

1067 **25.2 Regulatory Statement for FCC (Federal Communications**
1068 **Commission) - FCC ID: YDVINTELLICAPCFR**

1069

1070 ***FCC Information to User***

1071 This product does not contain any user serviceable components and is
1072 to be used with approved antennas only. Any product changes or
1073 modifications will invalidate all applicable regulatory certifications and
1074 approvals.

1075

1076 ***FCC Guidelines for Human Exposure***

1077 Pursuant to Part 2 of the FCC Rules, section 2.1093, this device is
1078 categorically excluded from routine environmental evaluation for RF
1079 exposure.

1080

1081 ***FCC Electronic Emission Notices***

1082 This device complies with part 15 of the FCC
1083 Rules. Operation is subject to the following two
1084 conditions: (1) This device may not cause harmful
1085 interference, and (2) this device must accept any
1086 interference received, including interference that
1087 may cause undesired operation.

1088

1089 ***FCC Radio Frequency Interference statement***

1090 This equipment has been tested and found to comply with the limits for
1091 a class B device (all other receivers subject to Part 15), pursuant to Part
1092 15 of the FCC Rules. These limits are designed to provide reasonable
1093 protection against harmful interference when the equipment is operated
1094 in a commercial environment.

1095

1096 This equipment generates, uses and can radiate radio frequency energy
1097 and, if not installed and used in accordance with the instructions, may
1098 cause harmful interference to radio communications.

1099 Operation of this equipment in a residential area may cause harmful
1100 interference, in which case the user will be required to correct the
1101 interference at own expense.

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- 1102 If this equipment does cause harmful interference to radio or television
1103 reception, which can be determined by turning the equipment off and on,
1104 the user is encouraged to try to correct the interference by one or more of
1105 the following measures:
- 1106 . Reorient or relocate the receiving antenna
 - 1107 . Increase the separation between the equipment and receiver
 - 1108 . Connect the equipment into an outlet on a circuit different from that
1109 to which the receiver is connected
 - 1110 . Consult the dealer or an experienced radio/TV technician for help

MEDIMETRICS DOCUMENT

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1111 ***Declaration of Conformity Annex II, Class IIa product***

1112

1113 The distributed CE marked product is covered by the "CE Marking of
1114 Conformity Certificate", reference number: xxx issued on dd-mmm-yyyy
1115 and delivered by DEKRA Quality B.V., Arnhem, The Netherlands, Notified
1116 Body Identification Number 0344, and conform to the required technical
1117 documentation, in accordance with Annex II of the "EC-Directive", the
1118 Council Directive 93/42/EEC of 14 June 1993, concerning medical devices.

1119

1120 The distributed CE marked products, as mentioned and falling within
1121 Class IIa, meet the provisions of the EC-Directive which apply to them.

1122

1123 This declaration is based on the application of the Quality System
1124 approved for the design, manufacture and final inspection of the products
1125 concerned, in accordance with Annex II of the EC-Directive. The
1126 conformity of the full quality assurance system set out in Annex II, is
1127 described in the said CE Marking of Conformity Certificate, issued and
1128 delivered by DEKRA Certification B.V..

1129

1130 This declaration is supported by the Quality System certification based
1131 on the harmonized standards ISO 13485:2003, Quality System Certificate
1132 with reference number: 2144517, issued on 30 January 2012 and
1133 delivered by DEKRA Certification B.V..

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CE 0344

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1139 **26. References**

Ref. #	Document title	Document ID
1	IntelliCap® Burst V System GUI manual	iPS-130243

1140

1141 **27. Document history**

Version	Date	Author	Description of changes	CR
1.0	15-Jan-2014	Ventzeslav Iordanov	Approved (major) version	N/A

1142

1143 **END OF DOCUMENT**

MEDIMETRICS DOCUMENT

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Radio test report 20103164304 - Rev. 1.0

based on:

- FCC Part 15 subpart B, sections 15.107, 15.109
- FCC part 15, subpart C, section 15.249,
spurious emissions only
- (all sections 10-1-09 Edition)

Short Range Device
PU
8iD175



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USED TEST EQUIPMENT MODULE.....25

This report comprises of three modules. The total number of pages is: 26

Main module

1 Introduction

This report contains the result of tests performed by:

Telefication B.V.
Edisonstraat 12a
6902 PK Zevenaar
The Netherlands

Telefication complies with the accreditation criteria for test laboratories as laid down in ISO/IEC 17025:2005. The accreditation covers the quality system of the laboratory as well as the specific activities as described in the authorized annex bearing the accreditation number L021 and is granted on 30 November 1990 by the Dutch Council For Accreditation (RvA: Raad voor Accreditatie). The contents of this test report, if reproduced, shall be copied in full, unless special consent in writing for reproduction in part is granted by Telefication. Copyright of this test report is reserved to Telefication.

Ordering party:

Company name : Medimetrics
Address : High Tech Campus 34 (WB2 053)
Zipcode : 5656 AE
City/town : Eindhoven
Country : The Netherlands
Date of order : 9 February 2010



2 Product

A sample of the following product was submitted for testing:

Product description	:	Short Range Device
Manufacturer	:	Medimetrics
Trade mark	:	PU
Type designation	:	8iD175
FCC ID	:	YDVINTELLICAP-PU1
Hardware version	:	2.0.2
Serial number	:	--
Software release	:	2.0.2.2308

3 Test schedule

Tests were carried out in accordance with the specification detailed in chapter 7 "Summary" of this report.

