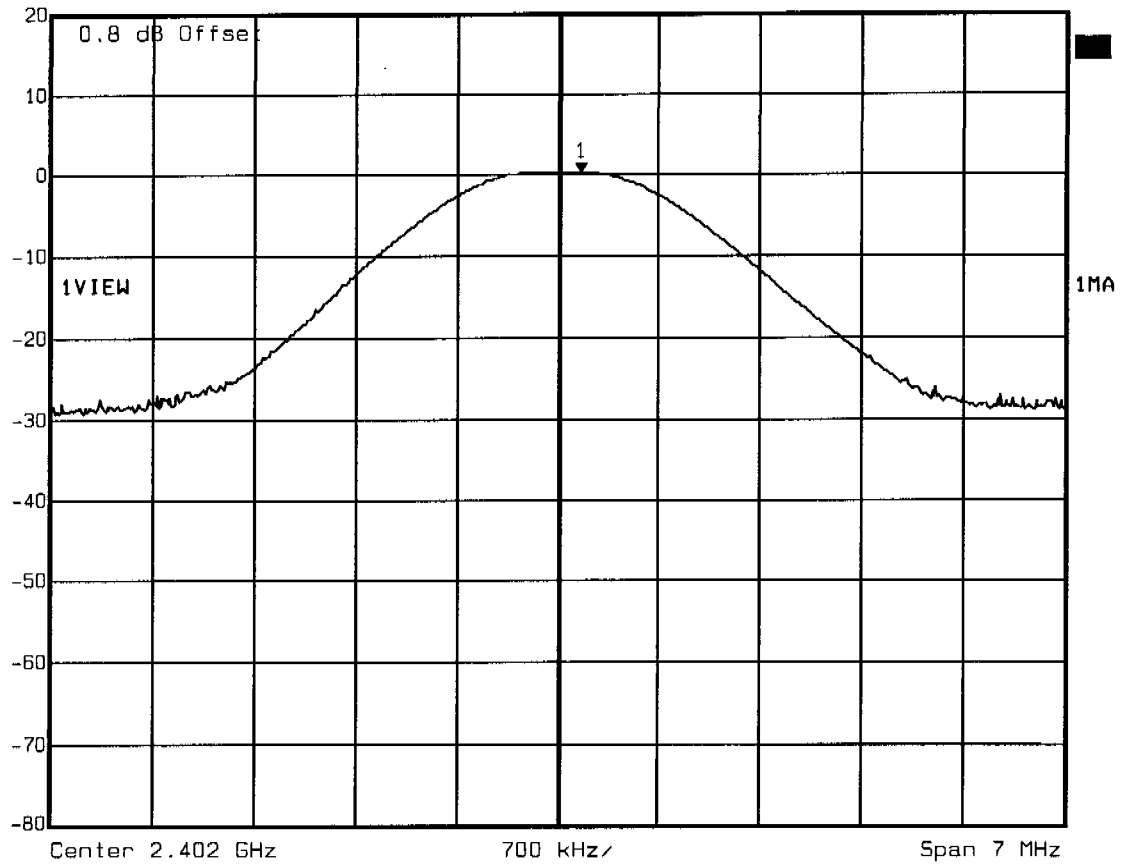


## Appendix B

Peak Output Power



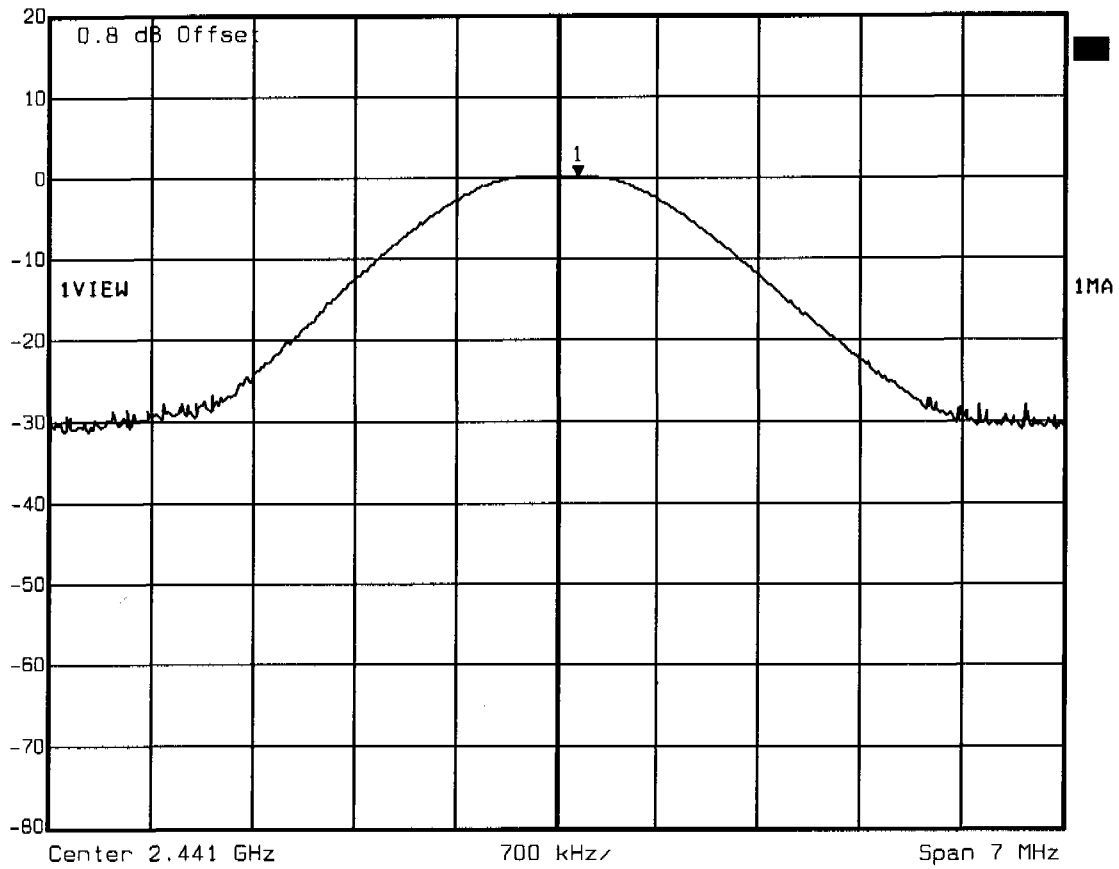
Marker 1 [T1] RBW 1 MHz RF Att 40 dB  
Ref Lvl 0.18 dBm VBW 1 MHz  
20 dBm 2.40216132 GHz SWT 5 ms Unit dBm



Title: Peak Output Power conducted Ch.: 0  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 13:50:36



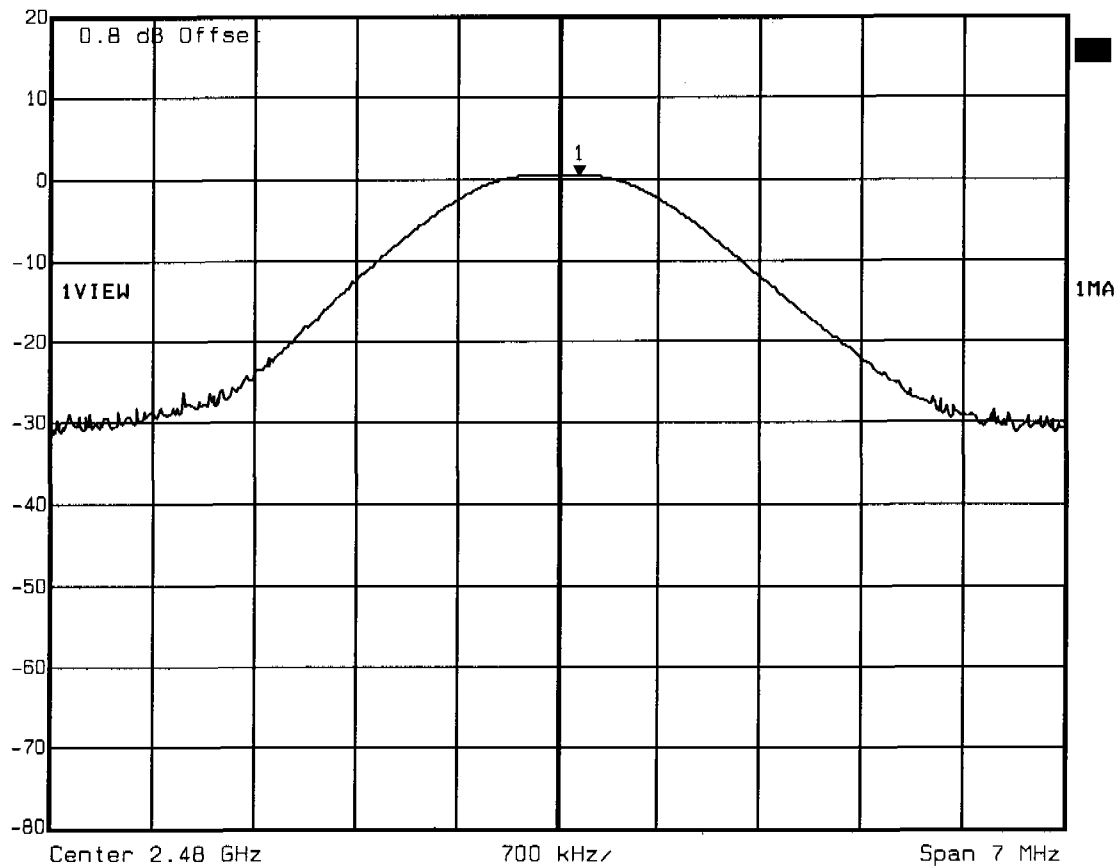
Marker 1 [T1] RBW 1 MHz RF Att 40 dB  
Ref Lvl 0.20 dBm VBW 1 MHz  
20 dBm 2.44114729 GHz SWT 5 ms Unit dBm



Title: Peak Output Power conducted Ch.: 39  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 13:51:44



Marker 1 [T1] RBW 1 MHz RF Att 40 dB  
Ref Lvl 0.40 dBm VBW 1 MHz  
20 dBm 2.48014729 GHz SWT 5 ms Unit dBm

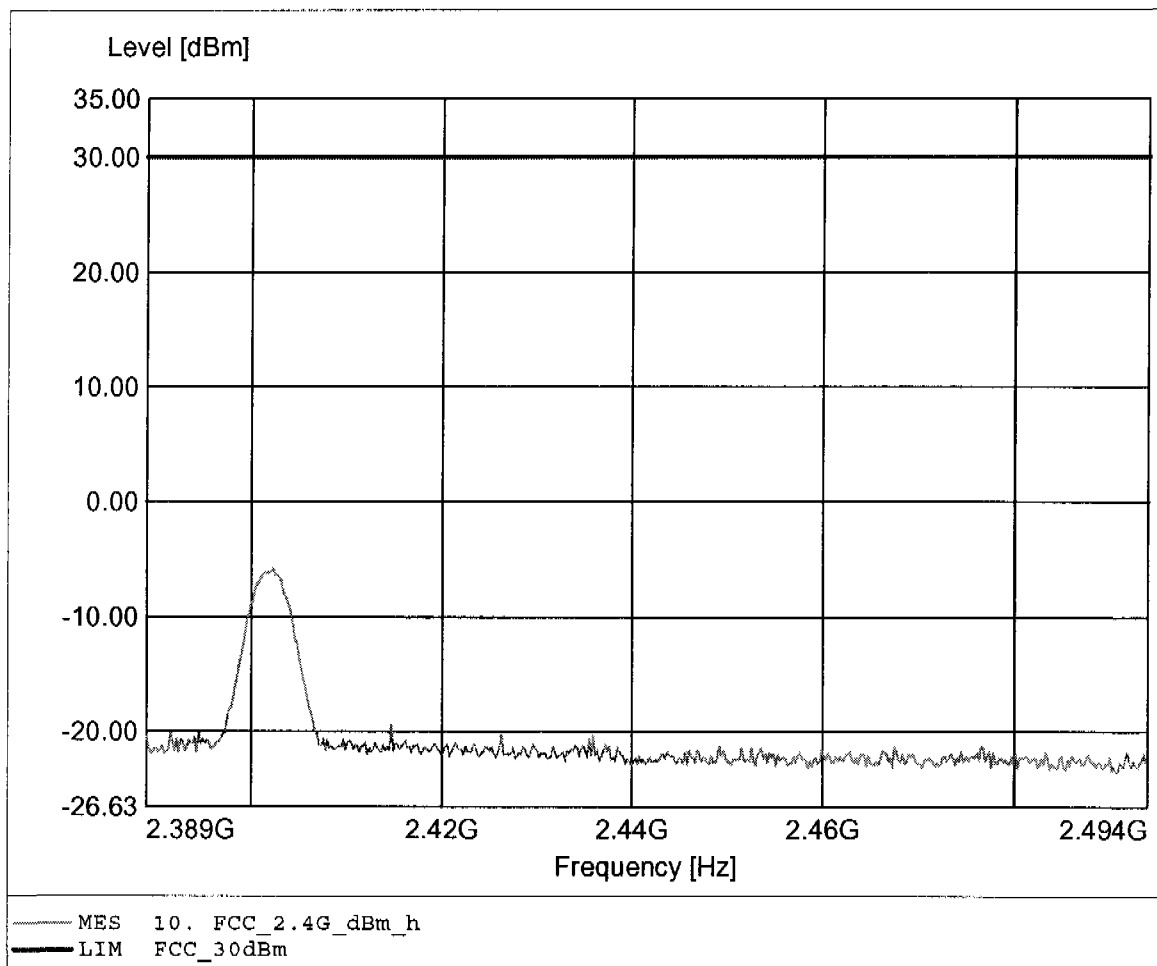


Title: Peak Output Power conducted Ch.: 78  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 13:53:00

# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

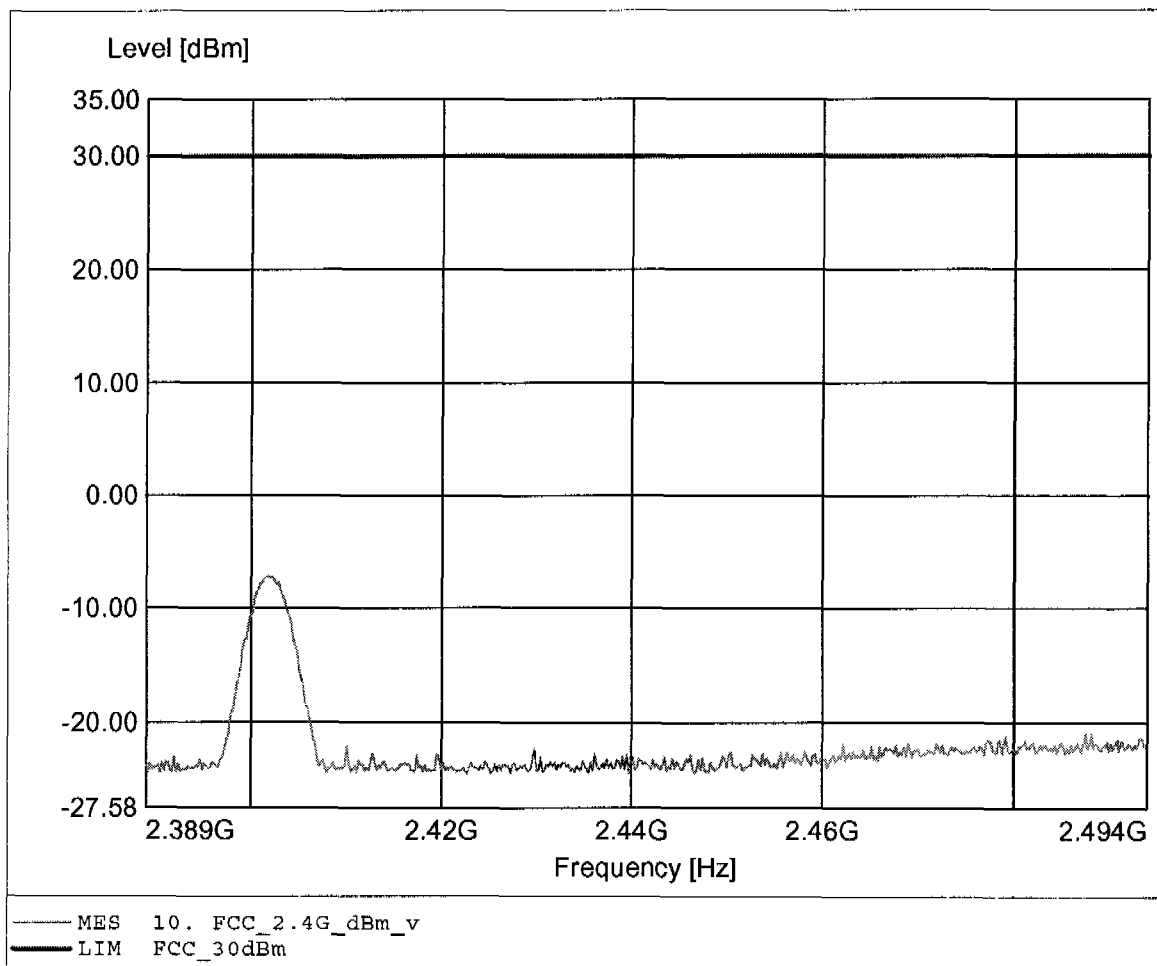
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.402GHz, Pmax: -5.77dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

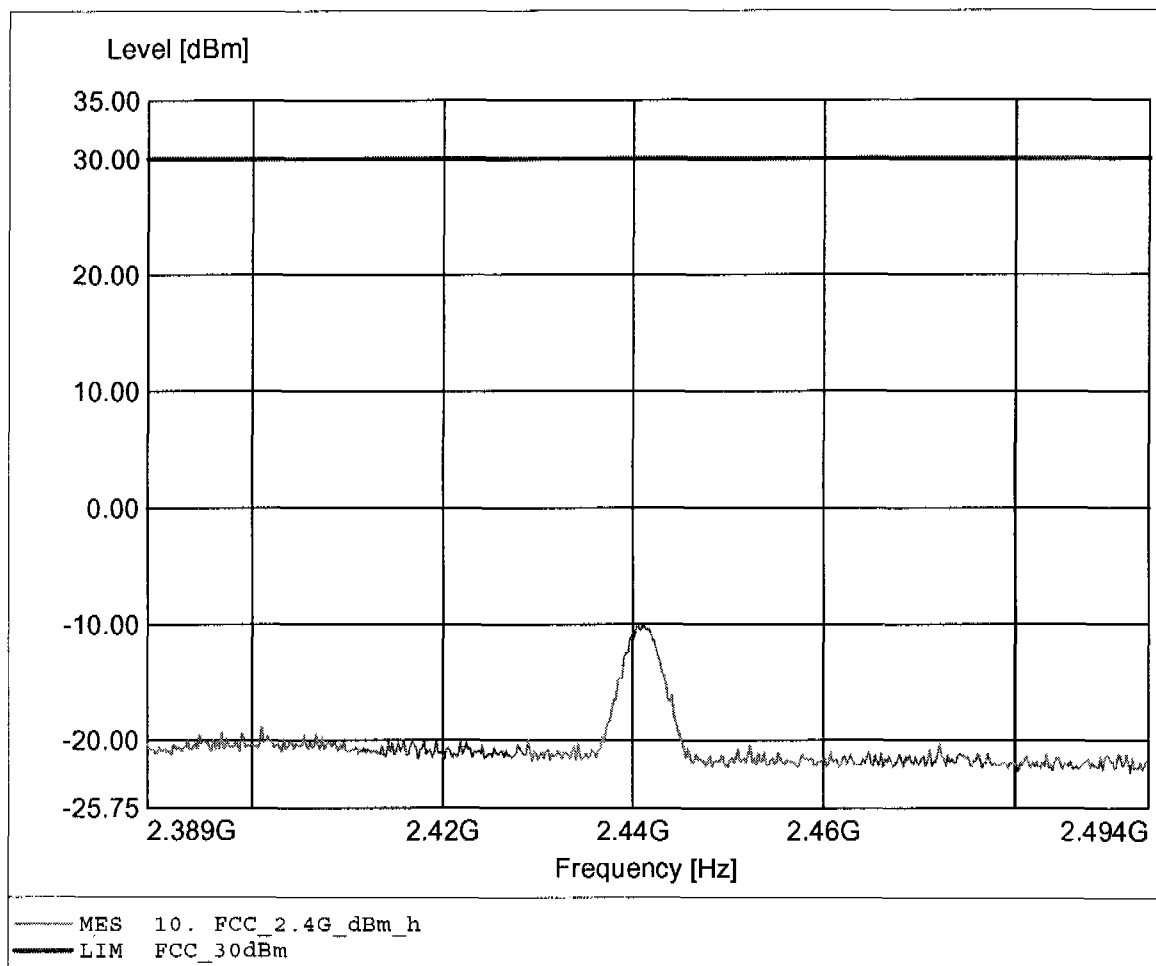
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.402GHz, Pmax: -7.18dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

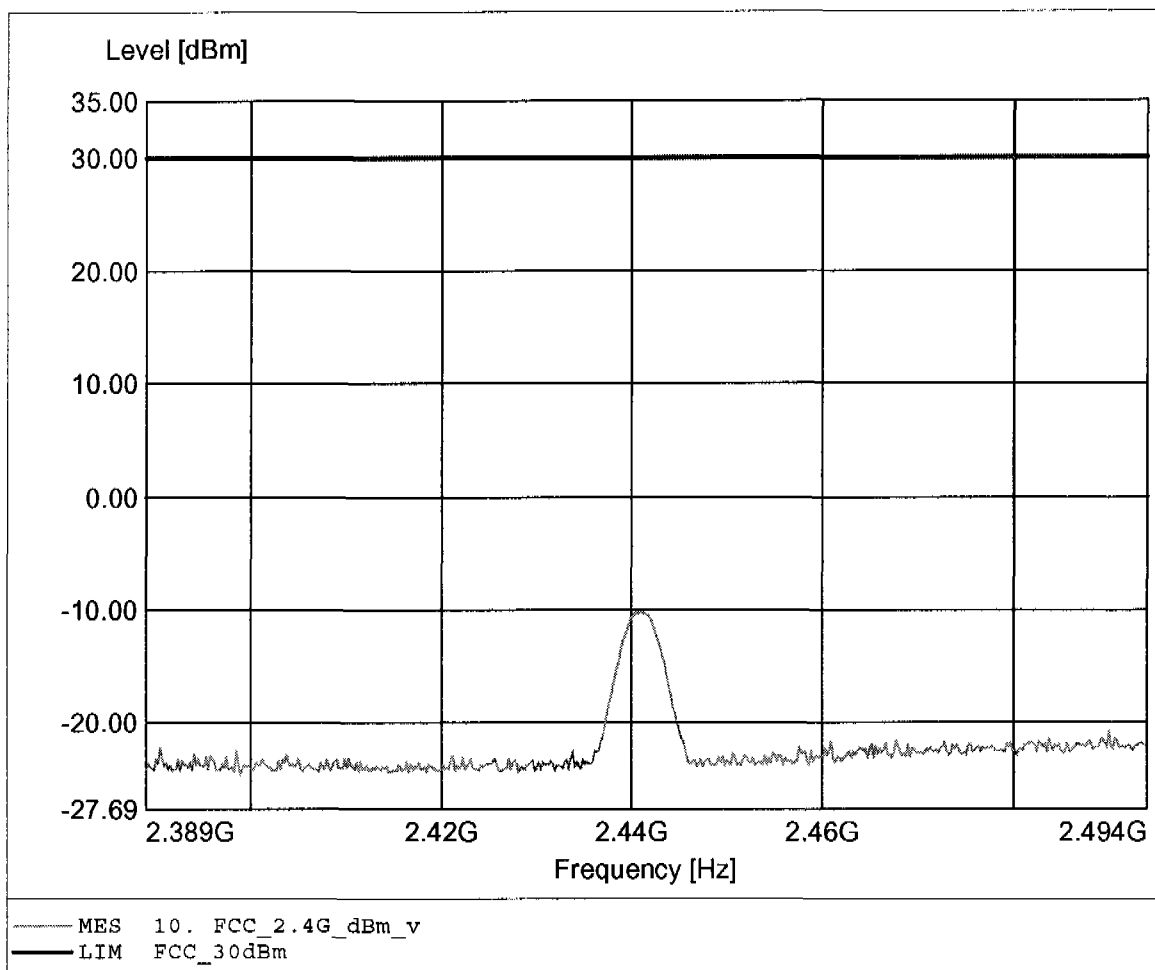
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.441GHz, Pmax: -10.06dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

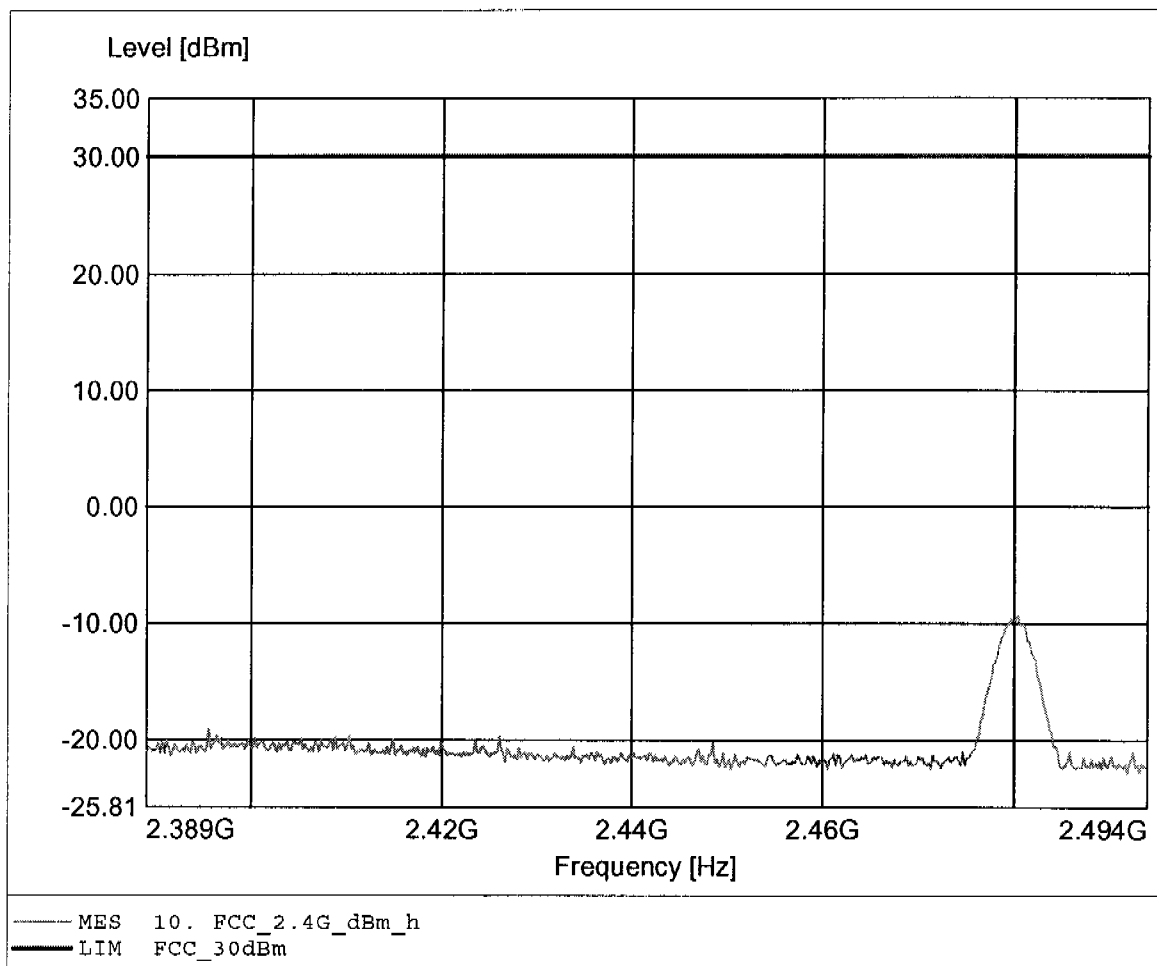
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.441GHz, Pmax: -10.13dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

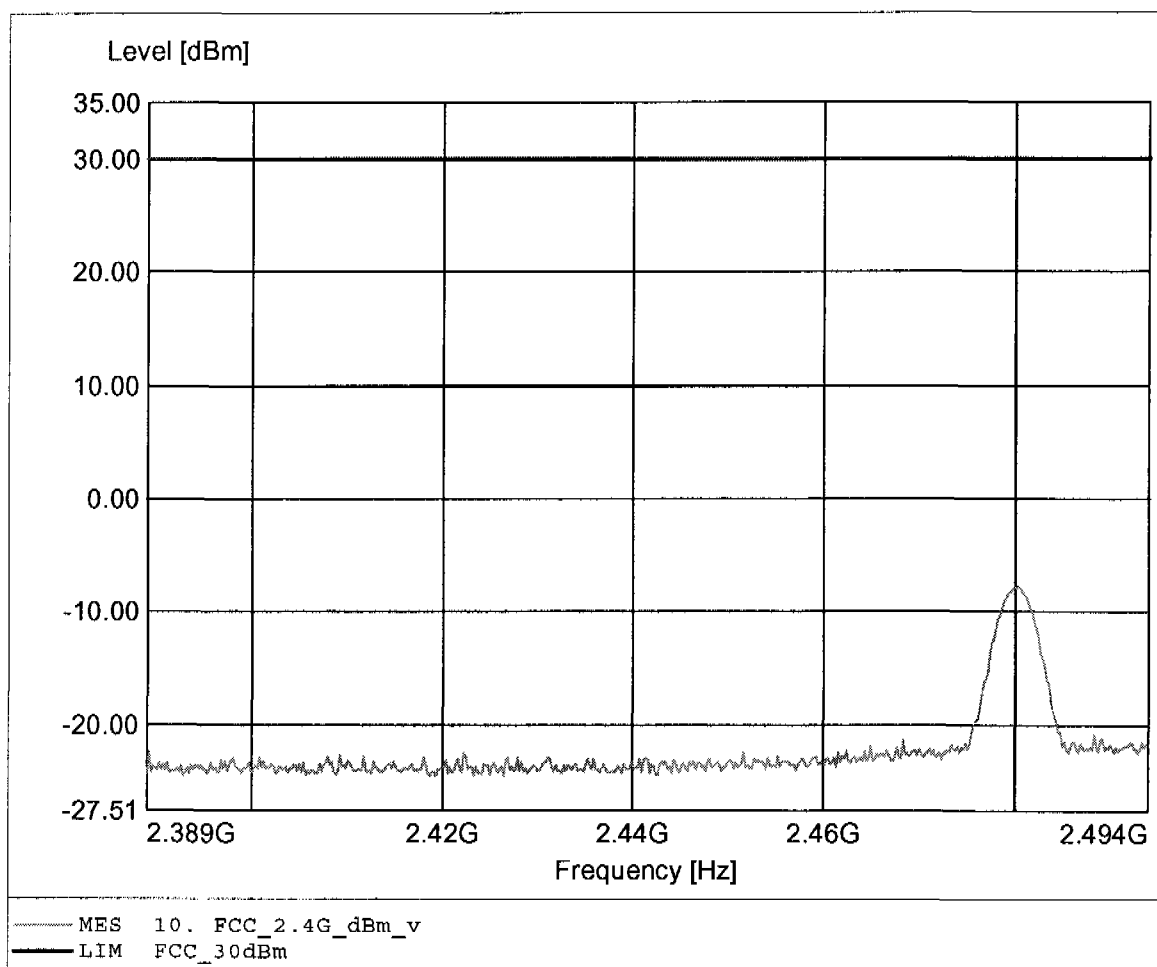
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.480GHz, Pmax: -9.30dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

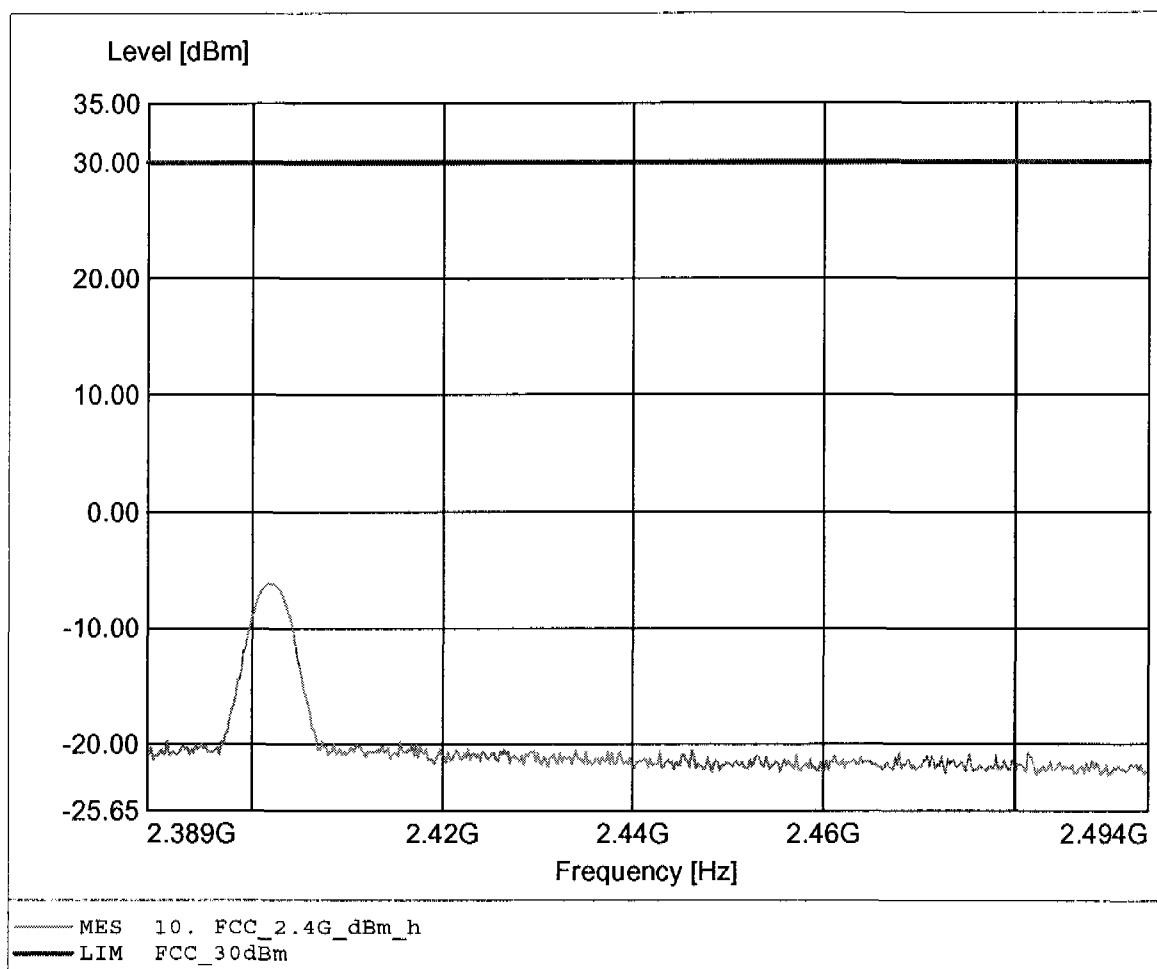
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.480GHz, Pmax: -7.76dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

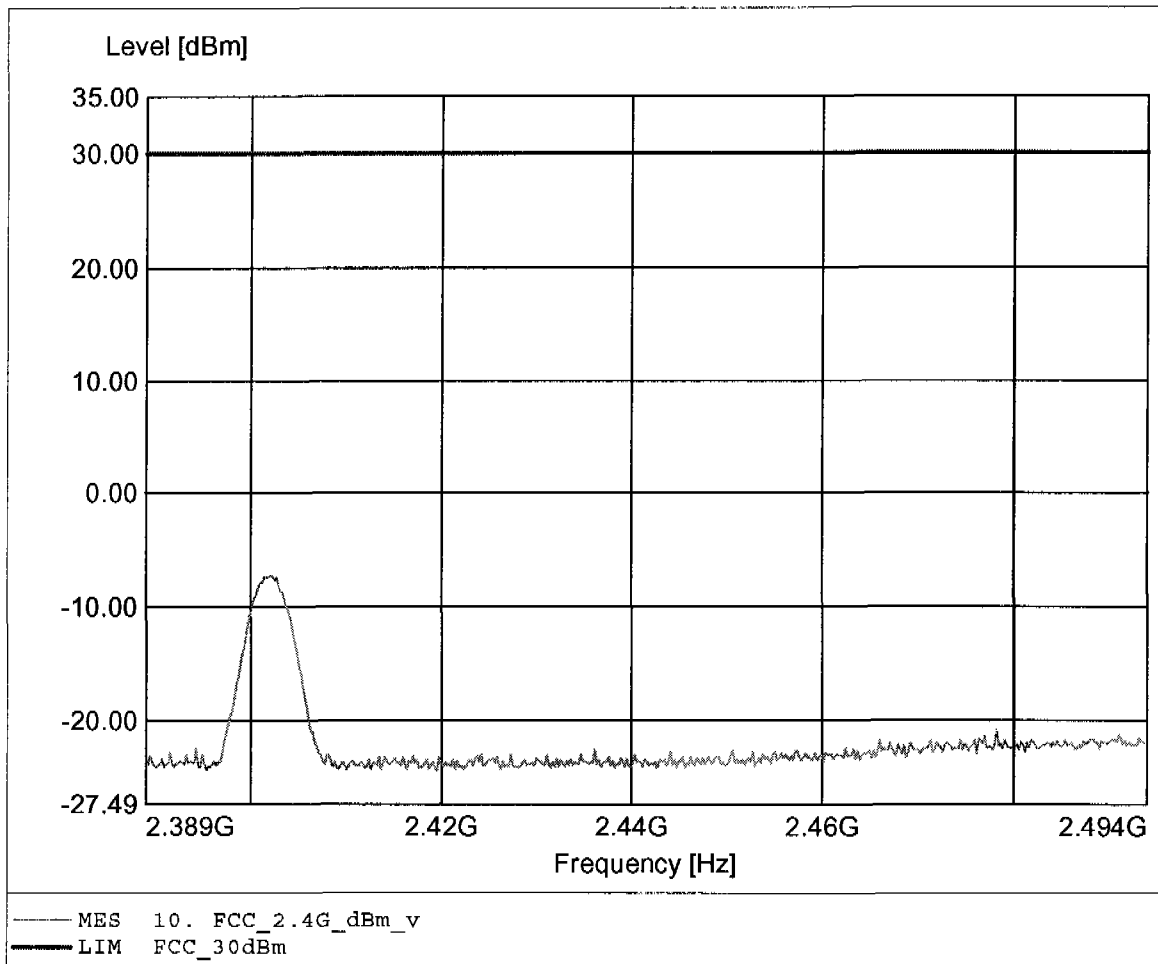
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V-15% AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.402GHz, Pmax: -6.16dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

