TRULY INDUSTRIAL (SHANWEI) LTD

NETPAD

Model: N701WG

May 31st 2011

Report No.: 1105013(FCC_PCE)
(This report supersedes NONE)



Modifications made to the product: None

This Test Report is Issued Under the Authority	of:
David Zhang	Bai
David Zhang	Leslie Bai
Compliance Engineer	Director of Certification

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All Test Data Presented in this report is only applicable to presented Test sample.



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Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC , RF/Wireless , Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless , Telecom
Taiwan	BSMI , NCC , NIST	EMC, RF, Telecom , Safety
Hong Kong	OFTA , NIST	RF/Wireless ,Telecom
Australia	NATA, NIST	EMC, RF, Telecom , Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF , Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC , RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom, Safety

Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC , RF , Telecom
Canada	IC FCB , NIST	EMC , RF , Telecom
Singapore	iDA, NIST	EMC , RF , Telecom
ÉÚ	NB, NIST	EMC,RF,Safety,Telecom



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1 Executive Summary & EUT information

The purpose of this test programmed was to demonstrate compliance of the Truly Industrial (Shanwei) Ltd Model: N701WG against the current Stipulated Standards. The Netpad have demonstrated compliance with the FCC 22(H):2010, FCC 24(E):2010.

The test has demonstrated that this unit complies with stipulated standards.

EUT Information

EUT : Netpad

Description

Maximum

Conducted

Output Power

to Antenna

Maximum

Radiated

ERP/EIRP

Model No : N701WG Serial No : N/A

HW version : 2.1-update1
SW version : 2.6.29
Version number : 110303
Input Power : 5VDC, 2A

.

Antenna Gain 824 - 894 MHz : 0.5 dBi

1850-2170MHz : 0.8 dBi 2412-2480MHz : 0.8 dBi

 GPRS1900(Class 1)
 : 28.28 dBm

 EGPRS1900(Class E2)
 : 25.08 dBm

 WCDMA Band V(Class 3)
 : 22.37 dBm

 HSDPA Band V(Class 3)
 : 22.06 dBm

 HSUPA Band V(Class 3)
 : 22.16 dBm

 WCDMA Band II(Class 3)
 : 22.42 dBm

HSDPA Band II(Class 3) : 21.41 dBm HSUPA Band II(Class 3) : 21.67 dBm

GPRS1900 (Class 1) : 0.81 W (29.08 dBm) / EIRP EGPRS1900 (Class E2) : 0.39 W (25.88dBm) / EIRP WCDMA Band V(Class 3) : 0.19 W (22.87 dBm) / ERP HSDPA Band V(Class 3) : 0.18 W (22.56 dBm) / ERP HSUPA Band V(Class 3) : 0.18 W (22.66 dBm)/ERP

 WCDMA Band II(Class 3)
 : 0.21 W (23.22 dBm)/ EIRP

 HSDPA Band II(Class 3)
 : 0.17 W (22.21 dBm)/EIRP

 HSUPA Band II(Class 3)
 : 0.18 W (22.47 dBm)/EIRP

Classification

Per Stipulated : Mobile Device / PCE

Test Standard

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	2 TECHNICAL DETAILS
Purpose	Compliance testing of Netpad model N701WG with stipulated standard
Applicant / Client	Truly Industrial (Shanwei) Ltd
Manufacturer	Truly Industrial (Shanwei) Ltd Truly Industrial Area, Shanwei City Guangdong Province, PRC
Laboratory performing the tests	SIEMIC Laboratories
Test report reference number	1105013(FCC_PCE)
Date EUT received	Apr 10th 2011
Standard applied	See Page 9
Dates of test (from – to)	Apr 10th-May 31st 2011
No of Units:	1
Equipment Category:	PCE
Trade Name:	Truly Industrial (Shanwei) Ltd
Model Name:	N701WG
RF Operating Frequency (ies)	GPRS/EGPRS1900: 1850 ~ 1910 MHz(TX) / 1930 ~ 1990 MHz(RX) WCDMA/HSDPA/HSUPA Band V: 824 ~ 849 MHz(TX) / 869 ~ 894 MHz(RX) WCDMA/HSDPA/HSUPA Band II: 1850 ~ 1910 MHz(TX) / 1930 ~ 1990 MHz(RX)
Number of Channels:	N/A
Modulation:	GSM / GPRS : GMSK EGPRS : 8PSK WCDMA : QPSK/BPSK
FCC ID:	ZM2-N701



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3 MODIFICATION

NONE

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4 TEST SUMMARY

The product was tested in accordance with the following specifications. All testing has been performed according to below product classification:

Mobile Device

Test Results Summary

Test Standard	Description	Pass / Fail
FCC 22(H):2010 FCC 24(E):2010		
2.1046	Conducted Output Power	Pass
22.913(a)(2)	Effective Radiated Power	Pass
24.232(c)	Equivalent Isotropic Radiated Power	Pass
22.917(a) 24.238(a)	Occupied Bandwidth	Pass
22.917(a) 24.238(a)	Band Edge Measurement	Pass
22.917(a) 24.238(a)	Conducted Spurious Emission	Pass
22.917(a) 24.238(a)	Radiated Spurious Emission	Pass
22.355 24.235	Frequency Stability	Pass
N/A	Receiver Spurious Emissions	Pass

ANSI C63.4: 2003/ RSS-Gen Issue 2: 2007

PS: All measurement uncertainties are not taken into consideration for all presented test result.

Note: Testing was perform by configuring EUT to maximum output power status, the declared output power class for diffent



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5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

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5.1 Conducted Output Power

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2 Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the

range 30MHz - 40GHz is ± 1.5dB.

3 Environmental Conditions Temperature 23°C Relative Humidity 50%

Atmospheric Pressure 1019mbar

4 Test Date : Apr 10th- May 31st 2011

Tested By : David Zhang

Standard Requirement: 47 CFR § 2.1046

Procedures:

1. The transmitter output port was connected to base station.

2. Set EUT at maximum power through base station.

3. Select lowest, middle, and highest channels for each band and different test mode.

Test Result: Pass

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Conducted Output Power Test Result

5.1.1 **GSM Mode**

GPRS(GMSK) - CS1

Frequency Band	Channel No.	Frequency	Conducted Average Power(dBm)
	Low(512)	1850.2	28.23
GPRS1900	Mid(661)	1880.0	28.27
	High(810)	1909.8	28.28

EGPRS(8PSK) - MCS4

Frequency Band	Channel No.	Frequency	Conducted Average Power(dBm)
EGPRS1900	Low(512)	1850.2	24.83
	Mid(661)	1880.0	24.59
	High(810)	1909.8	25.08

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5.2 UMTS Mode

R99 RMC (12.2kps)

Frequency Band	UL Channel No.	Frequency	Conducted Average Power(dBm)
LIMTCOEO	Low(4132)	826.4	22.32
UMTS850 (Band V)	Mid(4182)	836.4	22.37
	High(4233)	846.6	22.26
LIMTS1000	Low(9262)	1852.4	22.22
UMTS1900 (Band II)	Mid(9400)	1880.0	22.42
(Balld II)	High(9538)	1907.6	22.40

Rel 6 HSDPA Mode

Frequency Band	Mode	UL Channel No.	Frequency	Conducted Average Power(dBm)
		Low(4132)	826.4	22.05
	Subtest 1	Mid(4182)	836.4	22.06
	Sublest 1	High(4233)	846.6	22.06
		Low	826.4	22.04
UMTS850	Subtest 2	Mid	836.4	22.02
(Band V)	Sublest 2	High	846.6	21.98
(Ballu V)		Low	826.4	22.04
	Subtest 3	Mid	836.4	22.03
	Sublest 3	High	846.6	21.91
		Low	826.4	21.99
	Subtest 4	Mid	836.4	22.01
		High	846.6	22.03
	Subtest 1	Low(9262)	1852.4	21.41
		Mid(9400)	1880.0	20.41
		High(9538)	1907.6	20.36
		Low	1852.4	21.28
LIMTCAGOG	Subtest 2	Mid	1880.0	20.98
UMTS1900	Sublest 2	High	1907.6	21.38
(Band II)		Low	1852.4	21.08
	Subtest 3	Mid	1880.0	21.36
	Subjest 3	High	1907.6	21.07
		Low	1852.4	21.29
	Subtest 4	Mid	1880.0	21.27
		High	1907.6	21.19

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Rel 6 HSPA Mode

Frequency Band	Mode	UL Channel No.	Frequency	Conducted Average Power(dBm)
		Low(4132)	826.4	21.71
	Subtest 1	Mid(4182)	836.4	22.16
	Sublest 1	High(4233)	846.6	21.28
		Low	826.4	21.66
UMTS850	Subtest 2	Mid	836.4	22.01
(Band V)	Sublest 2	High	846.6	21.98
(Dallu V)		Low	826.4	20.99
	Subtest 3	Mid	836.4	22.08
	Sublest 3	High	846.6	21.76
		Low	826.4	20.96
	Subtest 4	Mid	836.4	21.08
		High	846.6	21.20
		Low(9262)	1852.4	21.67
	Subtest 1	Mid(9400)	1880.0	21.06
		High(9538)	1907.6	21.16
		Low	1852.4	21.09
	Subtest 2	Mid	1880.0	21.19
UMTS1900	Sublest 2	High	1907.6	20.97
(Band II)		Low	1852.4	21.07
	Subtest 3	Mid	1880.0	21.15
	Sublest 3	High	1907.6	21.22
	Subtest 4	Low	1852.4	21.07
		Mid	1880.0	21.39
		High	1907.6	21.49

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5.3 Effective Radiated Power and Effective Isotropic Radiated Power

Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2 Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the

range 30MHz - 40GHz is $\pm 1.5dB$.

3 Environmental Conditions Temperature 23°C Relative Humidity 50%

Atmospheric Pressure 1019mbar

4 Test Date: Apr 10th- May 31st 2011

Tested By: David Zhang

Standard Requirement: 47 CFR § 22.913(a)(2), § 24.232(c);

Procedures:

- 1. The EUT was switched on and allowed to warm up to its normal operating condition.
- 2. Measurement was made at a distance of 3 m.
- 3. The measuring antenna was set to 1 meter away from the ground plain.
- 4. Maximization of the emissions was carried out by rotating the EUT, and adjusting the antenna azimuth.
- 5. The test was done in both horizontal and vertical antenna polarizations.
- 6. The measurement shall be made with the transmitter set to the lowest operating frequency and with the transmitter set to the highest operating frequency.

Sample Calculation: Corrected Amplitude = Raw Amplitude (dBj V/m) + ACF(dB) + Cable Loss(dB)

Test Result: Pass

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Cellular Band ERP Test Result

Test Mode / Frequency	Lower Channel Calculated EIRP (dBm)	Middle Channel Calculated EIRP (dBm)	High Channel Calculated EIRP (dBm)	Limit ERP (dBm)
WCDMA Band V	22.82	22.87	22.76	39.00
HSDPA Band V	22.55	22.56	22.56	39.00
HSUPA Band V	22.21	22.66	21.78	39.00

PCS Band EIRP Test Result

Test Conditions	Lower Channel Calculated EIRP (dBm)	Middle Channel Calculated EIRP (dBm)	High Channel Calculated EIRP (dBm)	Limit EIRP (dBm)
GPRS1900	29.03	29.07	29.08	33.00
EGPRS1900	25.63	24.39	25.88	33.00
WCDMA Band II	23.02	23.22	23.20	33.00
HSDPA Band II	22.21	21.21	21.16	33.00
HSUPA Band II	22.47	21.86	21.96	33.00

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23°C

5.4 Occupied Bandwidth

1. <u>Conducted Measurement</u>

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2 Environmental Conditions Temperature

Relative Humidity 50%

Atmospheric Pressure 1019mbar

3 Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the

range 30MHz - 40GHz is $\pm 1.5dB$.

4 Test Date: Apr 10th- May 31st 2011

Tested By : David Zhang

Requirement(s): 47 CFR § 22.917(a), § 24.238(a)

Procedures:

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.

2. The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers

Results: Pass

Cellular Band Test Result

Test Mode	Channel	Occupied Bandwidth	26 dB Bandwidth
WCDMA Band V	Low	4.21MHz	4.72MHz
	Mid	4.20MHz	4.72MHz
	High	4.19MHz	4.72MHz
HSDPA Band V	Low	4.16MHz	4.73MHz
	Mid	4.21MHz	4.733MHz
	High	4.18MHz	4.74MHz
HSUPA Band V	Low	4.18MHz	4.73MHz
	Mid	4.16MHz	4.73MHz
	High	4.16MHz	4.74MHz



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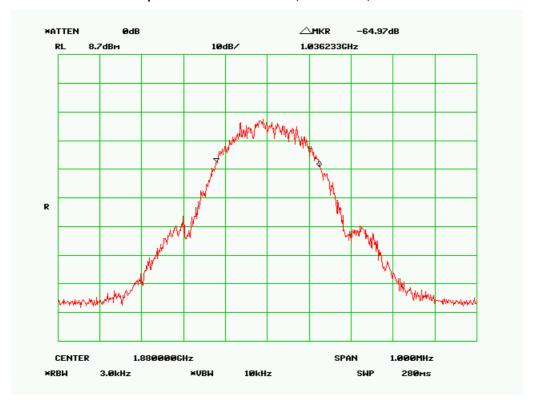
PCS Band Test Result

Test Mode	Channel	Occupied Bandwidth	26 dB Bandwidth
GPRS1900	Low	244.1KHz	322.1KHz
	Mid	244.0 KHz	322.0KHz
	High	244.0KHz	322.2KHz
EGPRS1900	Low	244.1KHz	322.2KHz
	Mid	243.7 KHz	322.0 KHz
	High	244.0KHz	322.0KHz
WCDMA Band II	Low	4.20MHz	4.76MHz
	Mid	4.20MHz	4.76MHz
	High	4.20MHz	4.75MHz
HSDPA Band II	Low	4.17MHz	4.76MHz
	Mid	4.19MHz	4.76MHz
	High	4.17MHz	4.76MHz
HSUPA Band II	Low	4.16MHz	4.75MHz
	Mid	4.21MHz	4.747MHz
	High	4.18MHz	4.76MHz

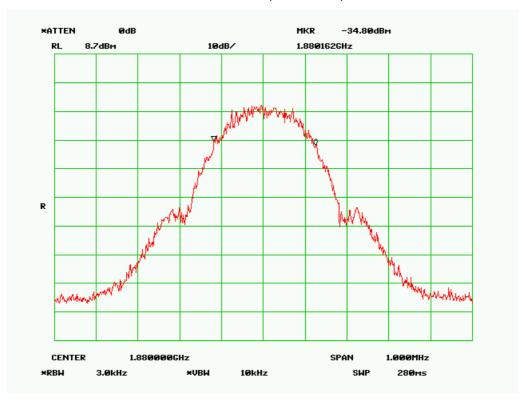
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Refer to the attached plots

99% Occupied Bandwidth - GPRS1900, Channel 661, Mid Channel

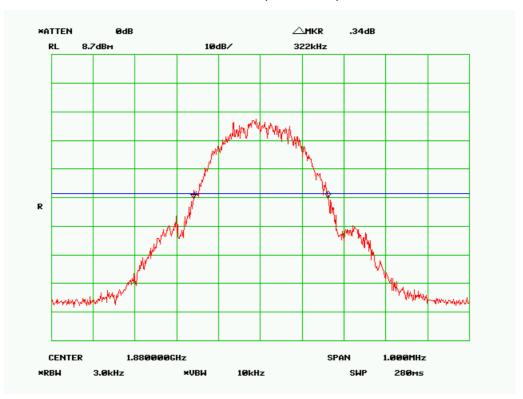


99% Bandwidth - EGPRS1900, Channel 661, Mid Channel

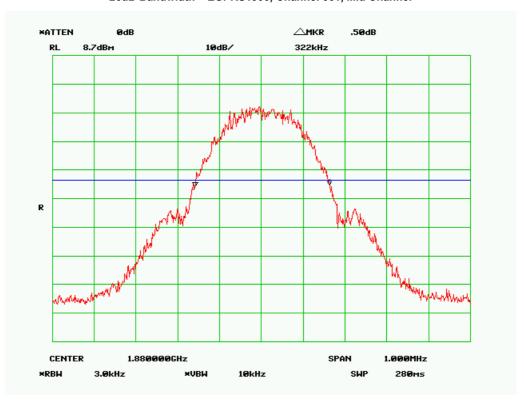


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26dB Bandwidth - GPRS1900, Channel 661, Mid Channel

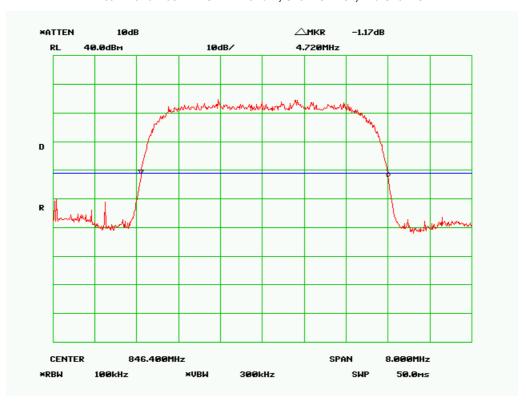


26dB Bandwidth - EGPRS1900, Channel 661, Mid Channel

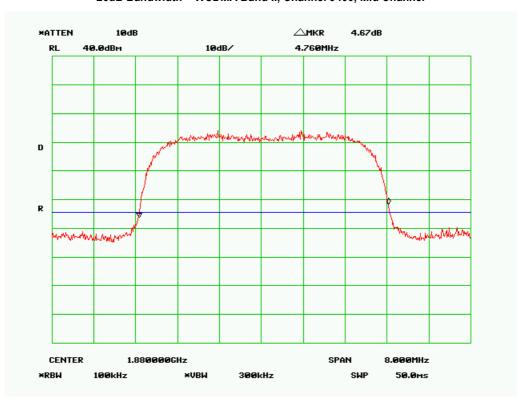


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26dB Bandwidth - WCDMA Band V, Channel 4182, Mid Channel



26dB Bandwidth - WCDMA Band II, Channel 9400, Mid Channel

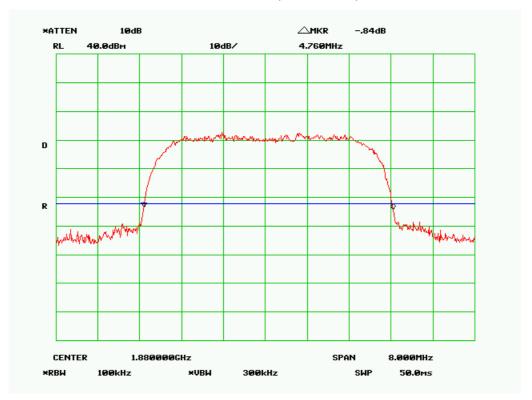


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26dB Bandwidth - HSDPA Band V, Channel 4182, Mid Channel

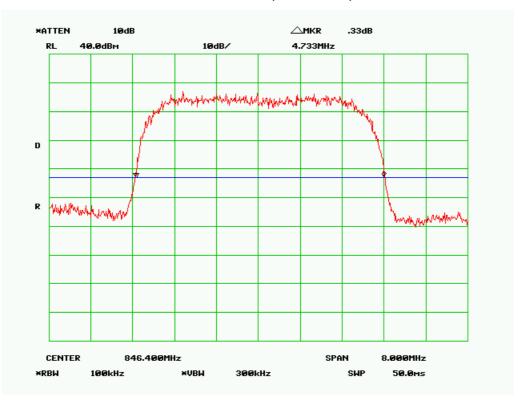


26dB Bandwidth - HSDPA Band II, Channel 9400, Mid Channel

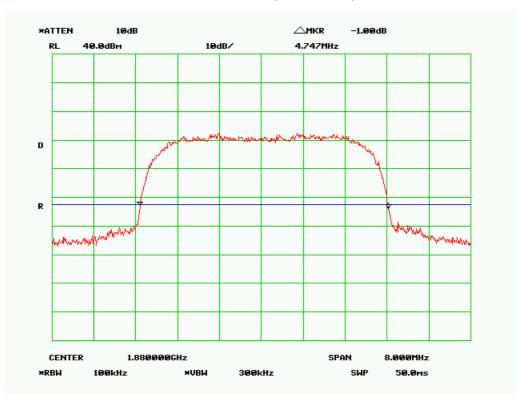


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26dB Bandwidth - HSUPA Band V, Channel 4182, Mid Channel



26dB Bandwidth - HSUPA Band II, Channel 9400, Mid Channel



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5.5 Band Edge Test Result

Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2 Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the

range 30MHz - 40GHz is $\pm 1.5dB$.

3 Environmental Conditions Temperature 23°C Relative Humidity 50%

Atmospheric Pressure 1019mbar

4 Test Date : Apr 10th- May 31st 2011

Tested By: David Zhang

Standard Requirement: 47 CFR § 22.917(a), § 24.238(a);

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

Procedures:

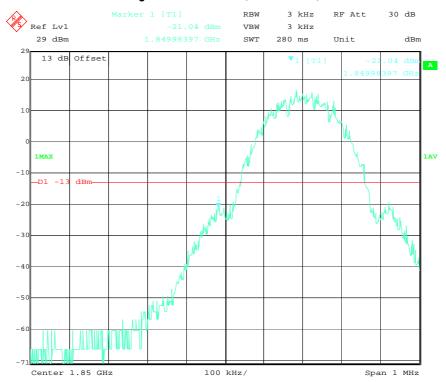
- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

Test Result: Pass

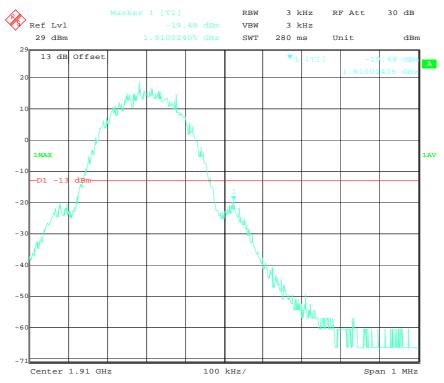
Refer to the attached plots.

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Lower Band Edge Plot - GPRS1900, Channel 512, Low Channel

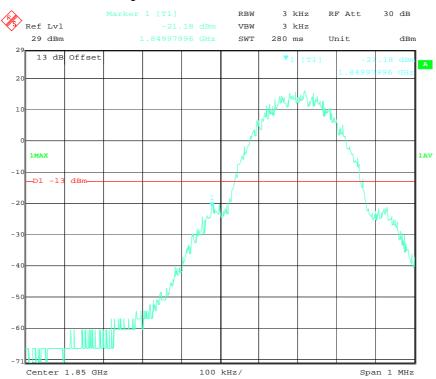


Higher Band Edge Plot - GPRS1900, Channel 810, High Channel

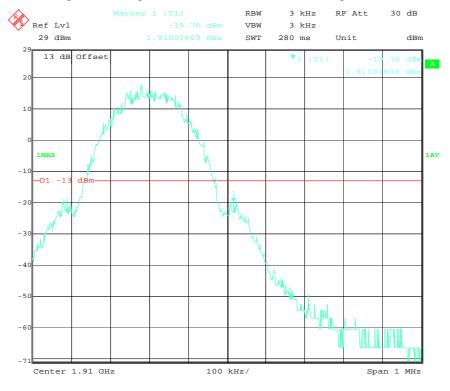


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Lower Band Edge Plot - EGPRS1900, Channel 512, Low Channel

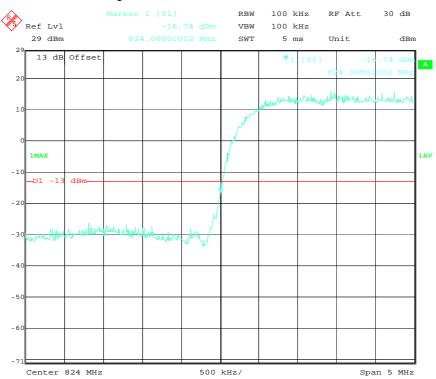


Higher Band Edge Plot - EGPRS1900, Channel 810, High Channel

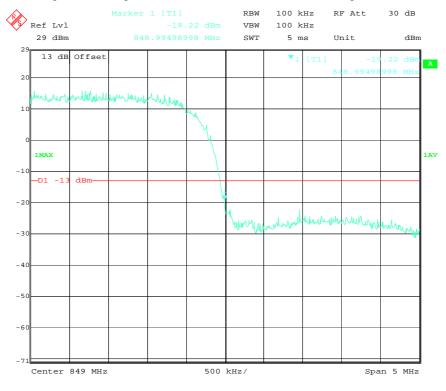


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Lower Band Edge Plot - WCDMA Band V, Channel 4132, Low Channel

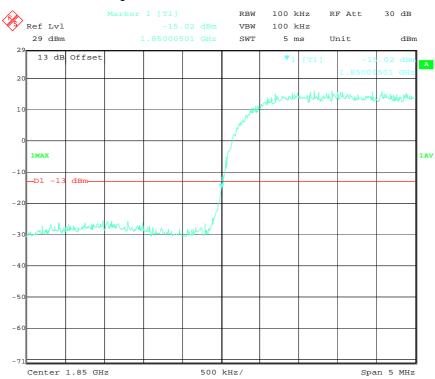


Higher Band Edge Plot – WCDMA Band V, Channel 4233, High Channel

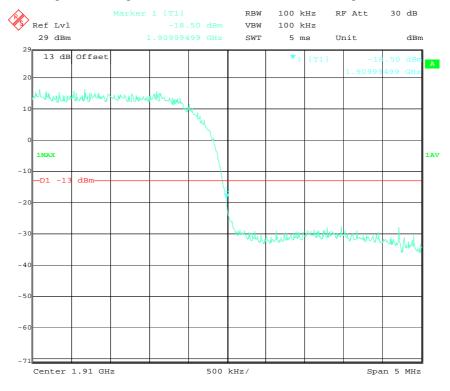


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Lower Band Edge Plot - WCDMA Band II, Channel 9262, Low Channel



Higher Band Edge Plot - WCDMA Band II, Channel 9538, High Channel



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5.6 Antenna Port Emission

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2 <u>Conducted Emissions Measurement Uncertainty</u>

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the

range 30MHz - 40GHz is ± 1.5dB.

3 Environmental Conditions Temperature 23°C Relative Humidity 50%

Atmospheric Pressure 1019mbar

4 Test Date : Apr 10th- May 31st 2011

Tested By: David Zhang

Standard Requirement: 47 CFR § 22.917(a), § 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

Procedures:

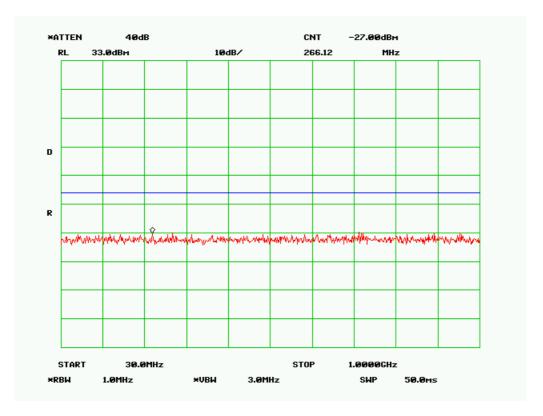
- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The middle channel for the highest RF power within the transmitting frequency was measured.
- 3. The conducted spurious emission for the whole frequency range was taken.

Test Result: Pass

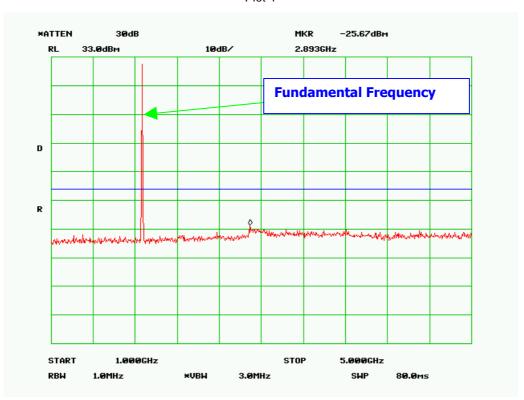
Refer to the attached plots.

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Configuration Mode: GPRS1900, Channel 661, Mid channel

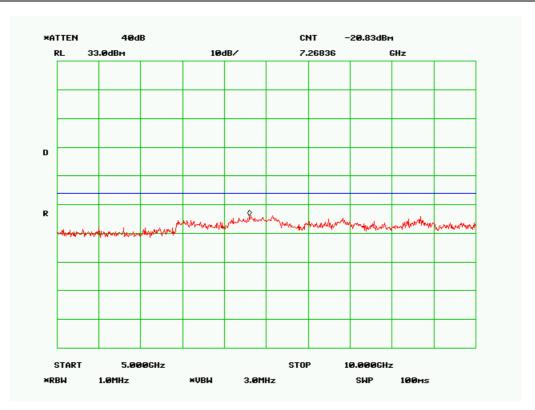


Plot-1

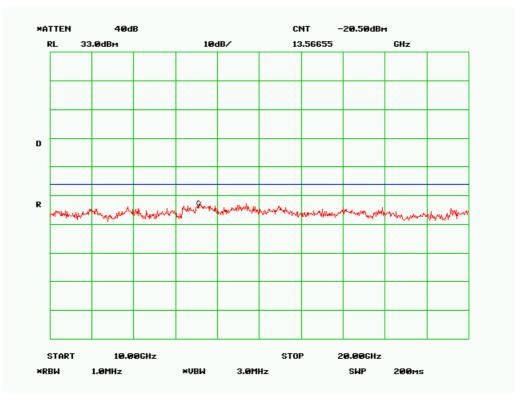


Plot-2

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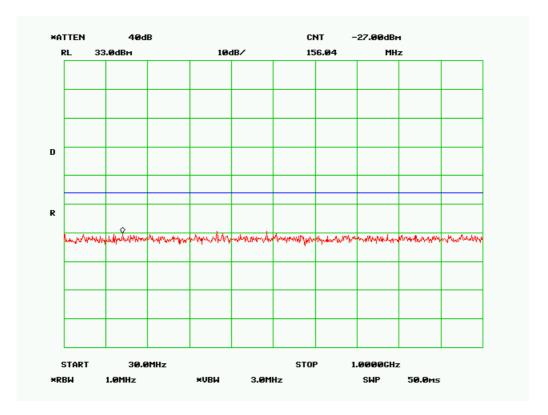
Plot-3



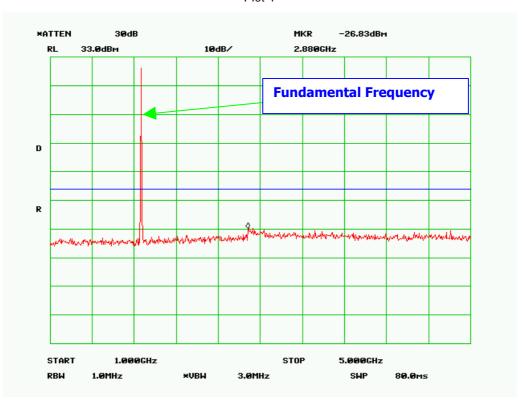
Plot-4

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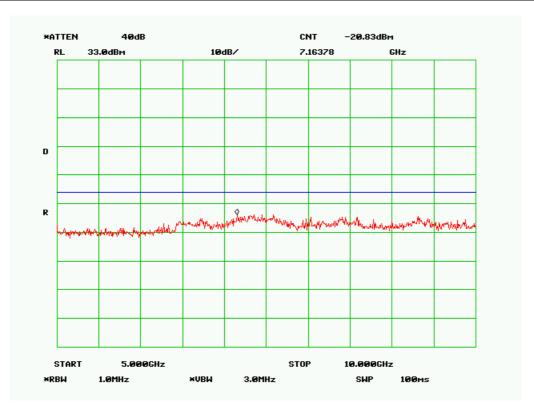
Configuration Mode: EGPRS1900, Channel 661, Mid channel



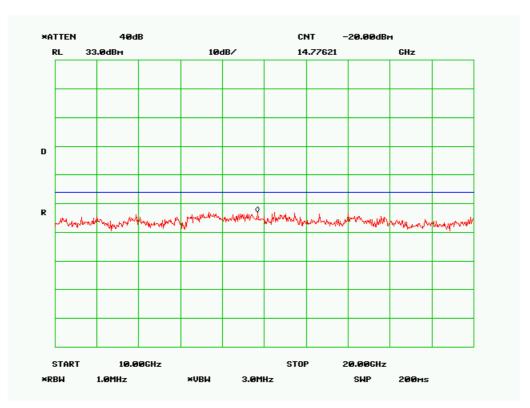
Plot-1



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Plot-3



Plot-4

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5.7 Radiated Spurious Emissions

- 1. <u>All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported.</u> All other emissions were relatively insignificant.
- 2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
- 3. Radiated Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 1GHz - 40GH is +6.0dB (for EUTs < 0.5m X 0.5m X 0.5m).

4. Environmental Conditions

Temperature 23°C
Relative Humidity 50%
Atmospheric Pressure 1019mbar

Test Date: Apr 10th- May 31st 2011

Tested By : David Zhang

Standard Requirement: 47 CFR § 22.917(a), § 24.238(a).

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

Procedures: Equipment was setup in a semi-anechoic chamber. For measurements above 1 GHz an average measurement was taken with a 10Hz video bandwidth. The EUT was tested at low, mid and high with the highest output power. An emission was scan up to 10th harmonic of the operating frequency.

Sample Calculation:

EUT Field Strength = Raw Amplitude (dBµ V/m) - Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)

Test Result: Pass

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Configuration Mode: GPRS1900, Channel 661, Mid channel

Frequency (GHz)	Reading (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Loss (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1.481	-73.28	249	188	Н	24.8	2.64	0	-45.84	-13	-32.84
2.411	-65.81	128	141	Н	27.5	2.91	0	-35.4	-13	-22.4
3.222	-57.28	304	131	Н	30.3	3.59	0	-23.39	-13	-10.39
5.832	-60.85	306	133	Н	33.4	5.27	0	-22.18	-13	-9.18

Note: Emission was scanned up to 20GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

Configuration Mode: EGPRS1900, Channel 661, Mid channel

Frequency (GHz)	Reading (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Loss (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1.788	-77.18	335	100	Н	25.7	2.52	0	-48.96	-13	-35.96
4.424	-69.80	359	100	Н	32.2	4.35	0	-33.25	-13	-20.25
6.236	-57.47	306	100	V	33.9	5.51	0	-18.06	-13	-5.06
7.854	-70.67	305	100	Н	36.1	7.01	0	-27.56	-13	-14.56

Note: Emission was scanned up to 20GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

Configuration Mode: WCDMA Band V, Channel 4182, Mid channel

Frequency (GHz)	Reading (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Loss (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1.495	-72.64	119	98	V	24.8	2.64	0	-45.2	-13	-32.2
2.258	-71.77	78	105	V	27.5	2.91	0	-41.36	-13	-28.36
5.352	-76.06	167	145	Н	32.9	4.89	0	-38.27	-13	-25.27
7.45	-63.35	162	167	Н	35.1	6.18	0	-22.07	-13	-9.07

Note: Emission was scanned up to 20GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

Configuration Mode: WCDMA Band II, Channel 9400, Mid channel

Frequency (GHz)	Reading (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Loss (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3.251	-66.53	268	193	Н	30.3	3.59	0	-32.64	-13	-19.64
5.217	-71.32	122	100	Н	32.9	4.89	0	-33.53	-13	-20.53
6.876	-63.88	311	108	V	34.5	6.19	0	-23.19	-13	-10.19
9.281	-66.20	151	135	V	38	6.68	0	-21.52	-13	-8.52

Note: Emission was scanned up to 20GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

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5.8 Frequency Stability

Requirement(s): 47 CFR § 22.355, § 22.235

Procedures: A communication link was established between EUT and base station. The frequency error was monitored and

measured by base station under variation of ambient temperature and variation of primary supply voltage...

Limit: The frequency stability of the transmitter shall be maintained within ± 0.00025% (± 2.5ppm) of the center frequency.

Environmental Conditions Temperature $-10 \sim 50^{\circ}$ C Relative Humidity 50%

Atmospheric Pressure 1019mbar

Test Date: Apr 10th- May 31st 2011

Tested By: David Zhang

Results: Pass

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Frequency Stability versus Temperature: The Frequency tolerance of the carrier signal shall be maintained within $\pm 0.00025\%$ of the operating frequency over a temperature variation of -10°C to +50°C at normal supply voltage.

Test Result for GPRS1900, Channel 661 (mid channel)

Temperature (°C)	Freq. Drift (Hz)	Freq. Deviation (Limit: ppm)	Pass/Fail
50	N/A	<2.5	N/A
40	-21	<2.5	Pass
30	-11	<2.5	Pass
20	-15	<2.5	Pass
10	-19	<2.5	Pass
0	-14	<2.5	Pass
-10	N/A	<2.5	N/A
-20	N/A	<2.5	N/A
-30	N/A	<2.5	N/A

Note: Manufacturer declares that operating temperature range of EUT is $0 \sim +40^{\circ}$ C.

Frequency Stability versus Input Voltage: The The Frequency tolerance of the carrier signal shall be maintained within \pm 0.00025% of the operating frequency , the frequency of the transmitter was measured at 85% and at 115% of the rated power supply voltage at 20°C environmental temperature.

Measured Voltage ±15% of nominal (DC)	Freq. Drift (Hz)	Freq. Deviation (Limit: 0.01%)	Pass/Fail
4.25	-21	<2.5	Pass
5.00	-12	<2.5	Pass
5.75	-18	<2.5	Pass

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Test Result for EGPRS1900, Channel 661 (mid channel)

Temperature (°C)	Freq. Drift (Hz)	Freq. Deviation (Limit: ppm)	Pass/Fail
50	N/A	<2.5	N/A
40	-14	<2.5	Pass
30	-16	<2.5	Pass
20	-28	<2.5	Pass
10	-27	<2.5	Pass
0	-17	<2.5	Pass
-10	N/A	<2.5	N/A
-20	N/A	<2.5	N/A
-30	N/A	<2.5	N/A

Note: Manufacturer declares that operating temperature range of EUT is 0 ~ +40°C.

Frequency Stability versus Input Voltage: The The Frequency tolerance of the carrier signal shall be maintained within \pm 0.00025% of the operating frequency , the frequency of the transmitter was measured at 85% and at 115% of the rated power supply voltage at 20°C environmental temperature.

Measured Voltage ±15% of nominal (DC)	Freq. Drift (Hz)	Freq. Deviation (Limit: 0.01%)	Pass/Fail
4.25	-18	<2.5	Pass
5.00	-21	<2.5	Pass
5.75	-17	<2.5	Pass

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Test Result for WCDMA Band V, Channel 4182 (mid channel)

Temperature (°C)	Freq. Drift (Hz)	Freq. Deviation (Limit: ppm)	Pass/Fail
50	N/A	<2.5	N/A
40	-13	<2.5	Pass
30	-15	<2.5	Pass
20	-17	<2.5	Pass
10	-12	<2.5	Pass
0	-21	<2.5	Pass
-10	N/A	<2.5	N/A
-20	N/A	<2.5	N/A
-30	N/A	<2.5	N/A

Note : Manufacturer declares that operating temperature range of EUT is 0 \sim +40 $^{\circ}$ C.

Frequency Stability versus Input Voltage: The Frequency tolerance of the carrier signal shall be maintained within ± 0.00025% of the operating frequency , the frequency of the transmitter was measured at 85% and at 115% of the rated power supply voltage at 20°C environmental temperature.

Measured Voltage ±15% of nominal (DC)	Freq. Drift (Hz)	Freq. Deviation (Limit: 0.01%)	Pass/Fail
4.25	-16	<2.5	Pass
5.00	-18	<2.5	Pass
5.75	-12	<2.5	Pass

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Test Result for WCDMA Band II, Channel 9400 (mid channel)

Temperature (°C)	Freq. Drift (Hz)	Freq. Deviation (Limit: ppm)	Pass/Fail
50	N/A	<2.5	N/A
40	18	<2.5	Pass
30	26	<2.5	Pass
20	16	<2.5	Pass
10	22	<2.5	Pass
0	27	<2.5	Pass
-10	N/A	<2.5	N/A
-20	N/A	<2.5	N/A
-30	N/A	<2.5	N/A

Note : Manufacturer declares that operating temperature range of EUT is 0 \sim +40 $^{\circ}$ C.

Frequency Stability versus Input Voltage: The The Frequency tolerance of the carrier signal shall be maintained within \pm 0.00025% of the operating frequency, the frequency of the transmitter was measured at 85% and at 115% of the rated power supply voltage at 20°C environmental temperature.

Measured Voltage ±15% of nominal (DC)	Freq. Drift (Hz)	Freq. Deviation (Limit: 0.01%)	Pass/Fail
4.25	23	<2.5	Pass
5.00	27	<2.5	Pass
5.75	26	<2.5	Pass

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5.9 Receiver Spurious Emissions

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2 Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the

range 30MHz - 40GHz is ± 1.5dB.

3 Environmental Conditions Temperature 23°C

Relative Humidity 50%

Atmospheric Pressure 1019mbar

4 Test Date : Apr 10th- May 31st 2011

Tested By: David Zhang

Standard Requirement: N/A

Procedures: The conducted spurious emissions were measured conducted using a spectrum analyzer at mid channels. the search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is the higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever is the higher, without exceeding 40 GHz. Receiver spurious emissions at any discrete frequency shall not exceed 2 nanowatts in the band 30-1000 MHz, or 5 nanowatts above 1 GHz..

Test Result: Pass

Note: All test modes were verified, there's no outstanding emission was detected.



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Attachment 1 Test Result (Output power, Emission Mask, ACLR):

GPRS1900 mode result

Measurement Report



Geenster! Sunday), 94ry 20; 2011, 12:02:30 752 Panel Silverary Contribute Visio 2008 by yielding vit als. CMU Ment: BINDS_BISSONWH, 645,665W/N266W/N,665W/N,665W/N,666COPROC_FULL_6626W/69KCW Options: WEDCC-KG KHEDCEN/21/221/20 KEN/KEY/KEEK/EKEK/KEU/KEU/KEU/KE/KC/KREKER/KEK/KEK/KER/KEN/KEN/KE/KE ndct. Sequence Lower Limit Upper Limit Measured Value PSF Test Name and Candition. Melson: GSZ 100; BOOK CsernolCare? GOY-85 (196x, TCH Crannel, FV2; Ref. Lever. -65 (), Supper GPSS THIS TREASON IS AND WHICH DIVIDING IS GIS THE BEING AND THE OW SAUS SIG MOVE SCON AND TON THEIR YOM A CODING SCHOOL CIST. ADVIOUSING UID PED SISSE AND SIX Automatic SQS Configuration Of Design (Set 9.7 Study, SE OFFICE OFFICE OFFICE OFFICE GG GG GG GG GG GG GG GG Liebs (6816.) Please, Ganna's OFF, OFF, ST7, ON, ST7, ST7, OFF, ST7, 3, 5, 2, 3, 3, 3, 3, 3, 3, 3, 3 Estended Sykumin American, Auto, IRC Marc Chancer MCCH SASE J. S. THE MODELLY, Service JOSESPORT 4128194 C. Previous PROF. Previous S. Liu & Stat Delas DC17 ----1 GPRS Call to Mobile: served. Nomina of Series 1, Guard Laval Infly 2 ft Average Power; Solid; 10 fivrate 28.00 dBm 32.00 dBm DE-25 (60/e) present Powert Time Temphate: 695.2; 47 Borotz Timing Error: Skill 3 , 10 Ductor 2.00 Bit 2.00 88 26-56 % Phone Error Peak (GMB) G: 10x 3, 20 for No. 20.00% B-840 No. Phase Error RHS (GMSR); Ser 3, 26 Sweet 4.00% 6.65% 223% d Frequency Error (SMISH), Sat 3 , 39 Surats 90.00 % 490,007% 40.72% Spectrum due to Switching (DSMP); 30-3% ins. passed STAR Clim

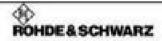
Spectrum Switching: @ - 2 C HPG Spectrum Switching: 45-24 Miles 22,17 etbre Spectrum Switching: (2) 2 4 Mar. -34.35 other Spectrum Switching: @27.690 AND RESIDEN Spectrum due to Modulation (GMSR): SSr5; 50 Suratz Spectrum Madutation: 45-95 (No. 2234 stee Spectrum Medidation: (2)-9.4 600 Spectrum Reference Peacer; do GMrd: THE RELIGIOUS Spectrum Modulation: (3.7 4 Mill) Congression and Related Additional Lattice Confederation and Confederation Confederati 23730 (00)

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Measurement Report



Test Name and Condition	LowerLimit	Upper Limit	Measured Value	PF
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Spectrum due to Switching (SMMH): 30 25/201		-	persed	1
Spectrum Switching: 40-25100			-34.81 etter	
Spectrum Switching: (D-2+100)	(A)		-28 KZ #BH	
Spectrum Switching: (Q.D.) Mrc	11		20.47 63es	
Spectrum Switching: (0.2 f MHz)			-34.79 other	
Spectrum due to Modulation (SMSR): SSrS., 50 Sunits			passed	1
Spectrum Modulation: @+911690	B		2387 484	
Spectrum Medidation: (g) - 0 x 650;	4		ARREST VIDO	
Spectrum Reference Power, @ // U/m			24.39 4819	
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Spectrum Modulation: @954hc			7321 dBc	

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Power Time Template: Oct.2, 40 Books			persed	1
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Phase Breit Peak (GMBP): 126.5 , 27 Septia	-20,00%	20,00 %	891%	1
Phase Binor PMS (GMSR): Skr. 3, 35 Susta	4.00 %	6.00 %	2.40 %	10
Frequency Error (GMBK): SSrt 3, 20 Birots	-80.00%	90.00 %	40,76 %	10
Spectrum due to Switching (SSMH): 25 (No.17)			passed	1
Spectrum Switching: 40-2010/0			-95.91.0304	
Spectrum Switching: 40-7 4 60-2	10		-01.97 6801	
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Spectrum Switching: 40:7:5 Miss.			40.85 ethn	
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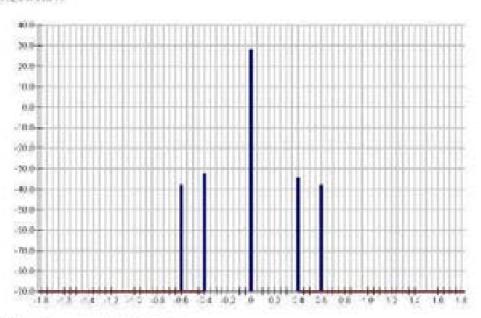
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Measurement Report Rohde & SCHWARZ



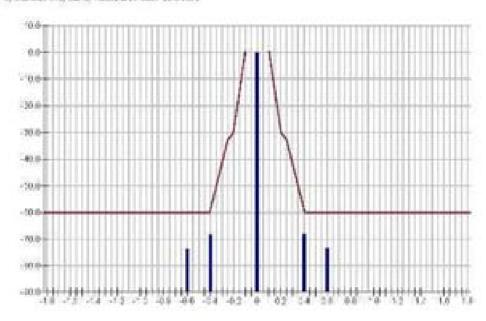
Annex: Spectrum due to Switching (SPSK)

Channel SCE (Intl Count 2



Annex: Speetrum: Hue to Modulation (GMSH)

Gammer It, Chartnel B12, Stat 8, February Power 2013 office.



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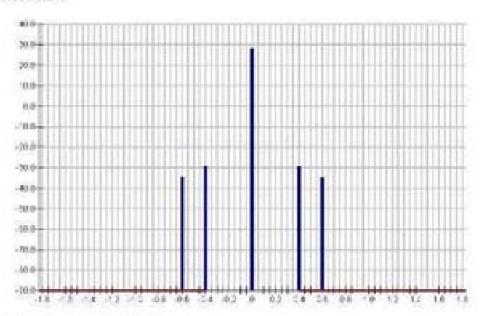
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Measurement Report Rohde & SCHWARZ



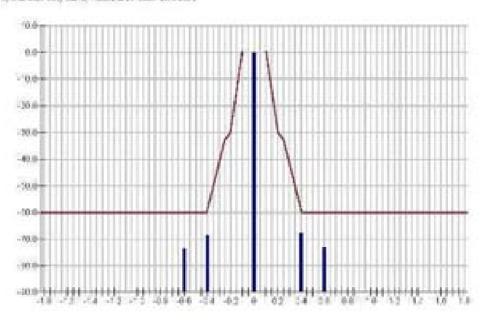
Annex: Spectrum due to Switching (SPSK)

Channel CCI, (Red Closel 2)



Annex: Speetrum: Hue to Modulation (GMSH)

Gammer It, Channel 661, 53e13. Finiterency Power 311.4 of re.



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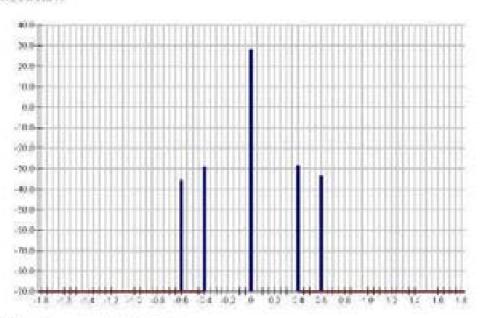
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Measurement Report Rohde & SCHWARZ



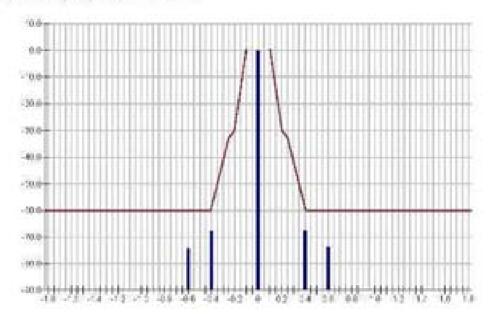
Annex: Spectrum due to Switching (SPSK)

Channel BN, Box Cook 2



Annex: Speetrum: Hue to Modulation (GMSH)

Gammer It, Changest Brid; Stat & Robreton's Power 1914 of In-



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EGPRS1900 mode result

Measurement Report

ROHDE&SCHWARZ

Spender: converse: Francy Way 27, 2011 - 2-42 KT AMZ

CMU Ident: Powers Schwarz Cast / 205 Y Not 2008 90; Y Y lotte; VS 45

Options: BTV072.977.82THWH, 647,657VWTY-354VWH, 65TTW54,665,CC2PHCC_PULL, 617,676,655,PCMCIN

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Phone Error RMS (BPSK): SSH 31, 30 Surst.	4.00%	6.00%	240 %	1
Prequency Error (#P\$P\$: 554.8 - 20 Burds	-90.00%	90-00 %	35.54%	1
Spectrum due to Switching (SPSH): 20 (Turk)			passed	1
Spectrum Switching: 40-1114th			-61.67 oper	100
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Spectrum Switching: (0) 0 / 55%	0		20.02 (05)	
Spectrum Switching: 49.75 Mile	12		-39.77 abry	
Spectrure due to Modulation (SPSK): 522.3 - NG JUNES			passed	1
Spectrum Modulation: @+2 f 6Fc	0		45.05 pHz	
Spectrum Modulation: (0 - 2 / 6/6):			4573.664	
Spectrum Perference Power: @ CMPD:	1		24.64 (6)19	
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State Trender It DEM HIGG THAT HOW WE'VE CHARLEST ROSE

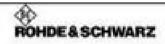
Nomber of Dray 1, Guara (servicint): 2.9

Spectrum Modulation: (0.2516)

Average Power; Stol 2, 10 Cursts	29:50 dBm	52.00 dilm	24.59 (60)	-
Tireling Error: Shid J., 10 Shinki	4.00 Bit	2.00 Dit	9.00 Bit.	1
Phase Brost Peak (8P\$40): Son 3 ; 30 Sunsh	-20.00 %	26.06 %	6.66%	1
Phase Error RMS (BPSN); Sat 5, 32 Kinds	4.00%	5.00 %	2.00%	1
Prequency Error (IPSP): 207 S., 20 Duran	-90.00%	90.00 N	-70,61%	1

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Measurement Report



Test Name and Condition	Lower Limit Upper Limit	Measured Value	P
Spectrum due to Switching (SPSH): 20 Jhursts		persed	1
Spectrure Switching: (Qu. 3 C file);		-C 16 obs	7.55
Spectrum Switching: 40 - 2 4 690		-17,20 dtm	
Spectrum Switching: @24 Will		-97,30 dbm	
Spectrum Einterlang: @ 7.5 M/V		2039 600	
Spectrum due to Modulation (SPSQ: 522.3 ; 50 Burist:		persed	4
Spectrum Medulation: @ 25 Mile		46.67 HHz	
Spectrum Modulation: @+9+680		48.35 dbc	
Spectrum Reference Power (j) 01/00		DESCRIPTION	
Spectrum Modulation: @11 # N/H		AVE.00 (004)	
Spectrum Modulation: @ 27440	Commence of the commence of	70.05 dd c	

Descript Albeid P. Enable, SK. OFF OFF ON OFF ON OFF, OFF, OFF, or old old did did did did.

Caren (State F Bruses, Guross) OFF OFF CER, ON CER, CER, OFF, CER, 2, 3, 3, 3, 3, 3, 3

Stan Timoday 3; (656) 1900 Profesionance 230 Costag Schoole IMCSS

Nombred Detry & Guest Systlam (Ed.)

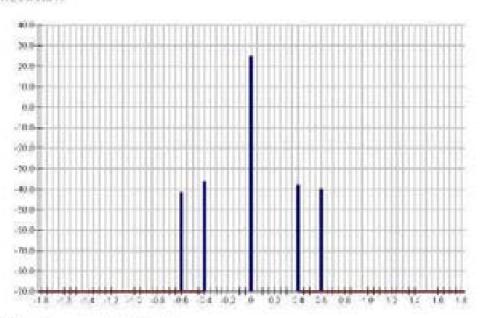
Average Power: Stot 2 , 10 6/r/sts	28.50 45.4	92.00 dBm	25.00 dDm	-
Phone Error Freik (BFBR): SM 5, 20 Sm/5	-20.00 %	20.00 %	624%	.2
Phase Error RMS (BPSH): Star 3 , 20 Surple	A 00 %	6.66 %	206%	1
Frequency Error (IPSIR): 552.3, 2005s/sis.	-90,00%	90.00%	-010,75 %	1
Spectrum due to Switching (SPSH): 20 Junit			emmt.	1
Spectrum Switching: @ - 2.5 time:	S		-01/25 ober	
Spectrum Switching: @-0 = 65-0			71E-00-HDH	
Spectrum Switching: 10:0 x thru:	Li i		18.46 (ibre)	
Spectrum benching: 49.25 Mile:			21.30 000	
Spectrum due to Modulation (RFSK): 507.3, 50 Burins	(a		person	1
Spectrum Modulation: @121592			49.79 (9)	1
Spectrum Manufactors: 49-27.550			43.00 (0)	
Spectrum Reference Power, (2) CMITE	E .		25.22 4894	
Spectrum Modulation: @ 2 # 6502			46.74 dbc -	
Spectrum Modulation: @ 9 f AFC	E		-F0.79 HBH	
GPRS Call Release Test:			passed	1

Measurement Report Rohde & SCHWARZ



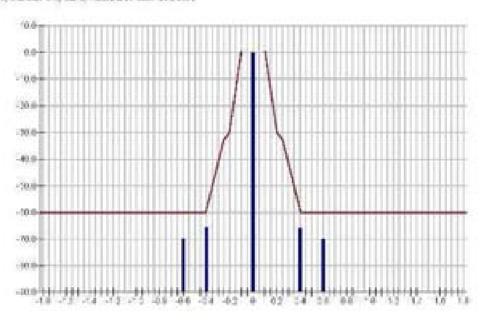
Annex: Spectrum due to Switching (SPSK)

Channel CTG, Bell Clock 2



Annex: Spectrum Hue to Modulation (SPSP)

Gammer It, Change of KIS, Start S. Platereness Power 24 & eding



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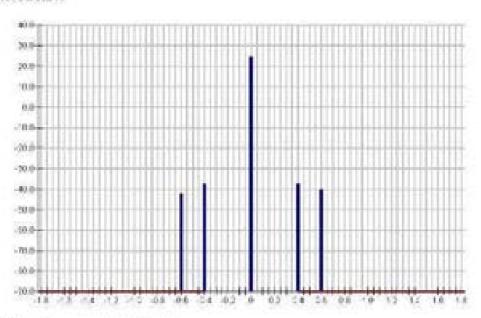
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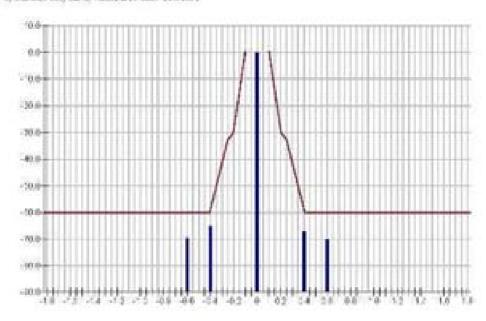
Annex: Spectrum due to Switching (SPSK)

Channel CCI, (Red Closel 2)



Annex: Spectrum Hue to Modulation (SPSP)

Gammer It, Channel 661, 53e13. Finiterency Power 24.6-eErs.



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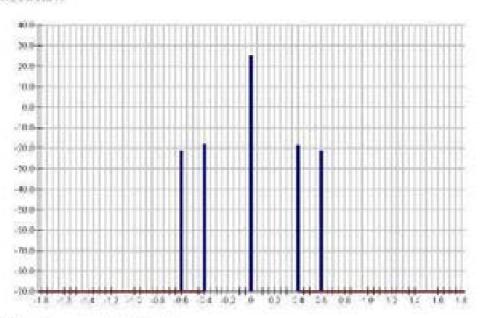
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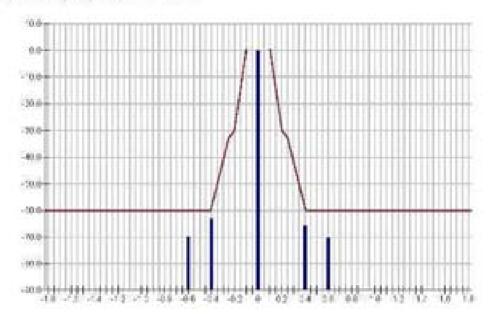
Annex: Spectrum due to Switching (SPSK)

Channel BN, Box Cook 2



Annex: Spectrum Hue to Modulation (SPSP)

Gammer It, Channel Britt, Start & Robinson's Power 18-2 office.



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WCDMA850/1900MHz mode result

Measurement Report



Gownston: Sunday, 94ry 20, 2011, 12-47, 50 PM. CMU Ment: Panas & Science: Cast / 2024 Y NOS 2009 DC 11 Hotel VE AS BINDS_BIT BITTING H, EXT. BETWENG SERVICE THE BITTING HORSE COPROC, FULL, BUT BITTING H. Options: WEED KKEN HENDEN JUZZENDEN KANNEN NOEM BELIEFEN HEN KEN KEN KONEN BERKEN KON KON KON DER KON KON DER KON KON DE RESIDENT/SELVER PROCESSOR MEDIANS AND MEDIANS MEDIANS MEDIAN RESIDENCES AND PROPERTY CONTINUES AND A 256 429 663 AUGUST BY AUSTRALIA STRAIGHT Shortcut: Lower Limit Upper Limit Heastweet Value PSF Test Name and Condition Opinioni Plant V, Channo Coroli 4363/4532 (William SC 6166), WWW. WARRA (WOLLD 27/4.3 IIII PORDH -2.30 (III, PISON -2.30 III, SISON -8.30 III) PODROM -5.30 (III, SI-COPOM -5.30 III) PICH (BUILD) WE WON IN THE SPECIAL CHARGE HOUSE SE, SPECIAL SPECIAL CHARGES AND AN 200 Y, MICC Y, DAD & CHOTHAN FIRST KEY MAN DELIVE, THE CASE MANY 2: COME ORD Character Condition Call to Mebber: second. Open Loop Power (Citt Process): @ -02:57-80/9,063 33.10 dBm -16.10 dBm 47.75 dille Ct. Channel 4397, Alternatives (native 0.27 0.2 dB, Arrang Ag., No. UE Plants Clean 2 Maximum Birth Payers 21-00 diller 25.00 dibes 22.82 office DC CRYUNG/6367_Advention (NOTUS IT 21/6/2 titls AreasyAs), 30: -50.00 ettim Missimum HMS Private 49.23 (50) ZK Chwoni CSSF, Administra pulcus di 27 G 2 dill. Avenigas, 301 ACUR FF TOKA; 646 Chay (Annual Vining) AGLR Channel 2 (RMS): 43.00 elle 48.54 dile ACUR Channel / (RMS) 43.00 (8) 43,02 (0) **ACLR Channel +1 (RMS)** 433.00 (804) 4531 (0) ACLR Channel 42 (RMS): 43.00 465 A&28 (88) Occupied Dandwitth: 5.00 MHz AUT MILE EX Change 4307, Alternation (NODE 2.27 & 2.5% Annual A.; NO RAC Chan Contrader Mark product. Margin to-8:5 ... to-52.5 WHz 10.04 (0) Margin to 7.6 ... to 8.6 MHz 10.10.10 \$55 dill. Morgin to 4.0 ... fo 7.6 Mrks Mangin No-ZiS ... Ye-3IS MHS 0.000 ARE 455 600 600 Margin N:+25 ... N:+3.6 MHz 23.36 (40) 0.50 (8) Mangin for 4.0 - for 7.6 Miles 200 48 14 86 66 Mangin for Till ... for 0.6 Miles 600 48 10000000 Mangin New O.S. New 121 S. Milela DE CHARMO 2297, Altinuschen jestisse († 27 c.) 188, Austraphy. 10, UE Resis Claire († 21.00 dBm 25.00 dBm 22.37 diles CK Chernit 6407, Attenuaten (m/Cki) 0,27-0,2 dB, Anangary, 10 -50.00 pilm Minimum RMS Power. da 37 other

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Measurement Report Rohde & SCHWARZ

Text Name and Condition	Lower Limit Upper Li	mit Measured Value	PI
CK Channel 4757, Atlantial and Joshid (17/47 III), Avangag	Ni .		
ACURER ROSEAC 840 COSA SANTING KARASA			
ACLR Channel 3 (RMS):	43.00 d	0c 42.00 olic	V
ACLR Channel 4 (FMS):	J 43.00 d	84. 39.23 obc	1
ACUR Channel +1 (RMS):	43.00 d	De 4254 me	1
ACLR Channel 42 (RMS):	-43.00 d	6c 67.25 dbc	1
Occupied Bandwidth:	6.00 Mi-	4.00 MHz	1
CK COMMITTEE ADMINISTRAÇÃO (CZ/GZ/DE AMINGAS)	50,640 Otes		
Emission Hask:		passed	10
Mangon No-ItiS To-TZ 6 MHz	0.00.46	4.00 (0)	Т
Margin fo-73 _ fo-85 MHz	000.00	4.56 (0)	Т
Margin fc-4.5 _ fc-7.5 MHz	000 eB	8.15.69	Г
Margin to 2.6 to 3.6 MHz	000 48	7.65 (4)	Т
Storgen for 2 6 for 3.6 504x	500 dB	11.01 66	
Margin fer 4.0 fer 7.5 Marg	.000 48	-10.00 (0)	Т
Margin N:+T.6 N:+0.6 384g	000 dS	12.49.40	Т
Margin for 6.6 for 12.6 Mrie	500 48	7111640	Г
Cl. Channel 1990; Alternative publishin 27/02:dll, Arranging	30; U.C.Pease Class 3:		
Maximum PMS Forme:	21.00 dBm 25.00 dB	22.25 (60)	10
DC Channel code; Atlantiques (NJCNS 0.2/ 0.2 db; AvelugAg.	70		
Minimum RMS Pusser:	-90.00 et	5m -56.32 dDm	1
DL Oberes 2000, Attenuates (n/Del 0:2702:db Artenyky	36	A Section of the Sect	
ACCUREFACELY, 640 Chips (Name) Vetwer			
ACUR Channel & (RMS)	-43.00 d	0c 63.00 and	10
ACLR Channel 4 (RMS):	40.00 a	86 40.01 mms	1
ACLA Chavesi +1 (RMS):	33.00 #	5¢ 49.00 v0 c	1
ACLP Channel +2 (RMS):	41.00 6	5e 47.10 vms	1
Occupied Bandwidth:	6.00 Mi	4 19 1642	1
CE CRANACASTO, ARREVISCAS (MICHO D.27/G.2 CE, ANNUASA).	Ni dali Ones		
Emission Hask:		person	14
Margin fo.6:5 fo.13.5 MHz	000 eR	-A16-46	
Margin fo 7.6 fo 6.6 Mrsz	909 69	0.40,40	Т
Margin fc-4.0 fc-7.5 MHz	0.00 dB	434.65	Т
Margin No.26 _ No.0.6 MHz	000 dB	-11.42.40	
Margin for 2.6 _ for 3.6 MHz	900 49	-12.43.49	Г
Margin fc+8.0 _ fc+7.6 MHz	Eb 000	ALATAR	Г
Margin Ne-T E Re-0.4 MHz	E00 #8	713.67:401	
The Contract of the Landschild Contract	The State of the S		-
Margin for 8.5 _ for 12.5 Mins	6.00 48	-13.F2 46	

Operating Bland is, Changes 20,7.3, 8992/9992, 797 Leave 190 6 offers, Alterpretises And Oct. 9, 27, 4,3 (8) POPOH 2 XIAN PACK 420 III, SIGN 430 III, POOPOH 630 III, SIGNOTO 430 III иси в эсие, кои в эсие, отвонуван приложе, отконолосующих слува MOD T, MACO T, LIAC T CHERNOL FINC HEST MINE DURIN, THAT LOSS MINGLE SHOWN DRO-

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Measurement Report Rohde&schwarz

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	P
(Serial ASAZIA)				
Call to Metale:			persent	1
Open Loop Power (Call Process): (0 -00:00-00%) (00)	-33.10 dilm	-16.10 dilim	-20.40 d Dec	1
DC DTM-MC2402, ADMINISTRAÇÃO D 2/42 DE AMERÇÃO	30 UE Pearly Class 3	in the same of		
Maximum RNS Power:	21.00 dtlm	25.00 dilm	22,23 dBM	1
DE CHARACTIONS, ATHRIVANIA PROTOS (1:27-0.2 SS; AHRISSAS)	50			
Minimum RMS Power:		40.00 dBm	-60.87 dBm	1
DC Chronicalitz, Atlenuiden (ni/Did 0:21 62 dl), Arengas	50			
ACUST FF TON W, 600 Chips you vege Veneral				
ACUR Channel -2 (1995):	Ľ.	40.00 dbc	44,00 604	1
ACLR Channel 4 (RMS):		-55,00 6000	40.41 (00)	1
ACUR Channel +1 (RMS):	le contract	1 40.00 dbc	41.46 (0)	1
ACLR Channel +2 (RMS):	E	40.00 (60:	82.29 elle	1
Corupted Randeldth:		6.00 MHz	4:30 5642	1
CK Characters), Assences yearing is 27 C.2 (III), Averaging	N) RACIONAL			
Enledon West:			person	1
Margin fe-8-8 fe-12-6 MHz	0.00 48		4128 48	Г
Margin fc-7 & fc-8 & Write	600 db		-11.26 46	
Margin No-4-9 No-7-5 MHz	20049		(4)84(68)	
Mangin No-2.6 No-2.6 MHz	000 68		14.05.00	Г
Mangin fc+2.6 fc+3.6 MHz	000 08		10.71 (0	
Margin for 4.0 for 7.4 Mrs.	0.00 (65		240,000	Г
Margin for T.6 for 0.6 MHz	804.48		-7.00 etc.	
Margin fic+6.6 fic+12.6 NHs	000 48		itaties.	
DC DRAWCOOK, ARMONIAN PUDIO 0:27-0:2-08, ANNUAL	30, UE Please Chin Z.			
Maximum RMS Power:	21,00 (684)	25.00 dBm	22.42 ottos	1
DE CRANKEZZENC ARMANINA PARCIE (E.Z./ G.Z. EE, ANNISAS).	10			
Minimum RMS Power:	E 6	-50.00 attim	-84.25 dDec	11
CE CRANNESCO, Alternates (MONGO 27 & 2 SE Annaya).	30			
ACCEPTATION OF THE STATE OF THE				
ACLR Channel & (RMS):	1	43 00 dis-	64.69 dbs	1
ACLR Channel /I (RMS):		23.00 mt	20.00 VB4	1
ACLR Channel +1 (RMS):		1 -33.00 and c	-01.40 obc	1
ACLR Channel 42 (RMS)	E	45.00 (tbc	4827 dbc	1
Occupied Bandwidth:		1 4 00 100	# 55 Mee	1

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Measurement Report Rohdesschwarz

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	PE
CK Etherse/2006; Attenuiven (N/Clad) (1:7/-0.7 dtl. Aveng/k)	30,640 Oves			
Epitedon Mask:	-		pener	1
Margin fo-IIS _ fo-II2 8 MHz	000 dB		-10.80 460	
Margin fo 7 S fo 8.8 MHz	200 68		10.49 60	
Margin No.40 _ fe-7.6 MHz	000 dB		4.00 (0)	Г
Mangin No-2.6 _ No-3.6 MHz	0.50 (6)		-7.63 (6)	Г
Margin N=2.6 N=3.6 MHz	0.00 dB		4.76 (6	Г
Mangin for 4.0 for 7.6 MHz	800 48		4.85 (8)	
Margin for T.S for 6.6 Meta	500 eth		8.81 (8)	
Mangen for Bill for 12.6 Mile	0.00 40		434.00	
CC Cherus/23/30, Abenuelses (N/Out) 0.37/6/3/08, Arreita/La	50, UE Plent/ Costs 2	10000	Paragraph of	
Maximum RNS Power	21.00 dBm	25.50 dBm	22.40 diline	1
CK Diseas/2008; Alexander portico (12/4/2018; Averaging	50			-
Minimum RMS Pener:		40.00 ethm	A6.87 40m	1
CK CROKEN 2018), AMERICAN PRICES (F.ST-C.2-18), AMERICAN	N	120 45-1		
ACURIFF GOOM, 640 Chips (Average Virtual)				
ACLR Charmel & (RMS):	10-10	43.00 dBs	41.66 dbs	1
ACLR Channel -1 (FMS):	D 02	-33.00 d0c	-84.69 ell-c	1
ACUR Channel +1 (RMS):		400,00 ellis	41.56 ethc	1
ACLR Channel +2 (RMS);	-	403,000 dible:	44.67 dbc	1
Occupied Bandeigth:	S	6,00 MHz	4.30 9842	1
DE Charaction Attenuates (n/Cut 0.2/ 0.2 db Arisingle)	NO REAL CHAIR	o Placelia		
Emission Hask:			peace	12
Margin fc-818 fc-12.6 MHz	000 08		4.41 (6	
Mangin fo-E.S fo-8.5 MHz	000 48		4.37 (8)	
Mangin to 4.0 _ to 7.6 MHz	900 dill.		- T29.88	
Margin No.25 Fe-3.5 MHz	000 dB		-1.30 (0)	
Mangin for E.S for 8.5 Mbtz	500 dB		4.25 (6)	
Margin No.4.0 No.7.5 Mb/z	0.00 48		75.00 (40	
Margin No-T 6 No-6.6 Miriz	500 dB		4.81.46	
Margin for-816 for-12.6 Miriz	000 dB		-8.00 stll.	
Call Release Test:			named	10



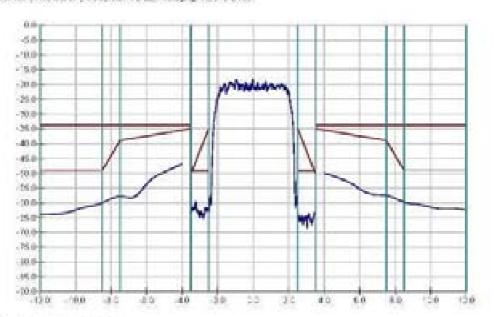
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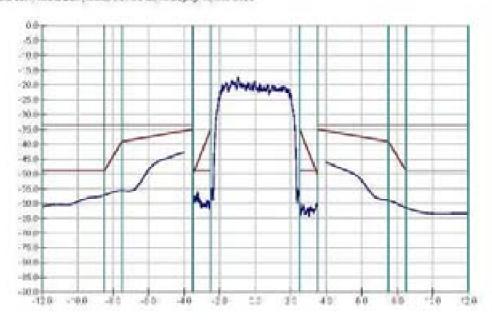
Annex: **Emission Mask Graph**

CC Charact 4397, Attenuated (ACOUGTS 27-G 2 CB), America 2, 15, 640 Chies.



Annex: Emission Mask Graph

DL Cliente 2407, Attenuation proCutt 0.27 6.2 dtl, Americky, 10, 840 Orani





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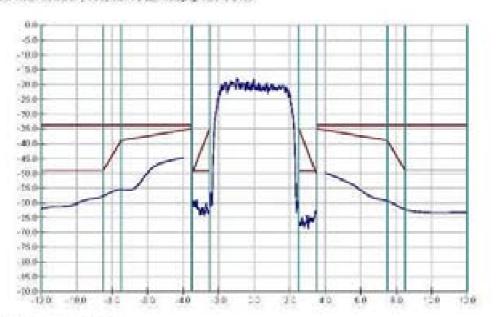
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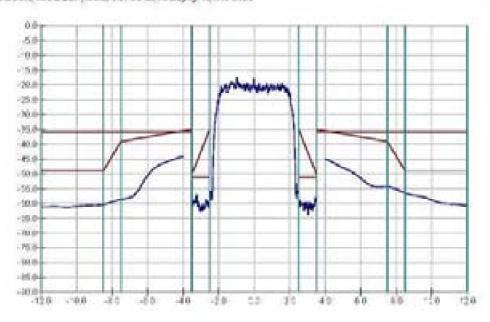
Annex: **Emission Mask Graph**

CC Characterist; Attenuates (ACOUGTS 27-G 2 CB, Arrang EQ, TO, 640 Ches.



Annex: Emission Mask Graph

DL Olivon/2002, Alterusive pri/Dull 9:27/62 dB, Arranging, 10:840 Ones





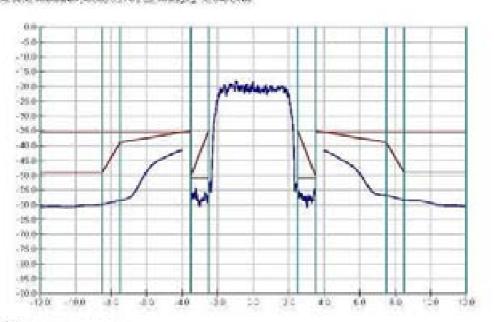
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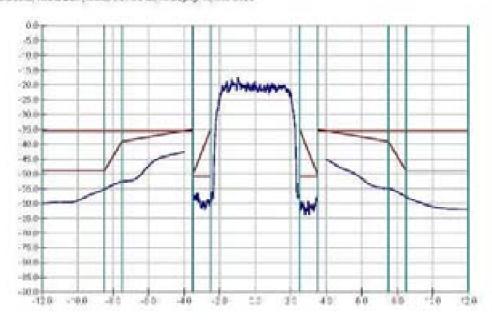
Annex: **Emission Mask Graph**

DC COMMISCADO, ADMINISTRA (NODIO D. 27 G.2 CB, AMBRIGAZ, N. 640 CN es.



Annex: Emission Mask Graph

DL Olivers (200), Alternation pri Out 9.2 / 6.2 db, Arranging, 10, 840 Ones



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HSDPA 850/1900 mode result

Measurement Report ** ROHDE&SCHWARZ



Sunday, May 29, 2011 19:54:20 PM Operator: CMU Meets Rphdw&Sinhwarz,CMU 200-1105 0006/02,111/076,V5-55 Cottons: BIT/BIZ BIT/BZTUW NEBH ERZYWIN BSHVW NEBSHVW SSHVW SHE ODPROC. FULL BID BIG BIK POMOIA WCDC408,K18,K20,K21,K22,K23,K24,K27,K28,K28,K42,K45,K45,K45,K46,K56,K57,K56,K58,K60,K61,K62 HES, KINS AND AND AND AND ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED AS 17 FMAN INVALIDATION ASSESSED. relief Sequences BASIC-POWEFICHSOPIU Shortcut: Lower Limit Upper Limit Measured Value Test Name and Condition Coursing Band Y, Channel DLAS, 4357/4132; RF Level -50 ft dilm, Attenuation (In/Out) © 2 / G 2 dill P-CPICH #-23 db; P-SCH -10 23 db; S-SCH -10 23 db; P-CCPCH -7 23 db; S-CCPCH -7 23 db PICH - 10 23 dd, AICH-10 23 dd, DPDCH/Osal 43 - 12 23 dd, DPCCHDPDCH Offwl 0.00 dd MCC 1, MNC 1, LAC 1 Califype RMC 64 kbes DL/UL, Test Loop Mode 2 AMSI: 001010123456063, Sensi Number: 35703002-612614 Call to Mobile: person DL Channel 4357, Attenuation (IN/Dub) 0:27/0/2 dB, Averaging: 10 Maximum RMS Primer: 20.30 dB/m 25.79 dillos 22.06 at m DL Channel 4357, Atlanuation (In/Dut) 0.27.0.2 dt), Averaging: 10 49.00 diller. 48.67 diller DL Channel 4387, Afrancation (In/Out) 0.27.0.2 dB, Avelaging: 10 ACER FF SOBIA, 640 Chips (Average Values) ACLR Channel & (RMS): 48 00 484 Add Str. of the ACLR Channel 4 (RMS): 433,00 (684) 43.22 (0): 45.10 (0)4 ACLR Channel +1 (RMS): -33.00 dBd ACLR Channel +2 (RMS): 43.00 dBd 64.84 ethic 6.00 MHz 4.18 MHz Di, Channel 4357, Alternation (In/Out) ili 2/ ili 2 dill, Avelaging: 10, 640 Chas **Contration Mask:** persed. Margin fe-8.5 .. Fe-12.6384x 10.19 (0) Margin fc-7.5 _ fc-8.5MHz 40.14 (0) Margin fc-4. fc-7.5MHz -51 Pel-485 Margin fo-2.5. Fo-3 Skill-te 4.90 (0) Margin fo+2.5...fo+3.5MHz 13.00 (8) Margin fen4_fex7.6MHz 73.53 68 Margin for 7.6. for 6.5 MHz Margin for 8.5 .. for 12.5MHz 431.40 DL Channel 4407, Alteruation (In/Out) 0.27 0.2 db, Averaging: 10 Maximum RMS Power: 20.30 dBm 25.79 dbm 22,00 albin DL Channel 4407, Afrenuation (In/Out) () 27 0.2 dB, Averaging: 10 Minimum RMS Power. 49.00 d0m 46.37 diller

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Measurement Report



	Lower Limit	Upper Limit	Measured Value	Pi
Dt, Channel #437, Atlehuel on (In Out) (I 27 8 2 d8, Averaging 10				
ACLERIF TXXXV, 640 Chips (Average Veloci)*				
ACLR Channel -2 (RMS):		43.00 eBc	42.00 mbs	1
ACLR Channel -1 (RMS):		-33.00 olic	-39.50 dBc	1
ACLR Channel +1 (RMS):	k name	-33.00 e8e	42.83 dbs	4
ACLR Channel +2 (RMS):		-43.00 dB4	44.40 (84)	
Occupied Bendwidth:		5.00 MHz	4.17 MHz	ú
DL Channel #607, Attenuation (In/Out) 0.27.0.2 dll, Averaging: 10, 64	0 Char			
Emission Mask:			passed	
Margin fc-8.5_fc-12.5MHz			4.90 mb	
Margin fe-7.6fe-8.5MHz			479.46	Г
Margin fc-4. Jc-7.5MHz			4.36 (0)	П
Margin fc-26_fc-3.6MHz			6.83 (6	
Margin fo+2.6 _ fe+3.6MHz			-10 dT dB	
Margin Fe+4_Fe+7.5MHz			-11.54 (0).	П
Margin fo+7.6_fo+8.5MHz			-10.60 etb	
Margin Fe+9.5 Fc+12.6MHz			-10.89 WB	П
DL Channel #450, Attenuation (In/Out) 0.27.0.2 db, Averaging 10				
Maximum RMS Power:	20.30 d0m	25.70 dtlm	22.06 obm	1 .
Dt. Channel 4450, Altamoston (In:Out) 0.27.0.2 dB, Averaging. 10				
Minimum DMS Proper				
million role rolls.		49.00 d0m	-88.19 dDm	14
		-40:00 dBm	-88.19 dDm	
Ol, Chamel #455, Atlanuation (In-Out) (I 2 / I) 2 (II), Averaging: 10		49:00 dBm	48.19 dDm	
DL Channel 4456, Atlanuation (In-Out) 0:27-0:2 dB, Averaging: 10 ACLIF FFTIODW, 640 Chips (Average Values)		-40.00 dBm	48.19 dBm 43.70 dBc	VI.
Di, Channel #455, Attenuation (IniCut) 0.27-0.2 db, Averaging: 10 ACLIFFETO(BW, 640 Chips (Average Yelunt) ACLIR Channel -2 (RMS);				
Di. Chamel 4456, Atlemation (In-Out) 0.27-0.2 dtl. Averaging: 10 ACLR FFTO(IW; 640 Chars (Average Values) ACLR Channel -2 (RMS): ACLR Channel -1 (RMS): ACLR Channel -1 (RMS):		-43.00 s0c	43.79 elle	
DI, Chamel 4455, Atlenueton (In-Out) 0.27-0.2 db, Averaging: 10 ACLR FFTIODW, 640 Chare (Average Yellers) ACLR Channel -2 (RMS): AGLR Channel -1 (RMS):		-43.00 stbs: -33.00 etbs:	43.70 dSc 41.33 dSc	
Di, Chamel #455, Attenuels;n;(In:Out) ti 2/02 dtl, Averaging: 10 ACLR/FFTICOW, 640 Chare (Average Values) ACLR Channel -2 (RMS): ACLR Channel -1 (RMS):		-13.00 eBc -33.00 eBc	6375 dSc 41.33 dSc 44.71 dSc	
Di, Channel 4456, Atlenuation (In-Gut) 0.27-0.2 db. Averaging: 10 ACLIF FFTO(BW, 640 Chair (Average Values) ACLIR Channel -2 (RMS): ACLIR Channel -1 (RMS): ACLIR Channel -1 (RMS): ACLIR Channel -1 (RMS):	NONEX.	-43.00 eBc -33.00 eBc -33.00 eBc	6370 dSc 41.33 dSc 44.71 dSc 66.71 dSc	
Di, Chamei 4455, Atlenueton (In-Out) ti 2 / 0.2 dtl. Avenaging: 10 ACLR Chamei 2 (RMS): ACLR Chamei 2 (RMS): ACLR Chamei 41 (RMS): ACLR Chamei 42 (RMS): ACLR Chamei 42 (RMS): ACLR Chamei 43 (RMS):	O Chest	-43.00 eBc -33.00 eBc -33.00 eBc	6370 dSc 41.33 dSc 44.71 dSc 66.71 dSc	
Ci, Chamel #456, Attenuelsin (In-Out) ti 2 / 0.2 dtl, Averaging: 10 ACLR FFTCOW, 640 Chare (Average Values) ACLR Channel -2 (RMS): ACLR Channel -1 (RMS): ACLR Channel -1 (RMS): ACLR Channel -2 (RMS): CCC Channel -2 (RMS): Cooupled Bandwidth: Ct, Channel #456, Attenuelsins (In-Out) ti 2 / 0.2 dtl, Averaging: 10, 64	O Chest	-43.00 eBc -33.00 eBc -33.00 eBc	6370 dSc 41,33 dSc 44,71 dSc 66,71 dSc 4,17 MHz	
Di, Chamel #456, Attenuelsin (In-Out) 0.27-0.2 dB, Averaging: 10 ACLR FFTIODW, 640 Chare (Average Values) ACLR Channel -1 (RMS): ACLR Channel -1 (RMS): ACLR Channel -1 (RMS): CLR Channel -2 (RMS): Cocupied Bandwidth: Di, Channel #450, Attenuelson (In-Out) 0.27-0.2 dB, Averaging: 10, 64 Seriasion Mask:	i) Cher	-43.00 eBc -33.00 eBc -33.00 eBc	6370 dBc 41.33 dBc 44.71 dBc 46.71 dBc 4.17 MHz	
Di, Channel #456, Attenuation (InrOvi) til 2782 dtl. Averaging: 10 ACLR/FFT000W, 640 Chans (Average Values) ACLR Channel +1 (RMS): ACLR Channel +1 (RMS): ACLR Channel +2 (RMS): CCR Channel +2 (RMS): Di, Channel #456, Attenuation (InrOvi) til 2782 dtl, Averaging: 10, 64 Emission Mask: Margin fo-8.5fo-12.6MHz	0 Oher	-43.00 eBc -33.00 eBc -33.00 eBc	6370 effic 41.33 effic 44.71 effic 66.71 effic A 17 MHz passed -7.10 eff	
Ci, Channel 4456, Attenuation (In-Cut) ti 2 / 0.2 dtl. Averaging: 10 ACLR Channel -2 (RMS): ACLR Channel -1 (RMS): ACLR Channel -1 (RMS): ACLR Channel -1 (RMS): ACLR Channel -1 (RMS): Cocupled Bandwidth: Ci, Channel 445d, Attenuation (In-Cut) ti 2 / 0.2 dtl, Averaging: 10, 64 Emission Mask: Margin fo-8.5 _fo-12.6MHz Margin fo-8.5 _fo-8.6MHz Margin fo-8.5 _fo-8.6MHz Margin fo-4fo-7.6.MHz	O Chest	-43.00 eBc -33.00 eBc -33.00 eBc	6370 dBc 4133 dBc 4471 dBc 6671 dBc A 17 MHz passed 7 55 dB	
Ci, Chamel #455, Attenueton (In-Cut) ti 2 / 0.2 db, Averaging: 10 ACLR Channel -2 (RMS); AGLR Channel -1 (RMS); AGLR Channel -1 (RMS); AGLR Channel -1 (RMS); CACLR Channel -1 (RMS); COLR Channel -2 (RMS); Cotupled Bandwidth; Ci, Channel #455, Attenueton (In-Cut) ti 2 / 0.2 db, Averaging: 10, 64 Emission Mask; Margin ft-415_fc-12.5MHz Margin ft-415_fc-815MHz	0 Cher	-43.00 eBc -33.00 eBc -33.00 eBc	6370 dBc 41,33 dBc 44,71 dBc 44,71 dBc 4,17 MHz passed 7,10 dB 2,55 dB 0,36 dB	
Ci, Channel 4456, Atlanuation (In-Cut) ti 27 8.2 dtl. Averaging: 10 ACLR FFTICOW, 640 Chans (Average Values) ACLR Channel 41 (RMS): ACLR Channel 41 (RMS): ACLR Channel 41 (RMS): CC Channel 42 (RMS): CL Channel 4450, Atlanuation (In-Cut) ti 27 8.2 dtl, Averaging: 10, 64 Emission Mask: Margin fc-6.5fc-12.6MHz Margin fc-4fc-2.6MHz Margin fc-4fc-2.6MHz Margin fc-4fc-2.6MHz	In Ches	-43.00 eBc -33.00 eBc -33.00 eBc	6370 dBc 41.33 dBc 44.71 dBc 46.71 dBc 4.17 MHz persed 7.10 dB 7.50 dB 0.36 dB	
Di, Channel 4456, Attenuation (In-Out) til 2782 dtl. Averaging: 10 ACLR FFTDODW, 640 Chans (Average Values) ACLR Channel -1 (RMS): ACLR Channel -1 (RMS): ACLR Channel -1 (RMS): Cocupled Bandwidth: Di, Channel 455, Attenuation (In-Out) til 2782 dtl, Averaging: 10, 64 Emission Mask: Margin fc-0.5. Jo-12.6MHz Margin fc-0.5. Jo-2.6MHz Margin fc-2.5. Jo-3.6MHz Margin fc-2.5. Jo-3.6MHz Margin fc-2.5. Jo-3.6MHz	0 Over	-43.00 eBc -33.00 eBc -33.00 eBc	6370 eBc 41.33 eBc 44.71 eBc 66.71 eBc A 17 MHz passed 7.10 eB 0.30 eB 0.47 eB	
Di, Channel 4456, Attenuation (In-Out) til 2782 dtl. Averaging: 10 ACLR Channel 4 (RMS): ACLR Channel 4 (RMS): ACLR Channel 41 (RMS): ACLR Channel 41 (RMS): ACLR Channel 42 (RMS): Cocupled Bandwidth: Di, Channel 4456, Attenuation (In-Out) til 270 2 dtl, Averaging: 10, 64 Emission Mask: Margin fo-0.5 _ fo-12,5MHz Margin fo-2.6 _ fo-3,5MHz Margin fo-2.6 _ fo-3,5MHz Margin fo-2.6 _ fo-3,5MHz Margin fo-4.5 _ fo-3,5MHz Margin fo-4.5 _ fo-4,5MHz Margin fo-4.5 _ fo-4,5MHz	IO Chest	-43.00 eBc -33.00 eBc -33.00 eBc	6370 dBc 41.33 dBc 44.71 dBc 66.71 dBc 4.17 MHz passed -7.10 dB -2.55 dB -0.36 dB -0.47 dB -14.05 dB -13.67 dB	

Operating Band II, Charmel DL/LC 6962/9352, Fiff Lavel -50 II sittin, Atlanuation (In/Dul): 0.7/0.2 dB. PICPICH: 6.23 dB, PISCH: 10.23 dB, SISCH: 10.73 dB, PICCPCH: 7.23 dB, SI-CCPCH: -7.23 dB PICH: -10.23 dB, AICH: 10.23 dB, DPOCHI/Code 6: -12.23 dB, DPOCHDPOCH Other 6: 0.00 dB MCC 1, MNC 1, LAC 1 CwiTipe FMC 64 kgm: DL/UL, Two Loop Mode 2:

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Measurement Report Rohde&schwarz

Text Name and Condition	Lower Limit	Upper Limit	Measured Value	PI
SEG 60YO SCT 2456082 Servict Window 2570/2003/61/614				
Call to Metale:			penned	10
DE CRIMINO PROZ. ADMANDRA (N/ONG R.Z/ R.Z.DR. ANNIBAG. 20				
Maximum RMS Power,	20.30 d0m	25.70 stbm	23.43 dilies	10
CO. CENSUM CREEK, AMERICAN (SURVIN) IS 27 C.2 SE, AMERICAN SO			V	
Minimum RMS Power:	0.00	49.00 dBm	-56.74 dDm	10
DE CRANNES ARCS, Attenuation (NUCLAS IS 27 & 2 dB, Anning A.S., NO.				
COURT COEVE SAL COEVE SHARING VIRGINI				
ACUR Channel & (RMS):		-43.00 dBs:	6472 dBs	14
ACLIF Channel 4 (FBFS):		-300.00 dibe	45.27 464	
ACLR Channel +1 (RMS);		-00.00 60%	41.26 (0):	1
ACLR Channel +2 (RMS):		40.00 eBc	42.29 dBc	1
Docupled Bandwidth:	100	6.00 MHz	4.1T164z	1
Characterist assessment protects 0.27 CO dis Averago, 10 fb	E Ocos			
Emission Mask:			passad	10
Margin No.818 - Po-1258M/s			10.42.40	1
Margin fo T 8 fo ili SMriz			715,200 400	Г
Margin fc.4. fc.7.6MHz	0		441-0	т
Margin Ny C.S., Fold SMINS			17,551.405	
Margin for 2.6 July 3.5 MHz			10.34 (0)	t
Margin for 4. for 7.5MHz			-10.30 eS	т
Margin for T.S., for 0.5 Mirty			4.06-05	т
Margin for 6.6 for 12.6MHz			343458	T
OK CTHANNESSON, REMOVED PROTEST 2/6 2 ST. AVENUA 3. 30				
Naziriye RH1 Possr	20.30 ellim	25.70 otto	20.41 (80)	1 4
CL Chemical Co. American (N/Cold 8.276.7 dt. America), 30				-
Moleum 1945 Payor		49.00 (69m)	68.59 d 5re	10
Z Characterist Assessment to the R 27 2 2 db AssessAs 10				
ROUTE TOLK: 64LC564 Warner Veseu				
ACLR Channel & (RMS)	(i) (ii)	43.00 466	44.16 other	1 2
ACLR Channel 4 (RMS):		33.00 dBs	Ja 74 office	
ACLE Channel +1 (BMS):		-23.00 dBc	2000 404	1
ACUR Channel 42 (RMS)	To the second	-83 00 ethe	42 TT 484	
Occupied Earsheidth:		6.00 MHz	A 19 Metr	1
OX. Charge-Colinic Attenuation Profition D-2716 2nds. Americana. No di-	d Oue			+
Seistian Hank			entered.	1
Shareke facility for 12 SUB-la			3.70 (0)	1
Margin No.7.5 Po-6 SARvity			8.76 (85	Н
Mangin N. 4. N. 7 SMHz			4.72 48	
Marryin fo. 2.6. Fo.2.6MHz			437 (0	
Margin for 2.6 - for 3.6MHz			464 etc.	1
Margin to 4. 4 to 7 fallos			44.0	\vdash
Margin No-76 - No-85MHz			7.51.65	
Managers (ne. of Art., 2007), Artistation			7.75.50	-



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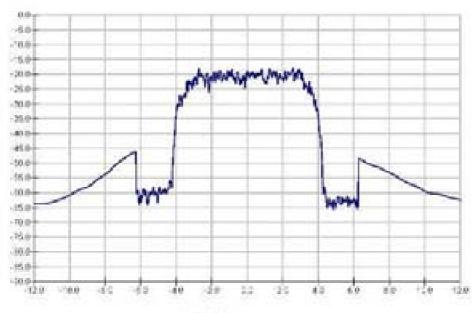
Measurement Report

ROHDE&SCHWARZ

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	Pil
CK COVERSTALLS: ASSESSMENT (MCDUS 0.77-67-08, AHRINGAG, NO				
Maximum RMS Finner;	30.30 dibm	25.70 diller	20.36 (8)10	1
CC DRECNCTEDE ADMINISTRAÇÃO (12/02/08 AMERICA), 20				
Nanimum RMS Persen:	15	49.00 dBm	-88.40 d Sex	1
DE DEVENCES DE AMERICAN PRODUCTO DE 2/42 de AMERICA, NO		12-12-12-12-12-12-12-12-12-12-12-12-12-1		
ACUREF TOPIA: 640 Chox Sharoon Verseur				
ACLR Channel 4 (RMS):	15 51	43.00 dBc	42.47 albe	1
ACLR Channel 4 (RMS):	E : 1	33.00 d0c	39.24 ette	1
ACUR Channel +1 (RMS):		33.00 eBa	41011 MHz	1
ACUR Channel -2 (RMS):	(in	49.00 dibe	44.40 (004	1
Occupied Bandwidth:		6.00 MHu	4.17 MHz	1
CC Chang 1930; Alternates (HCDs) (12/62 (B. Arsus) Kg. 50, 64	©Con.	The second	p	
Emission Hask:	E		passed	17
Stangin fo.4.6 Fo.12.610-is			4.60 (8	Е
Mangin No. 7.6 Fo-4: SMINS			4.82 (8	Г
Mangin No.4., No.7.6MMg			7.31 (0.	
Margin fo 2.6 Fo 3.6MHz			(7.11.40)	Г
Margin for 2.6 . For 3.6 MHz	(i)		10.67.66	
Margin fc+4_3c+7.50thu			19,00 (0)	
Margin for ES_for BSMHz			(4.00)	
Mangin fc+0.6fc+12.6MHz			9.00 (6)	
Call Release Test:			person	1

Annex: Emission Mask Graph

CC CHARACTER, ADMINISTRAÇÃO DE DEZ FOI Z DE ARRESTA, DO GAS CA DE



enge 4 of 7



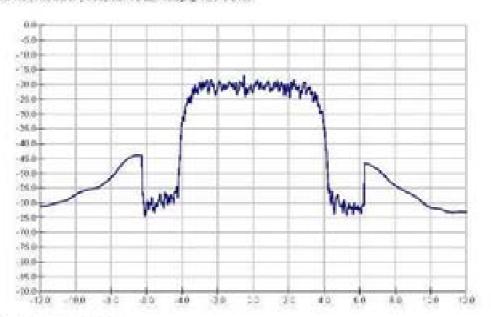
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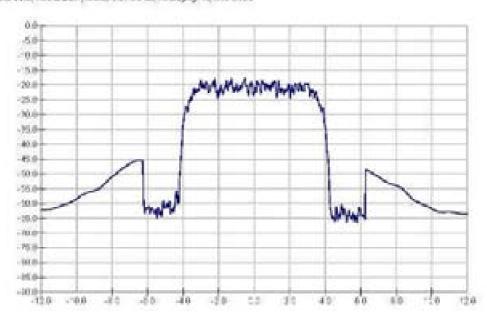
Annex: **Emission Mask Graph**

DE CRIMINE 440Y, ARRANGO PRIORIGITZ/ GZ CB, ANNISSA J. NO 640 OVOS



Annex: Emission Mask Graph

DL Chennifetti, Minusian mcCut 0.2/ 6.2 dt, Arangky 16 840 Orani





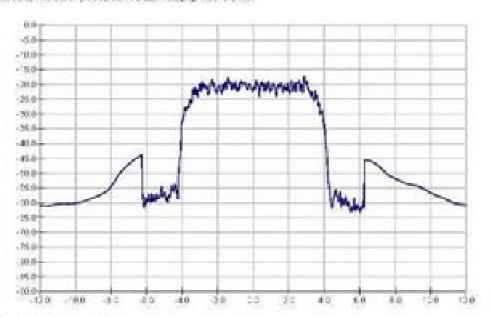
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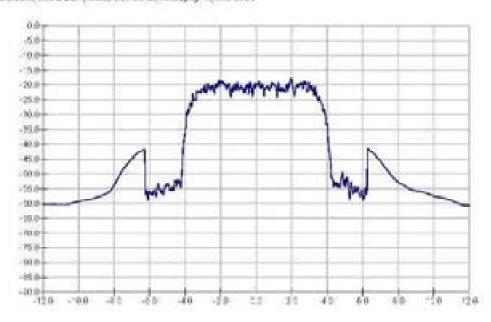
Annex: **Emission Mask Graph**

DE COMMEDITA ADMINISTRAÇÃO DE DESCRIPÇÃO DE AVERGA E NO PAR OVOS.



Annex: Emission Mask Graph

DL Chennic (2000), Artenualien product 0.27 6.2 dtt, Armogicy, 10, 840 Ocean



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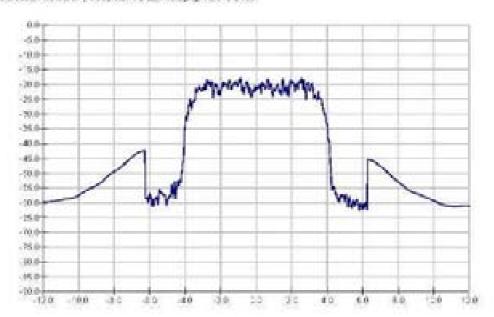
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Annex: Emission Mask Graph

CC Checks (320), Attenuered (400)(0727-02-03), Averaging, 30, 640 Over-



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HSUPA 850/1900 mode result

Measurement Report Rohde & SCHWARZ



Operator	CONTY		5446	N. 58/2 20: 2011, 00:	(9.20)
CMU Went	Potas \$100 km art (Sat / 2025 Y NOS (2028 St.) 174	one ve as			
Options:	#11/012.917.8111will, 641,6624w14.95944	WINA, ROTTING A, BRID, CO.	PROCERULE	COMMENT POMOS	
	WDGCAGG KHEJGRIJZI JUZZUJEKIA KEÇK	28,1728,6182,618,1618,1618	CONTRACTOR HON	NO END REPORTS AND ADMINISTRATION OF THE PARTY OF THE PAR	2
	HED ARE ARE ASSESSED, NOW, WHILE HED ARE NOT	KING KING KENG KENG	0207/07/09	COSCORDO MAZW	
	256 929				
	ndcf				
Segmente	6ABIC PONER(HOUPS, BLACK)				
Shortcut:					
	Test Names and Condition	Lawer Limit	Upper Limit	Measured Value	199
Spaniship Bush	ry, Christino Coros, 435 Nation, 787 Lanuari (N. W. Co.	DOMERSHAM IN	0.072.018		
ACRICH 4.80	68, P-9000-12-00400, S-9000, -71-00-00, P-000F	OH -0 20ME, 0-00PG	11-41.00 (00		
ACH - HIED O	B. AICH -21 STARL DEDCEMOSSI (6: -12.50 a)E, 5	PROCHEROCK ORWAY	60:08		
MOD 2, 4400 3	LAC I CKTYON F				
SAN ONORCE	234 560 KD (2005) (Serve) Normania (2005) (SOCK) (SOCK)				
Call to Mobile:				persed	1
OL ODHUH SIX	57, ADMINISTRA (NATIONE DI 27-4 2 dd. SNOWER N. P.S.	e Cless 5			
Maximum Prov	er HOUPA.	18.80 dBm	25.70 xi0m	\$1.71 offers	1
DE Cherces Vol.	57; Attendien (miCuti It 27 6.2 st), Arenging 15				
ACURETTOE	K, 640 Chpa (Kaynaga Kesses)				
ACUA Channal	4 (rest)	E	40,00 (86)	47.63 othe	1
CLR Channel	r in (Mental);		33.00 ette	42.80 dBc	1
VOLA Channel	(+t (RMB):		43.00 elle	44.59 404	1
AGLIR Channel	(=2 (PMS):	E	40.00 elle	44.00 allie	1
Occupied Bar-	dwidth		6.00 MHz	4.10 1842	1
CC DIVERSIGNATION	R, Athenyster (N/De0 0.27 9.2 db, Armsunu N	COLOCKOS			
Emission Mass	M			posed	1
DE CONFORCION	SY, Allemannes (NATALL III 27 G 2 SIR, BAZINS N. PS	e CWSr3			
Michigan Pew	HEIGUPA:	18.90 dBm	25.70 4004	72.16 dfire	1
CE CHANNE 44	SY, AMERICAN PRODUCTS / G.2 dtt. AVENSAS, SI				
ACCEPTATION.	AC 640 Cheur (Avenage Vireues)				
ACLR Channel	(a (RevS):		43.00 dbs	4133 disc	1
ACUR Channel	CA (PMS):	1	-23.00 dBc	-00.07 eths	V
AGUR Channel	I +1 (PMS):	10	-33.00 d0c	42.00 dSc	1
ACLR Channel	(*E (RMS)	0 0	43.00 dBc	46.45 dBc	1
Scoupled Bare	delate		6.00 MHz	4.10 1047	1
DC Charles (44)	17, лочиличную (н.27,0,0 st. Анельску, 10	del Over			
Distriction Main	i (possed	10
OLDHAND II	SI, Allenviden (m.Ost) (l. 27 d. 2 st), Svitson V. 25	w. Clesc3			
		19.50 dBm	25.70 (80-)		1

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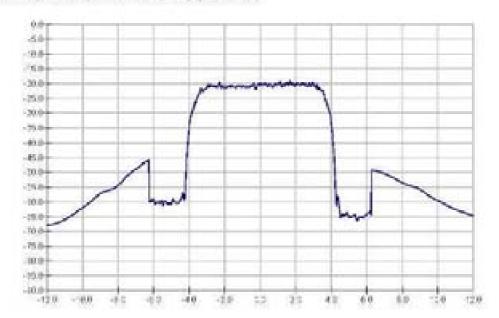
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Measurement Report Rohde & SCHWARZ

Test Name and Condition	Lieuwer Limit	Upper Limit	Measured Value	Pir
CE COMMINENTALS: AMMANDEM PARTIES 0.77-67 ISS, AHEROPO	N			
CCLR FF TOEVC (NO COS) (Average Virtue)				
AOLR Channel 2 (RMS):		43,00 dBc	44.62 oths	V
ACUR Channel 4 (RMS):	45 30	-33.00 dBs	20 63 6Bc	1
ACUR Channel +1 (RMS):		43.00 stile	44.90 (60)	1
ACLR Channel +2 (RMS):	(2)	40.00 dbc	88.29 (85)	1
Docupied Bandwidth:	(i)	6.00 MHz	4.18 Mile	1
CK COMMC4460, Allemanes (M/CH) (1:27-0.2 (B), Arenga (50,640 Cous			
Emission Mask:			person	1
Call Release Yest:			passed	1

Annex: **Emission Mask Graph**

CC Characterist Administration (NOTHER STATES Averaging 10, 640 Occur.



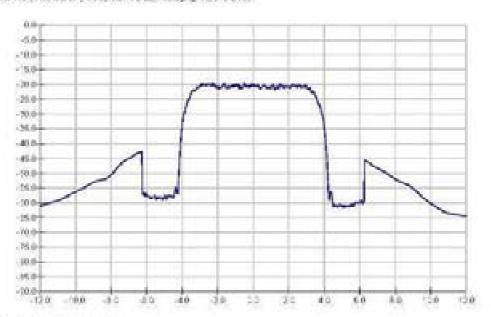
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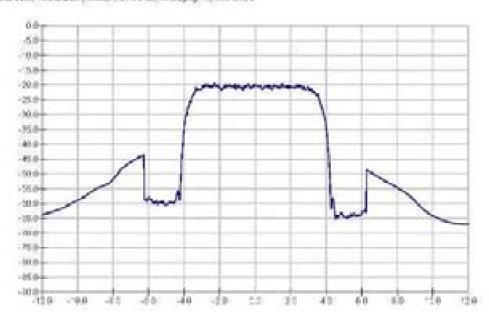
Annex: **Emission Mask Graph**

DE CRIMINE 440Y, ARRANGO PRIORIGITZ/ GZ CB, ANNISSA J. NO 640 OVOS



Annex: Emission Mask Graph

DL Chennifetti, Minusian mcCut 0.2/ 6.2 dt, Arangky 16 840 Orani



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Measurement Report

ROHDE&SCHWARZ

Sunsay, May 29, 2011, 0013 80 FM Gewinter: CMU Ment Flance & Science Cost (2025 Y NOS 2000 DC 171 OTS, VE 65. BY NOTE BY THE HEALTH STATE OF THE STATE OF **Cottons**: KIED JEST JOST JOST, KIRT, KIRD, KIED JOST KIED KIRDLOSTE KEIZIE KIRDE, KEITE JOST, FRANKO OLO CIRRIGIO MALDA 206 629 next. BASIC PROVIDENCE PART SHOOLS Sequence Shortout: Lower Limit Upper Limit Measured Value PF Test Norse and Condition Operating Bases is Charact 2010, 1860/0002, 781 Laurel -50 6 artin; Albert American parties (F.3 / C.2 off) PORCH 4:50 kg, P-Stot -12:50 kg, ISSOL -21:50 kg, PCDROH -2:50 kg, IFCDROH -2:50 kg PICH - FLES SE AICH - SI SOVE DEDCTATOS IN - 1230 WE DECCHORDER ORWAND SE MODER, ARCO J. LAC & CHATGON H. SABL 004/09/01/23/4:60003/Sarval Navirous - 267/02/00/2-01/261/0-24 Cold by Manager passage. ZE DINJUNIZARIZ ARHOJONA (NJOUS B 27-6 2 dB, BUZNER 1, PSW. CINER 3 Maximum Power HOUPA: 18.80 dBm 25.70 dBm 21.47 office. CE Channel 2662, Allemanier (m/Cut) it 2/42 dB, Arranging, 30 ACCREFICE AC 640 Cope Yuanga Yasasa ACUR Channel 4 (FMS) 40.00 (6) 47.22 ette ACLR Channel 4 (FMS): -33,00 etile 4031 (0) ACLR Channel +1 (RMB): 43.00 dBd 49.77 (0) AGLR Channel 42 (RMS): 45.00 dbc \$354 dile Occupied Bandwidth: B DO MINI 4.700 3464 DC DIVERSORDE ARMONDER (NODIO 9:27-9-2-08, AVENUAL DO 949 DO 06 **Electropies House:** DESIGNATION OF THE PARTY NAMED IN DE ONNOMICIANO, ANNOMINA (NATINE IL 27 G.2 SIR, SUMMA I, PICK, CHICA S. Michigan Fower HSUPA: 15.50 dbn 25.70 dbn 21.86 office CE CRIANICZOSC ABINORIOS (NACIOS SI ZVIGO SE ANIXANA SI ACCEPTACENCENCION CONTRACTOR VINNELLA AA AA office 43.00 464 ACLR Channel & (RMS): ACLR Channel / PMSI: 23.00 dbt 27.84 (B) ACLE Channel of (BMS): 20,00 (00) ATT DOLLARS ACLR Charriel 42 (RMID): 45.00 (0) ACRE 400 Occupied Bandwidth: 6.00 MHz 425 1667 20: Churchil 2000; Attenuation purchal 9:374; 3:58; Analogoig; 50; 640 Over protect 21. Channel 2230. Attanualien (nuclea) 9.27-27-59. Goldent 1, Print Claric S. Maximum Forms HOUPA: 19.50 dillen 25.70 dillen

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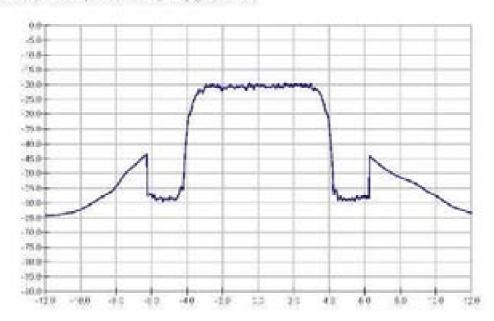
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Measurement Report Rohde&SCHWARZ

Test Name and Condition	Lower Limit	Upper Limit	Measured Value	PF
CE COMMUNICACIÓN AMMANDAM PRODUCTO 27/42 DE AHANDAD	N			
COURTE COEVI, 640 COEZ (Astropa Virtue)				
AOLR Channel 2 (RMS):	0 0	-43.00 dBc	42.24 oths	1
ACUR Channel 4 (RMS):	10 0	-33.00 dBs	47,29 ethe	1
ACUR Channal +1 (RMS):	1	43.00 f0e	48.99 Albe	1
ACLR Channel +2 (RMS):	(2 4)	40.00 dbc	44.77 (84)	1
Docupied Bandwidth:	D 10	6.00 MHz	A. 10 Miles	1
CK CRIMING 2008; Africantes (MICHO) (C.27-C.258); Arengaly	.50 #40 Oves			
Emission Mask:			person	1
Call Release Yest:			passed	1

Annex: **Emission Mask Graph**

ZK CherniCARTZ Adentifica (NZVGZ 67 67 68 Averaging 10 640 Ocea





 Serial#
 1105013(FCC_PCE)

 Issue Date
 May 31st 2011

 Page
 71 of 103

Measurement Report Rohdeaschwarz



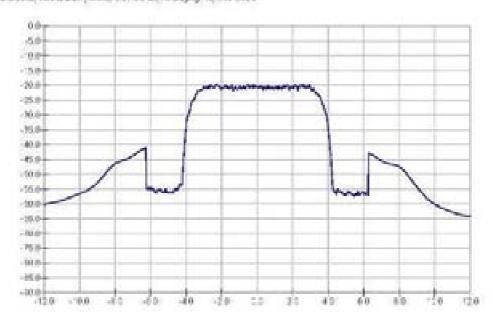
Annex: **Emission Mask Graph**

DE COMMENSOR, ADMINISTRAÇÃO DE DE AMBIGAÇÃO DE PROPRIOS



Annex: Emission Mask Graph

DL Olivon 2332, Allewskie milliel 8.2/62 dl, Arangky, 10,840 Ores



Serial# 1105013(FCC_PCE) Issue Date May 31st 2011 Page 72 of 103 www.siemic.com

Attachment 2 Test Result (Conducted Spurious emission):

WCDMA 850/1900 mode result

Measurement Report



Operator: consists consists the consists of th

CMU Ment: Florida Silviniare: CSZ1 2025 Y NOS 0008 90, Y21 (018, V5 45)

Options: 811/072.377.3771W14,641,607V#74.384V#14,607V#04,005,C0PROC_FRALERZ-618,605,POACT#

WEED KAN HER ZOLIZ NIZ ZAZONIANNIZ NIZ KIZERIA KALIKALIKA KAN KONGENDER KIN NIZ NIZ KIZERIO LI ZAZONI NIZARIZ UNIZ LI KINTANIENIA RIZONIA KIZERIO LI ZAZONIA KIZERIO KIZERIO KIZERIO LI ZAZONIA KIZERIO LI ZAZONIA

post.

legience: SPCRROVS ENRSDIGNACOMA EARTS &

Shortcut:

Test News and Condition Lever Limit Upper Limit Measured Value PF

Committing State V, Committee V, Committee

POPICH - 2,30 kB, PISON - 4,30 kB, SISOH - 6,30 kB, PICCPON - 6,30 kB, SISOPON - 6,30 kB PICH - 8,30 kB, NOH - 8,30 kB, SPOCH / Duki 18 - 10,30 kB, SPOCH / SPOCH / Duki 18 - 10,30 kB,

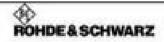
MED 2, MACE 2, LAC ECUCYON AND 12.2 Mon CERU, THE COST Mode 2, SEMIL ORD

Liberary Colonia.

		- Contract	1 2
Call to Mobile:		Passad.	1
UE Sen. TX Spur, Ensissions: P V/G < f < 100 V/G	-13.00 (00:	-79.40 dilles	1
UE Gen. TX Spur. Enriceione: -150 M/2 < F < 30 M/2	-19.00 40+	-64.72 dBm	1
ME Gen. TX Spur, Ensissions: 30 MHz 121013 9 MHz	-13.00 eth-	-73.97 dilex	1
UE Gen. TX Spor, Emissions: 100.7 500: 17 x 7 Grd	-13.00 elle	-47.32 dBm	1
UE Gen. TX Spur, Emmelores: 12 (Jen. < 14.22 / 8 (Jen.	-13.00 (884	-40.00 dbm	1
UE Gen. RX Spur. Emissions: 30 0 M/d (ar 5000 0 ARd)	47.00 etha	47,82 dBrt	1
UE Con. FOX Sport. Emissions: 1000.0 NH-c 75 157500 555	1 47,00 464	-78.94 offer	10
UE Gen. TX Spur. Emissions: 2 Life of a 170 Life	-13.00 +0+	-27.66 dBrs	1
UE Gen. TX Spur. Emissions: 307 kits 17 x 30 kits:	-13.00 484	44.42 dBm	1
UE Gen. TX Spur. Emissions: 30 Mrs < 1 < 527.9 50 c.	-13.09 (8)	40.00 (20)	1
UE Gen. TX Spur. Emissions: SHE FSDQ < F4 GHQ	-13.00 +8+	-63.25 dilm	1
UE Cen. TX Spur. Einsteinen. 3 Sint 4 2 42 75 Geb	-12.00 604	48.02 4511	1
UE Gen. RX fipur. Endesions: 30 o lots: Je. 5000 o Mile.	-57.00 dbs	-85.12 dibes	1
UE Gen. FOX Spor. Emissions: 1000 0 MHz; 75 12750 G 50%:	-47.00 484	-78.75 dfm	1
UE Gen. TX Spur. Emissions: \$160, CFC (2016)	-12.00 eBe	-79.50 dSm	1
UE Con. TX Spur. Emissions: 350 3/d2 < f € 30 3/60	13.00 elle	46.12 diles	1
UE Gen. TX Spur. Emissione: 30 MHz < f < 504 / Mile:	1-12.00 (80+	47.81 dDm	1
UE Gen, TX Spor, Entertone: 100 / 500 1 F11 FG10	1 -13.00 atta	-60.45 dBm	1
UE Gen, TX Spur. Emissions: 13 GHz K / K 22 25 GHz	-13.00 eBe	46.17 dBox	1
UE Gen. RX Spur. Emissione: 30.0500; in 1000.01400;	47.00 (0)	46.02 d line	1
UE Gas, RX Epur, Emissione: 1000.0 HHz /s 12750.0 500:	-000 60	-79.54 diller -	1
Call Release Test:		perced	1

Serial# 1105013(FCC_PCE) Issue Date May 31st 2011 Page 73 of 103 www.siemic.com

Measurement Report



Operator: 000409 (United State of Co. 42.31.762)

CMU Ment: Please Stickwart CSZ1 203 Y NOS 2008 92, Y NOS 255

200 620

noct.

Sequence: GRESTOUS EMISSION/VICTAM-BARTIO

Shortcut:

Test Norwa and Condition Lever Limit Upgar Limit Measured Value PF

Comming Stune II, Chiland Colina, 1860/0002, PET Lamb 40.4 artin; American (ANDLE D. 274.5 dd).
PICPECH - 2,50 all, PISCOC 4,30 all, 5-9004 - 8,50 all, PICCPECH - 9,50 all, 5-00PCH - 8,50 all.

POH BUILD NO. NO. BUILD NO. SPOOM COM TO - 10 SECK, SPOOM SPOOM OR STORES.

MODIE, MACOUS LAC ECHOSperi RMC R2/2 News CERTA, Trust 2 step Mode 2, Sawar CRC.

Characteristics.

Call to Metala-	15	-	parent.	1
Entertain Control of the Control of				
UE Gen. TX Spur, Enrissions: P V/2 F F 4 129 V/2		-13.00 allim	-90.44 dBrs	4
UE Gen. TX Spur. Envisaione: 100 to 2 < r < 30 AFG		-13.00 dBm	48.23 offer	1
ME Gen. TX Spur, Emissions: 30 Afric v Ev 2 Stre-		-18.00 d0m	40.40 dbm	1
UE Gen. TX Spor. Emissions: 1.6%: 574-5879-9892		-13.00 dBm	-56.64 dBm	1
UE Gen. TX Spur, Emissions: 365434A-y <7<1275.0-y		-13.00 ether	-47,30 differs	1
UE Gen. PX Spur. Emissions: 30 0 M/dr de 3000 0 ARds		-\$7.00 d0m	-04.89 dDrs	V.
UE Gen. FOX Spor. Emissions: 1000 0 NHz 75 12750 0 200		-47,00 e0m	45.22 other	1
UE Gen. TX Spur. Emissions: 9 int 114 Ltd int	Tr.	-12.00 s0m	-60.24 diffre	
UE Gen. TX Spur. Emissions: 350 kits 17 130 kits:		-13.00 dBm	49.82 dBm	1
JE Gan, TX Spor, Enviroleme: 30 Mars 414 1 State		-13.00 etter	-64.22 68m	1
JE Gen. TX Spur. Emissions: 3 GHU < 7 < 5057,5 APV	12	-13.00 e8m	41.26 diller	1
UE Gen. TX Spur. Einiesisens: .5025 NHV +2 < 1275 GHz.		-13.00 dBm	-47.64 dillers	1
UE Gen. RX Spor. Emissions: 300 USE in 3300 USE	6	-57.80 dBm	-84.55 dDm	1
UE Gen. FOX Spor. Emissions: 1000.0 MHz 19. 12750 G 50/d:		-47.00 dBm	-40.70 dilin	1
JE Gen. TX Spur. Emissions: 9 km; < r < 129 km;	1	-13.00 ellim	-90.54 diffee	1
off Gen. TX Spur. Emissions: 350 kmb < f < 30 kmb	15	-13.00 ellm	-60.00 diller	1
JE Gen. TX Spur, Emissions: 30 ARX 4747.086		-12.00 dBm	44.32 ((8))	1
JE Gen, TX Spor, Emissions: - 2 lints < 2 < 5/96 c Abso.		-12.00 attin	-48.68 dBm	1
UE Gen. TX Spur. Emissions: 1920 7 kHz +2 < 12 /5 Grz		-13.00 eller	-42.16 4 Dec	4
UE Gan. FOE Spur. Emissions: 30.0400; in 1000:0 Mile:		-87.00 e0m	-83.25 dBm	1
JE Gars, RX Epux, Emissione: 1000.0 thre: (n. 12090/c.20/c.		-67.00 mm	-80.01 dilles	1
Call Release Test:	10		perced	10

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HSDPA 850/1900 mode result

Measurement Report



Operators consists consists and property con

CMU Ident Panas Stirokram CSX1 203 Y 505 0008 00, Y 516 ft, y 5 45

WECCHOOK RHINGSSYLVELAND REPART, REPARE NEW HIS RECOVERED BY AND REPART OF THE RESPONDENCE AND REPART OF THE REPARE NEW HIS AREA OF THE RESPONDENCE AND RESPON

206 (23)

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Sequence: GPCROVS EMSG-O4000PA-EARD ST

Shortcut:

Test News and Condition Lever Limit Upper Limit Measured Value PF Commission State of Commissional Additional States of Action (Annual Andread No. 1974) 208

POROH -525-66, P-50X -7725-65, S-50X -3223-66, P-COPOX -727-66, S-COPOX -7-27-65
POX -7022-05, AVOX -7027-65, OPDOX/2026-65 -1225-66, DPCOX/2004-640-65

2000 Y, MACO E CAC ECICTION AND BY KNOW DEVEL. Tred Cross Model 2.

SARCH 001/07/CX234 600003 (Savas Daumeaur - 2670,200,5 (610,610)

	CARLO SERVICE		11/2		
Call to Metale:		4		pered	1
UE Gen. TX Spur. Einsteistere: PAID 47410	to war		-13.00 dBm	-75.00 dites	4
UE Gen, TX Sport Emissions: 100 H/g < c	20 MHz		-13.00 e0m	-64.72 dBm	1
ME Gen. TX Spur, Emissions: 30 APro 474	943 9 Mg/dr		-18.00 dBm	-73.67 diller	1
US Gen, TX Spor, Emissions: (\$10.2 kD); 1	rerore		-13 00 dBm	-44.33 dtm	4
UE Gen. TX Spur, Emissions: 1 Und < 14.7	278 0AC		-13.00 ether	-85,54 dbm	4
UE Gen. RX Spur. Emissions: 30 0 M/G Ja	5000 0 MRS:		-\$7.00 d0m	-63.06 dBm	1
UE Cars. Fox Sport. Emissions: 1000.0 kbg.	19-12790A-20b		-47,00 e0m	-77.06 other	1
UE Gen. TX Spur. Emissions: \$140 474 ki	to sive:	L.	-13.00 s0m	-74.50 dBre	1
UE Gen. TX Spur. Emissions: 300 arc 4.74	30 APIC		-15.00 dBm	40.56 dbm	1
UE Gen. TX Spur. Emissions: 30 Mrs; < f <	922.9 90°C		-13.09 dBm	44.02 000	1
UE Gen. TX Spur. Emissions: 3/8.7 5/22 *	ry right.		-13.00 st8m	-41.20 dBm	4
UE Den. TX Spur. Einissione: J lint 4 t < t	2 /m GHV		-13.00 d0m	-66.04 dbm	1
UE Gen. RX Spor. Emissions: 300 USE in	Militio o Militi	10	47.00 dbn	-63-54 dilen	1
UE Gen. FOX Spor. Emissions: 1000 0 NAY	In 32750 G Atra		-47.00 dBm	-79.7% dilire	1
JE Gen. TX Spur. Emissions: \$100 CFC1	59 Met.	10	-13.00 elites	-75.00 d5m	1
Ull Gen. TX Spur. Emissions: 350 lets < 44	30 1/60	I.	-13 60 ellen	-66.71 eller	1
JB Gen. TX Spur. Emissions: 30 MHz < 5 ≤	SM / Mile	L	1-12.00 #8m	-69.25 other	1
JE Gen, TX Spur, Enterations: 100 J 5000 4	FIEE Gre	D6	-12.00 attin	-48.58 dBm	1
UE Gen. TX Spur. Emissions: 3 tintr 474.5	275699		-15 00 eBm	485.54 dBm	1
UE Gan. RX Spur. Emissione: 30/04/00 in	Nacio o Mitor		47.00 dBm	-88.25 offers	W.
UE Gars. RX Spur. Emissions: 3000.0 Hive	in 12090yi 50%		1 -47.00 mbm	-70.95 dSet -	1
Call Release Test:				not performed	

Serial# 1105013(FCC_PCE) Issue Date May 31st 2011 Page 75 of 103 www.siemic.com

Measurement Report

ROHDE&SCHWARZ

Operator: conserv Europy, May 26, 2017, 21 C3 Se FM

CMU Ment: Plants Stickwart CSZ1 203 YND 2008 00, 1710 ft, v5 65

Options: BTX012.011.011WHA, 641,607WH14.001WH14.001WG4,000,CDPROC, FULL, 642,608,600,PDACTH

WEED MAX KHEKERINZAN/ZELAZO, KENNEZO, KEREKERIA KELAKELAKERINE, KAD MERDEKERIN KADA KERIKERIA DA JARE KERIKERIA JARE KERIKERIA DA JARE KERIKERIA KERIKERIA JARE KERIKERIA J

200 620

mach.

Sequence: GPCROUS ESISSION/CRISTN BANO 49

Shortcut:

Test Name and Condition Lower Limit Upper Limit Measured Value PF

Commission of Characteria, 186000002, for Laure Georges, American parties of 2742 1889 Propiety George, Propiety 10 20 (8 900), 1922348, Propiety 172746, 8-007001, 7-22 88

PICH - N.22-DLAICH - N.22-VIII, DEDCNYCLOLIG - 12,25 WL DECCHOPQCH DRW 6 67-DI

SECUL, MACC Z, ZAC Z CISTRON PRIC 64 Macc DL/UL, Text Lose More Z

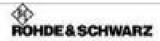
SEDE 001/07/01/23/48/09(2)/SAHACROMENIA - 28/70/29(0)/61/28112

Call to Metale:				person	1
UE Gen. TX Spur. Entissions:	awa creitawa.		-13.00 dBm	-64.72 dBes	4
UE Gen. TX Spor. Emissions:	350 Mg < F < 30 Mg	L	-13.00 el0m	49.32 450	1
UE Gen. TX Spur, Emissions:	30 able of sit filter	10	-13.00 d0m	-40.79 dilex	1
UE Gen. TX Spor. Emissions:	1500c s f x 50360 Mee;	1	-13.00 dBm	-06.36 dbm	1
UE Gen. TX Spor, Emissions:	50549444 ×7×1270040		-13.00 dBm	-47.32 dBm	1
UE Gen. TX Spur. Emissions:	plate kirk ktowe		-13.00 d0m	-62.39 dDm	1
UE Gen. TX Spur. Emissions:	380 k/g < F < 30 MFg		13.00 e0m	-88.00 HDrs	1
UE Gen. TX Spur: Emissions:	30 MHV KEKE 00W	T.	-13.00 si0m	-81 30 d fre	1
UE Gen. TX Spur. Emissions:	3.09K*57K5007.0389K*		-13.00 dBm	451.26 d Det	1
UE Gas. TX Spor. Emissions:	58/25 the exc (2) time		-13.00 dBm	45.26 dftm	1
UE Gen. TX Spur. Emissions:	9 MG KTK 120 MG	-	-13.00 e8m	-84.52 dBm	1
UE Gan. TX Spur. Emissions:	200 (40) 51 520 (40)	L .	-13.00 dBm	40.21 45%	1
UE Gen. TX Spur. Emissions:	303844455188E	D	-13.00 dBm	-82.58 d'Des	1
UE Gen. TX Spur. Emissions:	TONE CECNOSTANCE		-13.00 dBm	-47.66 diller	1
UE Gen. TX Spur. Emissions:	1920 / 654c = 7 < 12.75 G +c	13	-13.00 dBm	40.43 dBm	1
Call Raisass Test:				passed	1

Serial# 1105013(FCC_PCE) Issue Date May 31st 2011 Page 76 of 103 www.siemic.com

HSUPA 850/1900 mode result

Measurement Report



Operator: 0000000 Sunday, May 26; 2011 00 25.13 FM

CMU Ident Panas Stickwart Cost 200 Y Not 2008 92, KN of 6, v5 dS

WECCHOOK RHINGSSYLVELAND REPART, REPARE NEW HIS RECOVERED BY AND REPART OF THE RESPONDENCE AND REPART OF THE REPARE NEW HIS AREA OF THE RESPONDENCE AND RESPON

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Segment SPCROVE EXISTROCATOR/PA-EAST ST

Shortcut:

Test Norma and Condition Lower Limit Upper Limit Measured Value PSF

Opinion of the κ_i Communication and the state of the

PORDY 4,50 kg, P-SOX -12 50 kg, S-SOX -11 50 kg, PCDROH -0 20 kg, S-CCROX -0,50 kg

PICHT-THES GLAICH-THIS VALDED CROCK (CLOSE 6) - 12,30 ML DROCHES QCH ORWING CO.

MODER, ARCOLD AND ECHOPOWER.

Sala: 034990323460003;Sanat Nomber 36703903-6106503-6

Call to Mobile:	40		perent	1
UE Gen. TX Spur, Englastons: PAYS 474 155 Mg		-13.00 d0m	-74.79 dBrs	1
UE Gen, TX Sport. Emissions: 100 M/b < < < 30 M/b		-13.00 e0m	-67.34 differ	1
ME Gen. TX Spur, Emissions: 30 APro 121 912 9 Mor	Di-	3 -13.00 d0m	-73.04 dBrs	1
UE Gen. TX Spur, Emissions: 535.2 521; 171 FGFC		-13 00 dBm	-44.35 dBm	1
UE Gen. TX Spur, Emissions: 1 Grd < f < 22 / 5 Get		-13.00 dBm	-40.24 dbm	4
UE Gen. RX Spur. Emissions: 30 010% is 50000 440:		-\$7.00 d0m	-0.15 dfm	1
UE Can. FX Spor. Emissions: 1000.0 kb-c 7s 15750.0 205		1 47.00 dBm	-79.22 eller	100

DE Channel 4407, Allena Wen yn Gael 0.07 6.0 stil, Switzer I, Pain Ches A

Maximum Power HSUPA:	18.90 464	n 25.70 dBm	21.40 diller	1
UE Gen. TX Spur. Emissions: 19 km < F4 100 km;	17.11	-13.00 dbm	-74.77 ottes	1
UE Gen. TX Spur. Emissions: 300 km < < 30 km	0:	-13.00 e8m	-63.40 dBm	1
UE Gen. TX Spur. Emissione: 3/38-1/57/502.91	49 E	-13.00 dBm	-64.77 dbm	1
UE Gen, TX Spur, Entestone: 545 93/22 575 7 G	re D	-13 00 dbm	-42.16 dDm	1
UE Gen. TX Spur. Emissions: 1 GHC < f < 12 75 G	er P	-13.00 dBm	-64.54 dBre	1
UE Gen. FOI Spor. Emissions: 30,0500; dr 5000	5 ARCs	-67.00 dBm	-47.92 dBH	1
UE Gan. RX figur. Emissions: 3000.0 thro to 325	900 SOA:	3 -67.00 dillm	- Parint of Res	1

ZK. Chrystell 4780; Abertuden (Ni Dio) 0.074 bills, Svibish V, Zhia, Cheb S

Missimum Power HSUPA:	18-80 dSm	25.70 attes:	21.14 dbice	1
UE Gen. TX Spur. Emissions: 9 M C < r < 120 M C		-13.00 dBm	75.79 dBm	1
UE Gan. TX Spur. Emissions: 150 k/d: < < 30 kHz		-13.00 dBm	-83.74 dBm	1
UE Gen. TX Spur, Seriesland: 30 Mer < f < R0 r 1 M/c		-13.00 e8m	-BA-A7 diller	1
UE Can. TX Spur. Emissions: 800.3 L20 + FF F GF0		-13,00 albin	-44.30 dities	1
UE Gen. TX Spur, Entractoria: 1 Entr < F < 12 75 Entr		-13.80 atlan	-85 DA dibre	1
UE Sen. RX Spor. Emissions: 30.0 LDS: In 5000 0 AFS:		47.00 d0m	-67 22 d line	1
UE Gen. RX Spur. Emissions: 1000.0 45-5 75 107000 30-6	10	-47.00 si0m	-79.95 eller	1
Gall Plainease Yest:			presed	1

Serial# 1105013(FCC_PCE) Issue Date May 31st 2011 Page 77 of 103 www.siemic.com

Measurement Report



Operator: conserv Europy, May 20, 2017, 2x Co to FG.

CMU Ment: Plants Stickwart CSZ1 203 YND 2008 00, 1710 ft, v5 65

206 (23)

mitch.

Sequence: GROROUS EMISSIONADAMA BANON:

Shortcut:

Test Name and Condition	Lower Limit Upger Limit	E Managered Value	100	ı

Operating Burner's, Characteristic (MR200M2), DETLANDER'S AMERICA MARCHER (MR000E) P.2 / C. 2 (III)

PCPICH 4.50 (4), P-5031 -1; 50-40, 9-5031 -11:50-46, PCDPCH -0:30-46, S-00P031 -0:30-48

PICHT-THEY SHARCH-THEOLOGY DEDCKYOS SHARL-TEXCHED SPECCHES DEWELDED SIZE

MODIL MACE & LAC ECROPOMIC

Sellic 00x050323460003; Sansi Nomber 387025003-003010-0

Call to Motelia:			person	1
UE Sen. TX Spur, Entissions: 9 Mid FF4 152 Mg		-13.00 d0m	40.36 dilles	7
UE Gen. TX Spor. Envirolence:	1	-13.00 ellim	41.42 dBm	1
UE Gen. TX Spur, Emissions: 30 After 474 2 State	10	-13.00 d0m	-43.29 dilex	1
UE Gen, TX Sport, Emissions: 1707t; 574 S0393-Mrs;	13	-13.00 dBm	-50.52 dSm	1
UB Gen. TX Spor, Emissions: - 5/64.9 kAy <7< 12.75 GHz	100	-13.00 ether	-43.75 dfm	1

DE Characteria, Administra (subsidio) del Coletti, Subsidii il Prin. Claus S

Maximum Pawer HSUPA:	18.80 dBm	25.70 ellim	28.49 dlin	1
UE Gen. TX Spur. Emissions: - 9 life + F+ 1/20 life	I and the second	-13.00 si0m	-88.49 dire -	1
UE Gen. TX Spur. Emissions: 307 s/d 17 s 30 s/d:		-13.00 dBin	40.80 dbs	1
UE Gars, TX Spor. Emissions: 30 May 1111 1504;	13 20	-13.00 dBm	43.49 680	1
UE Gen. TX Spur. Emissions: 3 GHz < 7 < 5057,8 APU		-13.00 s8m	41.52 dilee	1
UE Gan. TX Spur. Environment. 1992 5 AMP 47 C 1272 GMP.		-13.00 dBm	-43.75 dbm	10

DE Characterial Amenican public 8 97 2 9 dB Gutter 1, 75 or Claric 8

Maximum Priser HSLPA:	10.90 dBm	25.70 dilles	25.48 dile	1
UE Gen. TX Spor. Entenione: \$150, CFC (20 test		-12.00 dBm	-86.02 office	1
UE Gen. TX Spur. Emissions: 350 3/dz < f < 30 3/dz	E .	1 -13.00 ellm	10 22 diller	1
UB Gen. TX Spur. Emissions: 30 AH2 474 1 GHz	E	1 -12.00 dbm	43.00 dbm	1
UE Gen. TX Spor. Entersions: 2 District State (AMM)	E	1-12.00 attin	-48.07 dBm	1
UE Gen. TX Spur. Emissions: 1000 f 6No 424 1275 Gre	E 31	-13.00 dBm	-60.43 dibm	1
Call Release Test:			passed	1

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Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Calibration Due
AC Conducted Emissions		
R&S EMI Test Receiver	ESIB40	05/19/2012
R&S LISN	ESH2-Z5	05/18/2012
CHASE LISN	MN2050B	05/18/2012
Universal Radio Communication Tester	CMU200	02/22/2012
Radiated Emissions		
Spectrum Analyzer	8564E	05/19/2012
EMI Receiver	ESIB 40	05/18/2012
R&S LISN	ESH2-Z5	05/18/2012
CHASE LISN	MN2050B	05/19/2012
Antenna(1 ~18GHz)	3115	6/2/2012
Antenna (30MHz~2GHz)	JB1	6/1/2012
Chamber	3m	10/13/2011
Pre-Amplifier(1 ~ 26GHz)	8449	5/17/2012
Horn Antenna (18~40GHz)	AH-840	7/23/2013
Microwave Pre-Amp (18~40GHz)	PA-840	Every 2000 Hours
Universal Radio Communication Tester	CMU200	02/22/2012
Signal Analyzer	FSIQ7	5/5/2012
Temperature/Humidity Chamber	1007H	6/1/2012
Sekonic Hygro Hermograph	ST-50	06/04/2012

Note: Functional Verification

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Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

Test Set-up

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in <u>Annex B</u>.
- 2. The power supply for the EUT was fed through a $50\Omega/50\mu H$ EUT LISN, connected to filtered mains.
- 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
- 4. All other supporting equipments were powered separately from another main supply.

Test Method

- 1. The EUT was switched on and allowed to warm up to its normal operating condition.
- 2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
- 3. High peaks, relative to the limit line, were then selected.
- 4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 KHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
- 5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

Sample Calculation Example

At 20 MHz limit = 250 μ V = 47.96 dB μ V

Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB

Q-P reading obtained directly from EMI Receiver = 40.00 dBµV

(Calibrated for system losses)

Therefore, Q-P margin = 47.96 - 40.00 = 7.96 i.e. **7.96 dB below limit**

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Annex A. iii RADIATED EMISSIONS TEST DESCRIPTION

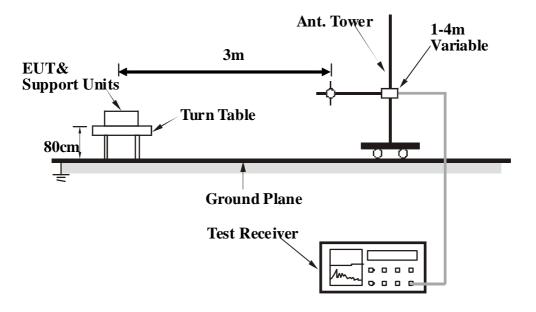
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 1GHz (for FCC tests, until the 5^{th} harmonic for operating frequencies \geq 108MHz), was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS).

Test Set-up

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table as shown in Annex B.
- 2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
- 3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



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Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

- 1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission
- 2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
- 3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

- 1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
- 2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
- 3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
- 4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from $0 \circ to 360 \circ$
- 5. Repeat step 4 until all frequencies need to be measured were complete.
- 6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

Peak = Reading + Corrected Factor

Where:

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any) And the average value is

> Average = Peak Value + Duty Factor or Set RBW = 1MHz, VBW = 10Hz.

Note:

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.

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Annex B EUT AND TEST SETUP PHOTOGRAPHS

Please see the attachment

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

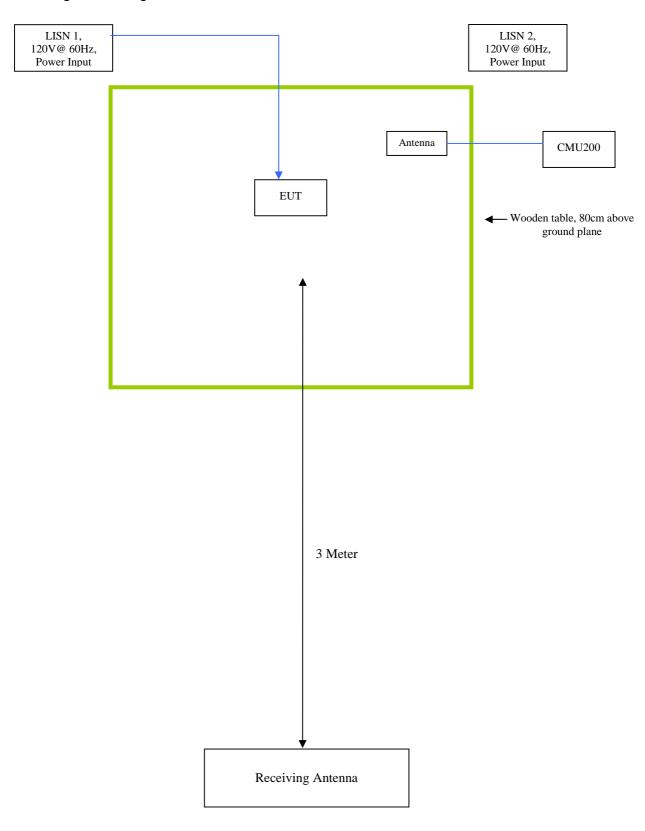
EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Equipment Description (Including Brand Name)	Model & Serial Number	Cable Description (List Length, Type & Purpose)

Block Configuration Diagram for Radiated Emission



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Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation	
Emissions Testing	The EUT was communicating with base station and set to work at maximum output power.	
Others Testing	The EUT was communicating with base station and set to work at maximum output power.	

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Annex D User Manual, Block Diagram, Circuit Diagram

Please see attachment

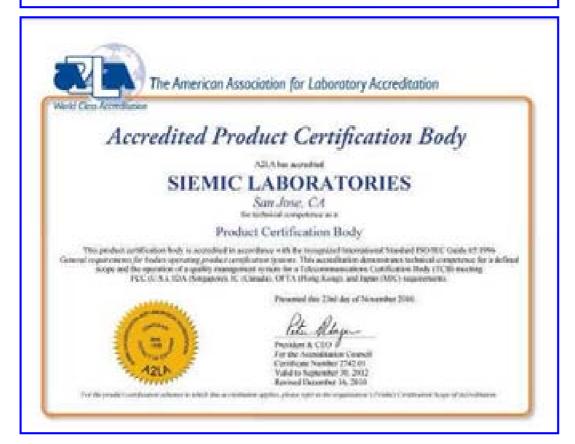


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Annex E SIEMIC ACCREDITATION

SIEMIC ACCREDITATION DETAILS: A2LA 17025 & ISO Guide 65: 2742.01, 2742.2





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The American Association for Laboratory Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC GUIDE 65:1996

SIEMIC INC.
2206 Ringwood Ave,
San Jose, CA 95131

Mr. Snell Leong (Authorized Representative) Phone: 408 526 1188
www.siemic.com

PRODUCT CERTIFICATION CONFORMITY ASSESSMENT BODY (CAB)

Valid to: September 30, 2012 Certificate Number: 2742.02

In recognition of the successful completion of the A2LA Certification Body Accreditation Program evaluation, including the US Federal Communications Commission (FCC), Industry Canada (IC), Singapore (IDA) and Hong Kong (OFTA) requirements for the indicated types of product certifications, accreditation is granted to this organization to perform the following product certification schemes:

Economy Scope

Federal Communication Commission - (FCC)

Unlicensed Radio Frequency Devices A1, A2, A3, A4
Licensed Radio Frequency Devices B1, B2, B3, B4
Telephone Terminal Equipment C

Industry Canada - (IC)

Radio Scope 1-Licence-Evernpt Radio Frequency Devices:

Scope 2-Licensed Personal Mobile Radio Services; Scope 3-Licensed General Mobile & Fixed Radio Services;

Scope 4-Licensed Markime & Aviation Radio Services; Scope 5-Licensed Fixed Microwave Radio Services;

IDA - Singapore

Line Terminal Equipment All Technical Specifications for Line Terminal

Equipment - Table I of IDA MRA Recognition.

Scheme: 2009, Annex 2

Radio-Communication Equipment All Technical Specifications for Radio-Communication

Equipment - Table 2 of IDA MRA Recognition

Scheme: 2009, Annex 2

"Fluor refer to Info-Communication Development Authority (IDA) Singapore website at:

http://www.sdx.gov.up.shi/Policies/SMand/SMRegulation/Policies/and/Regulation/Level/2/20060009145118/MR4RecSc

home pull

(A2LA Cert. No. 2742.02) Revised 12/16/2010

Alfren Page 1 of 2

5301 Buckeystown Pile, Suite 350 | Frederick, Maryland 21704-8373 | Phone: 301-644-2246 | Fac: 301-662-2974 | www.A3LA.org

^{*}Please refer to FCC TCB Program Roles and Responsibilities, released July 22, 2010 detailing scopes, roles and responsibilities, http://doi.org/10.1016/j.cpm/scopes/filesadePage.efm?id=440024xm/sch-P.

^{*}Please refer to Industry Canada (IC) website at http://www.ncgc.cococ.iste/isnt-got.nul.org/is19555 had

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OFTA - Hong Kong

Radio Equipment HKTA 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008,

1009, 1010, 1015, 1016, 1019, 1020, 1022, 1026, 1027, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1041, 1042, 1045, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055

*Please refer to the Office of the Telecommunications Authority's website at: http://www.edia.gov.bl./on/standards/HKT-Upoc/hdats/Htm.html

Fixed Network Equipment HKTA 2001, 2005, 2011, 2012, 2013, 2014, 2015, 2016,

2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034.

2035, 2036, 2037, 2040, 2041, 2102, 2103, 2104, 2108, 2201, 2202, 2203, 2204

MIC - Japan

Terminal Equipment Scope A1 - Terminal Equipment for the Purpose of Calls

Radio Equipment Scope B1 - Unficensed Station (all classes of equipment)

Peter Mayer Page 2012

^{*}Please refer to the Office of the Telecommunications duthority's website at http://www.edu.gov.bl.comistandards/EKT/Opec/blas-2xxx.html

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SIEMIC ACREDITATION DETAILS: FCC Test Site Registration No. 783147

FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division 7435 Oakland Mills Road Columbia, MD 21846

September 12, 2008

Registration Number: 783147

SIEMIC Laboratories 2206 Ringwood Avenue, San Jose, CA 95131

Attention:

Leslie Bai

Des

Measurement facility located at San Jose

Anechoic chamber (3 meters) Date of Listing: February 10, 2004

Dear Sir or Madam:

Your request for registration of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC rules. The information has, therefore, been placed on file and the name of your organization added to the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years, Please also note that this registration does not recognize the measurement facility to perform testing for products authorized under the Declaration of Conformity (DoC) process. In order to test products subject to DoC authorization process, a measurement facility must be accredited and recognized by the FCC.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website www.fcc.gov under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,

Katie Hawkins Electronics Engineer

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SIEMIC ACREDITATION DETAILS: Industry of Canada CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gathersburg, Maryland 20899-

March 4, 2009

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by Industry Canada (IC), under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: SIEMIC, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131 USA

Identification No.: US0160

Recognized Scope: CS-03 Part I, II, V, VI, VII and VIII

You may submit test data to IC to verify that the equipment to be imported into Canada satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. Please contact Ms. Ramona Saar at (301) 975-5521 or ramona saar@nist.gov if you have any questions.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group Standards Services Division

Enclosure

ec: CAB Program Manager

Paris = Ald



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SIEMIC ACREDITATION DETAILS: Industry of Canada Test Site Registration No. 4842-1

May 27, 2010

OUR FILE: 46405-4842 Submission No. 140356

Siemic Inc. 2206 Ringwood Ave San Jose, CA, 95131 USA.

Attention: Spell Leong.

Dear Sin/Madame

The Bureau has received your application for the renewal of a 3m alternative test site. Be advised that the information received was satisfactory to Industry Casada. The following number(s) is now associated to the tite(s) for which registration / renewal was sought (4842A-1). Please reference the appropriate site number in the body of test reports containing measurements performed on the site. In addition, please keep for your sweets the following information;

- Your primary code is: 4542
- The company number associated to the site(s) located at the above address is: 4842A

Furthermore, to obtain or renew a unique site number, the applicant shall demonstrate that the site has been accredited to ANSI C63.4-2003 or later. A scope of accreditation indicating the accreditation by a recognized accreditation body to ANSI C63.4-2003 or later shall be accepted. Please indicate in a letter the previous assigned site number if applicable and the type of site (example: 3 metre OATS or 3 metre chamber). If the test facility is not accredited to ANSI C63.4-2003 or later, the test facility shall submit test data demonstrating full compliance with the ANSI standard. The Bureau will evaluate the filing to determine if recognition shall be granted.

The frequency for re-validation of the test site and the information that in required to be filed or retained by the testing party shall comply with the requirements established by the accrediting organization. However, in all cases, test site re-validation shall occur on an interval not to exceed two years. There is no fee or form associated with an OATS filing. OATS submissions are encouraged to be submitted electronically to the Bureau using the following URL:

http://strategia.ic.gc.ca/epic/internet/inceb-blost nof/en/h_tr00052a.html

If you have any questions, you may contact the Bureau by e-mail at certification bureau if it me ca. Flease reference our file and submission number above for all correspondence.

Years sintently.

For Window Leberstoy Mesager Cortification and Engineering Survey 3701 Carling Ava., Building 94 P.O. Son 11460, Sterion "H" Ottown, Oemoio E28 B12 Franch delevirable gillipin gi ra Tel. No. (813) 896-4340 Fee, No. (813) 890-4753

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SIEMIC ACREDITATION DETAILS: FCC DOC CAB Recognition: US1109

FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division 7435 Oakland Mills Road Columbin, MD 21046

August 28, 2008

Siemic Laboratories 2206 Ringwood Ave., San Jose, CA 95131

Attentiona

Leslie Bai

Ret

Accreditation of Siemic Laboratories

Designation Number: US1109 Test Firm Registration #: 540430

Dear Sir or Madam:

We have been notified by American Association for Laboratory Accreditation that Siemic Laboratories has been accredited as a Conformity Assessment Body (CAB).

At this time Siemic Laboratories is bereby designated to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Parts 15 and 18 of the Commission's Rules.

This designation will expire upon expiration of the accreditation or notification of withdrawal of designation.

Sincerely.

George Tannahill Electronics Engineer

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SIEMIC ACREDITATION DETAILS: Australia CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gathersburg, Maryland 20899-

November 20, 2008

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Australian Communications and Media Authority (ACMA) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: Siemic, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131

Identification No.: US0160

Recognized Scope: EMC: AS/NZS 4251.1 (until 5/31/2009), AS/NZS 4251.2 (until 5/31/2009).

AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR 22, AS/NZS

61000.6.3, AS/NZS 61000.6.4

Radiocommunications: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS

4769.2, AS/NZS 4770, AS/NZS 4771

Telecommunications: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06, AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S040:01, AS/

You may submit test data to ACMA to verify that the equipment to be imported into Australia satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements. Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. Please contact Ms. Ramona Saar, at (301) 975-5521 or ramona.saar@nist.gov if you have questions.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

Standards Services Division

David F. alder

Enclosure

cc: Snell Leong, Siemic, Inc.; Ramona Saar, NIST

NIST

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SIEMIC ACREDITATION DETAILS: Korea CAB ID: US0160



Radio Research Agency

KOREA COMMUNICATIONS COMMISSION REPUBLIC OF KOREA

1, Wonhyoro-3ga, Yongsan-gu, Seoul, 140-848, Korea

Tel: +82 2 710 6610 Fax: +82 2 710 6619 Homepage: www.rra.go.kr

KCC/RRA

14th Jan, 2011

Radio Research Agency Korea Communications Commission #1, Wonhyoro-3ga, Yongsan-gu Seoul Korea 140-848 (Tel) 82-2-710-6610, (Fax) 82-2-710-6619 Jan 149, 2011

Mr. David F. Alderman Group Leader, Standards Coordination and Conformity Group National Institute of Standards and Technology 100 Bureau Drive, Stop 2100 Gaithersburg, Maryland 20899-2100, USA

Dear Mr. David F. Alderman:

This is to confirm the recognition by Radio Research Agency of

SIEMIC, Inc. (US0160)

as an accredited Conformity Assessment Body (CAB) under the terms of Phase I of the APEC TEL MRA. The scope for which this laboratory has been recognized is given below.

Coverage	Standards	Date of Recognition
Current Scope	EMI: KCC Notice 2008-39, RRL Notice 2008-3 and KN22 EMS: KCC Notice 2008-38, RRL Notice 2008-4, KN24, KN 61000 -4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11 Radio: RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-11, RRL Notice 2007-80, RRL Notice 2004-68 Telecom: President Notice 20664, RRL Notice 2007-30, 2008-7(1,3,4,5,6)	Jan 14th, 2011
Updated Scope	SAR: RRA Notice 2008-16, RRA Notice 2008-18, KCC Notice 2009-27	

This recognition is contingent upon the maintenance of this CAB's accreditation status and is limited to the standards listed above.

If you have any inquiries about this recognition, please contact to Certification Division of Radio Research Agency with above address and telephone numbers.

1C.-4.2

Best Regards,

Ahn, Kun-Young Director Certification Division

Enclosure

cc: Ramona Saar - NIST,

JungMin Park - RRA

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SIEMIC ACREDITATION DETAILS: Taiwan BSMI Accreditation No. SL2-IN-E-1130R



UNITED STATES DEPARTMENT OF COMMERCE Mational Institute of Standards and Technology Gethersburg, Micyland 20889

May 3, 2006

Mr. Leslie Bai SIEMIC Laboratories 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bui:

I am pleased to inform you that your laboratory has been recognized by the Chinese Taipei's Bureau of Standards, Metrology, and Inspection (BSMI) under the Asia Pacific Economic Cooperation (APEC) Mutual Recognition Arrangement (MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. You may submit test data to BSMI to verify that the equipment to be imported into Chinese Taipei satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designation information is as follows:

BSMI number: SL2-IN-E-1130R (Must be applied to the test reports)

U.S Identification No: US0160
 Scope of Designation: CNS 13438
 Authorized signatory: Mr. Leslie Bai

nd of dela

The names of all recognized CABs will be posted on the NIST website at http://ts.nist.gov/mra. If you have any questions, please contact Mr. Dhillon at 301-975-5521. We appreciate your continued interest in our international conformity assessment activities.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

oc: Jogindar Dhillon



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SIEMIC ACREDITATION DETAILS: Taiwan NCC CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

March 16, 2009

Mr. LeslieBai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the National Communications Commission (NCC) for the requested scope expansion under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: SIEMIC, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131

Identification No.: US0160

Current Scope: LP0002, PSTN01, ADSL01, ID0002, IS6100 and CNS 14336

Additional Scope: PLMN07

You may submit test data to NCC to verify that the equipment to be imported into China satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. If you have any questions please contact Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

il 2 alda

Standards Services Division

Enclosure

cc: Ramona Saar

NST

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SIEMIC ACREDITATION DETAILS: Mexico NOM Recognition



Laboratorio Valentín V. Rivero

Maxica D.F. a 16 de octubre de 2006.

LESLIE BAI DIRECTOR OF CERTIFICATION SIEMIC LABORATORIES, INC. ACCESSING GLOBAL MARKETS PRESENTE

En contestación a su escrito de fecha 5 de septembre del año en curso, le comento que estamos muy interesados en su intención de firmar un Acuerdo de Reconocimiento Mutuo, para lo cual adjunto a este escrito encontrara el Acuerdo en idioma ingles y español prellenado de los cuales le pido sea revisado y en su caso corregido, para que si esta de acuerdo poder firmado para mandado con las autoridades Mexicanas para su visto bueno y así poder ejercer dicho acuerdo.

Aprovecho este escrito para mencionarle que nuestro intermediano gestor será la empresa lascel de México. S. A. de C. V., empresa que ha colaborado durante mucho tiempo con nosotros en lo refacionado a la evaluación de la conformidad y que quenta con amplia experiencia en la gestoria de la certificación de cumplimiento con Normas. Oficiales Mexicanas de producto en México.

Me despido de ustad enviándole un cordial seludo y esperando sus comentanos al Acuerdo que nos poupa

Atentamente:

Ing. Faueting Soriez González Gererite Pterrico del Laboratorio de GAMEN

Cultarian Tr Pantitions Christista Dento Mosen, DF Ter 5284-0009 con 12 tines Fax 5384-0009

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SIEMIC ACREDITATION DETAILS: Hong Kong OFTA CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

December 8, 2008

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Office of the Telecommunications Authority (OFTA) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: SIEMIC, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, California 95131 USA

Identification No.: US0160

Recognized Scope: Radio: HKTA 1002, 1007, 1008, 1010, 1015, 1016, 1020, 1022, 1026,

1027, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1039, 1041,

1042, 1043, 1044, 1046, 1047, 1048, 1049, 1051

Telecom: HKTA 2011, 2012, 2013, 2014, 2017, 2018, 2022, 2024, 2026,

2027, 2028, 2029, 2030, 2031, 2032, 2033

You may submit test data to OFTA to verify that the equipment to be imported into Hong Kong satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. If you have any questions please contact Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

Standards Services Division

Paris I alden

Enclosure

cc: Ramona Saar



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SIEMIC ACREDITATION DETAILS: Australia ACMA CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Geithersburg, Maryland 20899-

November 20, 2008

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Baic

NIST is pleased to inform you that your laboratory has been recognized by the Australian Communications and Media Authority (ACMA) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: Siemic, Inc.

Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131

Identification No.: US0160

Recognized Scope: <u>EMC</u>: AS/NZS 4251.1 (until 5/31/2009), AS/NZS 4251.2 (until 5/31/2009),

AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR 22, AS/NZS

61000.6.3, AS/NZS 61000.6.4

Radiocommunications: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS

4769.2, AS/NZS 4770, AS/NZS 4771

<u>Telecommunications</u>: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06, AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043:2:06, AS/NZS 60950.1

You may submit test data to ACMA to verify that the equipment to be imported into Australia satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements. Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. Please contact Ms. Ramona Saar, at (301) 975-5521 or ramona saar@nist.gov if you have questions.

Sincerely,

David F. Alderman

Group Leader, Standards Coordination and Conformity Group

Standards Services Division

David F. alder

Enclosure

cc: Snell Leong, Siemic, Inc.; Ramona Saar, NIST

NST

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SIEMIC ACREDITATION DETAILS: Australia NATA Recognition



Leslie Bai SEMC, Inc. 2206 Fingwood Avenue San Jone, CA 95131

November 4, 2006

Under Australian government legislation, the Australian Communications and Media Authority (ACMA) has determined the National Association of Testing Authorities, Australia (NATA) as an accreditation body as per Section 409(1) of the Telecommunications Act 1997 (Cth). Pursuant to Section 409(2) of the Telecommunications Act 1997 (Cth), I am pleased to advise that your laboratory has been determined as a Recognised Testing Authority (RTA).

This determination has been made on the basis of your accreditation by A2LA accreditation no. 2742-01 and the Mutual Recognition Agreement between NATA and A2LA. It is effective from 11 July 2008. RTA status applies only to the following standards and is contingent upon their continued inclusion in your laboratory's scope of accreditation.

AS:ACIF 8002, AS:ACIF 8003, AS:ACIF 8004, AS:ACIF 8006, AS:ACIF 8016, AS:ACIF 8031, AS:ACIF 8038, AS:ACIF 8041 and AS:ACIF 8043.2

As an RTA, your laboratory has the following obligations:

- the laboratory shall continue to meet all of the accreditation enteria of AZLA;
- the authorised representative of the laboratory shall notify NATA of changes to the staff or operations of the laboratory which would affect the performance of the tests for which the laboratory has been determined;
- 3. compliance of equipment shall be reported on test reports bearing the A2LA logo endorsement.

Current information on the Australian Communications and Media Authority and regulatory requirements for telecommunications products within Australia can be obtained from the ACMA's web-site at "http://www.acma.gov.au. Further information about NATA may be gained by visiting "latty //www.nata.au..au".

Please note that AS/ACIF \$040 and New Zealand standards do not form part of the RTA scheme.

Your RTA listing will appear on the NATA website shortly.

Kind Regards

Chris Norton,
Senior Scientific Officer
Measurement Science and Technology
National Association of Testing Authorities (NATA)
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North Melbourne Vic 3051
Australia

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Internet: www.nata.aun.au



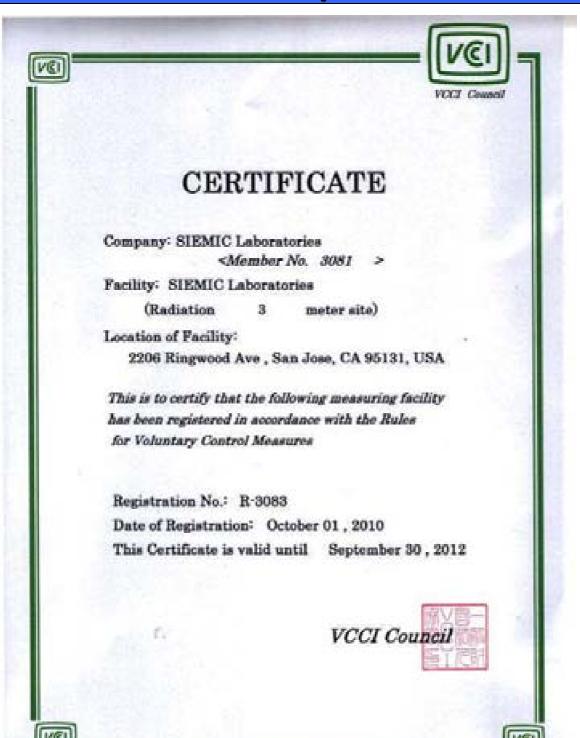
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SIEMIC ACREDITATION DETAILS: VCCI Radiated Test Site Registration No. R-3083



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SIEMIC ACREDITATION DETAILS: VCCI Conducted (Main Port) Test Site Registration No. C-3421





VCCI Council

CERTIFICATE

Company: SIEMIC Laboratories

<Member No. 3081

Facility: SIEMIC Laboratories

(Main Ports Conducted Interference Measurement)

Location of Facility:

2206 Ringwood Ave San Jose, CA 95131, USA

This is to certify that the following measuring facility has been registered in accordance with the Rules for Voluntary Control Measures

Registration No.: C-3421

Date of Registration: October 01, 2010

This Certificate is valid until September 30, 2012



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SIEMIC ACREDITATION DETAILS: VCCI Conducted (Telecom Port) Test Site Registration No. T-1597

