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Issued test report consists of 61 Pages

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FCC LISTED, REG. NO.: 101450 & RECOGNIZED BY INDUSTRY CANADA IC – 3925

Test report no.:180FCC15.247/2001 FCC Part 15.247 FCC ID: NM8ROSELLA (PE2030)



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- **1** General information
- 1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM Inc. USA does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM Inc USA.

TEST REPORT PREPARED BY:

EMC & Radio Engineer: Harpreet Sidhu

1.2 Testing laboratory

CETECOM Inc.

411 Dixon Landing Road, Milpitas, CA-95035, USA Phone: +1 408 586 6200 Fax: +1 408 586 6299 E-mail: lothar.schmidt@cetecomusa.com



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Internet: www.cetecom.com

Details of applicant 1.3

| Name | : | High Tech Computer Corp. |
|-----------|---|----------------------------------|
| Street | : | 9F,6-3, Bau-Chian Rd., Hsin Tien |
| City | : | Taipei 231 |
| Country | : | Taiwan |
| Contact | : | Jesse Kuo |
| Telephone | : | +886 2 8912 4138 ext. 8391 |
| Telefax | : | +886 2 8912 4136 |
| e-mail | : | Jesse_kuo@htc.com.tw |

Application details 1.4

| Date of receipt of application | : 2001-08-01 |
|------------------------------------|-----------------|
| Date of receipt of test item : 200 | 1-08-16 |
| Date of test | : 2001-08-16/17 |

Test item 1.5

| Manufacturer | : | applicant |
|--------------|---|---------------------------------------|
| Name of EUT | : | Pocket PC |
| Description | : | Pocket PC with Bluetooth(TM) function |
| Model No. | : | PE2030 |
| Serial No. | : | N/A |
| FCC ID | : | NM8ROSELLA |

| Additional informations | 6 | |
|-------------------------|---|-----------------------------|
| Frequency | : | 2402 – 2480 MHz |
| Type of modulation | : | GFSK BT=0.5 |
| Number of channels | : | 79 |
| Antenna | : | Internal L Type Antenna |
| Power supply | : | 100-240 VAC 0.4A 50/60 Hz |
| Output power | : | 0 dBm |
| Extreme Vol. Limits | : | 3.8VDC - 4.2VDC |
| Extreme Temp. Limits | : | 0°C - +60°C |
| H/W & S/W | : | AX01 & 0.89 |

FCC Part 15 §15.247 1.6 Test standards:



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- 2 Technical test
- 2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

Technical responsibility for area of testing :

2001-08-23

EMC & Radio

Lothar Schmidt

ldunide

Date Signature Section

Name



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2.2 Testreport

TEST REPORT

Test report no. : 180FCC15.247/2001 FCC ID: NM8ROSELLA (PE2030)



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TEST REPORT REFERENCE

LIST OF MEASUREMENTS

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Antenna Gain

SUBCLAUSE § 15.204

The max gain is +0.773dBi

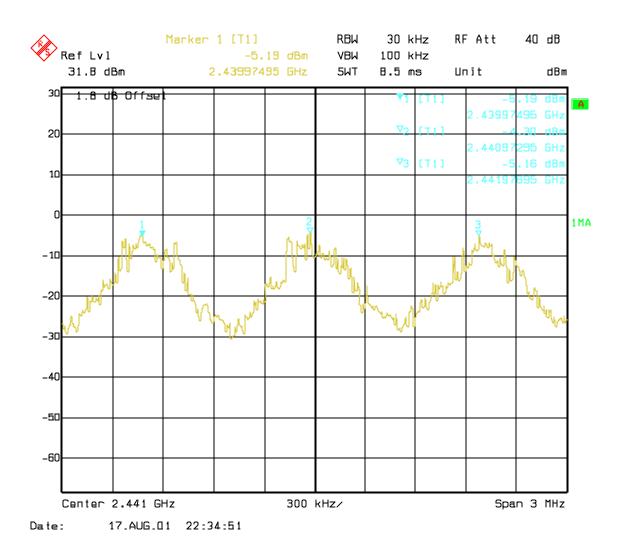
(measured effectiv radiated power – measured conducted power with a temporary RF-connector)



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CARRIER FREQUENCY SEPERATION

§15.247(a)





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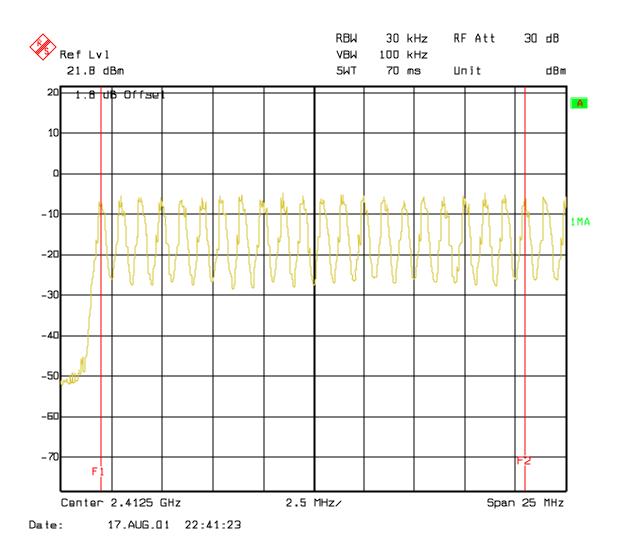
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NUMBER OF HOPPING CHANNELS

§15.247(a)

The number of hopping channels is 79 (see next 4 plots) The right red line corresponds to the left red line from the next plot.

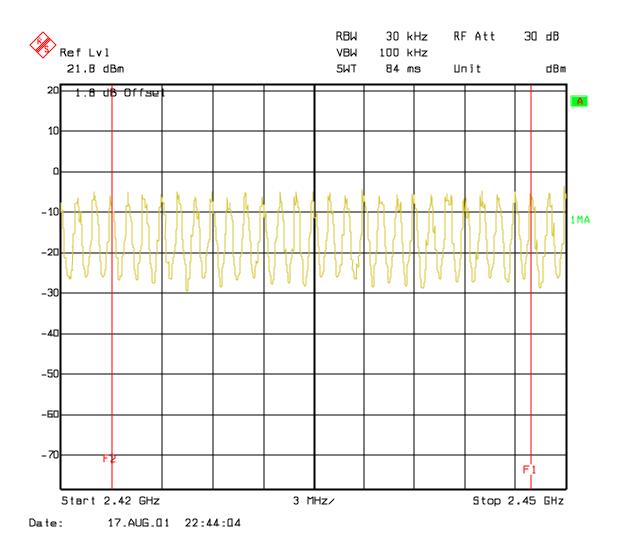
Plot 1:





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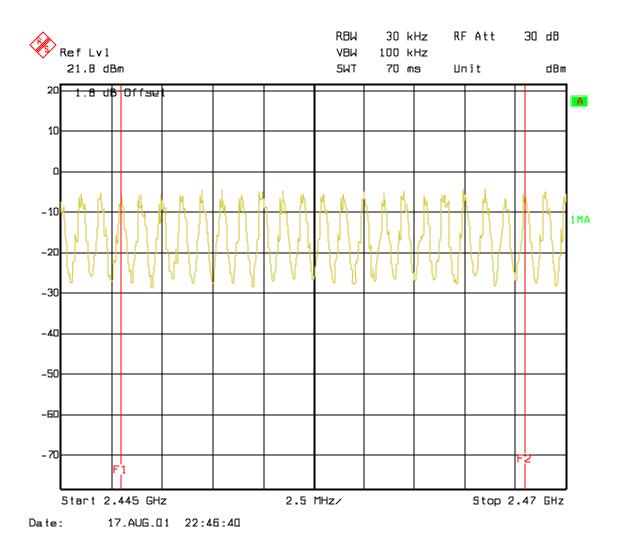
Plot 2:





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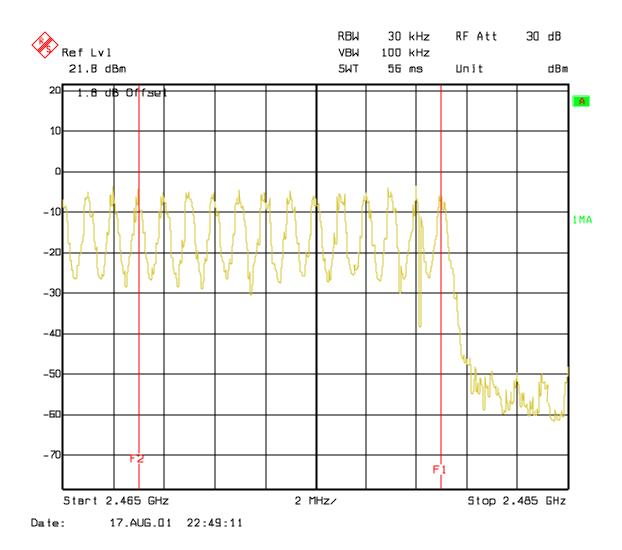
Plot 3:





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Plot 4:





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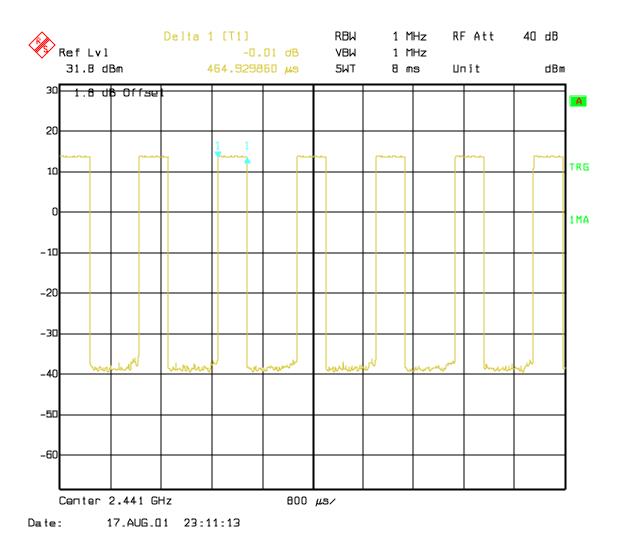
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TIME OF OCCUPANCY (DWELL TIME) FOR DH1

§15.247(a)

The system makes worst case 1600 hops per second or 1 time slot has a length of 625μ s with 79 channels. A DH1 Packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 800 hops per second with 79 channels. So you have each channel 10.13 times per second and so for 30 seconds you have 303.9 times of appearence . Each Tx-time per appearence is 464.92 μ s.

So we have 303.9 * 464.92 µs = 141.29 ms per 30 seconds.





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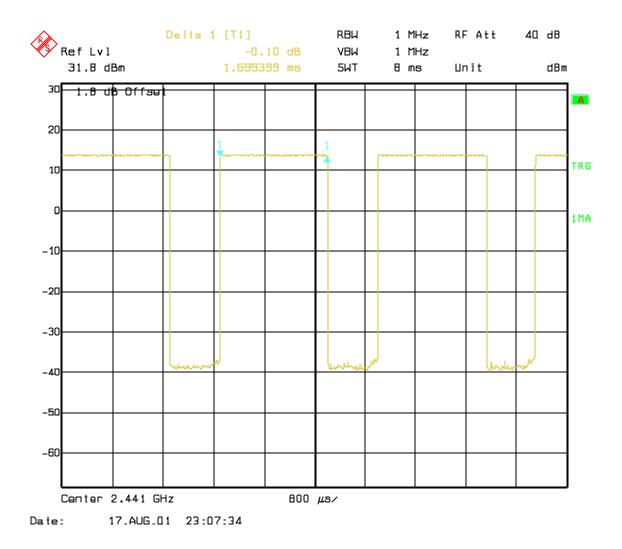
TIME OF OCCUPANCY (DWELL TIME) FOR DH3

§15.247(a)

A DH3 Packets need 3 time slots for transmit and 1 for receicing, then the system makes worst case 400 hops per second with 79 channels. So you have each channel 5.1 times per second and so for 30 seconds you have 153 times of appearence .

Each Tx-time per appearence is 1.7 ms.

So we have 153 * 1.7 ms = 260 ms per 30 seconds.



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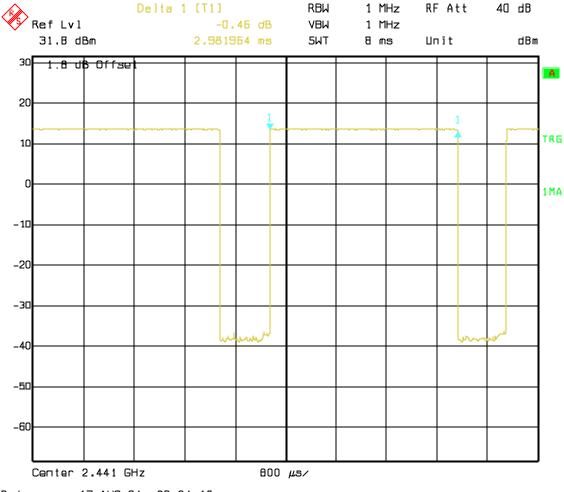
TIME OF OCCUPANCY (DWELL TIME) FOR DH5

§15.247(a)

At DH5 Packets you need 5 time slots for transmit and 1 for receicing,then the system makes worst case 266,7 hops per second with 79 channels. So you have each channel 3.36 times per second and so for 30 seconds you have 100,8 times of appearence .

Each tx-time per appearence is 2.98 ms.

So we have 100.8 * 2.98ms = 300.38 ms per 30 seconds.







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SPECTRUM BANDWIDTH OF FHSS SYSTEM 20 dB bandwidth

§15.247(a)

| TEST CONDITIONS | | 20 dB BANDWIDTH (kHz) | | | |
|-------------------------|--------------------------|-------------------------|--------|--------|--|
| Frequency (MHz) | | 2402 | 2441 | 2480 | |
| T _{nom} (23)°C | V _{nom} (3.85)V | 925.85 | 925.85 | 941.88 | |
| Measurement uncertainty | | | ±3dB | L | |

RBW / VBW as provided in the "Measurement Guidelines" (DA 00-705, March 30, 2000)

LIMIT

SUBCLAUSE §15.247(a) (1)

The maximum 20dB bandwith shall be at maximum 1000 KHz



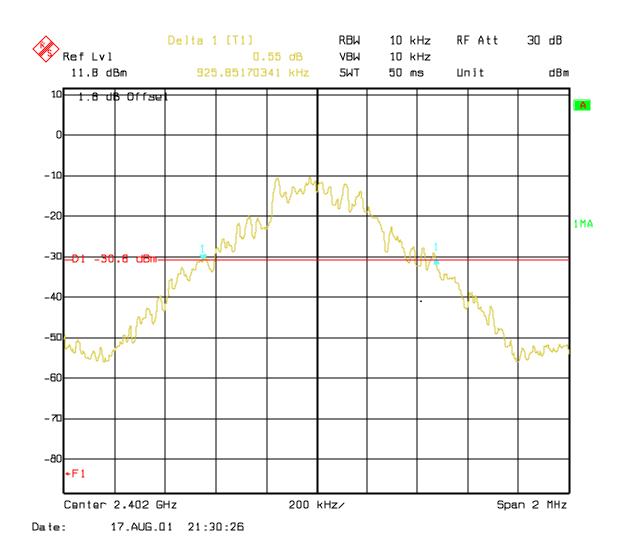
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SPECTRUM BANDWIDTH OF FHSS SYSTEM 20 dB bandwidth

§15.247(a)