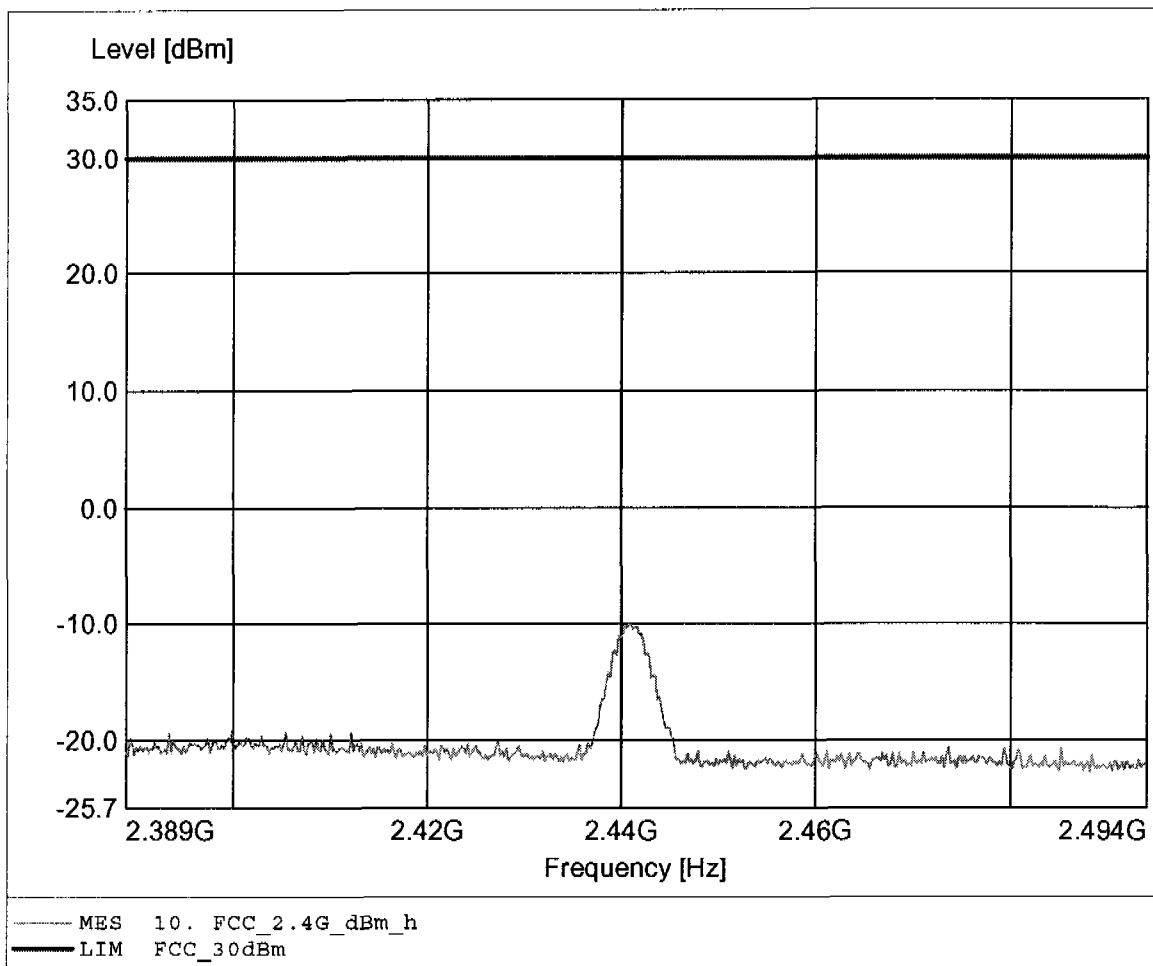
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V-15% AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.402GHz, Pmax: -7.25dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

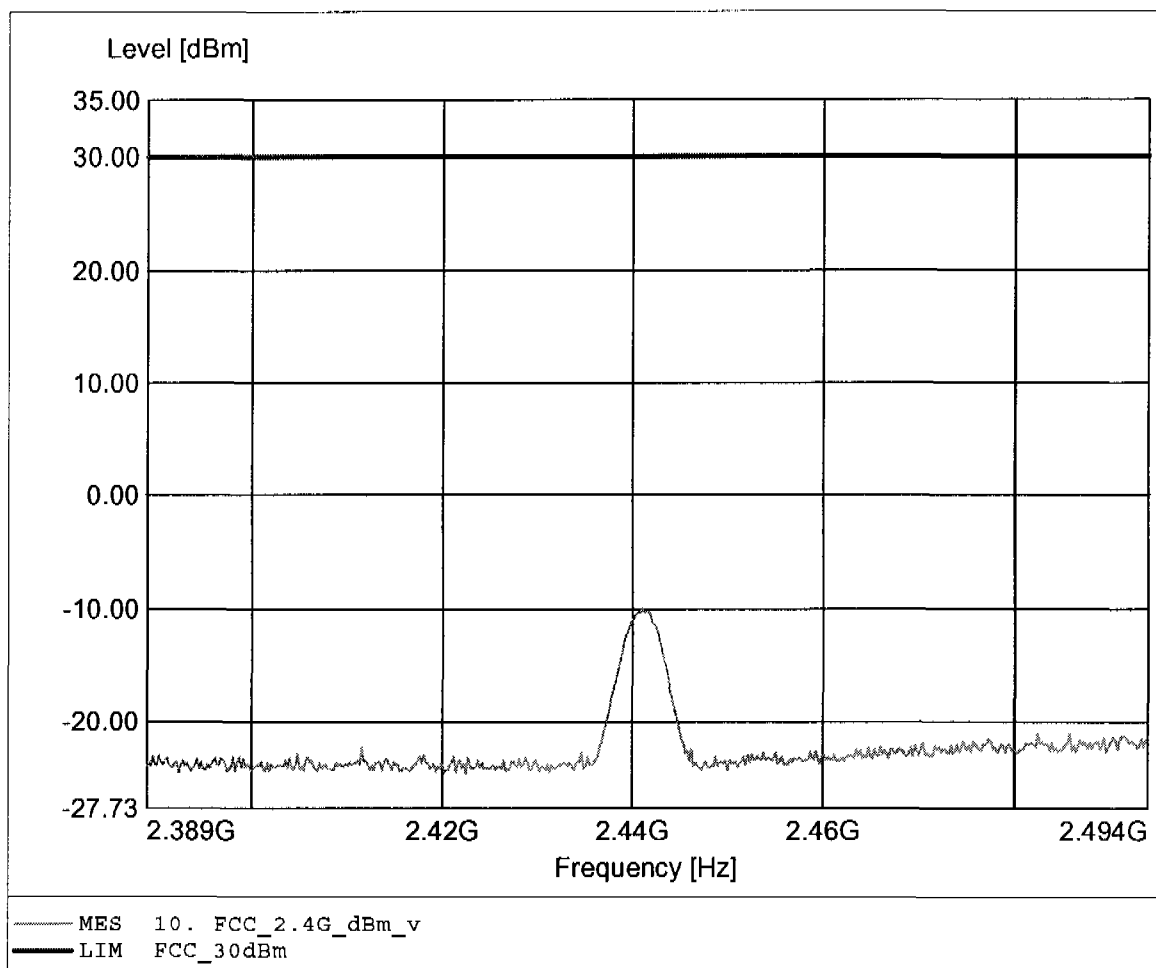
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V-15% AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.441GHz, Pmax: -10.04dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

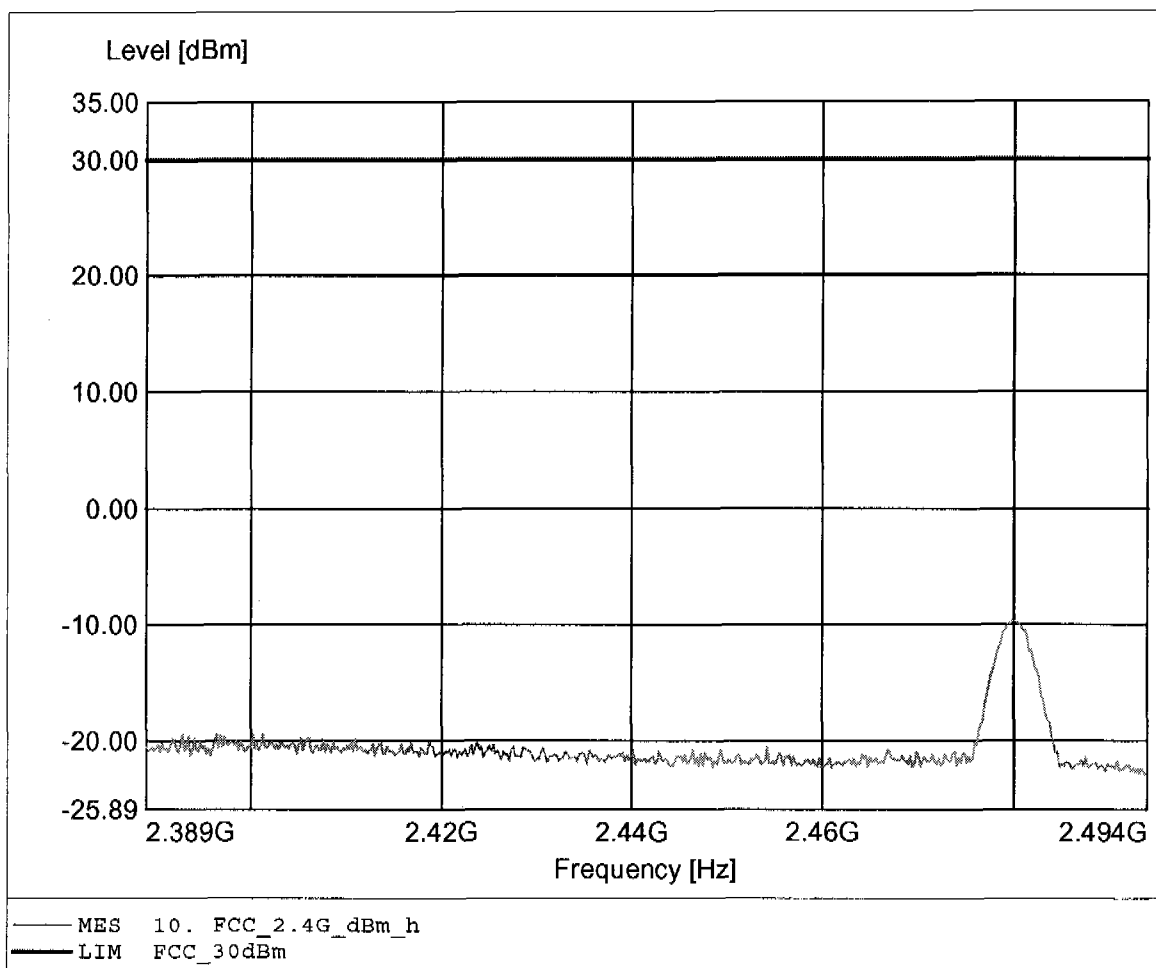
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V-15% AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.441GHz, Pmax: -10.00dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

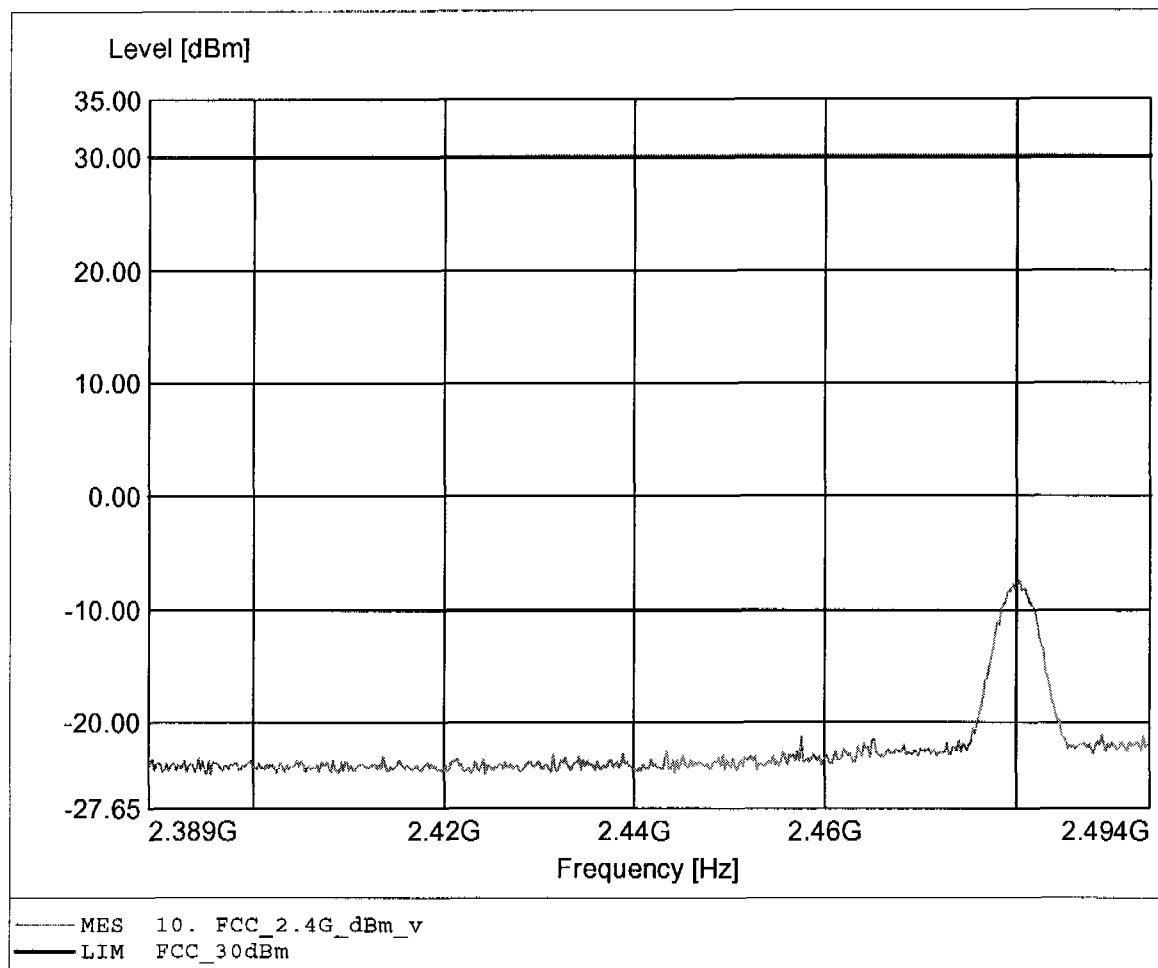
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V-15% AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.480GHz, Pmax: -9.59dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

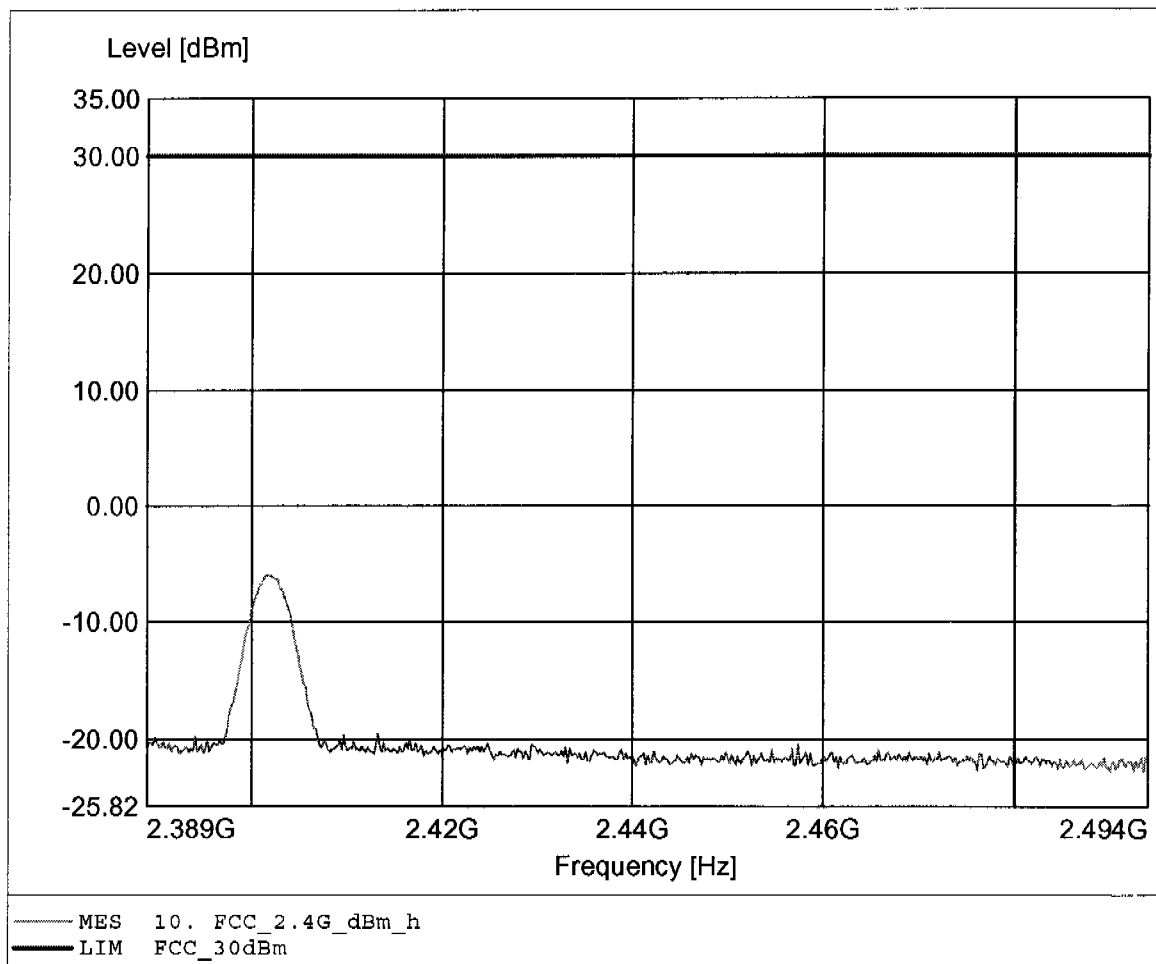
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V-15% AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.480GHz, Pmax: -7.42dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

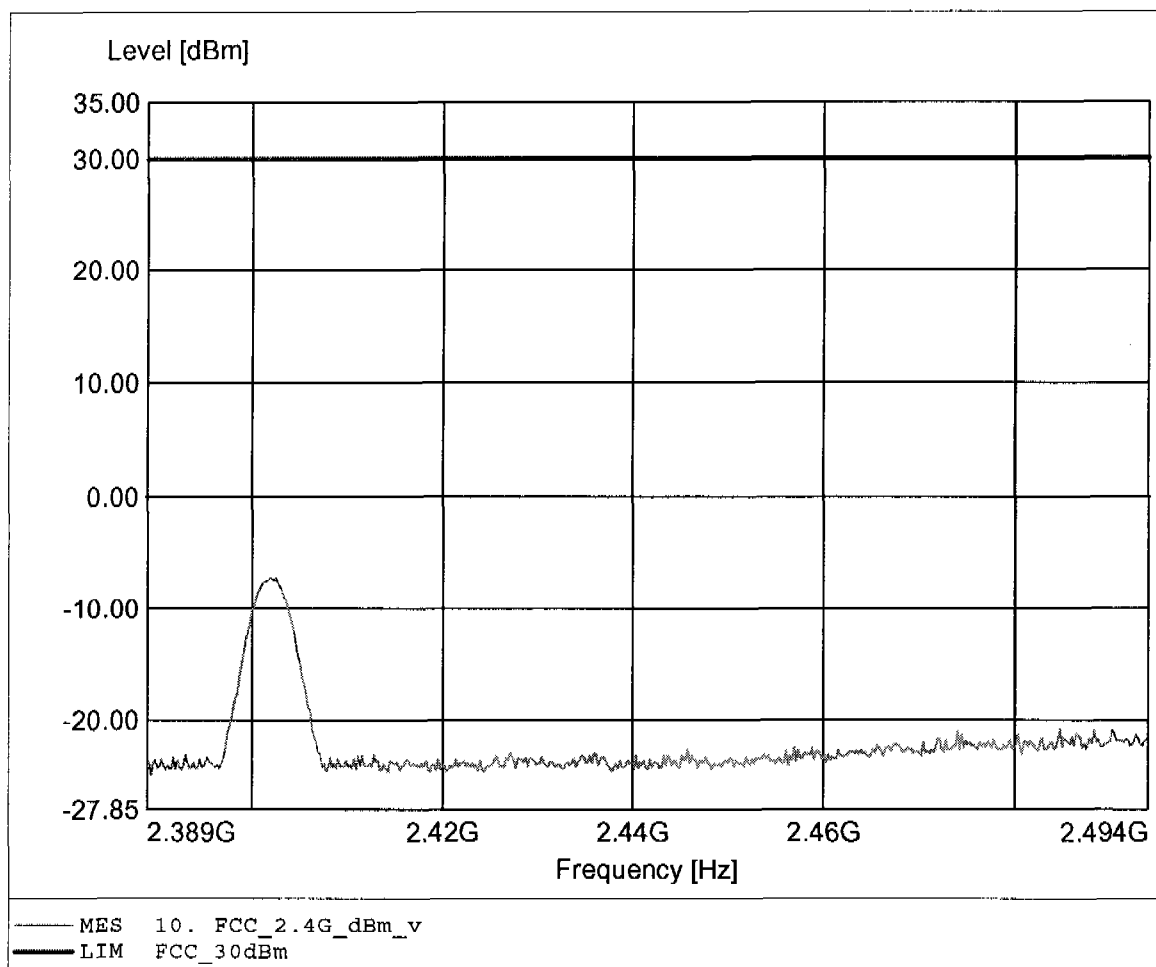
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V+15% AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.402GHz, Pmax: -5.96dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

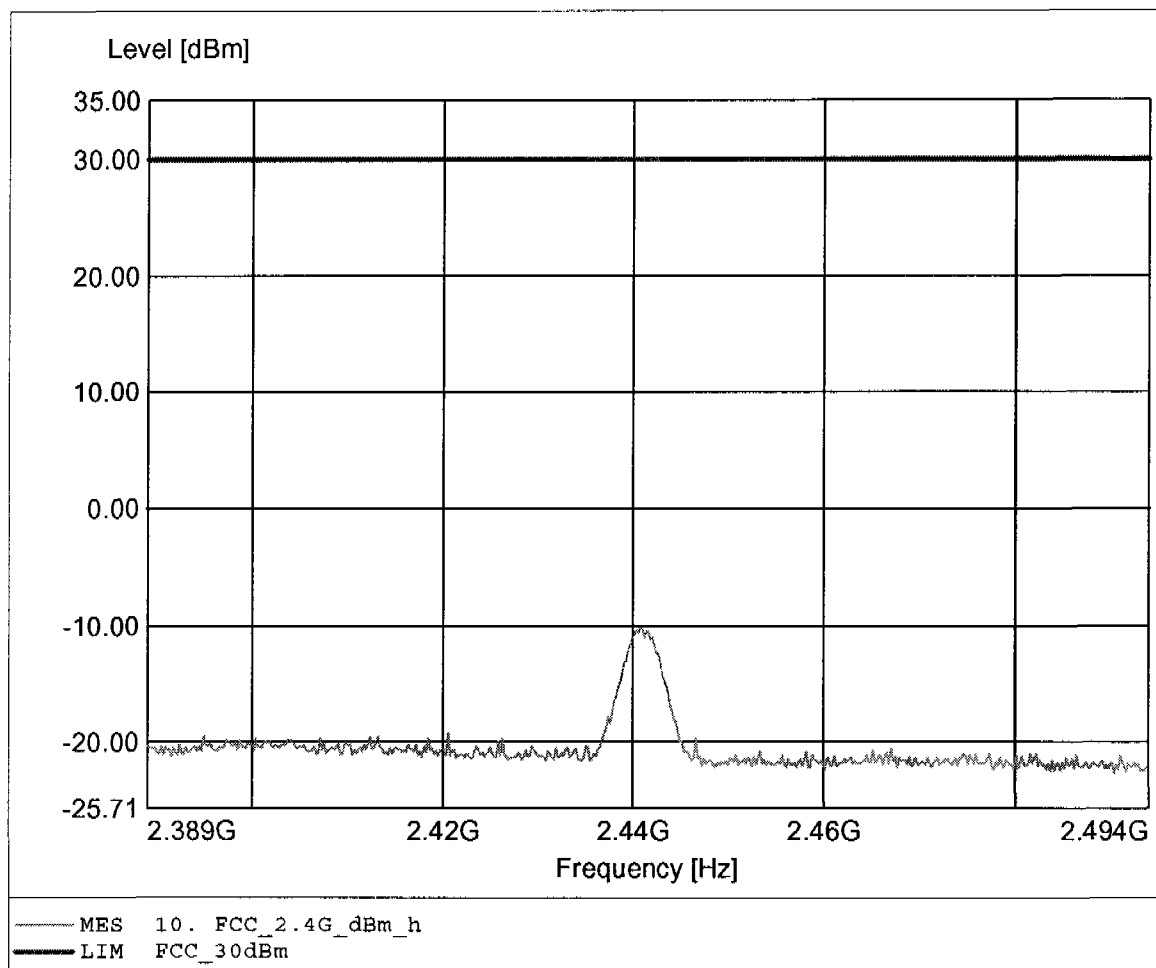
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V+15 % AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.402GHz, Pmax: -7.23dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

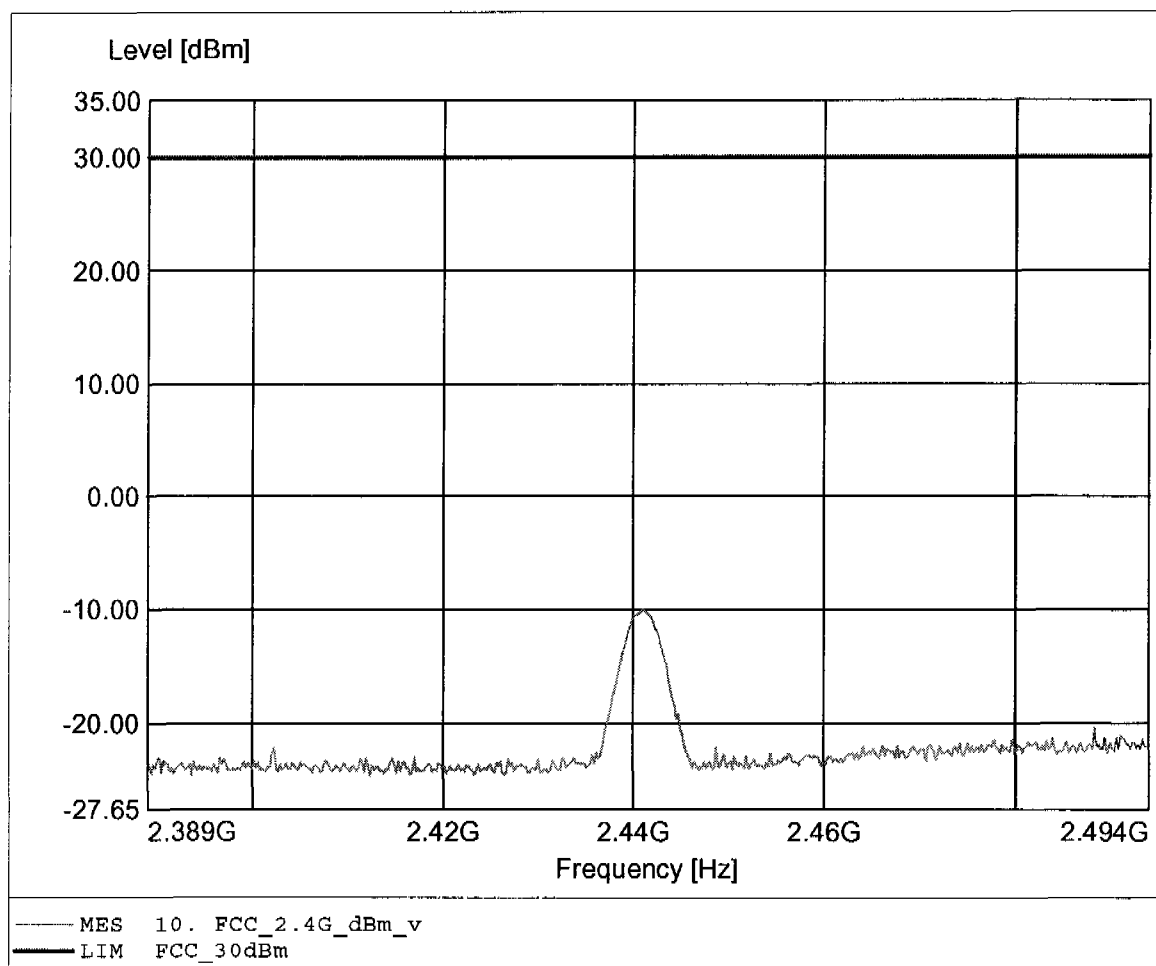
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V+15% AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.441GHz, Pmax: -10.09dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

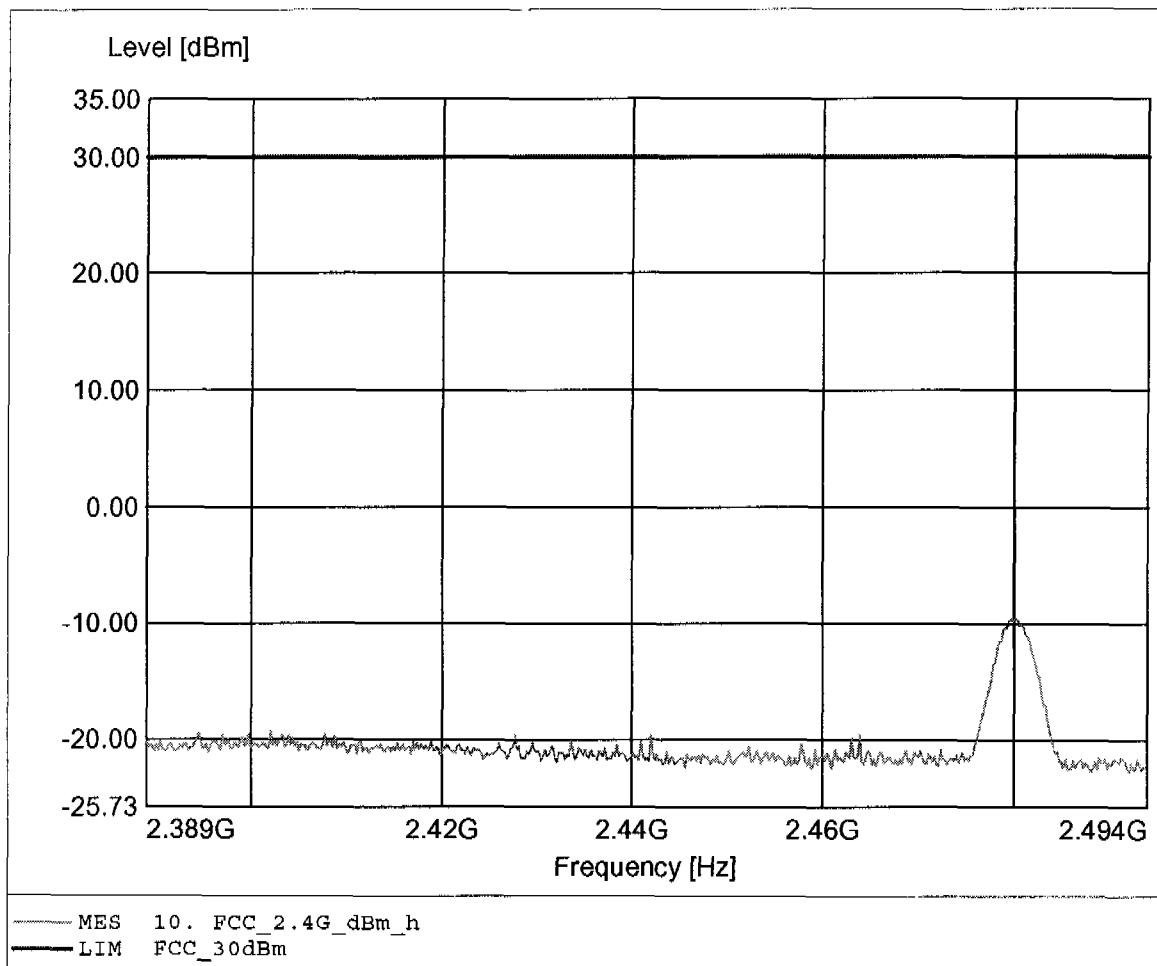
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V+15% AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.441GHz, Pmax: -9.99dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

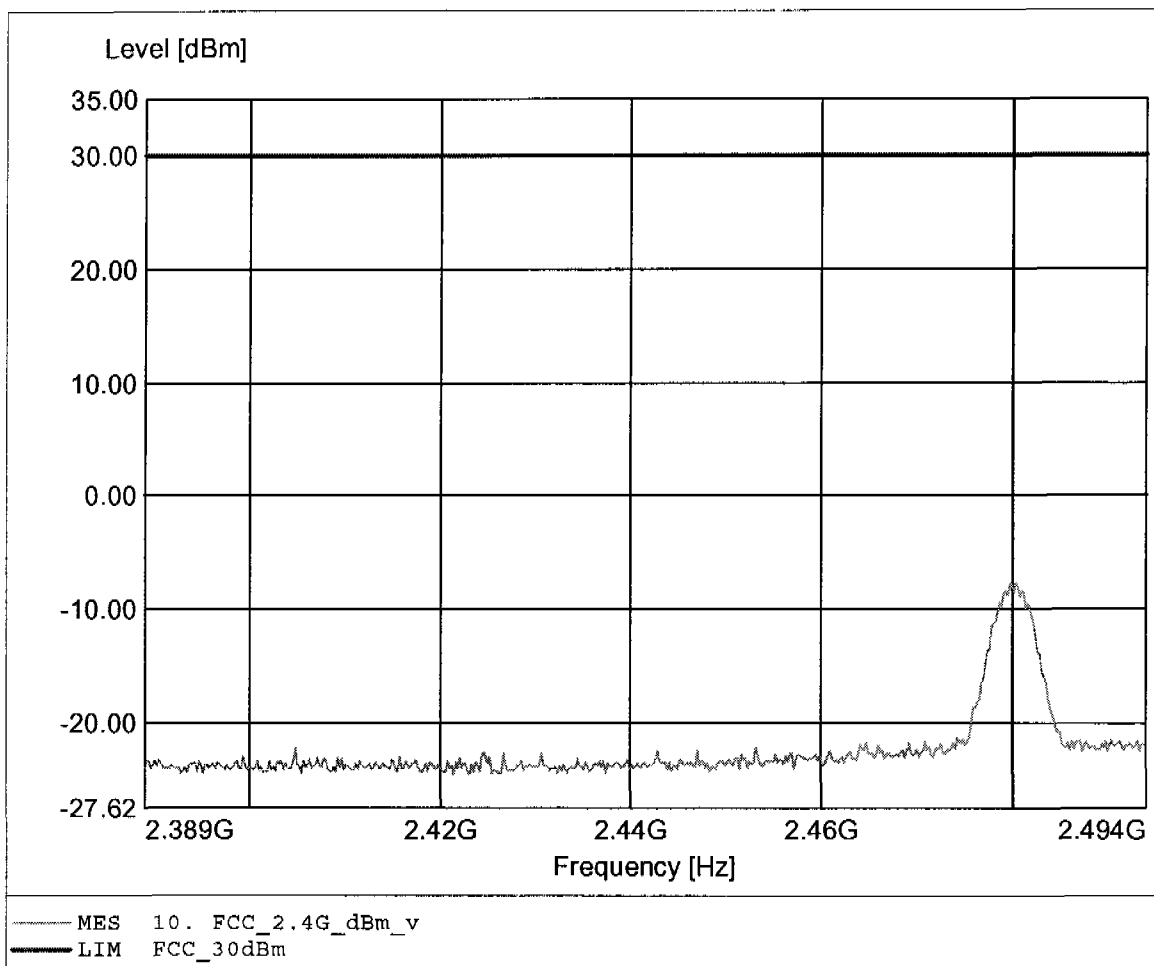
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V+15% AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.480GHz, Pmax: -9.62dBm, RBW: 5MHz



