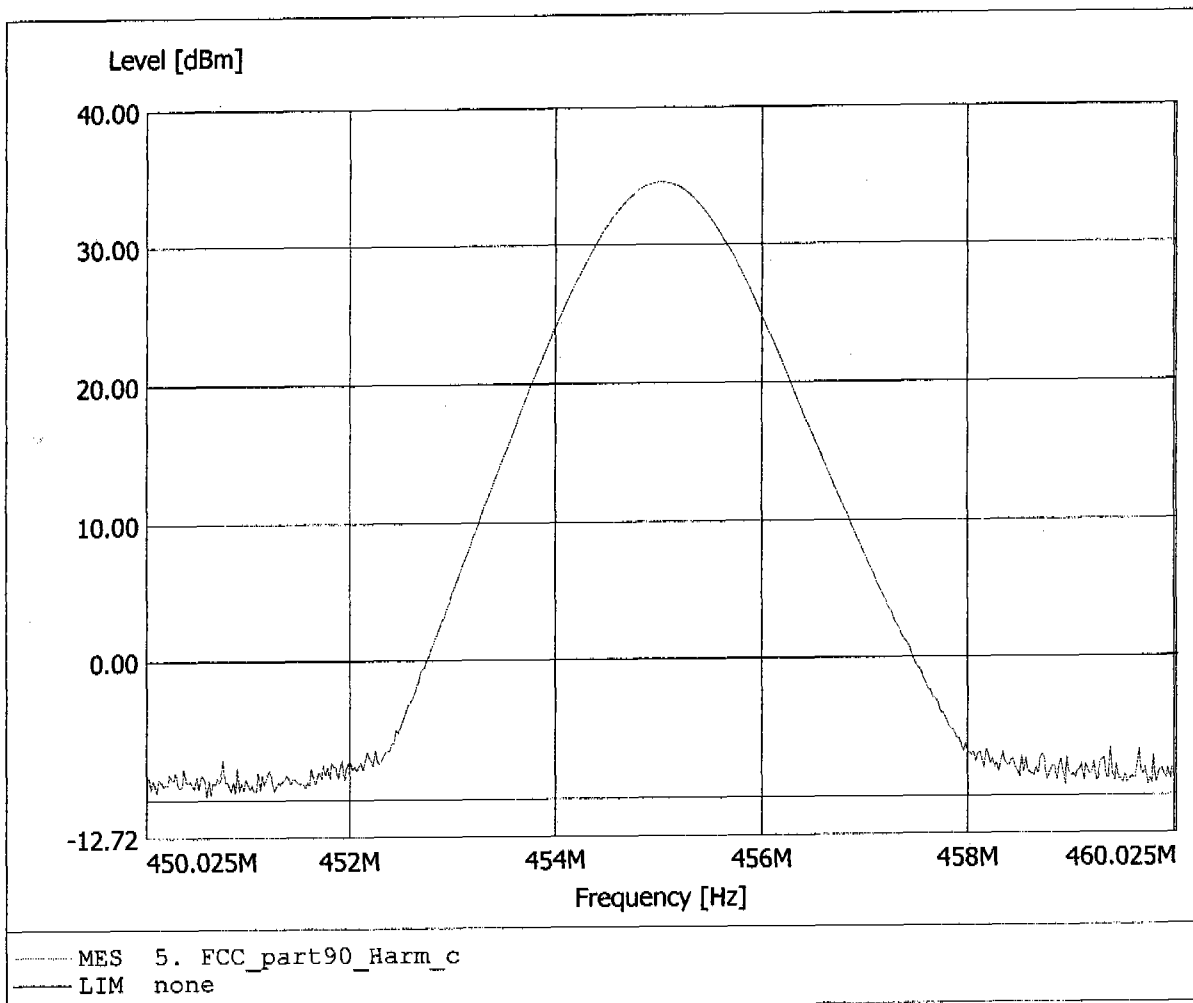
Output power conducted
FCC RULES PART 90

EUT: FM Handheld Transceiver / 440.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:440.035MHz Pmax:34.64dBm RBW: 1MHz



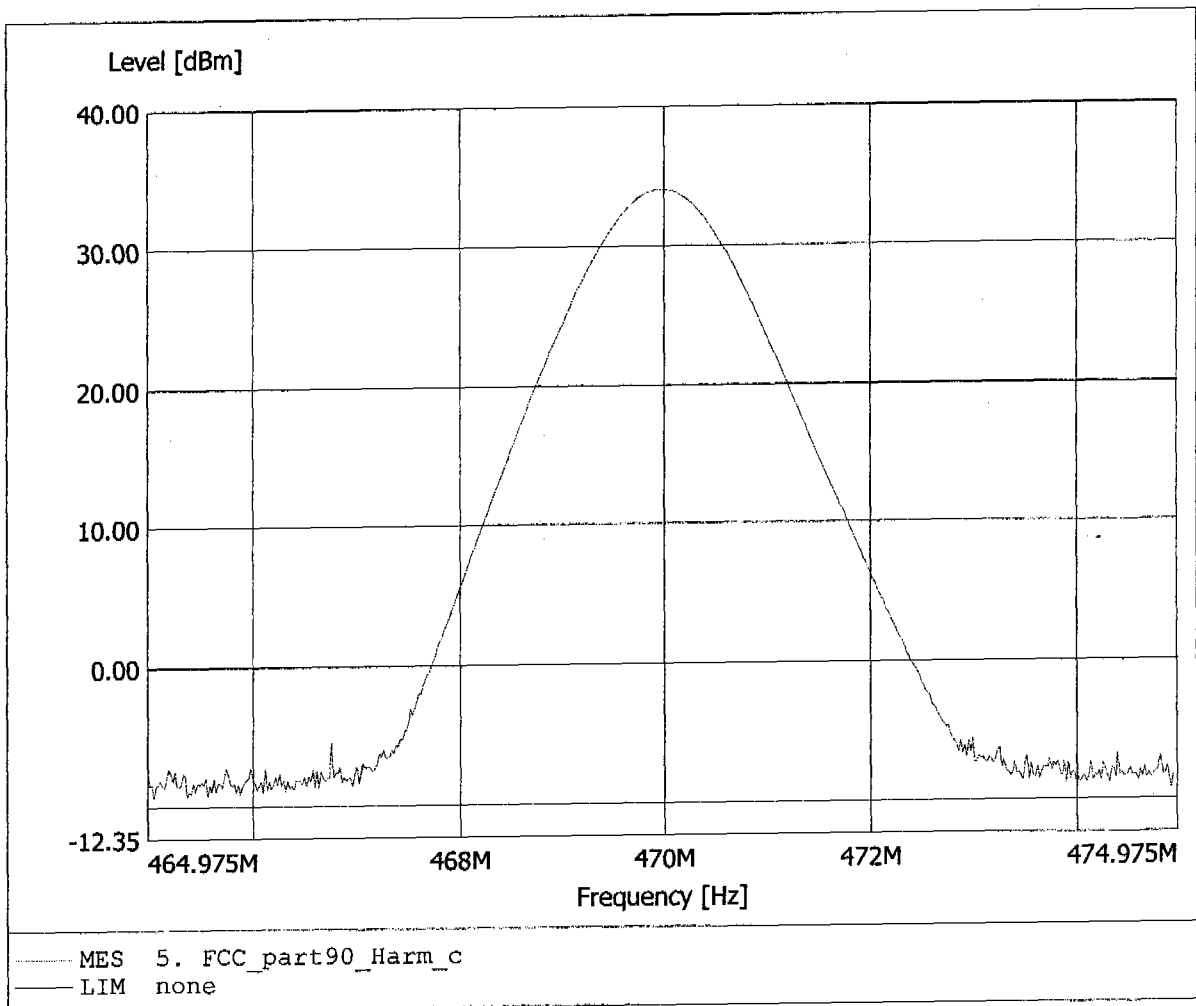
Output power conducted
FCC RULES PART 90

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:455.035MHz Pmax:34.54dBm RBW: 1MHz



Output power conducted
FCC RULES PART 90

EUT: FM Handheld Transceiver / 469.975 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:469.985MHz Pmax:34.01dBm RBW: 1MHz



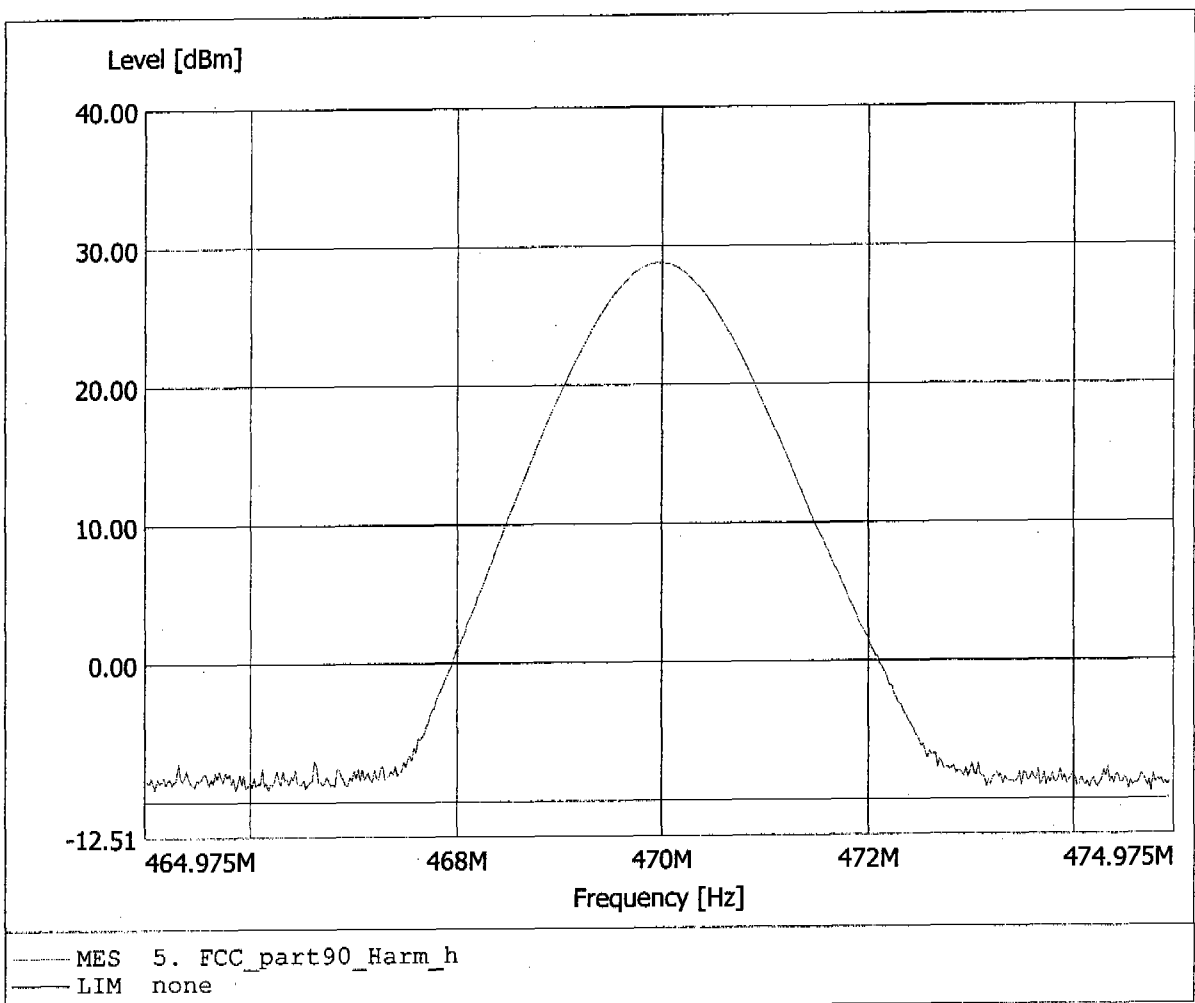


Appendix C

Output Power radiated

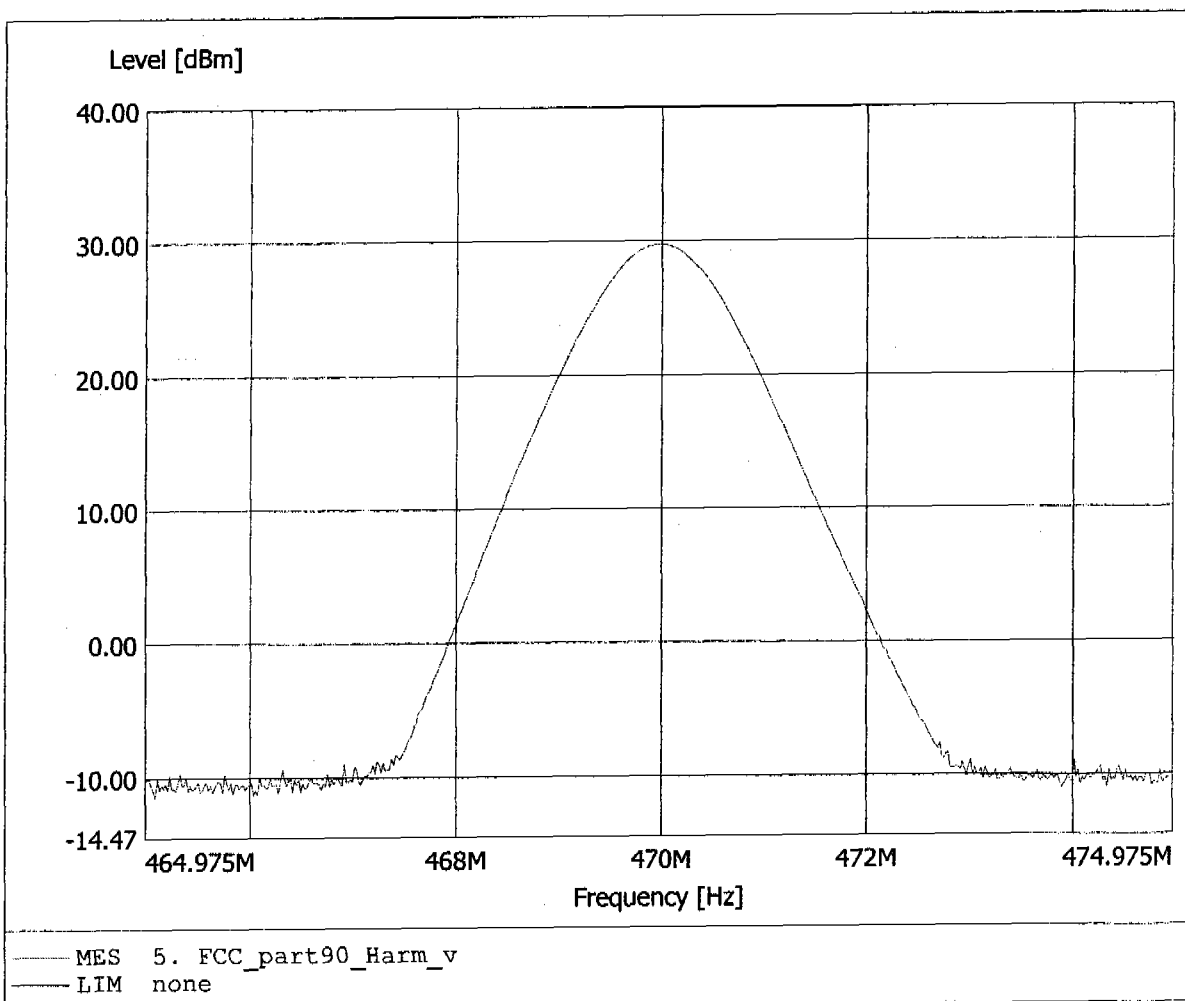
**Radiated power under normal conditions
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 469.975 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223,
Comment 2: Freq:470.005MHz Pmax:28.79dBm RBW: 1 MHz



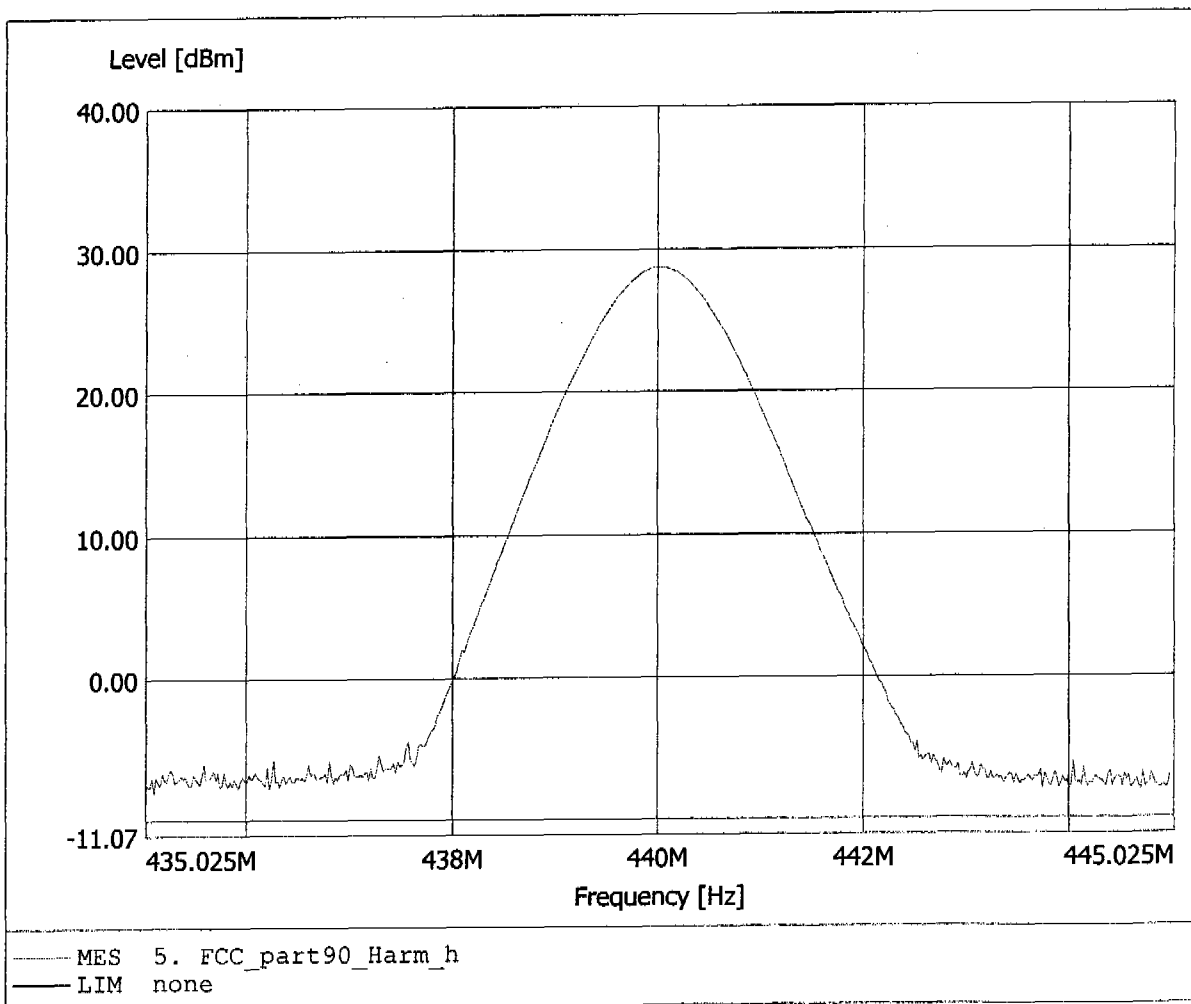
**Radiated power under normal conditions
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 469.975 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223,
Comment 2: Freq:470.005MHz Pmax:29.73dBm RBW: 1 MHz



