

Inter Lab

Final Report on

Cinterion Wireless Module PH8-P

HW: Release 2, B2

SW: Revision 01.370

Report Reference: MDE_CINTE_1107_FCCb

acc. Title 47 CFR chapter I part 22 subpart H

Date: September 22, 2011

Test Laboratory:

7Layers AG Borsigstr. 11 40880 Ratingen Germany



Note:

The following test results relate only to the devices specified in this document. This report shall not be reproduced in parts without the written approval of the test laboratory.

7Layers AG Borsigstrasse 11 40880 Ratingen, Germany Phone: +49 (0) 2102 749 0 Fax: +49 (0) 2102 749 350 www.7Layers.com Aufsichtsratsvorsitzender Chairman of the Supervisory Board: Markus Becker Vorstand Board: Dr. H.-J. Meckelburg Registergericht registered in: Düsseldorf, HRB 44096 USt-IdNr VAT No.: DE 203159652 TAX No. 147/5869/0385



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1 Administrative Data

1.1 Project Data

Project Responsible: Mr. René Houx
Date Of Test Report: 2011/09/22
Date of first test: 2011/08/15
Date of last test: 2011/08/20

1.2 Applicant Data

Company Name: Cinterion Wireless Modules GmbH

Street: Siemensdamm 50
City: 13629 Berlin
Country: Germany

Contact Person: Mr. Thorsten Liebig

Function: Manager Approval

Phone: +49 (30) 31102-8241

E-Mail: thorsten.liebig@cinterion.com

1.3 Test Laboratory Data

The following list shows all places and laboratories involved for test result generation:

7 layers DE

Company Name: 7 layers AG
Street: Borsigstrasse 11
City: 40880 Ratingen
Country: Germany
Contact Person: Mr. Michael Albert

 Contact Person :
 Mr. Michael Albert

 Phone :
 +49 2102 749 201

 Fax :
 +49 2102 749 444

E Mail: michael.albert@7Layers.de

Laboratory Details

 Lab ID
 Identification
 Responsible
 Accreditation Info

 Lab 1
 Radiated Emissions
 Mr. Robert Machulec Mr. Andreas Petz
 DAkkS-Registration no. D-PL-12140-01-01

 Lab 2
 Radio Lab
 Mr. Robert Machulec Mr. Andreas Petz
 DAkkS-Registration no. D-PL-12140-01-01

1.4 Signature of the Testing Responsible

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Robert Machulec

responsible for tests performed in: Lab 1, Lab 2



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1.5 Signature of the Accreditation Responsible

Accreditation scope responsible person responsible for Lab 1, Lab 2

2 Test Object Data

2.1 General OUT Description

The following section lists all OUTs (Object's Under Test) involved during testing.

OUT: PH8-P

Type / Model / Family: Cinterion Wireless Module PH8-P

HW: Release 2, B2 SW: Revision 01.370

Product Category: Module

Parameter List:

mid channel

Parameter name Value

Parameter for Scope FCC_v2:

Antenna gain 1900 band not specified (dBi)
Antenna gain 850 band not specified (dBi)
Antenna gain GPS not specified (dBi)

DC Power Supply 4.2 (V)

highest channel 251 (848.8MHz) for GSM850, 810 (1909.8MHz) for GSM1900, 4233 (846.6MHz) for FDD5, 9538 (1907.6MHz) for FDD2 lowest channel 128 (824.2MHz) for GSM850, 512 (1850.2MHz) for GSM1900,

4132 (826.4MHz) for FDD5, 9262 (1852.4MHz) for FDD2 190 (836.6MHz) for GSM850, 661 (1880.0MHz) for GSM1900,

4183 (836.6MHz) for FDD5, 9400 (1880MHz) for FDD2



Reference: MDE CINTE 1107 FCCb

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2.2 **Detailed Description of OUT Samples**

Sample: b01

OUT Identifier PH8-P Sample Description sample #02

Serial No. IMEI: 004401080640028

HW Status Release 2, B2 SW Status Revision 01.370 Date of Receipt 2011/08/05

Low Voltage 3.3 V -10 °C Low Temp. High Voltage 4.2 V High Temp. +55 °C Nominal Voltage 4.2 V Normal Temp. +22 °C

2.3 **OUT Features**

EDGE850

FDD2

Features for OUT: PH8-P

Designation Descri	iption	Allowed Values	Supported Value(s)
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Features for scope: FCC_v2

The OUT is powered by or connected to AC AC

DC The OUT is powered by or connected to DC

Mains

EUT supports EDGE in the band 824 MHz - 849

EUT supports EDGE in the band 1850 MHz -EDGE1900 1910 MHz

EUT supports UMTS FDD2 in the band 1850 MHz

- 1910 MHz

FDD5 EUT supports UMTS FDD5 in the band 824 MHz -

849 MHz

EUT supports GSM850 band 824MHz - 849MHz GSM850 HSDPA-EUT supports UMTS FDD2 HSDPA in the band

1850 MHz - 1910 MHz FDD2

HSDPA-EUT supports UMTS FDD5 HSDPA in the band

FDD5 824 MHz - 849 MHz

HSUPA-EUT supports UMTS FDD2 HSUPA in the band FDD2 1850 MHz - 1910 MHz

HSUPA-

EUT supports UMTS FDD5 HSUPA in the band FDD5

824 MHz - 849 MHz

permanent fixed antenna connector, which may PantC

be built-in, designed as an indispensable part of

the equipment

EUT supports PCS1900 band 1850MHz -PCS1900

1910MHz



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2.4 Auxiliary Equipment

AE No.	Type Designation	Serial No.	HW Status	SW Status	Description
AE 09	-	-	-	-	Direct RF coupler to SMA
AE 02	-	-	-	-	Flex cable
AE Ant1	-	-	-	-	GSM/UMTS antenna
AE Ant2	-	-	-	-	UMTS antenna
AE Ant3	ANN-MS-0-005 M827B	601657	-	-	GPS antenna
AE 01	DSB75_B1.1_0152	-	-	-	Evaluation board

2.5 Setups used for Testing

For each setup a relation is given to determine if and which samples and auxiliary equipment is used. The left side list all OUT samples and the right side lists all auxiliary equipment for the given setup.

Setup No.	List of OUT sam	ples	List of auxilia	ary equipment
Sample	No.	Sample Description	AE No.	AE Description
B01_direct	(used for mea	surement using antenna	port at the m	odule)
Sample:	b01	sample #02	AE 09	Direct RF coupler to SMA
			AE 02	Flex cable
			AE 01	Evaluation board
B01_rad	(used for radi	ated measurement using	external ante	ennas)
Sample:	b01	sample #02	AE 02	Flex cable
			AE Ant1	GSM/UMTS antenna
			AE Ant2	UMTS antenna
			AE Ant3	GPS antenna
			AE 01	Evaluation board
B01_RF1	(used for mea	surement at external RF	connector RF	1)
Sample:	b01	sample #02	AE 02	Flex cable
			AE 01	Evaluation board



Reference: MDE CINTE 1107 FCCb

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3 Results

3.1 General

Documentation of tested

devices:

Available at the test laboratory.

Interpretation of the

test results:

The results of the inspection are described on the following pages, where 'Conformity' or 'Passed' means that the certification criteria were verified and that the tested device is

conform to the applied standard.

In cases where 'Declaration' is printed, the required documents are available in the manufacturers product documentation.

In cases where 'not applicable' is printed, the test case requirements are not relevant to the specific equipment

implementation.

3.2 List of the Applicable Body

(Body for Scope: FCC_v2)

Designation Description

FCC47CFRChIPART22PUBLIC MOBILE Part 22, Subpart H - Cellular Radiotelephone Service SERVICES

3.3 List of Test Specification

Test Specification: FCC part 2 and 22 Version 10-1-10 Edition

Title: PART 2 - GENERAL RULES AND REGULATIONS

PART 22 - PUBLIC MOBILE SERVICES



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3.4 Summary

Test Case Identifier / Name			Lab	
Test (condition)	Result	Date of Test	Ref.	Setup
22.1 RF Power Output §2.1046, §22.913				
22.1; Frequency Band = 850, Mode = EDGE,	Passed	2011/08/19	Lab 2	B01_direct
Channel = 128, Frequency = 824.2MHz,		,,		
Method = conducted				
22.1; Frequency Band = 850, Mode = EDGE,	Passed	2011/08/19	Lab 2	B01_direct
Channel = 190, Frequency = 836.6MHz,				
Method = conducted 22.1; Frequency Band = 850, Mode = EDGE,	Passed	2011/08/19	Lab 2	B01 direct
Channel = 251, Frequency = 848.8MHz,	1 83364	2011/00/19	Lab Z	DOT_direct
Method = conducted				
22.1; Frequency Band = 850, Mode = GSM,	Passed	2011/08/19	Lab 2	B01_direct
Channel = 128, Frequency = 824.2MHz,				
Method = conducted				
22.1; Frequency Band = 850, Mode = GSM,	Passed	2011/08/19	Lab 2	B01_direct
Channel = 190, Frequency = 836.6MHz,				
Method = conducted 22.1; Frequency Band = 850, Mode = GSM,	Passed	2011/08/19	Lab 2	B01 direct
Channel = 251, Frequency = 848.8MHz,	1 43304	2011/00/13	Lab Z	DO1_direct
Method = conducted				
22.1; Frequency Band = FDD5, Mode =	Passed	2011/08/19	Lab 2	B01_direct
HSDPA_subtest_1, Channel = 4132,				
Frequency = 826.4MHz, Method = conducted		2011/00/10		DO4 11 .
22.1; Frequency Band = FDD5, Mode =	Passed	2011/08/19	Lab 2	B01_direct
HSDPA_subtest_1, Channel = 4183, Frequency = 836.6MHz, Method = conducted				
22.1; Frequency Band = FDD5, Mode =	Passed	2011/08/19	Lab 2	B01 direct
HSDPA subtest 1, Channel = 4233,	1 45564	2011/00/15	Lub L	D01_dii 000
Frequency = 846.6MHz, Method = conducted				
22.1; Frequency Band = FDD5, Mode =	Passed	2011/08/19	Lab 2	B01_direct
HSDPA_subtest_2, Channel = 4132,				
Frequency = 826.4MHz, Method = conducted	Daggad	2011/00/10	1.56.2	DO1 discort
22.1; Frequency Band = FDD5, Mode = HSDPA_subtest_2, Channel = 4183,	Passed	2011/08/19	Lab 2	B01_direct
Frequency = 836.6MHz, Method = conducted				
22.1; Frequency Band = FDD5, Mode =	Passed	2011/08/19	Lab 2	B01 direct
HSDPA_subtest_2, Channel = 4233,		, , , , ,		
Frequency = 846.6MHz, Method = conducted				
22.1; Frequency Band = FDD5, Mode =	Passed	2011/08/20	Lab 2	B01_direct
HSDPA_subtest_3, Channel = 4132,				
Frequency = 826.4MHz, Method = conducted 22.1; Frequency Band = FDD5, Mode =	Passed	2011/08/20	Lab 2	B01_direct
HSDPA subtest 3, Channel = 4183,	rasseu	2011/00/20	Lau Z	DO1_direct
Frequency = 836.6MHz, Method = conducted				
22.1; Frequency Band = FDD5, Mode =	Passed	2011/08/20	Lab 2	B01_direct
HSDPA_subtest_3, Channel = 4233,				
Frequency = 846.6MHz, Method = conducted	5 .	2011/02/20		DO4 11 1
22.1; Frequency Band = FDD5, Mode =	Passed	2011/08/20	Lab 2	B01_direct
HSDPA_subtest_4, Channel = 4132, Frequency = 826.4MHz, Method = conducted				
22.1; Frequency Band = FDD5, Mode =	Passed	2011/08/20	Lab 2	B01_direct
HSDPA subtest 4, Channel = 4183,		,,		
Frequency = 836.6MHz, Method = conducted				
22.1; Frequency Band = FDD5, Mode =	Passed	2011/08/20	Lab 2	B01_direct
HSDPA_subtest_4, Channel = 4233,				
Frequency = 846.6MHz, Method = conducted	Passed	2011/00/10	lah 2	B01 direct
22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_1, Channel = 4132,	rasseu	2011/08/19	Lab 2	Po T an ecr
Frequency = 826.4MHz, Method = conducted				
22.1; Frequency Band = FDD5, Mode =	Passed	2011/08/19	Lab 2	B01_direct
HSUPA_subtest_1, Channel = 4183,				
Frequency = 836.6MHz, Method = conducted				



