
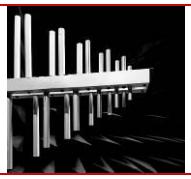
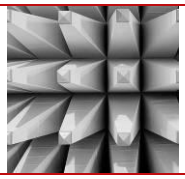

CETECOM™
CETECOM ICT Services
consulting - testing - certification

TEST REPORT

Test report no.: 1-5579/12-01-11-D

ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-12076-01-01

Testing laboratory

CETECOM ICT Services GmbH
Untertuerkheimer Strasse 6 – 10
66117 Saarbruecken / Germany
Phone: + 49 681 5 98 - 0
Fax: + 49 681 5 98 - 9075
Internet: http://www.cetecom.com
e-mail: ict@cetecom.com

Accredited Testing Laboratory:
The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2005) by the Deutsche Akkreditierungsstelle GmbH (DAkkS)
The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with the registration number: D-PL-12076-01-01
Area of Testing: Radio/Satellite Communications

Applicant

Research In Motion Limited
305 Phillip Street
Waterloo, ON N2L 3W8 / CANADA
Phone: +1 51 98 88 74 65
Fax: +1 51 98 88 69 06
Contact: Masud Attayi
e-mail: mattayi@rim.com
Phone: +1 51 98 88 74 65

Manufacturer

Research In Motion Limited
305 Phillip Street
Waterloo, ON N2L 3W8 / CANADA

Test standard/s

47 CFR Part 15	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices
RSS - 210 Issue 8	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item:	**Blackberry GSM Phones**
Model name:	**RFN81UW**
FCC ID:	**L6ARFN80UW**
IC:	**2503A-RFN80UW**
Frequency:	13.56 MHz
Technology tested:	NFC
Antenna:	Integrated loop antenna
Power Supply:	3.8 V DC by Li - Ion battery
Temperature Range:	No extreme conditions needed!

This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test report authorised:

p.o.
cn=Andreas Luckenbill, o=CETECOM ICT Services GmbH, ou=LUC-111202, email=andreas.luckenbill@cetecom.com, c=DE
2013.03.14 15:09:11 +01'00'

Stefan Bös
Senior Testing Manager

Test performed:

cn=Marco Bertolino, o=CETECOM ICT Services GmbH, ou=BTL-100826, email=marco.bertolino@cetecom.com, c=DE
2013.03.14 15:07:13 +01'00'

Marco Bertolino
Testing Manager

1 Table of contents

2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.
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In no case this test report can be considered as a Letter of Approval.

This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

2.2 Application details

Date of receipt of order:	2012-11-30
Date of receipt of test item:	2012-12-01
Start of test:	2012-12-01
End of test:	2013-03-14
Person(s) present during the test:	-/-

3 Test standard/s

Test standard	Date	Test standard description
47 CFR Part 15	2010-10	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices
RSS - 210 Issue 8	2010-12	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

4 Test environment

Temperature:	T_{nom}	+22	°C during room temperature tests
	T_{max}	-/-	°C during high temperature tests
	T_{min}	-/-	°C during low temperature tests
Relative humidity content:		43 %	
Barometric pressure:		not relevant for this kind of testing	
Power supply:	V_{nom}	3.8 V	DC by Li - Ion battery
	V_{max}	-/- V	
	V_{min}	-/- V	

5 Test item

Kind of test item	**:**	**Blackberry GSM Phones**
Type identification	**:**	**RFN81UW**
S/N serial number	**:**	**Radiated unit: IMEI 004401139252122**
HW hardware status	**:**	**CER-53015-001-Rev 2-905-01**
SW software status	**:**	**127.0.1.3123**
Frequency band [MHz]	**:**	**13.56**
Type of radio transmission **Use of frequency spectrum**	**:** **:**	**Modulated carrier**
Number of channels	**:**	**1**
Antenna	**:**	**Integrated loop antenna**
Power supply	**:**	**3.8 V DC by Li - Ion battery**
Temperature range	**:**	**Not needed – normal test conditions only!**

5.1 Additional information

Test setup- and EUT-photos are included in test reports: 1-5579/12-01-01_AnnexE
1-5579/12-01-01_AnnexA

6 Test laboratories sub-contracted

None

7 Summary of measurement results

☒ **No deviations from the technical specifications were ascertained**

☐ There were deviations from the technical specifications ascertained

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	CFR Part 15 RSS 210	Passed	2013-03-14	Reduced tests according to manufacturer test plan!

Test Specification Clause	Test Case	Power Source Voltages	Pass	Fail	NA	NP	Remark
§ 15.35 (c)/ RSS-GEN	Timing of the transmitter (Duty cycle correction factor)	Nominal	☐	☐	☐	☒	-/-
§ 15.225 (a)/ RSS-210	Fieldstrength of Fundamental	Nominal	☒	☐	☐	☐	-/-
§ 15.209/ RSS-210	Fieldstrength of harmonics and spurious	Nominal	☒	☐	☐	☐	-/-
§ 15.225 (e)/ RSS-210	Frequency tolerance	Extreme	☐	☐	☐	☒	-/-
		Nominal	☐	☐	☐	☒	
§15.107(a)	Conducted emissions < 30 MHz	Nominal	☒	☐	☐	☐	complies