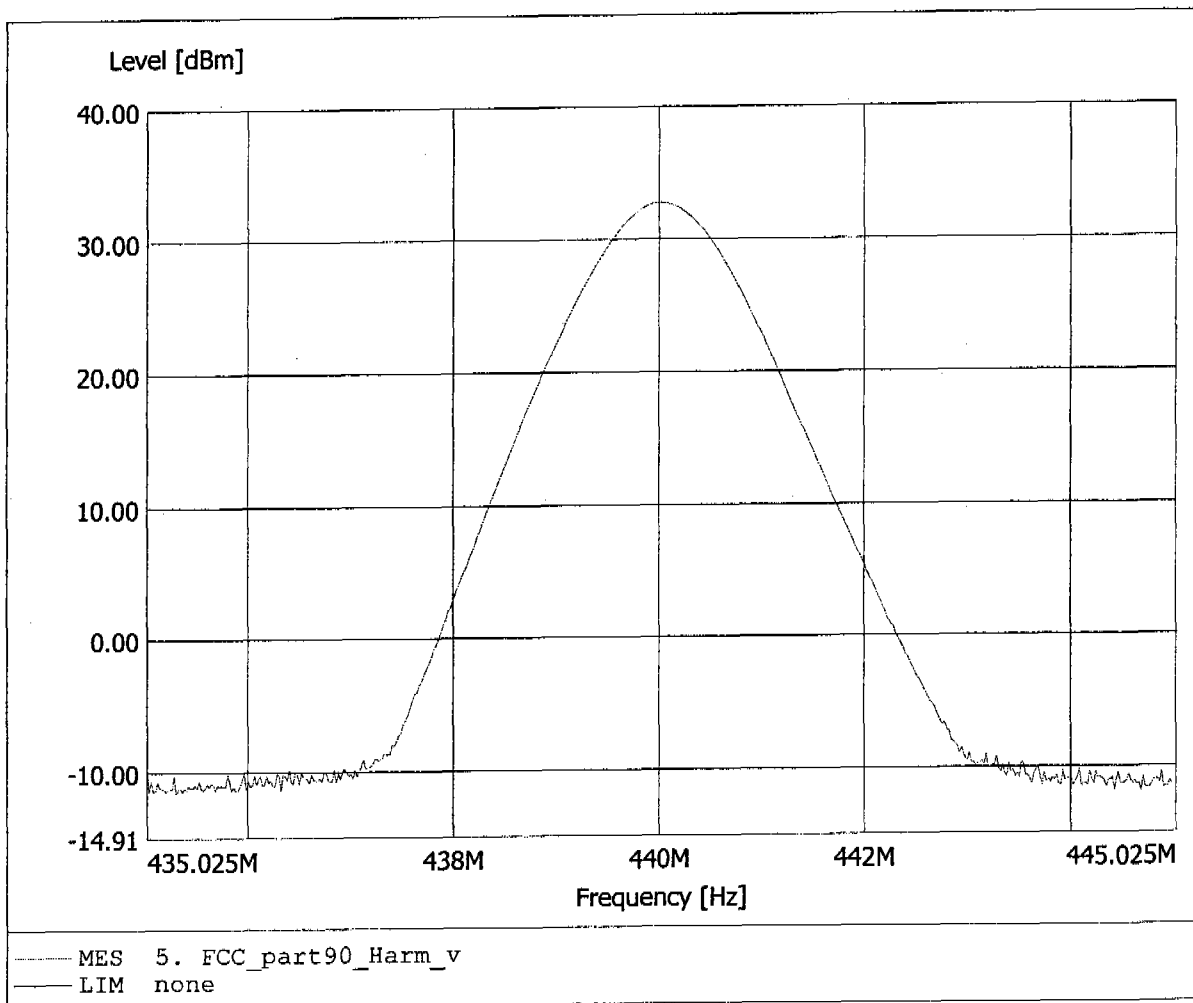
**Radiated power under normal conditions
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 440.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223,
Comment 2: Freq:440.015MHz Pmax:28.77dBm RBW: 1 MHz



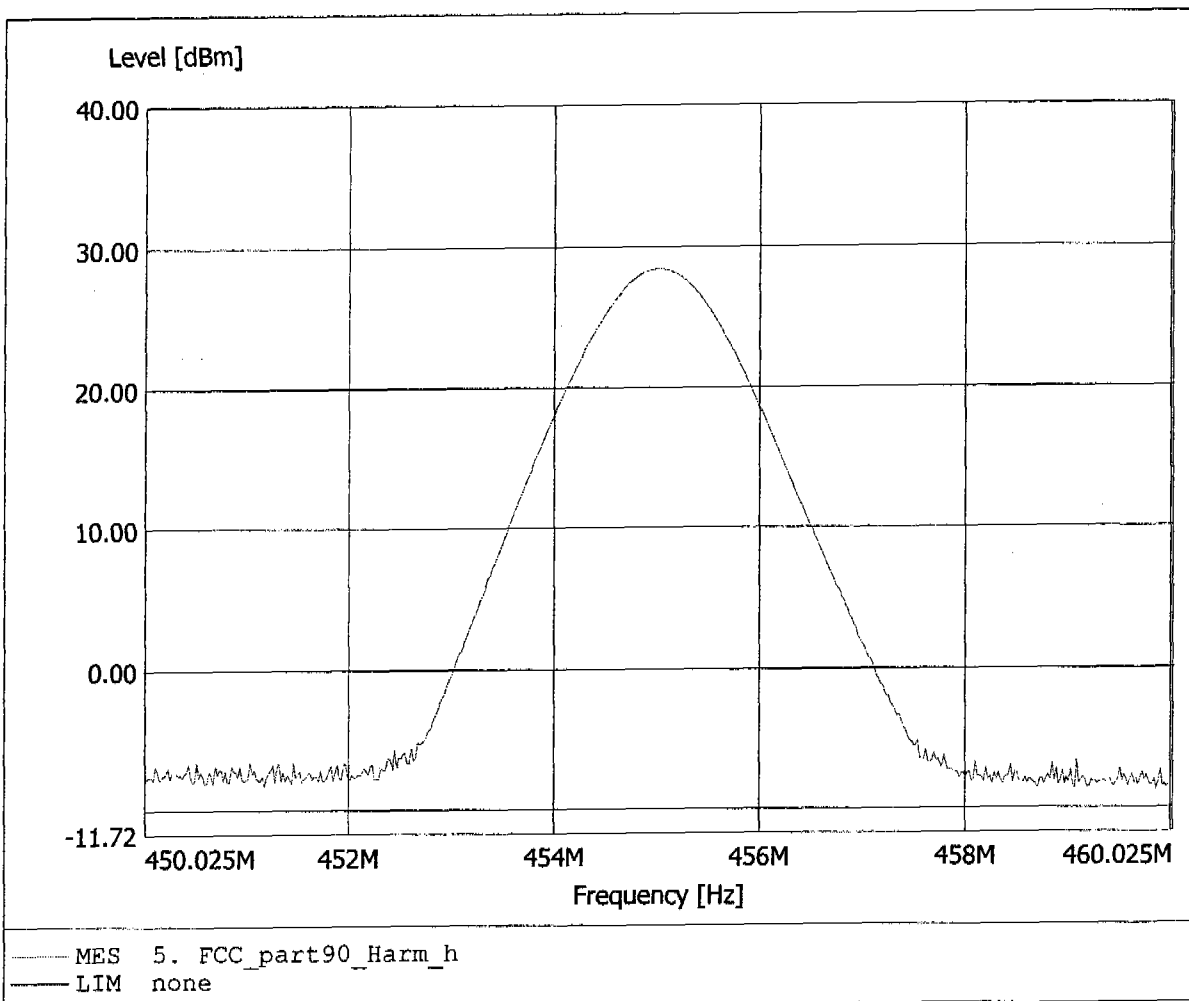
**Radiated power under normal conditions
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 440.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223,
Comment 2: Freq:440.035MHz Pmax:32.75dBm RBW: 1 MHz



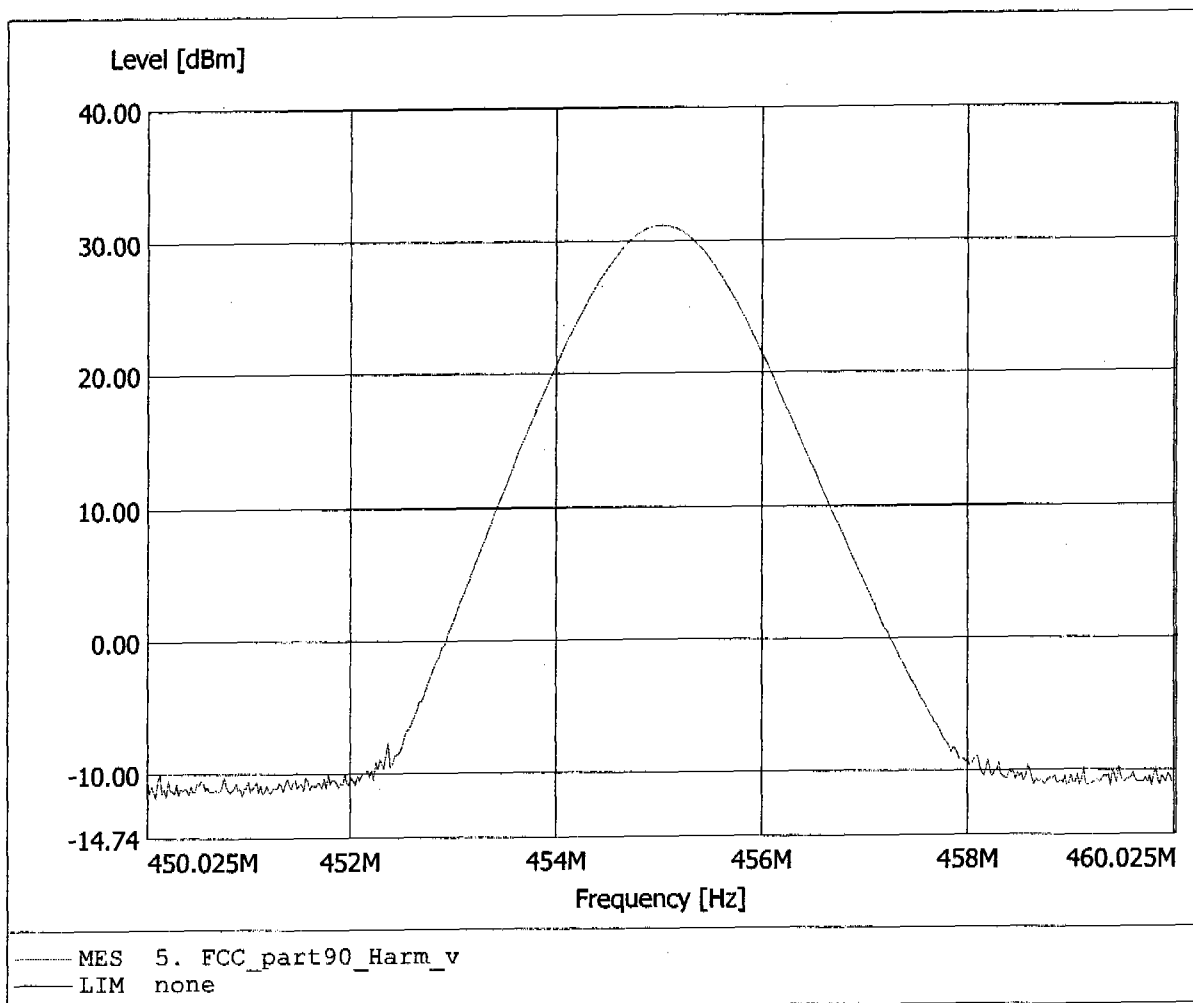
**Radiated power under normal conditions
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223,
Comment 2: Freq:455.055MHz Pmax:28.45dBm RBW: 1 MHz



**Radiated power under normal conditions
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223,
Comment 2: Freq:455.035MHz Pmax:31.18dBm RBW: 1 MHz



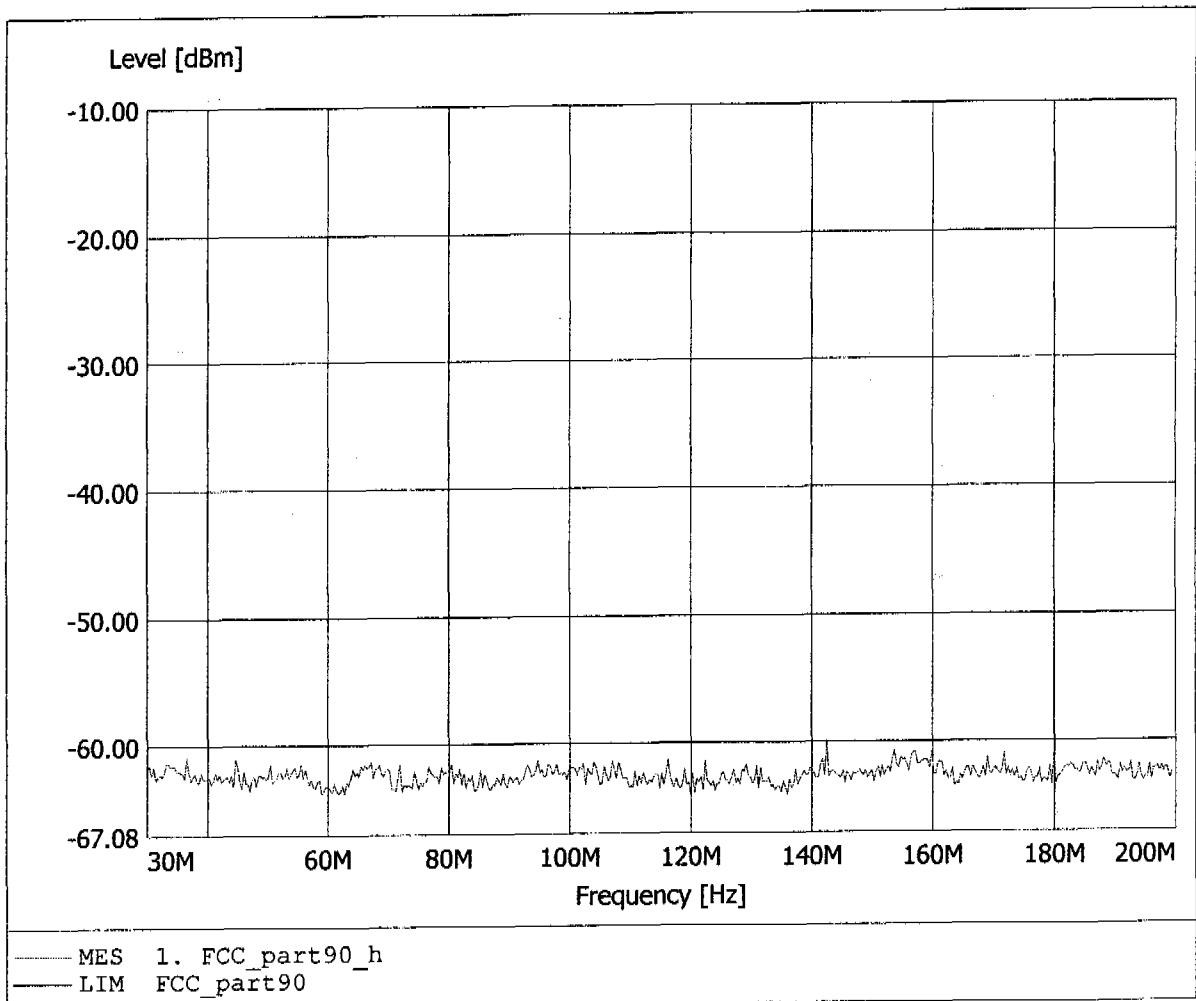


Appendix D

Spurious Emissions radiated - Transmitter operating

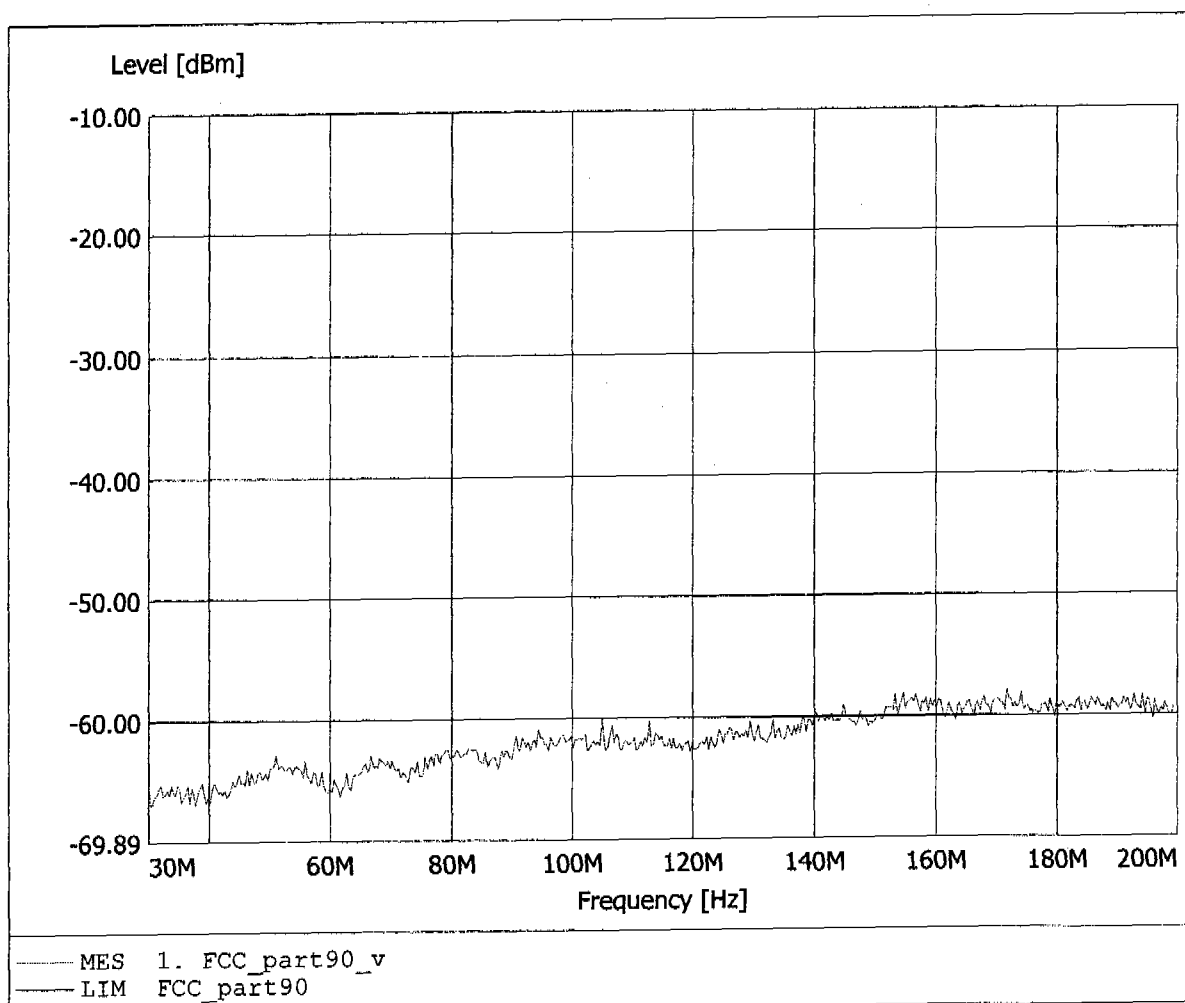
**Spurious emissions under normal conditions
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116,
Comment 2: Freq:142.425MHz Pmax:-59.88dBm RBW: 100 kHz