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Tast Casa Identifier / Name		acc. Title 47 CFR o	chapter I p <i>Lab</i>	art 22 subpart F
Test Case Identifier / Name Test (condition)	Result	Date of Test	Ref.	Setup
22.1 RF Power Output §2.1046, §22.913				
22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_1, Channel = 4233,	Passed	2011/08/19	Lab 2	B01_direct
Frequency = 846.6MHz, Method = conducted 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_2, Channel = 4132,	Passed	2011/08/20	Lab 2	B01_direct
Frequency = 826.4MHz, Method = conducted 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_2, Channel = 4183,	Passed	2011/08/20	Lab 2	B01_direct
Frequency = 836.6MHz, Method = conducted 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_2, Channel = 4233,	Passed	2011/08/20	Lab 2	B01_direct
Frequency = 846.6MHz, Method = conducted 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_3, Channel = 4132,	Passed	2011/08/20	Lab 2	B01_direct
Frequency = 826.4MHz, Method = conducted 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_3, Channel = 4183,	Passed	2011/08/20	Lab 2	B01_direct
Frequency = 836.6MHz, Method = conducted 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_3, Channel = 4233,	Passed	2011/08/20	Lab 2	B01_direct
Frequency = 846.6MHz, Method = conducted 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_4, Channel = 4132, Frequency = 826.4MHz, Method = conducted	Passed	2011/08/20	Lab 2	B01_direct
22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_4, Channel = 4183, Frequency = 836.6MHz, Method = conducted	Passed	2011/08/20	Lab 2	B01_direct
22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_4, Channel = 4233, Frequency = 846.6MHz, Method = conducted	Passed	2011/08/20	Lab 2	B01_direct
22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_5, Channel = 4132, Frequency = 826.4MHz, Method = conducted	Passed	2011/08/20	Lab 2	B01_direct
22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_5, Channel = 4183, Frequency = 836.6MHz, Method = conducted	Passed	2011/08/20	Lab 2	B01_direct
22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_5, Channel = 4233, Frequency = 846.6MHz, Method = conducted	Passed	2011/08/20	Lab 2	B01_direct
22.1; Frequency Band = FDD5, Mode = W- CDMA, Channel = 4132, Frequency = 826.4MHz, Method = conducted	Passed	2011/08/19	Lab 2	B01_direct
22.1; Frequency Band = FDD5, Mode = W- CDMA, Channel = 4183, Frequency = 836.6MHz, Method = conducted	Passed	2011/08/19	Lab 2	B01_direct
22.1; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4233, Frequency = 846.6MHz, Method = conducted	Passed	2011/08/19	Lab 2	B01_direct
22.2 Frequency stability §2.1055 22.2; Frequency Band = 850, Mode = EDGE, Channel = 190, Frequency = 836.6MHz	Passed	2011/08/19	Lab 2	B01_RF1
22.2; Frequency Band = 850, Mode = GSM,	Passed	2011/08/19	Lab 2	B01_RF1
Channel = 190, Frequency = 836.6MHz 22.2; Frequency Band = FDD5, Mode = HSDPA, Channel = 4183, Frequency =	Passed	2011/08/19	Lab 2	B01_RF1
836.6MHz 22.2; Frequency Band = FDD5, Mode = HSUPA, Channel = 4183, Frequency = 836.6MHz	Passed	2011/08/19	Lab 2	B01_RF1
22.2; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4183, Frequency = 836.6MHz	Passed	2011/08/19	Lab 2	B01_RF1



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Test Case Identifier / Name		acc. Title 47 CFR C	Lab	art 22 Subpart H
Test (condition)	Result	Date of Test	Ref.	Setup
22.3 Spurious emissions at antenna termin	nals §2.1051, §	22.917		
22.3; Frequency Band = 850, Mode = EDGE, Channel = 128, Frequency = 824.2MHz	Passed	2011/08/19	Lab 2	B01_direct
22.3; Frequency Band = 850, Mode = EDGE, Channel = 190, Frequency = 836.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.3; Frequency Band = 850, Mode = EDGE,	Passed	2011/08/19	Lab 2	B01_direct
Channel = 251, Frequency = 848.8MHz 22.3; Frequency Band = 850, Mode = GSM, Channel = 128, Frequency = 824.2MHz,	Passed	2011/08/19	Lab 2	B01_direct
22.3; Frequency Band = 850, Mode = GSM, Channel = 190, Frequency = 836.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.3; Frequency Band = 850, Mode = GSM, Channel = 251, Frequency = 848.8MHz	Passed	2011/08/19	Lab 2	B01_direct
22.3; Frequency Band = FDD5, Mode = HSDPA, Channel = 4132, Frequency = 826.4MHz	Passed	2011/08/19	Lab 2	B01_direct
22.3; Frequency Band = FDD5, Mode = HSDPA, Channel = 4183, Frequency = 836.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.3; Frequency Band = FDD5, Mode = HSDPA, Channel = 4233, Frequency = 846.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.3; Frequency Band = FDD5, Mode = HSUPA, Channel = 4132, Frequency = 826.4MHz	Passed	2011/08/19	Lab 2	B01_direct
22.3; Frequency Band = FDD5, Mode = HSUPA, Channel = 4183, Frequency = 836.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.3; Frequency Band = FDD5, Mode = HSUPA, Channel = 4233, Frequency = 846.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.3; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4132, Frequency = 826.4MHz	Passed	2011/08/19	Lab 2	B01_direct
22.3; Frequency Band = FDD5, Mode = W- CDMA, Channel = 4183, Frequency = 836.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.3; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4233, Frequency = 846.6MHz	Passed	2011/08/19	Lab 2	B01_direct



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Test Case Identifier / Name		acc. Title 47 CFR chapter I part 22 s <i>Lab</i>			
Test (condition)	Result	Date of Test	Ref.	Setup	
22.4 Field strength of spurious radiation §	2.1053, §22.91	7			
22.4; Frequency Band = 850, Mode = EDGE,	Passed	2011/08/17	Lab 1	B01_rad	
Channel = 128, Frequency = 824.2MHz 22.4; Frequency Band = 850, Mode = EDGE,	Passed	2011/08/17	Lab 1	B01_rad	
Channel = 190, Frequency = 836.6MHz 22.4; Frequency Band = 850, Mode = EDGE, Channel = 251, Frequency = 848.8MHz	Passed	2011/08/17	Lab 1	B01_rad	
22.4; Frequency Band = 850, Mode = GSM, Channel = 128, Frequency = 824.2MHz	Passed	2011/08/17	Lab 1	B01_rad	
22.4; Frequency Band = 850, Mode = GSM, Channel = 190, Frequency = 836.6MHz	Passed	2011/08/17	Lab 1	B01_rad	
22.4; Frequency Band = 850, Mode = GSM, Channel = 251, Frequency = 848.8MHz	Passed	2011/08/17	Lab 1	B01_rad	
22.4; Frequency Band = FDD5, Mode = HSDPA, Channel = 4132, Frequency = 826.4MHz	Passed	2011/08/16	Lab 1	B01_rad	
22.4; Frequency Band = FDD5, Mode = HSDPA, Channel = 4183, Frequency = 836.6MHz	Passed	2011/08/16	Lab 1	B01_rad	
22.4; Frequency Band = FDD5, Mode = HSDPA, Channel = 4233, Frequency = 846.6MHz	Passed	2011/08/16	Lab 1	B01_rad	
22.4; Frequency Band = FDD5, Mode = HSUPA, Channel = 4132, Frequency = 826.4MHz	Passed	2011/08/15	Lab 1	B01_rad	
22.4; Frequency Band = FDD5, Mode = HSUPA, Channel = 4183, Frequency = 836.6MHz	Passed	2011/08/15	Lab 1	B01_rad	
22.4; Frequency Band = FDD5, Mode = HSUPA, Channel = 4233, Frequency = 846.6MHz	Passed	2011/08/15	Lab 1	B01_rad	
22.4; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4132, Frequency = 826.4MHz	Passed	2011/08/16	Lab 1	B01_rad	
22.4; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4183, Frequency = 836.6MHz	Passed	2011/08/16	Lab 1	B01_rad	
22.4; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4233, Frequency = 846.6MHz	Passed	2011/08/16	Lab 1	B01_rad	



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Test Case Identifier / Name			Lab	
Test (condition)	Result	Date of Test	Ref.	Setup
22.5 Emission and Occupied Bandwidth §2.	.1049, §22.917			
22.5; Frequency Band = 850, Mode = EDGE, Channel = 128, Frequency = 824.2MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = 850, Mode = EDGE, Channel = 190, Frequency = 836.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = 850, Mode = EDGE, Channel = 251, Frequency = 848.8MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = 850, Mode = GSM, Channel = 128, Frequency = 824.2MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = 850, Mode = GSM, Channel = 190, Frequency = 836.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = 850, Mode = GSM, Channel = 251, Frequency = 848.8MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = FDD5, Mode = HSDPA, Channel = 4132, Frequency = 826.4MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = FDD5, Mode = HSDPA, Channel = 4183, Frequency = 836.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = FDD5, Mode = HSDPA, Channel = 4233, Frequency = 846.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = FDD5, Mode = HSUPA, Channel = 4132, Frequency = 826.4MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = FDD5, Mode = HSUPA, Channel = 4183, Frequency = 836.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = FDD5, Mode = HSUPA, Channel = 4233, Frequency = 846.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = FDD5, Mode = W- CDMA, Channel = 4132, Frequency = 826.4MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4183, Frequency = 836.6MHz	Passed	2011/08/19	Lab 2	B01_direct
22.5; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4233, Frequency = 846.6MHz	Passed	2011/08/19	Lab 2	B01_direct



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Test Case Identifier / Name			Lab	
Test (condition)	Result	Date of Test	Ref.	Setup
22.6 Band edge compliance §2.1053, §22.9	17			
22.6; Frequency Band = 850, Mode = EDGE,	Passed	2011/08/19	Lab 2	B01_direct
Channel = 128, Frequency = 824.2MHz				
22.6; Frequency Band = 850, Mode = EDGE,	Passed	2011/08/19	Lab 2	B01_direct
Channel = 251, Frequency = 848.8MHz				
22.6; Frequency Band = 850, Mode = GSM,	Passed	2011/08/19	Lab 2	B01_direct
Channel = 128, Frequency = 824.2MHz				
22.6; Frequency Band = 850, Mode = GSM,	Passed	2011/08/19	Lab 2	B01_direct
Channel = 251, Frequency = 848.8MHz				
22.6; Frequency Band = FDD5, Mode =	Passed	2011/08/19	Lab 2	B01_direct
HSDPA, Channel = 4132, Frequency =				
826.4MHz				
22.6; Frequency Band = FDD5, Mode =	Passed	2011/08/19	Lab 2	B01_direct
HSDPA, Channel = 4233, Frequency =				
846.6MHz				
22.6; Frequency Band = FDD5, Mode =	Passed	2011/08/19	Lab 2	B01_direct
HSUPA, Channel = 4132, Frequency =				
826.4MHz				
22.6; Frequency Band = FDD5, Mode =	Passed	2011/08/19	Lab 2	B01_direct
HSUPA, Channel = 4233, Frequency =				
846.6MHz				
22.6; Frequency Band = FDD5, Mode = W-	Passed	2011/08/19	Lab 2	B01_direct
CDMA, Channel = 4132, Frequency =				
826.4MHz				
22.6; Frequency Band = FDD5, Mode = W-	Passed	2011/08/19	Lab 2	B01_direct
CDMA, Channel = 4233, Frequency =				
846.6MHz				



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3.5 Detailed Results

3.5.1 22.1 RF Power Output §2.1046, §22.913

Test: 22.1; Frequency Band = 850, Mode = EDGE, Channel = 128, Frequency = 824.2MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

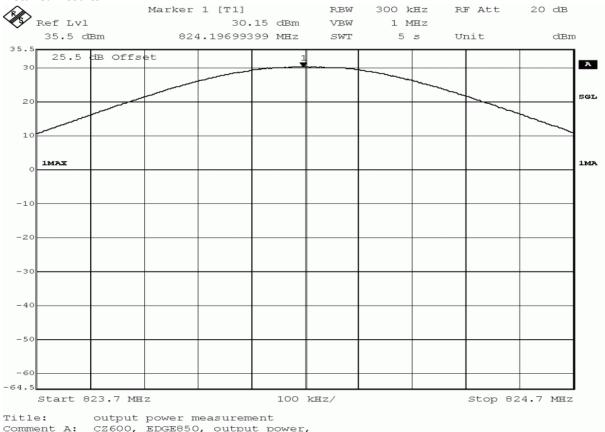
Date of Test: 2011/08/19 20:10

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



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Detailed Results:



Comment A: CZ600, EDGE850, output power, channel 128 (824.2MHz)
Date: 19.AUG.2011 20:12:00



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		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	300	30.15	passed
average	maxhold	300	26.37	passed
rms	maxhold	300	27.03	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.44 dBi

Test: 22.1; Frequency Band = 850, Mode = EDGE, Channel = 190, Frequency = 836.6MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

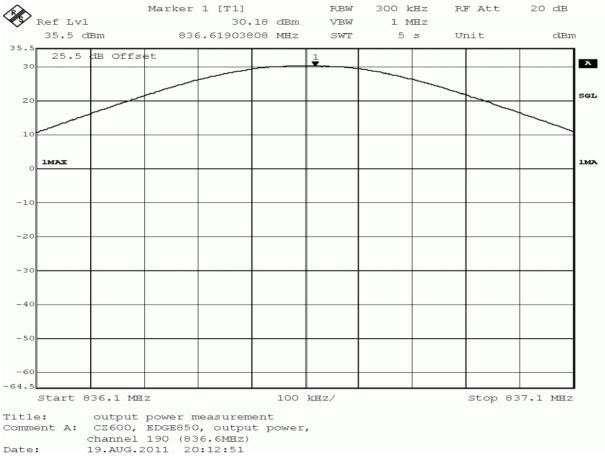
Date of Test: 2011/08/19 20:11

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	300	30.18	passed
average	maxhold	300	26.85	passed
rms	maxhold	300	27.00	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.41 dBi

Test: 22.1; Frequency Band = 850, Mode = EDGE, Channel = 251, Frequency = 848.8MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

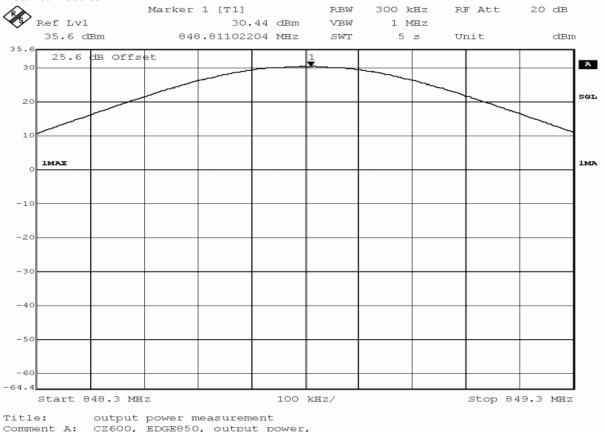
Date of Test: 2011/08/19 20:26

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



Comment A: CZ600, EDGE850, output power, channel 251 (848.8MHz)
Date: 19.AUG.2011 20:27:43



acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	300	30.44	passed
average	maxhold	300	26.80	passed
rms	maxhold	300	27.07	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.15 dBi

Test: 22.1; Frequency Band = 850, Mode = GSM, Channel = 128, Frequency = 824.2MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

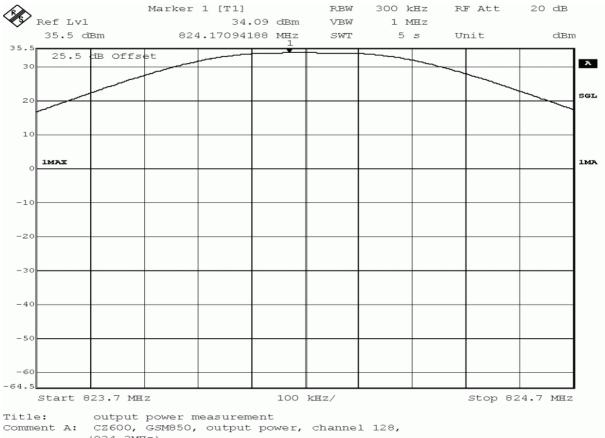
Date of Test: 2011/08/19 20:54

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



(824.2MHz)

Date: 19.AUG.2011 20:55:56



acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	300	34.09	passed
average	maxhold	300	33.52	passed
rms	maxhold	300	33.52	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

6.50 dBi

Test: 22.1; Frequency Band = 850, Mode = GSM, Channel = 190, Frequency = 836.6MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

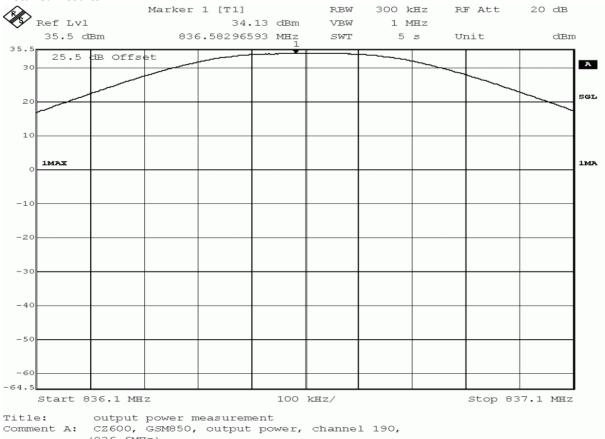
Date of Test: 2011/08/19 20:40

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



(836.6MHz)

Date: 19.AUG.2011 20:42:28



acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	300	34.13	passed
average	maxhold	300	33.59	passed
rms	maxhold	300	33.55	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

6.46 dBi

Test: 22.1; Frequency Band = 850, Mode = GSM, Channel = 251, Frequency = 848.8MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

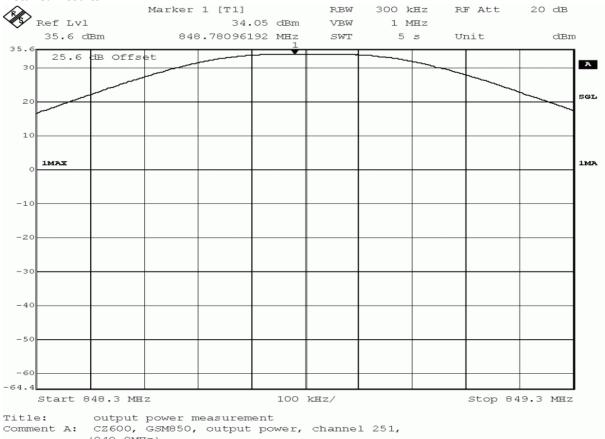
Date of Test: 2011/08/19 21:21

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



(848.8MHz)

Date: 19.AUG.2011 21:22:39



acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	300	34.05	passed
average	maxhold	300	33.47	passed
rms	maxhold	300	33.49	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

6.54 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSDPA_subtest_1, Channel = 4132, Frequency = 826.4MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

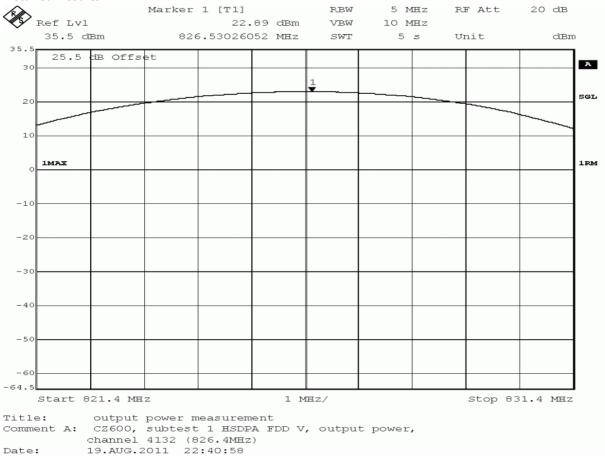
Date of Test: 2011/08/19 22:39

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	28.60	passed
average	maxhold	5000	22.70	passed
rms	maxhold	5000	22.89	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

11.99 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSDPA_subtest_1, Channel = 4183, Frequency = 836.6MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

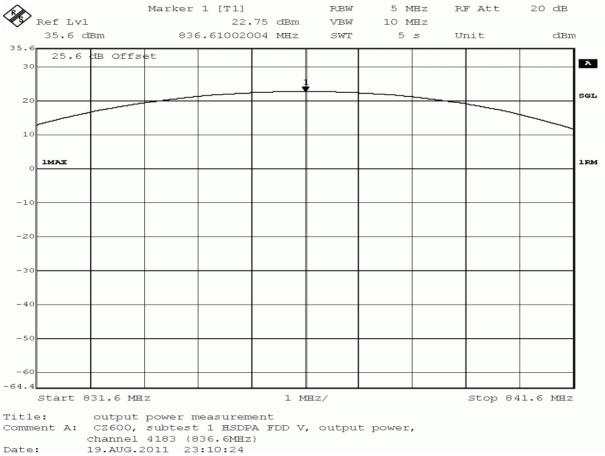
Date of Test: 2011/08/19 23:08

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.60	passed
average	maxhold	5000	22.50	passed
rms	maxhold	5000	22.75	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.99 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSDPA_subtest_1, Channel = 4233, Frequency = 846.6MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

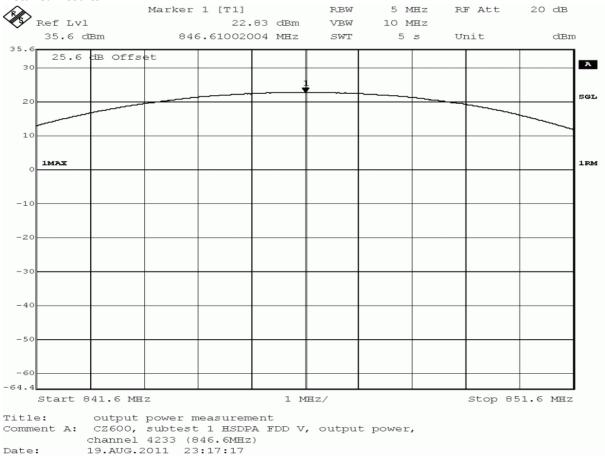
Date of Test: 2011/08/19 23:15

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	28.81	passed
average	maxhold	5000	22.59	passed
rms	maxhold	5000	22.83	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

11.78 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSDPA_subtest_2, Channel = 4132, Frequency = 826.4MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

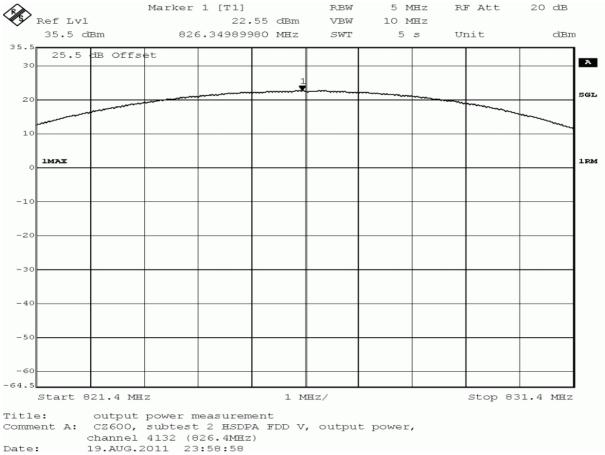
Date of Test: 2011/08/19 23:57

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	30.00	passed
average	maxhold	5000	21.98	passed
rms	maxhold	5000	22.55	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.59 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSDPA_subtest_2, Channel = 4183, Frequency = 836.6MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

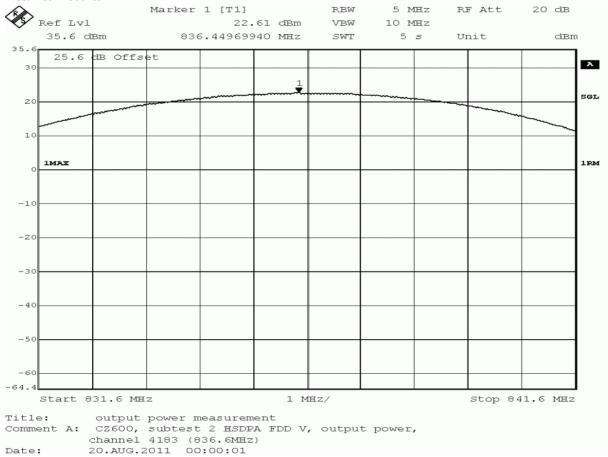
Date of Test: 2011/08/19 23:58

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	30.50	passed
average	maxhold	5000	21.91	passed
rms	maxhold	5000	22.61	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.09 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSDPA_subtest_2, Channel = 4233, Frequency = 846.6MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