Note: NA = Not Applicable; NP = Not Performed

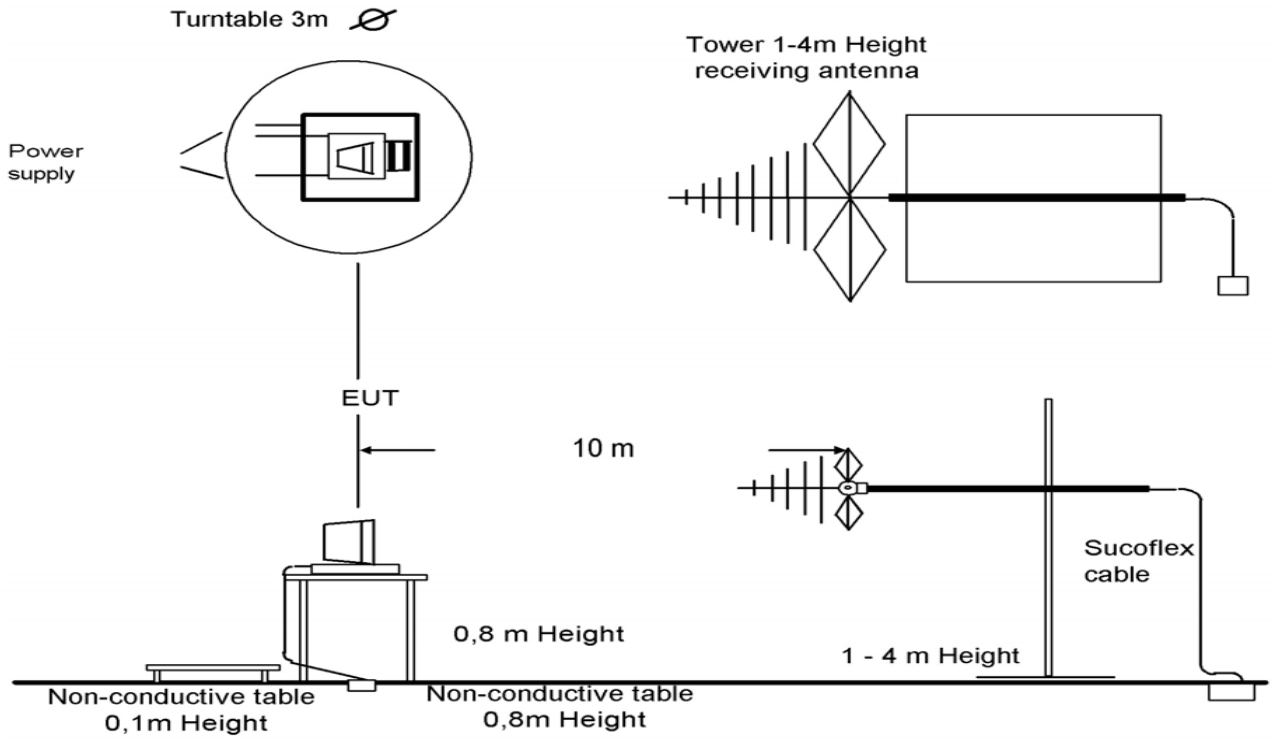
8 RF measurements

8.1 Description of test setup

8.1.1 Radiated measurements

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 25 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas are confirmed with specifications ANSI C63.2-1996 clause 15 and ANSI C63.4-2009 clause 4.1.5. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by spectrum analysers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63-4-2009 clause 4.2.
Antennas are confirmed with ANSI C63.2-1996 item 15.

Semi anechoic chamber



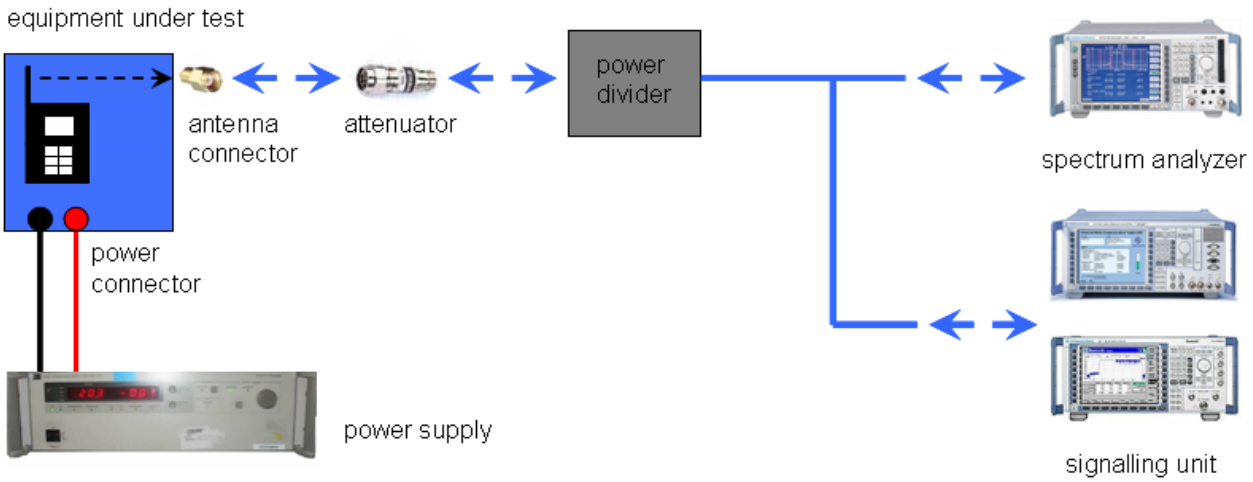
Picture 1: Diagram radiated measurements

9 kHz - 30 MHz:	active loop antenna
30 MHz – 1 GHz:	tri-log antenna
> 1 GHz:	horn antenna

The EUT is powered by an external power supply with nominal voltage. The signalling is performed from outside the chamber with a signalling unit (CMU200 or other) by air link using signalling antenna.

8.1.2 Conducted measurements

The EUT's RF signal is coupled out by the antenna connector which is supplied by the manufacturer. The signal is first 10dB attenuated before it is power divided (~6dB loss per branch). One of the signal paths is connected to the communication base Station (CMU200 or other), the other one is connected to the spectrum analyzer. The specific losses for both signal paths are first checked within a calibration. The measurement readings on the signalling unit/spectrum analyzer are corrected by the specific test set-up loss. The attenuator, power divider, signalling unit and the spectrum analyzer are impedance matched on 50 Ohm.



Picture 2: Diagram conducted measurements

8.2 Additional comments

Reference documents: None

Special test descriptions: None

Configuration descriptions: None

9 Measurement results

9.1 Timing of the transmitter

Not performed!

9.2 Field strength of the fundamental, harmonics and spurious

Measurement:

Measurement parameter	
Detector:	Quasi Peak / Average
Sweep time:	Auto
Resolution bandwidth:	120 kHz
Video bandwidth:	300 kHz
Span:	See plot!
Trace-Mode:	Max hold

Limits:

FCC		IC
Field strength of the harmonics and spurious.		
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	30 (29.5 dBµV/m)	30
30 – 88	100 (40 dBµV/m)	3
88 – 216	150 (43.5 dBµV/m)	3
216 – 960	200 (46 dBµV/m)	3

Result:

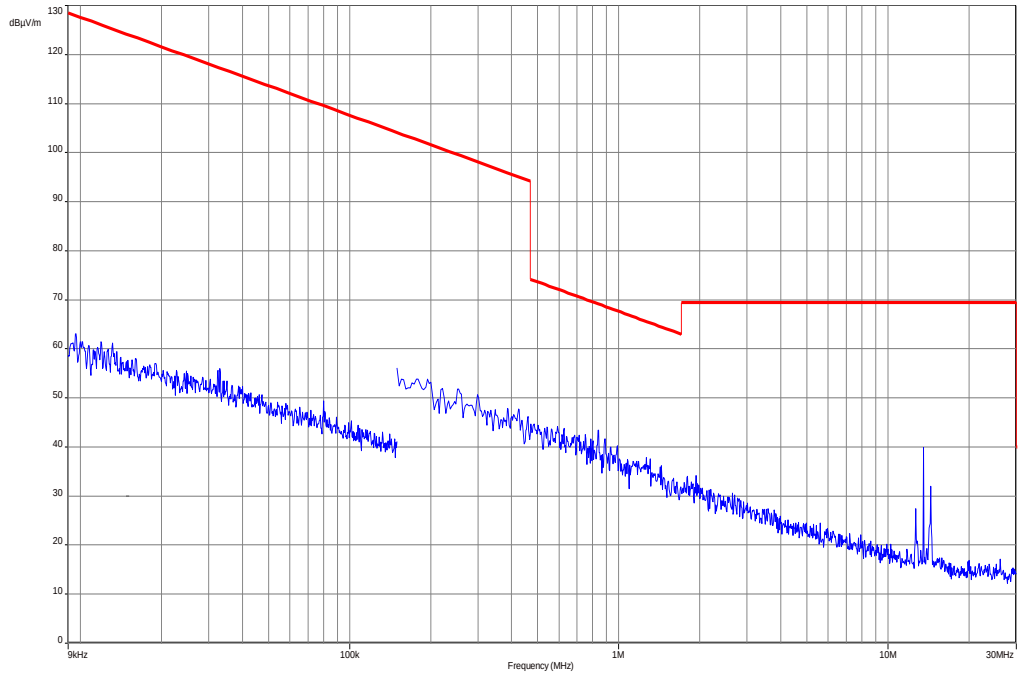
EMISSION LIMITATIONS				
f [MHz]	Detector	Limit max. allowed [dBµV/m]	Amplitude of emission [dBµV/m]	Results
12.7	QP	69.5	27.4 @ 3 m	passed
14.4	QP	69.5	32.0 @ 3 m	passed
13.56	QP	158489 µV/m (104 dBµV/m)	53.5 @ 10 m	passed