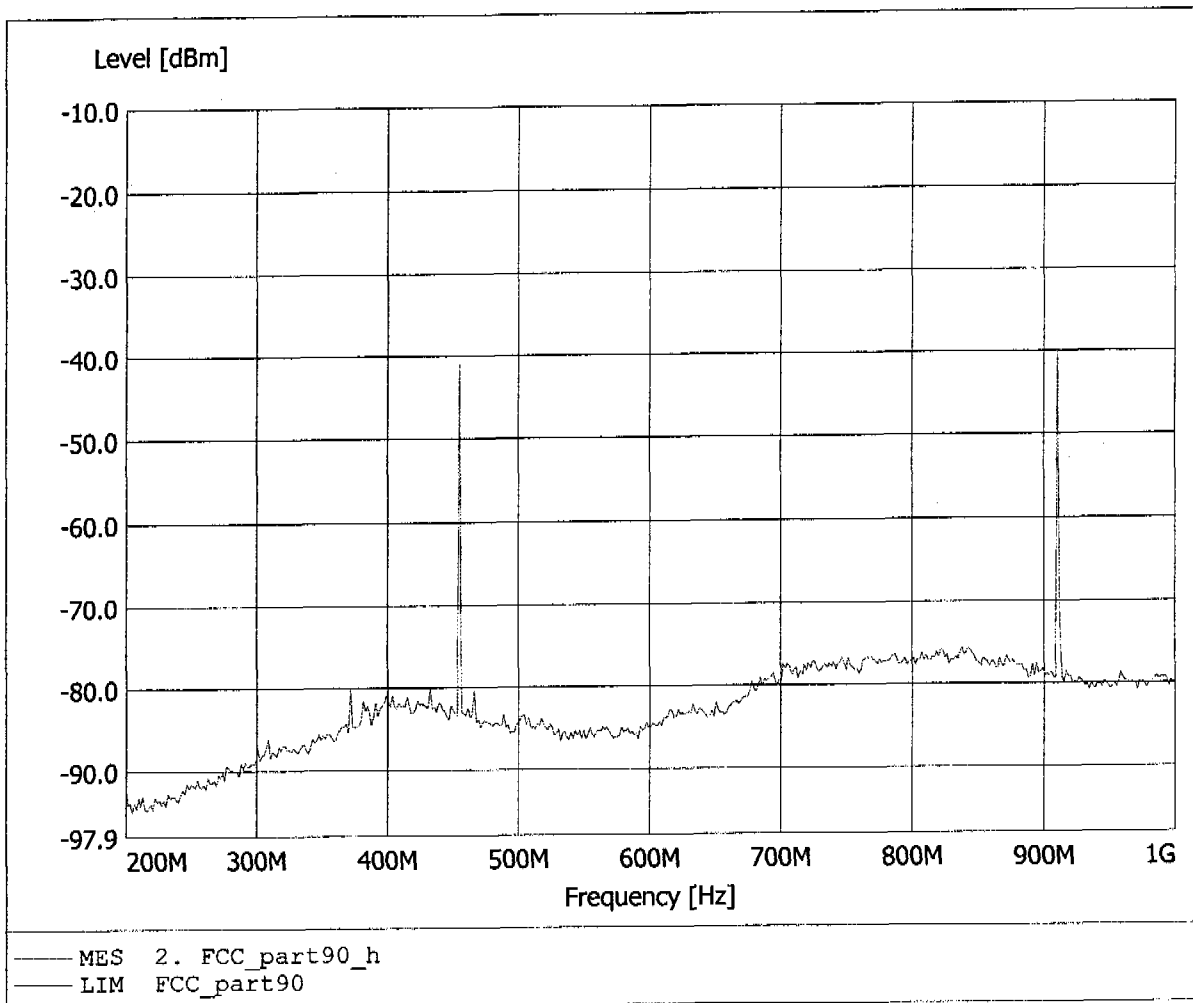
**Spurious emissions under normal conditions
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116,
Comment 2: Freq:171.723MHz Pmax:-57.89dBm RBW: 100 kHz



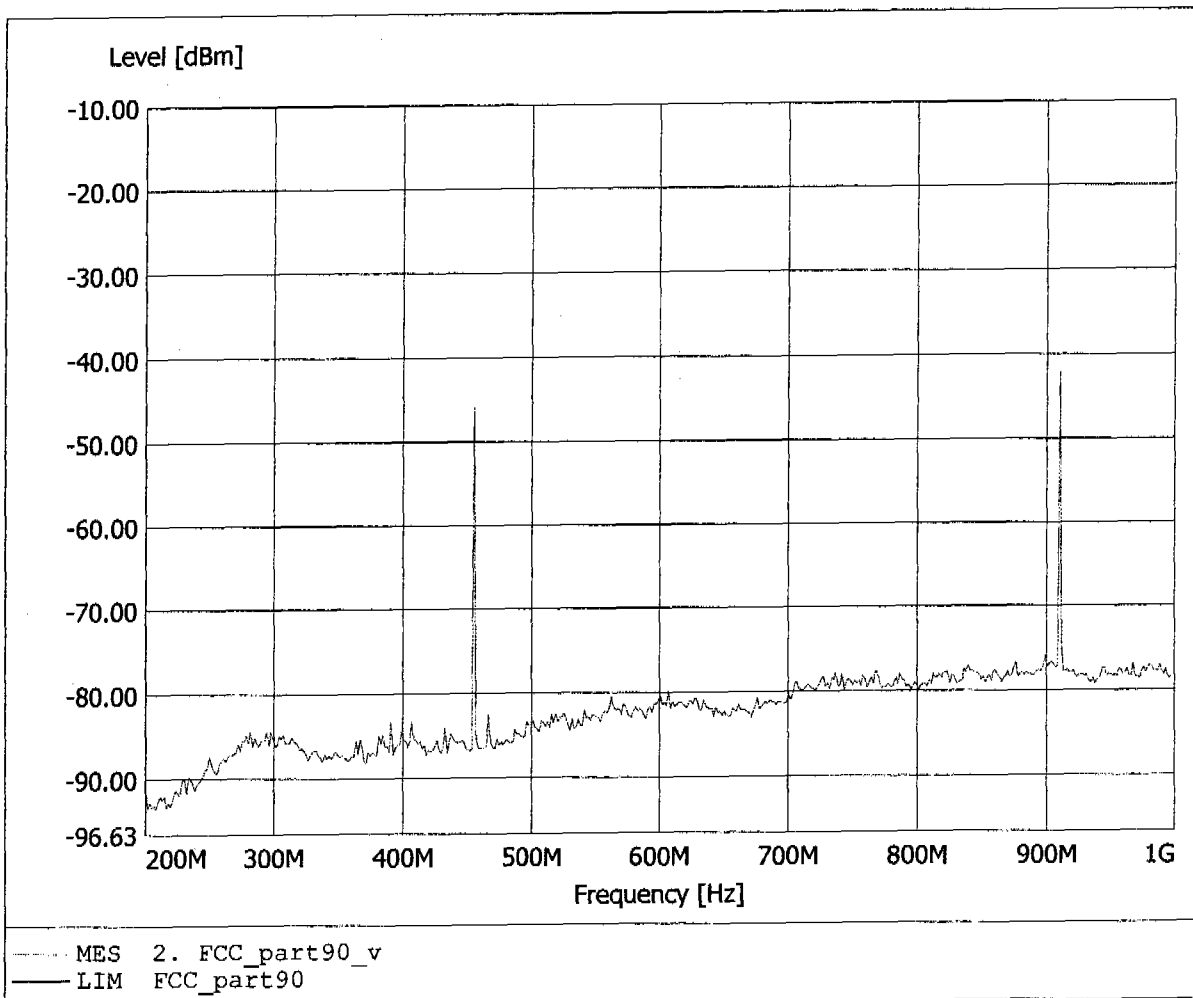
Spurious emissions under normal conditions
FCC RULES PART 90

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223,
Comment 2: Freq:910.220MHz Pmax:-40.24dBm RBW: 100 kHz



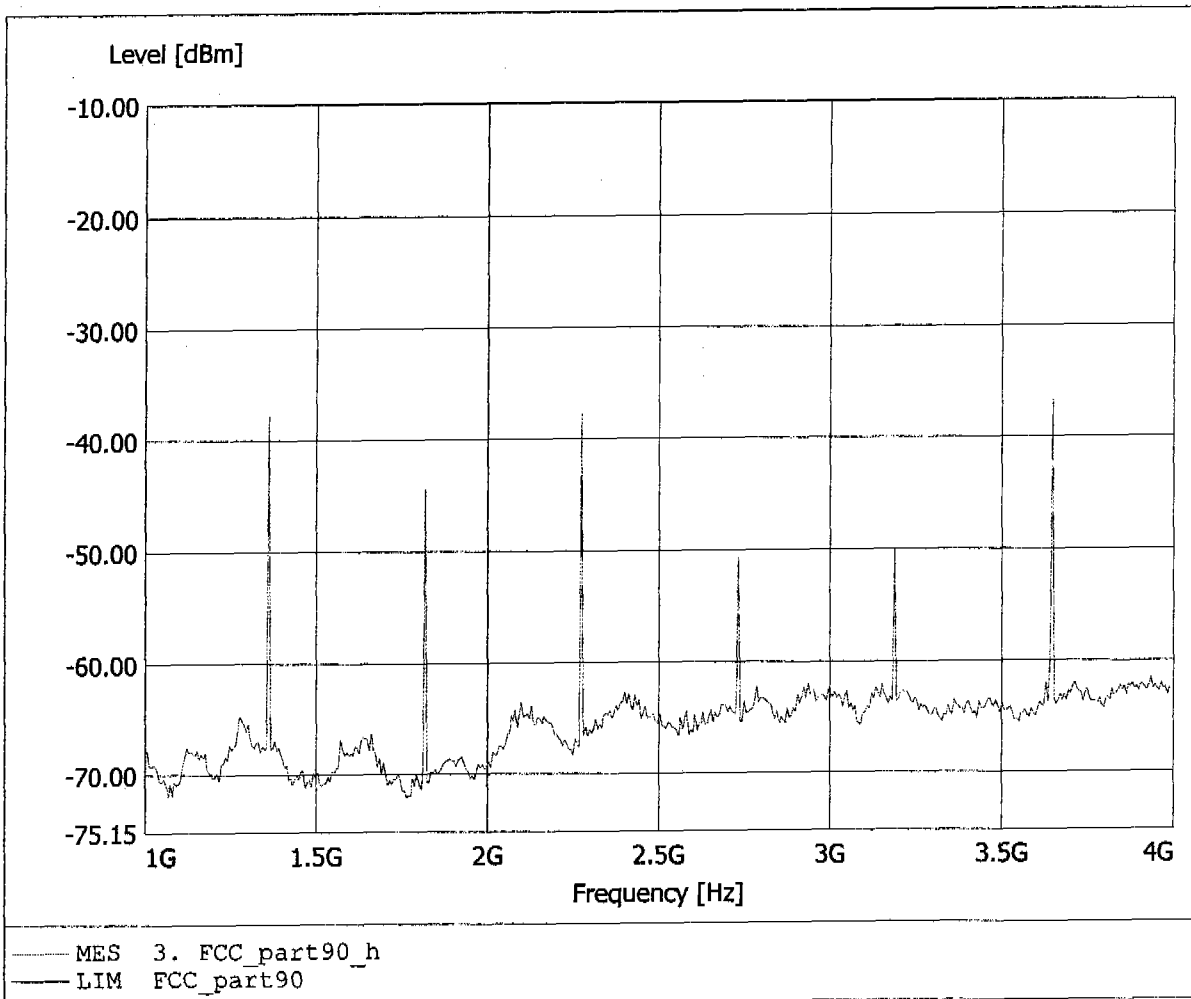
**Spurious emissions under normal conditions
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223,
Comment 2: Freq: 910.220MHz Pmax: -42.18dBm RBW: 100 kHz



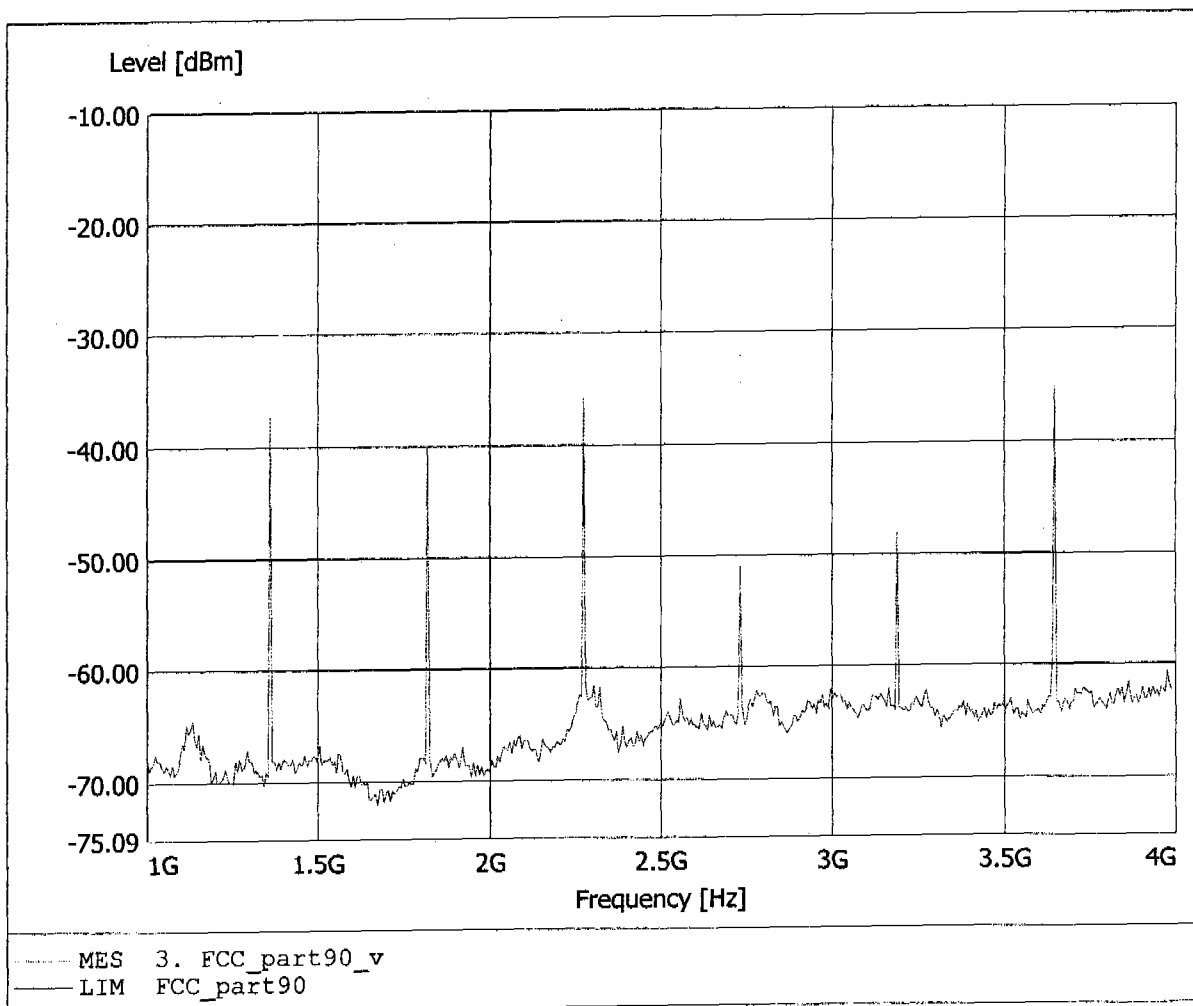
Spurious emissions under normal conditions
FCC RULES PART 90

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D, + HP, ampl.: 1-4 GHz
Comment 2: Freq:3.645GHz Pmax:-36.83dBm RBW: 1 MHz



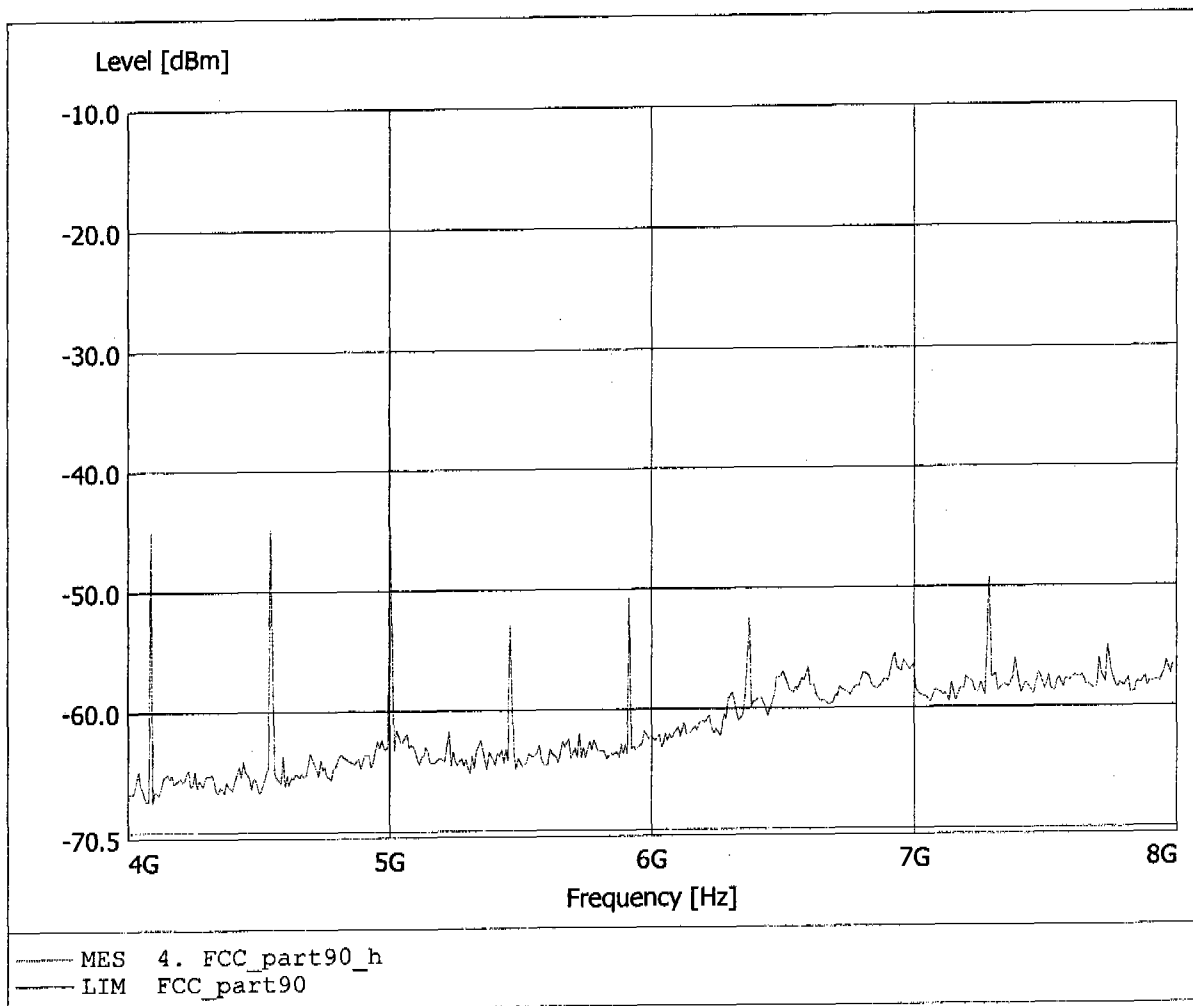
**Spurious emissions under normal conditions
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D, + HP, ampl.: 1-4 GHz
Comment 2: Freq:3.645GHz Pmax:-35.11dBm RBW: 1 MHz