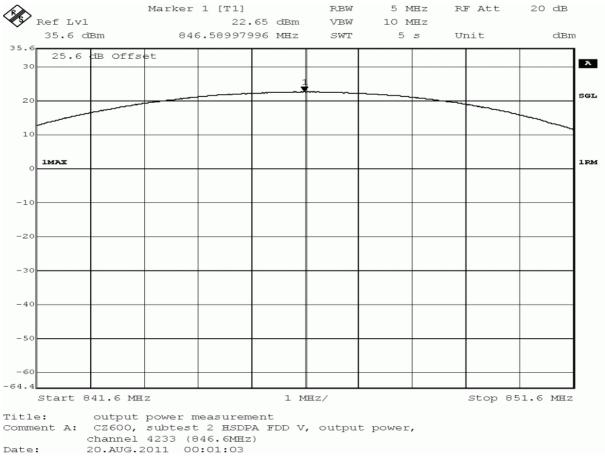
Date of Test: 2011/08/19 23:59

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	30.50	passed
average	maxhold	5000	21.97	passed
rms	maxhold	5000	22.65	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.09 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSDPA_subtest_3, Channel = 4132, Frequency = 826.4MHz, Method = conducted

Result: Passed

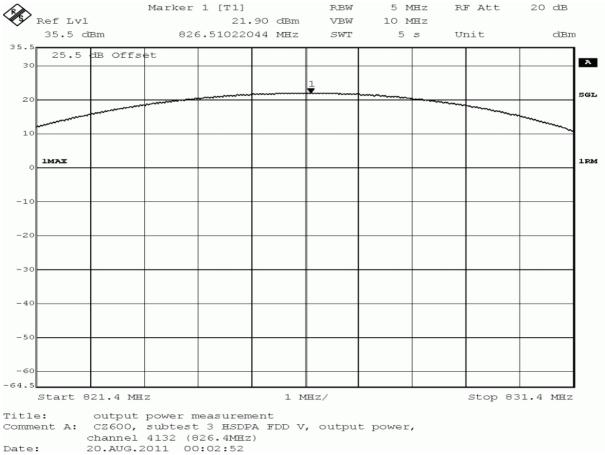
Setup No.: B01_direct

Date of Test: 2011/08/20 0:00

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.63	passed
average	maxhold	5000	20.97	passed
rms	maxhold	5000	21.90	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.96 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSDPA_subtest_3, Channel = 4183, Frequency = 836.6MHz, Method = conducted

Result: Passed

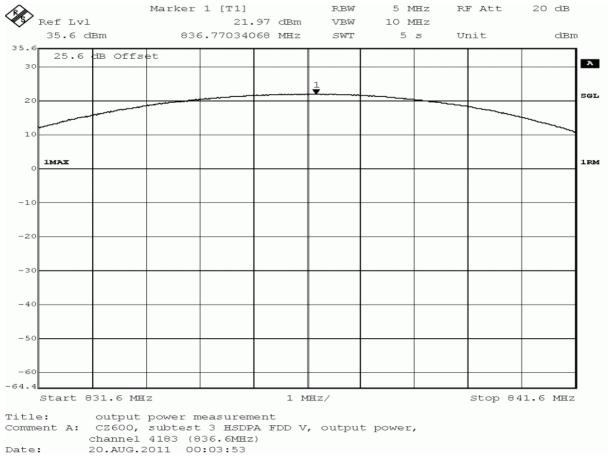
Setup No.: B01_direct

Date of Test: 2011/08/20 0:01

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.32	passed
average	maxhold	5000	21.01	passed
rms	maxhold	5000	21.97	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

11.27 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSDPA_subtest_3, Channel = 4233, Frequency = 846.6MHz, Method = conducted

Result: Passed

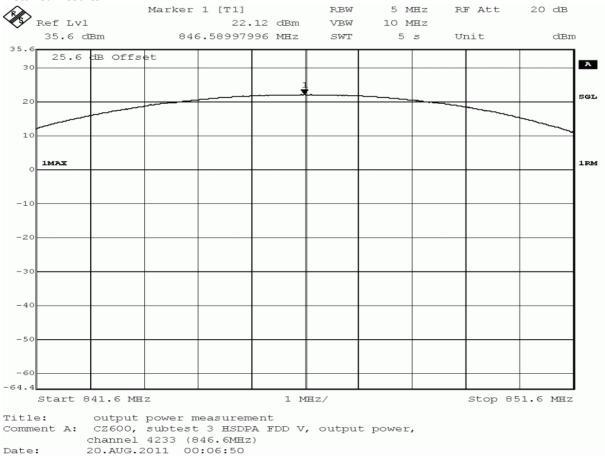
Setup No.: B01_direct

Date of Test: 2011/08/20 0:04

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.81	passed
average	maxhold	5000	21.10	passed
rms	maxhold	5000	22.12	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.78 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSDPA_subtest_4, Channel = 4132, Frequency = 826.4MHz, Method = conducted

Result: Passed

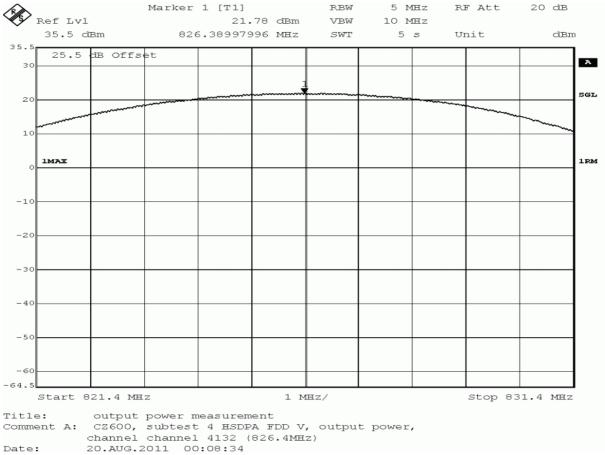
Setup No.: B01_direct

Date of Test: 2011/08/20 0:06

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.63	passed
average	maxhold	5000	20.84	passed
rms	maxhold	5000	21.78	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.96 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSDPA_subtest_4, Channel = 4183, Frequency = 836.6MHz, Method = conducted

Result: Passed

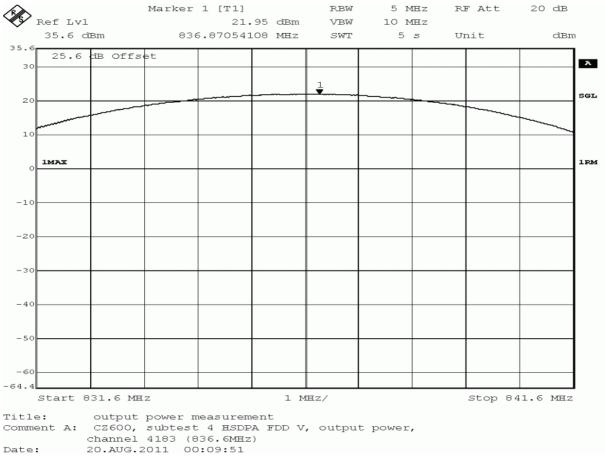
Setup No.: B01_direct

Date of Test: 2011/08/20 0:07

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.93	passed
average	maxhold	5000	20.94	passed
rms	maxhold	5000	21.95	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.66 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSDPA_subtest_4, Channel = 4233, Frequency = 846.6MHz, Method = conducted

Result: Passed

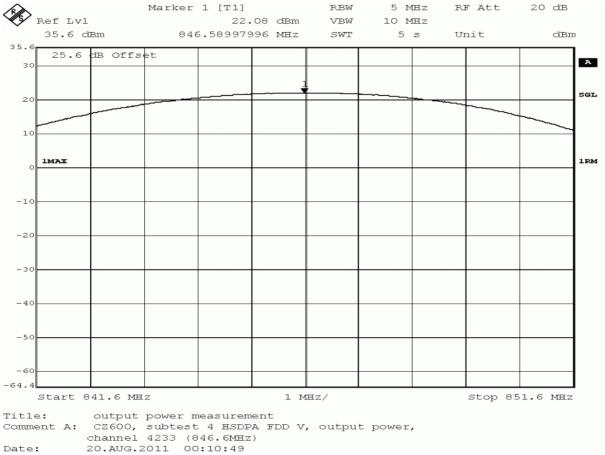
Setup No.: B01_direct

Date of Test: 2011/08/20 0:08

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.81	passed
average	maxhold	5000	20.98	passed
rms	maxhold	5000	22.08	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.78 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_1, Channel = 4132, Frequency = 826.4MHz, Method = conducted

Result: Passed

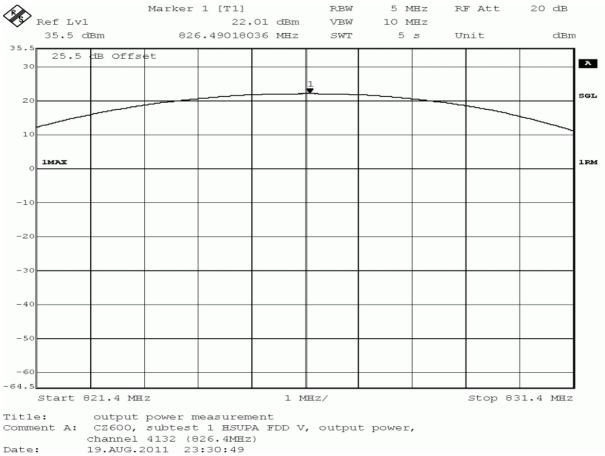
Setup No.: B01_direct

Date of Test: 2011/08/19 23:28

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.50	passed
average	maxhold	5000	21.56	passed
rms	maxhold	5000	22.01	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

11.09 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_1, Channel = 4183, Frequency = 836.6MHz, Method = conducted

Result: Passed

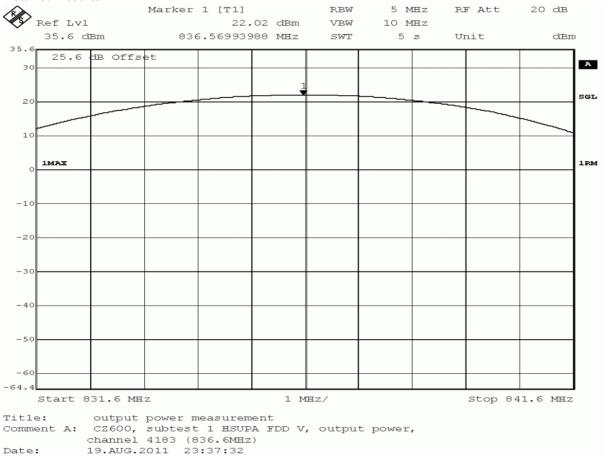
Setup No.: B01_direct

Date of Test: 2011/08/19 23:35

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.73	passed
average	maxhold	5000	21.58	passed
rms	maxhold	5000	22.02	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.86 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_1, Channel = 4233, Frequency = 846.6MHz, Method = conducted

Result: Passed

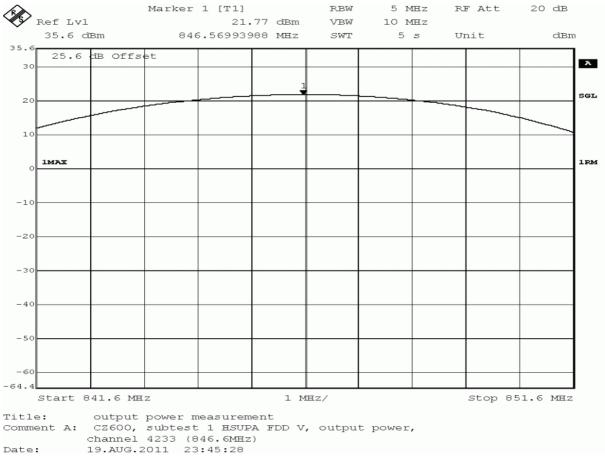
Setup No.: B01_direct

Date of Test: 2011/08/19 23:43

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.20	passed
average	maxhold	5000	21.32	passed
rms	maxhold	5000	21.77	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

11.39 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_2, Channel = 4132, Frequency = 826.4MHz, Method = conducted

Result: Passed

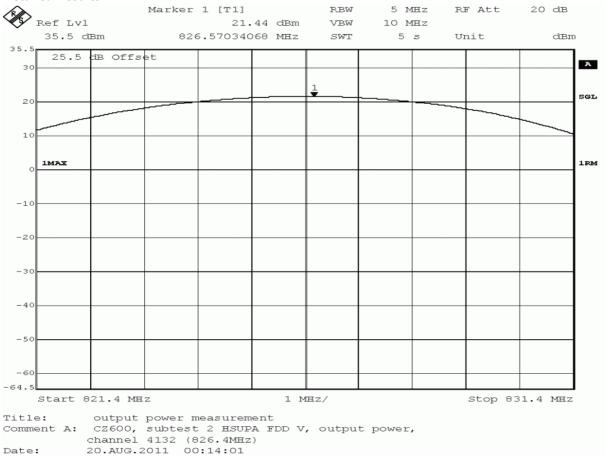
Setup No.: B01_direct

Date of Test: 2011/08/20 0:12

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.71	passed
average	maxhold	5000	20.58	passed
rms	maxhold	5000	21.44	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.88 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_2, Channel = 4183, Frequency = 836.6MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

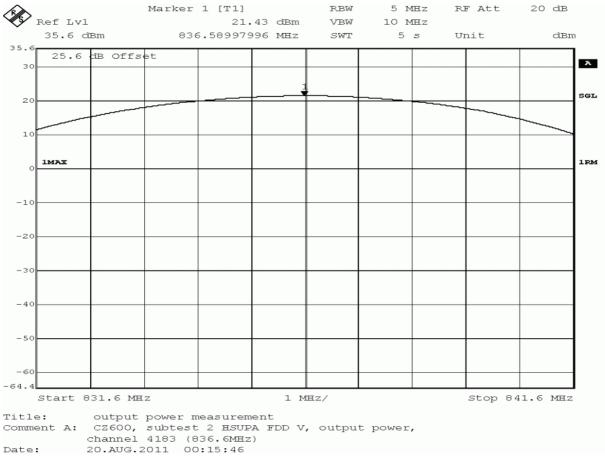
Date of Test: 2011/08/20 0:13

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



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acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.93	passed
average	maxhold	5000	20.53	passed
rms	maxhold	5000	21.43	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.66 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_2, Channel = 4233, Frequency = 846.6MHz, Method = conducted

Result: Passed

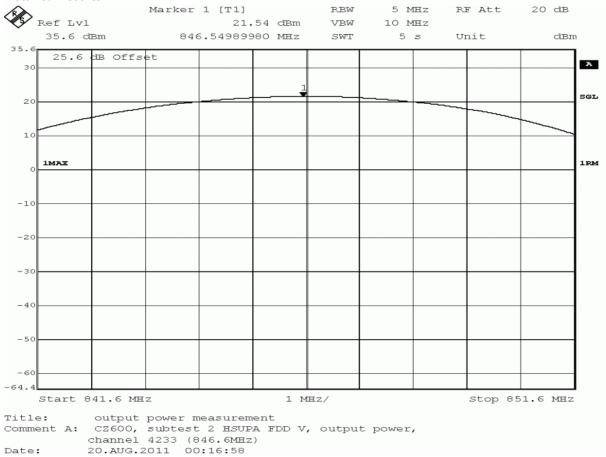
Setup No.: B01_direct

Date of Test: 2011/08/20 0:15

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	30.10	passed
average	maxhold	5000	20.65	passed
rms	maxhold	5000	21.54	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.49 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_3, Channel = 4132, Frequency = 826.4MHz, Method = conducted

Result: Passed

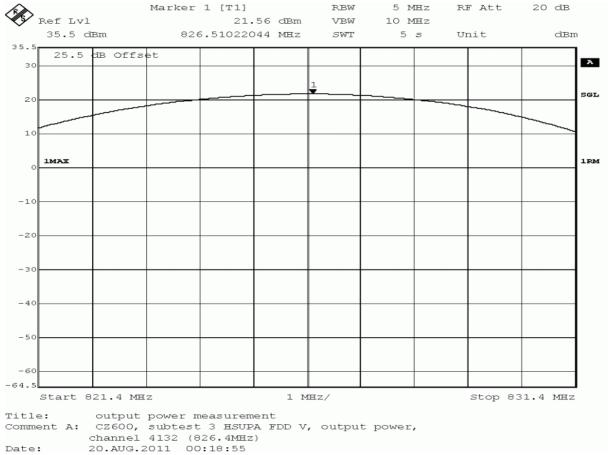
Setup No.: B01_direct

Date of Test: 2011/08/20 0:16

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	30.25	passed
average	maxhold	5000	20.69	passed
rms	maxhold	5000	21.56	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.34 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_3, Channel = 4183, Frequency = 836.6MHz, Method = conducted

Result: Passed

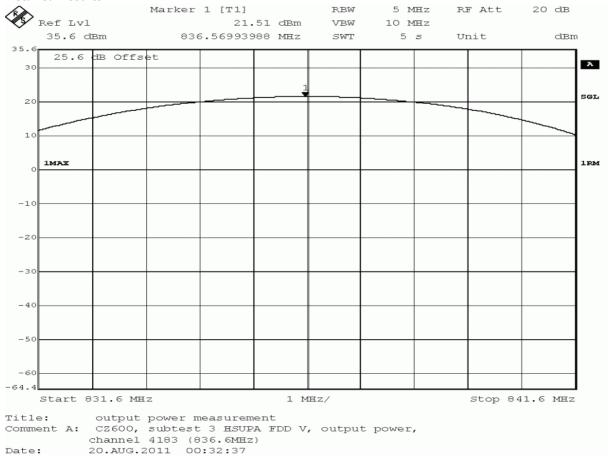
Setup No.: B01_direct

Date of Test: 2011/08/20 0:30

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.73	passed
average	maxhold	5000	20.60	passed
rms	maxhold	5000	21.51	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.86 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_3, Channel = 4233, Frequency = 846.6MHz, Method = conducted

Result: Passed

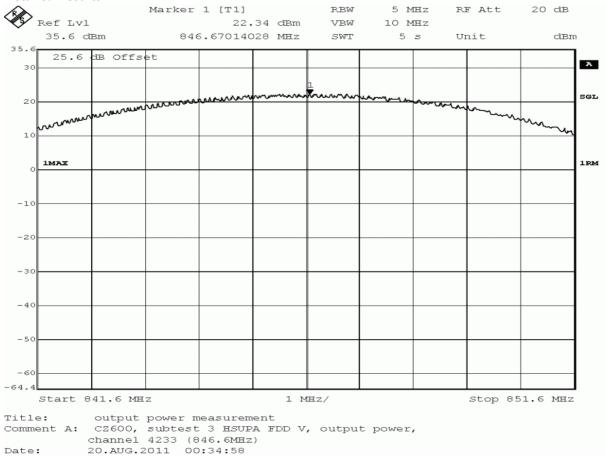
Setup No.: B01_direct

Date of Test: 2011/08/20 0:33

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	30.50	passed
average	maxhold	5000	21.51	passed
rms	maxhold	5000	22.34	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.09 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_4, Channel = 4132, Frequency = 826.4MHz, Method = conducted

Result: Passed

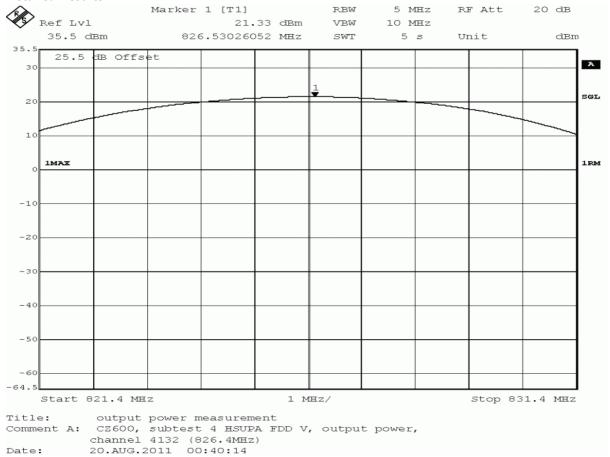
Setup No.: B01_direct

Date of Test: 2011/08/20 0:38

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.50	passed
average	maxhold	5000	20.55	passed
rms	maxhold	5000	21.33	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

11.09 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_4, Channel = 4183, Frequency = 836.6MHz, Method = conducted

Result: Passed

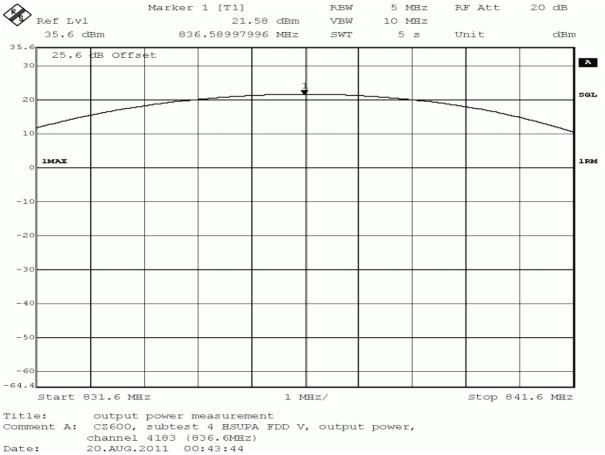
Setup No.: B01_direct

Date of Test: 2011/08/20 0:41

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.73	passed
average	maxhold	5000	20.60	passed
rms	maxhold	5000	21.58	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.86 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_4, Channel = 4233, Frequency = 846.6MHz, Method = conducted

Result: Passed

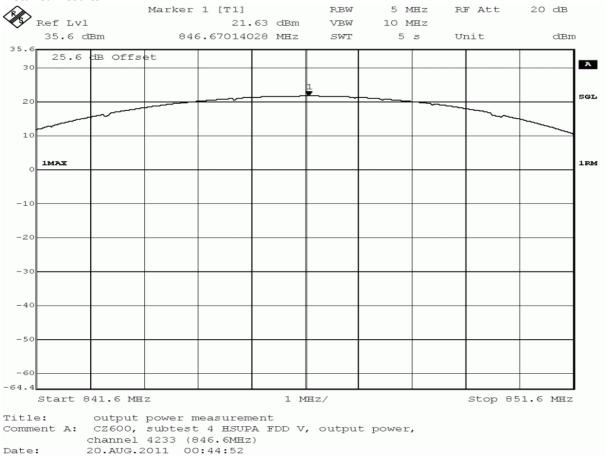
Setup No.: B01_direct

Date of Test: 2011/08/20 0:42

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.81	passed
average	maxhold	5000	20.73	passed
rms	maxhold	5000	21.63	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.78 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_5, Channel = 4132, Frequency = 826.4MHz, Method = conducted

Result: Passed

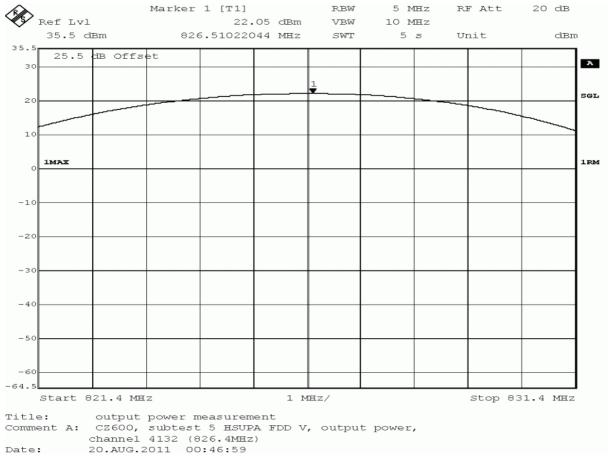
Setup No.: B01_direct

Date of Test: 2011/08/20 0:45

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	29.63	passed
average	maxhold	5000	21.70	passed
rms	maxhold	5000	22.05	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

10.96 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_5, Channel = 4183, Frequency = 836.6MHz, Method = conducted

Result: Passed

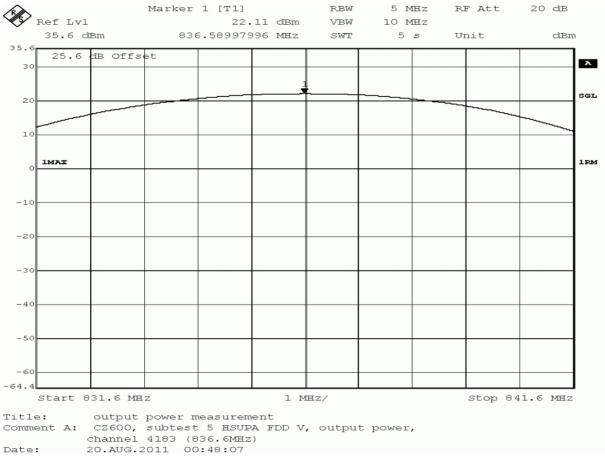
Setup No.: B01_direct

Date of Test: 2011/08/20 0:46

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	28.94	passed
average	maxhold	5000	21.72	passed
rms	maxhold	5000	22.11	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

11.65 dBi

Test: 22.1; Frequency Band = FDD5, Mode = HSUPA_subtest_5, Channel = 4233, Frequency = 846.6MHz, Method = conducted