Result: passed

Plots of the measurements

Plot 1: 9 kHz – 30 MHz; Part 15.209 Magnetics, Measurement distance 3m

Transmit frequency 13.56 MHz



Plot 2: 30 MHz – 1000 MHz

Transmit frequency 13.56 MHz

Common Information

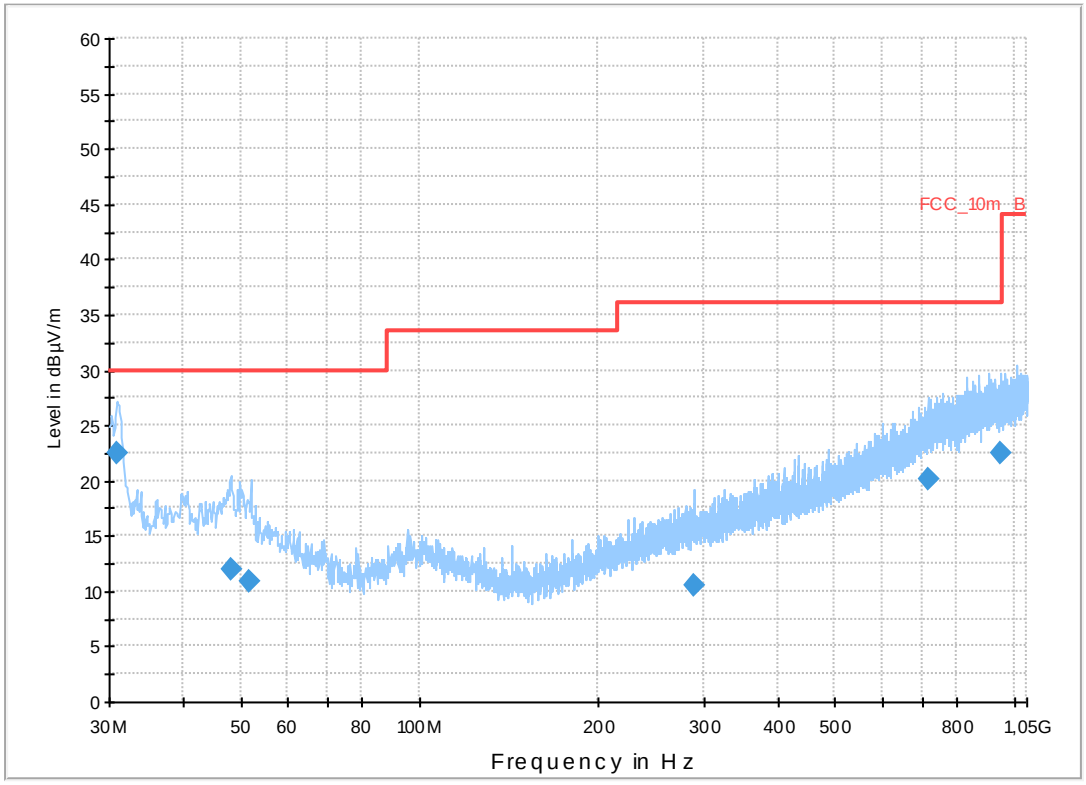
EUT:	RFN81UW
Test Description:	FCC part 15 C class B @ 10m
Operating Conditions:	NFC 13,56MHz back 1 + charging
Operator Name:	Medrow
Comment:	battery powered

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB

FCC_10m(B)_3



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.841050	22.4	1000.0	120.000	105.0	V	-10.0	12.6	7.6	30.0	
48.066150	11.9	1000.0	120.000	98.0	V	280.0	13.3	18.1	30.0	
51.676800	10.8	1000.0	120.000	132.0	V	190.0	13.2	19.2	30.0	
288.329250	10.4	1000.0	120.000	170.0	H	270.0	14.2	25.6	36.0	
715.351950	20.1	1000.0	120.000	170.0	V	0.0	22.9	15.9	36.0	
947.911950	22.4	1000.0	120.000	98.0	H	267.0	25.3	13.6	36.0	

9.3 Frequency tolerance

Not performed!

9.4 AC line conducted

Measurement:

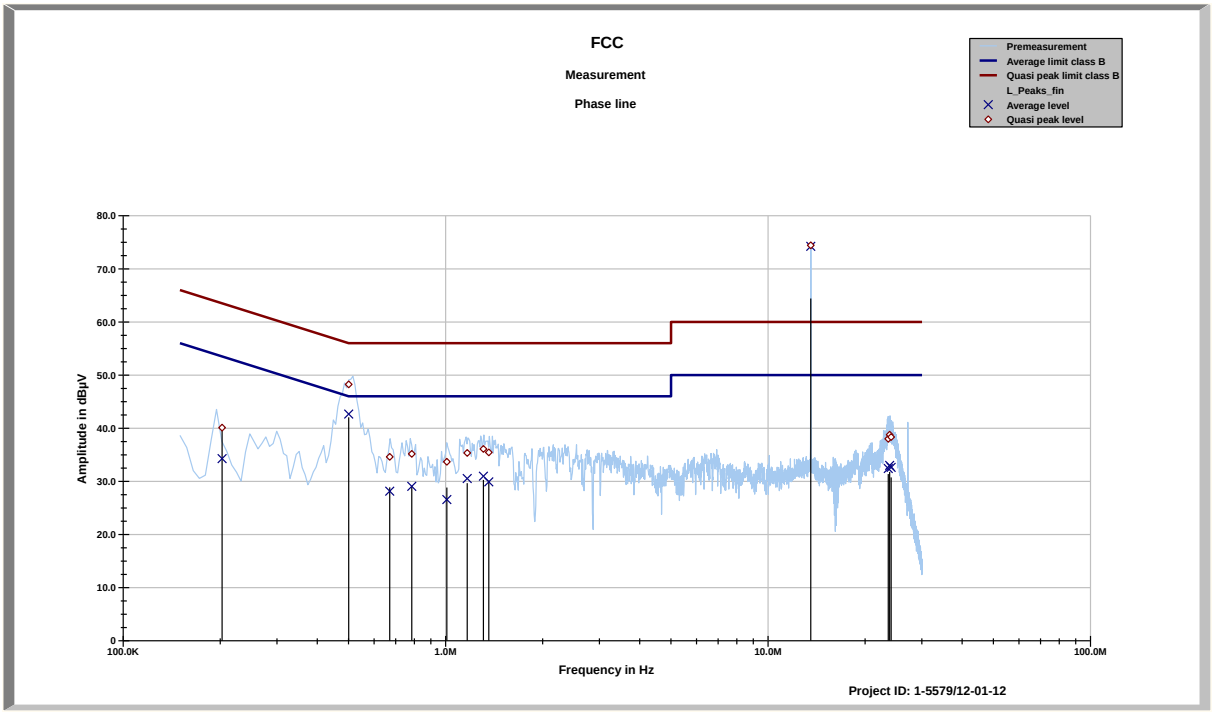
Measurement parameter	
Detector:	Peak - Quasi peak / average
Sweep time:	Auto
Resolution bandwidth:	F < 150 kHz: 200 Hz F > 150 kHz: 9 kHz
Video bandwidth:	F < 150 kHz: 1 kHz F > 150 kHz: 100 kHz
Span:	9 kHz to 30 MHz
Trace-Mode:	Max Hold

Limits:

FCC	IC	
Frequency of Emission (MHz)	**Conducted Limit (dBµV)**	
	Quasi-peak	Average
0.15 – 0.5	66 to 56 *	56 to 46 *
0.5 – 5	56	46
5 - 30	60	50

Result: passed

Plots: Normal cover – NOT RATED



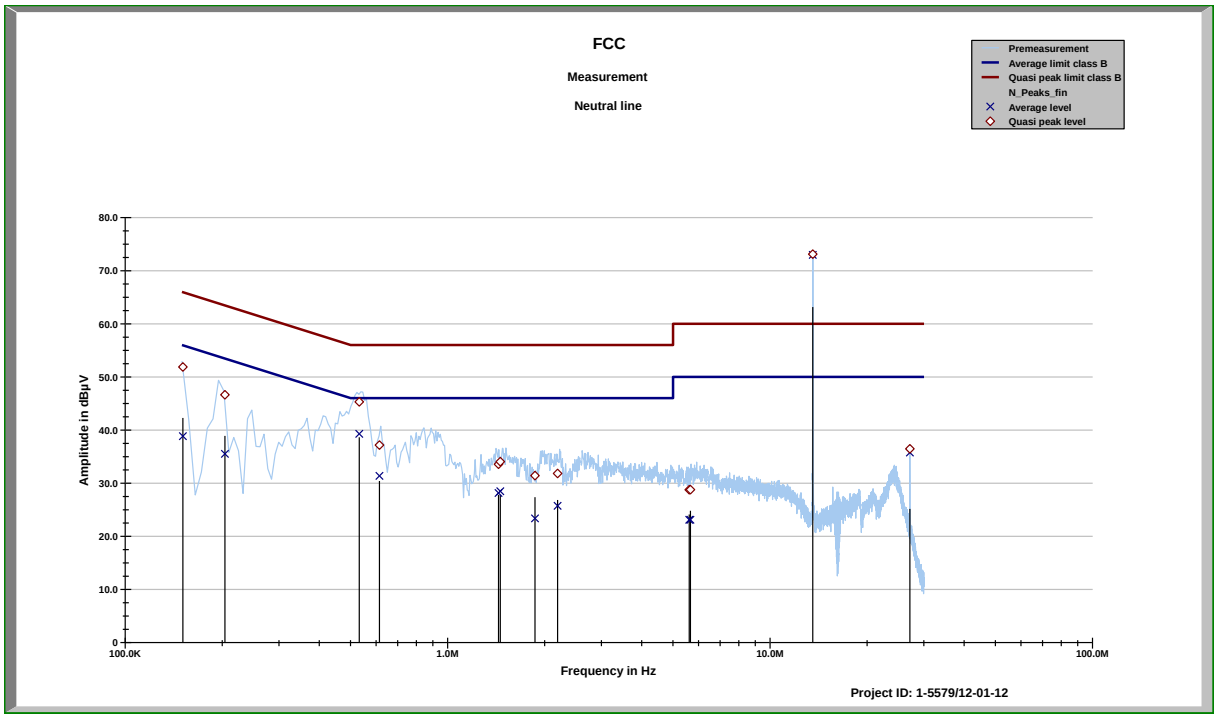
FCC
Phase line tbl

Project ID: 1-5579/12-01-11

11:43:13 AM, Friday, December 21, 2012

Frequency	Quasi peak level	Margin quasi peak	Average level	Margin average
MHz	dBµV	dBµV	dBµV	dBµV
0.20266	40.10	23.40	34.28	20.22
0.5005	48.25	7.75	42.67	3.33
0.67076	34.60	21.40	28.14	17.86
0.7851	35.17	20.83	29.05	16.95
1.00832	33.68	22.32	26.57	19.43
1.16623	35.35	20.65	30.53	15.47
1.309	36.09	19.91	30.96	15.04
1.3606	35.46	20.54	29.90	16.10
13.56	74.42	-14.42	74.23	-24.23
23.571	38.01	21.99	32.42	17.58
23.807	38.78	21.22	33.00	17.00
24.071	38.33	21.67	32.64	17.36

Project ID - 1-5579/12-01-11
EUT - RFN81UW normal cover
Serial Number - IMEI:004401139252122
Operating mode - AC115V/60Hz NFC + charging



FCC
Neutral line tbl

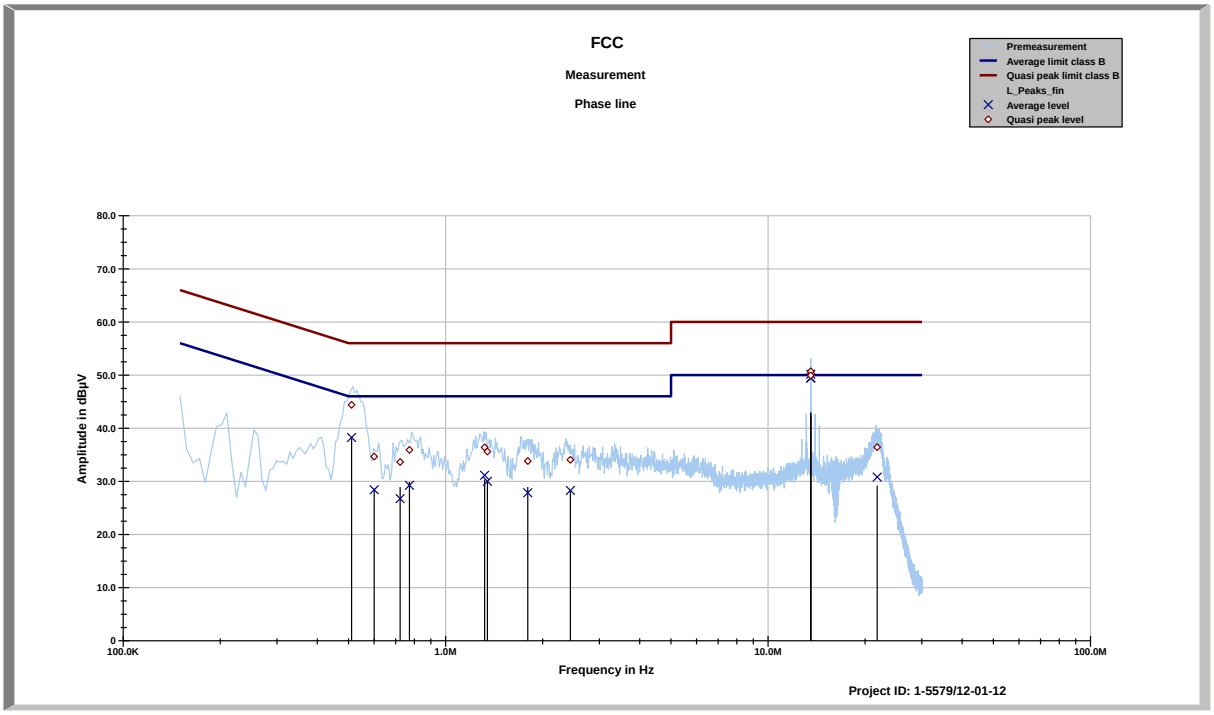
Project ID: 1-5579/12-01-11

11:43:13 AM, Friday, December 21, 2012

Frequency	Quasi peak level	Margin quasi peak	Average level	Margin average
MHz	dBµV	dBµV	dBµV	dBµV
0.15096	51.88	14.07	38.85	17.12
0.20389	46.63	16.82	35.52	18.94
0.53215	45.30	10.70	39.28	6.72
0.61459	37.16	18.84	31.36	14.64
1.4378	33.56	22.44	28.14	17.86
1.4566	34.05	21.95	28.48	17.52
1.8652	31.42	24.58	23.36	22.64
2.1927	31.82	24.18	25.73	20.27
5.6112	28.76	31.24	23.11	26.89
5.6616	28.78	31.22	23.11	26.89
13.56	73.12	-13.12	72.97	-22.97
27.117	36.47	23.53	35.76	14.24

Project ID - 1-5579/12-01-11
EUT - RFN81UW normal cover
Serial Number - IMEI:004401139252122
Operating mode - AC115V/60Hz NFC + charging

Plots: Dummy cover



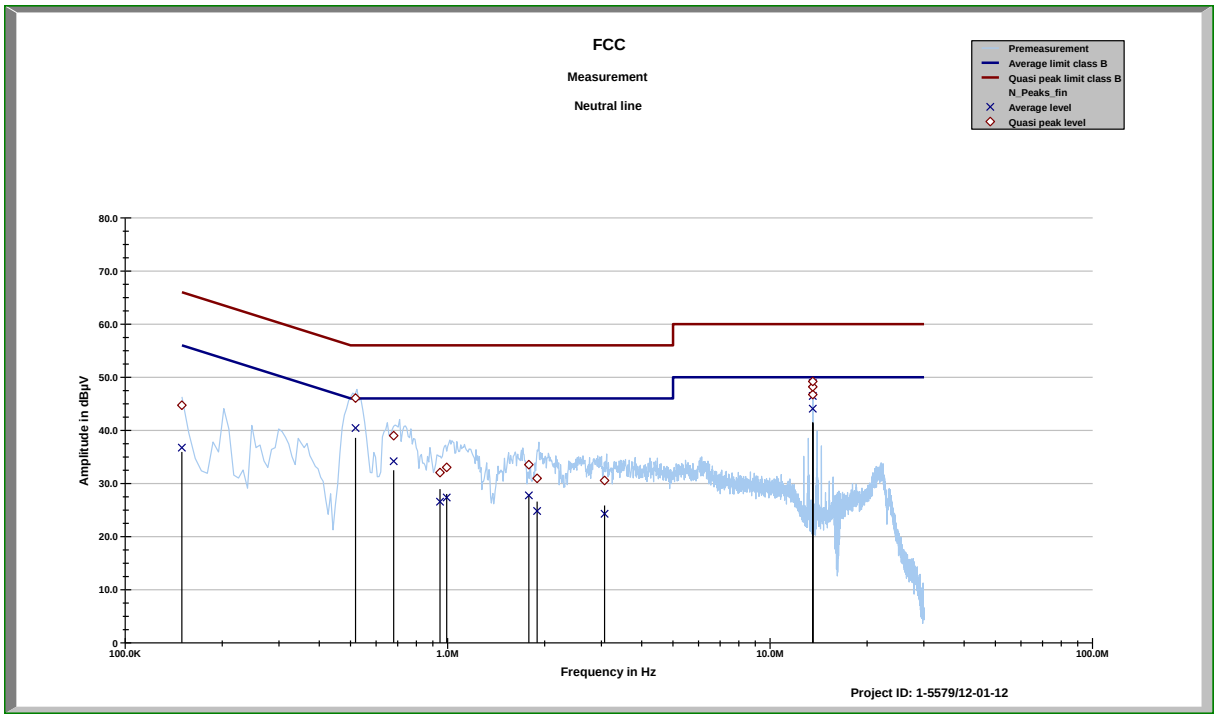
FCC
Phase line tbl

Project ID: 1-5579/12-01-12

03:08:07 PM, Friday, January 25, 2013

Frequency	Quasi peak level	Margin quasi peak	Average level	Margin average
MHz	dBµV	dBµV	dBµV	dBµV
0.51083	44.39	11.61	38.26	7.74
0.60042	34.67	21.33	28.41	17.59
0.72273	33.65	22.35	26.75	19.25
0.7724	35.91	20.09	29.26	16.74
1.321	36.40	19.60	31.14	14.86
1.3469	35.61	20.39	30.00	16.00
1.797	33.83	22.17	27.84	18.16
2.4364	34.04	21.96	28.29	17.71
13.557	50.65	9.35	49.48	0.52
13.56	50.69	9.31	49.55	0.45
13.561	49.93	10.07	49.41	0.59
21.779	36.42	23.58	30.80	19.20

Project ID - 1-5579/12-01-12
EUT - RFN81UW Demiload cover
Serial Number - IMEI:004401139252122
Operating mode - AC115V/60Hz cont. NFC + charging



FCC
Neutral line tbl

Project ID: 1-5579/12-01-12

03:08:07 PM, Friday, January 25, 2013

Frequency	Quasi peak level	Margin quasi peak	Average level	Margin average
MHz	dBµV	dBµV	dBµV	dBµV
0.14988	44.73	NAN	36.74	NAN
0.51793	46.07	9.93	40.44	5.56
0.68032	39.00	17.00	34.19	11.81
0.9472	32.05	23.95	26.57	19.43
0.99345	33.03	22.97	27.35	18.65
1.786	33.55	22.45	27.75	18.25
1.8948	30.97	25.03	24.81	21.19
3.0666	30.56	25.44	24.29	21.71
13.555	46.74	13.26	44.07	5.93
13.556	48.20	11.80	46.49	3.51
13.56	49.22	10.78	48.91	1.09

Project ID - 1-5579/12-01-12
EUT - RFN81UW Demiload cover
Serial Number - IMEI:004401139252122
Operating mode - AC115V/60Hz cont. NFC + charging

10 Test equipment and ancillaries used for tests

Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, rf-generating and signalling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Labor/Item).