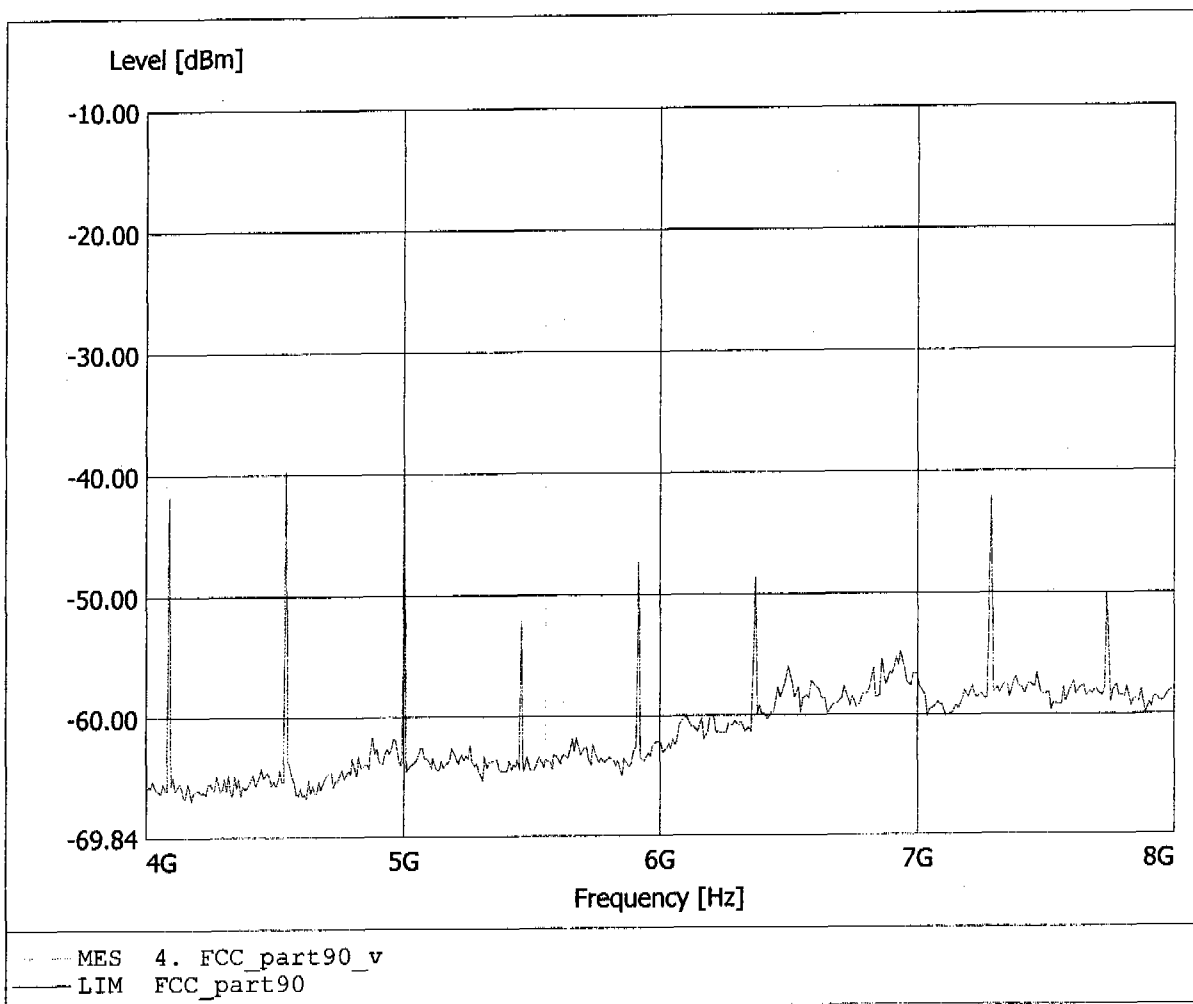
**Spurious emissions under normal conditions
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 455.025 MHz
Model: AT5-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D, + HP, ampl.: 4-8 GHz
Comment 2: Freq: 4.545GHz Pmax: -44.88dBm RBW: 1 MHz



**Spurious emissions under normal conditions
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC (rechargeable battery)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: Fully anechoic chamber / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA 9120D, + HP, ampl.: 4-8 GHz
Comment 2: Freq: 4.545GHz Pmax: -39.76dBm RBW: 1 MHz



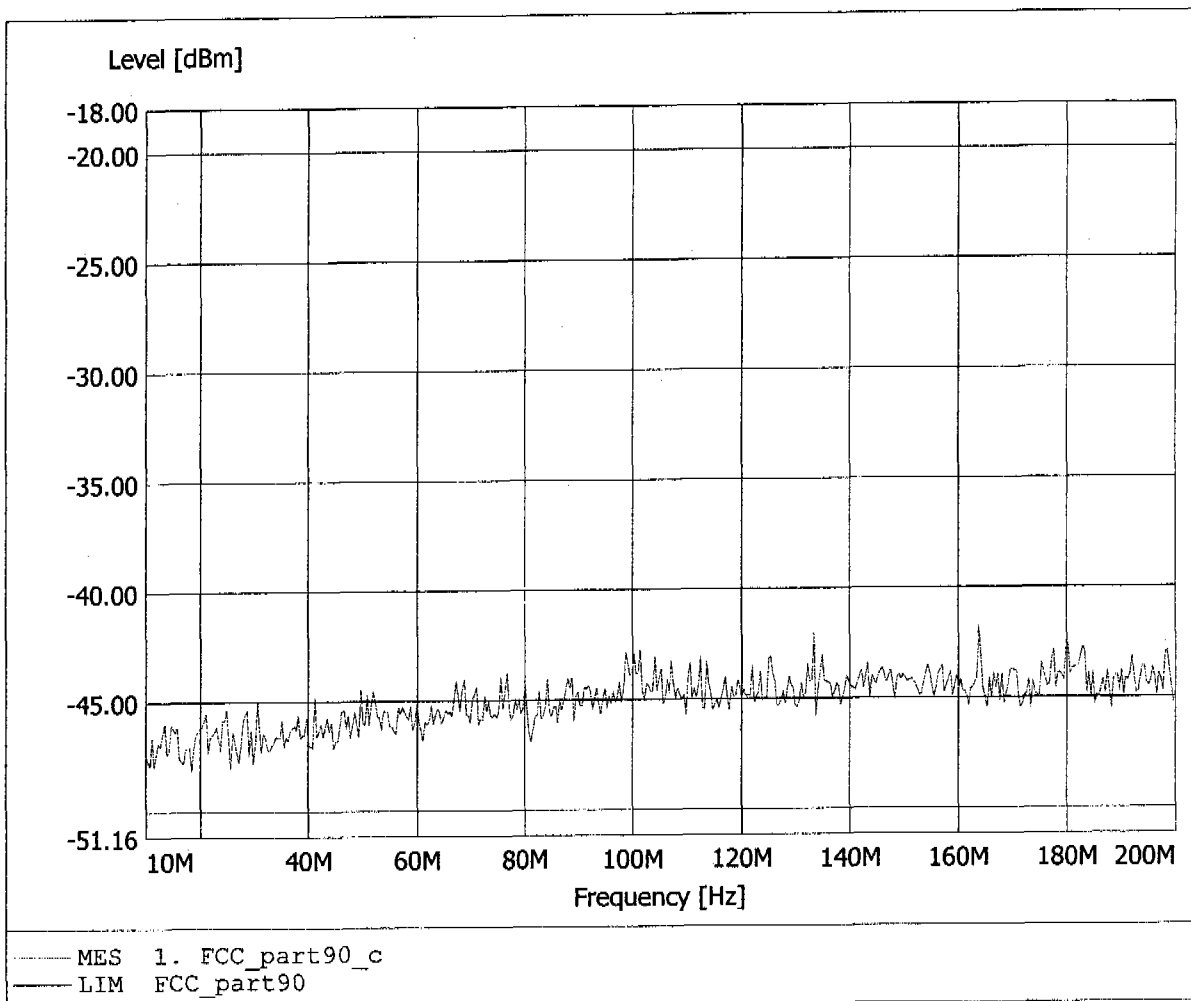


Appendix E

Spurious Emissions at antenna terminal

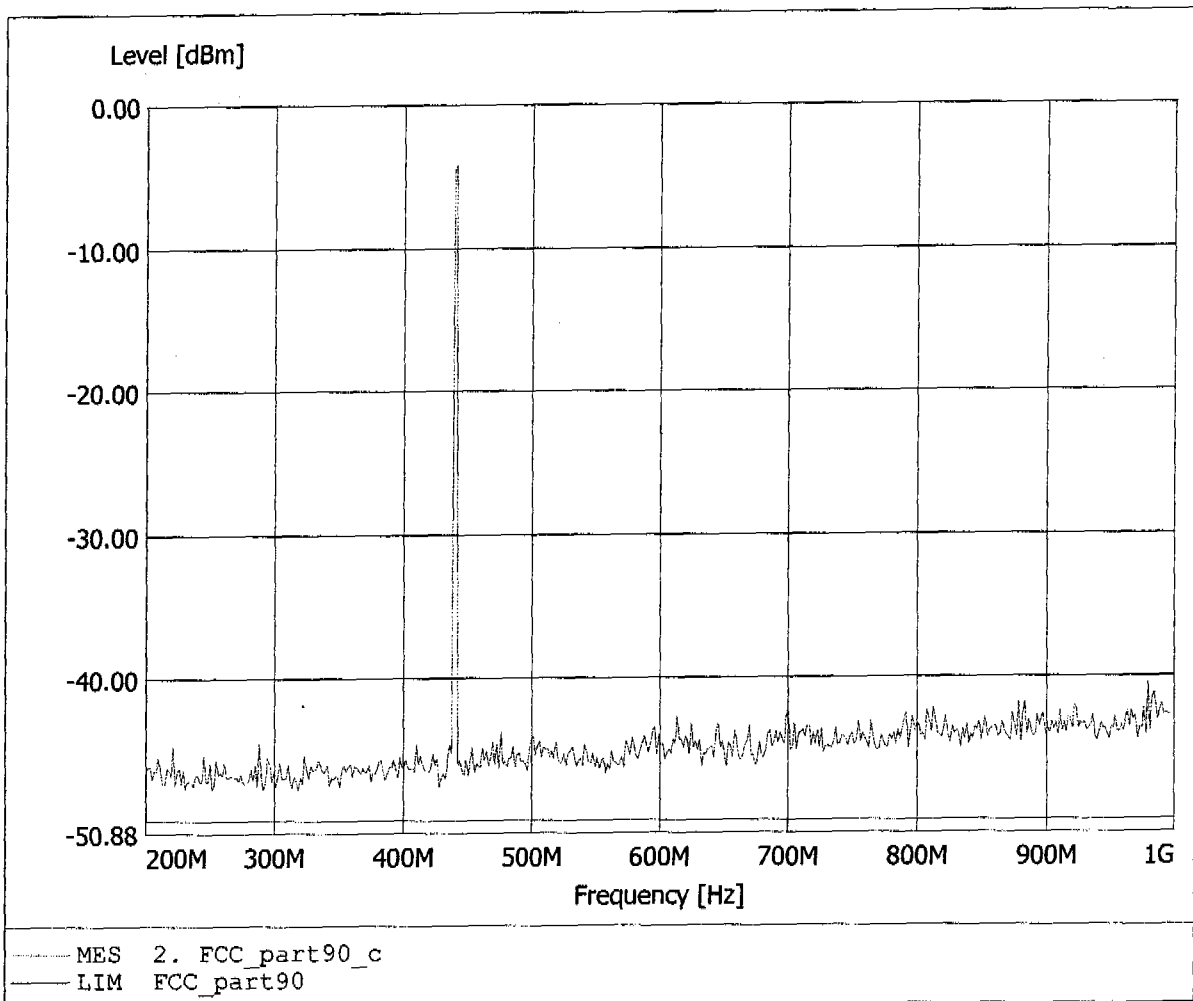
**Spurious emissions at antenna terminal
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 440.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:163.828MHz Pmax:-41.79dBm RBW: 100kHz



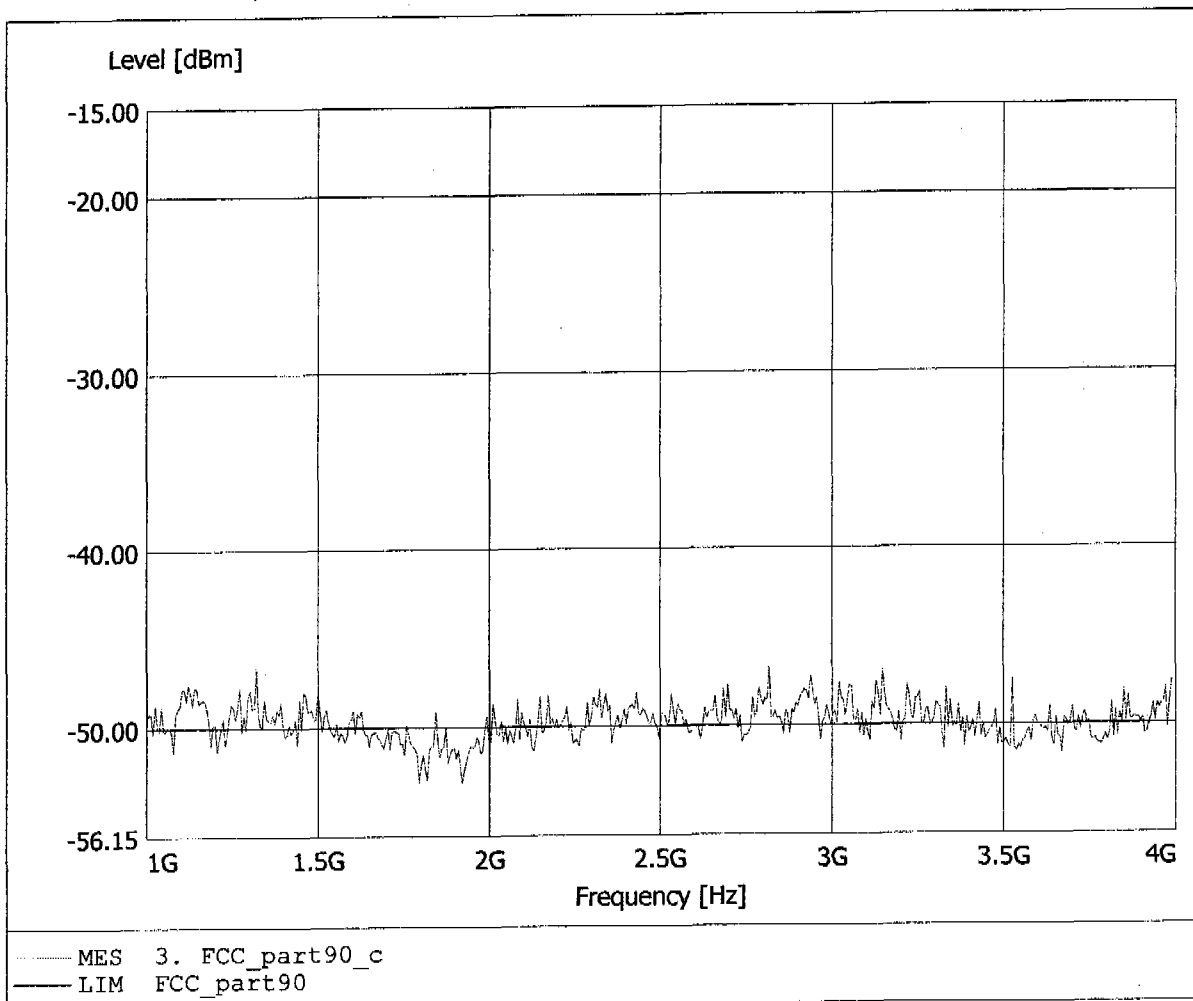
**Spurious emissions at antenna terminal
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 440.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:440.481MHz Fmax:-4.20dBm RBW: 100kHz



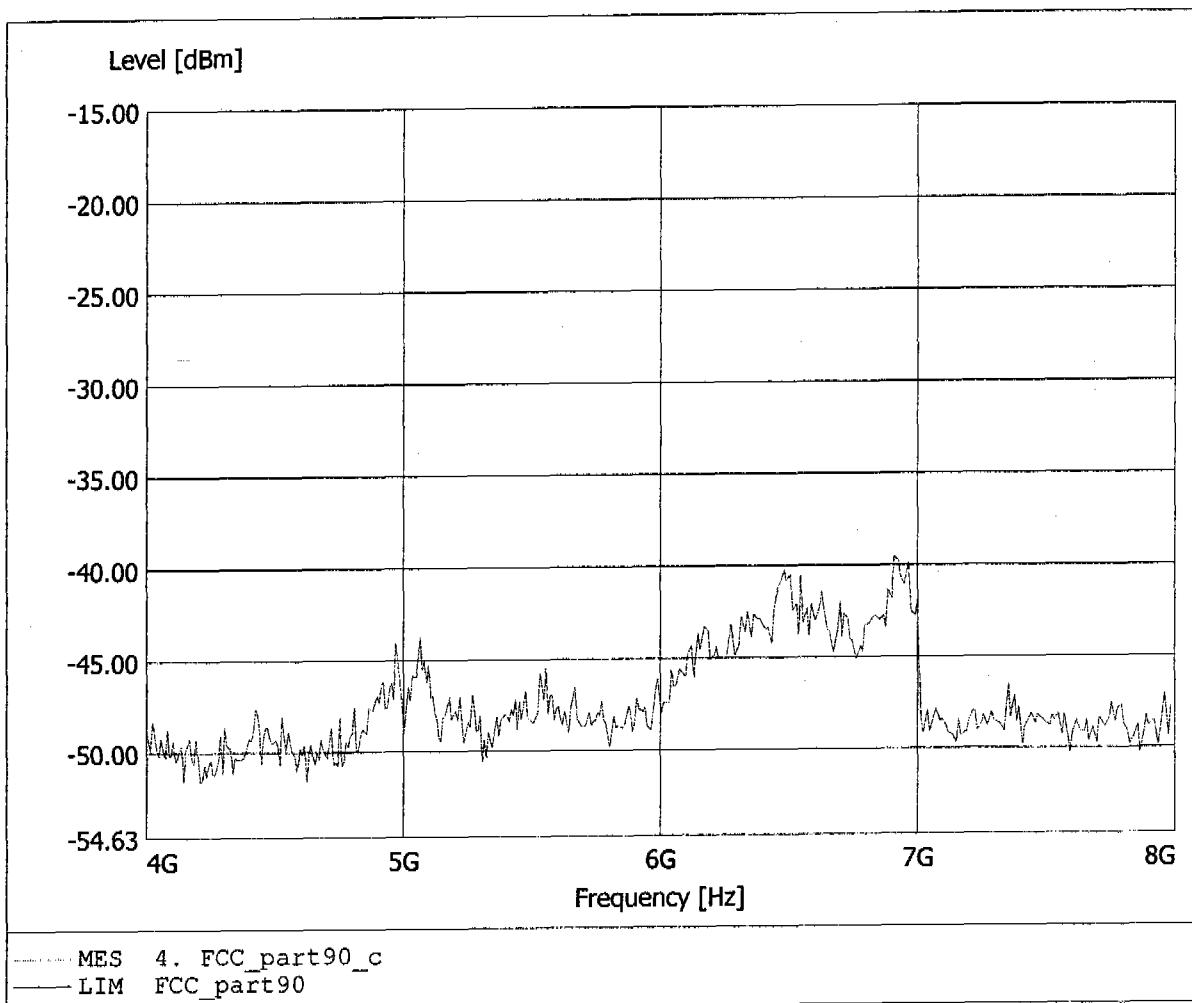
**Spurious emissions at antenna terminal
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 440.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:2.816GHz Pmax:-46.63dBm RBW: 1MHz