Lowest Channel: 2402MHz



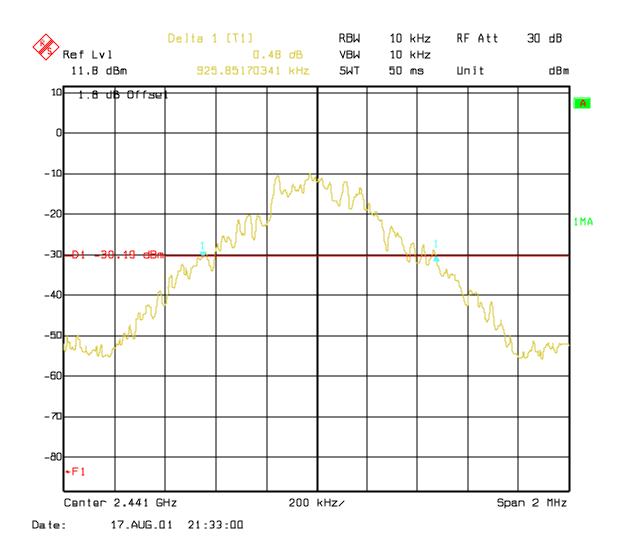


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SPECTRUM BANDWIDTH OF FHSS SYSTEM 20 dB bandwidth

§15.247(a)

Mid Channel: 2441MHz





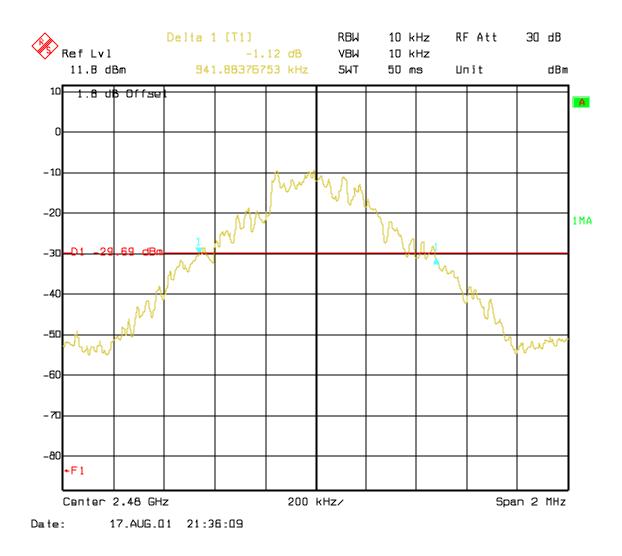
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SPECTRUM BANDWIDTH OF FHSS SYSTEM 20 dB bandwidth

§15.247(a)

Highest Channel: 2480MHz





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MAXIMUM PEAK OUTPUT POWER (conducted)

SUBCLAUSE § 15.247 (b) (1)

| TEST CONDITIONS | | M | MAXIMUM PEAK OUTPUT POWER (dBm) | | | |
|-------------------------|--------------------------|----|---------------------------------|-------|-------|--|
| Frequency (MHz) | | | 2402 | 2441 | 2480 | |
| T _{nom} (23)°C | V _{nom} (3.85)V | РК | -1.59 | -0.97 | -3.01 | |
| Measurement uncertainty | | | | ±3dB | | |

RBW / VBW : 3 MHz

LIMIT

SUBCLAUSE § 15.247 (b) (1)

| Frequency range | RF power output |
|-----------------|-----------------|
| 2400-2483.5 MHz | 1.0 Watt |

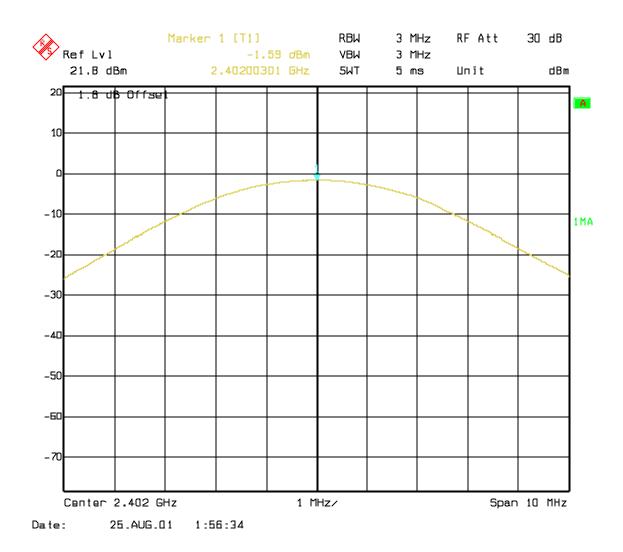


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PEAK OUTPUT POWER (CONDUCTED)

§15.247 (b)

Lowest Channel: 2402MHz



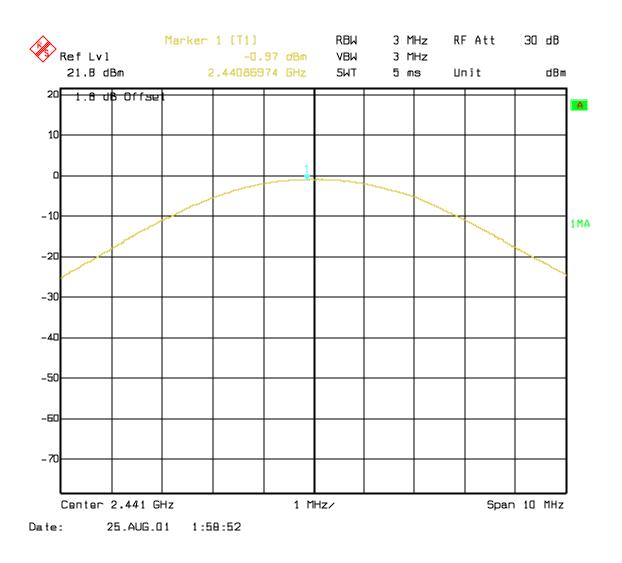


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PEAK OUTPUT POWER (CONDUCTED)

§15.247 (b)

Mid Channel: 2441MHz



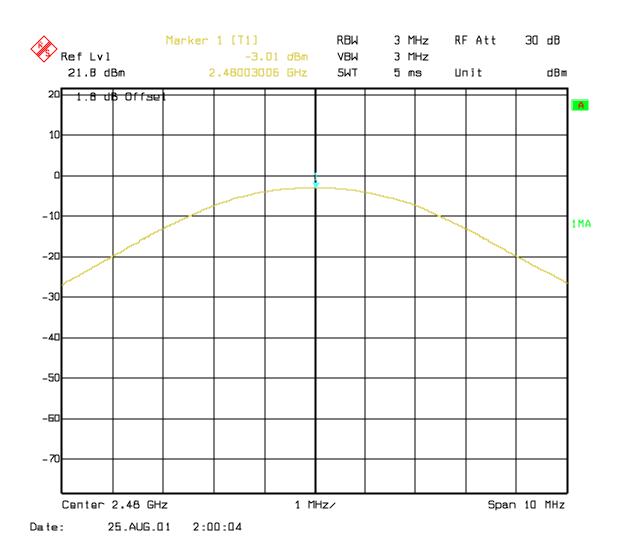


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PEAK OUTPUT POWER (CONDUCTED)

§15.247 (b)

Highest Channel: 2480MHz





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MAXIMUM PEAK OUTPUT POWER (RADIATED)

SUBCLAUSE § 15.247 (b) (1)

EIRP:

| TEST CON | NDITIONS | MAXIMUM PEAK OUTPUT POWER (dBm) | | | |
|---------------------------|--------------------------|---------------------------------|-------|-------|--|
| Frequency (MHz) | | 2402 | 2441 | 2480 | |
| T _{nom} (23)°C | V _{nom} (3.85)V | -1.27 | -0.55 | +1.43 | |
| Measurement uncertainty | | | ±3dB | | |

RBW/VBW : 3 MHz

LIMIT

SUBCLAUSE § 15.247 (b) (1)

| Frequency range | RF power output |
|-----------------|-----------------|
| 2400-2483.5 MHz | 1.0 Watt |

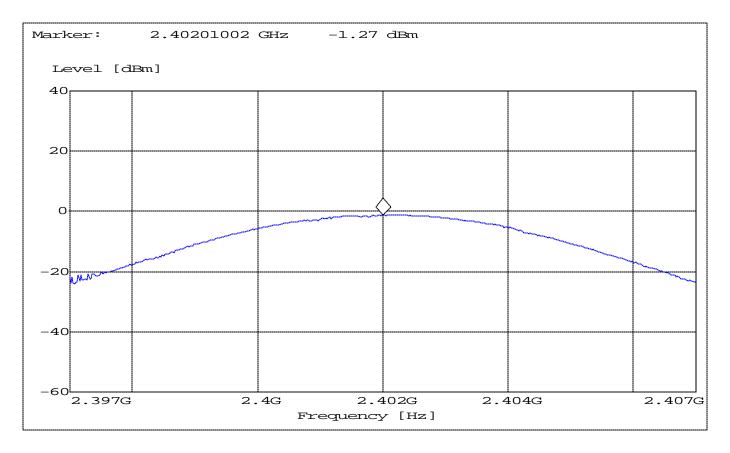


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PEAK OUTPUT POWER (RADIATED)

§15.247 (b) (1)

Lowest Channel: 2402MHz



ANALYZER SETTINGS: RBW = 3MHz VBW = 3MHz

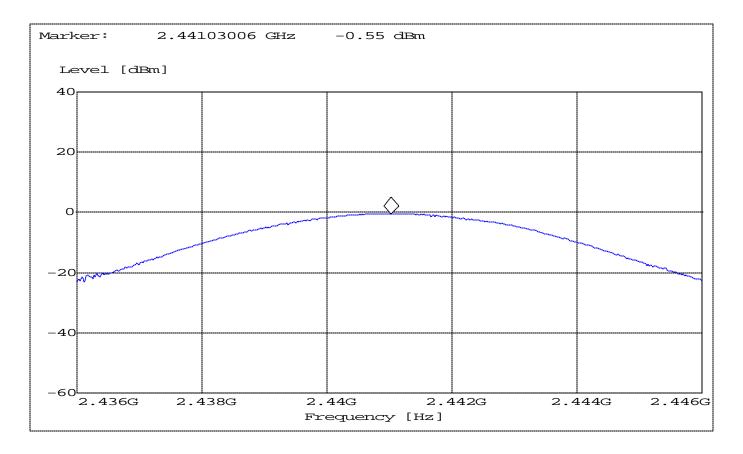


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PEAK OUTPUT POWER (RADIATED)

§15.247 (b) (1)

Mid Channel: 2441MHz



ANALYZER SETTINGS: RBW = 3MHz VBW = 3MHz

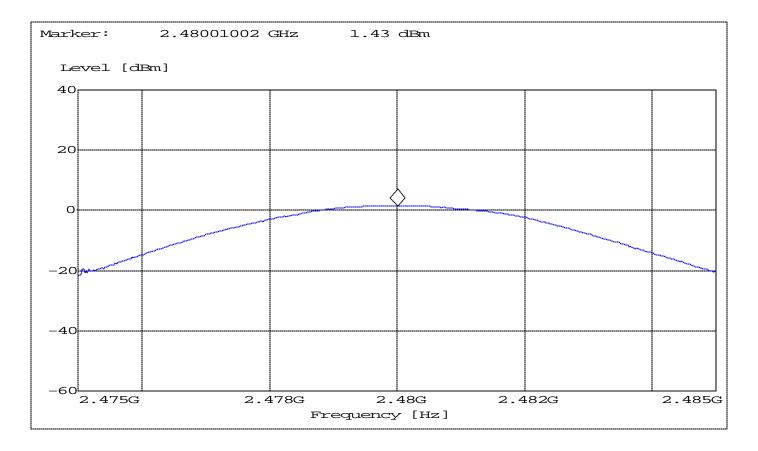


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PEAK OUTPUT POWER (RADIATED)

§15.247 (b) (1)

Highest Channel: 2480MHz



ANALYZER SETTINGS: RBW = 3MHz VBW = 3MHz



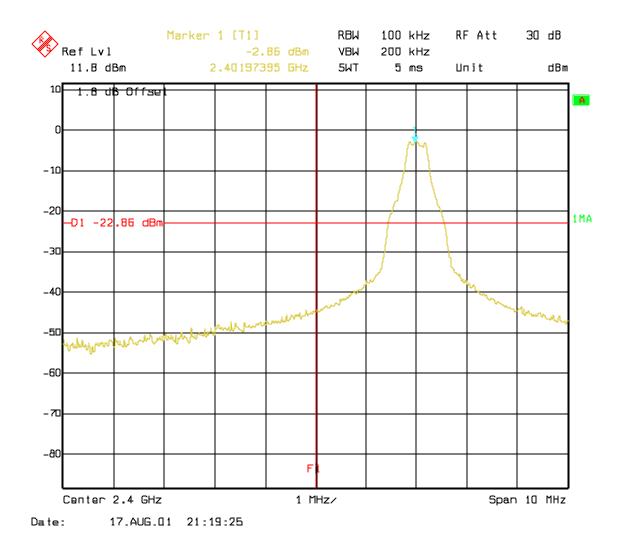
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BAND EDGE COMPLIANCE OF CONDUCTED EMISSIONS

§15.247 (c)

Low frequency section (hopping off)



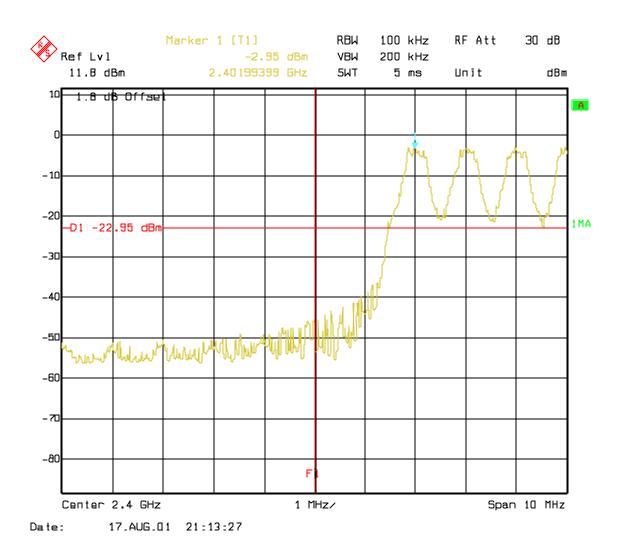


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BAND EDGE COMPLIANCE OF CONDUCTED EMISSIONS §15.247 (c)

Low frequency section (hopping on)





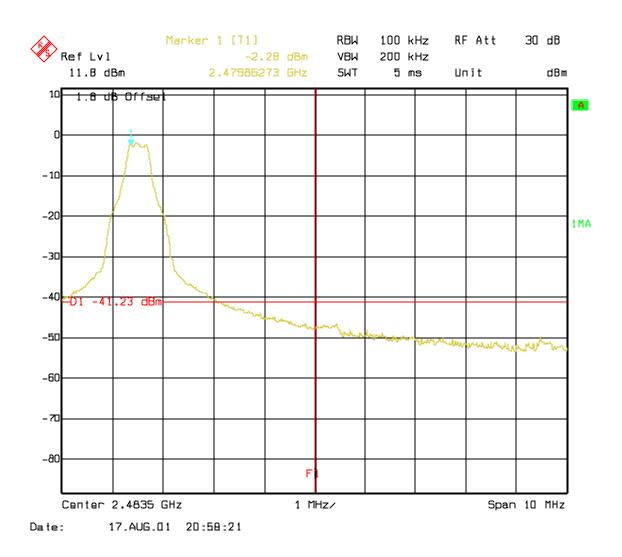
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BAND EDGE COMPLIANCE OF CONDUCTED EMISSIONS

§15.247 (c)

high frequency section (hopping off)





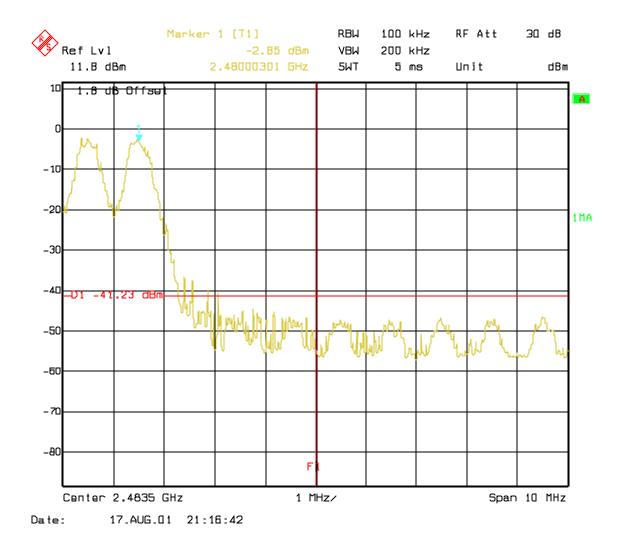
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BAND EDGE COMPLIANCE OF CONDUCTED EMISSIONS

§15.247 (c)

high frequency section (hopping on)





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EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

LIMITS

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

<u>NOTE</u>: Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.



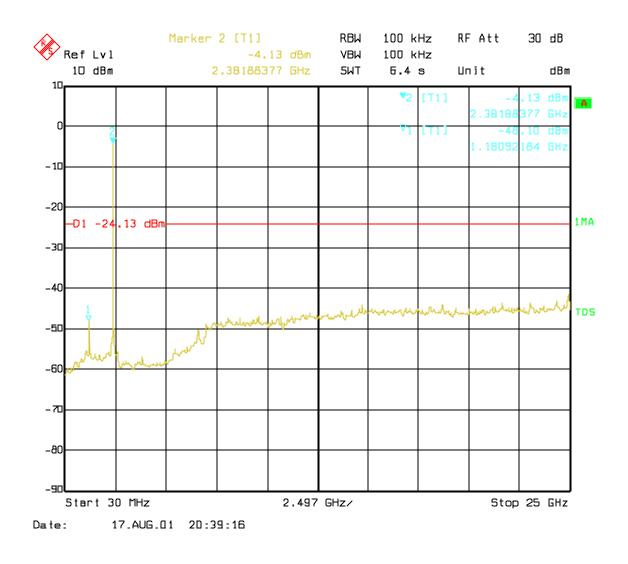
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EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Lowest Channel(2402MHz): 30MHz - 25 GHz



NOTE: The peak above the limit is the carrier frequency.



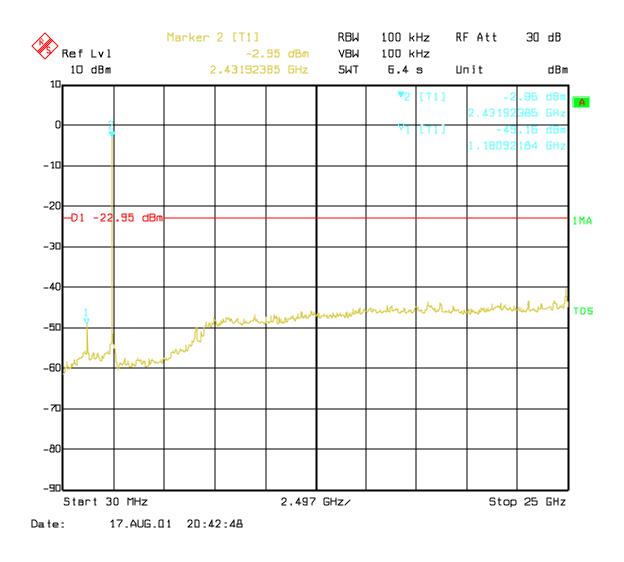
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EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Mid Channel(2441MHz): 30MHz - 25GHz



NOTE: The peak above the limit is the carrier frequency.



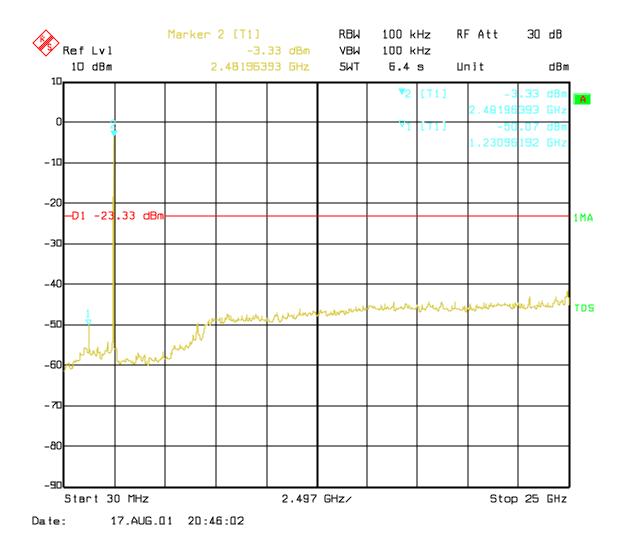
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EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Highest Channel(2480MHz): 30MHz - 25GHz



NOTE: The peak above the limit is the carrier frequency.





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EMISSION LIMITATIONS - Radiated (Transmitter)

SUBCLAUSE § 15.247 (c) (1)

LIMITS

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

NOTE:

1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 18 and 26 GHz very short cable connections to the antenna was used to minimize the noise level.

2. Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.



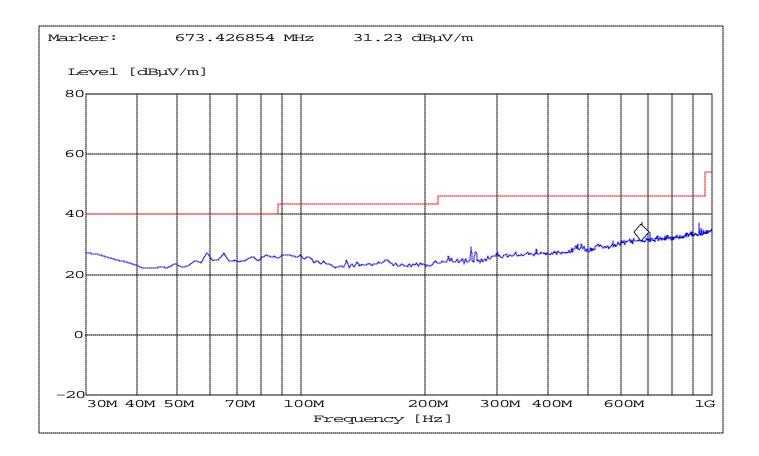
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EMISSION LIMITATIONS - Radiated (Transmitter)

SUBCLAUSE § 15.247 (c) (1)

Lowest Channel(2402MHz): 30MHz - 1GHz



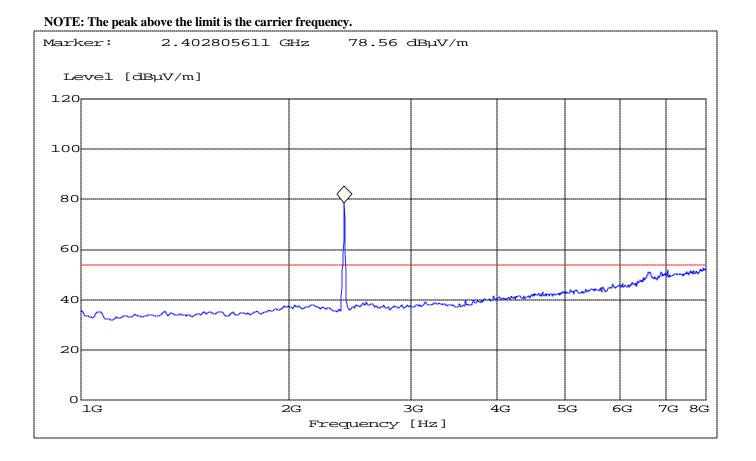


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EMISSION LIMITATIONS - Radiated (Transmitter) SUBCLAUSE § 15.247 (c) (1)

Lowest Channel(2402MHz): 1GHz - 8GHz



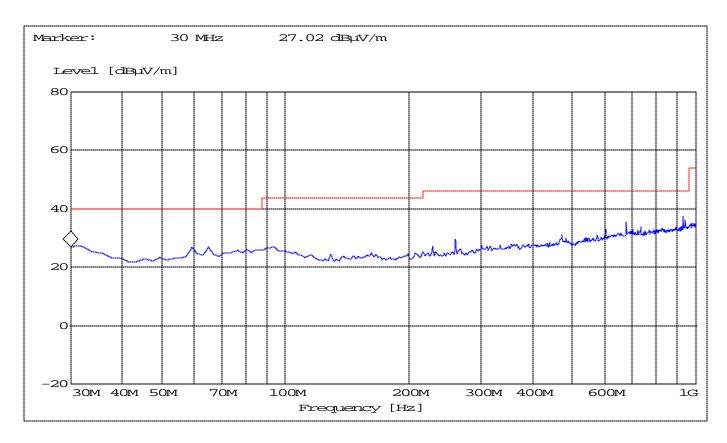


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EMISSION LIMITATIONS - Radiated (Transmitter) SUBCLAUSE § 15.247 (c) (1)

Mid Channel(2441MHz): 30MHz – 1GHz





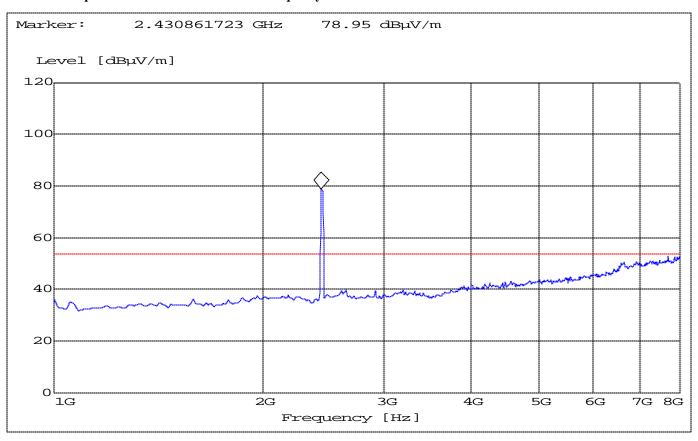
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EMISSION LIMITATIONS - Radiated (Transmitter)

SUBCLAUSE § 15.247 (c) (1)

Mid Channel(2441MHz): 1GHz – 8GHz



NOTE: The peak above the limit is the carrier frequency.

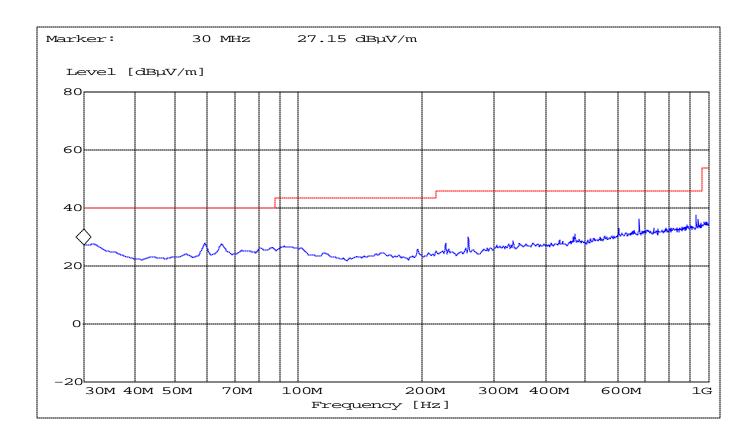


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EMISSION LIMITATIONS - Radiated (Transmitter) SUBCLAUSE § 15.247 (c) (1)

Highest Channel(2480MHz): 30MHz – 1GHz



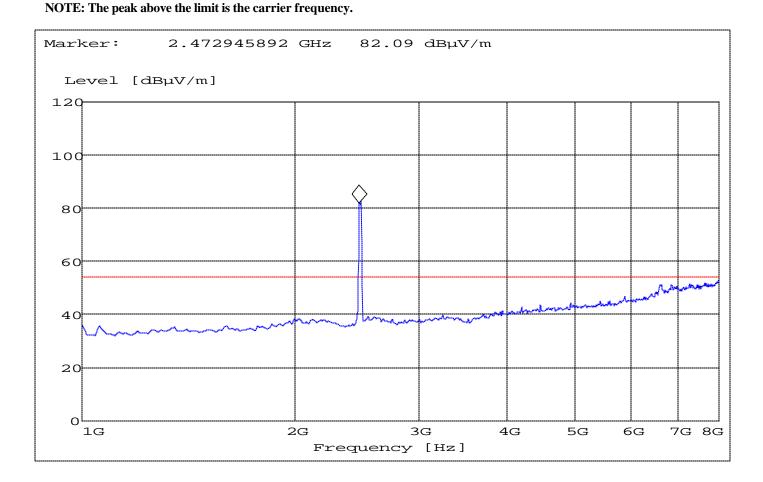


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EMISSION LIMITATIONS - Radiated (Transmitter) SUBCLAUSE § 15.247 (c) (1)

Highest Channel: 1GHz – 8GHz





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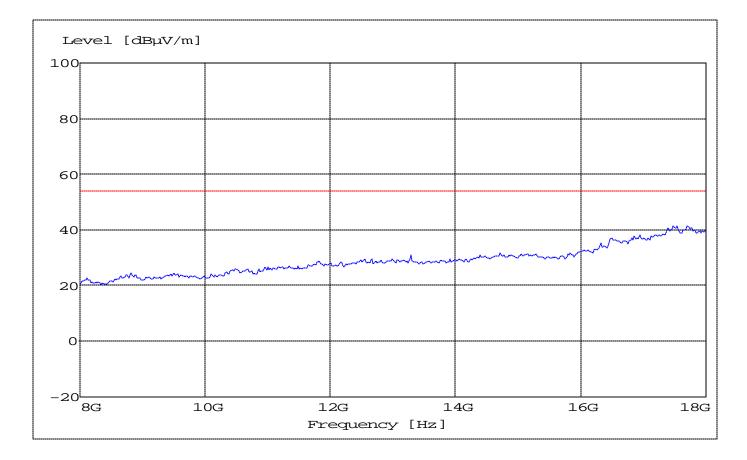
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EMISSION LIMITATIONS - Radiated (Transmitter)

SUBCLAUSE § 15.247 (c) (1)

8GHz – 18GHz

(This plot is valid for all three channels)





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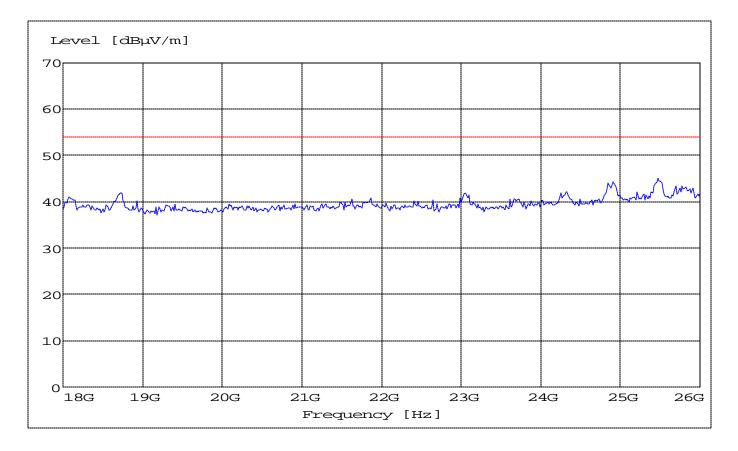
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EMISSION LIMITATIONS - Radiated (Transmitter)

SUBCLAUSE § 15.247 (c) (1)

18 GHz - 26 GHz

(This plot is valid for all three channels)



CONDUCTED EMISSIONS

Mfg.: **PHIHONG** Model: PSC 10A-050 100-240V, 0.3A



§ 15.107/207

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Measured with AC/DC power adapter

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Phase: Line RBW RF Att 30 dB 10 kHz Ref Lvl VBM 10 kHz 97 dB_MV 5WT Unit dBµ₄V 10 s 10 MHz ΜHz Α 90 80 70 1 A V 60 50 40 30 20 10 Start 450 kHz Stop 30 MHz Date: 18.AUG.01 1:54:04

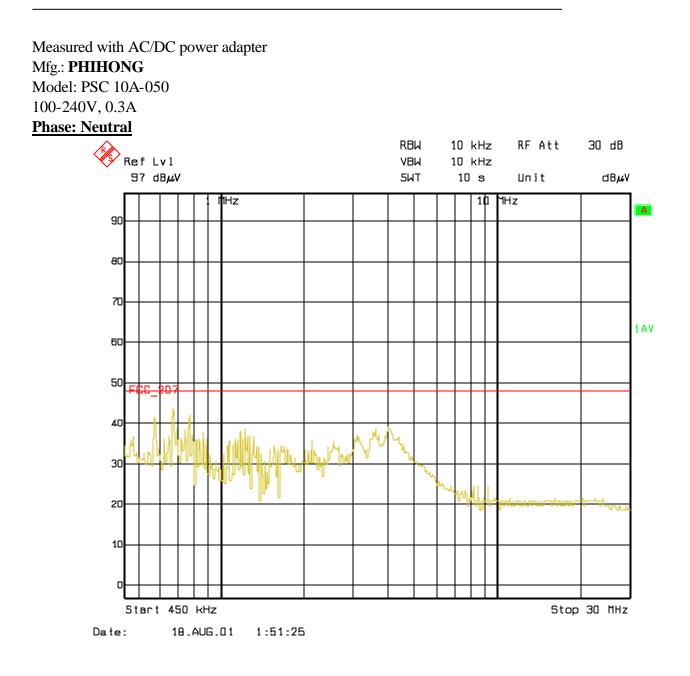
Technical specification: 15.107 / 15.207 (Revised as of October 1, 1991) Limit

| 0.45 to 30 MHz | | 250 µV / 47.96dBµV |
|--------------------------------|-------------|--------------------|
| ANALYZER SETTINGS: RBW = 10KHz | VBW = 10KHz | |



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Technical specification: 15.107 / 15.207 (Revised as of October 1, 1991) Limit

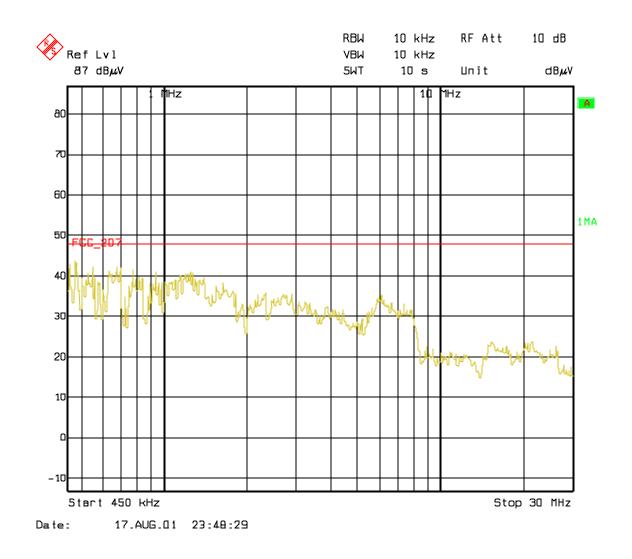
| 0.45 to 30 MHz | | 250 µV / 47.96dBµV |
|--------------------------------|------------|--------------------|
| ANALYZER SETTINGS: RBW = 10KHz | VBW = 10KH | L |



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Measured with AC/DC power adapter Mfg.: **DELTA** Model: ADP-10SB REV.BH 100-240V, 0.4A **Phase: Line**



Technical specification: 15.107 / 15.207 (Revised as of October 1, 1991) Limit

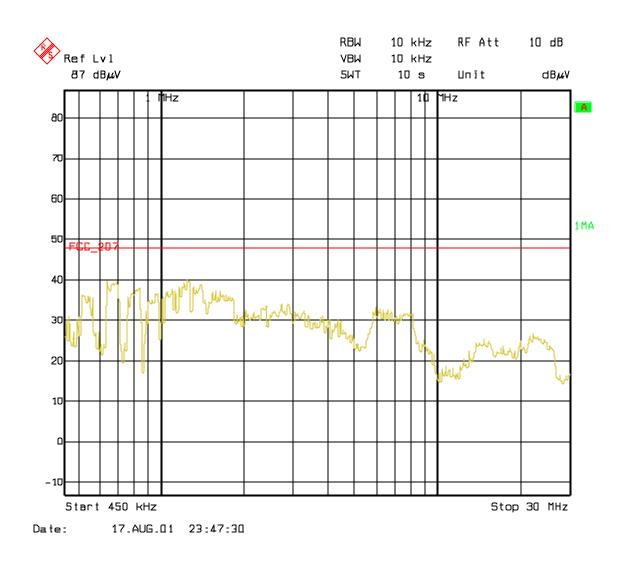
| 0.45 to 30 MHz | 250 µV / 47.96dBµV |
|----------------|--------------------|
| | |



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Measured with AC/DC power adapter Mfg.: **DELTA** Model: ADP-10SB REV.BH 100-240V, 0.4A **Phase: Neutral**



Technical specification: 15.107 / 15.207 (Revised as of October 1, 1991) Limit

| 0.45 to 30 MHz | | 250 μV / 47.96dBμV | |
|--------------------------------|------------|--------------------|--|
| ANALYZER SETTINGS: RBW = 10KHz | VBW = 10KH | | |



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RECEIVER SPURIOUS RADIATION

§ 15.209

Limits

| Frequency (MHz) | Field strength (µV/m) | Measurement distance (m) |
|-----------------|-----------------------|--------------------------|
| 0.009 - 0.490 | 2400/F(kHz) | 300 |
| 0.490 - 1.705 | 24000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| above 960 | 500 | 3 |

NOTE:

1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 18 and 26 GHz very short cable connections to the antenna was used to minimize the noise level.

2. Measurements were done on low, mid & high channels, but plots depicting the worst case are submitted in the test report.



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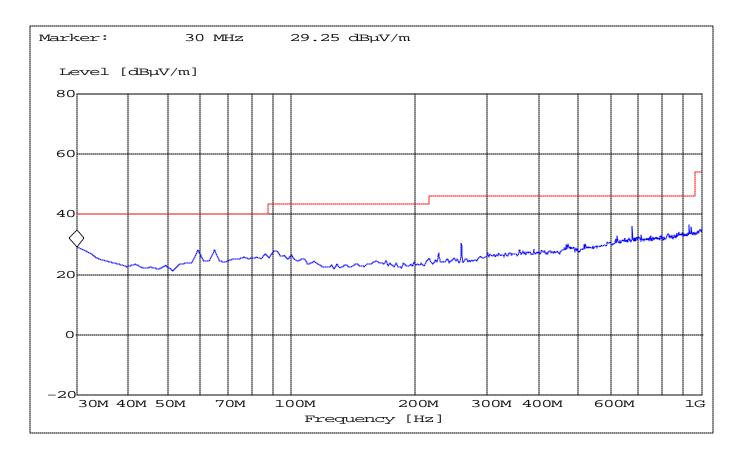
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RECEIVER SPURIOUS RADIATION

§ 15.209

30MHz - 1GHz

(This plot is valid for all three channels)





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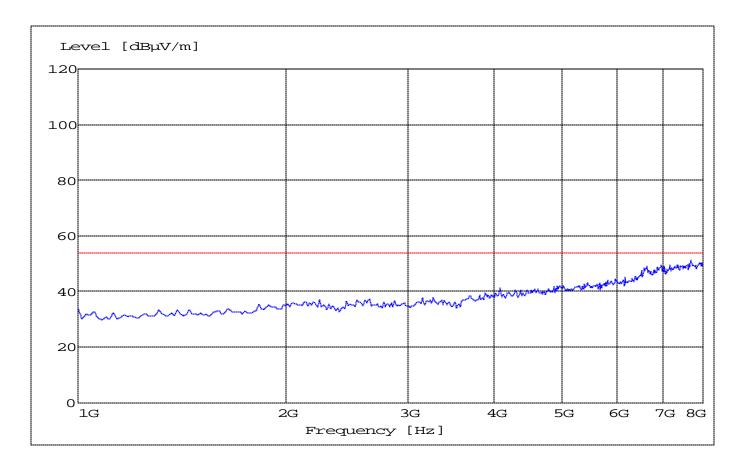
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RECEIVER SPURIOUS RADIATION

§ 15.209

1 GHz - 8 GHz

(This plot is valid for all three channels)





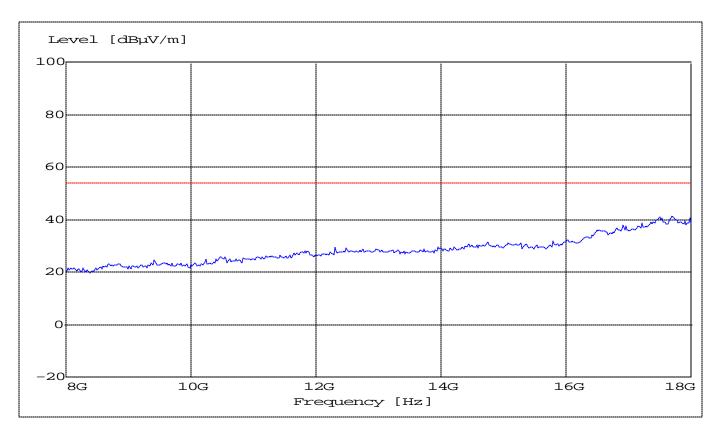
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RECEIVER SPURIOUS RADIATION

§ 15.209

8GHz – 18GHz (This plot is valid for all three channels)





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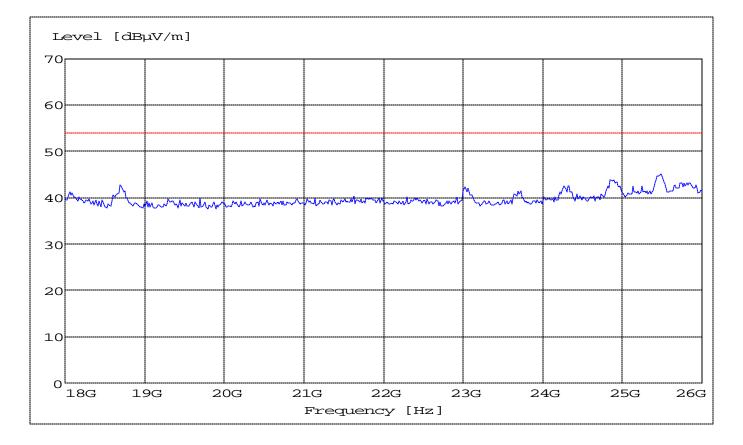
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RECEIVER SPURIOUS RADIATION

§ 15.209

18GHz – 26GHz

(This plot is valid for all three channels)





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TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

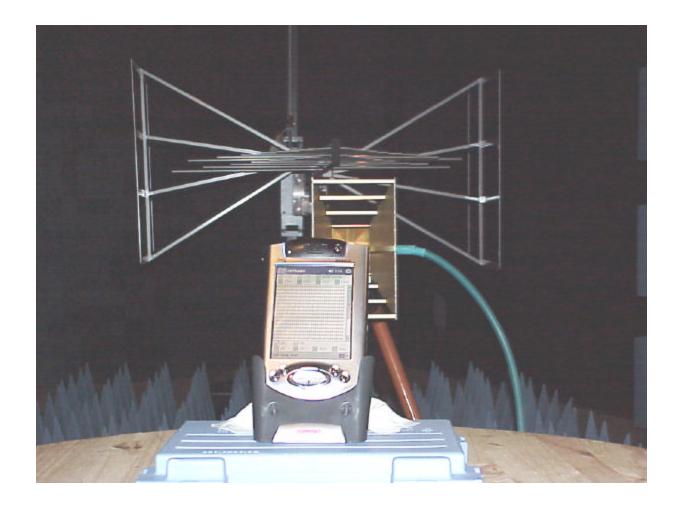
| No | Instrument/Ancillary | Туре | Manufacturer | Serial No. |
|----|--------------------------|--------------|--------------------|--------------|
| 01 | Spectrum Analyzer | FSEM 30 | Rohde & Schwarz | 826880/010 |
| 02 | Signal Generator | SMY0 | Rohde & Schwarz | 836878/011 |
| 03 | Power-Meter | NRVD | Rohde & Schwarz | 0857.8008.02 |
| 04 | Power Amlifier | 250W1000 | Amplifier Research | 300031 |
| 05 | Biconilog Antenna | 3141 | EMCO | 0005-1186 |
| 06 | Horn Antenna | SAS-200/571 | AH Systems | 325 |
| 07 | Power Splitter | 11667B | Hewlett Packard | 645348 |
| 08 | Climatic Chamber | VT4004 | Votch | G1115 |
| 09 | Pre-Amplifier | JS4-00102600 | Miteq | 00616 |
| 10 | Power Sensor | URV5-Z2 | Rohde & Schwarz | DE30807 |
| 11 | Power Sensor | URV5-Z2 | Rohde & Schwarz | DE30808 |
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<u>Test site</u> RADIATED EMISSIONS

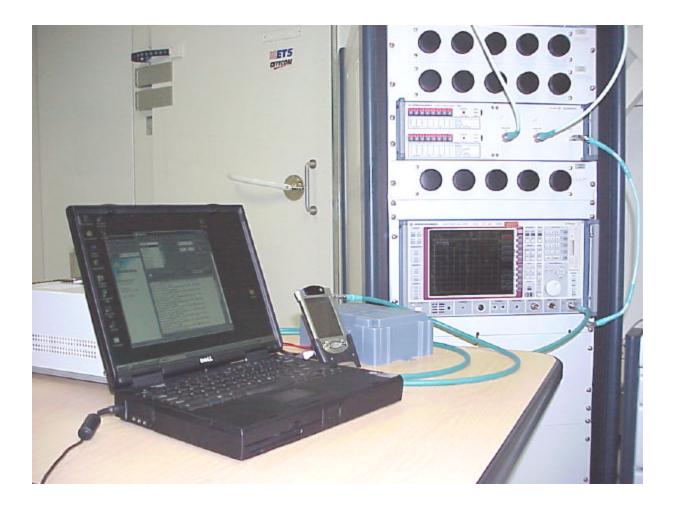




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Test site CONDUCTED EMISSIONS





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Photographs of the equipment

Photograph no.: 1 (EUT WITH ANTENNA & RF CONNECTOR) NOTE: RF CONNECTOR is used only for testing purpose





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Photographs of the equipment

Photograph no.: 2 (EUT with PCMCIA Jacket)





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Photographs of the equipment

Photograph no.: 3 (PCMCIA Jacket)



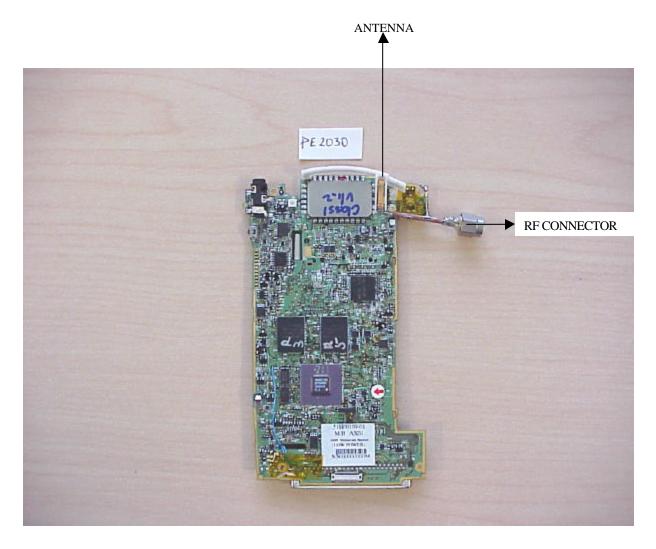


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Photographs of the equipment

Photograph no.: 4 (PCB layout – Top View) NOTE: RF CONNECTOR is used only for testing purpose





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Photographs of the equipment

Photograph no.: 5 (PCB layout – Bottom View)