Tests were carried out at the following location:

- Telefication, Zevenaar

The samples of the product were received on:

- 10 February 2010

Tests were carried out between:

- 10 February and 16 April 2010

4 Product documentation

For production of this report the following product documentation was used:

Description:	Date:	Identification:
Documentation	2010-04-14	iPS-090032 Communication Protocols.pdf
Documentation	2010-04-14	iPS-100094 Annex I to iPS-090039.pdf
Documentation	2010-04-14	iPS-100095 Amendment I to iPS-090039.pdf
Documentation	2010-04-14	iPS-100095 Amendment II to iPS-090039.pdf
Documentation	2010-04-14	The PU design file.pdf

The above-mentioned documentation will be filed at Telefication for a period of 10 years following the issue of this test report.

5 Observations and comments

The PU 8iD175 consists of a 433 MHz receiver and a 2.4 GHz transceiver. Moreover it has a USB connector and a DC power port.

The 433 MHz receiver has been tested completely.

The 2.4 GHz transceiver is a commercially available module, i.e. an AMBER module.

Only unwanted radiated emissions of the 2.4 GHz transceiver have been measured.

When the USB port is operational, receiver and transceiver are not operational.

6 Modifications to the sample

No modifications were made to the sample.

7 Summary

The product is intended for use in the following application area(s):

UNINTENTIONAL RADIATOR

INTENTIONAL RADIATOR OPERATING IN THE FREQUENCY BAND 2400 - 2483.5 MHz

The sample was tested according to the following specification(s):

FCC Part 15 subpart B, section 15.107, 15.109

FCC part 15 subpart C, section 15.249, spurious emissions only

(all sections 10-1-09 edition)



8 Conclusions

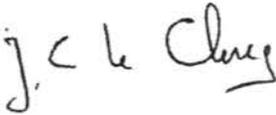
The samples of the product showed **NO NON-COMPLIANCES** to the specification stated in chapter 7 of this report.

The results of the tests as stated in this report, are exclusively applicable to the product item as identified in this report. Telefication accepts no responsibility for any stated properties of product items in this test report, which are not supported by the tests as specified in section 7 "Summary".

All tests are performed by:

name : ing. J.C. le Clercq

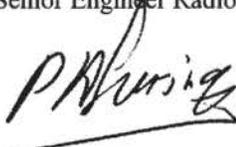
function : Test Engineer

signature : 

Review of test report by:

name : ing. P.A. Suringa

function : Senior Engineer Radio/EMC

signature : 

The above conclusions have been verified by the following signatory:

date : 28 April 2011

name : ing. A. van der Valk

function : Co-ordinator Test Group

signature : 

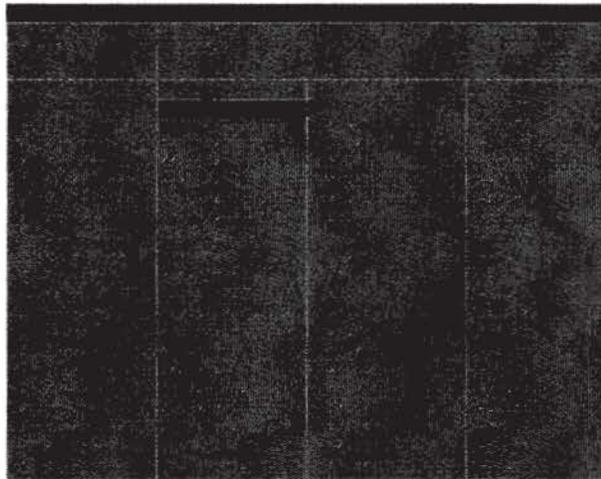
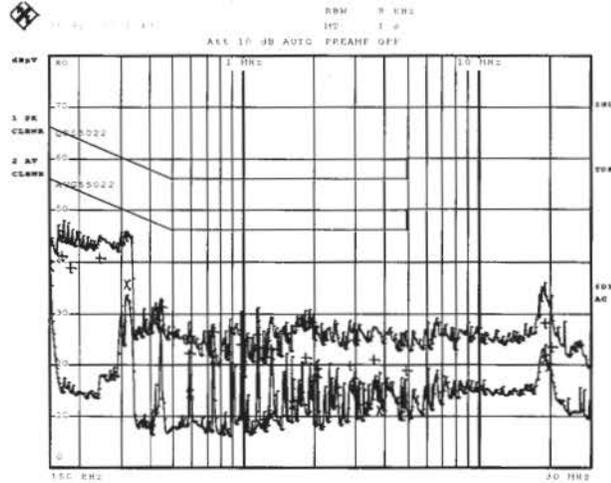
Test results module

1 General information

1.1 Equipment information

Rated RF output power	n.a., integral antenna
Rated radiated RF power	0 dBm
Operating frequency range of receiver	433.2 to 434.6 MHz
Operating frequency range of transceiver	2400.5 to 2482.5 MHz
FCC ID	YDVINTELLICAP-PUI

Measured on AC mains, live line:



Measurement uncertainty	+/-3.1 dB. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approx. 95%, but excluding the effect of measurement repeatability.
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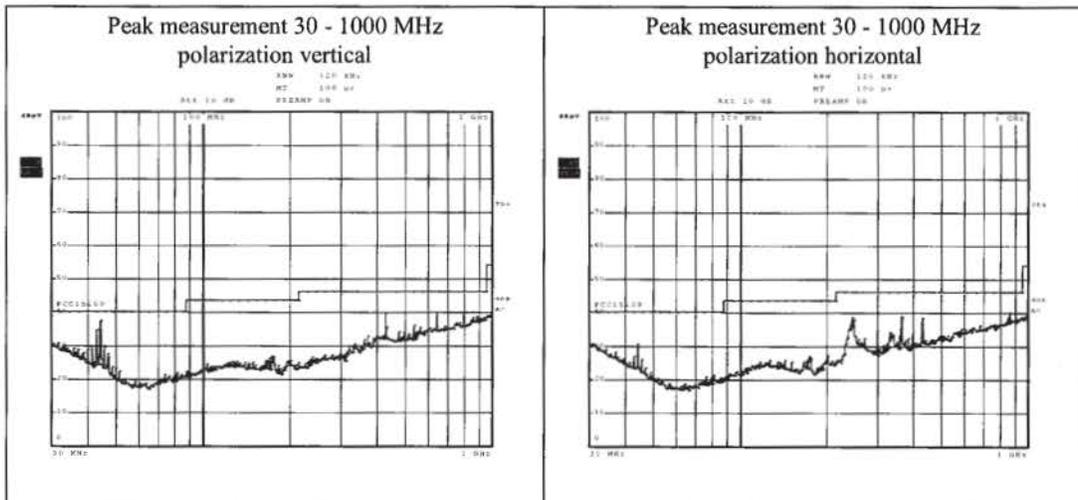
Limit	See plot
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Measurement equipment used (item numbers refer to section "used test equipment")	14, 18, 19, 20.
--	-----------------

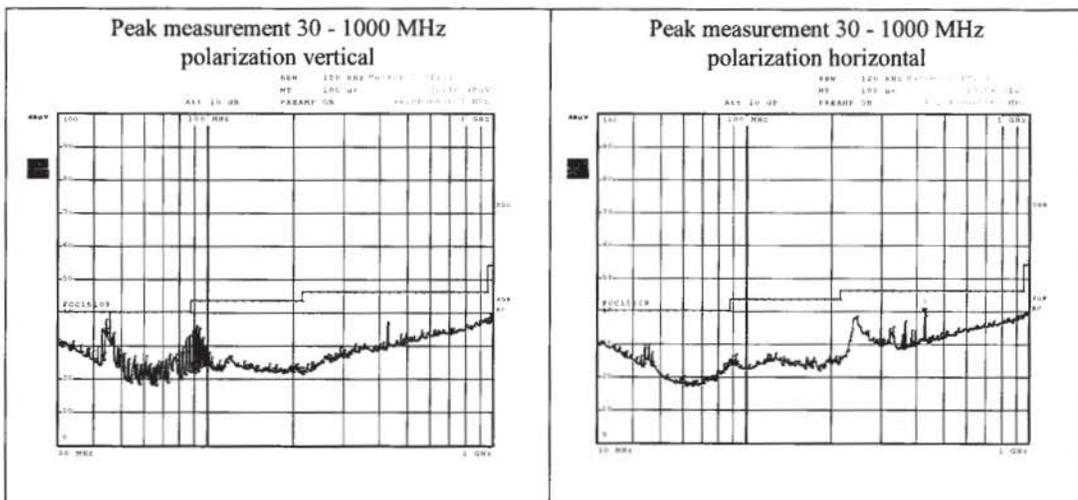
2.2 Field strength of unwanted emissions 30 - 1000 MHz

Compliance standard : FCC part 15, subpart B, section 15.109
 Method of test : ANSI C63.4-2003, sections 5.5, 8.2.3, 8.2.4 & 8.3.1.2;
 FCC part 15, subpart A, section 15.31(m), 15.33, 15.35.
 Test results :

PU connected to USB-cable:



PU connected to AC mains adapter



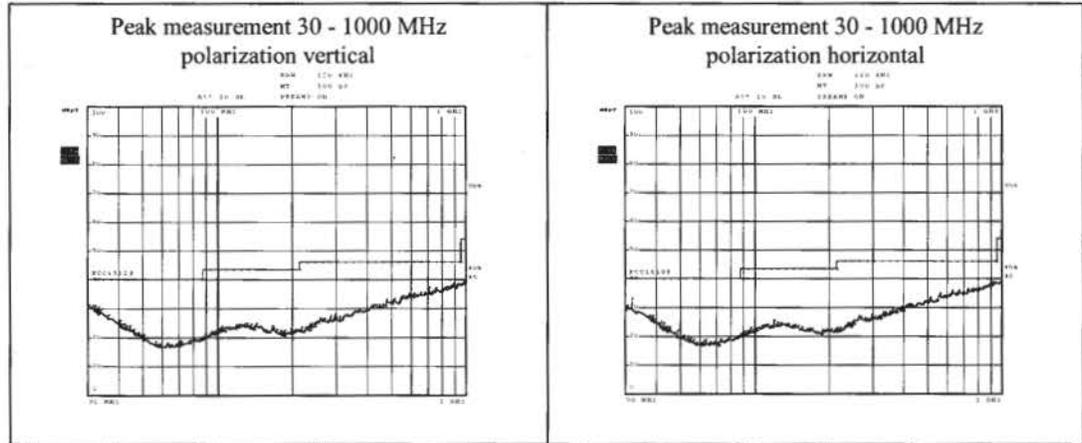
Measurement uncertainty	Horizontal polarization	
	30 – 200 MHz	4.5 dB
	200 – 1000 MHz	3.6 dB
	Vertical polarization	
	30 – 200 MHz	5.4 dB
	200 – 1000 MHz	4.6 dB