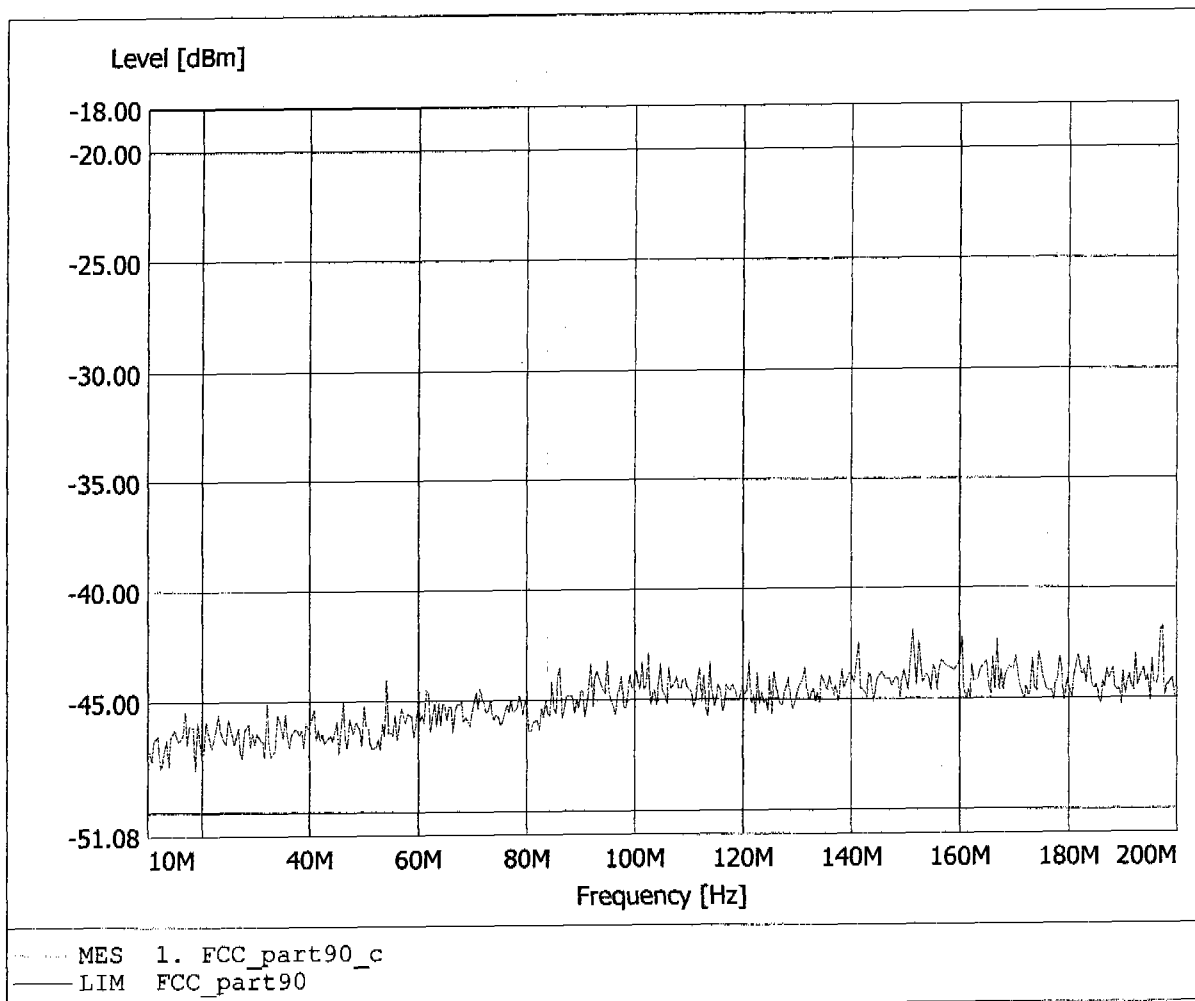
**Spurious emissions at antenna terminal
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 440.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:6.910GHz Pmax:-39.52dBm RBW: 1MHz



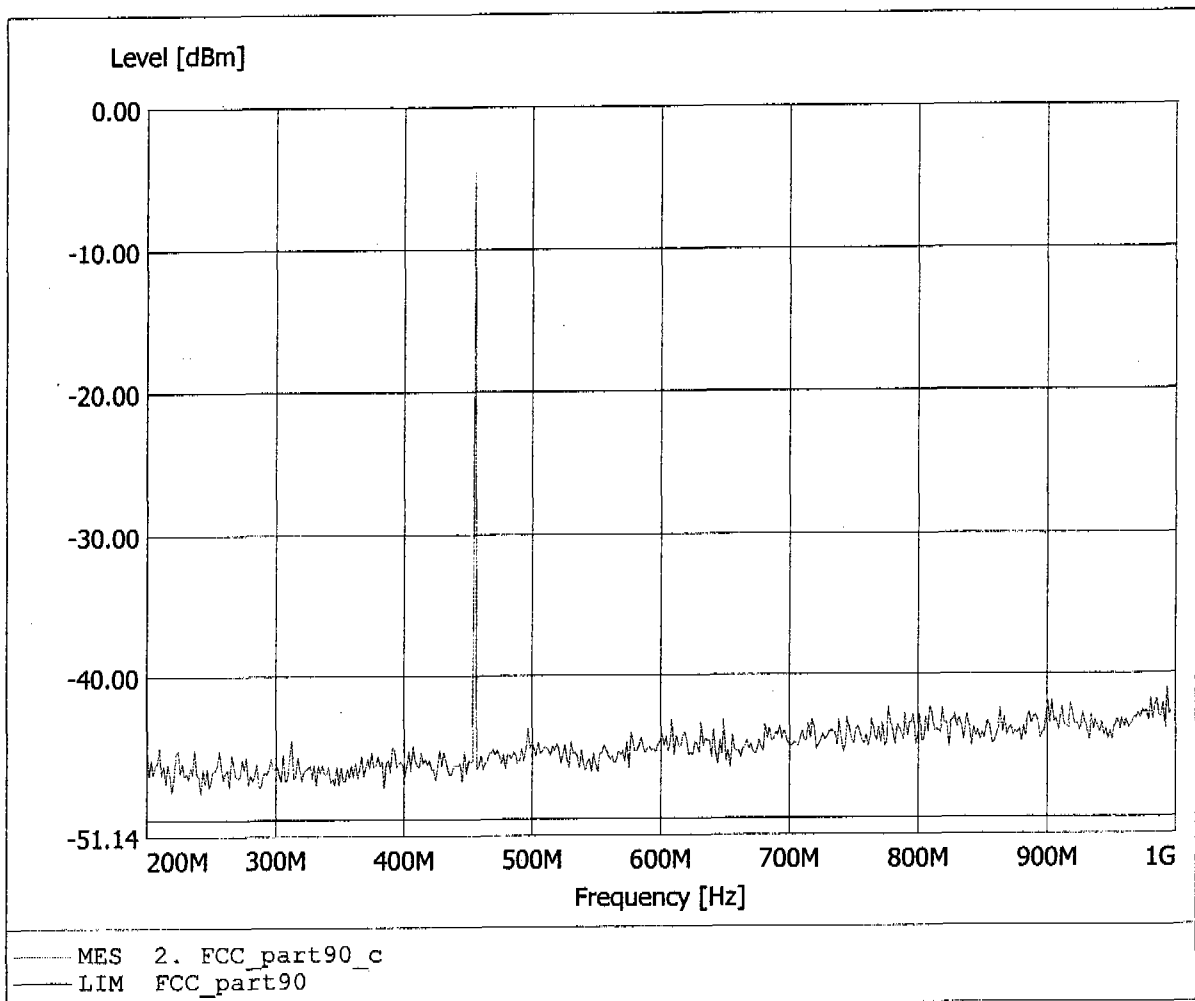
Spurious emissions at antenna terminal
FCC RULES PART 90

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:197.335MHz Pmax:-41.79dBm RBW: 100kHz



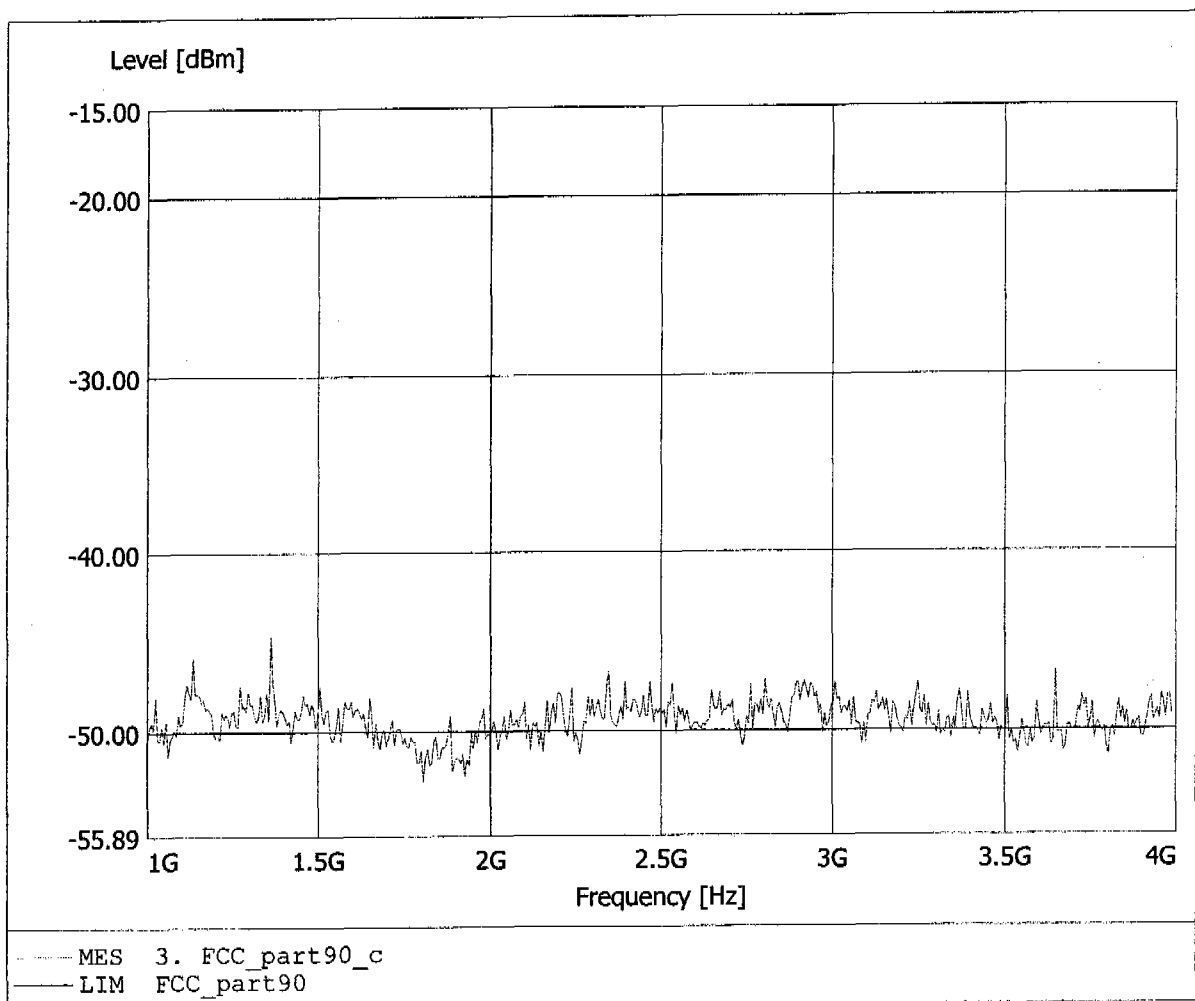
**Spurious emissions at antenna terminal
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:454.910MHz Pmax:-4.55dBm RBW: 100kHz



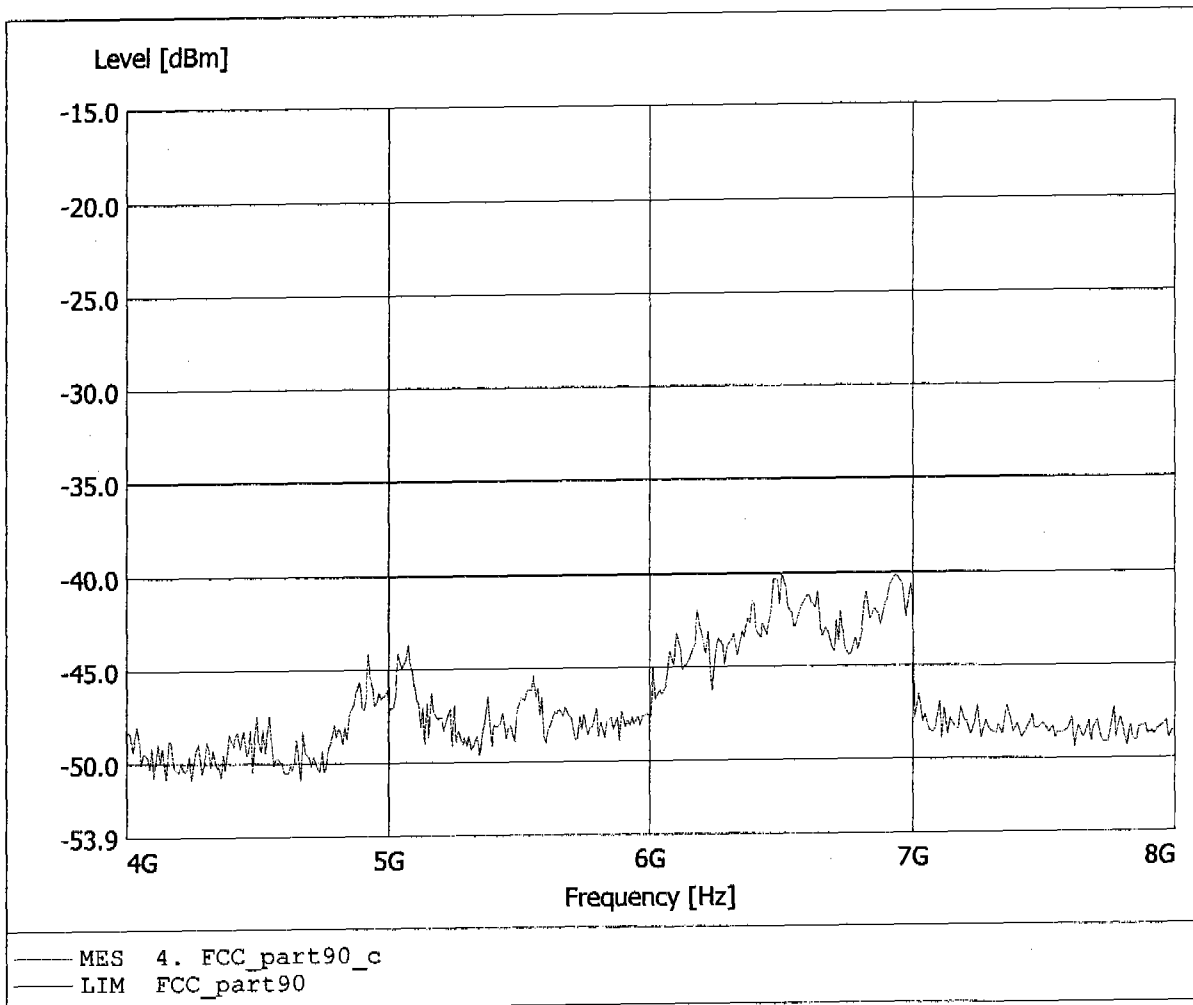
**Spurious emissions at antenna terminal
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:1.361GHz Pmax:-44.57dBm RBW: 1MHz



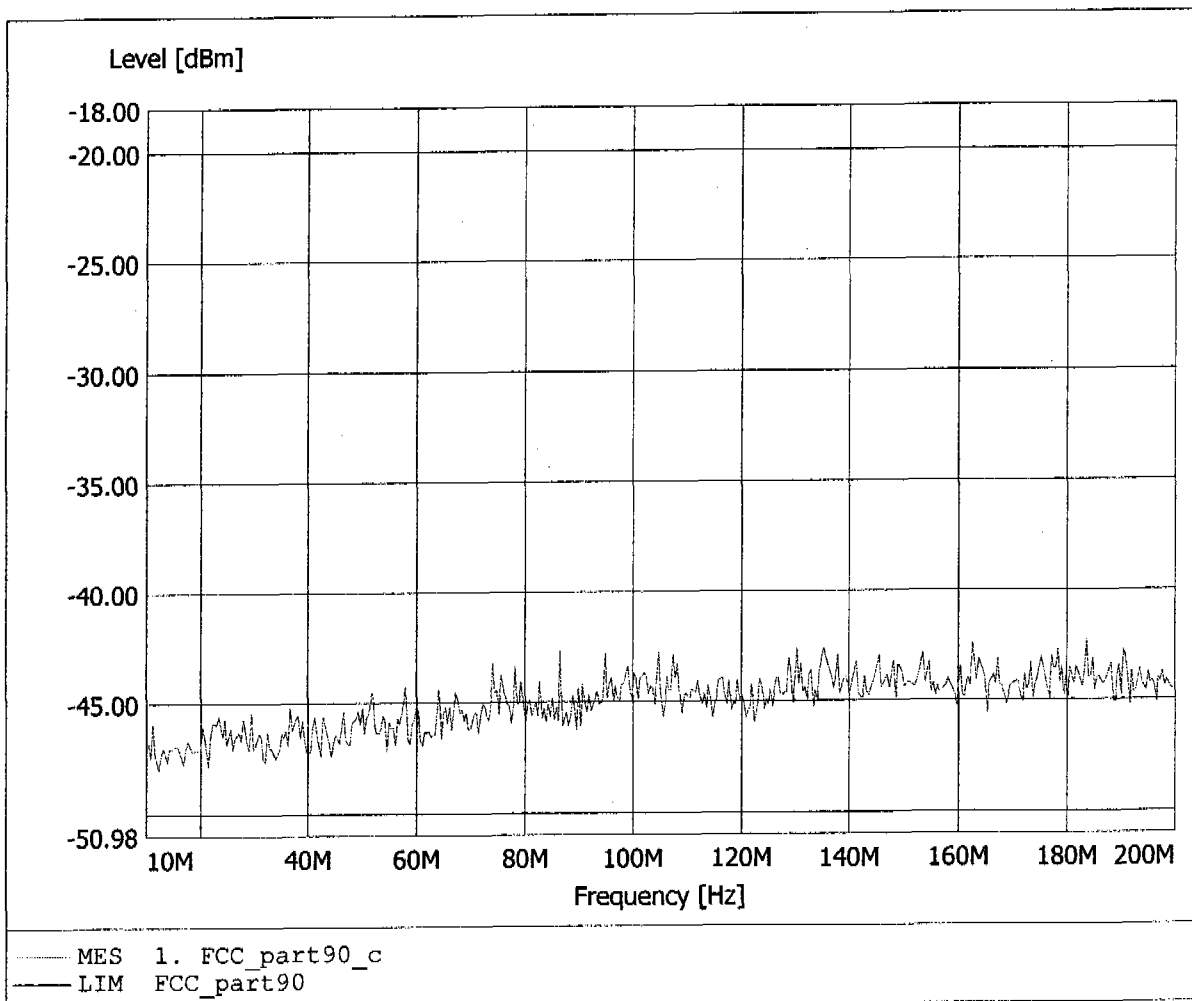
**Spurious emissions at antenna terminal
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:6.501GHz Pmax:-40.00dBm RBW: 1MHz