# Carrier power (dBm)

## FCC RULES PART 15, SUBPART C

Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V+15% AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.480GHz, Pmax: -7.81dBm, RBW: 5MHz



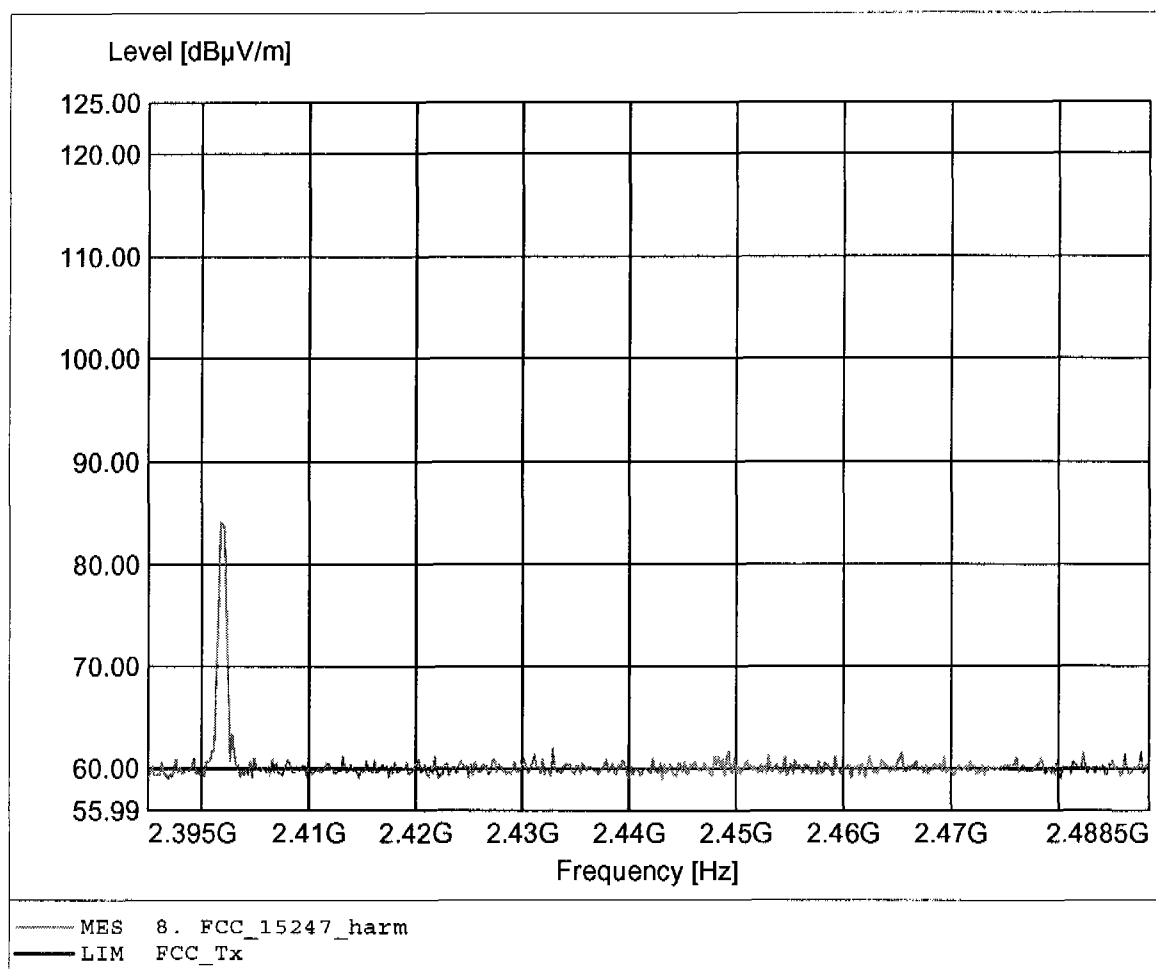
## Appendix C

Spurious Emissions radiated - Transmitter operating

# Carrier power (Field Strength)

## FCC RULES PART 15, SUBPART C

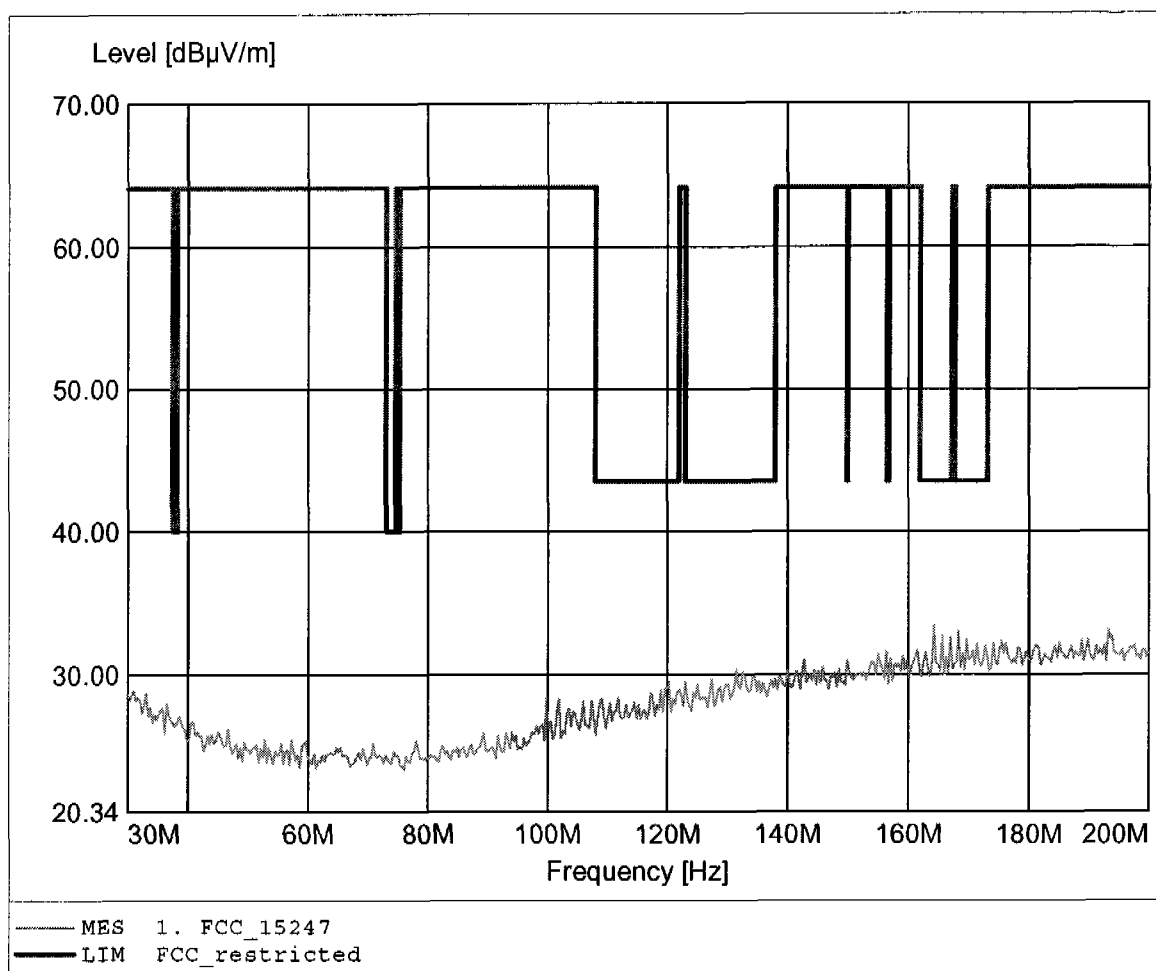
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.402GHz, Emax: 84.13dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

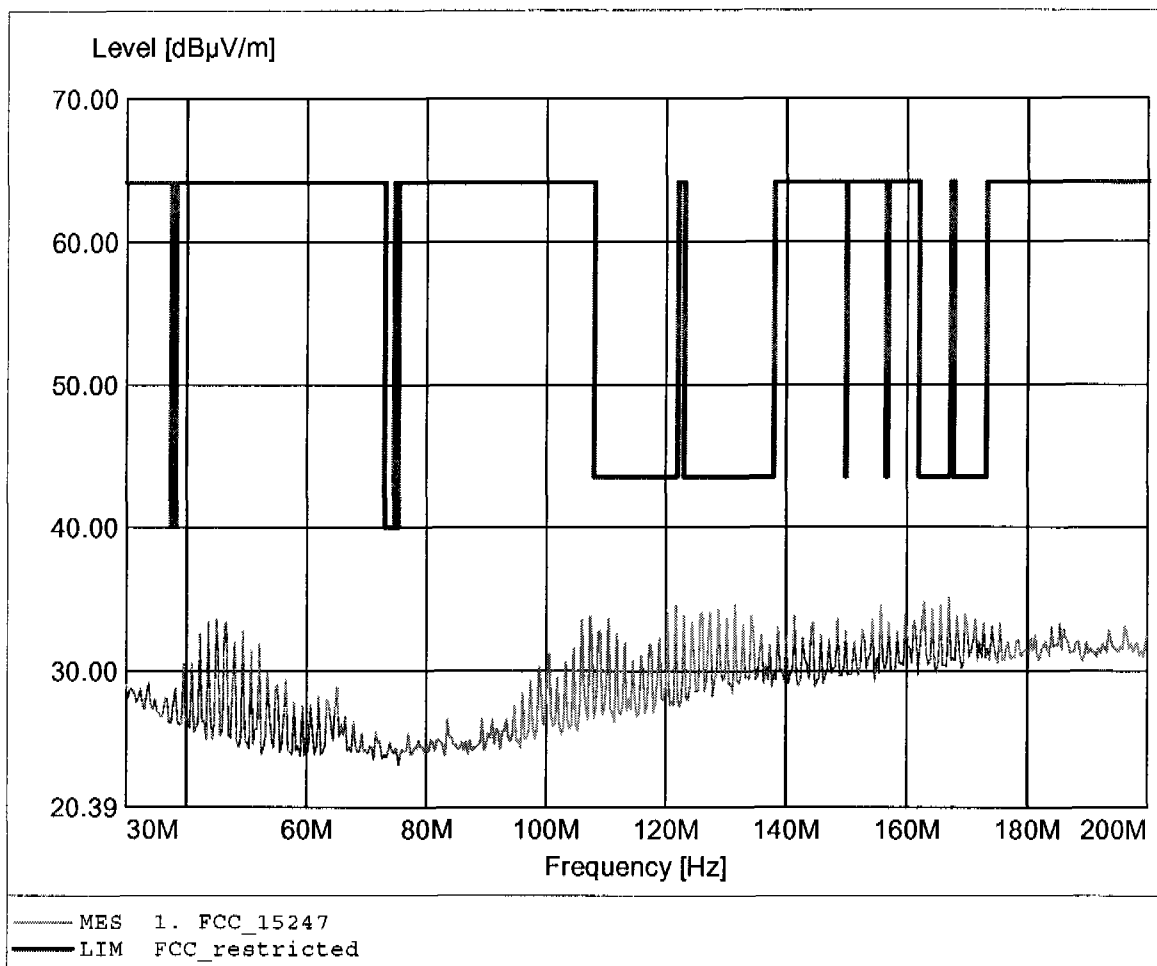
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 164.228MHz, Emax: 33.40dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

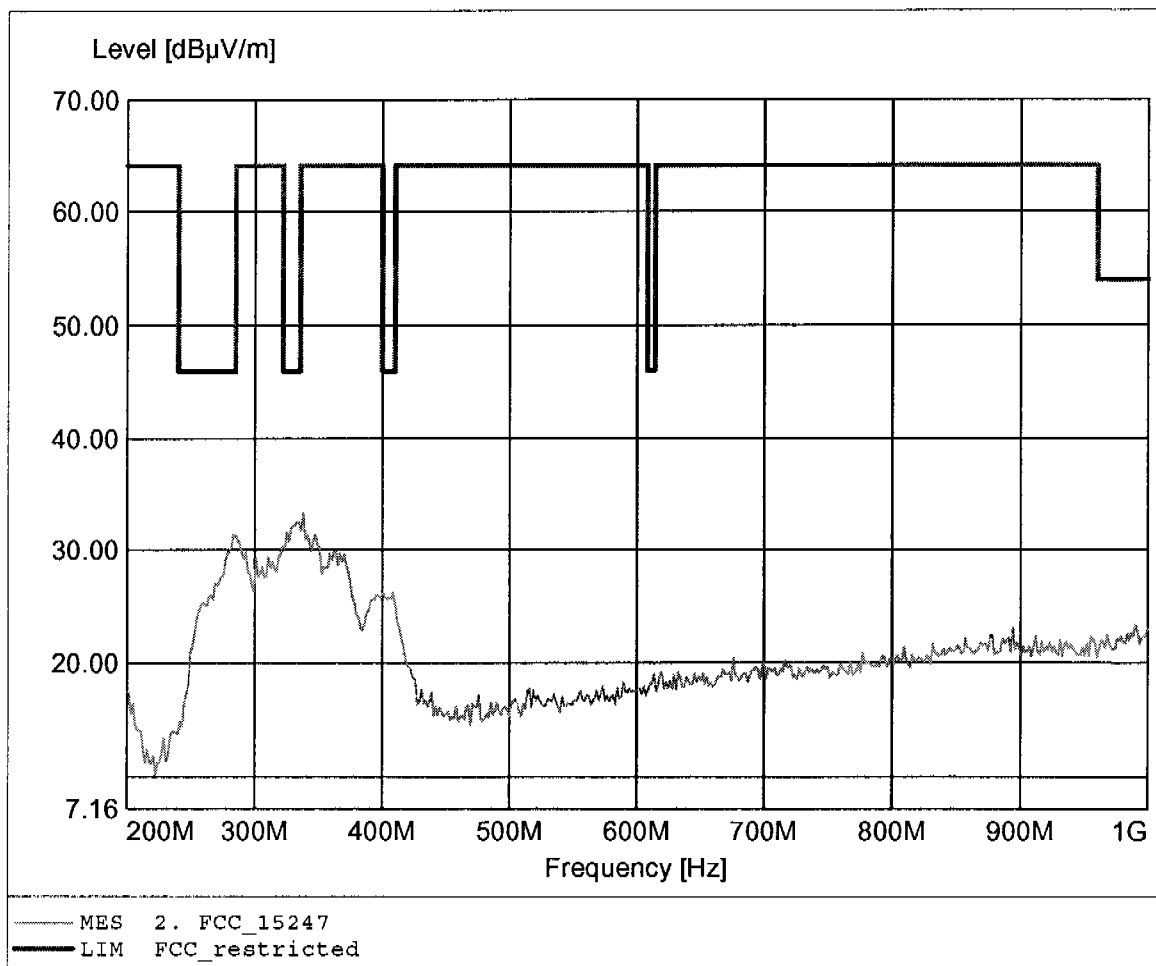
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 166.954MHz, Emax: 35.10dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

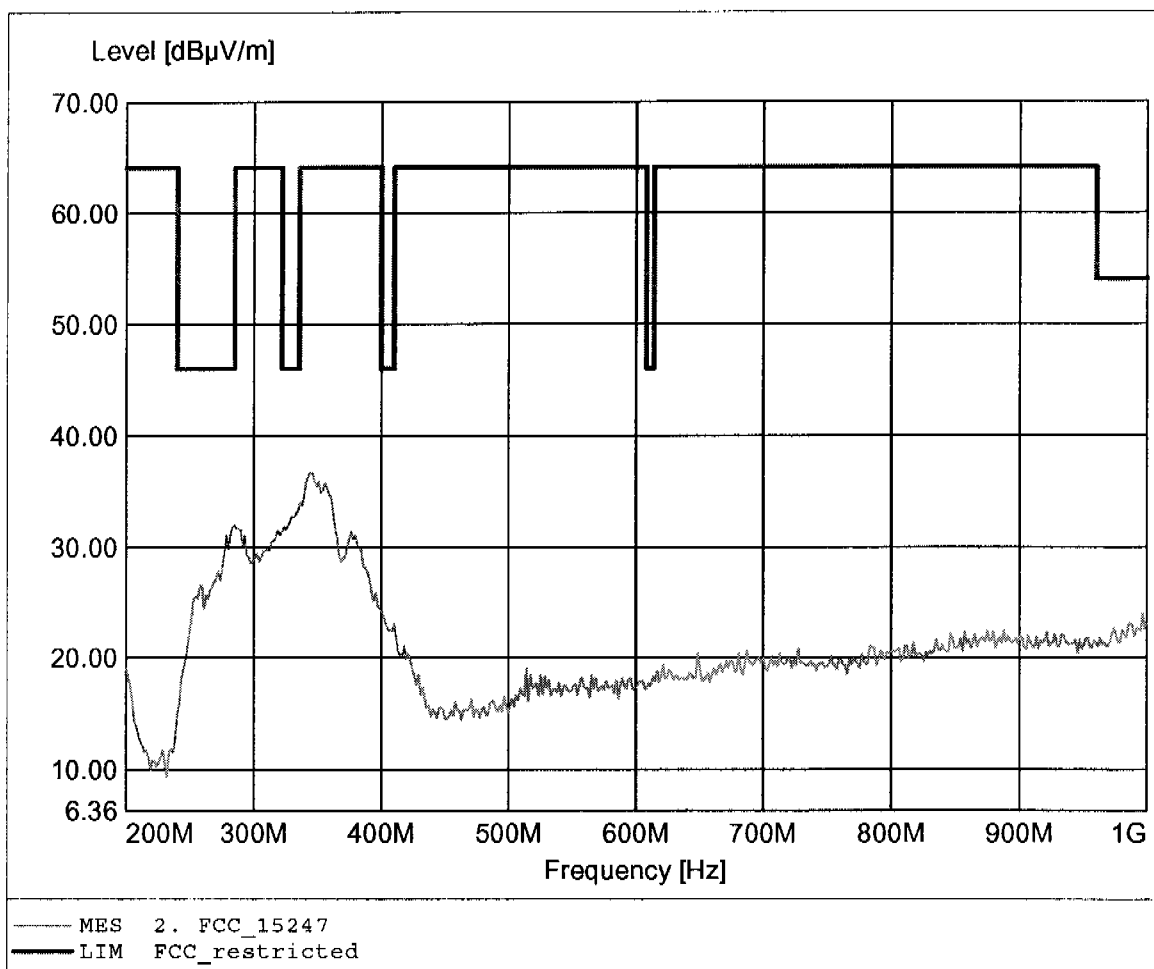
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 337.876MHz, Emax: 33.27dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

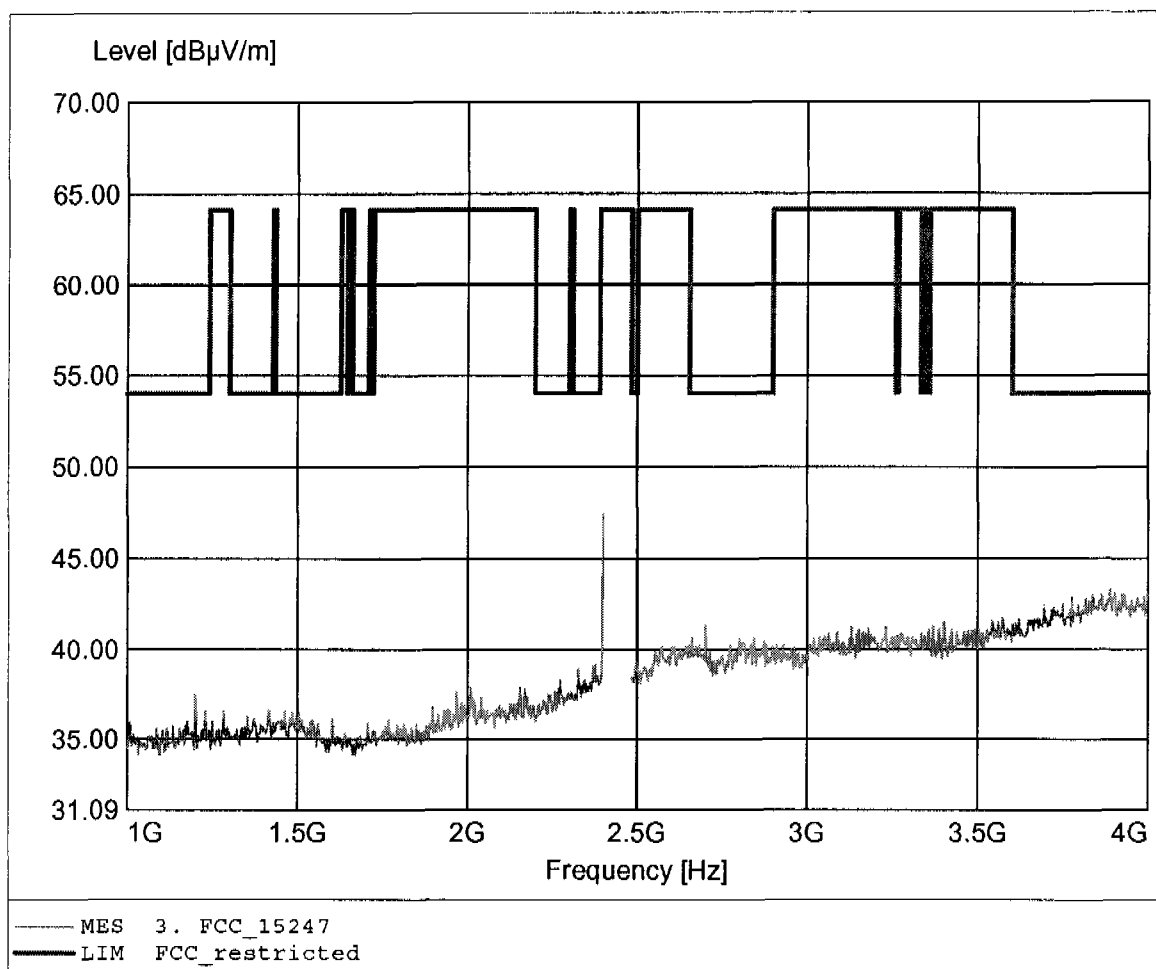
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 344.289MHz, Emax: 36.71dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

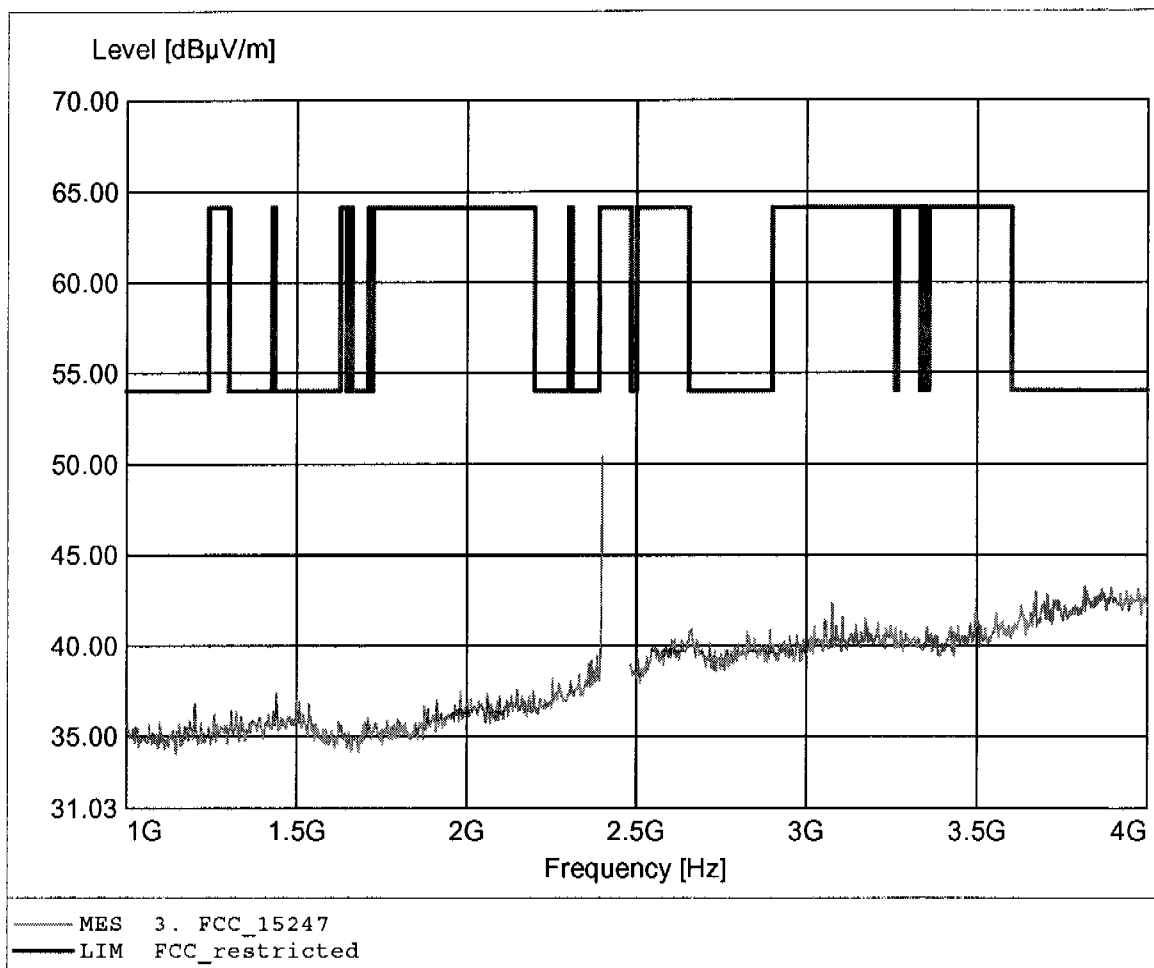
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.400GHz, Emax: 47.44dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

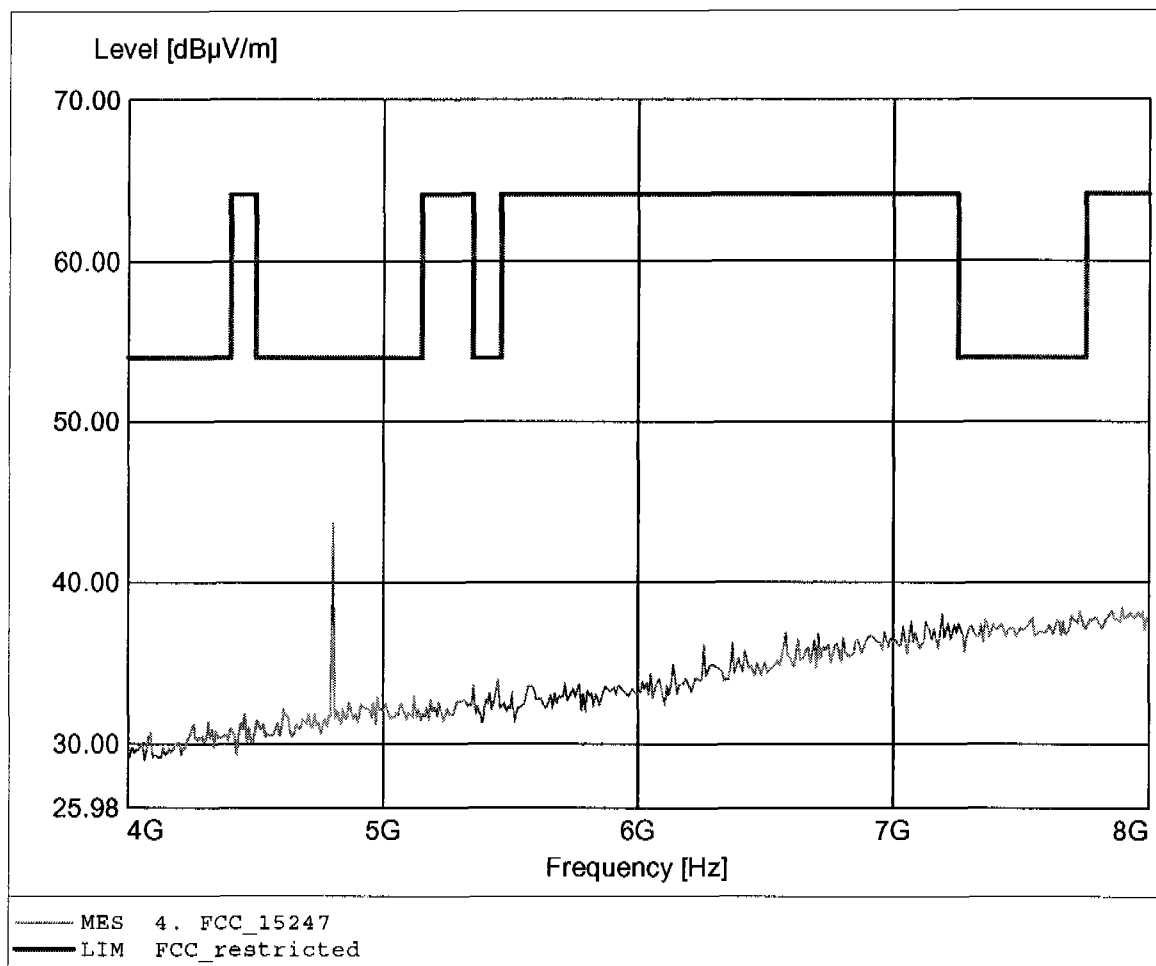
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.400GHz, Emax: 50.41dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

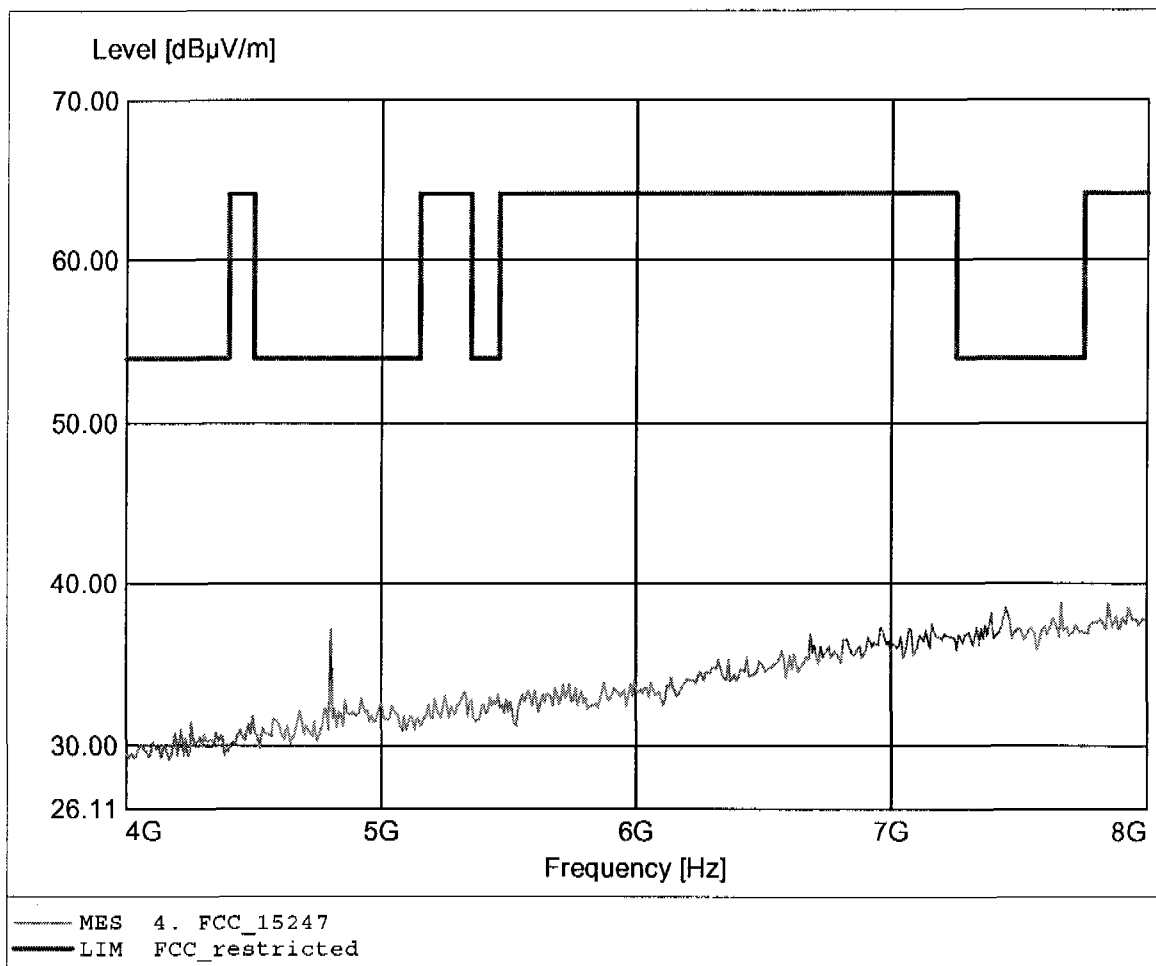
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.802GHz, Emax: 43.68dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

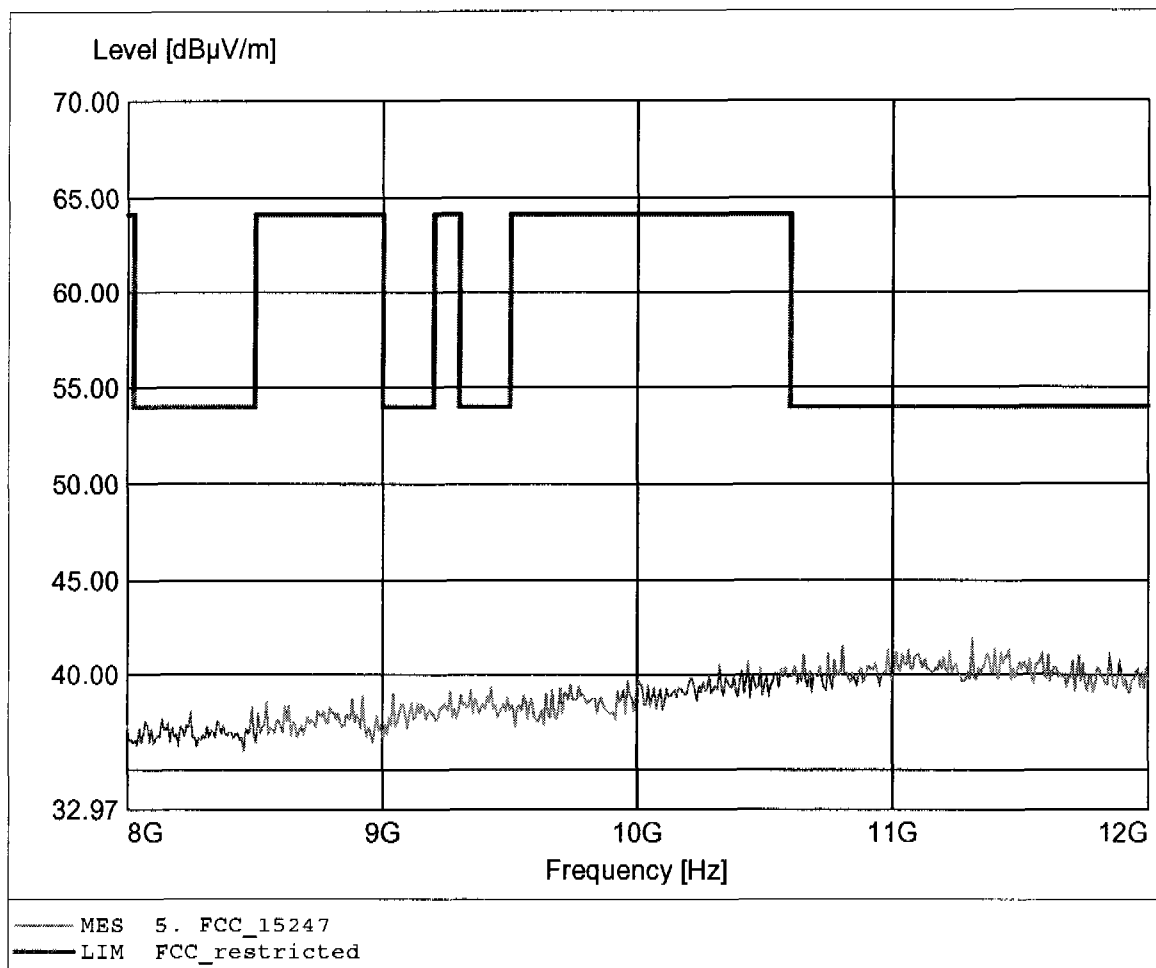
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 7.663GHz, Emax: 38.77dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

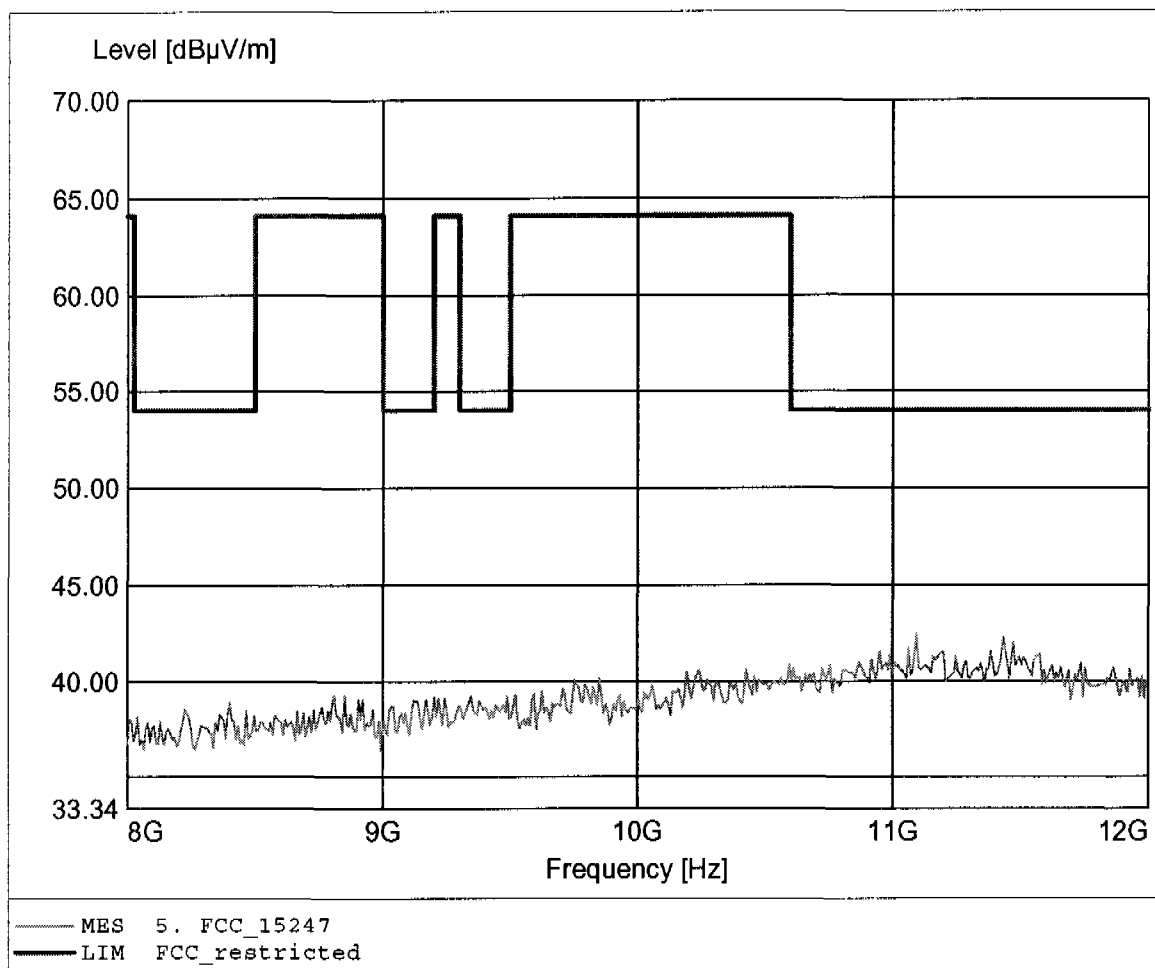
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.311GHz, Emax: 41.91dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

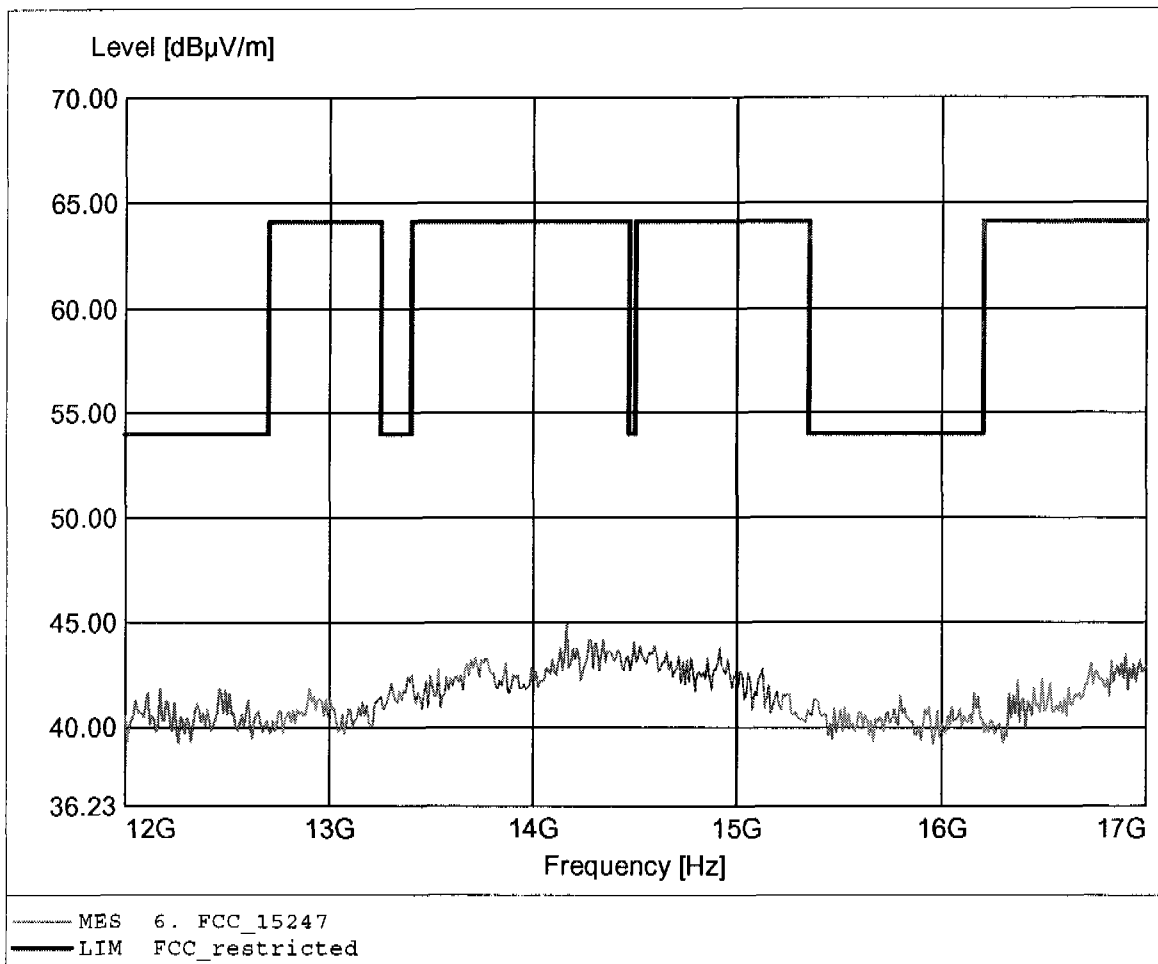
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.094GHz, Emax: 42.49dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

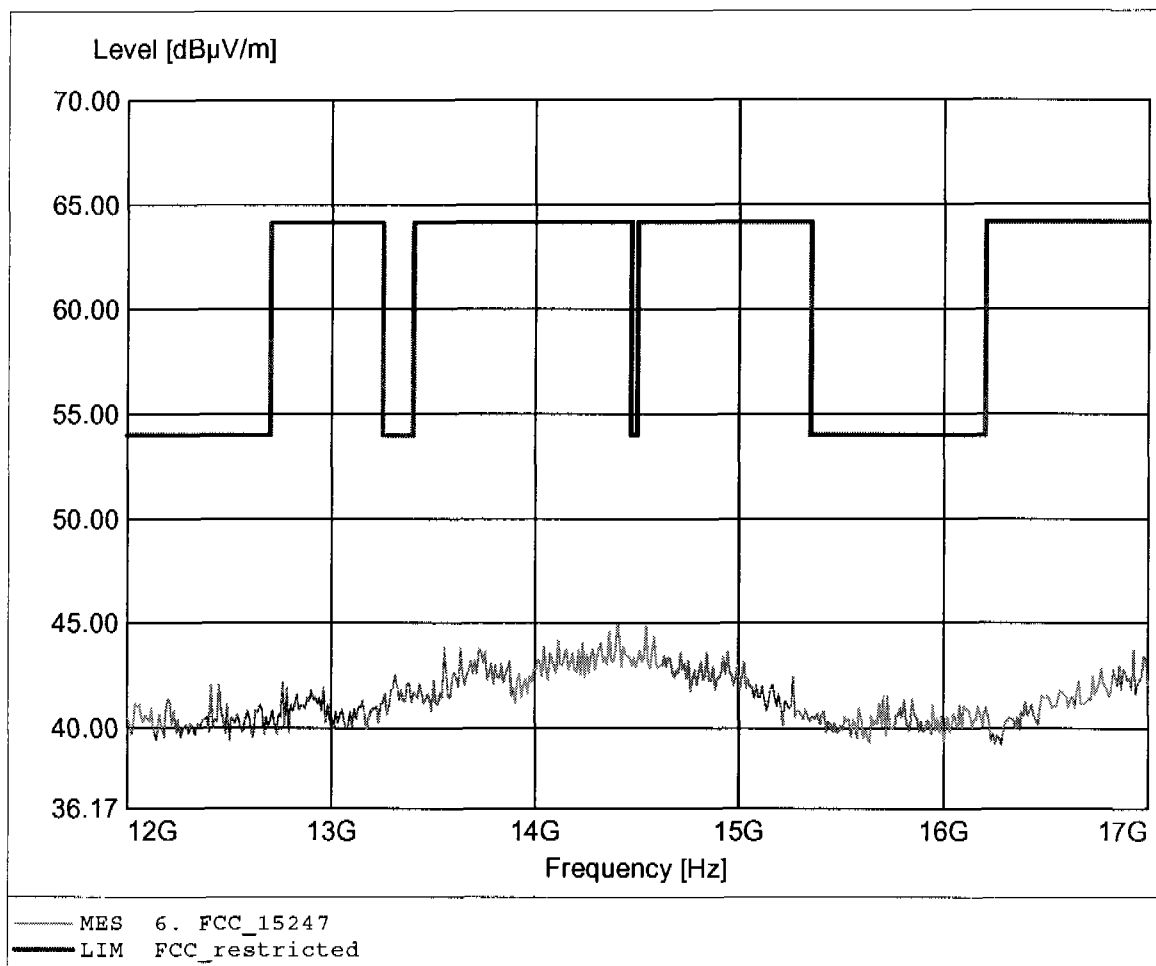
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.164GHz, Emax: 44.91dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

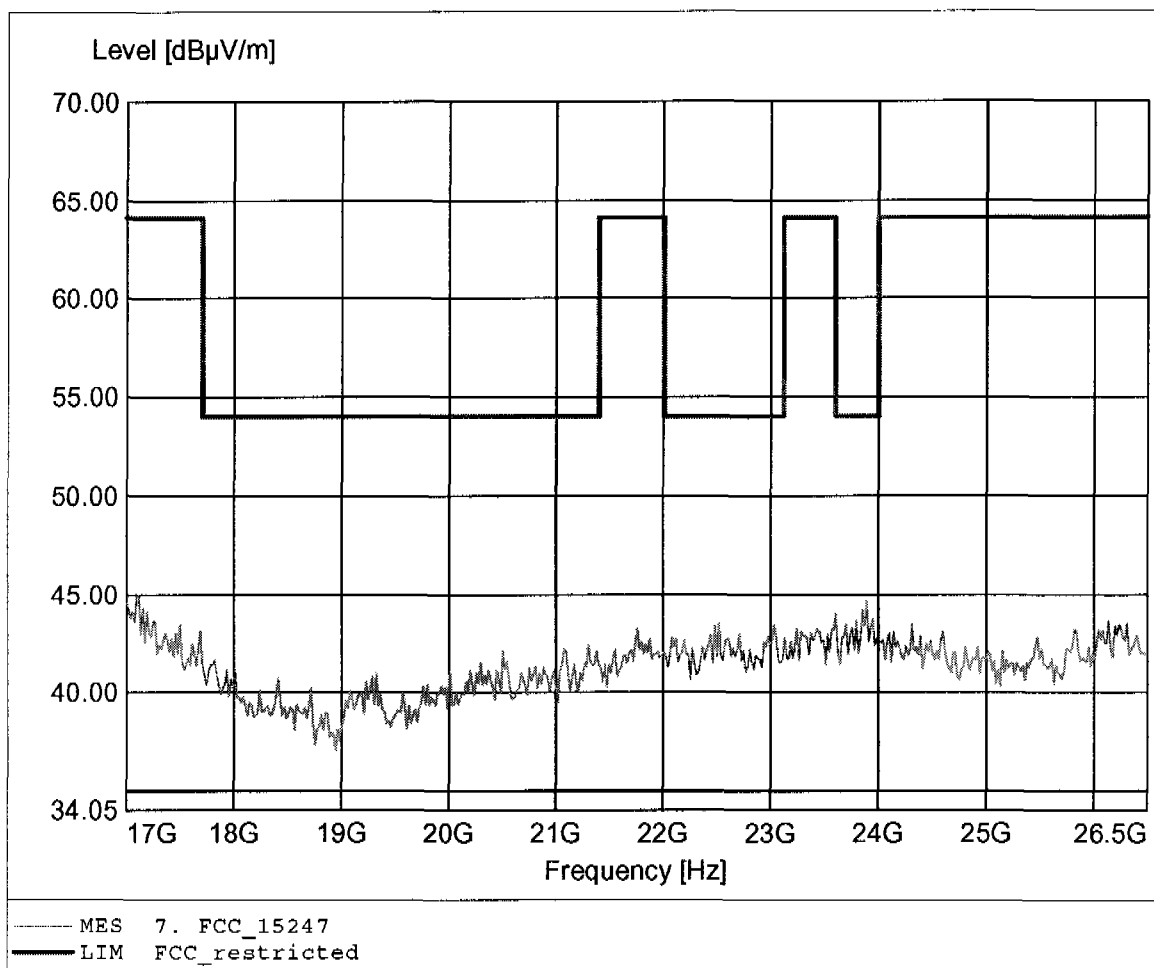
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.405GHz, Emax: 45.00dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

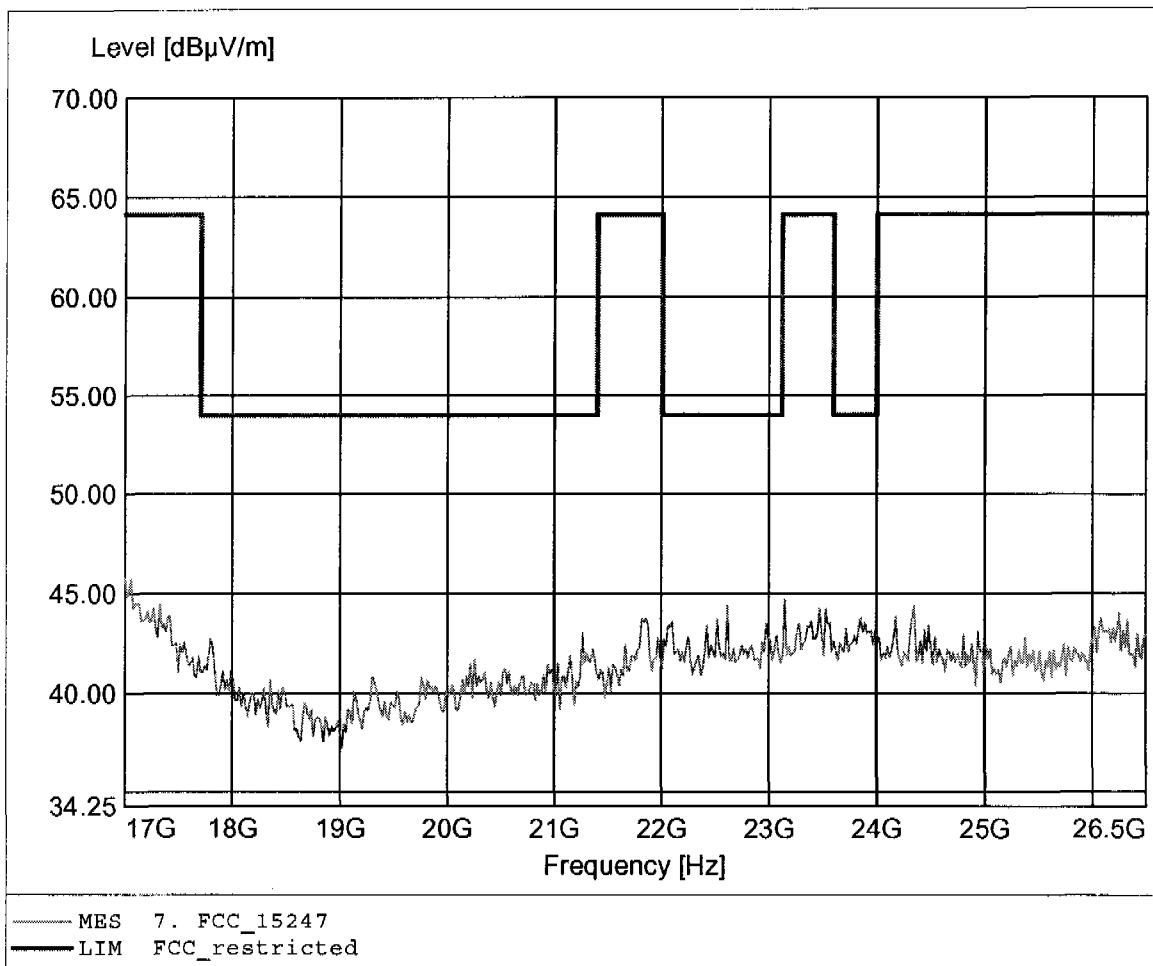
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.095GHz, Emax: 45.07dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

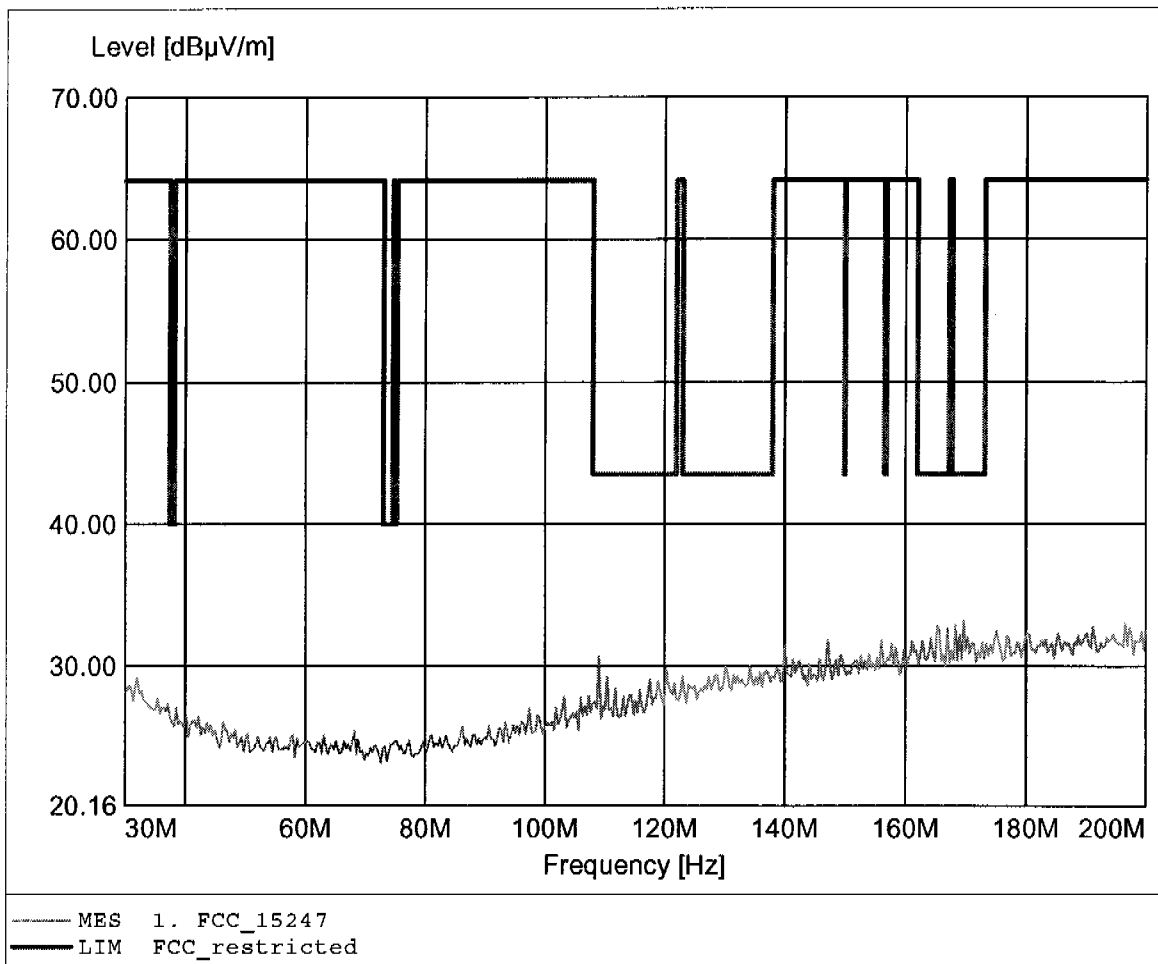
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2402 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.000GHz, Emax: 45.83dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

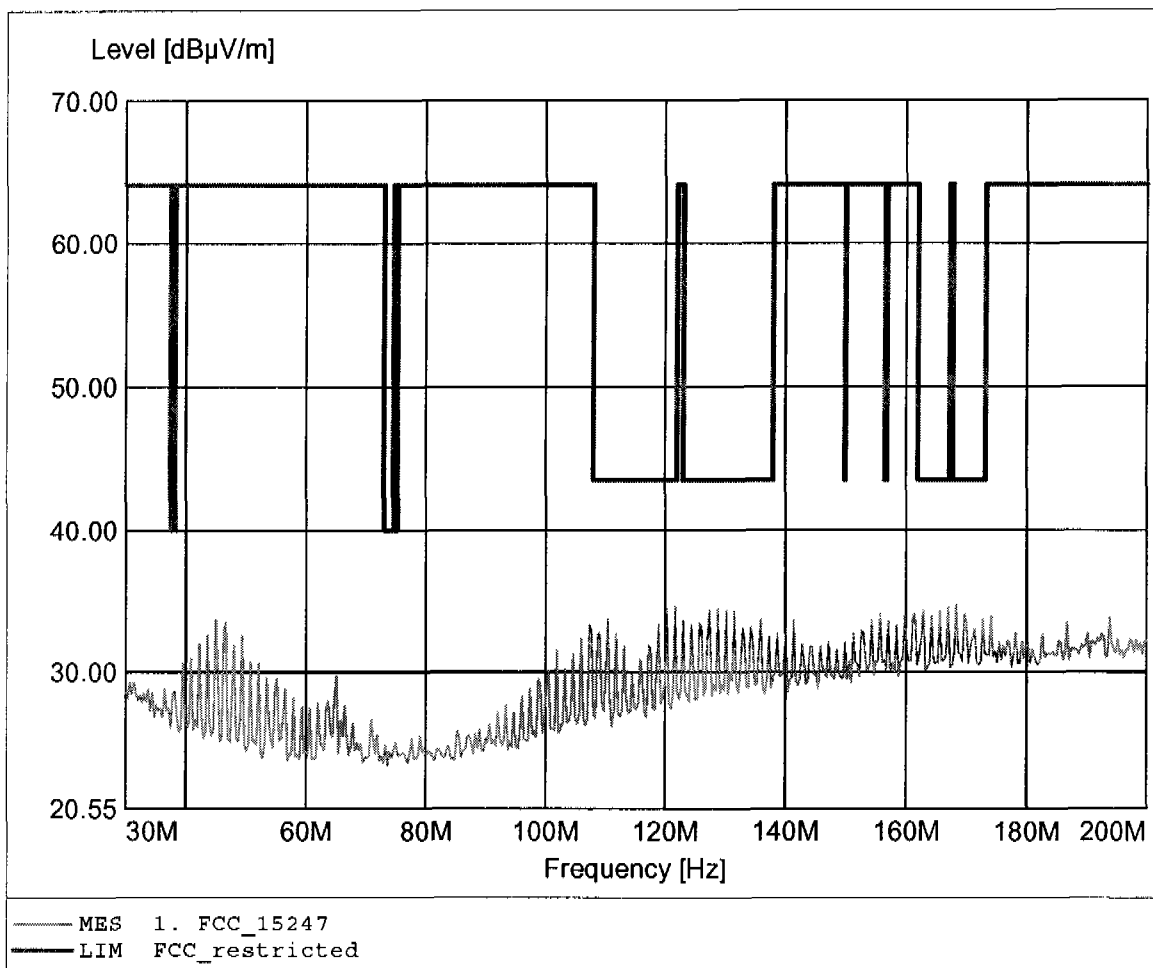
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 169.679MHz, Emax: 33.17dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

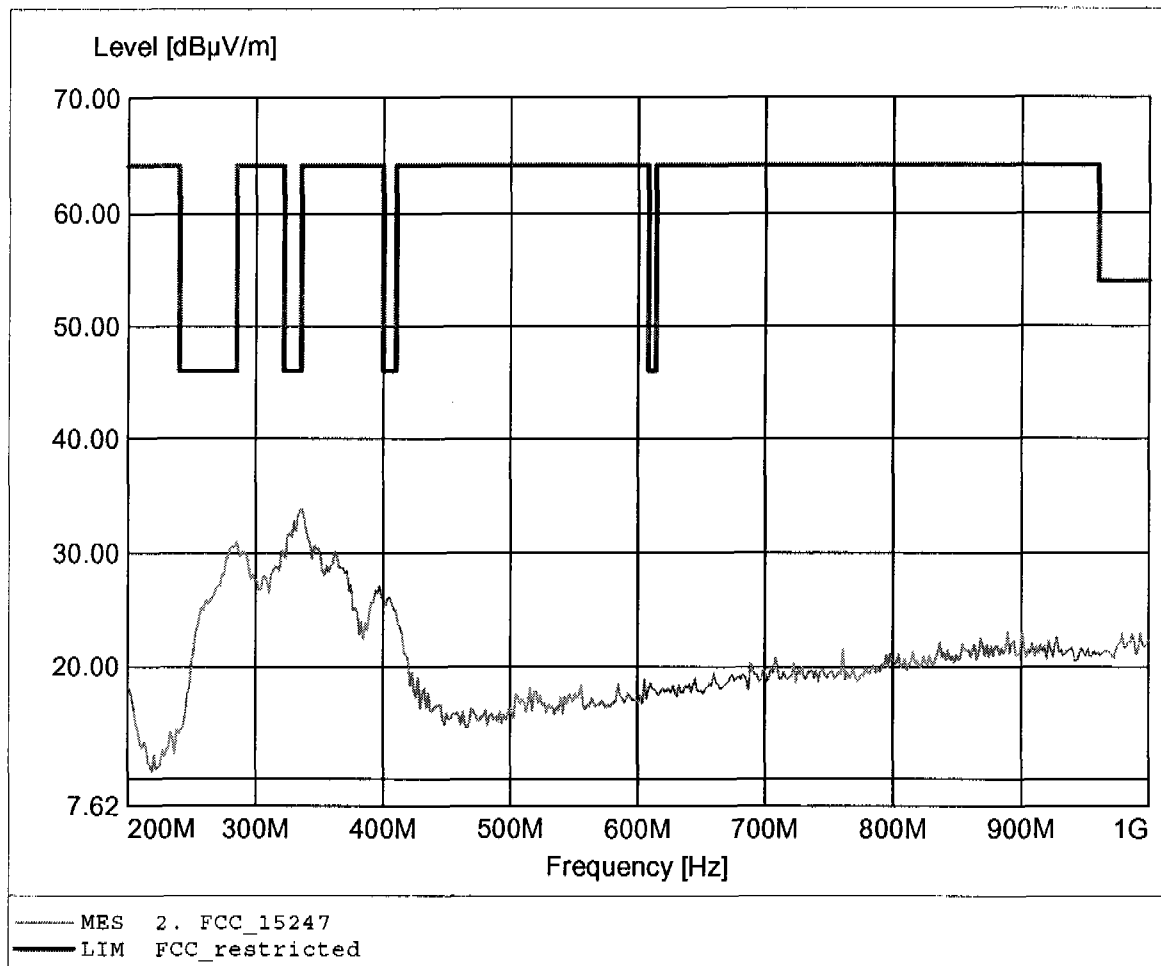
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 168.317MHz, Emax: 34.73dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

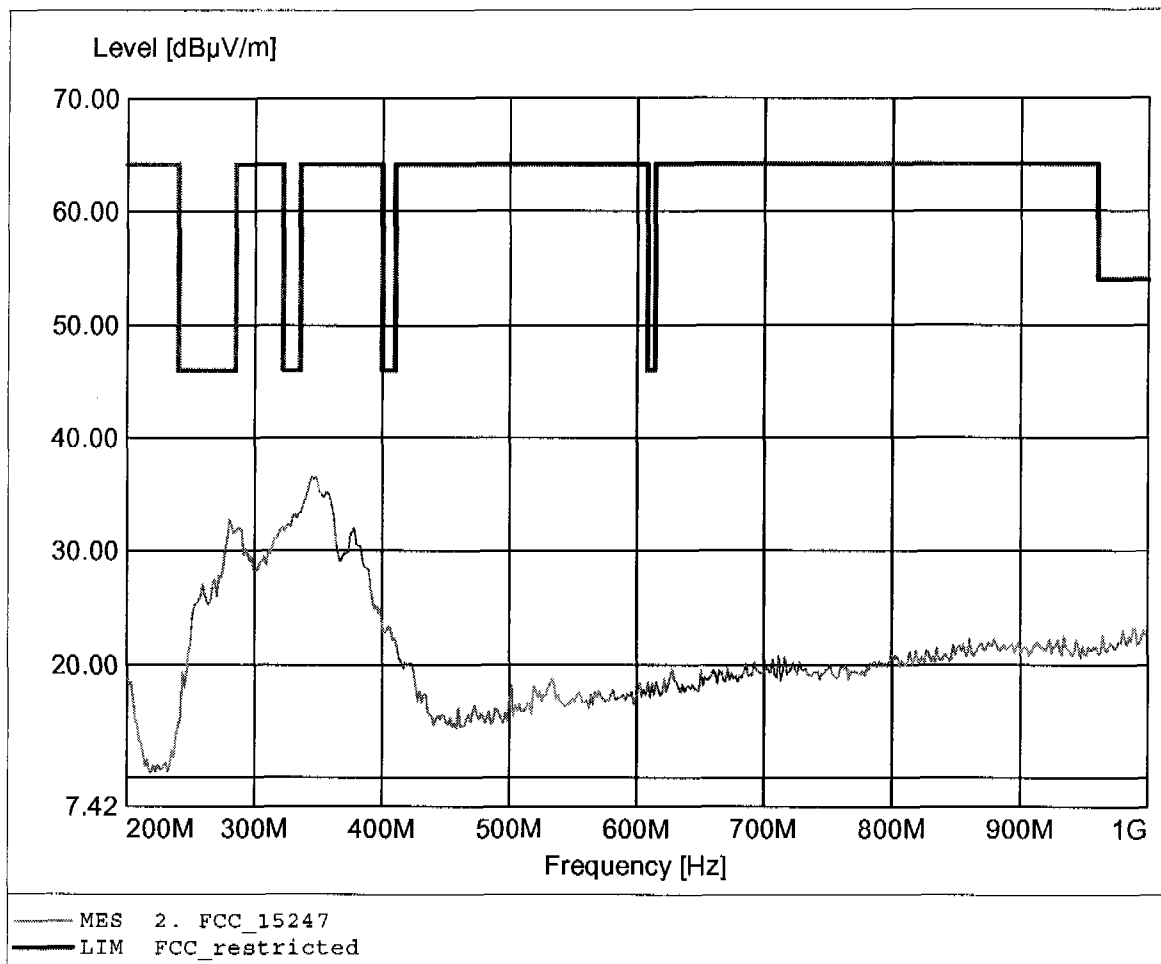
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 336.273MHz, Emax: 33.84dBuV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

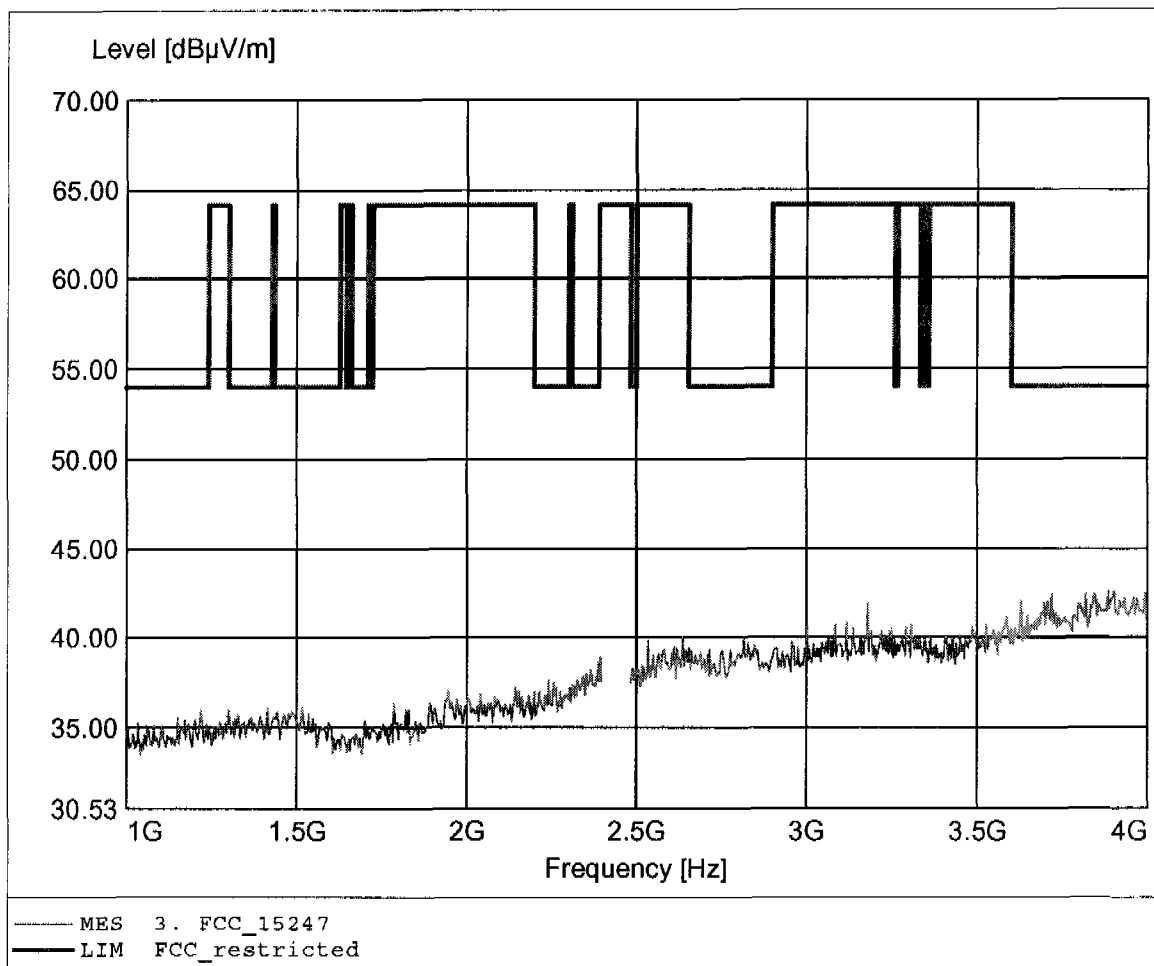
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 344.289MHz, Emax: 36.54dBuV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

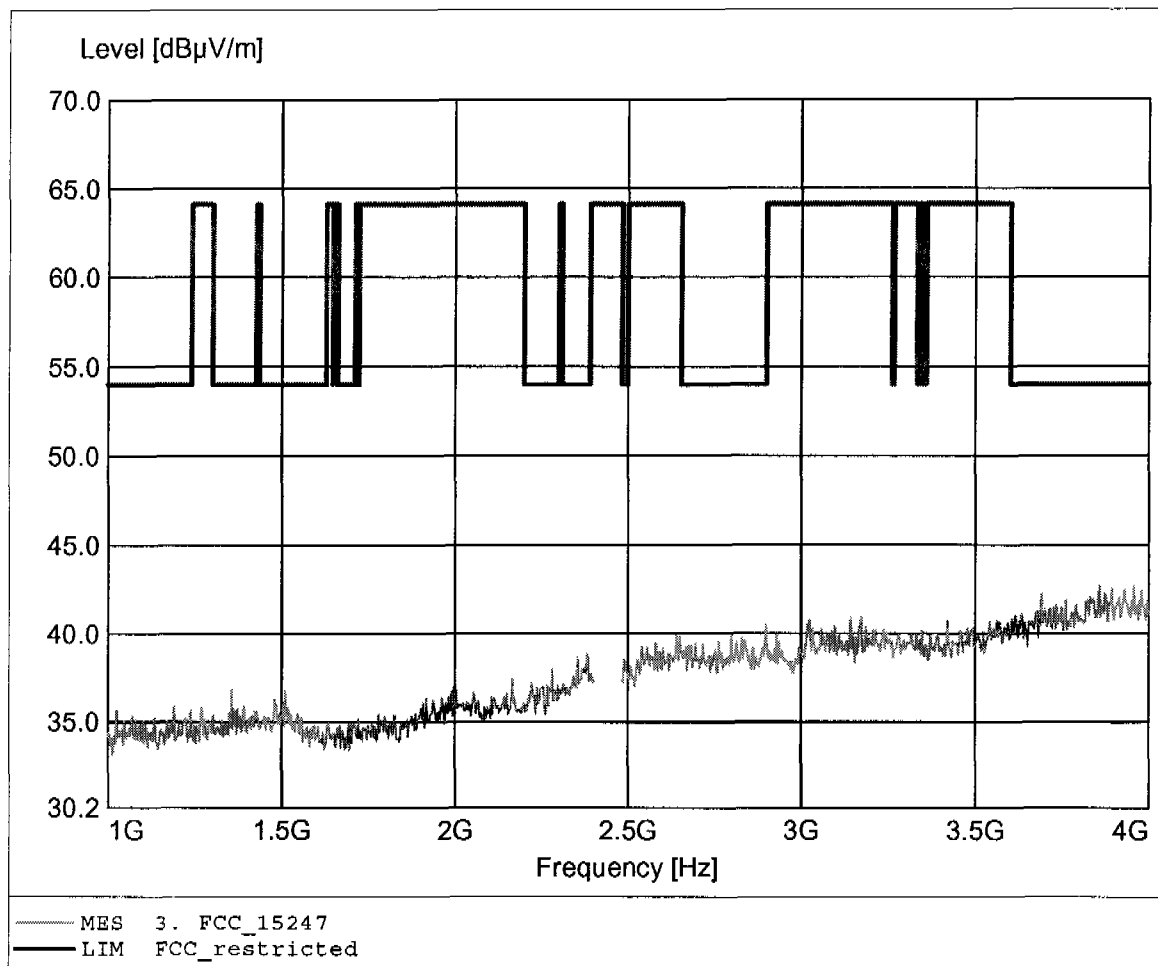
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 3.885GHz, Emax: 42.58dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

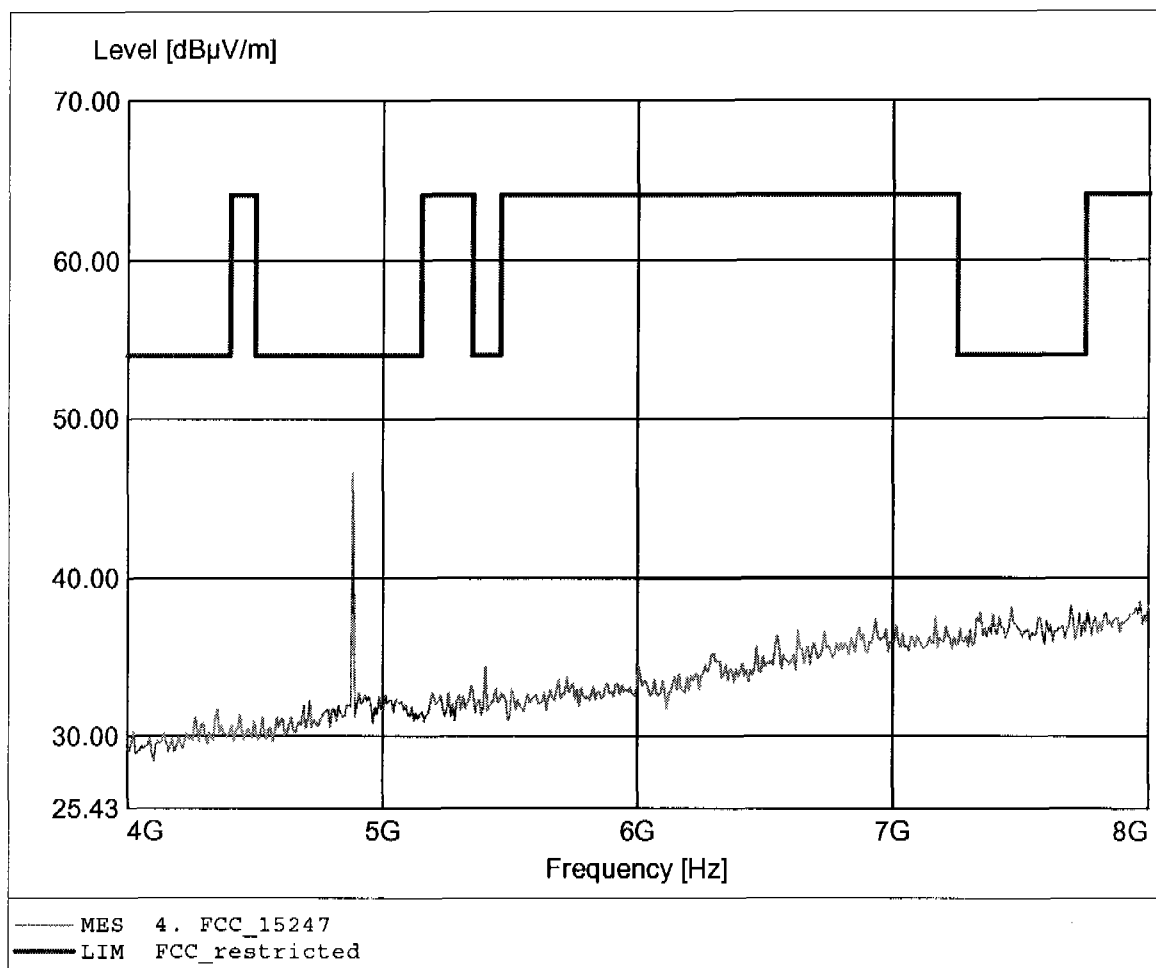
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 3.857GHz, Emax: 42.69dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

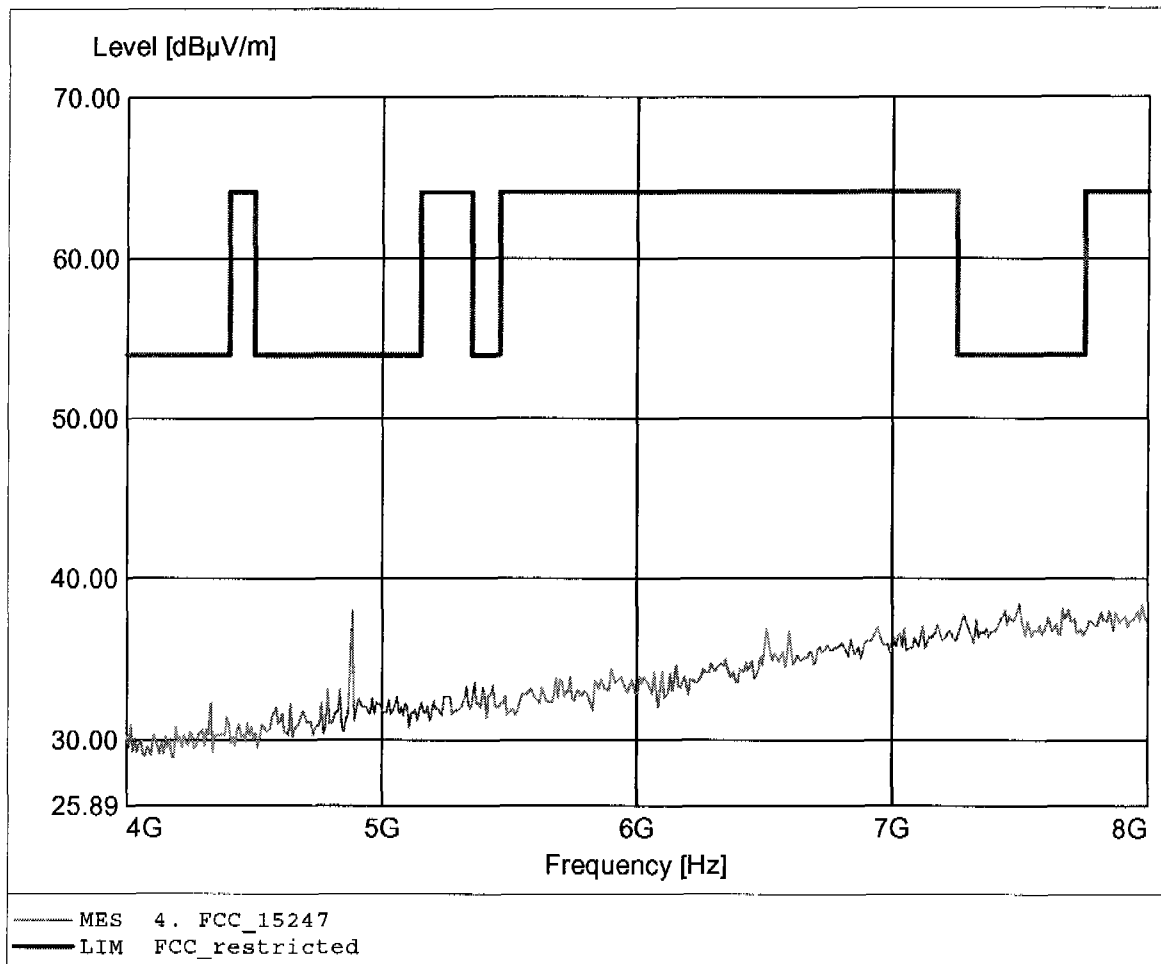
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.882GHz, Emax: 46.60dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

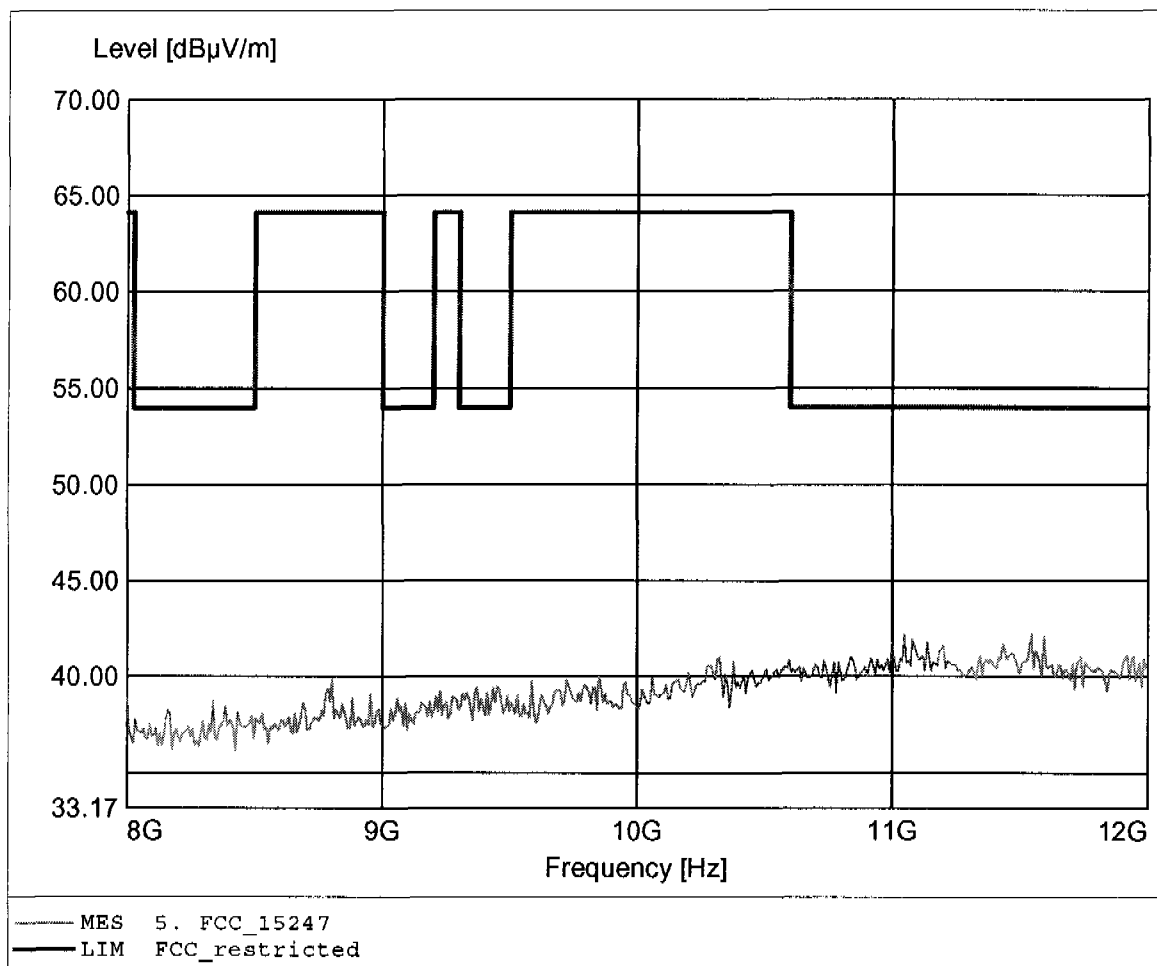
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 7.495GHz, Emax: 38.47dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

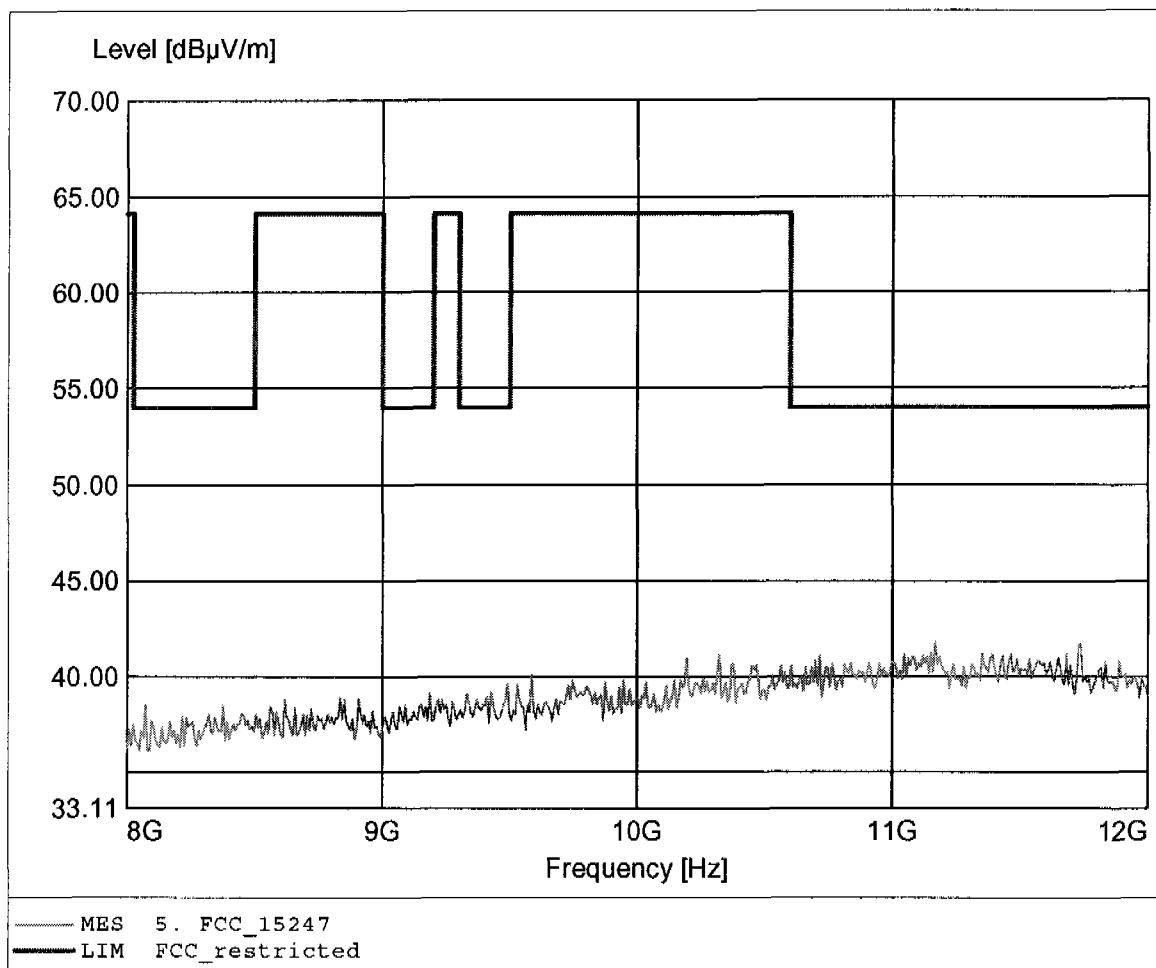
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.543GHz, Emax: 42.17dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

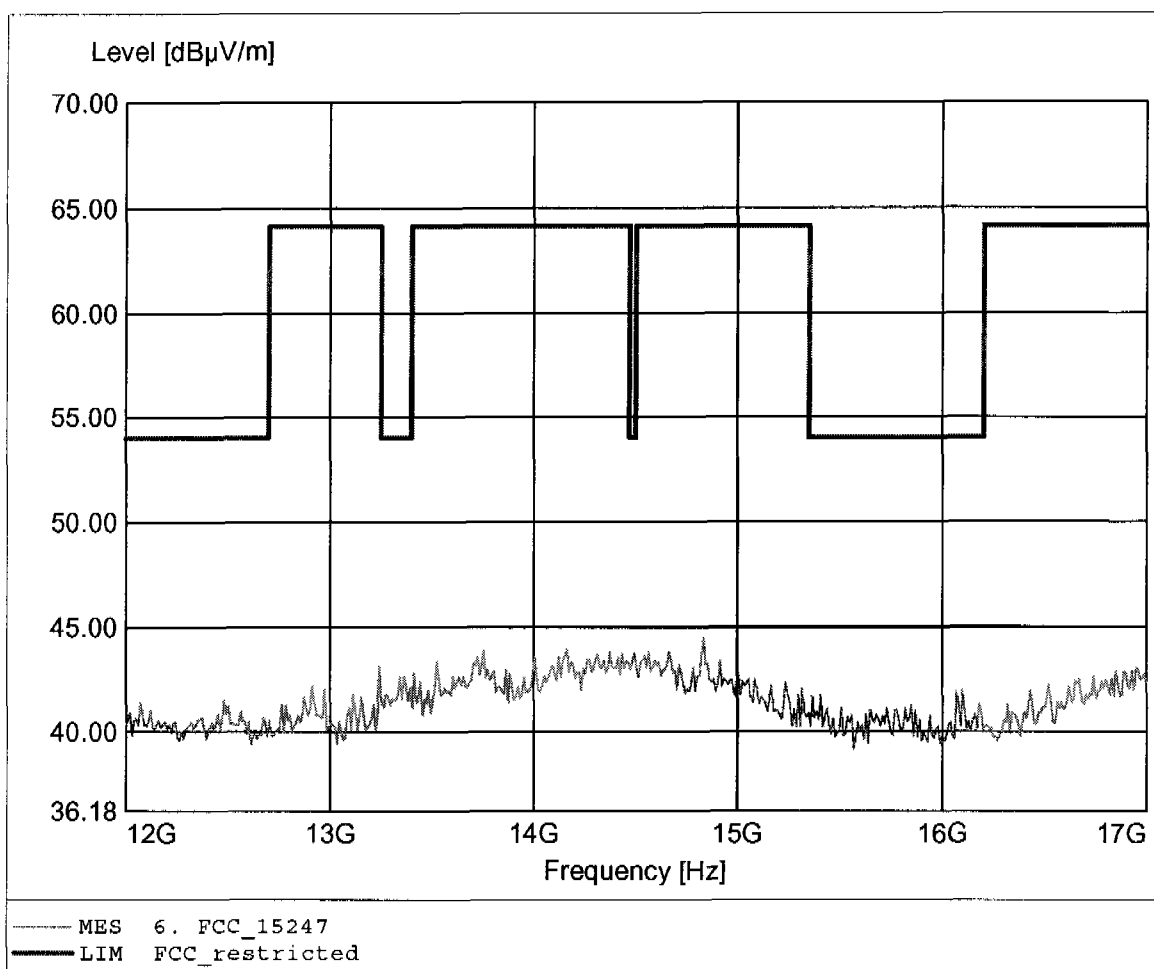
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.166GHz, Emax: 41.80dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

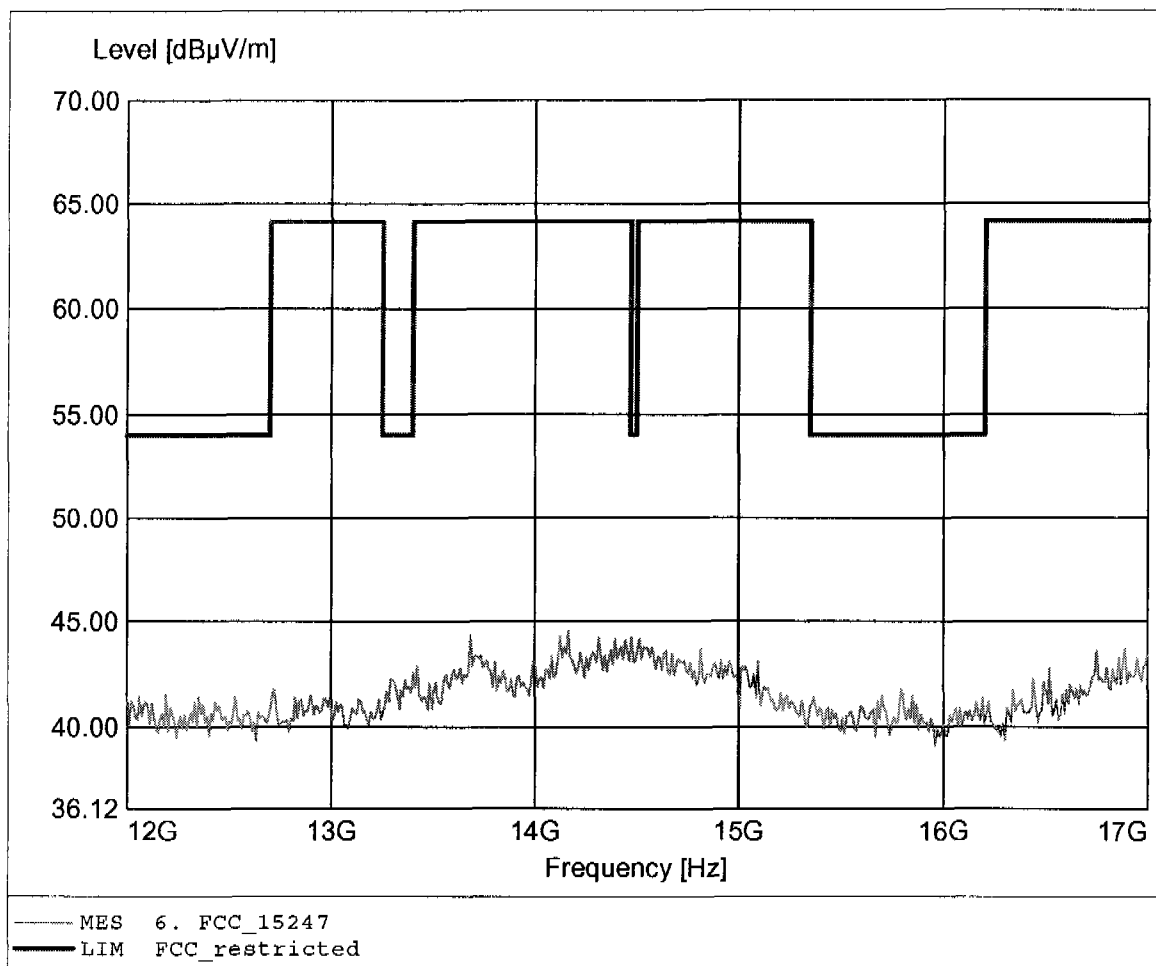
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.836GHz, Emax: 44.47dBμV/m, RBW: 1MHz



# Spurious emissions Field Strength

## FCC RULES PART 15, SUBPART C

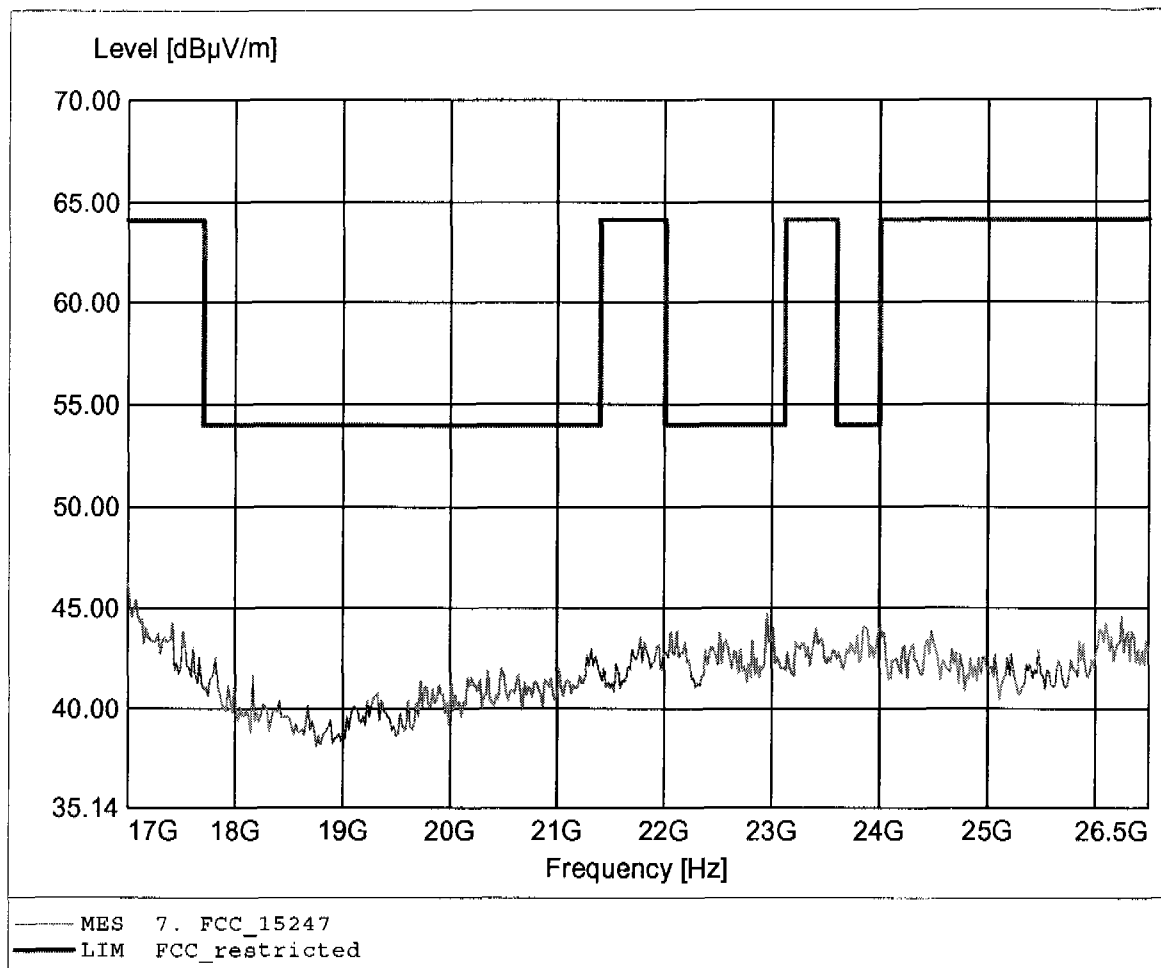
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.164GHz, Emax: 44.58dBuV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

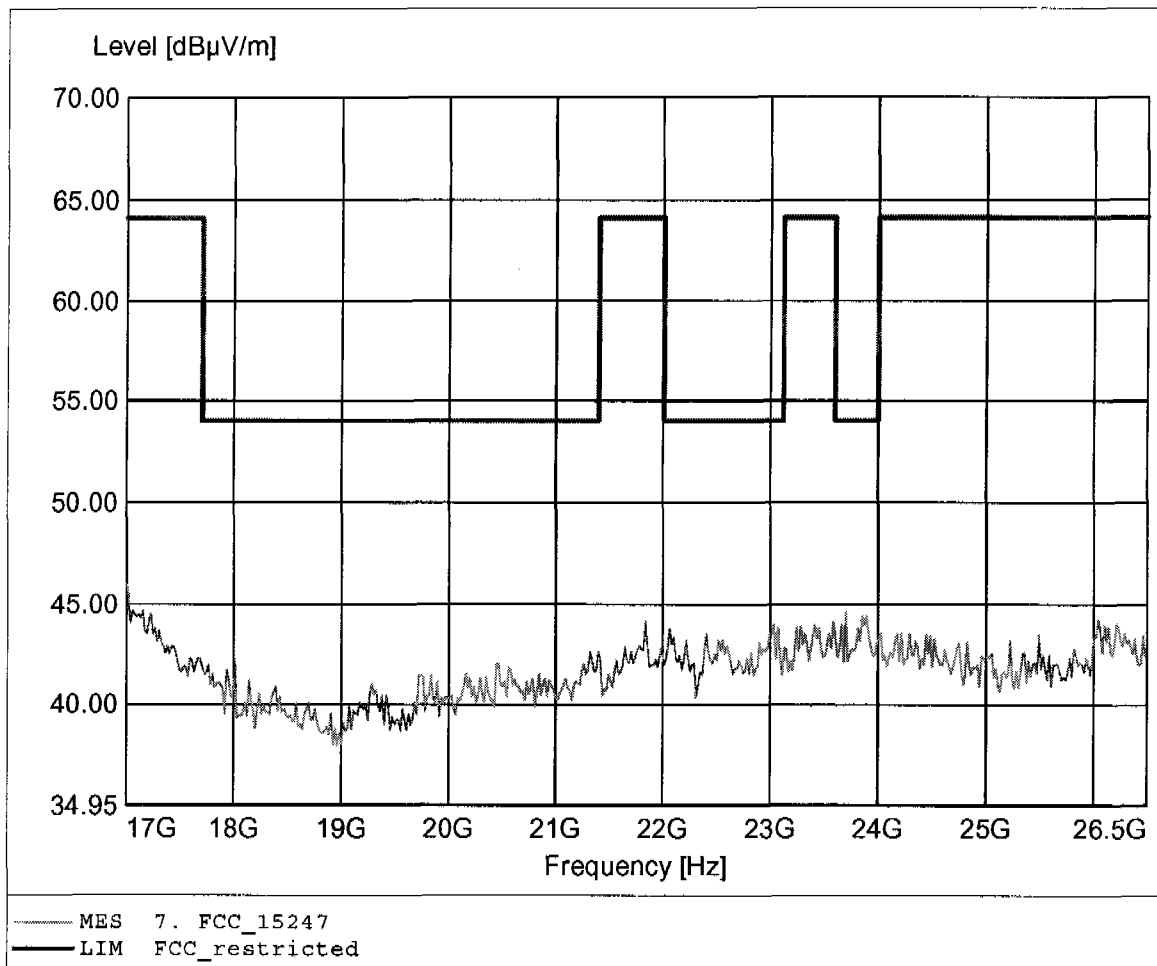
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.000GHz, Emax: 46.24dBuV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

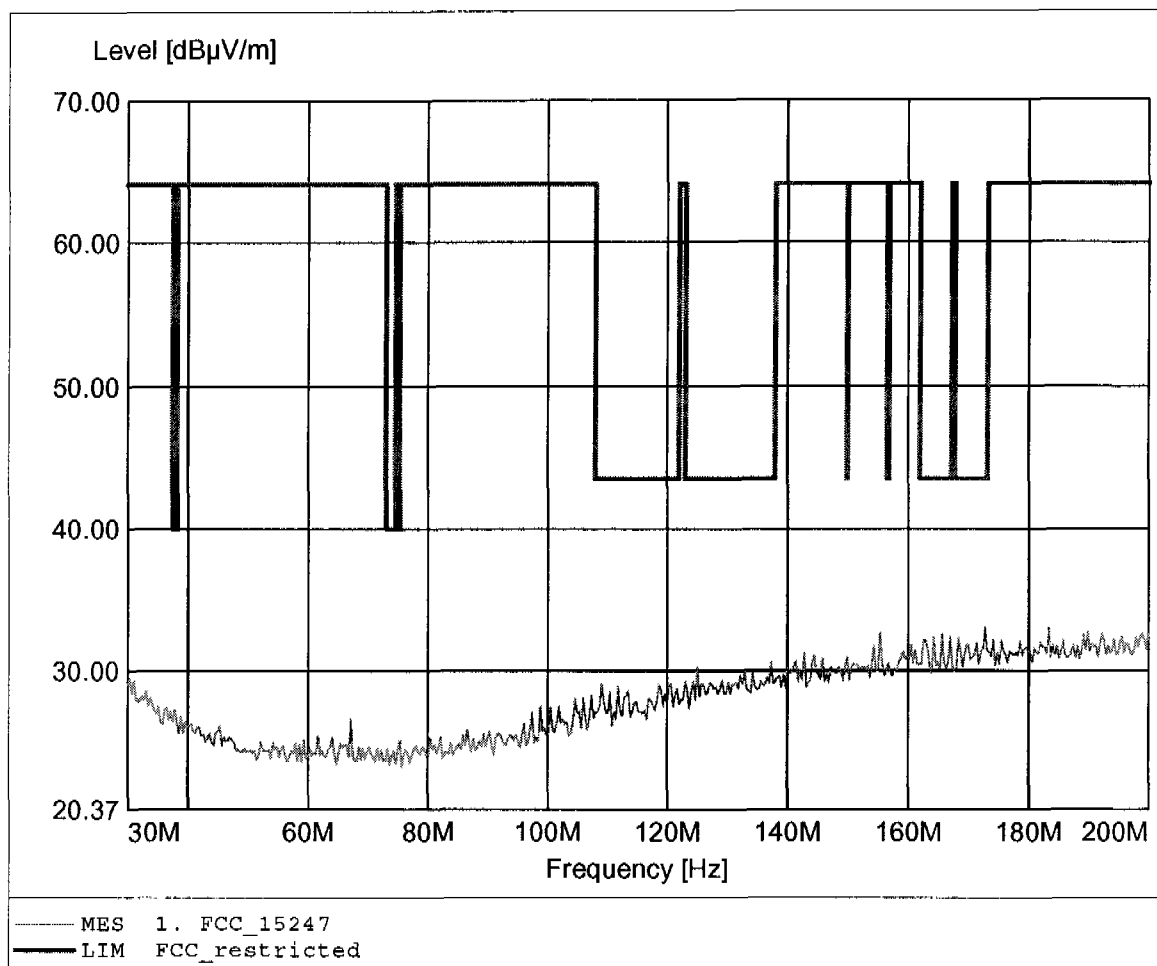
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2441 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.000GHz, Emax: 45.98dBuV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

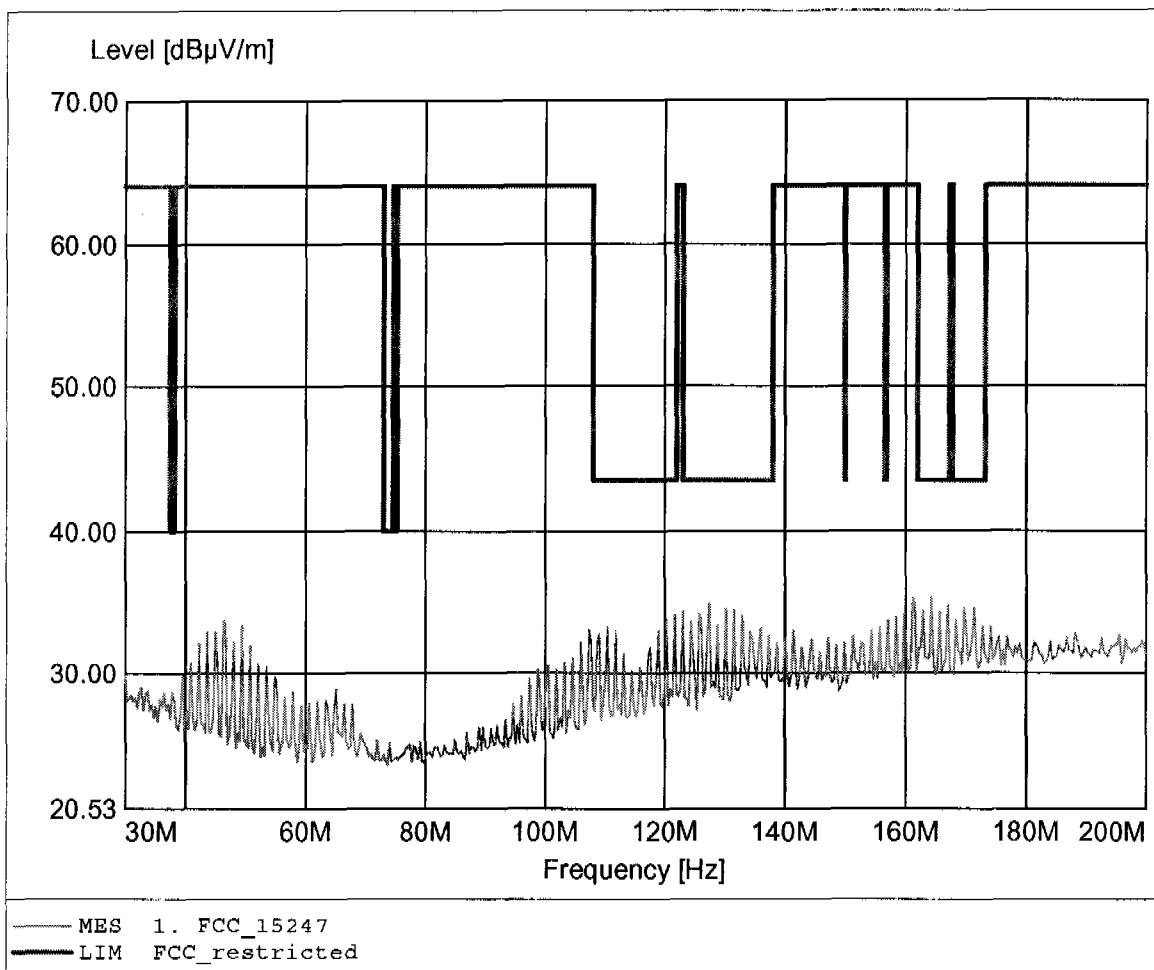
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 172.745MHz, Emax: 33.01dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

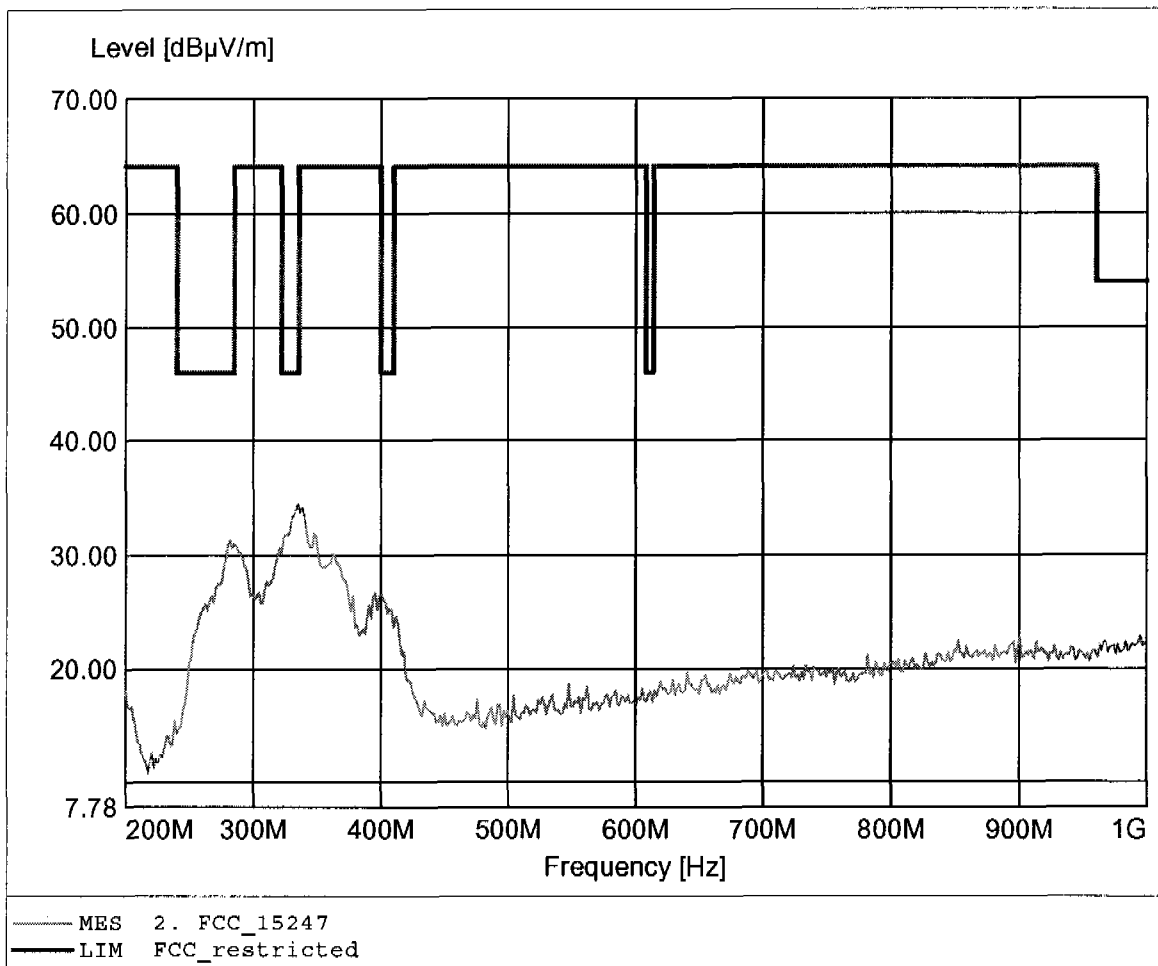
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 164.228MHz, Emax: 35.31dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

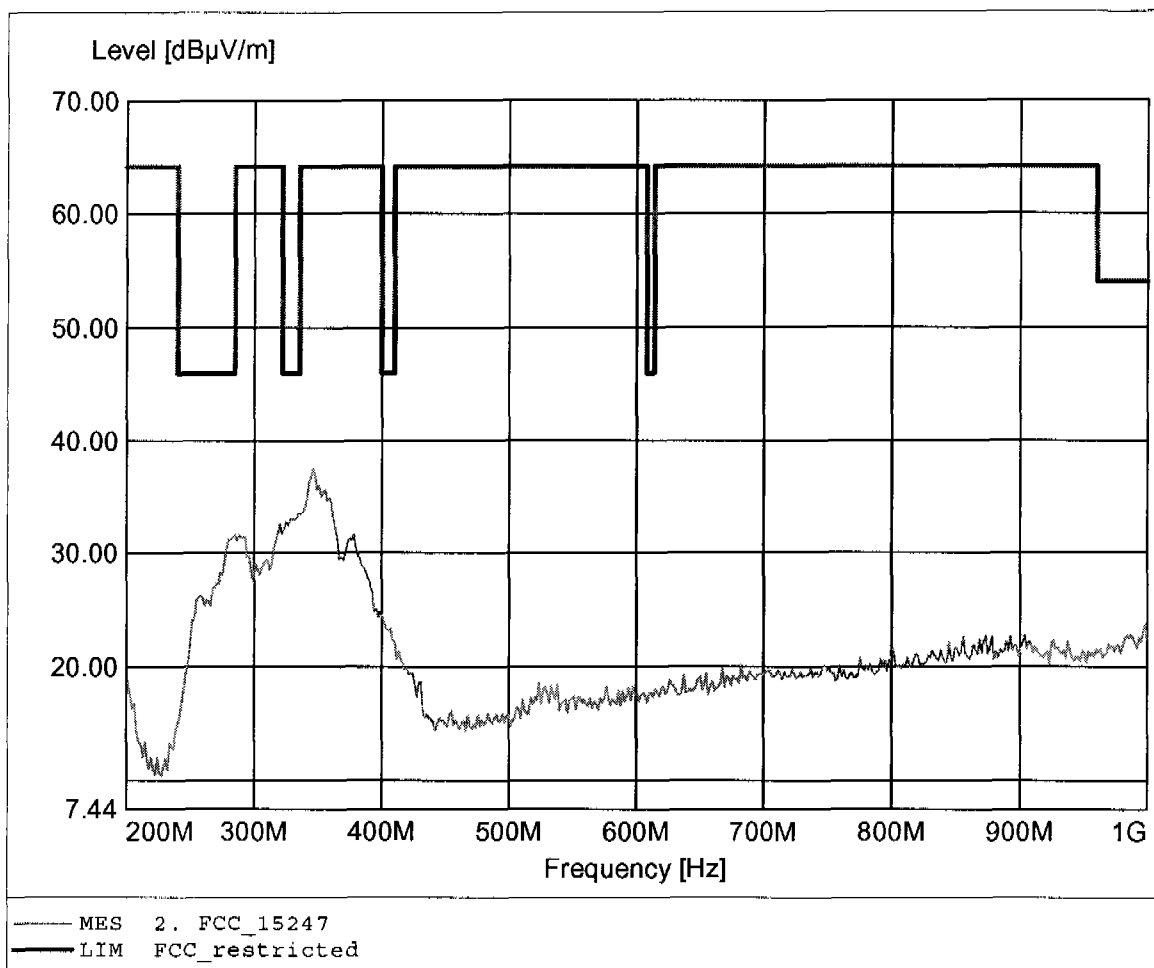
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 334.669MHz, Emax: 34.42dBμV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

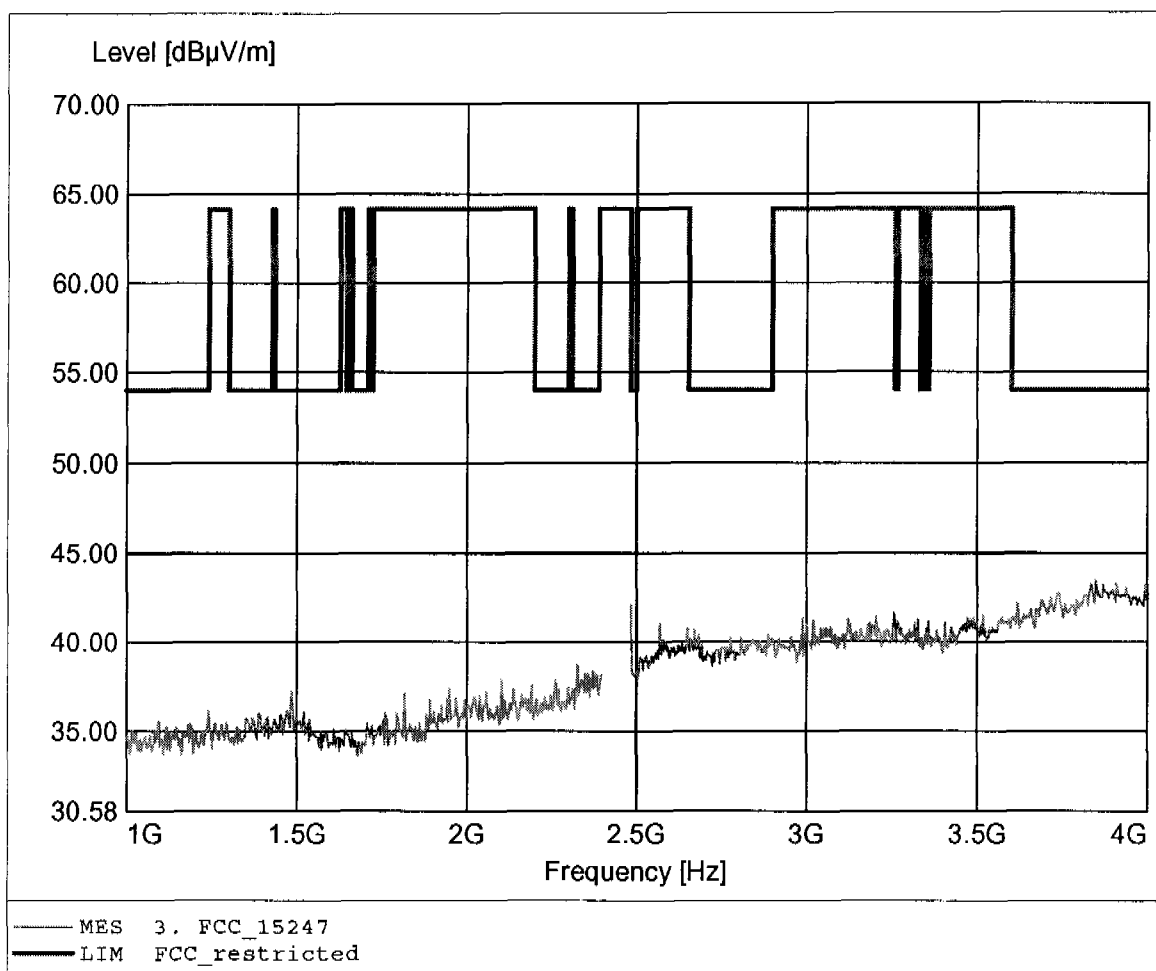
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 345.892MHz, Emax: 37.60dBµV/m, RBW: 100kHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

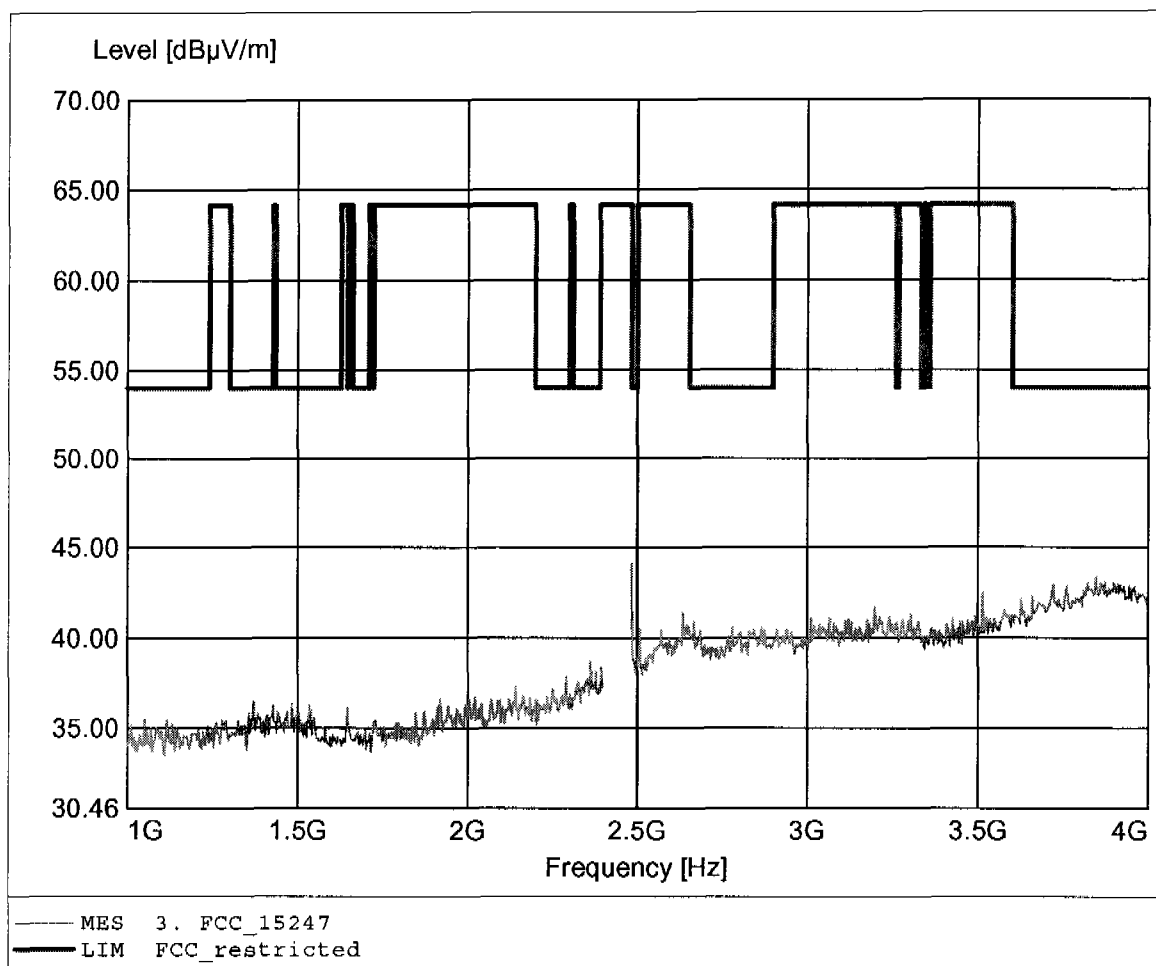
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 3.848GHz, Emax: 43.50dBμV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

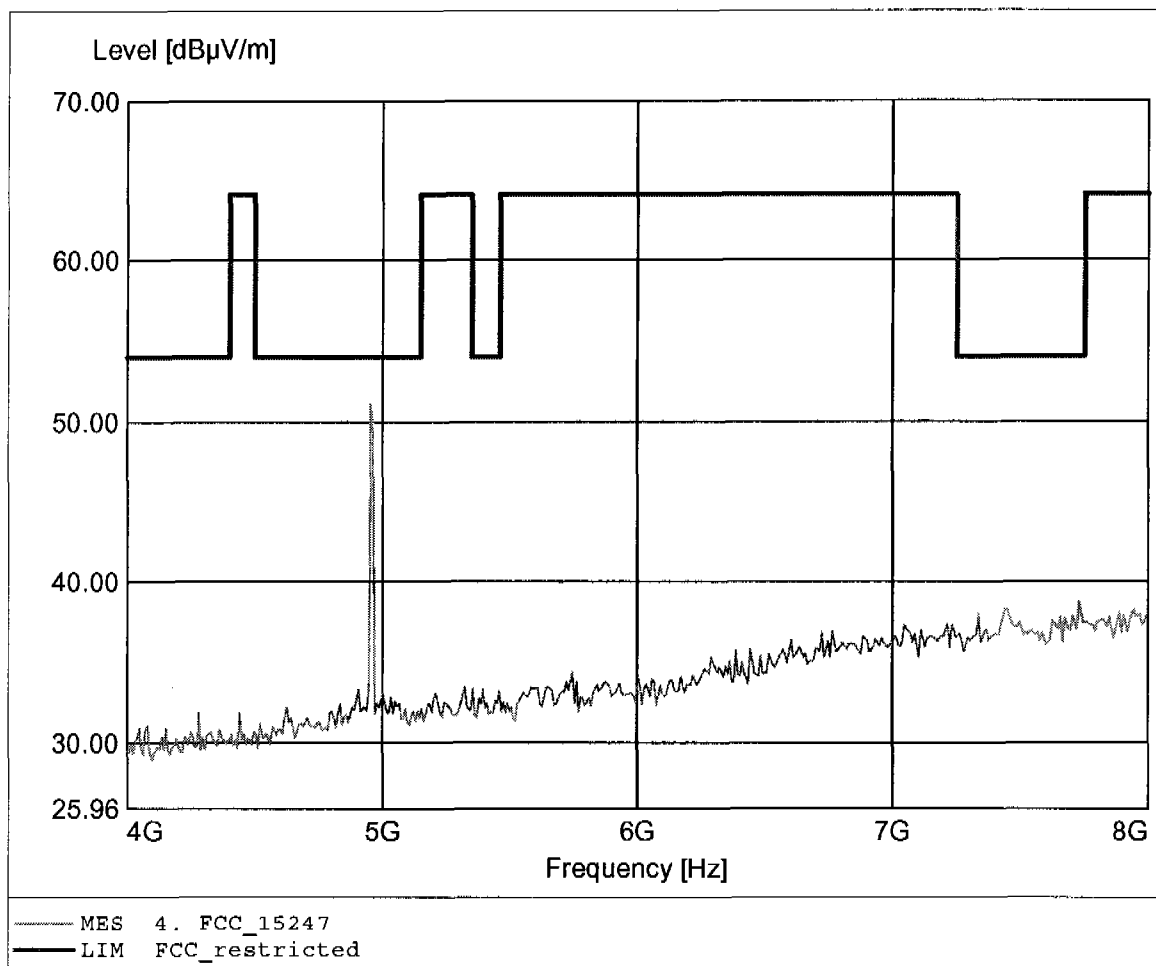
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.484GHz, Emax: 44.10dBµV/m, RBW: 1MHz



# Spurious emissions Field Strength

## FCC RULES PART 15, SUBPART C

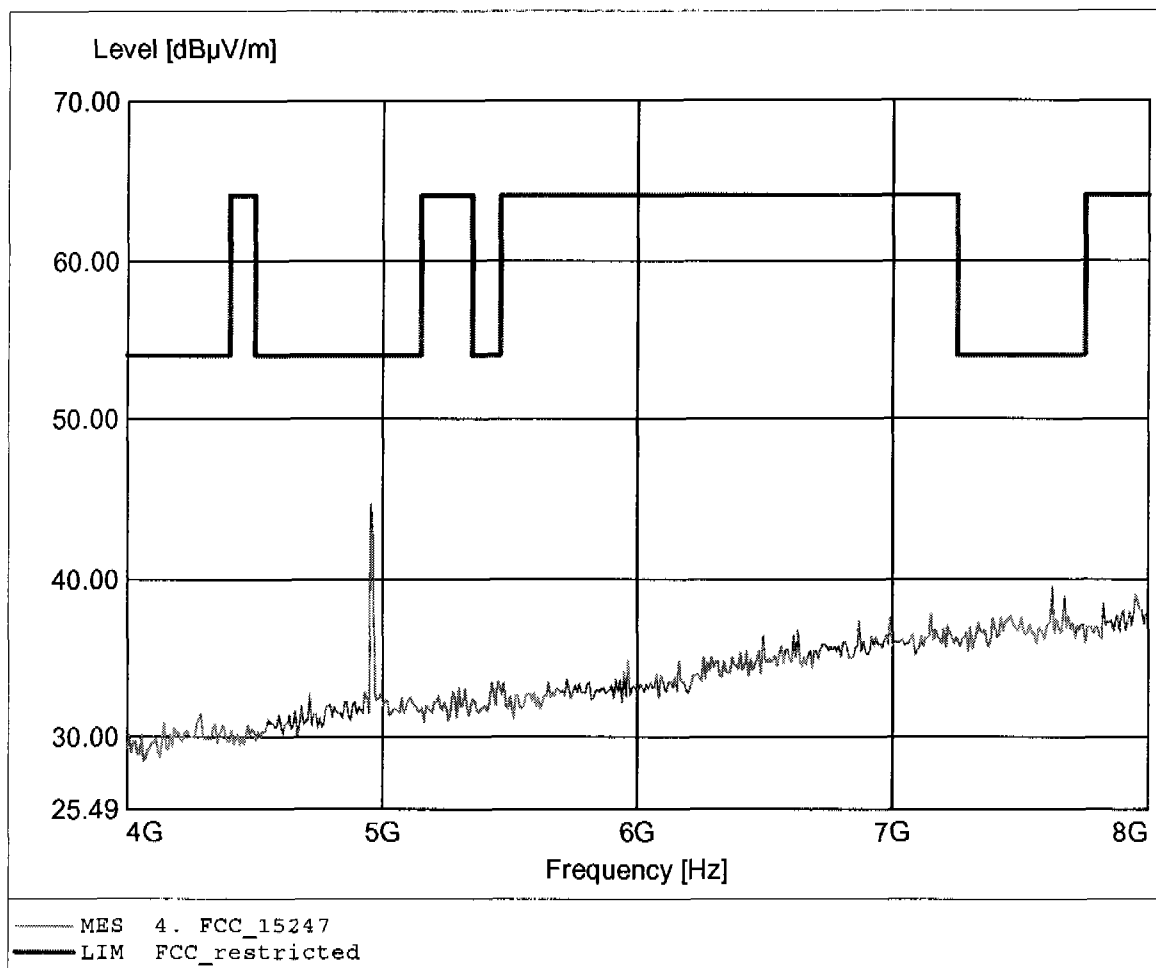
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.954GHz, Emax: 51.11dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

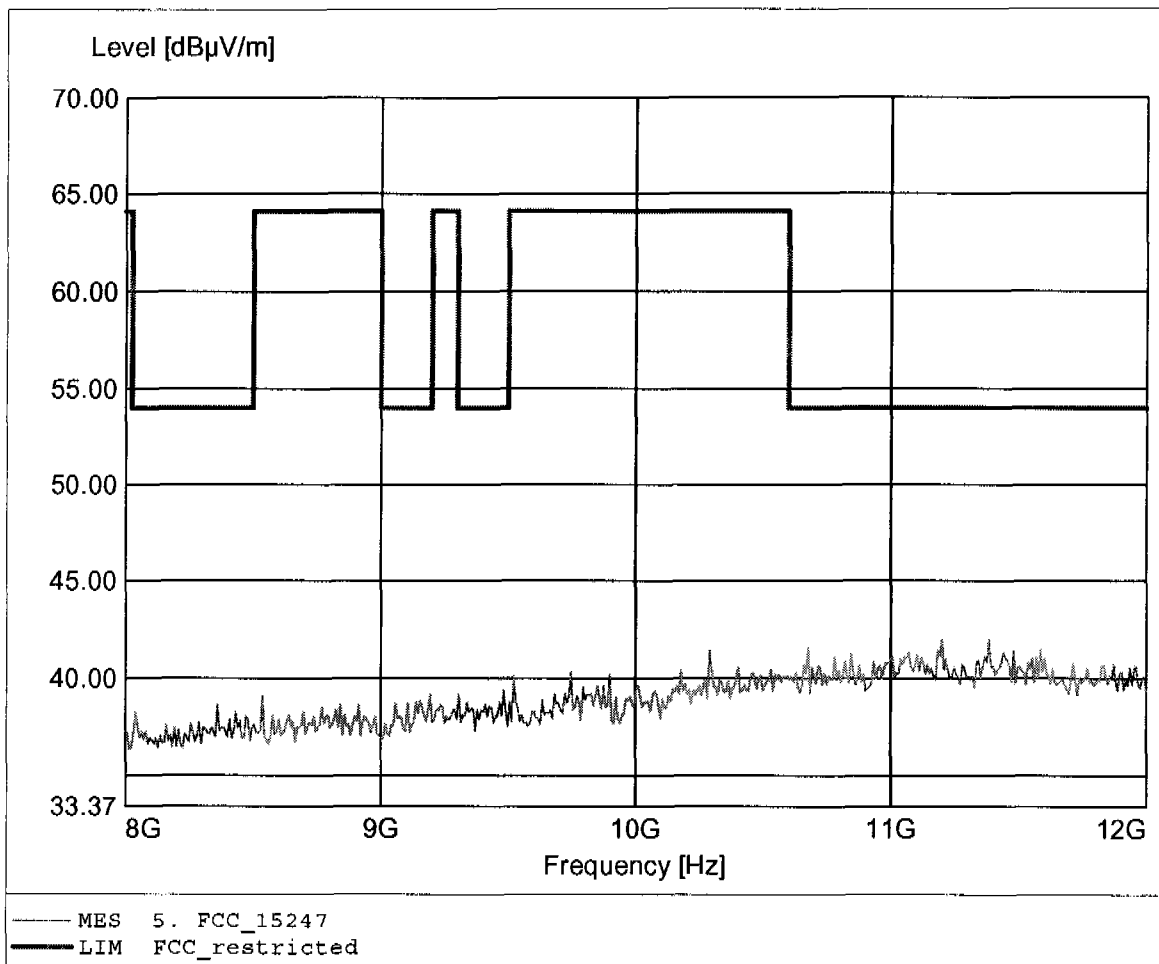
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.954GHz, Emax: 44.70dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

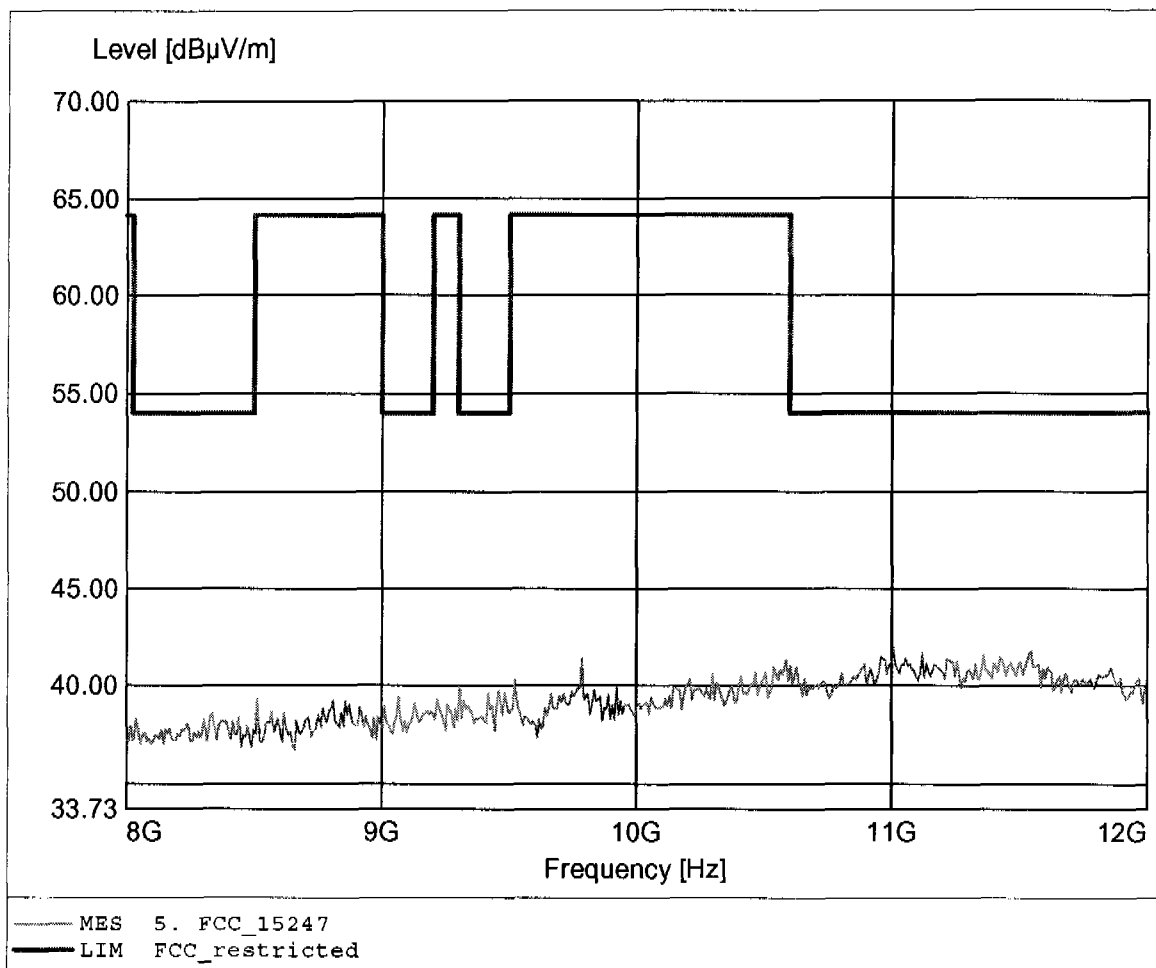
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.383GHz, Emax: 41.98dBµV/m, RBW: 1MHz



# Spurious emissions Field Strength

## FCC RULES PART 15, SUBPART C

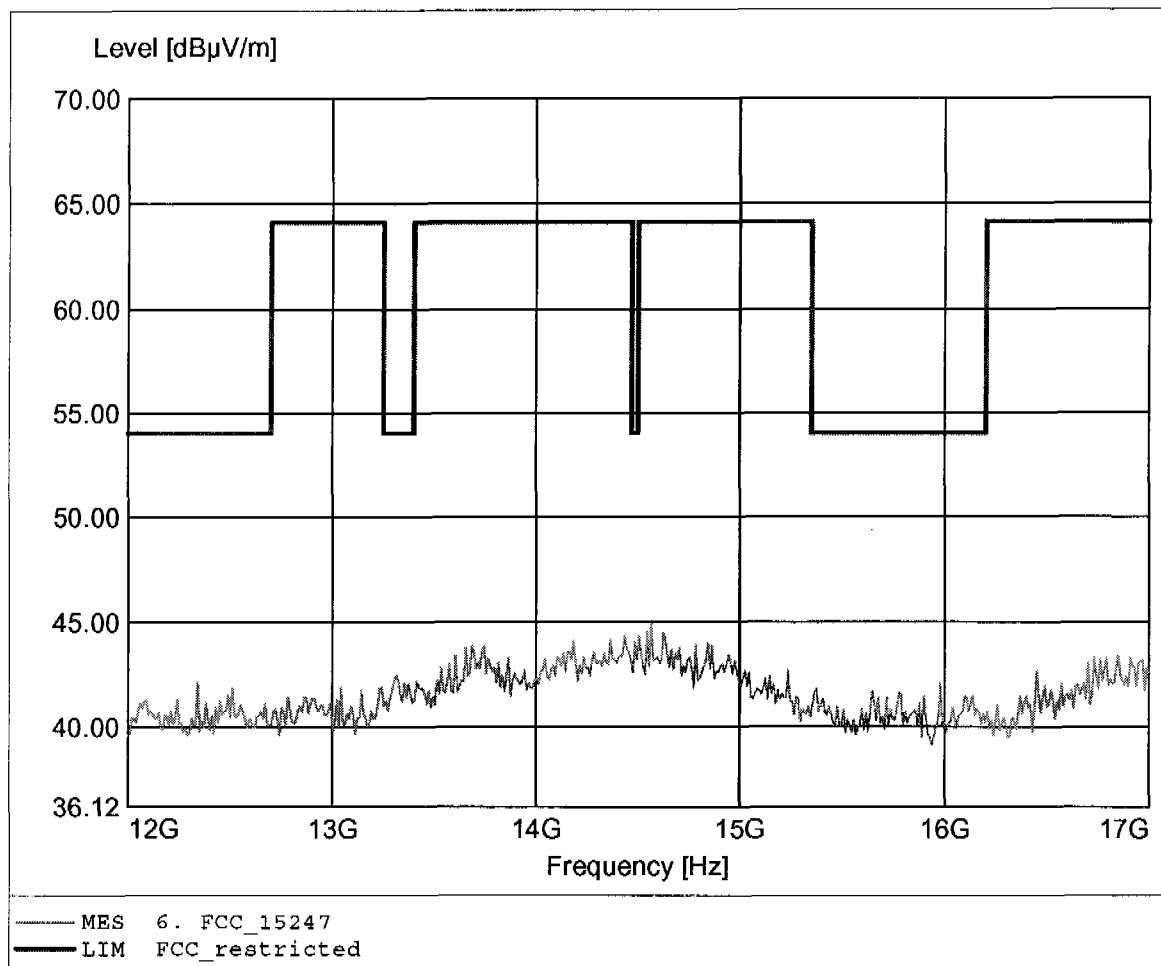
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.006GHz, Emax: 41.94dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

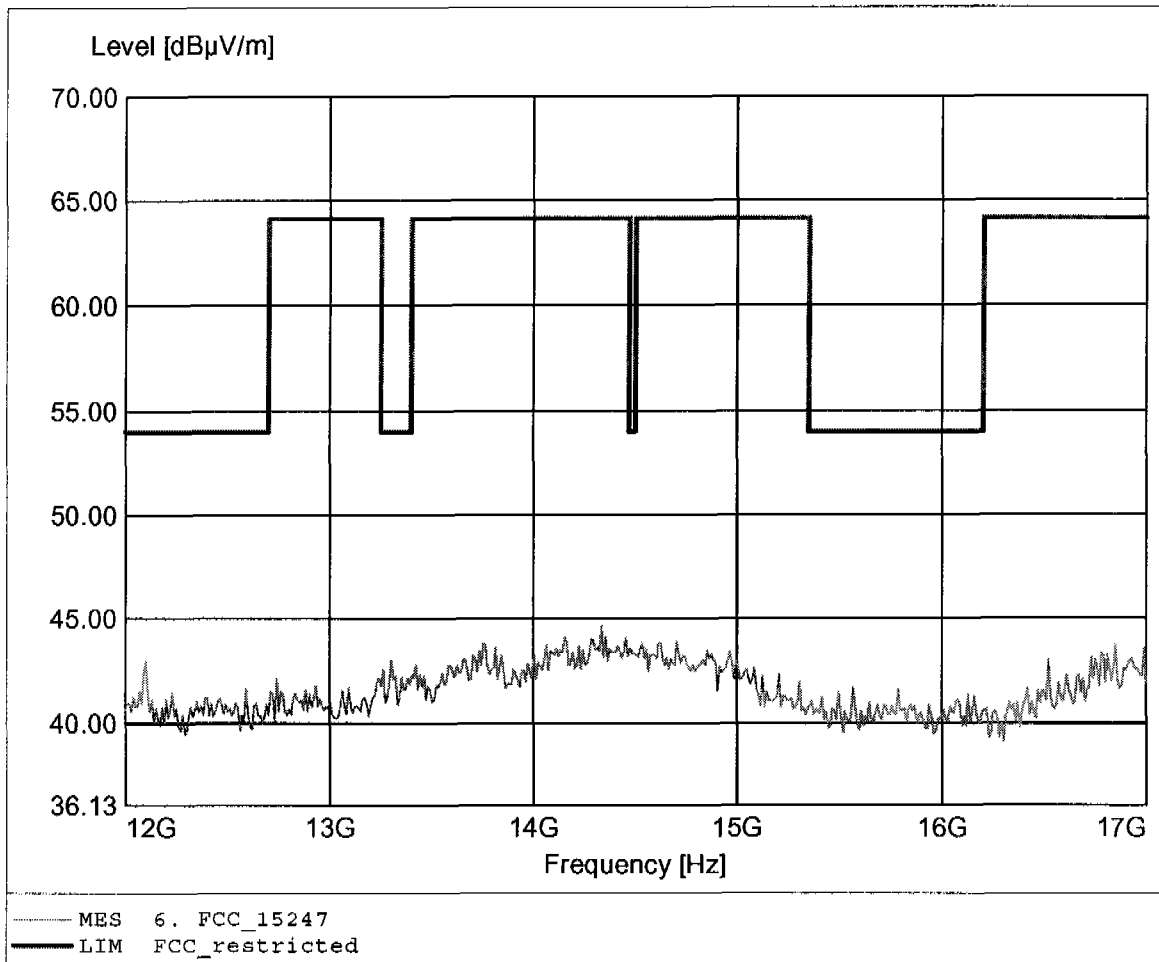
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.565GHz, Emax: 44.95dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

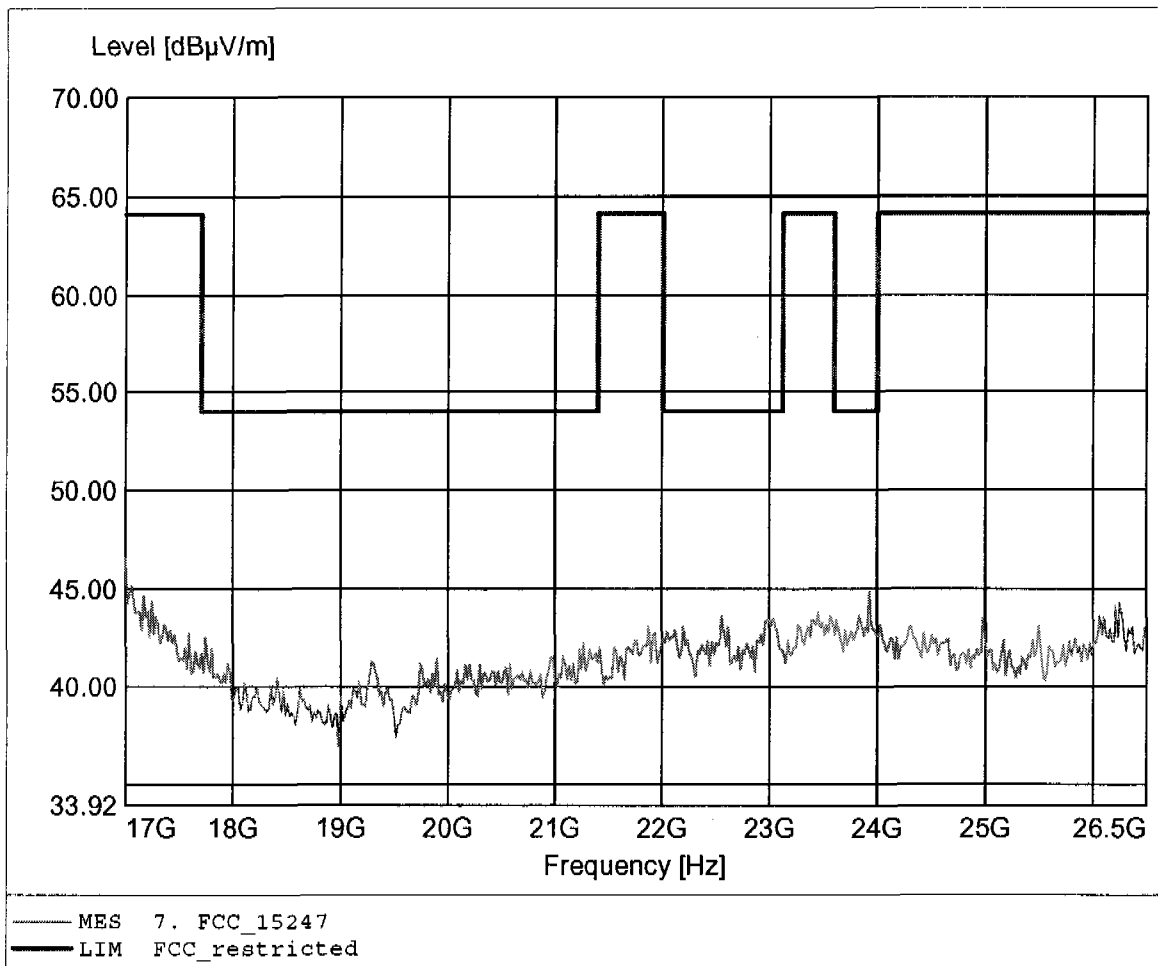
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.335GHz, Emax: 44.64dBuV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

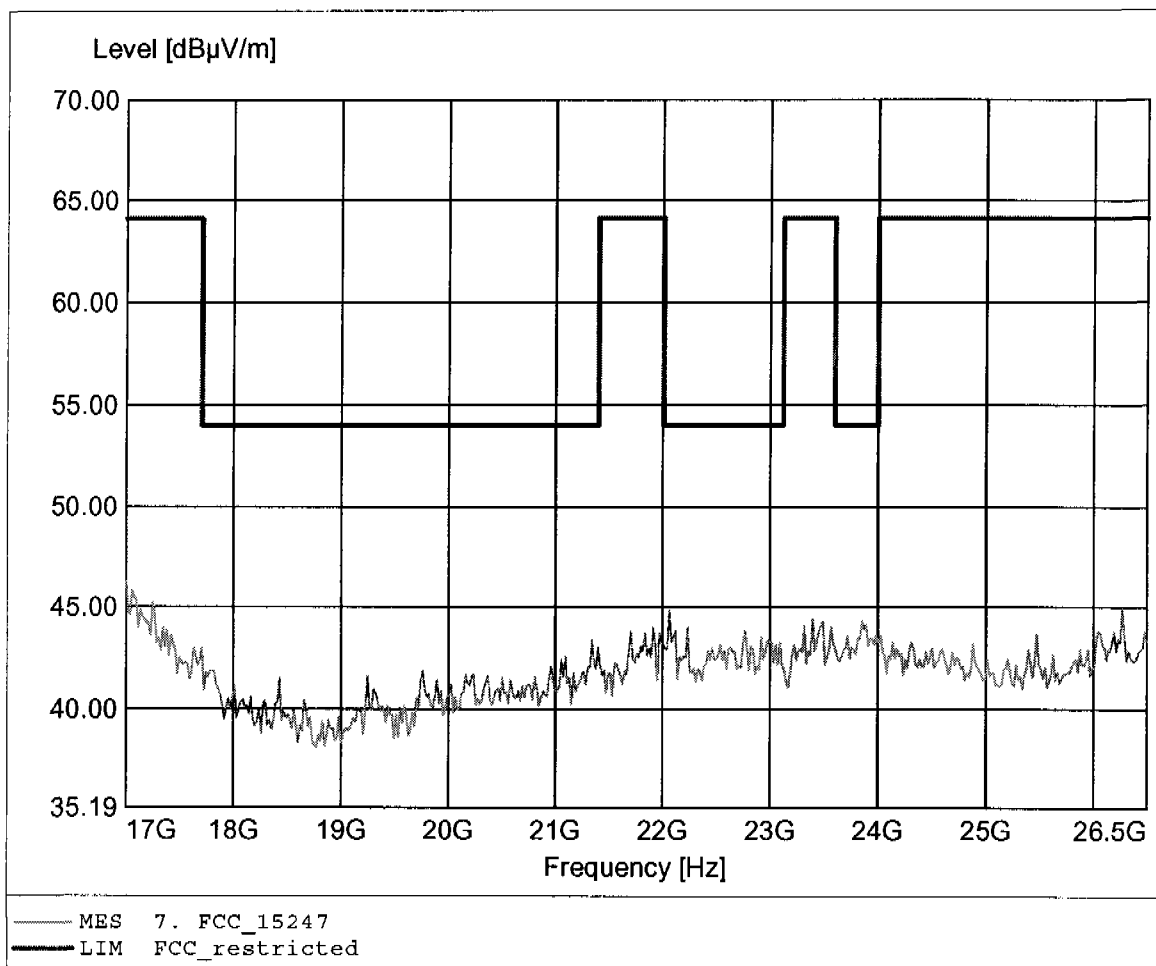
Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.000GHz, Emax: 46.63dBµV/m, RBW: 1MHz



## Spurious emissions Field Strength

### FCC RULES PART 15, SUBPART C

Approval Holder: Raytek GmbH  
EUT: Infrared Thermometer / Pmax. / 2480 MHz  
Model: DFQMX4TD  
Test Site / Operator: ETS / Mr. Hoppe  
Temperature/ Voltage: 25°C / Unom: 7.5 V DC (120 V AC/DC adaptor)  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.000GHz, Emax: 46.32dBuV/m, RBW: 1MHz



## Appendix D

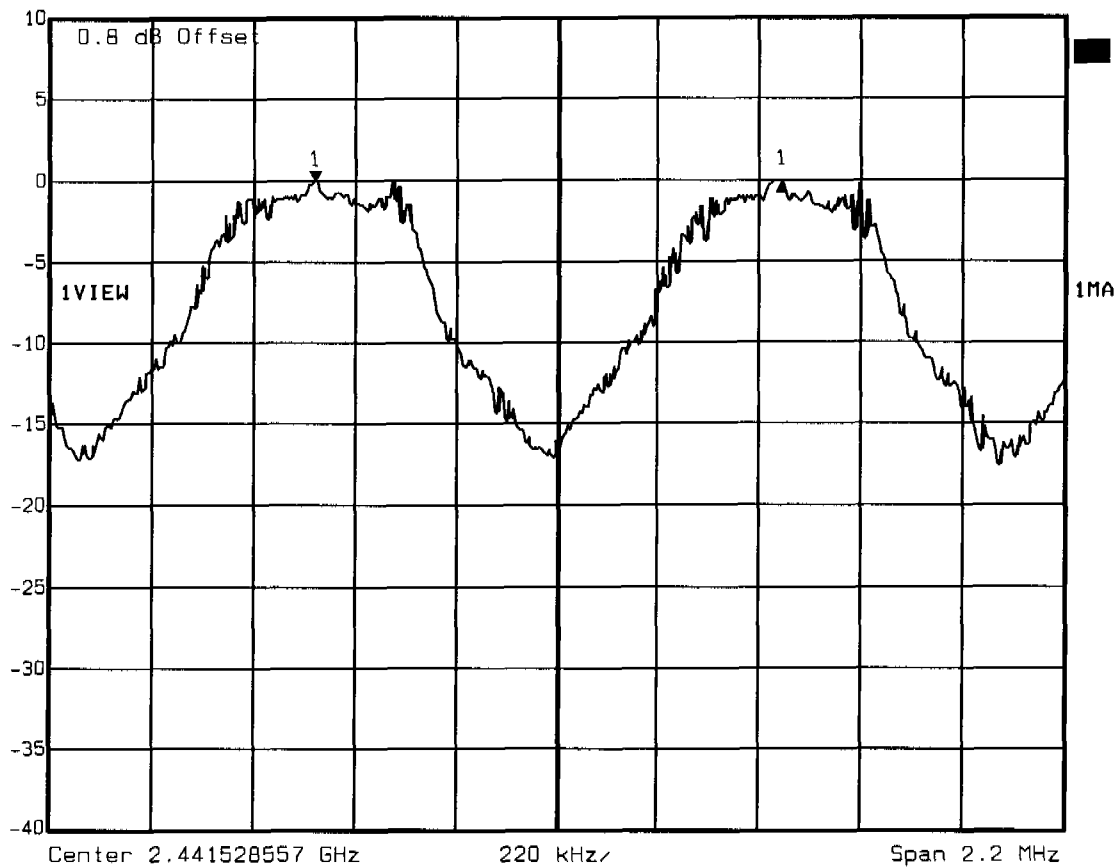
Spurious Emissions conducted - Transmitter operating

## Appendix E

### Carrier Frequency Separation



Delta 1 [T1] RBW 100 kHz RF Att 40 dB  
Ref Lvl -0.05 dB VBW 100 kHz  
10 dBm 1.01402806 MHz SWT 5 ms Unit dBm



Title: Carrier Frequency Separation  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 14:34:17

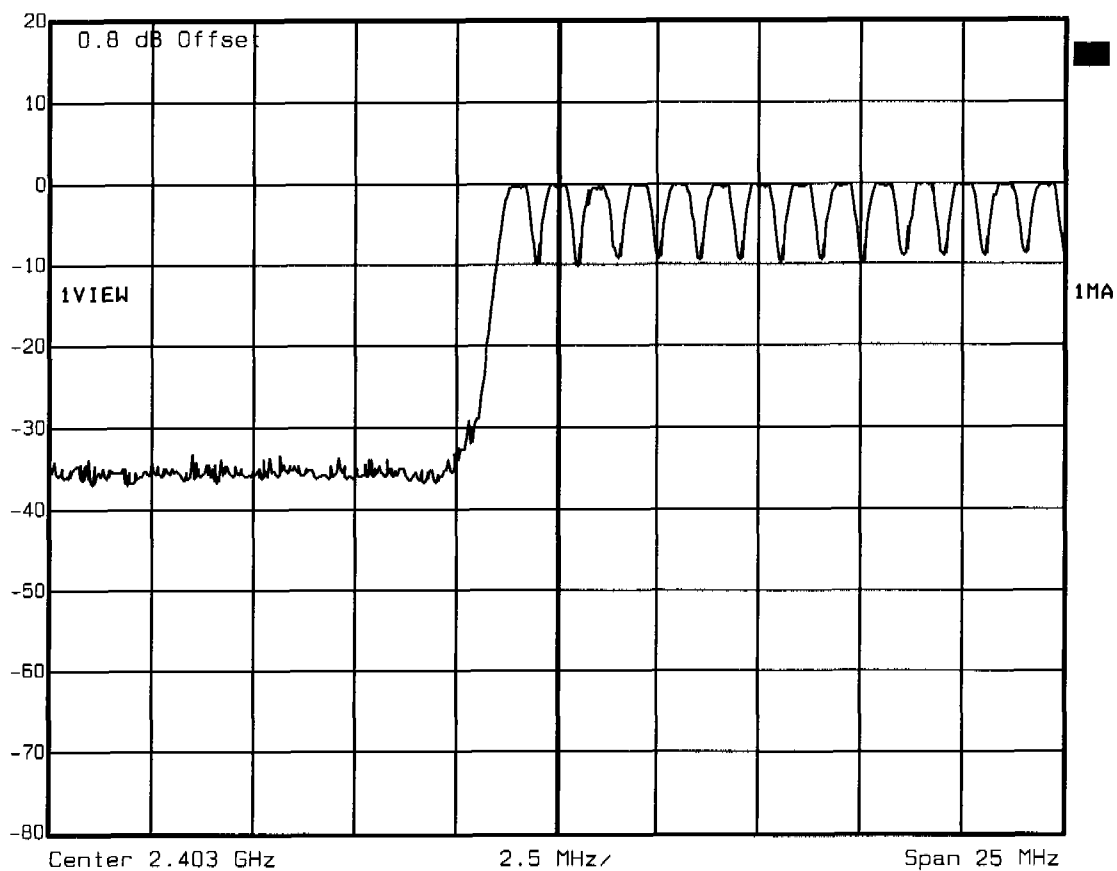
## **Appendix F**

Number of Hopping Frequencies



Ref Lvl  
20 dBm

RBW 300 kHz RF Att 40 dB  
VBW 300 kHz  
SWT 5 ms Unit dBm

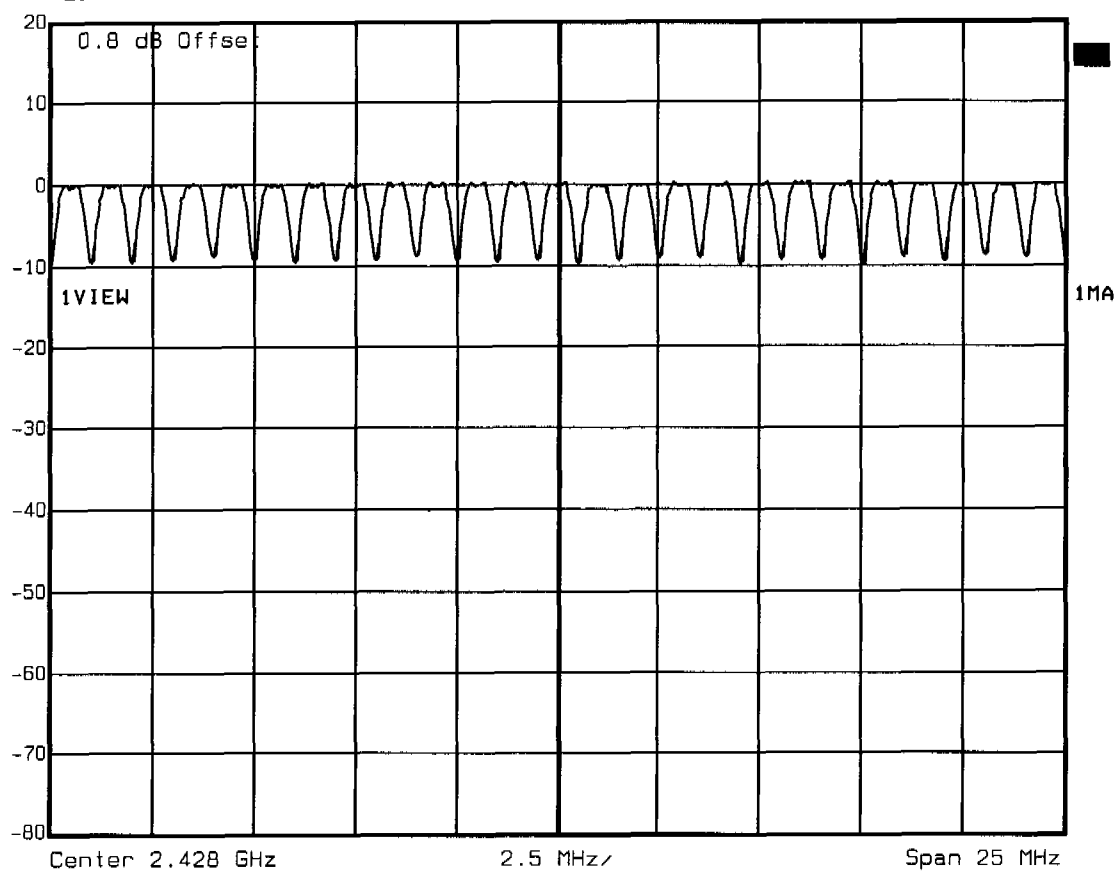


Title: Number of Hopping Frequencies Ch.: 0-13  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 15:23:30



Ref Lvl  
20 dBm

RBW 300 kHz RF Att 40 dB  
VBW 300 kHz  
SWT 5 ms Unit dBm

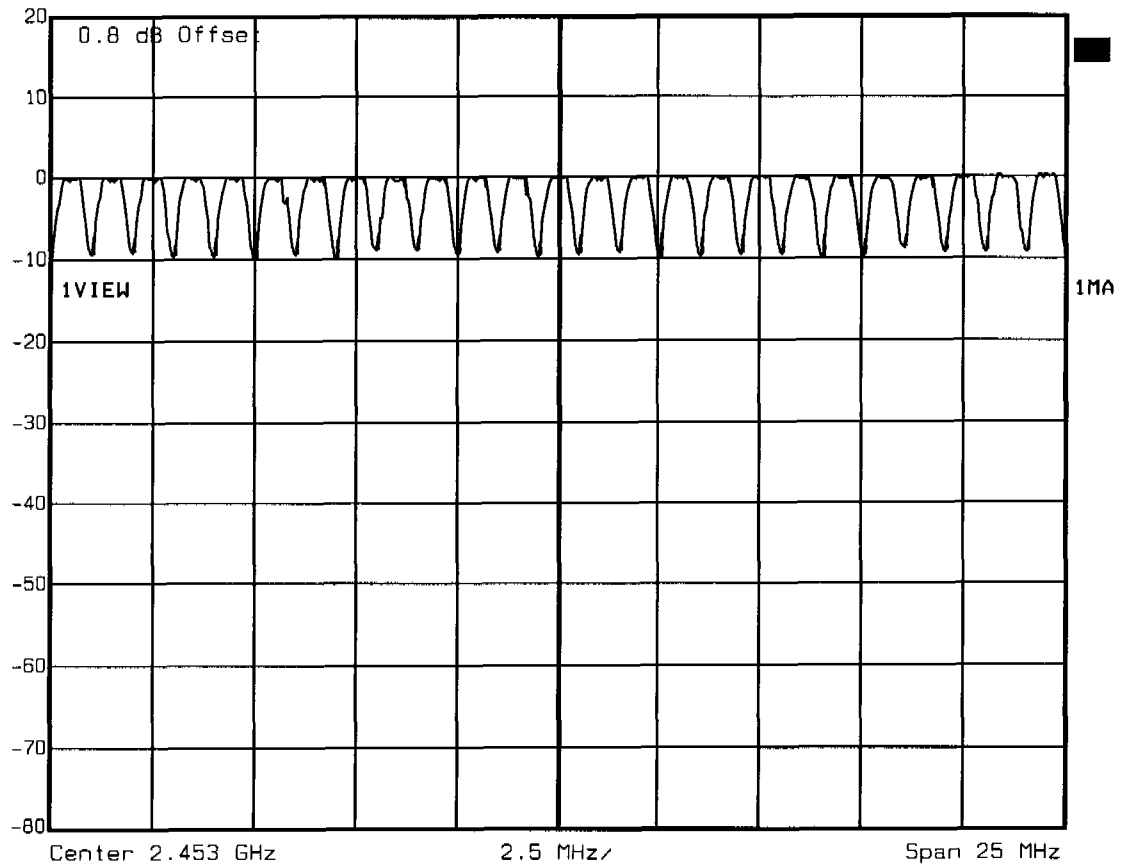


Title: Number of Hopping Frequencies Ch.: 14-38  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 15:25:59



Ref Lvl  
20 dBm

RBW 300 kHz RF Att 40 dB  
VBW 300 kHz  
SWT 5 ms Unit dBm

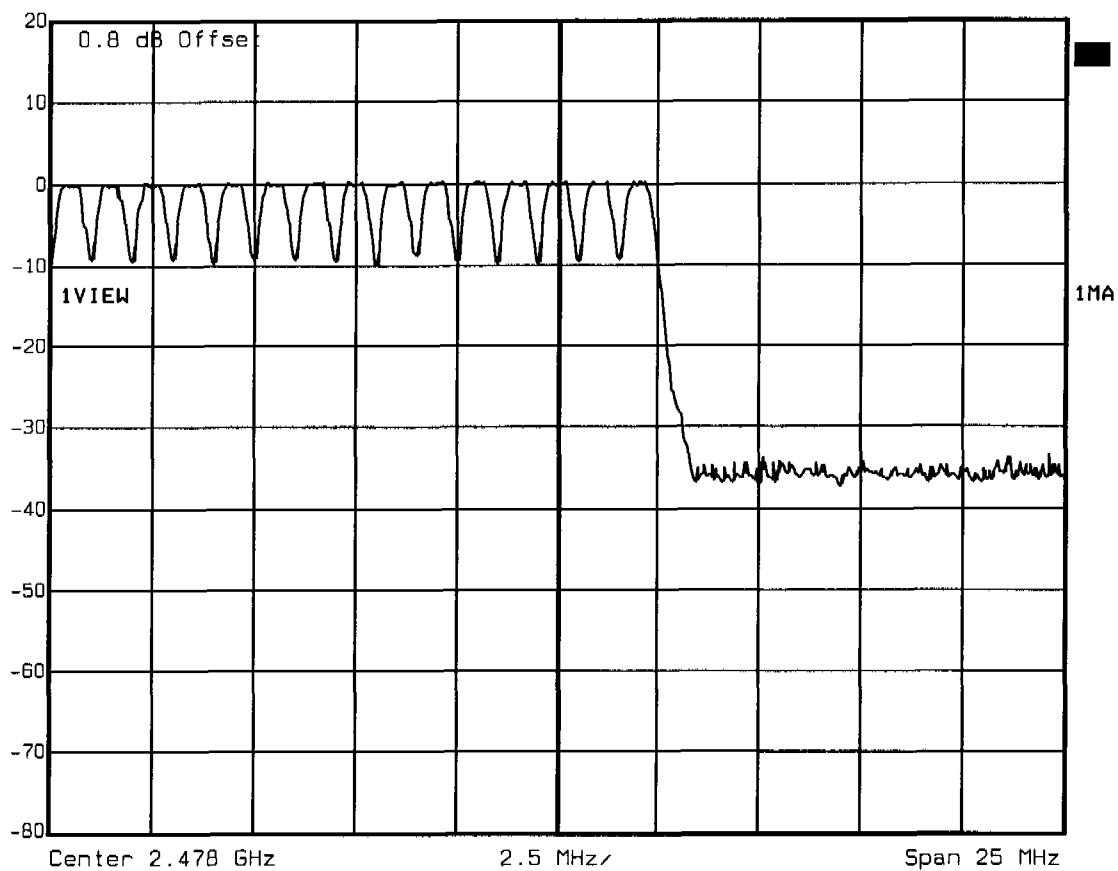


Title: Number of Hopping Frequencies Ch.: 39-63  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 15:28:07



Ref Lvl  
20 dBm

RBW 300 kHz RF Att 40 dB  
VBW 300 kHz  
SWT 5 ms Unit dBm

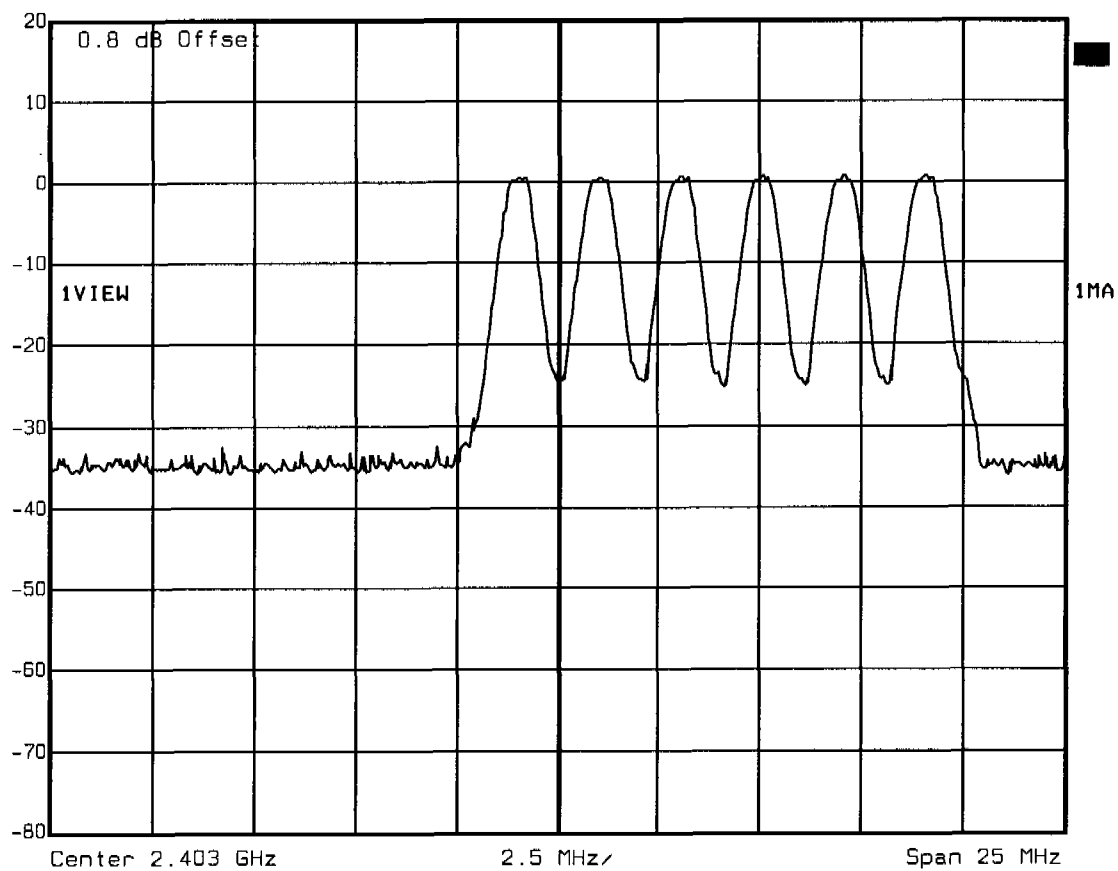


Title: Number of Hopping Frequencies Ch.: 64-78  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 15:31:19



Ref Lvl  
20 dBm

RBW 300 kHz RF Att 40 dB  
VBW 300 kHz  
SWT 5 ms Unit dBm

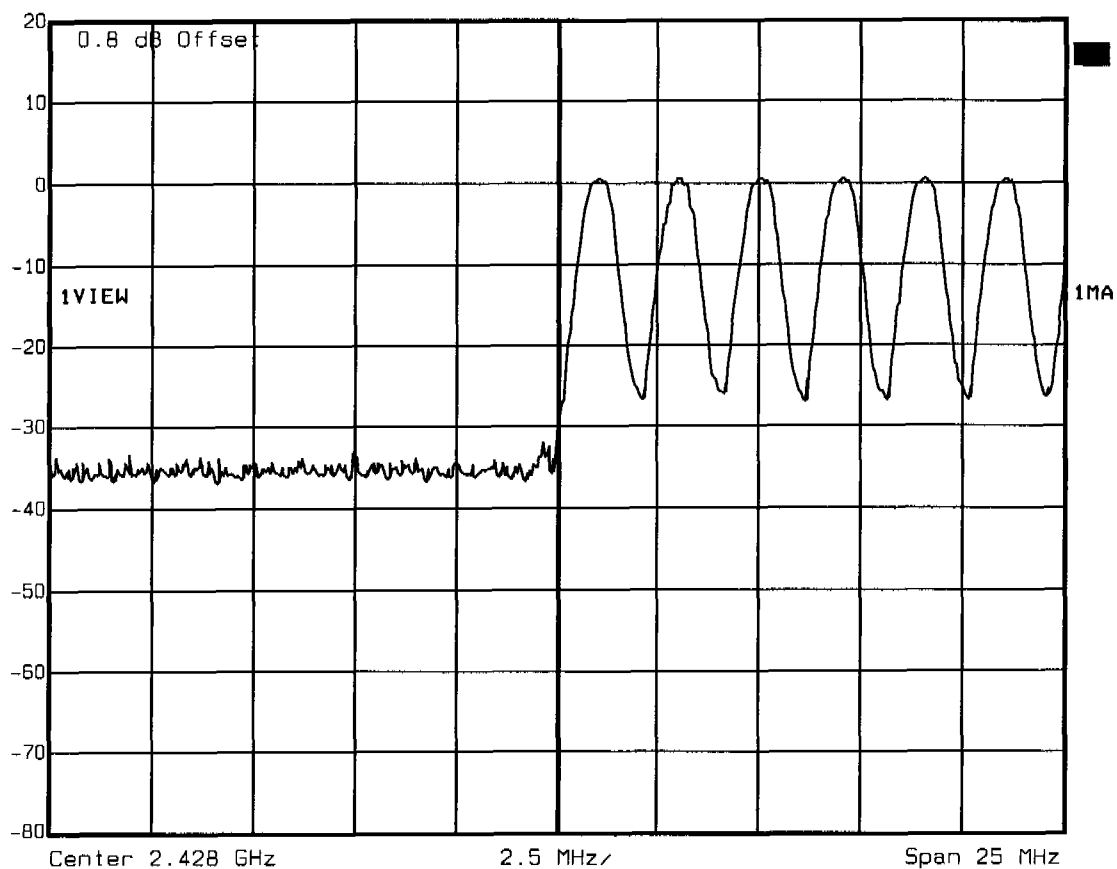


Title: Number of Hopping Frequencies (Master Inquiry Mode)  
Comment A: Infrared Thermometer DFQMX4T0  
Date: 19.JAN.2005 07:37:47



Ref Lvl  
20 dBm

RBW 300 kHz RF Att 40 dB  
VBW 300 kHz  
SWT 5 ms Unit dBm

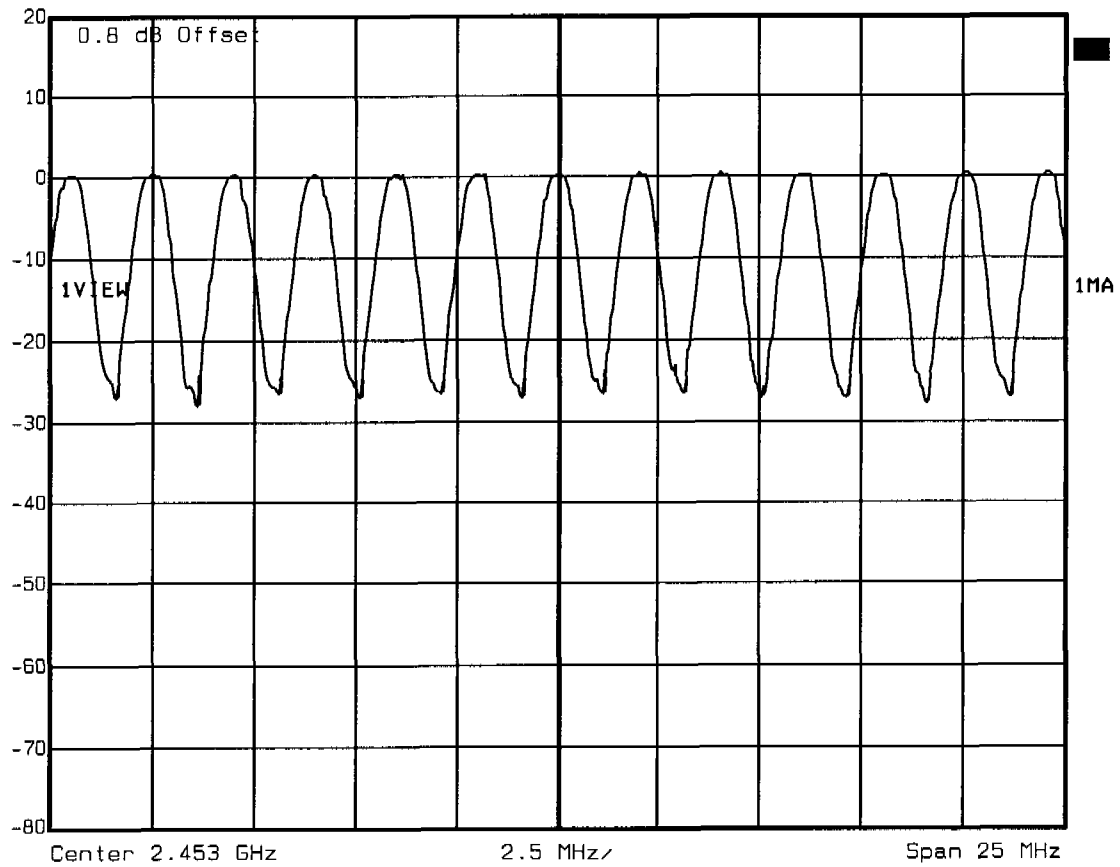


Title: Number of Hopping Frequencies (Master Inquiry Mode)  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 19.JAN.2005 07:41:24



Ref Lvl  
20 dBm

RBW 300 kHz RF Att 40 dB  
VBW 300 kHz  
SWT 5 ms Unit dBm

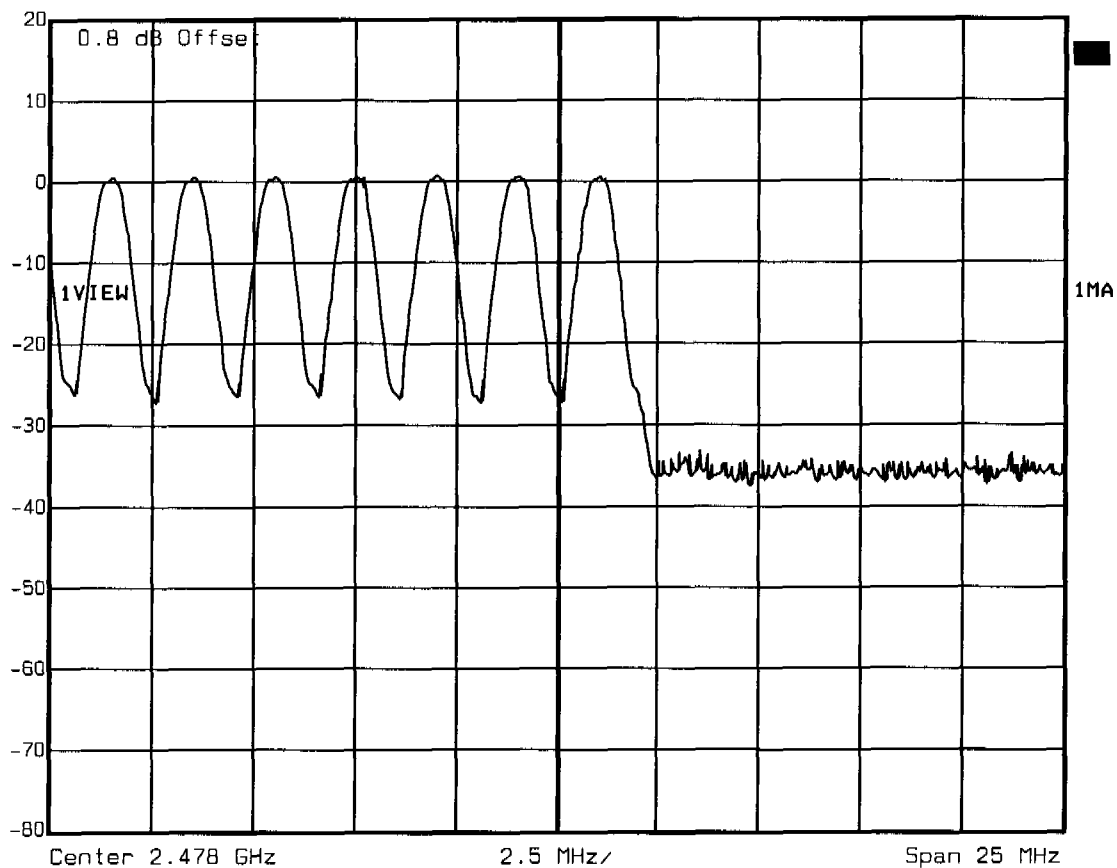


Title: Number of Hopping Frequencies (Master Inquiry Mode)  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 19.JAN.2005 07:44:01



Ref Lvl  
20 dBm

RBW 300 kHz RF Att 40 dB  
VBW 300 kHz  
SWT 5 ms Unit dBm



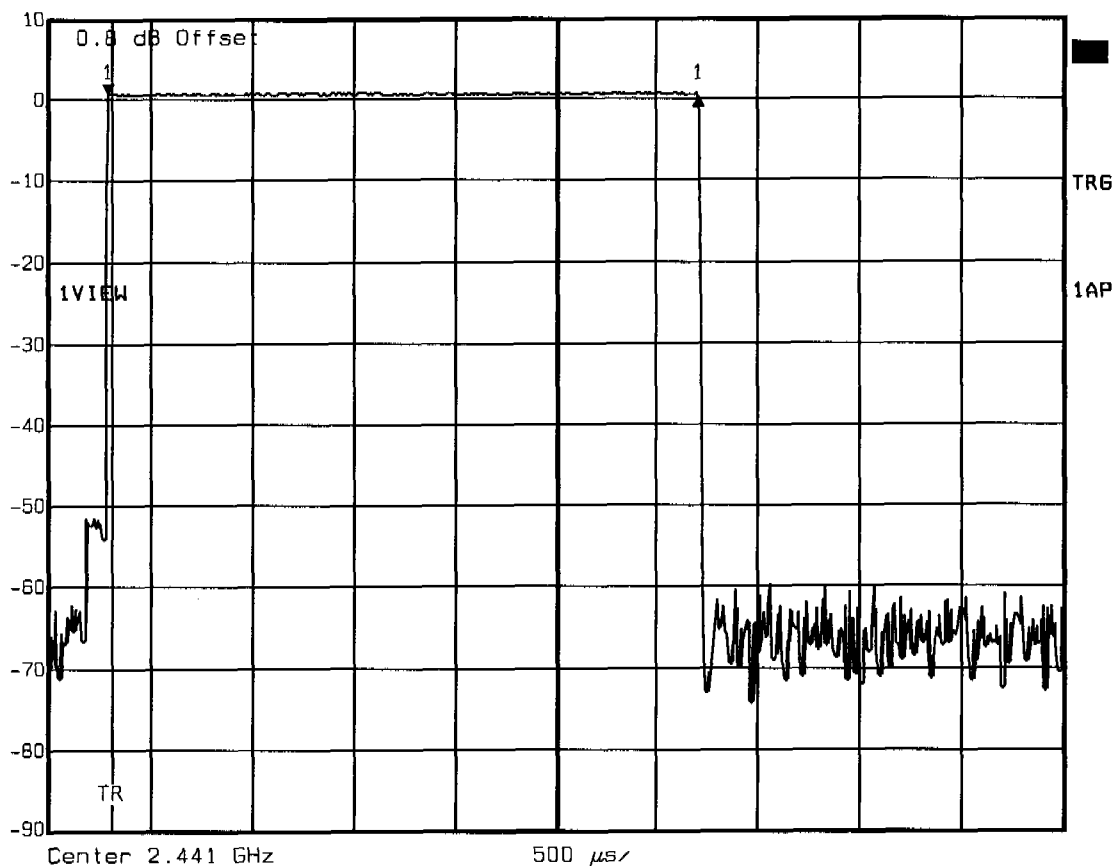
Title: Number of Hopping Frequencies (Master Inquiry Mode)  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 19.JAN.2005 07:48:19

## Appendix G

Time of Occupancy (Dwell Time)



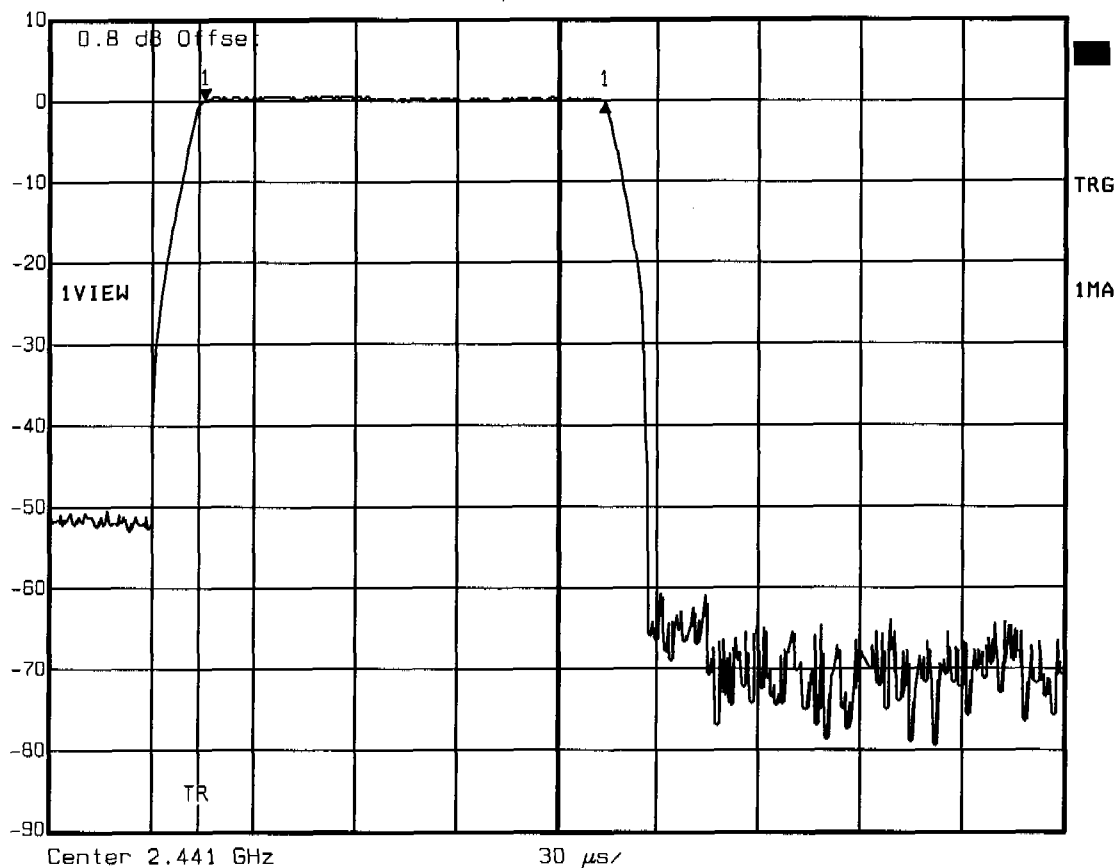
Delta 1 [T1] RBW 1 MHz RF Att 20 dB  
Ref Lvl -0.16 dB VBW 1 MHz  
10 dBm 2.915832 ms SWT 5 ms Unit dBm



Title: Time of occupancy (Hopping DH5) 64 events\*2.916ms=186.62ms  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 19.JAN.2005 06:42:43



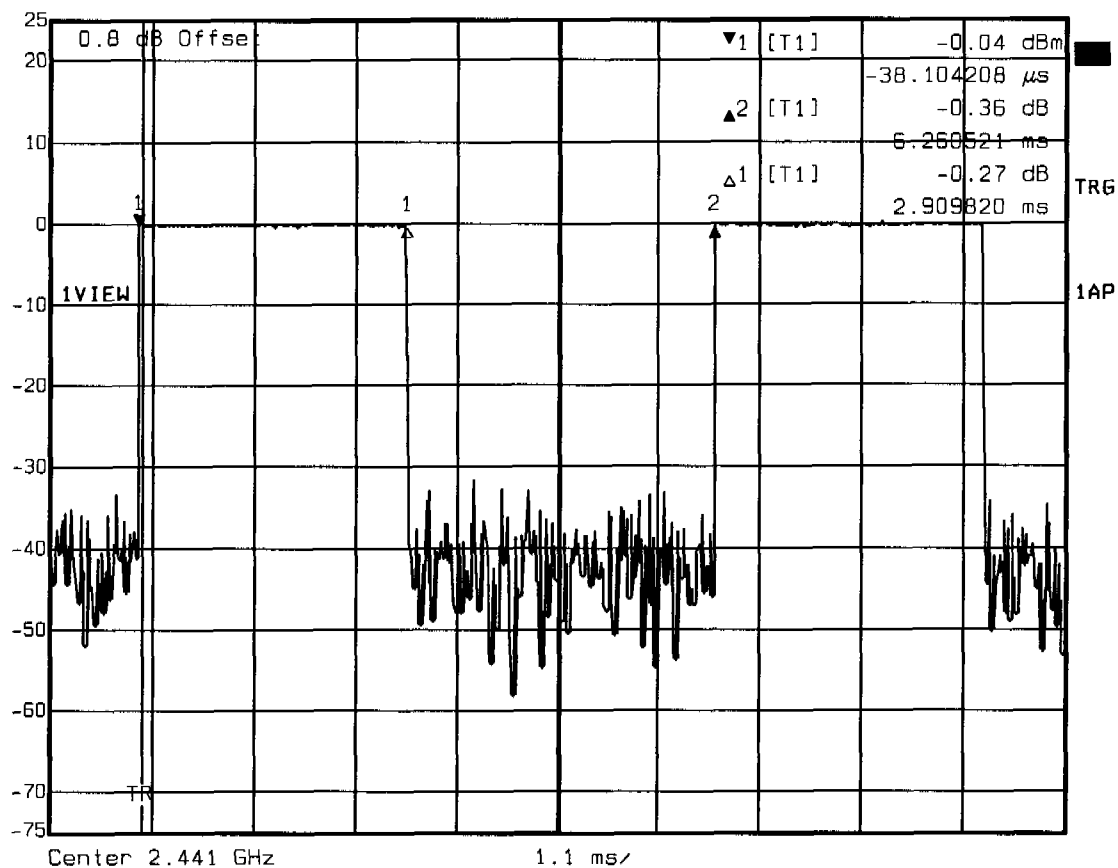
Delta 1 [T1] RBW 1 MHz RF Att 20 dB  
Ref Lvl -0.22 dB VBW 1 MHz  
10 dBm 118.637275  $\mu$ s SWT 300  $\mu$ s Unit dBm



Title: Time of occupancy (Inquiry) 438 events \* 0.118537ms=51.963ms  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 19.JAN.2005 08:13:03



Delta 2 [T1] RBW 1 MHz RF Att 50 dB  
Ref Lvl -0.36 dB VBW 1 MHz  
25 dBm 6.260521 ms SWT 11 ms Unit dBm



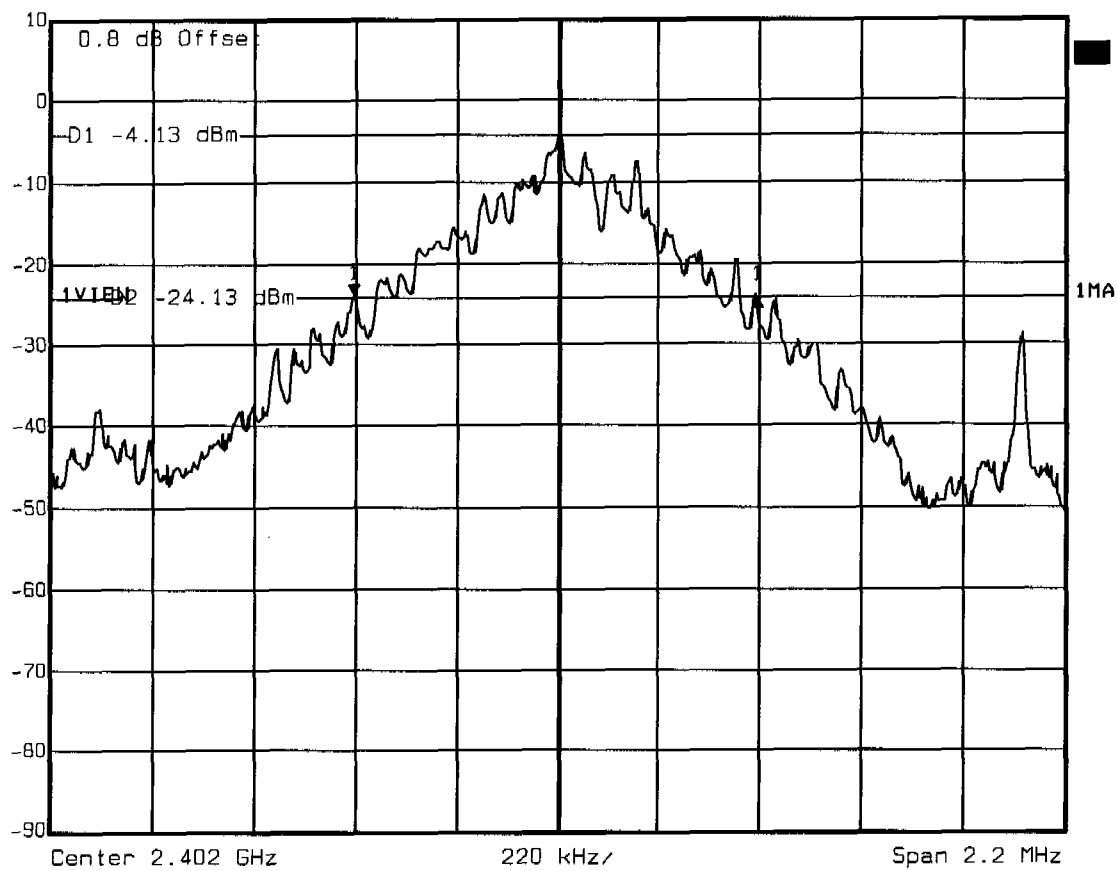
Title: Duty Cycle  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 14:09:58

## Appendix H

20dB Bandwidth



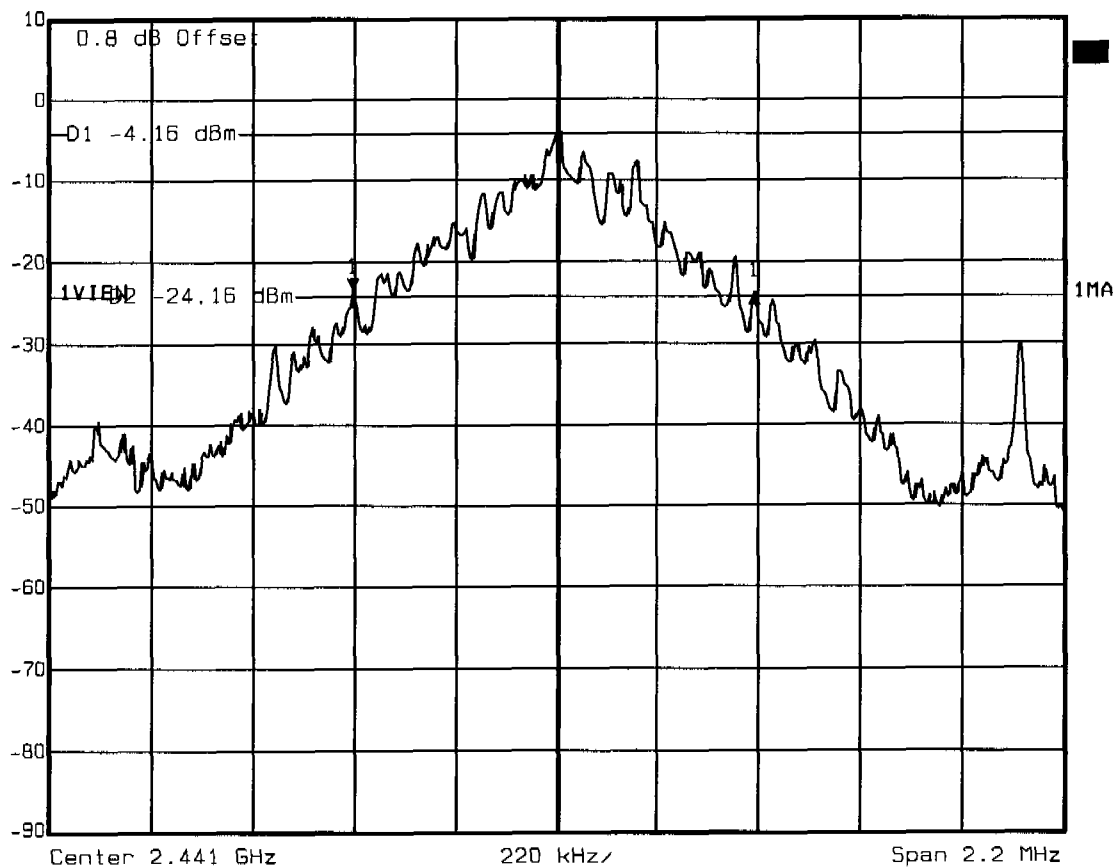
Delta 1 [T1] RBW 10 kHz RF Att 30 dB  
Ref Lvl -0.35 dB VBW 10 kHz  
10 dBm 877.35470942 kHz SWT 56 ms Unit dBm



Title: -20 dB Bandwidth Ch.: 0  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 14:05:43



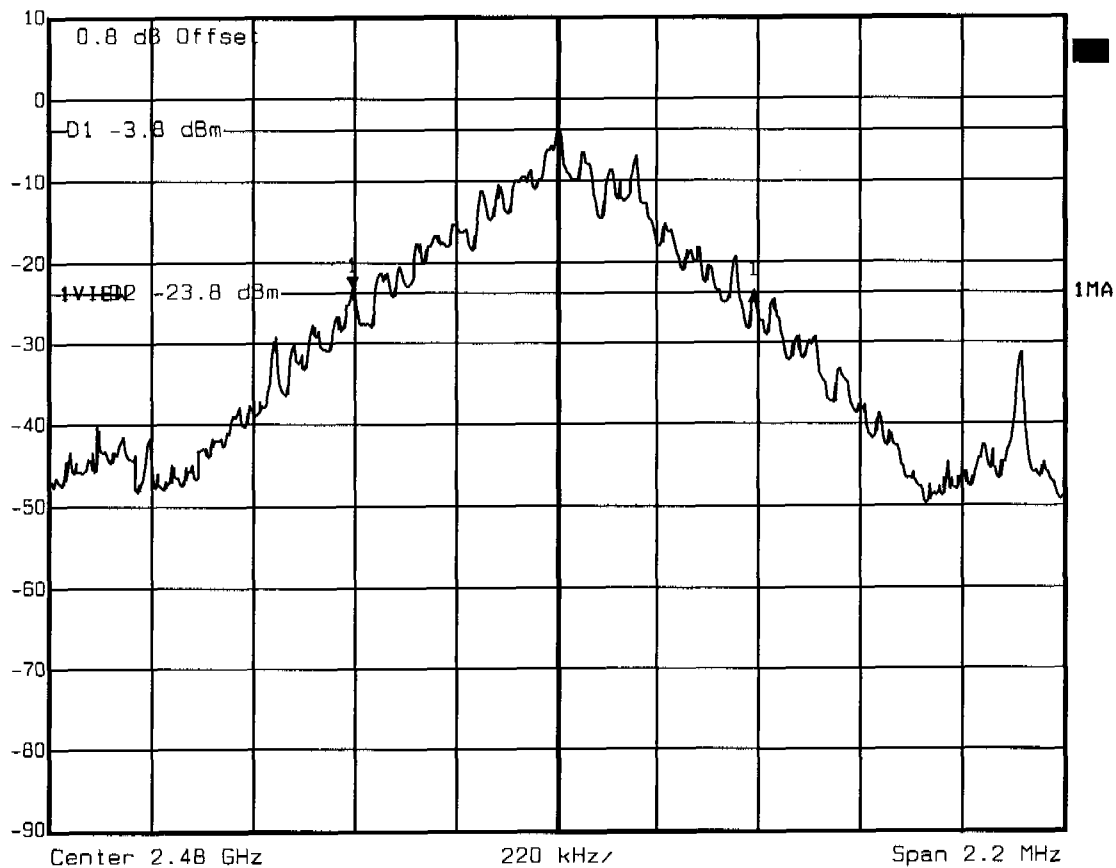
Delta 1 [T1] RBW 10 kHz RF Att 30 dB  
Ref Lvl -0.41 dB VBW 10 kHz  
10 dBm 872.94589178 kHz SWT 56 ms Unit dBm



Title: -20 dB Bandwidth Ch.: 39  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 14:03:34



Delta 1 [T1] RBW 10 kHz RF Att 30 dB  
Ref Lvl -0.35 dB VBW 10 kHz  
10 dBm 872.94589178 kHz SWT 56 ms Unit dBm



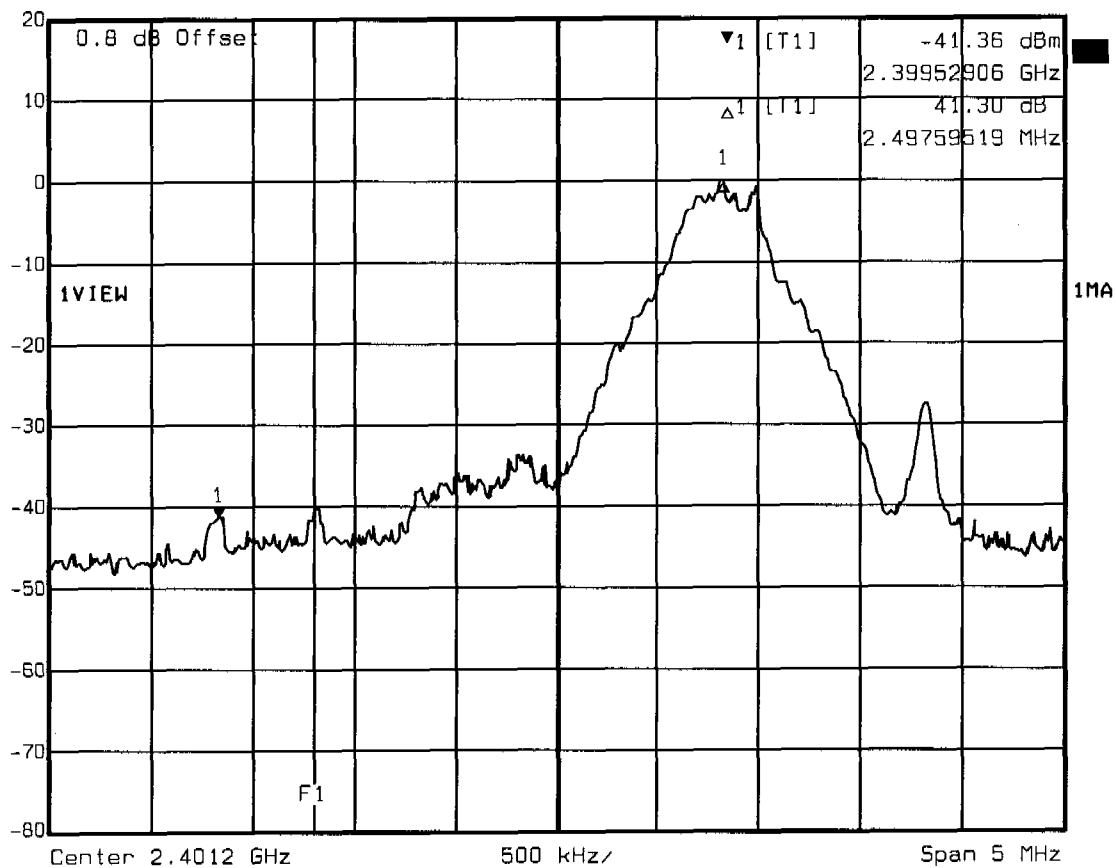
Title: -20 dB Bandwidth Ch.: 78  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 14:01:26

## Appendix I

### Band-edge Compliance of RF Emissions



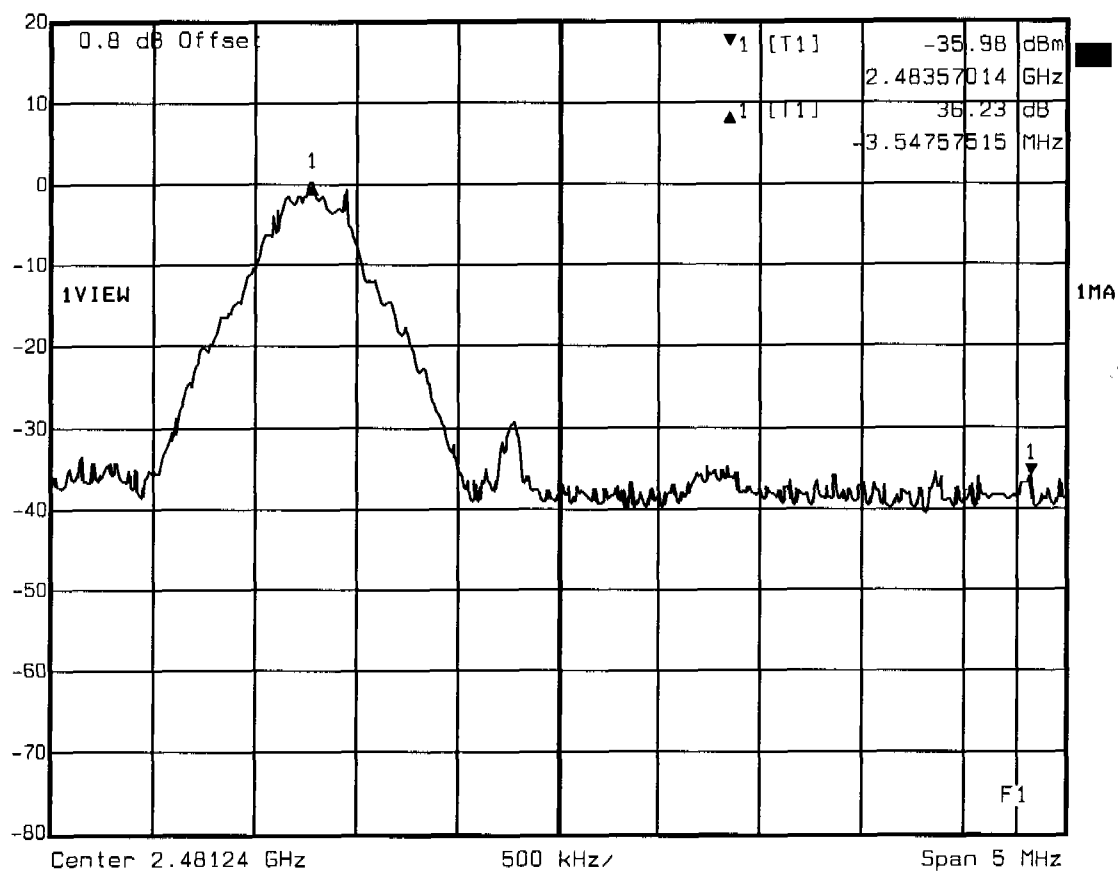
Marker 1 [T1] RBW 50 kHz RF Att 40 dB  
Ref Lvl -41.36 dBm VBW 50 kHz  
20 dBm 2.39952906 GHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, single frequency)  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 14:14:15



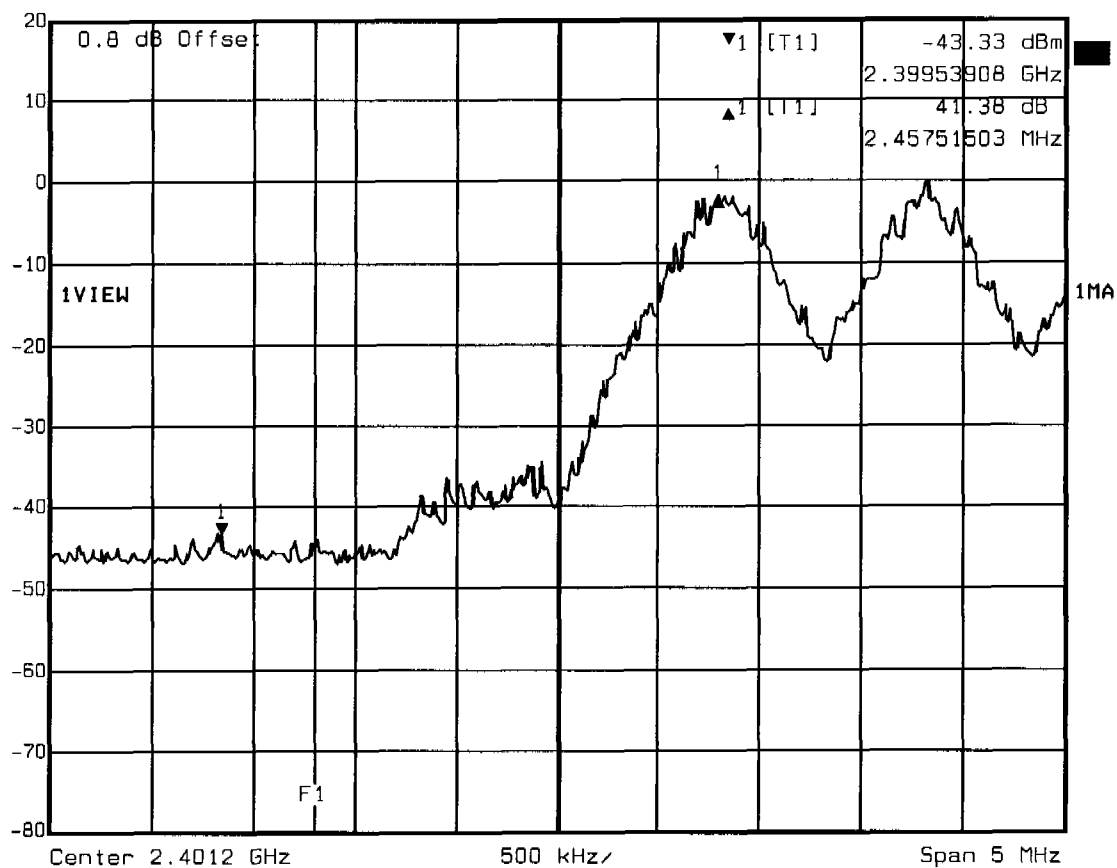
Delta 1 [T1] RBW 50 kHz RF Att 40 dB  
Ref Lvl 36.23 dB VBW 50 kHz  
20 dBm -3.54757515 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, single frequency)  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 14:16:37



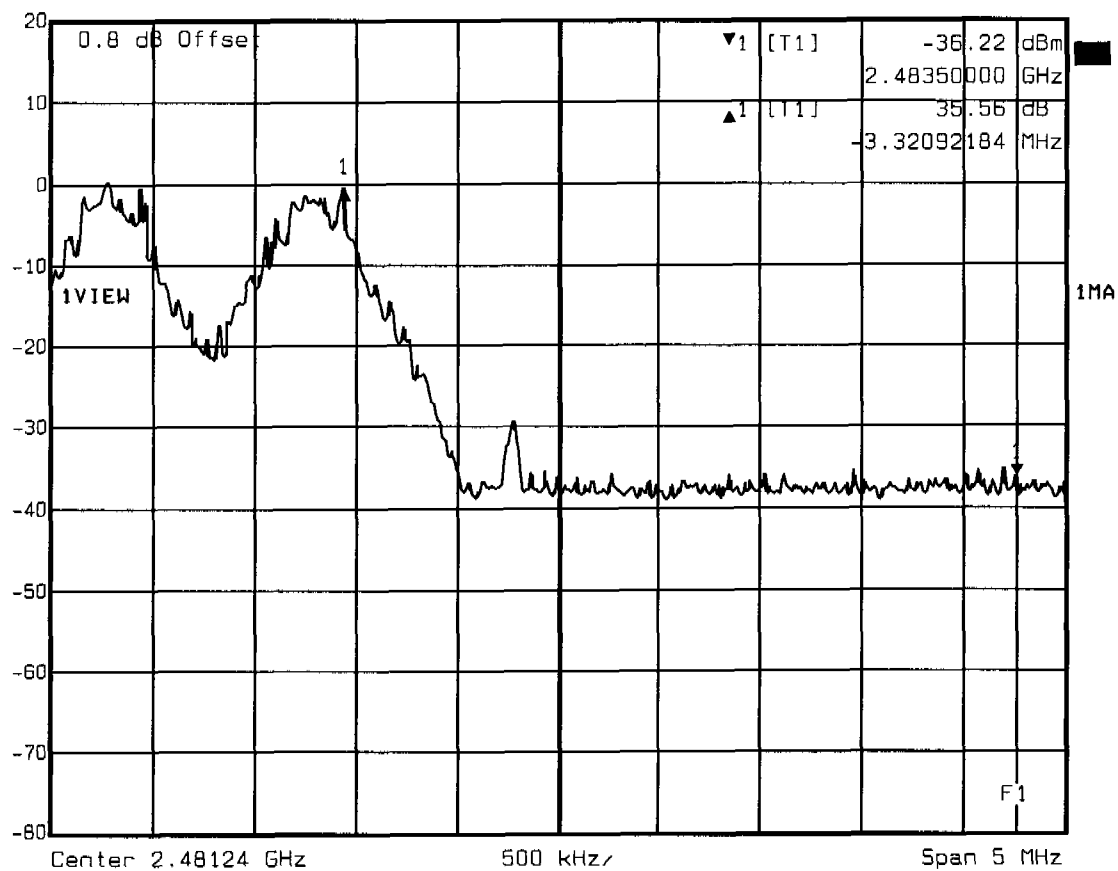
Delta 1 [T1] RBW 50 kHz RF Att 40 dB  
Ref Lvl 41.38 dB VBW 50 kHz  
20 dBm 2.45751503 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, hopping mode)  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 15:08:50



Delta 1 [T1] RBW 50 kHz RF Att 40 dB  
Ref Lvl 35.56 dB VBW 50 kHz  
20 dBm -3.32092184 MHz SWT 5 ms Unit dBm



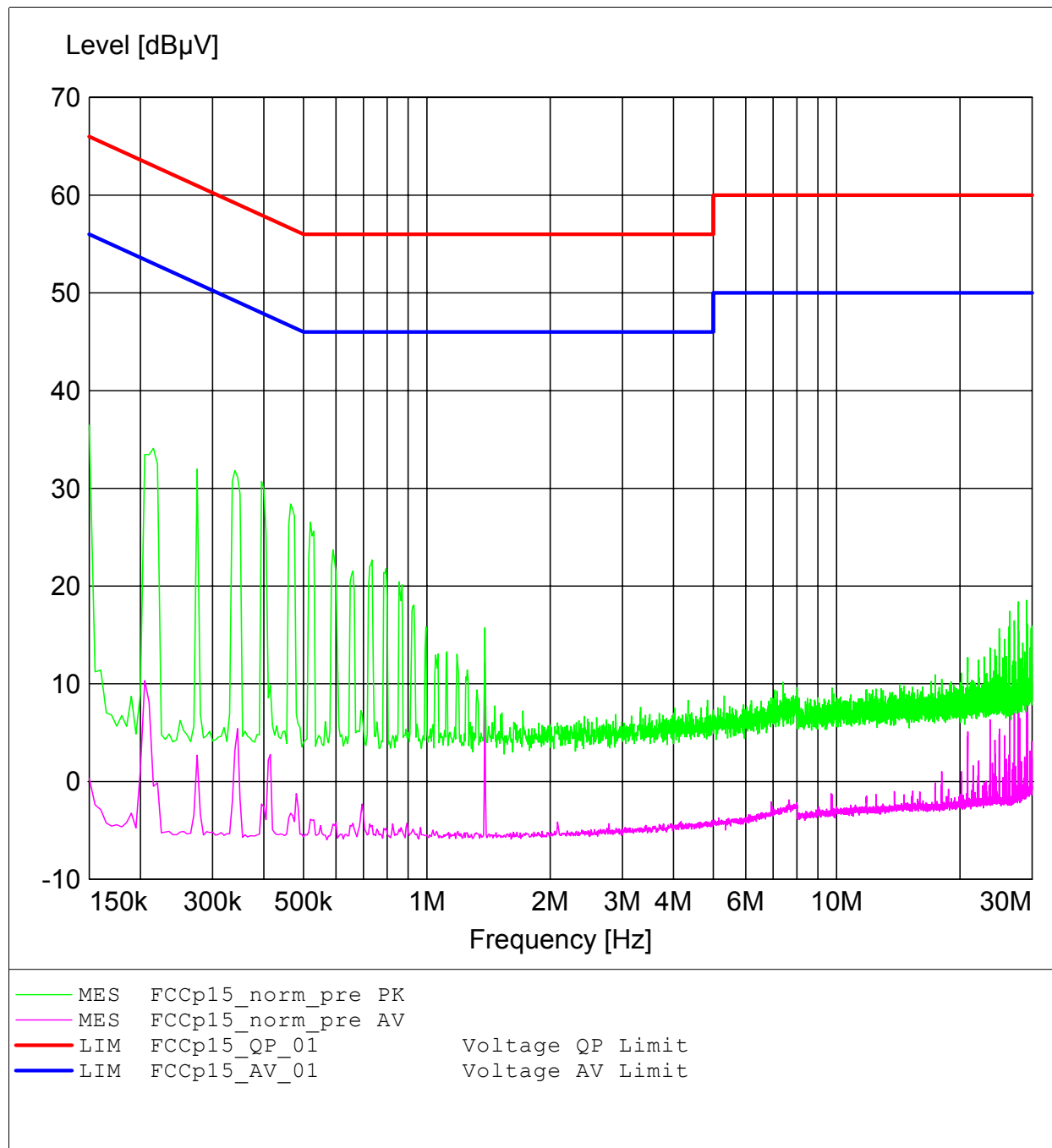
Title: Band-edge Compliance (conducted, hopping mode)  
Comment A: Infrared Thermometer DFQMX4TD  
Date: 18.JAN.2005 15:17:11

## **Appendix J**

### Conducted Measurement at (AC) Power Line

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

EUT: INFRARED THERMOMETER  
Manufacturer: RAYTEK GmbH  
Operating Condition: Unom: 120 V AC (AC/DC-ADAPTOR) , Tnom: 23°C  
Test Site: ETS  
Operator: Mr. Pflug  
Test Specification: V-Network: ESH2-Z5 (L1)  
Comment: model: DFQMX4TD



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

EUT: INFRARED THERMOMETER  
Manufacturer: RAYTEK GmbH  
Operating Condition: Unom: 120 V AC (AC/DC-ADAPTOR) , Tnom: 23°C  
Test Site: ETS  
Operator: Mr. Pflug  
Test Specification: V-Network: ESH2-Z5 (N)  
Comment: model: DFQMX4TD

