

Nemko Test Report:	1026738RUS2		
Applicant:	Nokia Siemens Networks 6000 Connection Drive Irving, TX 75039 USA		
Equipment Under Test: (E.U.T.)	FXCA		
FCC ID:	VBNFXCA-01		
In Accordance With:	CFR 47, Part 22, Subpar Cellular Base Stations	rt H and R	SS 132, Issue 2
Tested By:	Nemko USA, Inc. 802 N. Kealy Lewisville, TX 75057-313	6	
TESTED BY: David Light, Senio	or Wireless Engineer	DATE:	4-May-2011
D	11. 20		
APPROVED BY:Tom Tidwell, Direct	ctor Nemko Direct for Telecom	DATE:	7-Jul-2011

Number of Pages: 49

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2 CELLULAR BASE STATIONS PROJECT NO.: 1026738RUS2

EQUIPMENT: FXCA

Table of Contents

Section 1.	Summary of Test Results	3
Section 2.	General Equipment Specification	5
Section 3.	RF Power Output	<i>6</i>
Section 4.	Occupied Bandwidth	8
Section 5.	Spurious Emissions at Antenna Terminals	13
Section 6.	Field Strength of Spurious	34
Section 7.	Frequency Stability	35
Section 7.	Receiver Spurious Emissions	37
Section 8.	Test Equipment List	39
ANNEX A	- TEST DETAILS	40
ANNEX B	- TEST DIAGRAMS	46

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2 CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

Section 1.	Summary of	Test Results

Manufacturer: Nokia Siemens Networks

Model No.: FXCA

Serial No.: L9111300673

General: All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 22, Subpart H and RSS 132, Issue 2.

\boxtimes	New Submission	Production Unit
	Class II Permissive Change	Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See "Summary of Test Data".



Nemko USA, Inc. authorizes the above named company to reproduce this report provided it is reproduced in its entirety, for use by the company's employees only.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Nemko USA, Inc. is a NVLAP accredited laboratory.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Nemko USA, Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. This report applies only to the items tested.

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

Summary Of Test Data

NAME OF TEST	PART 22 PARA.	RSS 312 PARA.	SPEC.	RESULT
	NO.	NO.	101011	
RF Power Output	22.913(a)	4.4	1640 W	Complies
Occupied Bandwidth	22.917	4.5.1	Not defined	Complies
Spurious Emissions at Antenna Terminals	22.917	4.5.1	-13 dBm	Complies
Field Strength of Spurious Emissions	22.917	-	-13 dBm E.R.P.	Complies
Frequency Stability	22.355	4.3	1.5 ppm	Complies
Receiver Spurious Emissions	-	RSS-Gen Issue 3	Para. 6.1 Table 1	Complies

Footnotes: None

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2 CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

Section 2. General Equipment Specification

Supply Voltage Input:	-48 Vdc nomi	nal		
Frequency Band:	869 to 894 MI	Hz		
Type of Modulation and Designator:	GSM 300KGXW	EDGE 300KG7W	QPSK 5M00D7W	16QAM 5M00D7W
Maximum No. of Carriers:	6			
Output Impedance:	50 ohms			
RF Output (Rated):	60 W +47.8 dBm	•	er is lowered t d last channel	
Band Selection:	Software	e Du	plexer	Fullband

System Description

The FXCA is a 850 MHz multistandard multicarrier radio module that consists of three individual transceivers designed to support GSM/EDGE, WCDMA and LTE in dedicated or concurrent mode. Each module supports upto six GSM/EDGE carriers in GSM/EDGE dedicated mode, upto four WCDMA carriers in WCDMA dedicated mode and upto four 5 MHz LTE carriers in LTE dedicated mode with one radio branch. In concurrent mode, a combination of all three radio technologies is supported with a single radio branch. Each module is capable to serve three radio branches with multiradio multicarrier radios of upto 60 Watts output power per branch. The LTE modulation and concurrent mode operation were not tested under this effort.

The transmitter test setup for GSM/EDGE dedicated mode provided GMSK and 8PSK modulation types for both single and multicarrier operation. The transmitter WCDMA dedicated mode provided QPSK and 16QAM modulation types for both single and multicarrier operation.

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2 CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

Section 3. RF Power Output

NAME OF TEST: RF Power Output

PARA. NO.: 2.1046
RSS 132 PARA. 4.4
TESTED BY: David Light

DATE: 21 April 2011

Test Results: Complies.

Measurement Data: Refer to table on next page.

Equipment Used: 2071-2072-1082-1054-1064-1065

Measurement Uncertainty: +/- 1.7 dB

Temperature: 22 °C

Relative Humidity: 35 %

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

Test Data – RF Power Output

Modulation	Frequency	Measured Pow	•	Deviation from rated	
Туре	(MHz)	(dBm) (W)		(dB)	
GMSK	869.2	32.5	1.8	-0.5	
GMSK	869.4	47.9	61.7	0.1	
GMSK	881.6	48.6	72.4	0.8	
GMSK	893.6	48.3	67.6	0.5	
GMSK	893.8	32.3	1.7	-0.7	
8PSK	869.2	34.5	2.8	1.5	
8PSK	869.4	48	63.1	0.2	
8PSK	881.6	48.6	72.4	0.8	
8PSK	893.6	48.3	67.6	0.5	
8PSK	893.8	34.3	2.7	1.3	
QPSK	871.4	33.9	2.5	0.9	
QPSK	871.6	48.4	69.2	0.6	
QPSK	881.6	48.6	72.4	0.8	
QPSK	891.4	48.3	67.6	0.5	
QPSK	891.6	33.9	2.5	0.9	
16QAM	871.4	33.7	2.3	0.7	
16QAM	871.6	48.3	67.6	0.5	
16QAM	881.6	48.5	70.8	0.7	
16QAM	891.4	48.3	67.6	0.5	
16QAM	891.6	33.8	2.4	0.8	

Note: The power needs to be lowered at the lowest and highest frequencies per above to ensure compliance at the band edges.