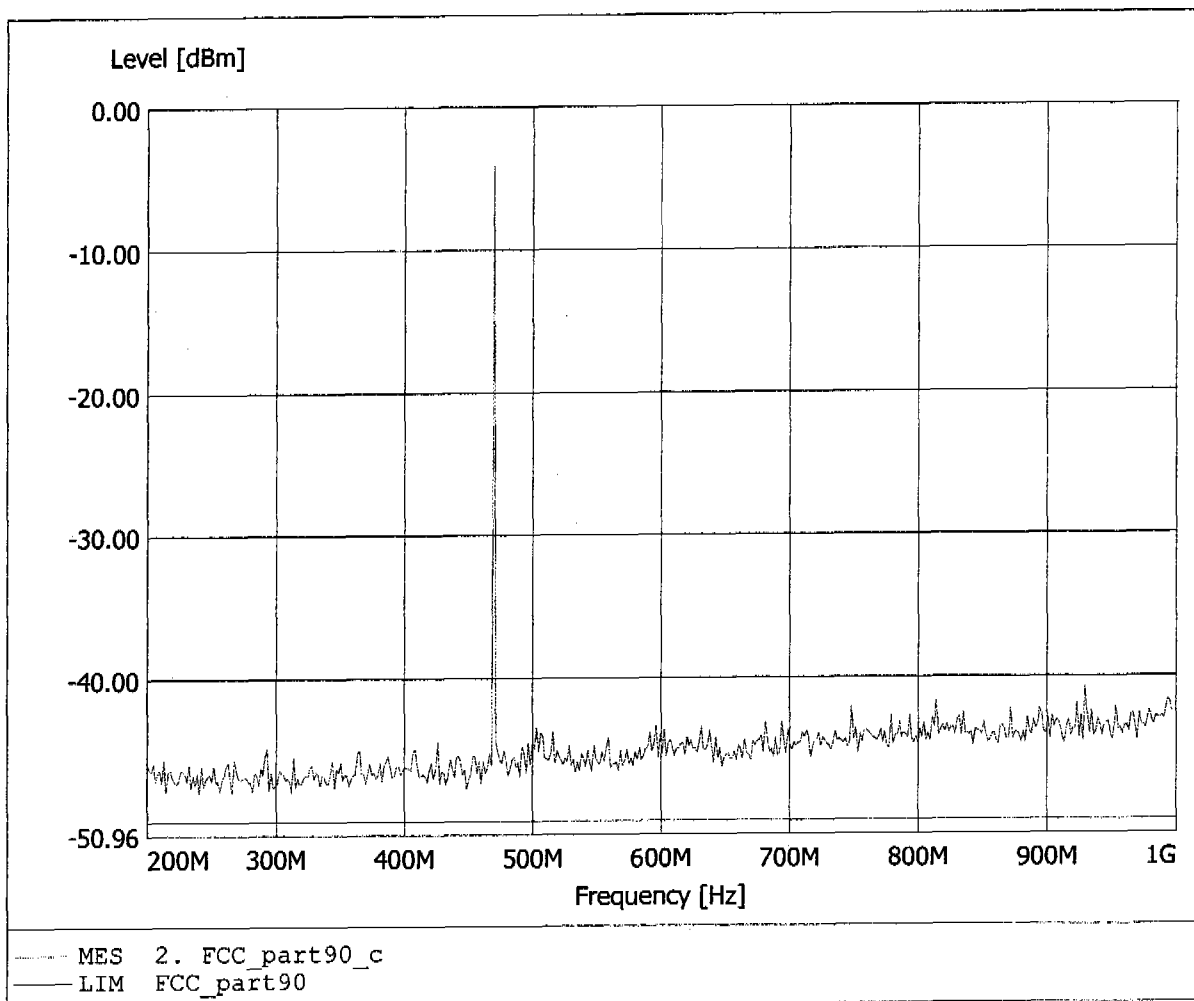
**Spurious emissions at antenna terminal
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 469.975 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:183.627MHz Pmax:-42.30dBm RBW: 100kHz



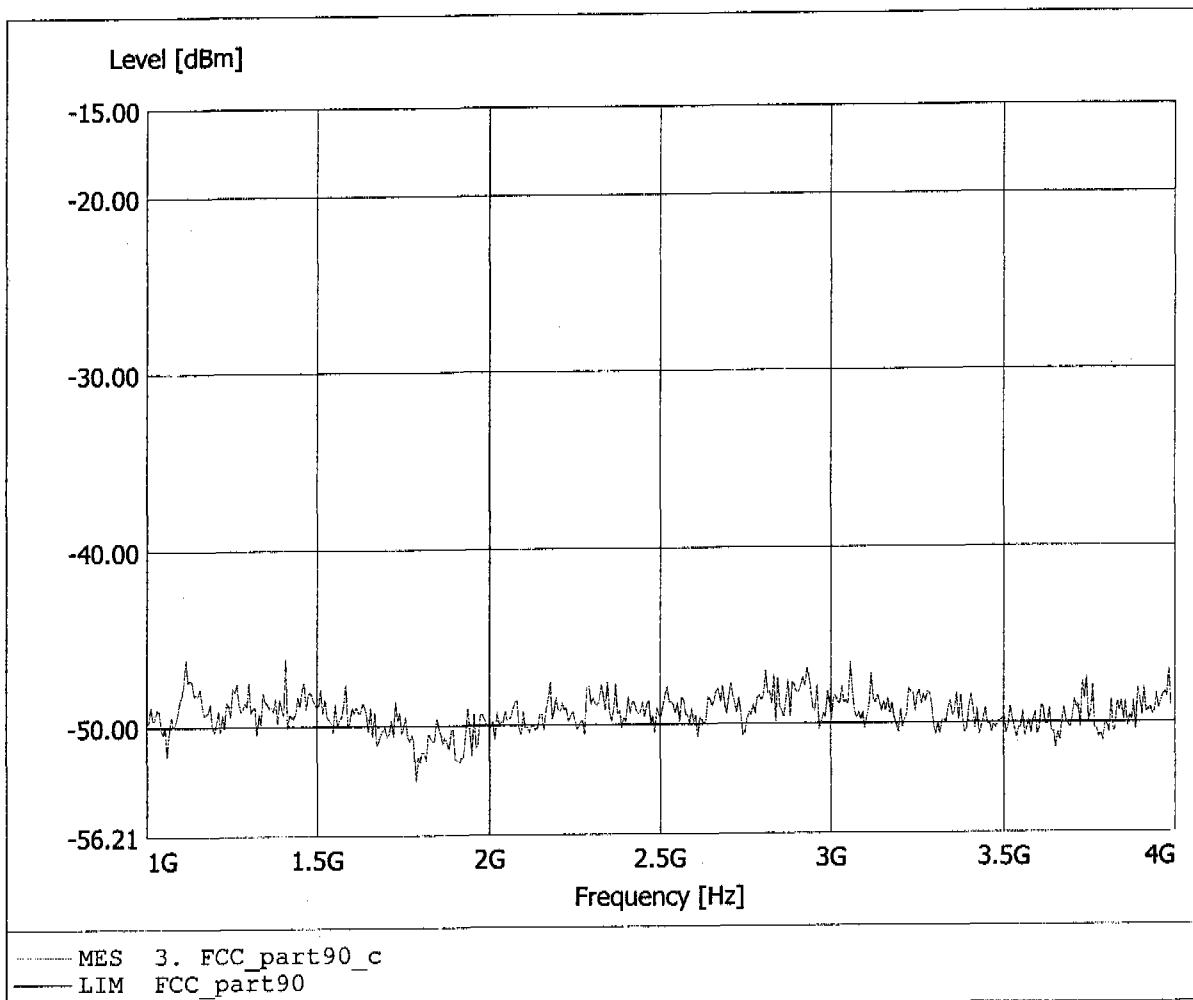
Spurious emissions at antenna terminal
FCC RULES PART 90

EUT: FM Handheld Transceiver / 469.975 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq: 469.339MHz Pmax: -4.13dBm RBW: 100kHz



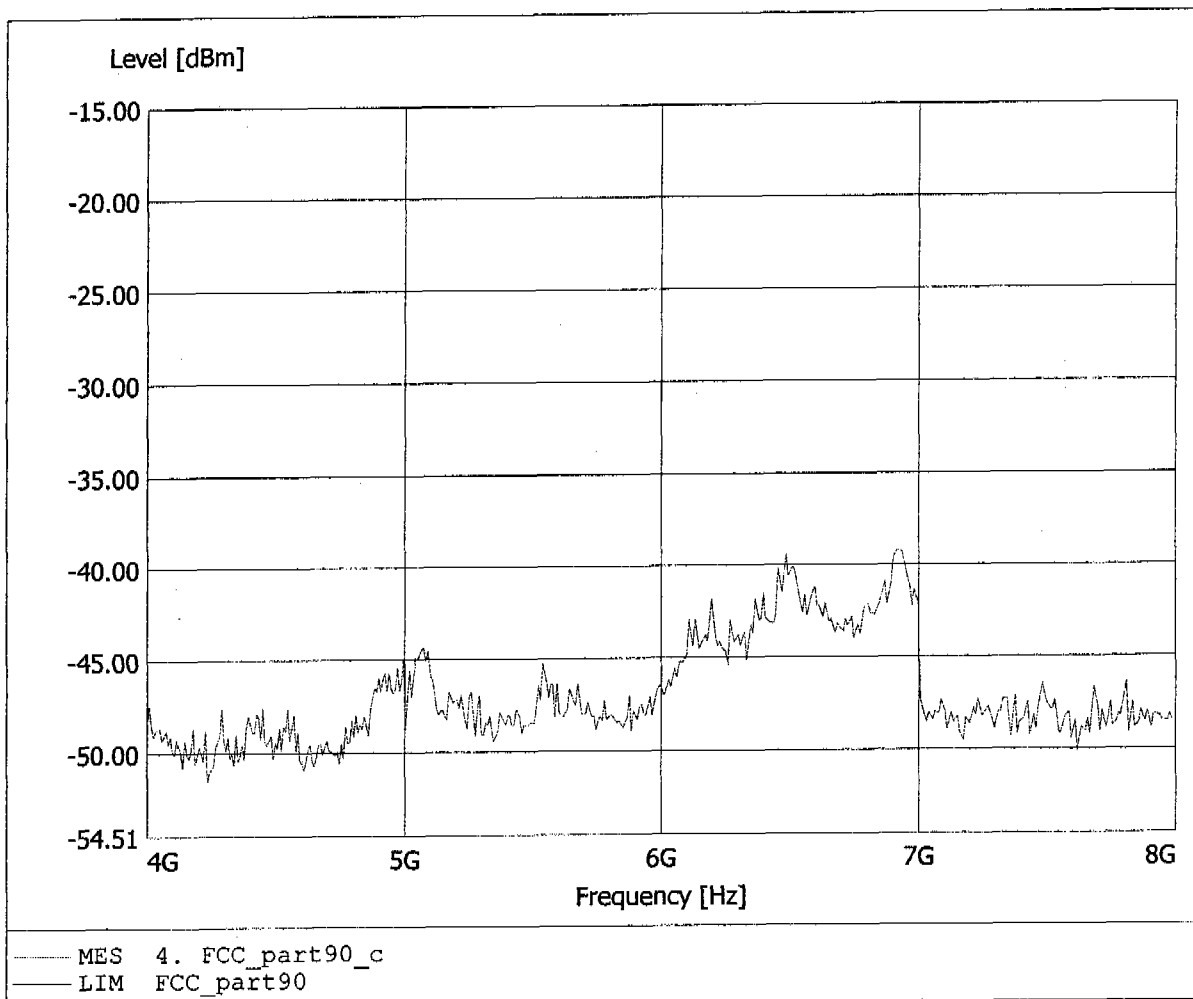
**Spurious emissions at antenna terminal
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 469.975 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:1.114GHz Pmax:-46.15dBm RBW: 1MHz



**Spurious emissions at antenna terminal
FCC RULES PART 90**

EUT: FM Handheld Transceiver / 469.975 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load
Comment 2: Freq:6.918GHz Pmax:-39.17dBm RBW: 1MHz





Appendix F

Audio frequency response

No diagrams
Refer to point 3.5

Appendix G

Audio low pass filter frequency response

No diagrams

Refer to point 3.6

Appendix H

Modulation limiting

No diagrams
Refer to point 3.7

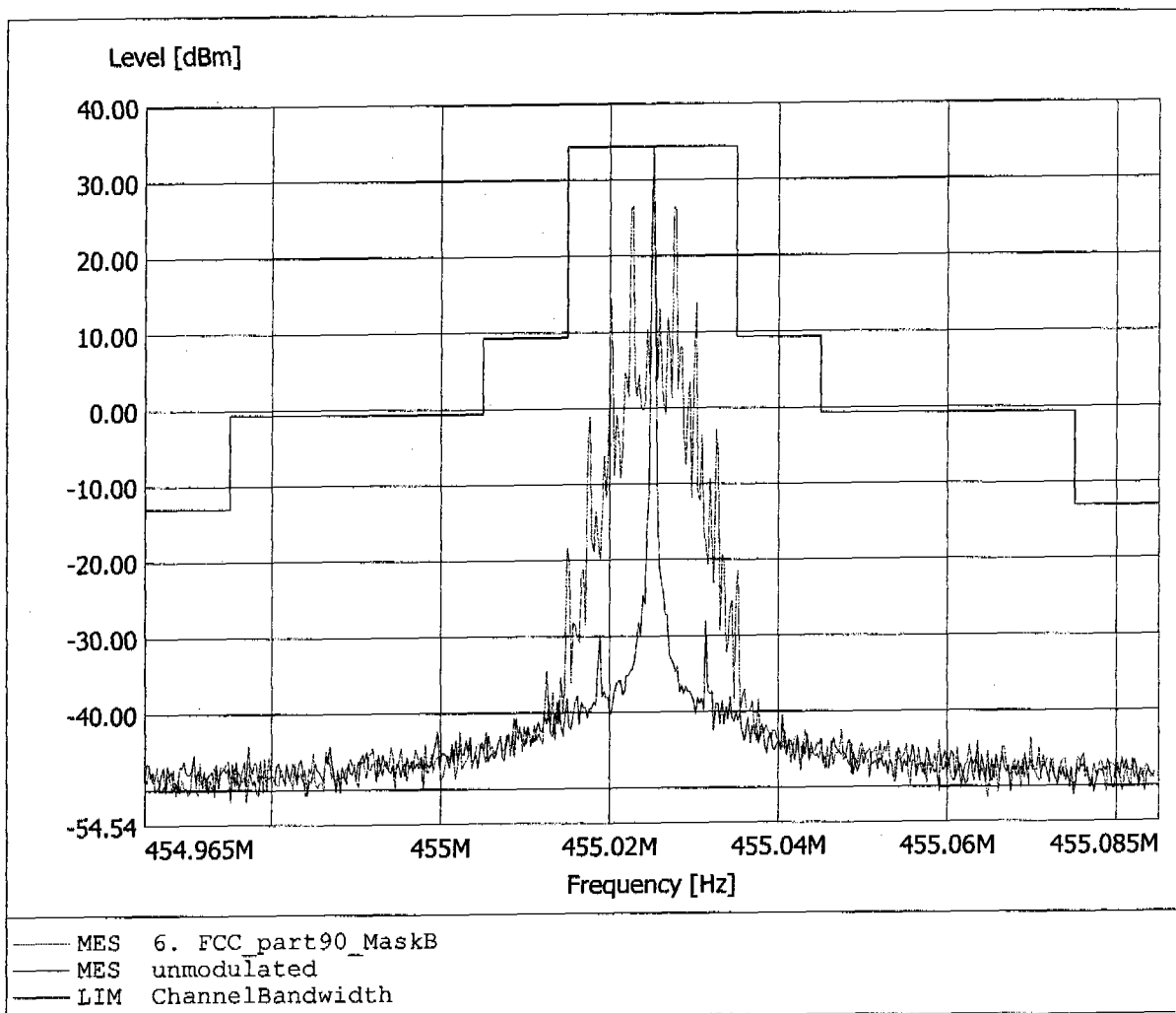


Appendix I

Occupied Bandwidth

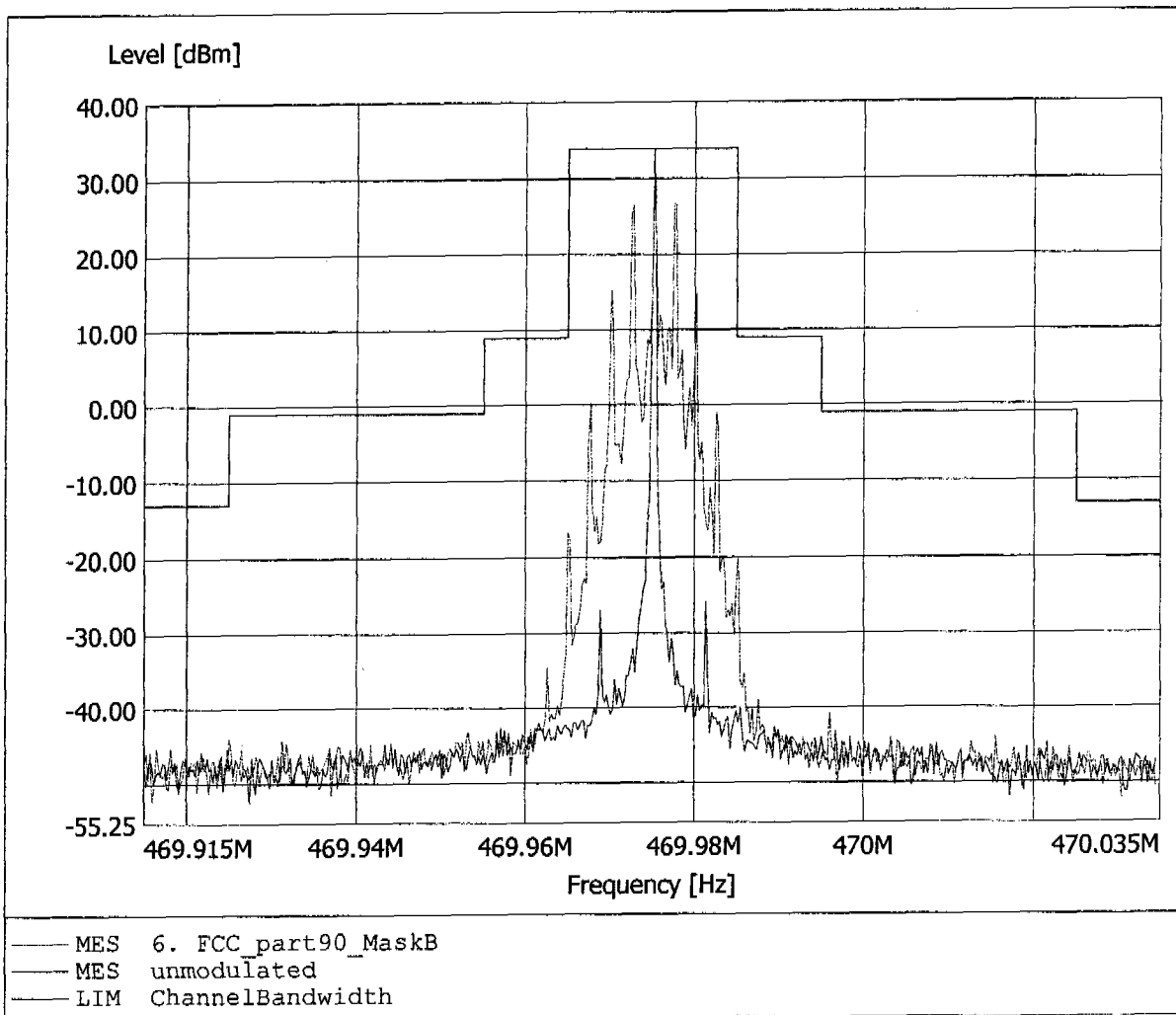
**Occupied Bandwidth Emission Mask B
FCC RULES PART 90 §90.210**