Result: Passed

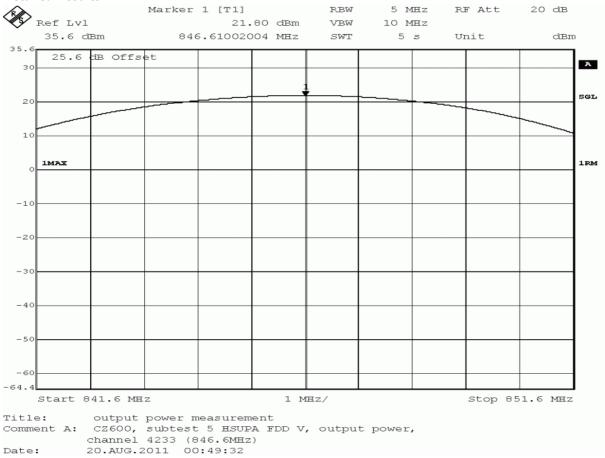
Setup No.: B01_direct

Date of Test: 2011/08/20 0:47

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H





acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	28.70	passed
average	maxhold	5000	21.05	passed
rms	maxhold	5000	21.80	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

11.89 dBi

Test: 22.1; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4132, Frequency = 826.4MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

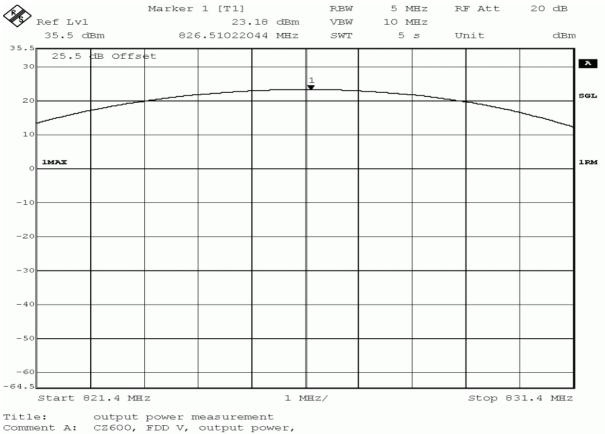
Date of Test: 2011/08/19 22:17

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



Comment A: CZ600, FDD V, output power, channel 4132 (826.4MHz)
Date: 19.AUG.2011 22:19:10



acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	28.84	passed
average	maxhold	5000	23.07	passed
rms	maxhold	5000	23.18	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

11.75 dBi

Test: 22.1; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4183, Frequency = 836.6MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

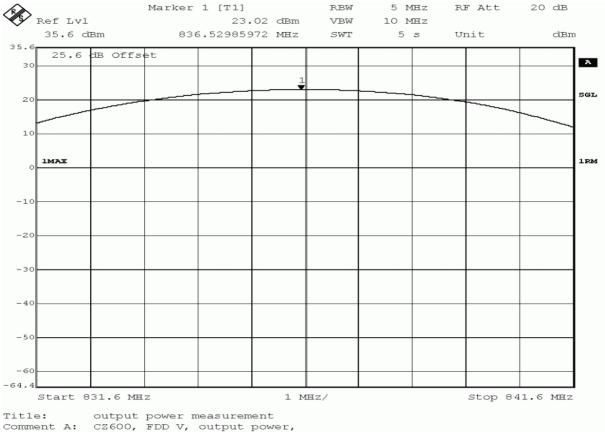
Date of Test: 2011/08/19 22:23

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



Title: output power measurement
Comment A: CZ600, FDD V, output power,
channel 4183 (836.6MHz)
Date: 19.AUG.2011 22:25:11

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acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	28.42	passed
average	maxhold	5000	22.69	passed
rms	maxhold	5000	23.02	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

12.17 dBi

Test: 22.1; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4233, Frequency = 846.6MHz, Method = conducted

Result: Passed

Setup No.: B01_direct

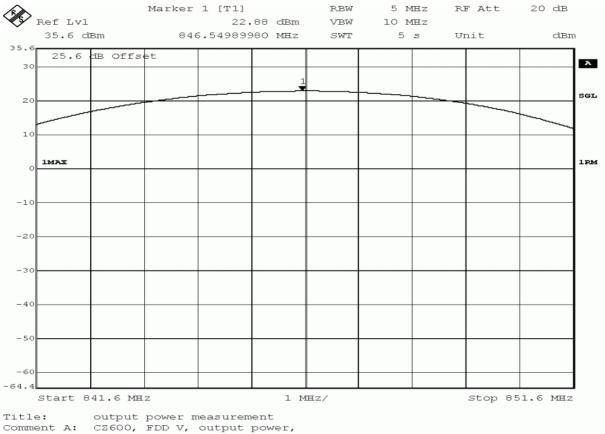
Date of Test: 2011/08/19 22:29

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



Comment A: CZ600, FDD V, output power, channel 4233 (846.6MHz)
Date: 19.AUG.2011 22:31:37



acc. Title 47 CFR chapter I part 22 subpart H

		resolution	conducted	
detector	trace	bandwidth	peak	verdict
		/kHz	value /dBm	
peak	maxhold	5000	28.57	passed
average	maxhold	5000	22.67	passed
rms	maxhold	5000	22.88	passed

no external antenna gain is specified, the verdict is valid

for external antenna gains equal or less than

12.02 dBi



acc. Title 47 CFR chapter I part 22 subpart H

3.5.2 22.2 Frequency stability §2.1055

Test: 22.2; Frequency Band = 850, Mode = EDGE, Channel = 190, Frequency = 836.6MHz

Result: Passed

Setup No.: B01_RF1

Date of Test: 2011/08/19 8:58

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

		F	CC part 22	frequency	stability		
			EDGE	850 TCH 1	90		
			oltage / V				
		4	.2				
Temp.	Duration	Freq. error	Freq. error				
°C	min	Average	Max. (Hz)				
-30	0	33	39				
-30	5	35	44				
-30	10	38	45				
-20	0	-31	-37				
-20	5	-18	-24				
-20	10	-24	-30				
-10	0	1	7				
-10	5	-20	-35				
-10	10	26	33				
0	0	24	29				
0	5	21	28				
0	10	15	22				
10	0	-14	-22				
10	5	-39	-45				
10	10	-31	-36				
30	0	-46	-56				
30	5	-42	-46				
30	10	-29	-33				
40	0	-42	-52				
40	5	-22	-27				
40	10	-36	-41				
50	0	-16	-22				
50	5	-39	-46				
50	10	-45	-52				
emark	none						
		Minimum \	/oltage / V	Normal V	oltage / V	Maximum '	Voltage / V
		85%	=3.3	100%	n=4.2	115%	o=x.x
emp.	Duration	Freq. error					
°C	min	Average	Max. (Hz)	Average	Max. (Hz)	Average	Max. (Hz)
20	0	-37	-44	-31	-40	-	-
20	5	-38	-43	-24	-28	-	-
20	10	-31	-36	-11	-16	-	-



acc. Title 47 CFR chapter I part 22 subpart H

Test: 22.2; Frequency Band = 850, Mode = GSM, Channel = 190, Frequency = 836.6MHz

Result: Passed

Setup No.: B01_RF1

Date of Test: 2011/08/19 8:58

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES

Test Specification: FCC part 2 and 22

			GSM	850 TCH 19	90		
		Normal V	oltage / V				
			.2				
Temp.	Duration	Freq. error	Freq. error				
°C	min	Average	Max. (Hz)				
-30	0	5	9				
-30	5	-3	-6				
-30	10	18	11				
-20	0	16	23				
-20	5	-4	-11				
-20	10	14	19				
-10	0	20	25				
-10	5	12	16				
-10	10	25	28				
0	0	18	28				
0	5	12	19				
0	10	10	14				
10	0	-12	-19				
10	5	-5	-10				
10	10	-2	-6				
30	0	-24	-33				
30	5	-26	-37				
30	10	-12	-17				
40	0	-16	-24				
40	5	-8	-11				
40	10	-8	-13				
50	0	-24	-45				
50	5	-11	-17				
50	10	-18	-30				
Remark	none						
		N4: :	(.)	N			() () () ()
			/oltage / V		oltage / V		Voltage / V
Tau-:-	Dunctic		=3.3		6=4.2		0=X.X
Temp. °C	Duration	Freq. error Average	Freq. error Max. (Hz)	Freq. error Average	Freq. error Max. (Hz)	Freq. error Average	Freq. error Max. (Hz)
20	min 0					,,,,,	
20	5	-18	-25	-31	-40 30		-
20	10	-10	-16	-24	-28	-	-
		2	6 reach (115%	-11	-16		



acc. Title 47 CFR chapter I part 22 subpart H

Test: 22.2; Frequency Band = FDD5, Mode = HSDPA, Channel = 4183, Frequency = 836.6MHz

Result: Passed

Setup No.: B01_RF1

Date of Test: 2011/08/19 8:55

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES

Test Specification: FCC part 2 and 22

		F	CC part 22	frequency	stability		
		UTR	A FDD V H	ISDPA UAI	RFCN 4183	}	
			oltage / V				
			.2				
Γemp.	Duration	Freq. error	Freq. error				
°C	min	Average	Max. (Hz)				
-30	0	-7	-11				
-30 -30	5	-5 2	-10 -5				
-20	10 0	-2 -2	-5 -9				
-20	5	-3	-9				
-20	10	-3 -2	-8				
-10	0	-3	-11				
-10	5	-4	-11				
-10	10	-3	-7				
0	0	6	15				
0	5	4	11				
0	10	4	9				
10	0	-4	-11				
10	5	0	10				
10	10	2	8				
30	0	-2	-8				
30	5	1	7				
30	10	2	8				
40	0	-4	-9				
40	5	-5	-10				
40	10	-5	-9				
50	0	-4	10				
50	5	-4	14				
50	10	-3	-18				
emark	none						
			/oltage / V		oltage / V		Voltage / V
	Dometic		=3.3		0=4.2		0=X.X
°C	Duration min	Freq. error Average	Freq. error Max. (Hz)	Freq. error Average	Freq. error Max. (Hz)	Freq. error Average	Freq. error Max. (Hz)
20	0			··· ·		-	-
20	5	-4 -5	-13 -14	-5 1	-12 7	_	_
20	10	-5 -2	-14	1 2	9	-	_



acc. Title 47 CFR chapter I part 22 subpart H

Test: 22.2; Frequency Band = FDD5, Mode = HSUPA, Channel = 4183, Frequency = 836.6MHz

Result: Passed

Setup No.: B01_RF1

Date of Test: 2011/08/19 8:59

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES

Test Specification: FCC part 2 and 22

		F	CC part 22	frequency	stability		
		UTR	A FDD V H	ISUPA UAF	RFCN 4183	}	
			oltage / V				
			.2				
Temp.	Duration	Freq. error Average	Freq. error Max. (Hz)				
°C	min	/u_\					
-30	0	-4	-8				
-30 -30	5	-2	-4				
-20	10 0	-4	17 -10				
-20	5	-2	-10				
-20	10	3	16				
-10	0	-3	-11				
-10	5	2	19				
-10	10	5	22				
0	0	-4	-12				
0	5	-4	-9				
0	10	0	-7				
10	0	-3	-9				
10	5	-5	-7				
10	10	-2	-5				
30	0	-1	-10				
30	5	-2	-7				
30	10	3	6				
40	0	-6	-12				
40	5	-5	-9				
40	10	-4	-6				
50	0	2	9				
50	5	3	10				
50	10	-1	-4				
emark	none						
			/oltage / V		oltage / V		Voltage / V
F	Dometic		=3.3		0=4.2		6=X.X
Temp. °C	Duration min	Freq. error Average	Freq. error Max. (Hz)	Freq. error Average	Freq. error Max. (Hz)	Freq. error Average	Freq. error Max. (Hz)
20	0			-3		-	
20	5	-4 -5	-9 -7	-3 -2	-8 -5	-	-
20	10	-5 -4	-7 -9	-2 -1	-3	-	-



acc. Title 47 CFR chapter I part 22 subpart H

Test: 22.2; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4183, Frequency = 836.6MHz

Result: Passed

Setup No.: B01_RF1

Date of Test: 2011/08/19 8:59

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES

Test Specification: FCC part 2 and 22

				frequency			
			UTRA FDD	V UARFC	N 4183		
		N 1 \ /	11				
		Normal Voltage / V 4.2					
Temp.	Duration	Freg. error	Freq. error				
°C	min	Average	Max. (Hz)				
-30	0	-6	-20				
-30	5	-1	-18				
-30	10	-5	-18				
-20	0	2	19				
-20	5	-5	-17				
-20	10	-4	-16				
-10	0	-3	-19				
-10	5	-3	-14				
-10	10	-5	-18				
0	0	5	21				
0	5	3	14				
0	10	4	18				
10	0	-1	-22				
10	5	-6	-11				
10	10	-6	-15				
30	0	6	16				
30	5	6	12				
30	10	-1	-14				
40	0	-4	-20				
40	5	-3	-11				
40	10	-4	-15				
50	0	-4	-11				
50	5	-4	-12				
50	10	-3	-16				
emark	none						
		Minimum \	/oltage / V	Normal V	oltage / V	Maximum	Voltage / V
		85%			6=4.2		0=X.X
emp.	Duration	Freq. error	Freq. error	Freq. error	Freq. error	Freq. error	Freq. error
°C	min	Average	Max. (Hz)	Average	Max. (Hz)	Average	Max. (Hz)
20	0	-1	9	0	12	-	-
20	5	-8	-21	5	15	-	-
20	10	-8	-18	-2	-11	-	-



acc. Title 47 CFR chapter I part 22 subpart H

3.5.3 22.3 Spurious emissions at antenna terminals §2.1051, §22.917

Test: 22.3; Frequency Band = 850, Mode = EDGE, Channel = 128, Frequency = 824.2MHz

Result: Passed

Setup No.: B01_direct

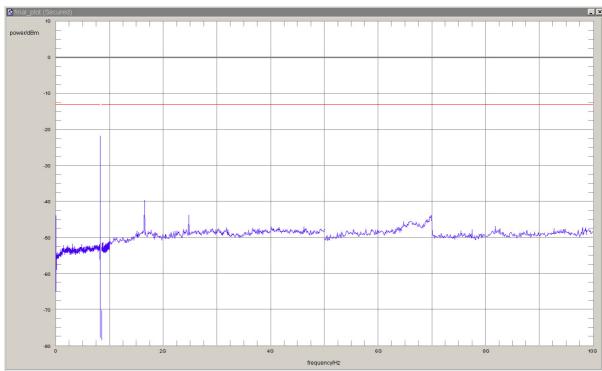
Date of Test: 2011/08/19 20:22

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
peak	maxhold	3	823.9379	-31.8	18.8	-13.0	passed
peak	maxhold	3	823.9559	-26.3	13.3	-13.0	passed
peak	maxhold	3	823.9800	-21.8	8.8	-13.0	passed
peak	maxhold	3	823.9900	-23.0	10.0	-13.0	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = 850, Mode = EDGE, Channel = 190, Frequency = 836.6MHz

Result: Passed

Setup No.: B01_direct

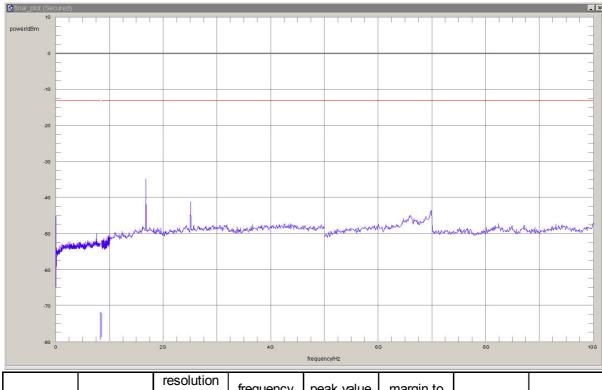
Date of Test: 2011/08/19 20:05

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
peak	maxhold	100	1673.347	-34.82	21.82	-13	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = 850, Mode = EDGE, Channel = 251, Frequency = 848.8MHz

Result: Passed

Setup No.: B01_direct

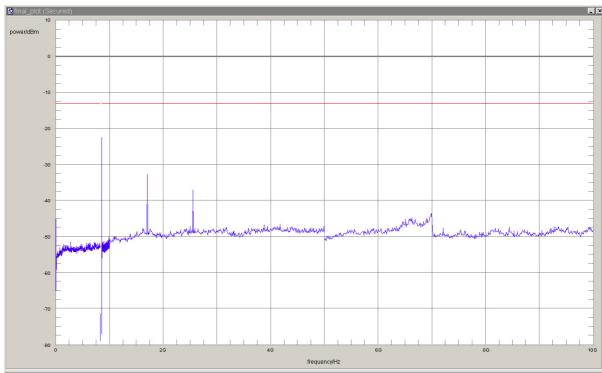
Date of Test: 2011/08/19 20:36

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
peak	maxhold	3	849.0020	-23.6	10.6	-13.0	passed
peak	maxhold	3	849.0080	-23.8	10.8	-13.0	passed
peak	maxhold	3	849.0240	-22.5	9.5	-13.0	passed
peak	maxhold	3	849.0321	-22.9	9.9	-13.0	passed
peak	maxhold	3	849.0501	-25.8	12.8	-13.0	passed
peak	maxhold	3	849.0561	-32.9	19.9	-13.0	passed
peak	maxhold	3	849.0701	-30.3	17.3	-13.0	passed
peak	maxhold	100	1697.39	-32.8	19.8	-13.0	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = 850, Mode = GSM, Channel = 128, Frequency = 824.2MHz,

Result: Passed

Setup No.: B01_direct

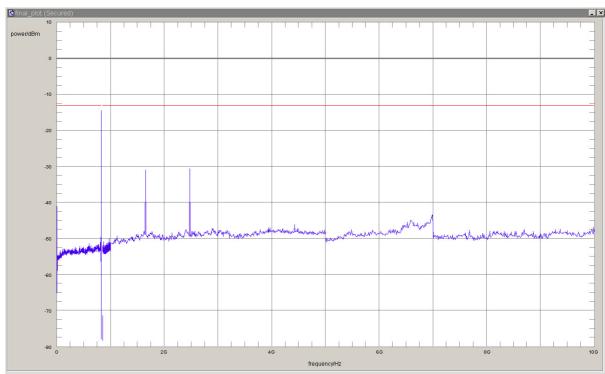
Date of Test: 2011/08/19 22:14

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
peak	maxhold	3	823.9178	-24.4	11.4	-13.0	passed
peak	maxhold	3	823.9419	-21.8	8.8	-13.0	passed
peak	maxhold	3	823.9719	-15.0	2.0	-13.0	passed
peak	maxhold	3	823.9820	-14.8	1.8	-13.0	passed
peak	maxhold	3	823.9980	-14.4	1.4	-13.0	passed
peak	maxhold	100	1649.30	-31.0	18.0	-13.0	passed
peak	maxhold	100	2474.95	-30.6	17.6	-13.0	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = 850, Mode = GSM, Channel = 190, Frequency = 836.6MHz

Result: Passed

Setup No.: B01_direct

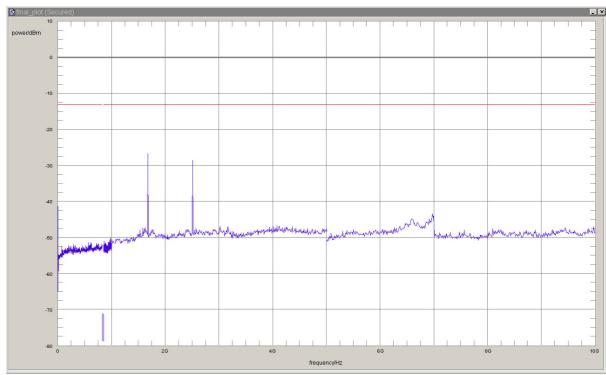
Date of Test: 2011/08/19 20:51

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
peak	maxhold	100	1673.35	-26.7	13.7	-13.0	passed
peak	maxhold	100	2507.01	-28.5	15.5	-13.0	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = 850, Mode = GSM, Channel = 251, Frequency = 848.8MHz

Result: Passed

Setup No.: B01_direct

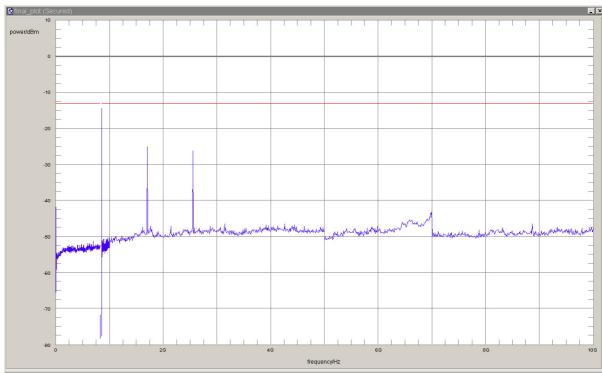
Date of Test: 2011/08/19 21:58

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
peak	maxhold	3	849.0020	-17.3	4.3	-13.0	passed
peak	maxhold	3	849.0281	-14.5	1.5	-13.0	passed
peak	maxhold	3	849.0341	-15.7	2.7	-13.0	passed
peak	maxhold	3	849.0541	-18.7	5.7	-13.0	passed
peak	maxhold	3	849.0641	-22.6	9.6	-13.0	passed
peak	maxhold	3	849.0922	-30.9	17.9	-13.0	passed
peak	maxhold	100	1697.39	-25.1	12.1	-13.0	passed
peak	maxhold	100	2547.09	-26.2	13.2	-13.0	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = FDD5, Mode = HSDPA, Channel = 4132, Frequency = 826.4MHz

Result: Passed

Setup No.: B01_direct

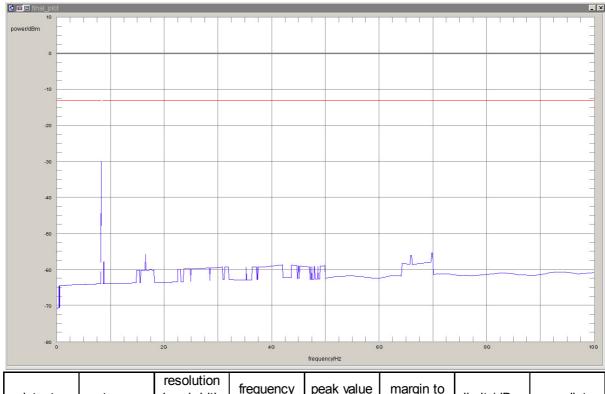
Date of Test: 2011/08/19 22:52

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
rms	maxhold	50	823.98	-30.1	17.1	-13.0	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = FDD5, Mode = HSDPA, Channel = 4183, Frequency = 836.6MHz

Result: Passed

Setup No.: B01_direct

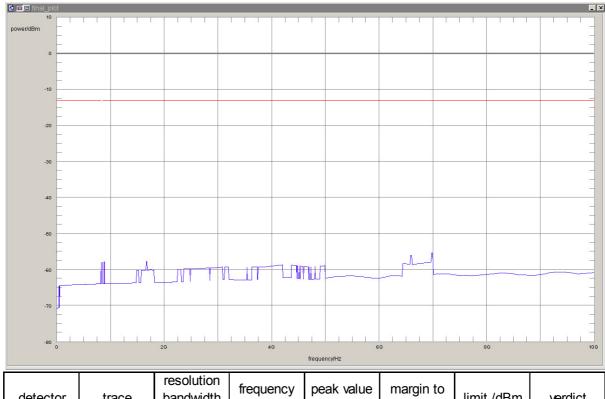
Date of Test: 2011/08/19 23:11

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
rms	maxhold	1	0.009	-55.22	42.22	-13	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = FDD5, Mode = HSDPA, Channel = 4233, Frequency = 846.6MHz

Result: Passed

Setup No.: B01_direct

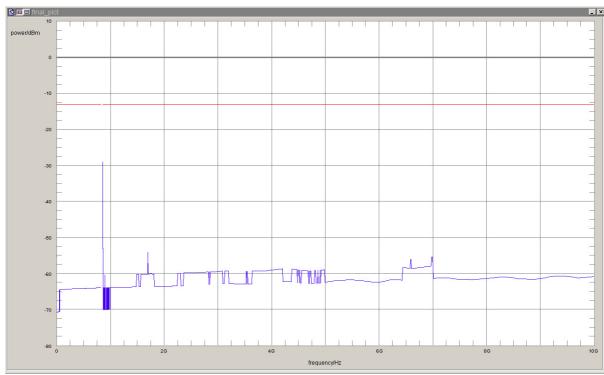
Date of Test: 2011/08/19 23:18

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
rms	maxhold	50	849.04	-29.1	16.1	-13.0	passed
rms	maxhold	100	850.27	-32.3	19.3	-13.0	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = FDD5, Mode = HSUPA, Channel = 4132, Frequency = 826.4MHz

Result: Passed

Setup No.: B01_direct

Date of Test: 2011/08/19 23:31

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
rms	maxhold	100	822.95	-33.0	20.0	-13.0	passed
rms	maxhold	50	823.97	-30.9	17.9	-13.0	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = FDD5, Mode = HSUPA, Channel = 4183, Frequency = 836.6MHz

Result: Passed

Setup No.: B01_direct

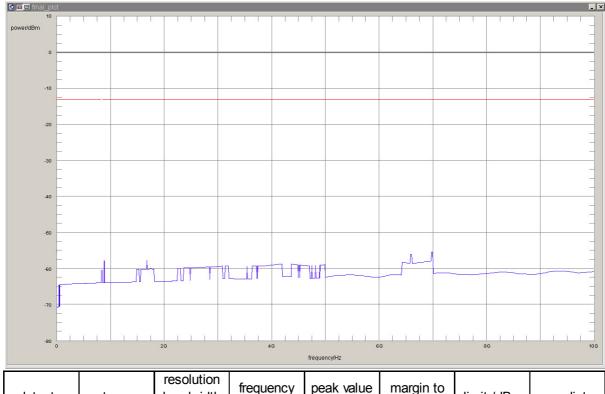
Date of Test: 2011/08/19 23:38

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
rms	maxhold	1	0.009	-55.22	42.22	-13	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = FDD5, Mode = HSUPA, Channel = 4233, Frequency = 846.6MHz

Result: Passed

Setup No.: B01_direct

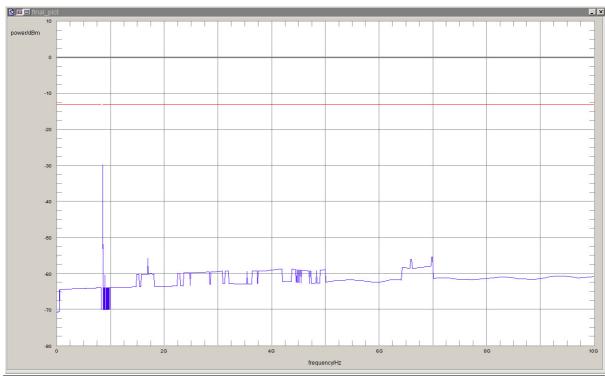
Date of Test: 2011/08/19 23:51

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
rms	maxhold	50	849.05	-29.8	16.8	-13.0	passed
rms	maxhold	100	850.05	-30.1	17.1	-13.0	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4132, Frequency = 826.4MHz

Result: Passed

Setup No.: B01_direct

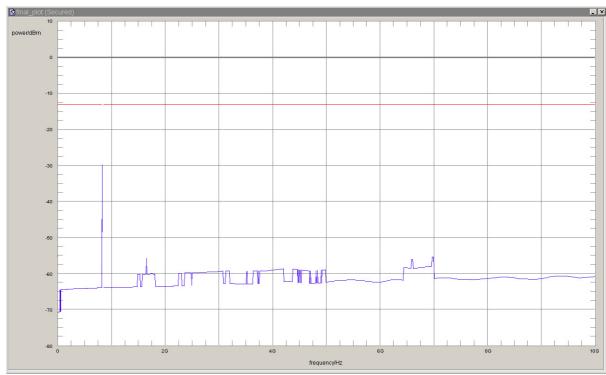
Date of Test: 2011/08/19 22:19

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
rms	maxhold	100	822.80	-33.0	20.0	-13.0	passed
rms	maxhold	50	823.99	-29.8	16.8	-13.0	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4183, Frequency = 836.6MHz

Result: Passed

Setup No.: B01_direct

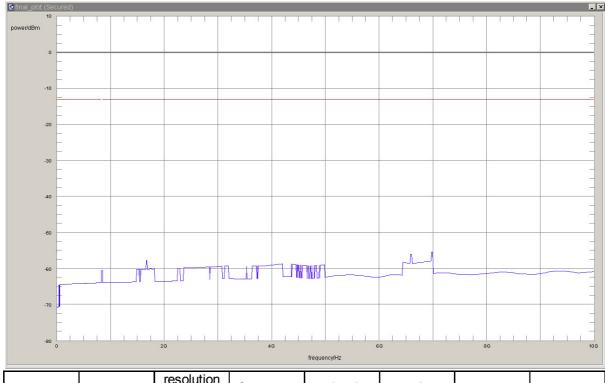
Date of Test: 2011/08/19 22:25

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
rms	maxhold	1	0.009	-55.22	42.22	-13	passed

no further values have been found with a margin of less than 20 dB

Test: 22.3; Frequency Band = FDD5, Mode = W-CDMA, Channel = 4233, Frequency = 846.6MHz

Result: Passed

Setup No.: B01_direct

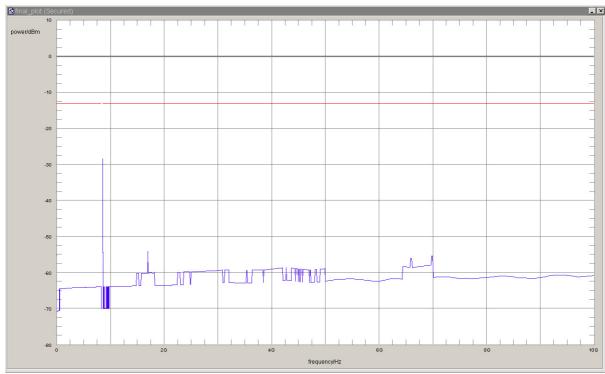
Date of Test: 2011/08/19 22:32

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	margin to limit /dB	limit /dBm	verdict
rms	maxhold	50	849.05	-28.3	15.3	-13.0	passed
rms	maxhold	100	850.18	-30.6	17.6	-13.0	passed

no further values have been found with a margin of less than 20 dB



acc. Title 47 CFR chapter I part 22 subpart H

3.5.4 22.4 Field strength of spurious radiation §2.1053, §22.917

Test: 22.4; Frequency Band = 850, Mode = EDGE, Channel = 128, Frequency = 824.2MHz

Result: Passed

Setup No.: B01_rad

Date of Test: 2011/08/17 7:13

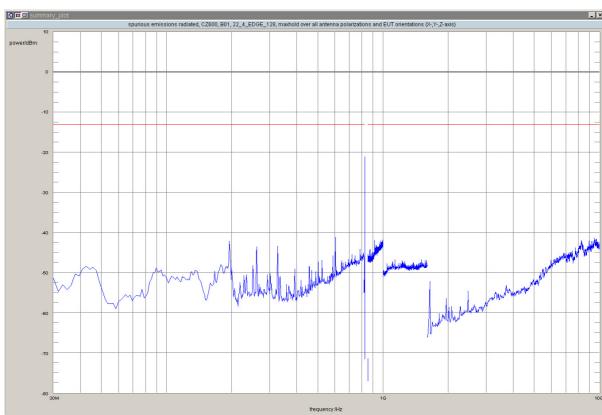
Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES

Test Specification: FCC part 2 and 22

Detailed Results:

detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	limit /dBm	margin to limit /dB	azimuth /°	antenna polarization	EUT orientation	verdict
peak	maxhold	3	823.9279	-31.32	-13.00	18.32	-180.0	vertical	horizontal	passed
peak	maxhold	3	823.9459	-26.59	-13.00	13.59	90.0	vertical	vertical	passed
peak	maxhold	3	823.9519	-24.47	-13.00	11.47	-180.0	vertical	horizontal	passed
peak	maxhold	3	823.9599	-31.89	-13.00	18.89	-90.0	vertical	vertical	passed
peak	maxhold	3	823.9739	-21.12	-13.00	8.12	-180.0	vertical	horizontal	passed
peak	maxhold	3	823.9800	-27.46	-13.00	14.46	0.0	vertical	horizontal	passed
peak	maxhold	3	823.9880	-25.23	-13.00	12.23	-180.0	vertical	horizontal	passed
peak	maxhold	3	823.9940	-23.56	-13.00	10.56	-180.0	vertical	horizontal	passed
peak	maxhold	3	824.0000	-27.98	-13.00	14.98	90.0	vertical	vertical	passed

no further values have been found with a margin of less than 20 dB





Reference: MDE CINTE 1107 FCCb

acc. Title 47 CFR chapter I part 22 subpart H

Test: 22.4; Frequency Band = 850, Mode = EDGE, Channel = 190, Frequency = 836.6MHz

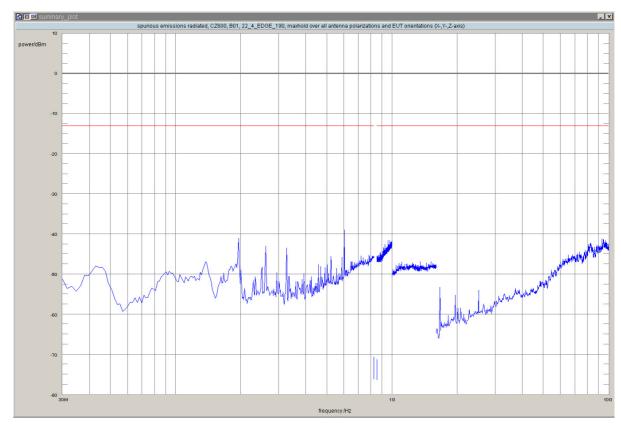
Result: Passed
Setup No.: B01_rad

Date of Test: 2011/08/17 6:12

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES

Test Specification: FCC part 2 and 22

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	limit /dBm	margin to limit /dB	azimuth /°	antenna polarization	EUT orientation	verdict
peak	maxhold	1000	602.1	-38.98	-13.00	25.98	-90.0	vertical	vertical	passed

no further values have been found with a margin of less than 20 dB

Test: 22.4; Frequency Band = 850, Mode = EDGE, Channel = 251, Frequency = 848.8MHz

Result: Passed
Setup No.: B01_rad

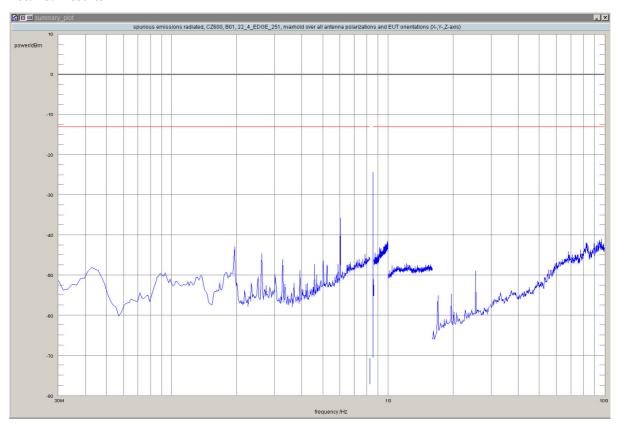
Date of Test: 2011/08/17 8:13

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES



acc. Title 47 CFR chapter I part 22 subpart H

Detailed Results:



detector	trace	resolution bandwidth /kHz	frequency /MHz	peak value /dBm	limit /dBm	margin to limit /dB	azimuth /°	antenna polarization	EUT orientation	verdict
peak	maxhold	3	849.0020	-25.41	-13.00	12.41	0.0	vertical	horizontal	passed
peak	maxhold	3	849.0060	-26.91	-13.00	13.91	90.0	horizontal	vertical	passed
peak	maxhold	3	849.0120	-24.83	-13.00	11.83	-180.0	vertical	horizontal	passed
peak	maxhold	3	849.0160	-26.01	-13.00	13.01	90.0	vertical	vertical	passed
peak	maxhold	3	849.0261	-26.42	-13.00	13.42	-90.0	horizontal	vertical	passed
peak	maxhold	3	849.0301	-29.00	-13.00	16.00	-90.0	vertical	vertical	passed
peak	maxhold	3	849.0341	-24.30	-13.00	11.30	-180.0	vertical	horizontal	passed
peak	maxhold	3	849.0381	-26.05	-13.00	13.05	90.0	vertical	vertical	passed
peak	maxhold	3	849.0481	-29.19	-13.00	16.19	90.0	vertical	vertical	passed
peak	maxhold	3	849.0541	-30.79	-13.00	17.79	-180.0	vertical	horizontal	passed
peak	maxhold	3	849.0601	-31.95	-13.00	18.95	90.0	vertical	vertical	passed
peak	maxhold	3	849.0661	-32.74	-13.00	19.74	0.0	vertical	horizontal	passed

no further values have been found with a margin of less than 20 dB

Test: 22.4; Frequency Band = 850, Mode = GSM, Channel = 128, Frequency = 824.2MHz

Result: Passed
Setup No.: B01_rad

Date of Test: 2011/08/17 1:14

Body: FCC47CFRChIPART22PUBLIC MOBILE SERVICES