The FXCA is compliant at the other frequencies operating at full power.

Supply voltage was varied +/- 15%. No fluctuation in output power resulted.

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2
CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth PARA. NO.: 2.1049

RSS 132 PARA. 4.5.1
TESTED BY: David Light DATE: 21 April 2011

Test Results: Complies.

Test Data: See attached plot(s).

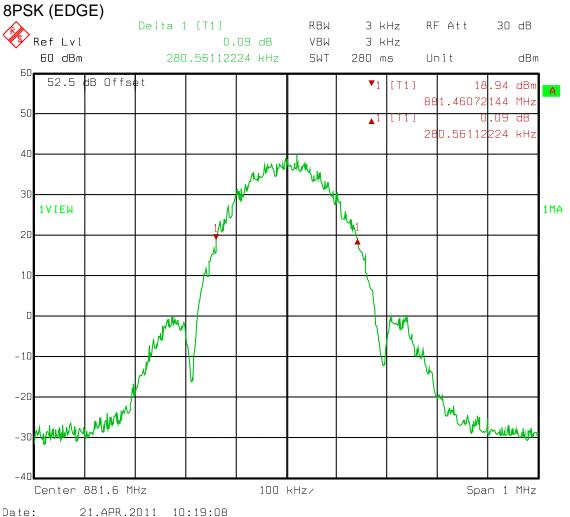
Equipment Used: 1767-1054-1082-1065-1064

Measurement Uncertainty: +/- 1.6 dB

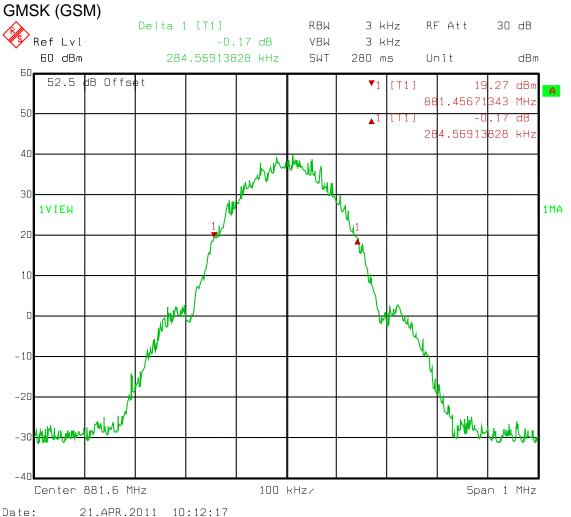
Temperature: 22 °C

Relative Humidity: 35 %

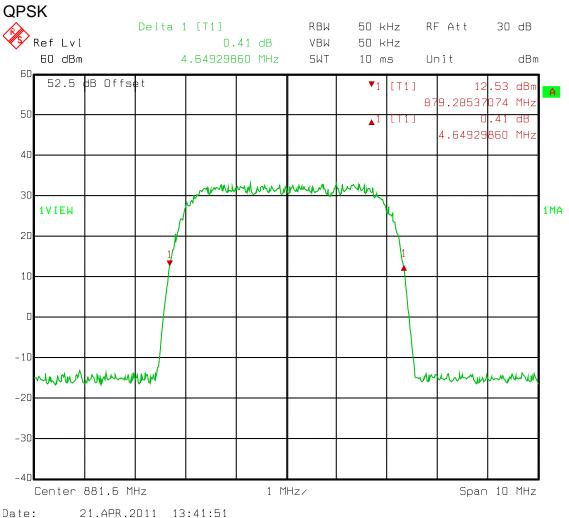
Test Data - Occupied Bandwidth



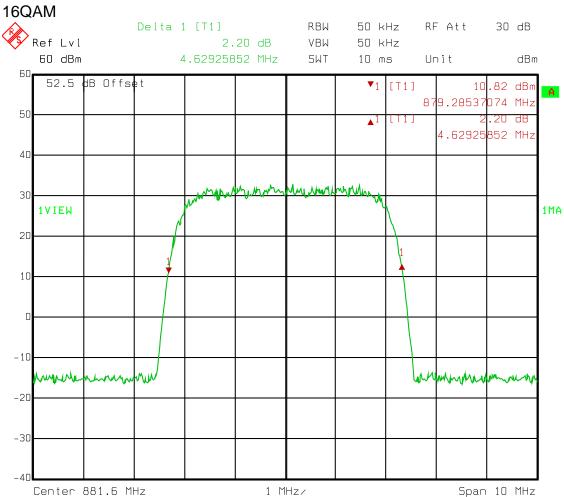
Test Data – Occupied Bandwidth



Test Data – Occupied Bandwidth



Test Data – Occupied Bandwidth



Date: 21.APR.2011 13:50:44

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2
CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna PARA. NO.: 2.1051

Terminals RSS 132 PARA 4.5.1

TESTED BY: David Light DATE: 21 April 2011

Test Results: Complies.

Test Data: Refer to plots below

Equipment Used: 1767-1082-1064-1065-1054-1054-1058

Measurement Uncertainty: +/- 1.7 dB

Temperature: 22 °C

Relative Humidity: 35 %

Test Data – Spurious Emissions

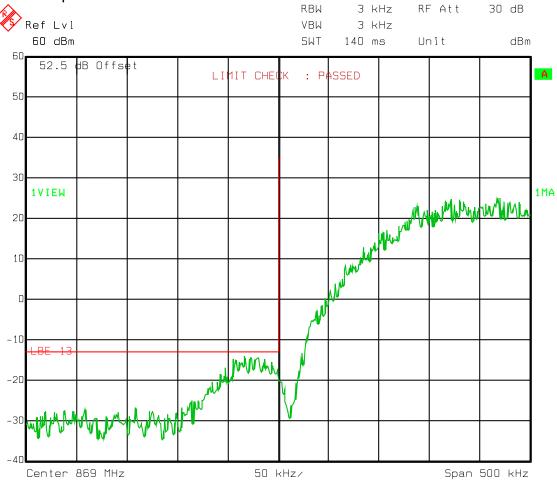
Low Band Edge 8PSK (EDGE)

Transmit Frequency: 869.2 MHz

21.APR.2011 12:49:56

Date:

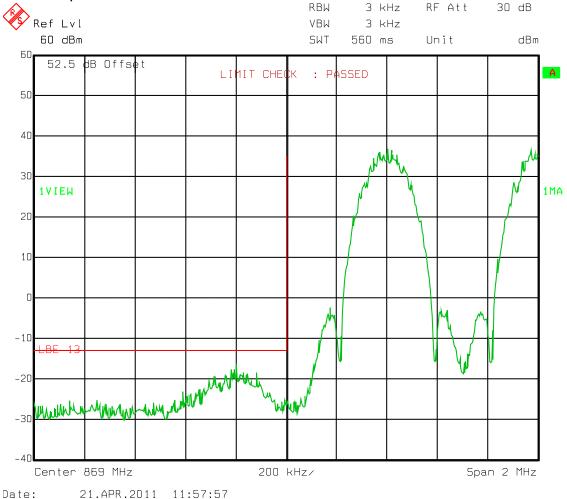
Transmit power reduced



Test Data – Spurious Emissions

Low Band Edge Intermodulation 8PSK (EDGE)

Transmit power maximum



Test Data – Spurious Emissions

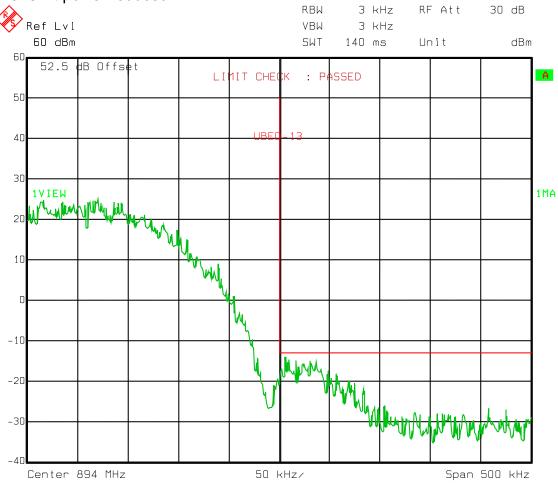
Upper Band Edge 8PSK (EDGE)

Transmit Frequency: 893.8 MHz

21.APR.2011 12:53:56

Date:

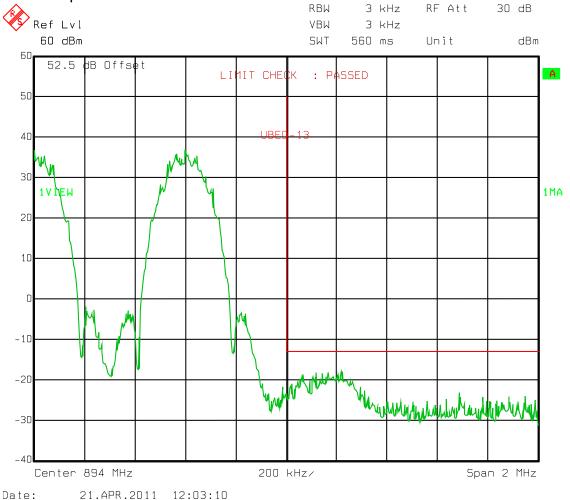
Transmit power reduced



Test Data – Spurious Emissions

Upper Band Edge Intermodulation 8PSK (EDGE)

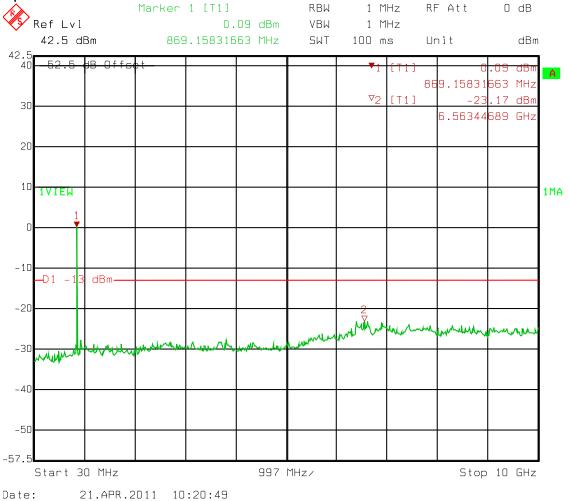
Transmit power maximum



Test Data – Spurious Emissions

8PSK (EDGE)

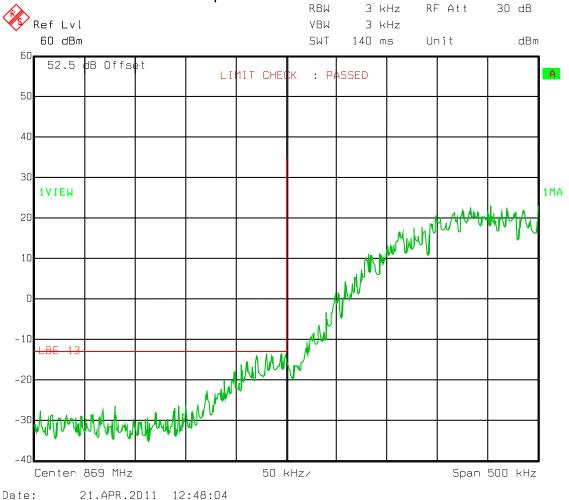
Spurs



Test Data – Spurious Emissions

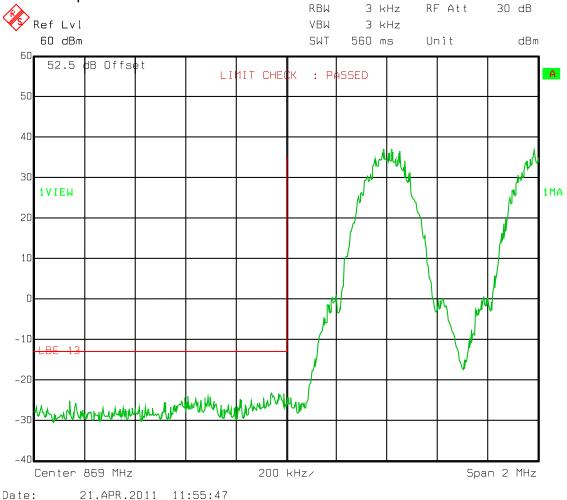
GMSK (GSM) Lower Edge

Transmit 869.2 MHz reduced power



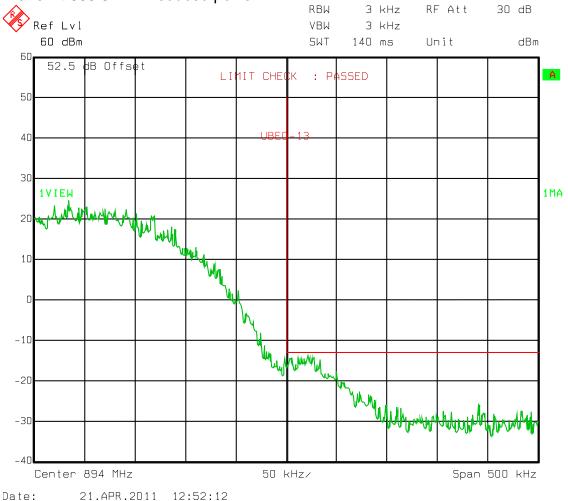
Test Data – Spurious Emissions

GMSK (GSM) Lower band edge Intermodulation Maximum power



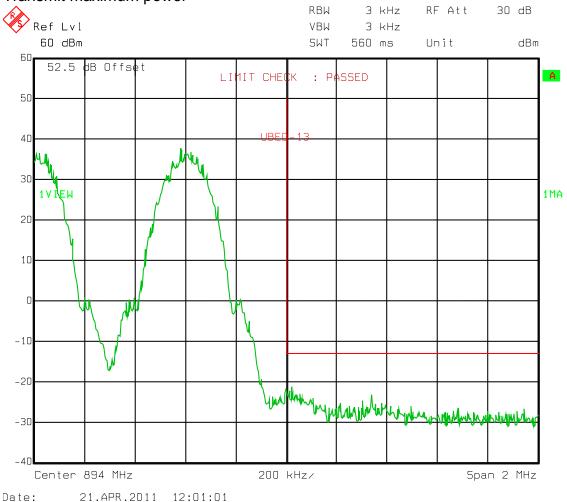
Test Data - Spurious Emissions

GMSK (GSM) Upper band edge Transmit 893.8 MHz reduced power



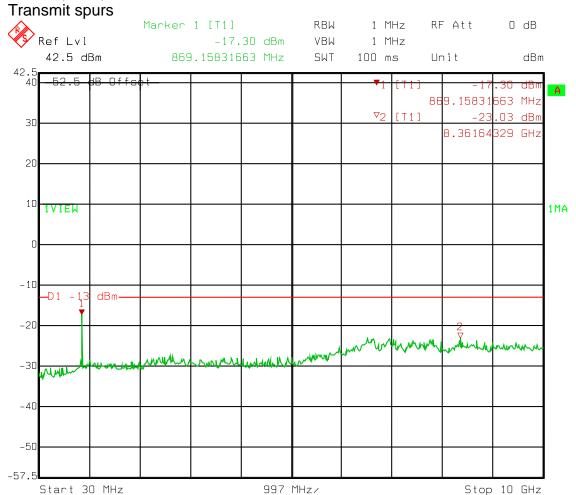
Test Data - Spurious Emissions

GMSK (GSM) Upper band edge intermodulation Transmit maximum power



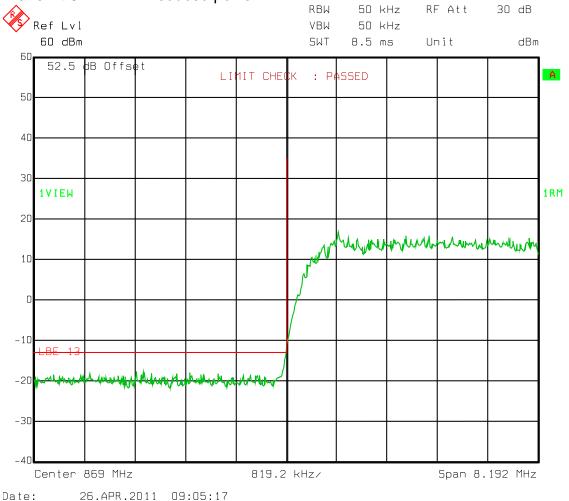
Test Data – Spurious Emissions

GMSK (GSM)



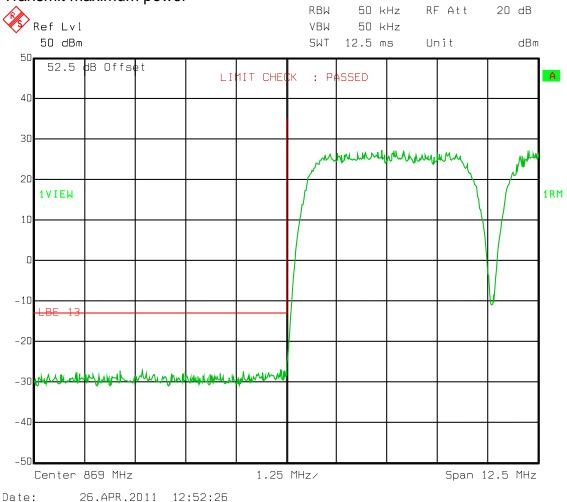
Test Data – Spurious Emissions

QPSK (WCDMA) Lower band edge Transmit 871.4 MHz reduced power



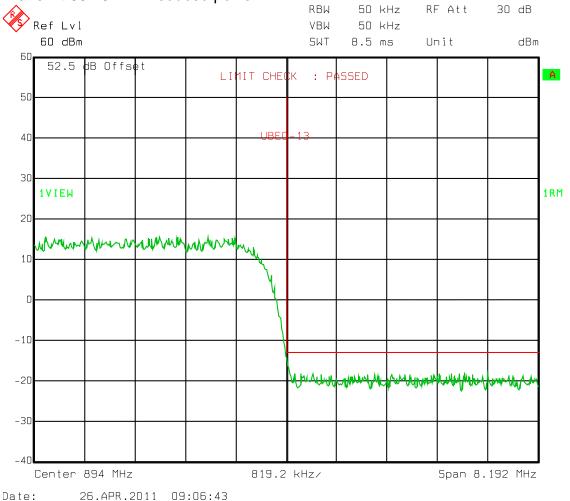
Test Data - Spurious Emissions

QPSK (WCDMA) Lower band edge intermodulation Transmit maximum power



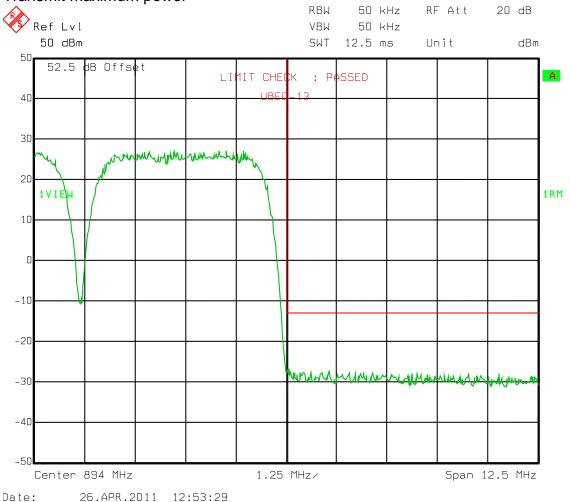
Test Data - Spurious Emissions

QPSK (WCDMA) Upper band edge Transmit 891.6 MHz reduced power



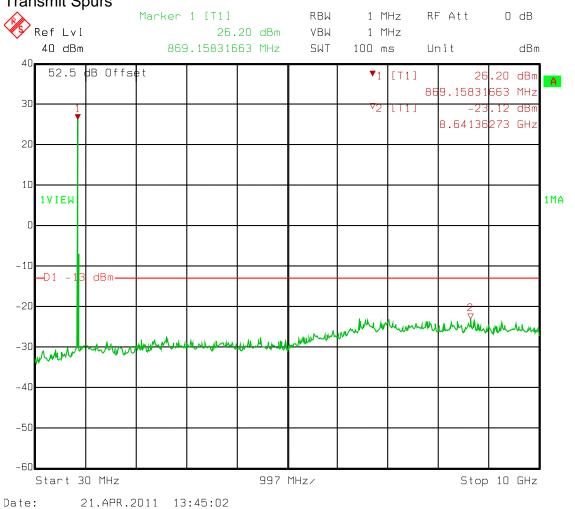
Test Data - Spurious Emissions

QPSK (WCDMA)
Upper band edge Intermodulation
Transmit maximum power



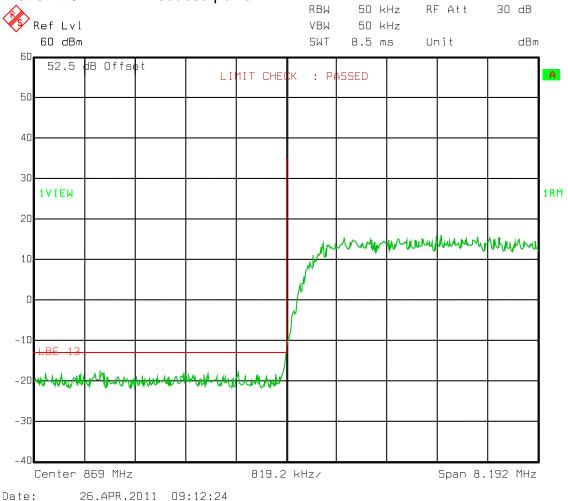
Test Data – Spurious Emissions

QPSK (WCDMA) Transmit Spurs



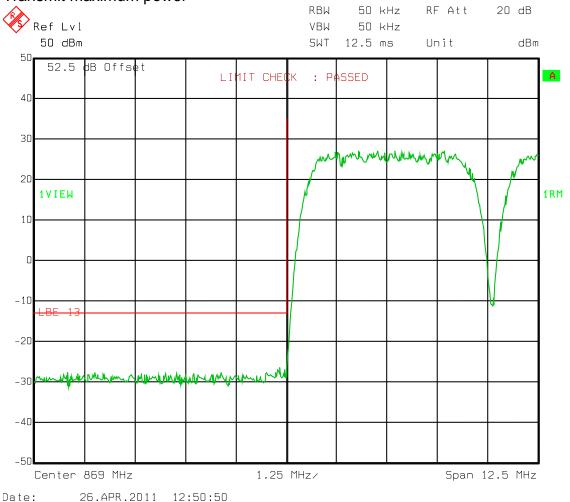
Test Data - Spurious Emissions

16QAM (WCDMA) Lower band edge Transmit 871.4 MHz reduced power



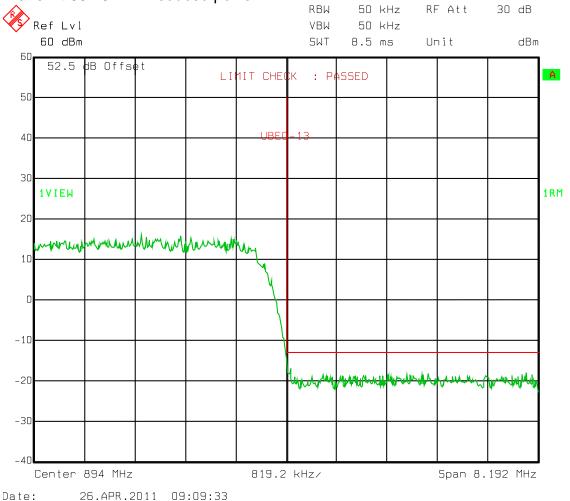
Test Data - Spurious Emissions

16QAM (WCDMA) Lower band edge intermodulation Transmit maximum power



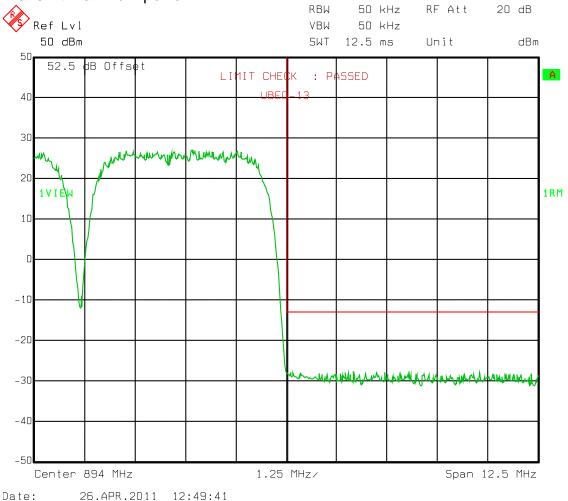
Test Data - Spurious Emissions

16QAM (WCDMA) Upper band edge Transmit 891.6 MHz reduced power



Test Data - Spurious Emissions

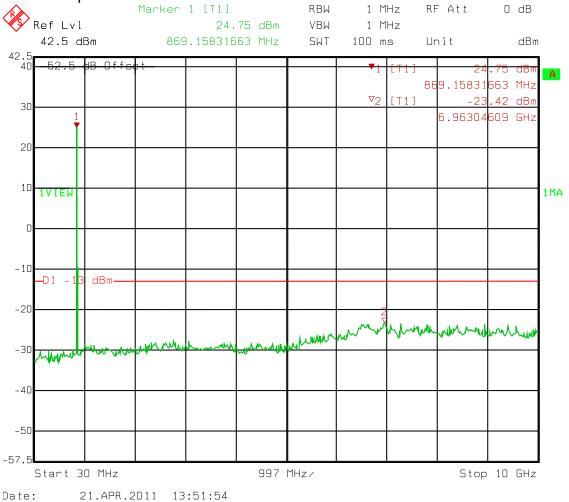
16QAM (WCDMA)
Upper band edge intermodulation
Transmit maximum power



Test Data – Spurious Emissions

16QAM (WCDMA)

Transmit spurs



CFR 47, PART 22, SUBPART H and RSS 132, Issue 2 CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

Section 6. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious Emissions PARA. NO.: 2.1051

TESTED BY: David Light DATE: 21 April 2011

Test Results: Complies.

Test Data: The spectrum was searched from 30 MHz to the tenth

harmonic of the carrier. There were no emissions detected above the noise floor which was at least

20 dB below the specification limit.

RBW/VBW=1 MHz Detector = Peak Sweep Time = Auto

.

Equipment Used: 1783-1763-1025-1016-993-1767

Measurement Uncertainty: +/- 1.7 dB

Temperature: 23 °C

Relative Humidity: 40 %

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2
CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

Section 7. Frequency Stability

NAME OF TEST: Frequency Stability PARA. NO.: 2.1055 RSS 132 PARA 4.3

TESTED BY: David Light DATE: 25 April 2011

Test Results: Complies

Measurement Data: Standard Test Frequency: 881.6 MHz

Standard Test Voltage: -48 Vdc

Equipment Used: 1767-1082-1064-1065

Measurement Uncertainty: +/- 1.7 dB

Temperature: 23 °C

Relative Humidity: 40 %

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2
CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

Test Data – Frequency Stability

Temp	Measured	Rho	Test	Frequency	Limit	Error	
(°C)	Frequency (MHz)		Voltage	Error (Hz)	(+/-Hz)	(ppm)	Comment
20	881.60006	0.9999	-	67	1322.4	0.1	
20	881.60006	0.9999	-55.2	67	1322.4	0.1	
20	881.60006	0.9999	-40.8	66	1322.4	0.1	
50	881.60004	0.9999	-	46	1322.4	0.1	
40	881.60005	0.9999	-	50	1322.4	0.1	
30	881.60005	0.9999	-	55	1322.4	0.1	
10	881.60004	0.9999	-48.0	45	1322.4	0.1	
0	881.60004	0.9999	-48.0	46	1322.4	0.1	
-	881.60004	0.9999	-48.0	45	1322.4	0.1	
-	881.60004	0.9999	-	48	1322.4	0.1	
-	881.60004	0.9999	-48	46	1322.4	0.1	
Notes:							

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2 CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

Section 7. Receiver Spurious Emissions

NAME OF TEST: Frequency Stability PARA. NO.: 2.1055

TESTED BY: Art Ruvalcaba RSS 132 PARA 4.3 DATE: 25 April 2011

Test Results: Complies

Measurement Data: See following table

Measurement Uncertainty: +/- 1.7 dB

Temperature: 23 °C

Relative Humidity: 40 %

Radiated E-Field Detailed List of Test Equipment

Asset	Description	Manufacturer	Model	Serial	Last Cal	Cal Due
Number			Number	Number		
1	3m Semi-Anechoic Chamber	Nemko USA, Inc.	Chamber	1	4-Oct-2010	4-Oct-2011
1016	Preamplifier	Hewlett Packard	8449A	2749A00159	19-Jun- 2010	19-Jun-2011
1025	Preamplifier, 25dB	Nemko USA, Inc.	LNA25	399	23-Feb- 2011	23-Feb-2012
1304	Antenna, Horn	Electro Metrics	RGA-60	6151	24-Nov- 2010	24-Nov-2012
1763	Antenna, Bilog	Schaffner	CBL 6111D	22926	11-Feb- 2011	11-Feb-2012
1767	Receiver, EMI Test 20Hz - 26.5 GHz - 150 - +30 dBm LCD	Rohde & Schwartz	ESIB26	837491/0002	01-Dec- 2010	01-Dec-2011
1783	Cable Assy, 3m Chamber	Nemko	Chamber		04-Oct- 2010	04-Oct-2011

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

Operator: Art Ruvalcaba Thursday May 05, 2011

Frequency (MHz)	Vert/Hor	Measured Level (dBuV)	AF (dB/m)	System Loss (dB)	Corrected Meas. (dBuV/m@3m)	Limit	Margin
236.733	V	42.8	11.5	-26.0	28.3	46.0	-17.7
237.231	Н	43.7	11.5	-26.0	29.2	46.0	-16.8
304.656	V	40.1	14.1	-25.7	28.5	46.0	-17.5
499.996	V	45.5	18.2	-25.3	38.4	46.0	-7.6
499.996	Н	45.8	18.2	-25.3	38.7	46.0	-7.3
629.988	Н	35.1	20.1	-24.7	30.5	46.0	-15.5
687.517	Н	32.7	20.6	-24.5	28.8	46.0	-17.2
749.987	Н	37.7	21.8	-24.5	34.9	46.0	-11.1
750.047	V	32.9	21.8	-24.5	30.2	46.0	-15.8
840.038	V	25.5	22.7	-24.4	23.8	46.0	-22.2

System Loss = Cable loss - preamplifier gain Corrected Measurement = Measured Level + AF + System Loss

Detector: QPk 30 MHz – 1 GHz Detector: AVG Above 1 GHz RBW = 120kHz, 30 MHz - 1 GHz RBW = 1 MHz, Above 1 GHz

Measurement was made from 30 MHz to 10 GHz. All emissions within 20 dB of the

specification limit are reported.

EQUIPMENT: FXCA

Section 8. Test Equipment List

Asset Tag	Description	Manufacturer	Model	Serial #	Last Cal	Next Cal
993	Antenna, Horn	A.H. Systems	SAS-200/571	162	09-Sep-2009	09-Sep-2011
1016	Preamplifier	Hewlett Packard	8449A	2749A00159	19-Jun-2010	19-Jun-2011
1025	Preamplifier, 25dB	Nemko USA, Inc.	LNA25	399	23-Feb-2011	23-Feb-2012
1054	Directional Coupler, Dual	Narda	3020A	34366	N/R	
1064	Attenuator	Narda	776B-20		N/R	
1065	Attenuator	Narda	776B-10		N/R	
1082	Cable, 2m	Astrolab	32027-2- 29094-72TC		N/R	
1763	Antenna, Bilog	Schaffner	CBL 6111D	22926	11-Feb-2011	11-Feb-2012
1767	Receiver,	Rohde & Schwartz	ESIB26	837491/0002	01-Dec-2010	01-Dec-2011
1783	Cable Assy, 3m Chamber	Nemko	Chanmber		04-Oct-2010	04-Oct-2011
2071	Power Sensor	Agilent	E9304A	MY41495174	12-Oct-2010	12-Oct-2011
2072	Power Meter	Hewlett Packard	E4418B	GB39401848	23-Sep-2010	23-Sep-2011

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2

CELLULAR BASE STATIONS

PROJECT NO.: 1026738RUS2

EQUIPMENT: FXCA

ANNEX A - TEST DETAILS

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2
CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

NAME OF TEST: RF Power Output PARA. NO.: 2.1046

Minimum Standard: Para. No. 22.913(a). The maximum effective radiated power

(ERP) of base transmitters and cellular repeaters must not

exceed 500 watts.

Method Of Measurement:

Detachable Antenna:

The peak power at antenna terminals is measured using an in-line peak power meter. Power output is measured with the maximum rated input level.

Integral Antenna:

The antenna substitution method is used to determine the equivalent radiated power at spurious frequencies. The spurious emissions are measured at a distance of 3 meters. The EUT is then replaced with a reference substitution antenna with a known gain referenced to a dipole. This antenna is fed with a signal at the spurious frequency. The level of the signal is adjusted to repeat the previously measured level. The resulting erp is the signal level fed to the reference antenna corrected for gain referenced to a dipole.

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2
CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

NAME OF TEST: Occupied Bandwidth PARA. NO.: 2.1049

Minimum Standard: Not defined

Method Of Measurement:

<u>CDMA</u>

Spectrum analyzer settings: RBW=VBW=30 kHz Span: 5 MHz

Span: 5 MHz Sweep: Auto

GSM / EDGE

RBW=VBW= 3 kHz

Span: 1 MHz Sweep: Auto

TDMA

RBW=VBW= 1 kHz

Span: 1 MHz Sweep: Auto

W-CDMA

RBW=VBW= 100 kHz

Span: 10 MHz Sweep: Auto

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2 CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

NAME OF TEST: Spurious Emission at Antenna PARA. NO.: 2.1051

Terminals

Minimum Standard: Para. No. 22.917(e). The mean power of emissions

must be attenuated below the mean power of the unmodulated carrier on any frequency twice or more than twice the fundamental emission by at least 43 + 10 log P. This is equivalent to -13 dBm absolute

power.

Method Of Measurement:

Method Of Measurement:

Spectrum analyzer settings:

CDMA GSM / EDGE

RBW: 1 MHz (> 1 MHz from Band Edge) RBW: 1 MHz (> 1 MHz from Band Edge) RBW: 30 kHz (< 1 MHz from Band Edge) RBW: 3 kHz (< 1 MHz from Band Edge)

 $VBW: \ge RBW$ $VBW: \ge RBW$ Sweep: Auto Sweep: Auto

Video Avg: 6 Sweeps Video Avg: Disabled

TDMA W-CDMA

RBW: 1 MHz (> 1 MHz from Band Edge) RBW: 1 MHz (> 1 MHz from Band Edge) RBW: 3 kHz (< 1 MHz from Band Edge) RBW: 100 kHz (< 1 MHz from Band Edge)

 $\begin{array}{ll} \mathsf{VBW:} \ \geq \mathsf{RBW} & \mathsf{VBW:} \ \geq \mathsf{RBW} \\ \mathsf{Sweep:} \ \mathsf{Auto} & \mathsf{Sweep:} \ \mathsf{Auto} \end{array}$

Video Avg: Disabled Video Avg: 6 Sweeps

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2
CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

NAME OF TEST: Field Strength of Spurious Radiation PARA. NO.: 2.1053

Minimum Standard: Para. No. 22.917(e). The mean power of emissions

must be attenuated below the mean power of the unmodulated carrier on any frequency twice or more than twice the fundamental emission by at least 43 + 10 log P. This is equivalent to -13 dBm absolute

power.

Method of Measurement TIA/EIA-603

The antenna substitution method is used to determine the equivalent radiated power at spurious frequencies. The spurious emissions are measured at a distance of 3 meters. The EUT is then replaced with a reference substitution antenna with a known gain referenced to a dipole. This antenna is fed with a signal at the spurious frequency. The level of the signal is adjusted to repeat the previously measured level. The resulting erp is the signal level fed to the reference antenna corrected for gain referenced to a dipole.

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2 CELLULAR BASE STATIONS

EQUIPMENT: FXCA PROJECT NO.: 1026738RUS2

NAME OF TEST: Frequency Stability PARA. NO.: 2.1055

Minimum Standard: Para. No. 22.355. The transmitter carrier frequency

shall remain within the tolerances given in Table C-1.

Table C-1

Freq. Range (MHz)	Base, fixed	Mobile > 3 W	Mobile ≤ 3 W
821 to 896	1.5	2.5	2.5

Method Of Measurement:

Frequency Stability With Voltage Variation:

The E.U.T. is placed in an environmental chamber and allowed to stabilize at +20 degrees Celsius for at least 15 minutes. The frequency counter and signal generator are phase locked with the same 10 MHz reference frequency by connecting the 10 MHz ref. out of the counter to the 10 MHz ref, in of the signal generator. With the voltage input to the E.U.T. set to 85% S.T.V., the frequency is measured in 30 second intervals for a period of 5 minutes. This procedure is repeated at 100% S.T.V. and 115% S.T.V.

Frequency Stability With Temperature Variation:

The input voltage to the E.U.T. is set to S.T.V. and the temperature of the environmental chamber is varied in 10 degree steps from -30 degrees C to +50 degrees C. The E.U.T. is allowed to stabilize at each temperature and the frequency is measured in 30 second intervals for a period of 5 minutes.

CFR 47, PART 22, SUBPART H and RSS 132, Issue 2

CELLULAR BASE STATIONS

PROJECT NO.: 1026738RUS2

EQUIPMENT: FXCA

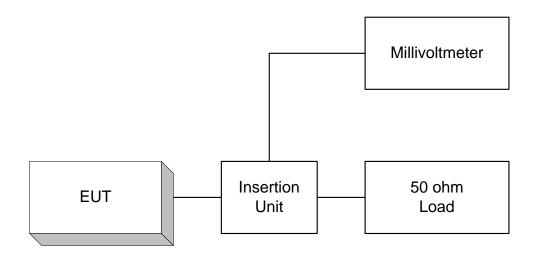
ANNEX B - TEST DIAGRAMS

1026738RUS2

PROJECT NO.:

EQUIPMENT: FXCA

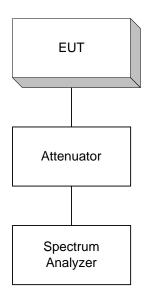
Para. No. 2.985 - R.F. Power Output



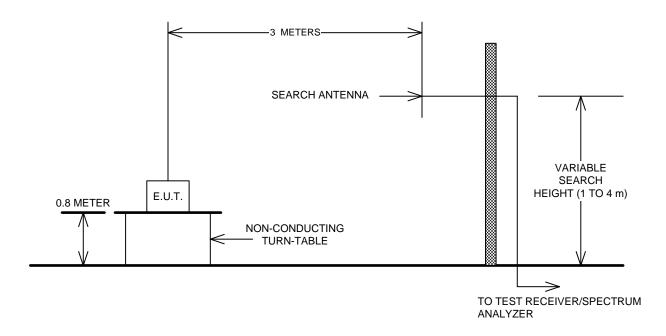
Para. No. 2.989 - Occupied Bandwidth



Para. No. 2.991 Spurious Emissions at Antenna Terminals



Para. No. 2.993 - Field Strength of Spurious Radiation



1026738RUS2

EQUIPMENT: FXCA PROJECT NO.:

Para. No. 2.995 - Frequency Stability