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load, Channel spacing 25 kHz
Comment 2: Freq:455.025MHz Pmax:32.14dBm RBW: 100Hz



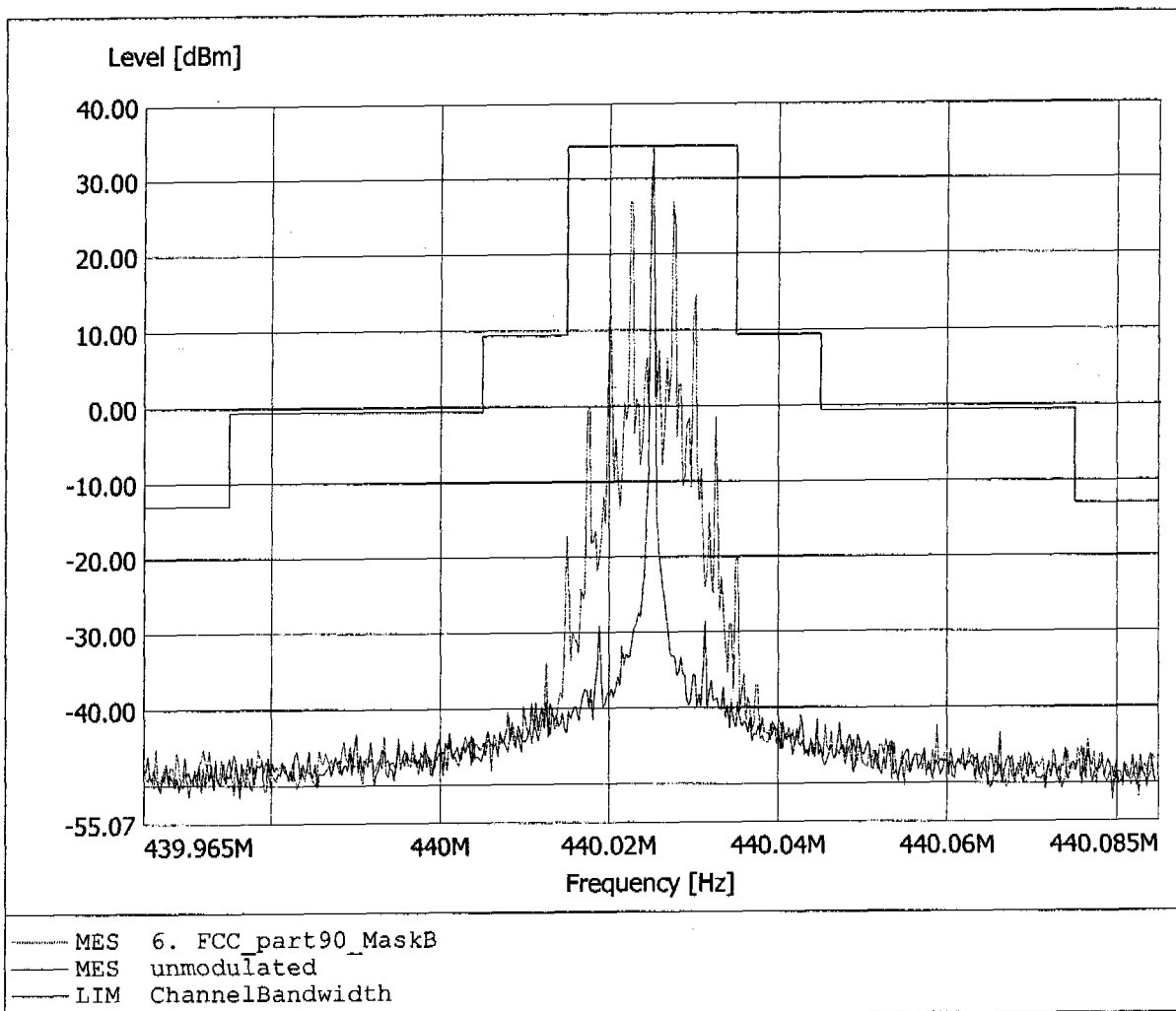
**Occupied Bandwidth Emission Mask B
FCC RULES PART 90 §90.210**

EUT: FM Handheld Transceiver / 469.975 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load, Channel spacing 25 kHz
Comment 2: Freq:469.975MHz Pmax:31.44dBm RBW: 100Hz



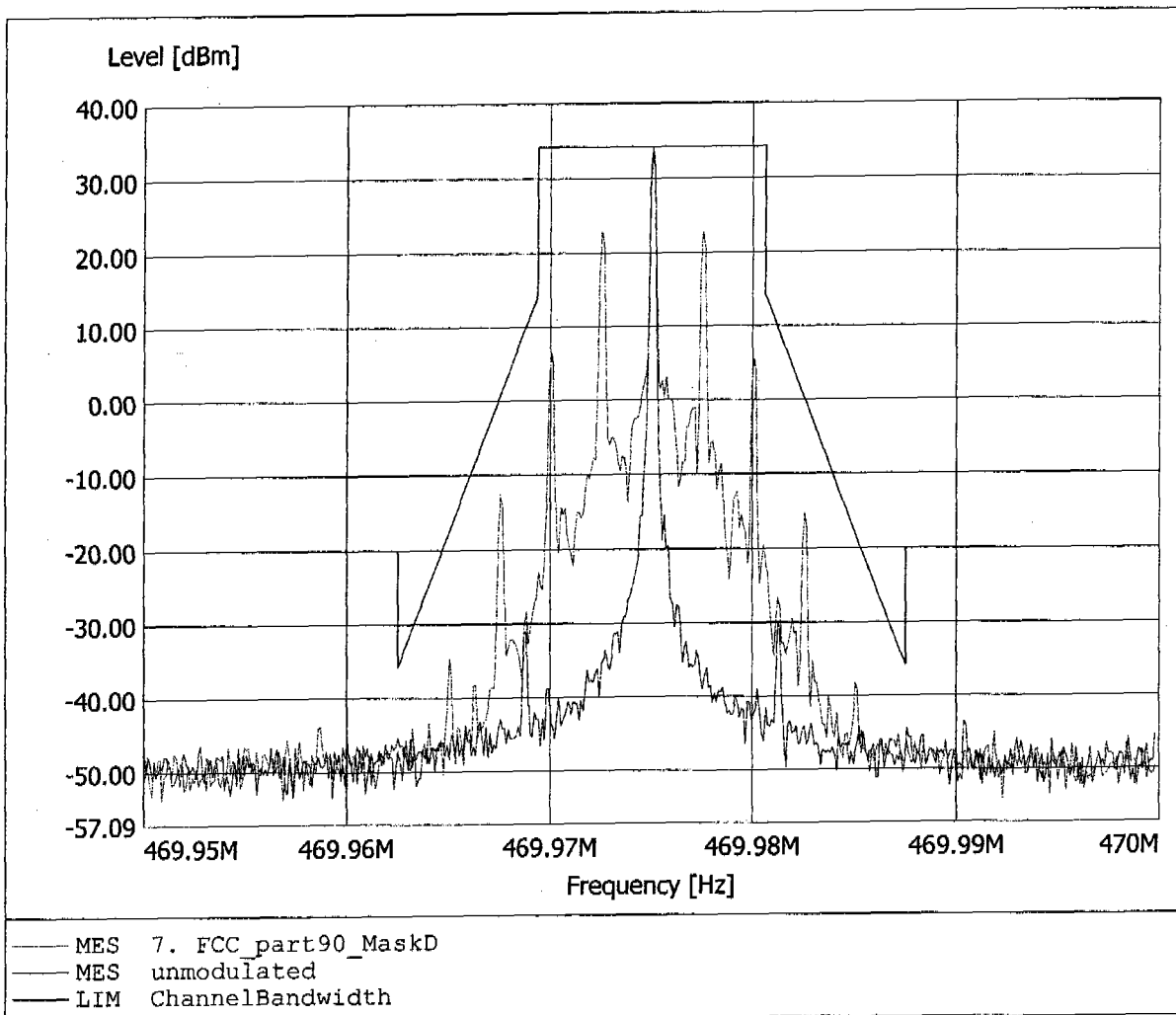
Occupied Bandwidth Emission Mask B
FCC RULES PART 90 §90.210

EUT: FM Handheld Transceiver / 440.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load, Channel spacing 25 kHz
Comment 2: Freq:440.025MHz Pmax:32.02dBm RBW: 100Hz



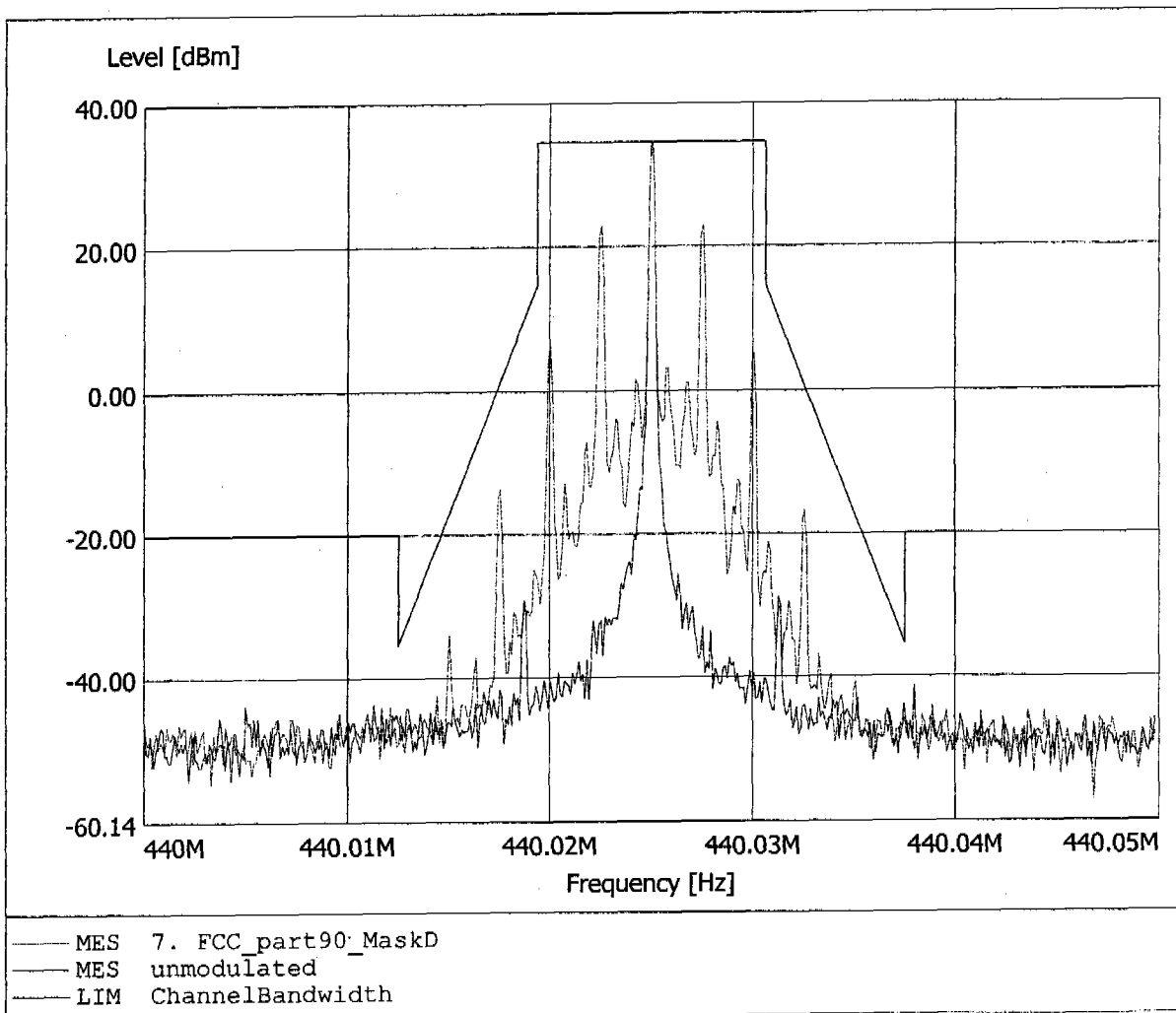
**Occupied Bandwidth Emission Mask D
FCC RULES PART 90 §90.210**

EUT: FM Handheld Transceiver / 469.975 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load, Channel spacing 12.5 kHz
Comment 2: Freq:469.975MHz Pmax:33.41dBm RBW: 100Hz



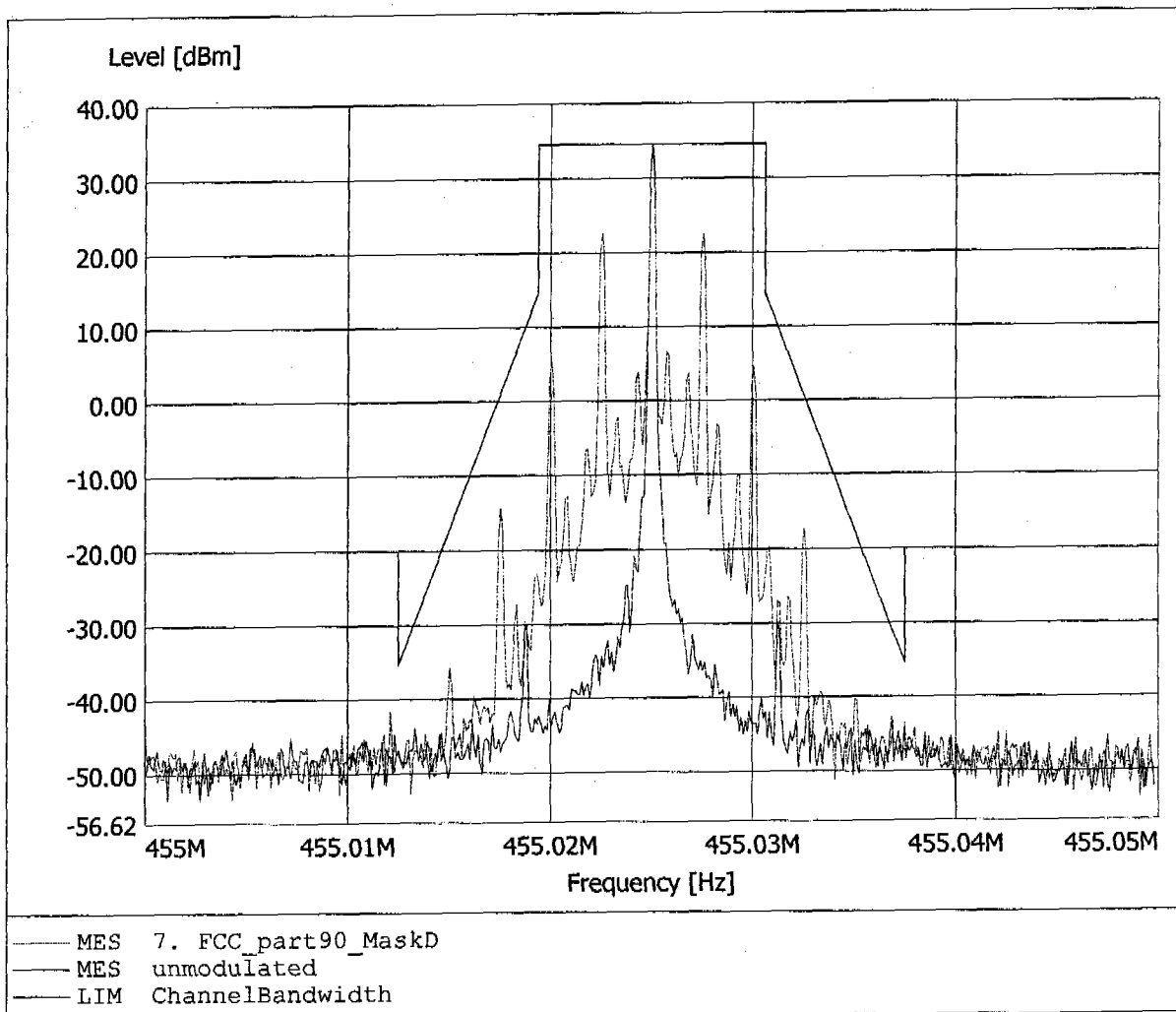
**Occupied Bandwidth Emission Mask D
FCC RULES PART 90 §90.210**

EUT: FM Handheld Transceiver / 440.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load, Channel spacing 12.5 kHz
Comment 2: Freq:440.025MHz Pmax:33.88dBm RBW: 100Hz



Occupied Bandwidth Emission Mask D
FCC RULES PART 90 §90.210

EUT: FM Handheld Transceiver / 455.025 MHz
Model: ATS-400B
Approval Holder: Airtech I & C Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 7.5 V DC
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: mode: Tx
Comment 1: Conducted, 50 Ohm Load, Channel spacing 12.5 kHz
Comment 2: Freq:455.025MHz Pmax:33.86dBm RBW: 100Hz



Appendix J

Frequency stability

No diagrams

Refer to point 3.9



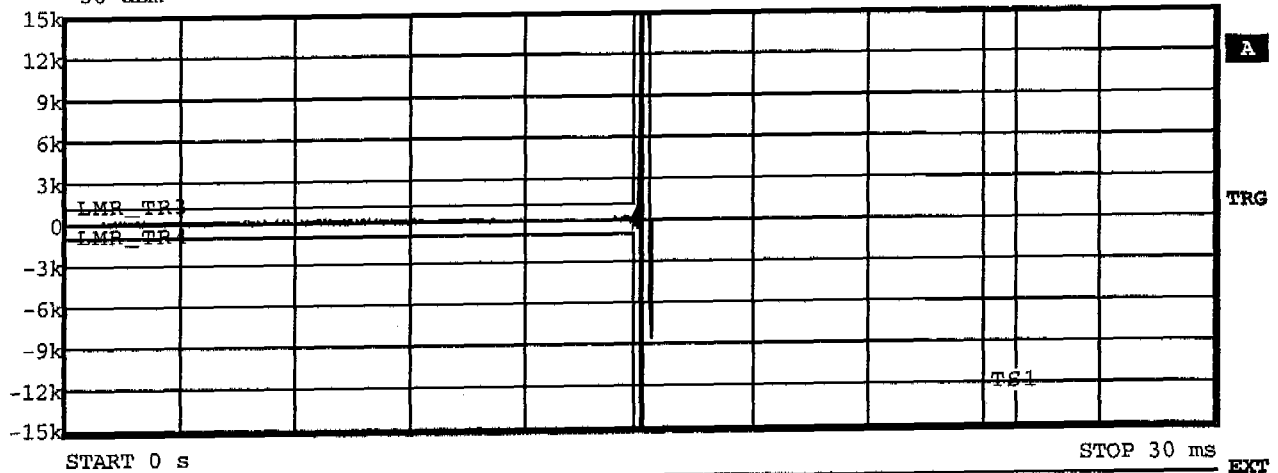
Appendix K

Transient frequency behaviour of the transmitter



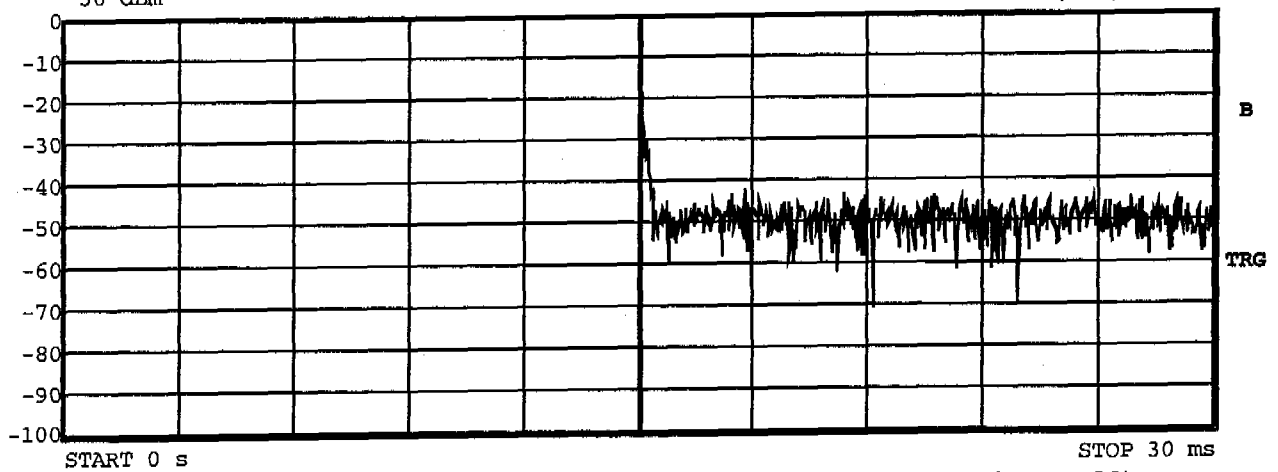
Ref Lvl
30 dBm

CF 455.025 MHz Real Time OFF
DEMOD BW: 30 kHz AF-Signal
FM [Hz]