No.	Lab / Item	Equipment	Type	Manufact.	Serial No.	INV. No Cetecom	Kind of Calibration	Last Calibration	Next Calibration
11	45	Switch-Unit	3488A	HP Meßtechnik	2719A14505	300000368	g		
2	50	DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2920A04466	300000580	ne		
3	n. a.	software	SPS_PHE 1.4f	Spitzberger & Spieß	B5981; 5D1081;B5979	300000210	ne		
4	n. a.	EMI Test Receiver	ESCI 1166.5950.03	R&S	100083	300003312	k		
5	n. a.	Analyzer-Reference-System (Harmonics and Flicker)	ARS 16/1	SPS	A3509 07/0 0205	300003314	k	14.07.2011	14.07.2013
6	n. a.	Amplifier	JS42-00502650-28-5A	MITEQ	1084532	300003379	ev		
7	n. a.	Antenna Tower	Model 2175	ETS-LINDGREN	64762	300003745	izw		
8	n. a.	Positioning Controller	Model 2090	ETS-LINDGREN	64672	300003746	izw		
9	n. a.	Turntable Interface-Box	Model 105637	ETS-LINDGREN	44583	300003747	izw		
10	n. a.	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	295	300003787	k	12.04.2012	12.04.2014
11	n. a.	Spectrum-Analyzer	FSU26	R&S	200809	300003874	k	06.01.2012	06.01.2014
12	n. a.	Active Loop Antenna	6502	EMCO	2210	300001015	ne		
13	n. a.	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev		
14	n. a.	MXE EMI Receiver 20 Hz bis 26,5 GHz	N9038A	Agilent Technologies	MY51210197	300004405	k		
15	n. a.	Netznachbildung	ESH3-Z5	R&S	892475/017	300002209	k	05.01.2012	05.01.2014
16	n. a.	Burst,Surges,ESD-System	UCS 500 M6	EM-Test	0399-07	300002599	k		
17	n. a.	Wechselspannungsquelle	MV2616	EM-Test	0600-01	300002658	k		
18	n. a.	decopling network	FCC-801-M1-16A		2027	300002761	izw	24.10.2012	24.04.2013
19	n. a.	Netznachbildung für 4 adrige Teleco-Leitungen	ISN T4C	Schaffner / Dudenhoeffer	22325	300003423	k	06.09.2012	06.09.2014
20	n. a.	Attenuator 6 dB	50HP6-100N	Alan	121048-0348	300003148	ev		
21	n. a.	Coupling De-coupling Network	CDN-UTP		014	300003226	k		

Agenda: Kind of Calibration

k	calibration / calibrated	EK	limited calibration
ne	not required (k, ev, izw, zw not required)	zw	cyclical maintenance (external cyclical maintenance)
ev	periodic self verification	izw	internal cyclical maintenance
Ve	long-term stability recognized	g	blocked for accredited testing
vlkl!	Attention: extended calibration interval		
NK!	Attention: not calibrated	*)	next calibration ordered / currently in progress

11 Observations

No observations exceeding those reported with the single test cases have been made.

Annex A Document history

Version	Applied changes	Date of release
1.0	Initial release	2013-01-07
-A	Addition of HW / SW status and FCC / IC number	2013-03-01
-B	Editorial changes	2013-03-08
-C	Editorial changes	2013-03-12
-D	Added fundamental field strength	2013-03-14

Annex B Further information

Glossary

AVG - Average
DUT - Device under test
EMC - Electromagnetic Compatibility
EN - European Standard
EUT - Equipment under test
ETSI - European Telecommunications Standard Institute
FCC - Federal Communication Commission
FCC ID - Company Identifier at FCC
HW - Hardware
IC - Industry Canada
Inv. No. - Inventory number
N/A - Not applicable
PP - Positive peak
QP - Quasi peak
S/N - Serial number
SW - Software

Annex C Accreditation Certificate

DAkkS Deutsche Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH
German Accreditation Body

Entrusted according to Section 8 subsection1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV
Signatory to the Multilateral Agreements of
EA, ILAC and IAF for Mutual Recognition

Accreditation

The Deutsche Akkreditierungsstelle GmbH (German Accreditation Body) attests that the testing laboratory

CETECOM ICT Services GmbH
Untertürkheimer Straße 6-10
66117 Saarbrücken

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out tests in the following fields:

Wired communications and DECT
Acoustic
Radio
Shirt Range Devices (SRD)
RFID
WiMax and Richtfunk
Mobile radio (GSM / DCS), Over the Air (OTA) Performance
Electromagnetic Compatibility (EMC) incl. Automotive
Product safety
SAR and Hearing Aid Compatibility (HAC)
Environmental simulation
Smart Card Terminals
Bluetooth
Wi-Fi-Services

The accreditation certificate shall only apply in connection with the notice of accreditation of 13.04.2011 with the accreditation number D-PL-12076-01 and is valid until 03.09.2014. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 82 pages.

Registration number of the certificate: **D-PL-12076-01-01**

Frankfurt am Main, 13.04.2011

Dipl.-Ing. (FH) Rolf Egner
Head of Division 2

This document is a translation. The definitive version is the original German accreditation certificate.

See notes overleaf.

Front side of certificate

Deutsche Akkreditierungsstelle GmbH

Office Berlin
Spittelmarkt 10
10117 Berlin

Office Frankfurt am Main
Gartenstraße 6
60594 Frankfurt am Main

Office Braunschweig
Bundesallee 100
38116 Braunschweig

The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkkS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.

No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkkS.

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkkS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:
EA: www.european-accreditation.org
ILAC: www.ilac.org
IAF: www.iaf.nu

Back side of certificate

Note:
The current certificate including annex is published on our website (see link below) or may be received from CETECOM ICT Services on request.

http://www.cetecom.com/fileadmin/de/CETECOM_D_Saarbruecken/accreditations_Jan_2010/DAKKS_Akkredi_Urk_EN17025-En_incl_Annex.pdf