Limit	See plot
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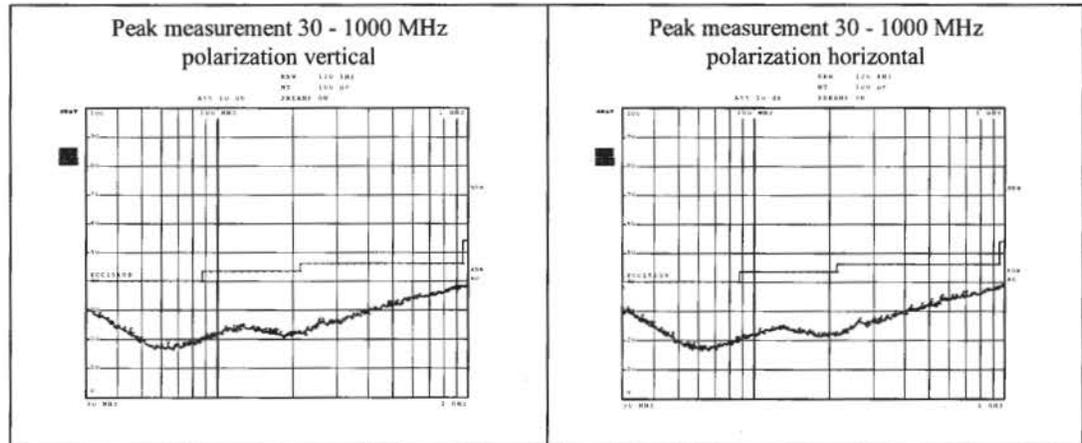
Measurement equipment used (item numbers refer to section “used test equipment”)	14, 15, 16, 17.
--	-----------------

Compliance standard : FCC part 15, subpart B, section 15.109
 Method of test : ANSI C63.4-2003, sections 5.5, 8.2.3, 8.2.4 & 8.3.1.2;
 FCC part 15, subpart A, section 15.31(m), 15.33, 15.35.
 Test results :

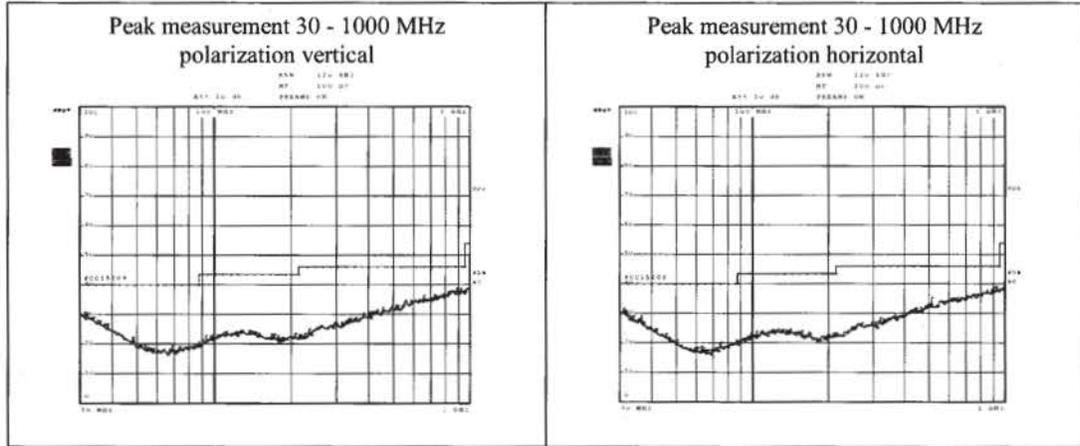
Low channel 433.2 MHz RX, without cables:



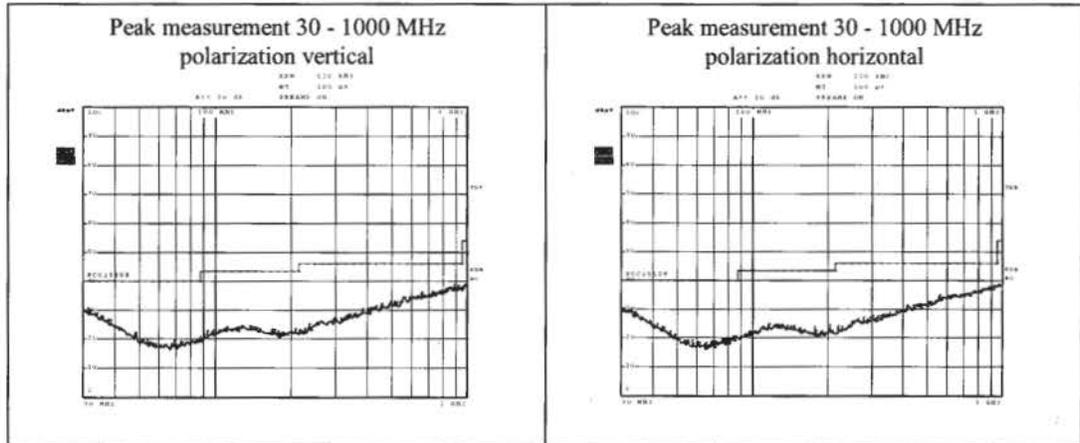
High channel 434.6 MHz RX, without cables:



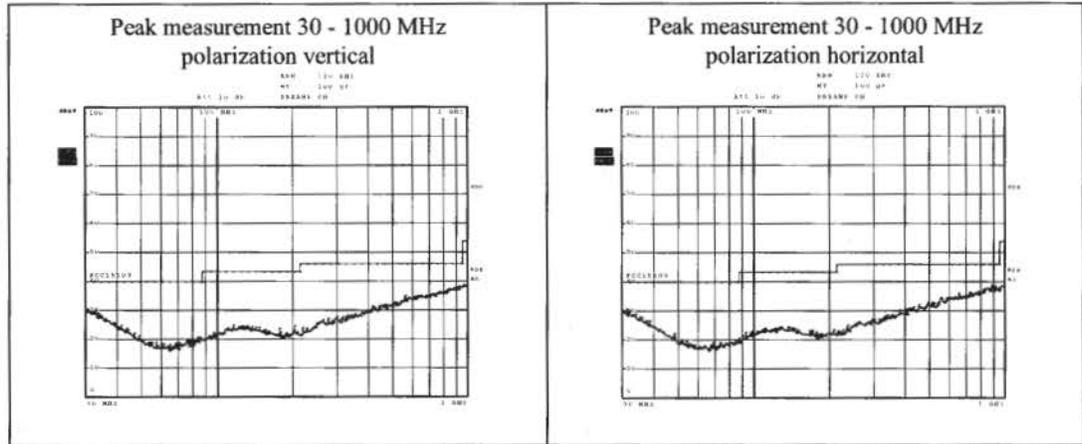
Low channel 2400.5 MHz RX, without cables:



Mid channel 2440.0 MHz RX, without cables:



High channel 2482.5 MHz RX, without cables:



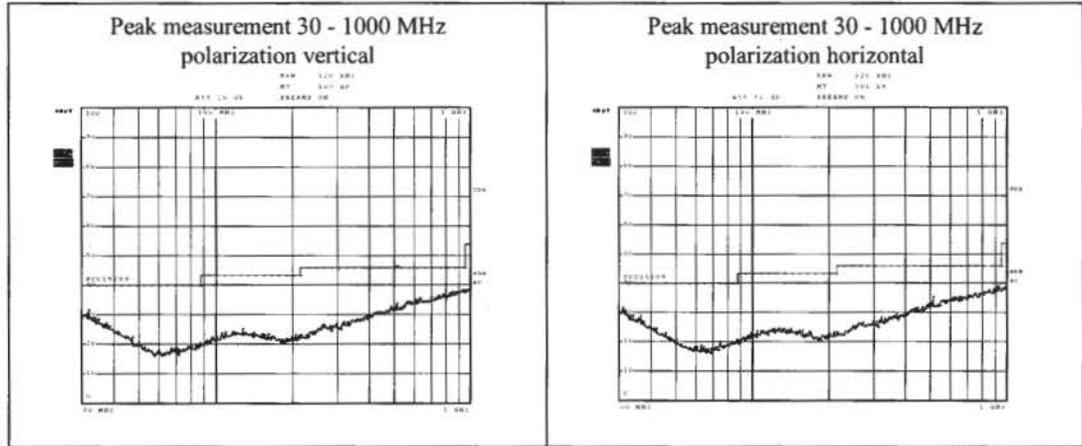
Measurement uncertainty	Horizontal polarization	
	30 – 200 MHz	4.5 dB
	200 – 1000 MHz	3.6 dB
	Vertical polarization	
	30 – 200 MHz	5.4 dB
	200 – 1000 MHz	4.6 dB

Limit	See plot
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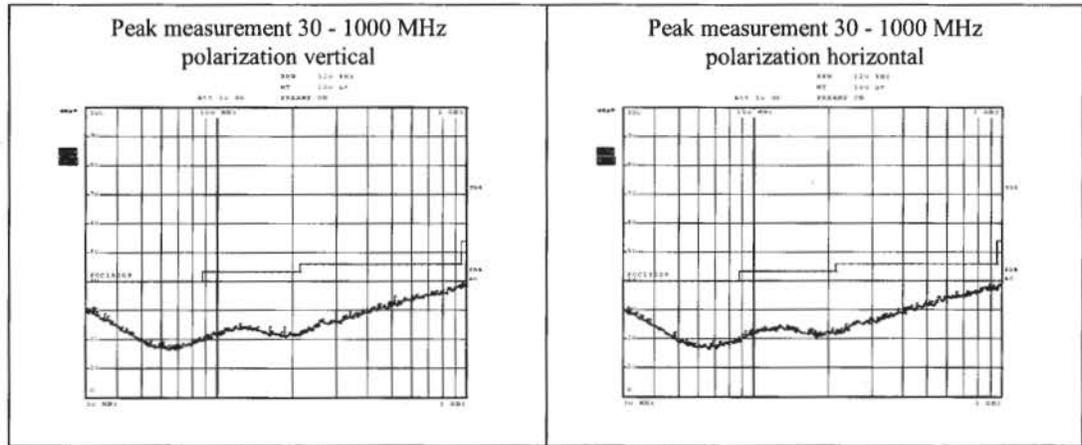
Measurement equipment used (item numbers refer to section “used test equipment”)	14, 15, 16, 17.
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Compliance standard : FCC part 15, subpart C, section 15.209
 Method of test : ANSI C63.4-2003, sections 5.5, 8.2.3, 8.2.4 & 8.3.1.2;
 FCC part 15, subpart A, section 15.31(m), 15.33, 15.35.
 Test results :

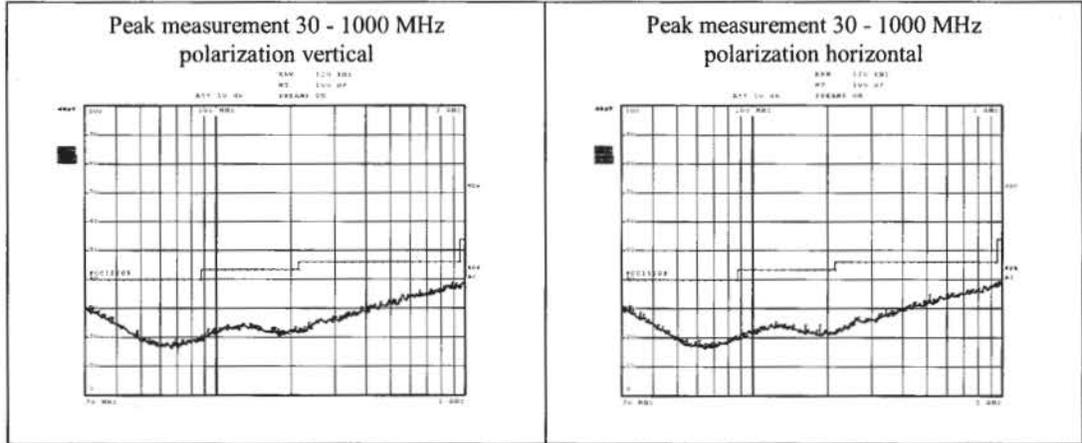
Low channel 2400.5MHz TX, without cables:



Mid channel 2440.0 MHz TX, without cables::



High channel 2482.5 MHz TX, without cables::



Measurement uncertainty	Horizontal polarization	
	30 – 200 MHz	4.5 dB
	200 – 1000 MHz	3.6 dB
	Vertical polarization	
	30 – 200 MHz	5.4 dB
	200 – 1000 MHz	4.6 dB

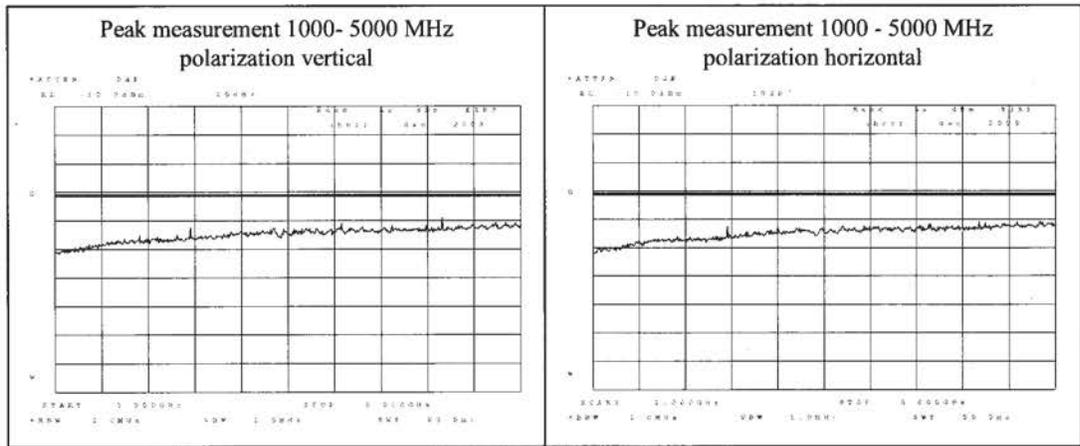
Limit	See plot
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Measurement equipment used (item numbers refer to section “used test equipment”)	14, 15, 16, 17.
--	-----------------

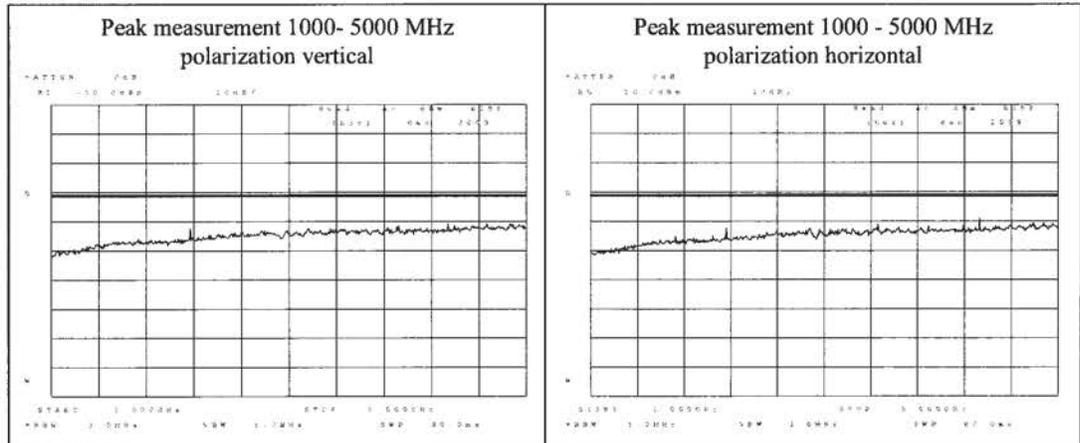
2.3 Field strength of unwanted emissions > 1000 MHz

Compliance standard : FCC part 15, subpart B, section 15.109
 Method of test : ANSI C63.4-2003, sections 5.5, 8.2.3, 8.2.4 & 8.3.1.2;
 FCC part 15, subpart A, section 15.31(m), 15.33, 15.35.
 Test results :

Low channel 433.2 MHz RX:



High channel 434.6 MHz RX:

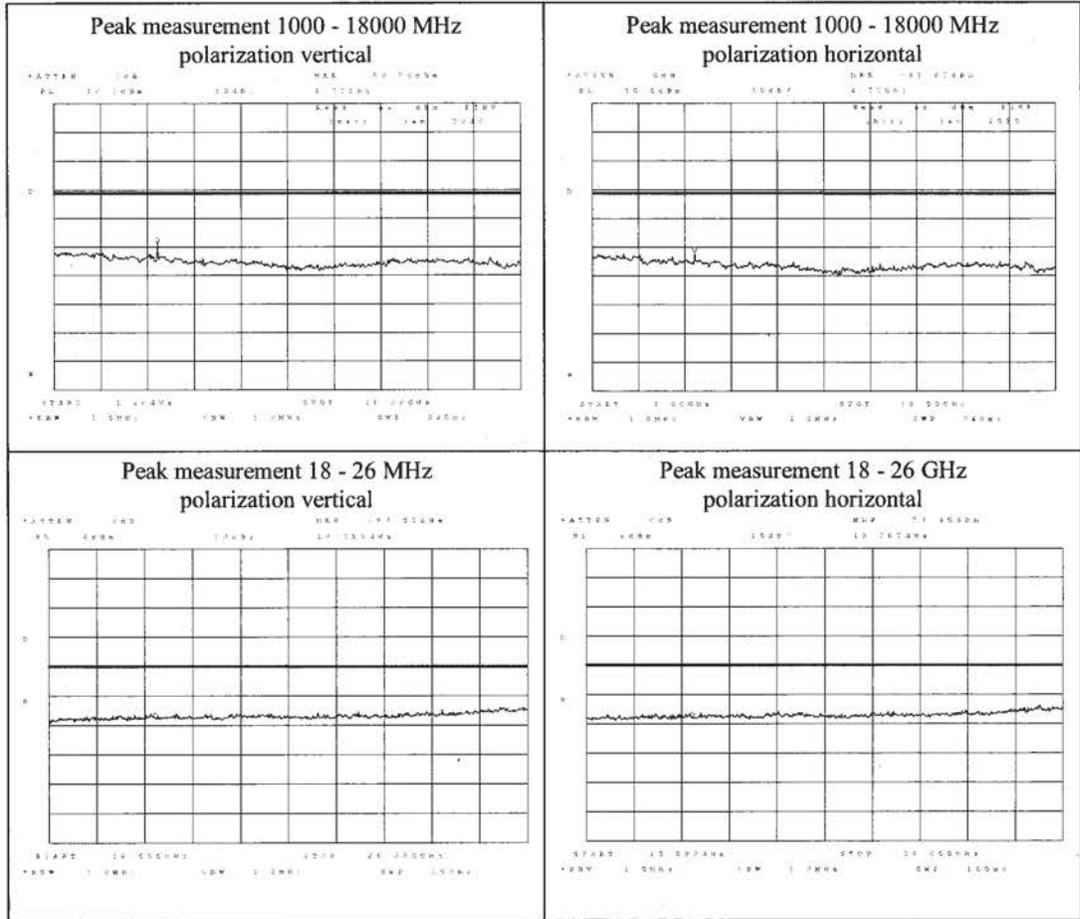


Note: Only peak power was measured. The formula for conversion from power to field strength is:
 $FS (dB\mu V/m) = EIRP (dBm) + 95.2 \text{ dB}$.

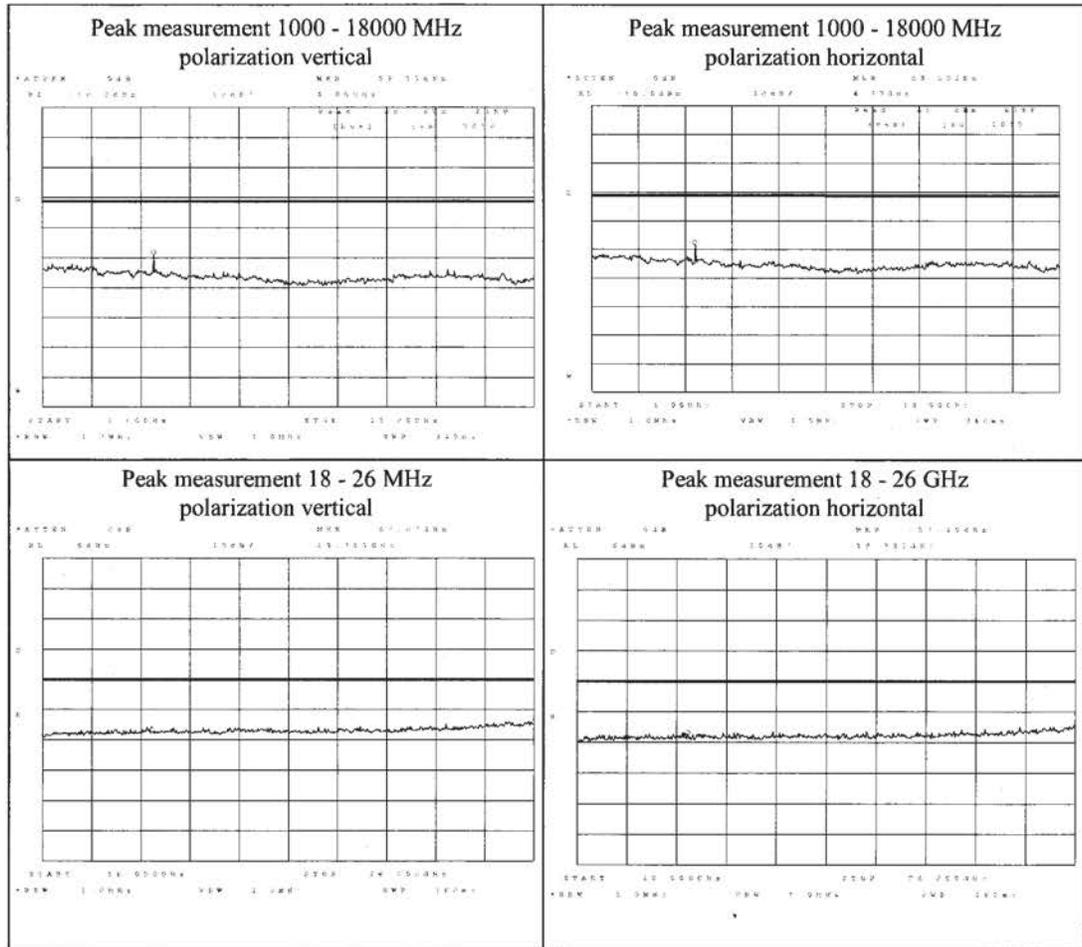
Measurement uncertainty	+4.5/-6.1 dB
Limit	See plot
Measurement equipment used (item numbers refer to section "used test equipment")	1, 3, 6, 8, 10, 11, 12

Compliance standard : FCC part 15, subpart B, section 15.109
 Method of test : ANSI C63.4-2003, sections 5.5, 8.2.3, 8.2.4 & 8.3.1.2;
 FCC part 15, subpart A, section 15.31(m), 15.33, 15.35.
 Test results :

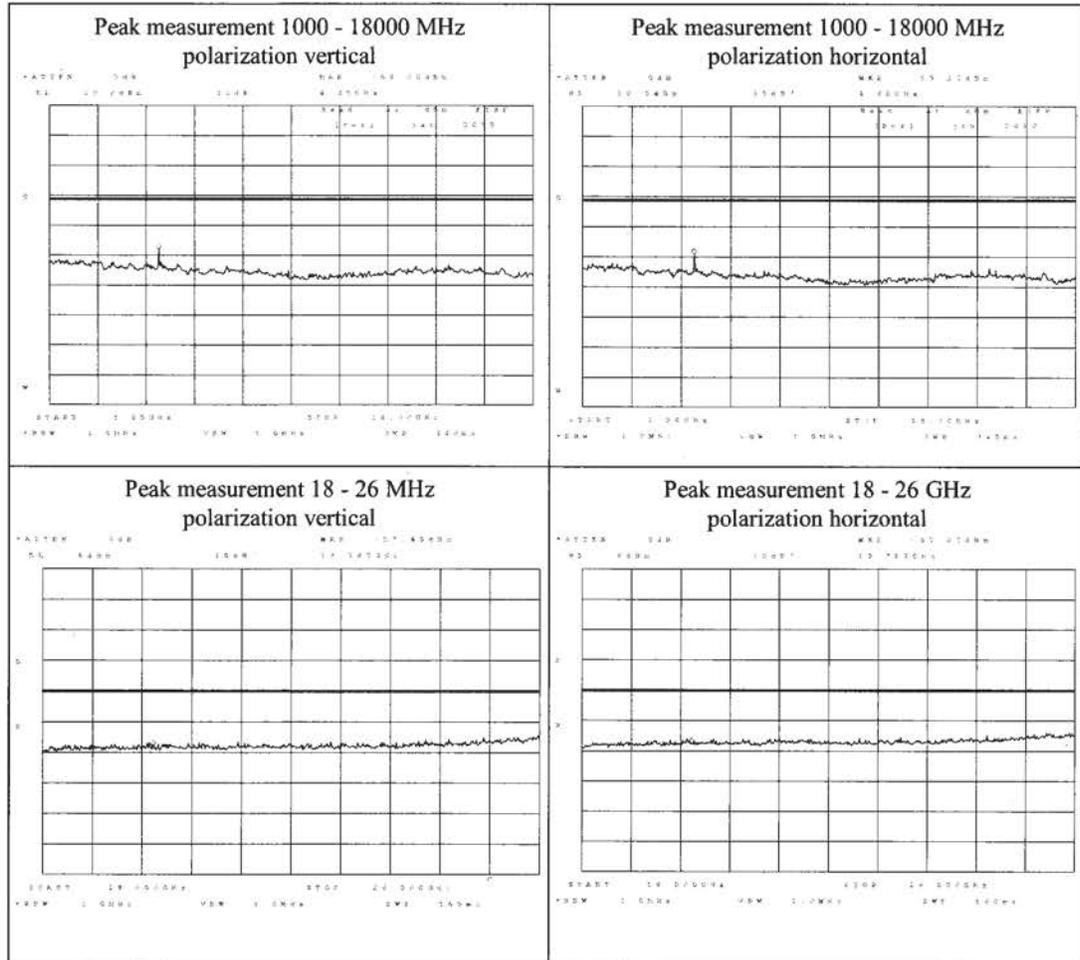
Low channel 2400.5 MHz RX:



Low channel 2440.0 MHz RX:



High channel 2482.5 MHz RX:



Note: Only peak power was measured. The formula for conversion from power to field strength is:
 $FS (dB\mu V/m) = EIRP (dBm) + 95.2 \text{ dB}$.

Measurement uncertainty	+4.5/-6.1 dB
Limit	See plot
Measurement equipment used (item numbers refer to section "used test equipment")	1, 3, 4, 6, 7, 8, 10, 11, 12