Ref Lvl
30 dBm

CF 455.025 MHz Real Time OFF
DEMOD BW: 30 kHz AF-Signal
AM [dBm]

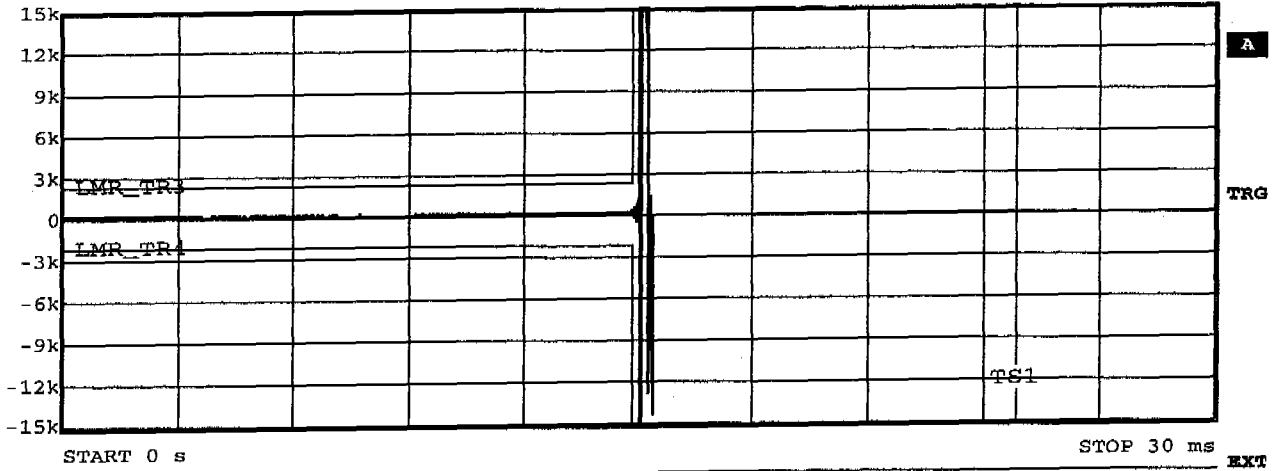


Title: Transient frequency behaviour of the transmitter (switch off)
Comment A: FM Handheld Transceiver ATS-400B (12.5 kHz channel spacing)
Date: 4.SEP.2003 12:53:22



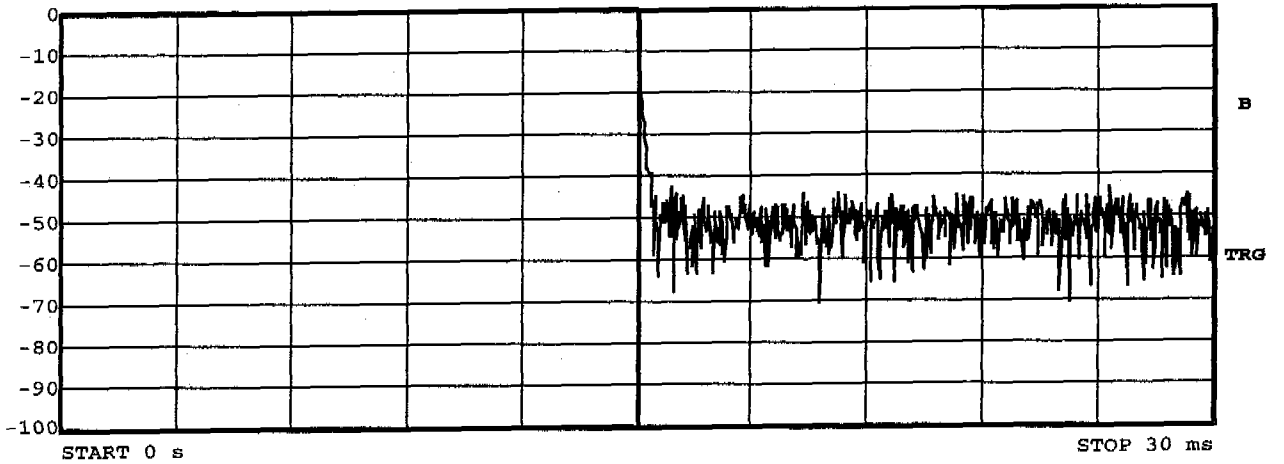
Ref Lvl
30 dBm

CF 455.025 MHz Real Time OFF
DEMOD BW: 30 kHz AF-Signal
FM [Hz]



Ref Lvl
30 dBm

CF 455.025 MHz Real Time OFF
DEMOD BW: 30 kHz AF-Signal
AM [dBm]

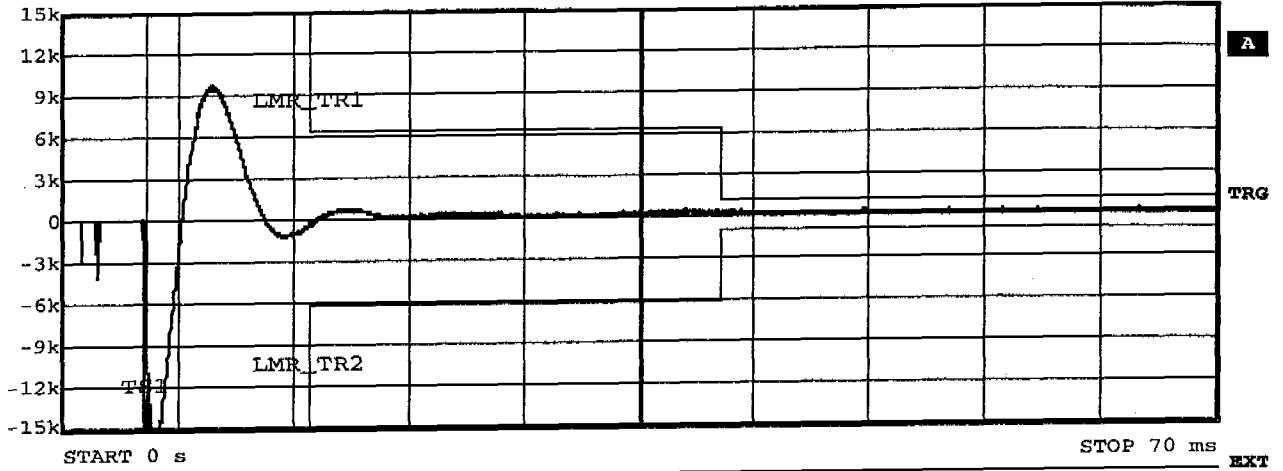


Title: Transient frequency behaviour of the transmitter (switch off)
Comment A: FM Handheld Transceiver ATS-400B (25 kHz channel spacing)
Date: 4.SEP.2003 12:56:25



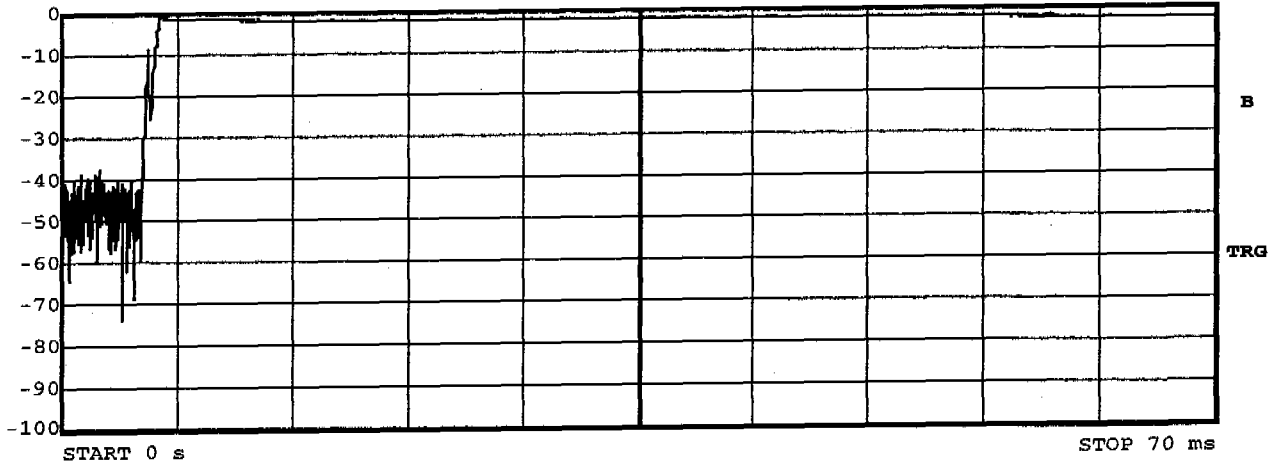
Ref Lvl
30 dBm

CF 455.025 MHz Real Time OFF
DEMOD BW: 30 kHz AF-Signal
FM [Hz]



Ref Lvl
30 dBm

CF 455.025 MHz Real Time OFF
DEMOD BW: 30 kHz AF-Signal
AM [dBm]

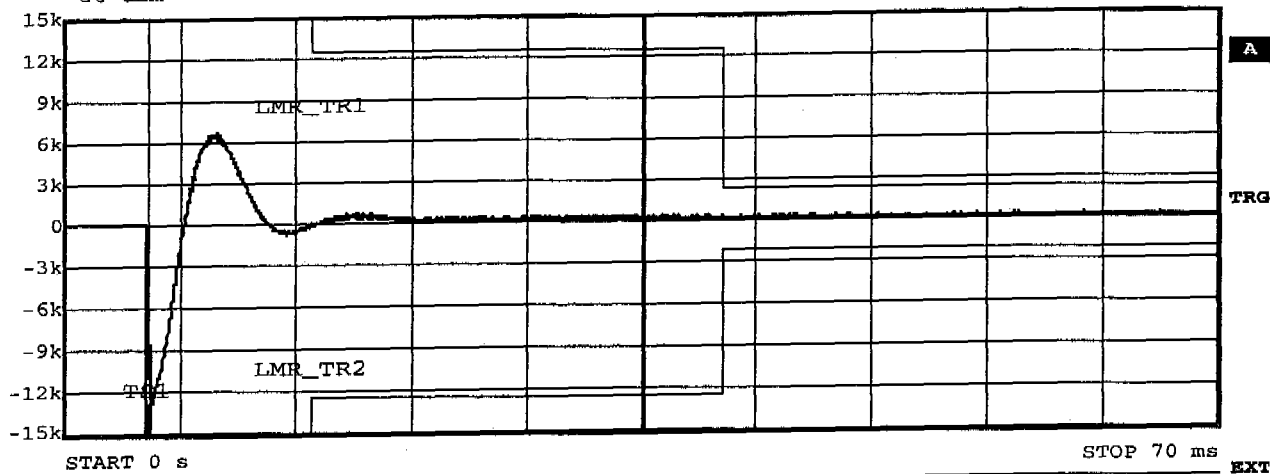


Title: Transient frequency behaviour of the transmitter (switch on)
Comment A: FM Handheld Transceiver ATIS-400B (12.5 kHz channel spacing)
Date: 4.SEP.2003 12:43:43



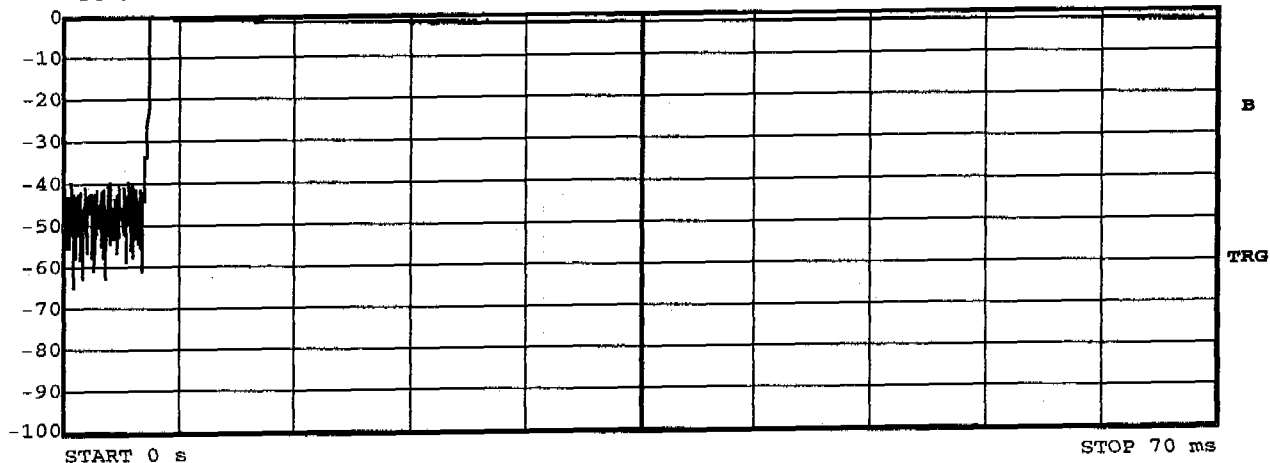
Ref Lvl
30 dBm

CF 455.025 MHz Real Time OFF
DEMOD BW: 30 kHz AF-Signal
FM [Hz]



Ref Lvl
30 dBm

CF 455.025 MHz Real Time OFF
DEMOD BW: 30 kHz AF-Signal
AM [dBm]



Title: Transient frequency behaviour of the transmitter (switch on)
Comment A: FM Handheld Transceiver ATS-400B (25 kHz channel spacing)
Date: 4.SEP.2003 12:48:06

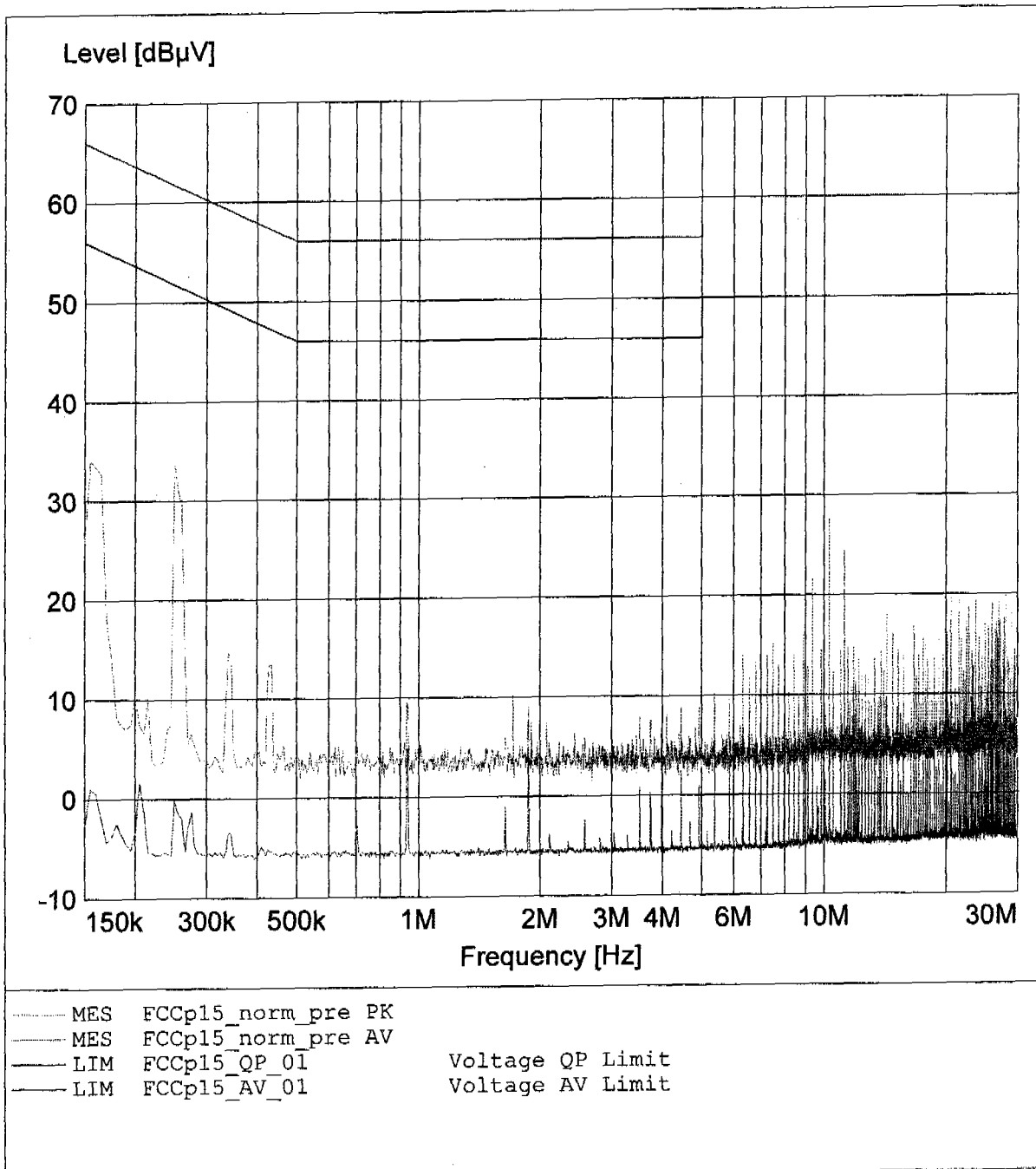


Appendix L

Spurious emissions related to AC power line

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

EUT: FM Handheld Transceiver
Manufacturer: Airtech I & C Co., Ltd.
Operating Condition: Unom: 12VDC (AC/DC adaptor), Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: ATS-400B mode: charging
Start of Test:



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

EUT: FM Handheld Transceiver
Manufacturer: Airtech I & C Co., Ltd.
Operating Condition: Unom: 12VDC (AC/DC adaptor), Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: ATS-400B mode: charging
Start of Test:

