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TEST REPORT

No. 2012TAR088

for

TCT Mobile Limited

HSUPA/HSDPA/UMTS triband / GSM quadband mobile phone

Model Name: Medoc_AWS

Marketing Name: one touch 985S

FCC ID: RAD239

with

Hardware Version: PIO01

Software Version: v517-1-band145

Issued Date: Mar 20, 2012

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of TMC Beijing.

Test Laboratory:

DAR accreditation (DIN EN ISO/IEC 17025): No. DAT-P-114/01-01

FCC 2.948 Listed: No.733176

IC O.A.T.S listed: No.6629A-1

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1. Test Laboratory

1.1. Testing Location

Company Name:	TMC Beijing, Telecommunication Metrology Center of MIIT
Address:	Shouxiang Science Building, No 51, Xueyuan Road, Haidian District,
	Beijing, P.R.China
Postal Code:	100191
Telephone:	00861062304633
Fax:	00861062304793

1.2. Testing Environment

Normal Temperature:	15-35 ℃
Relative Humidity:	20-75%

1.3. Project data

Testing Start Date:	Feb 02, 2012
Testing End Date:	Mar 20, 2012

1.4. Signature

登税则

Zi Xiaogang (Prepared this test report)

豹向的

Sun Xiangqian (Reviewed this test report)

P\$ 245 年;

Lu Bingsong Deputy Director of the laboratory (Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name:	TCT Mobile Limited
Address /Post:	5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. 201203
City:	Shanghai
Country:	China
Telephone:	0086-21-61460890
Fax:	0086-21-61460602

2.2. Manufacturer Information

Company Name:	TCT Mobile Limited
Address /Post:	5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Address /Post.	Pudong Area Shanghai, P.R. China. 201203
City:	Shanghai
Country:	China
Telephone:	0086-21-61460890
Fax:	0086-21-61460602



3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	HSUPA/HSDPA/UMTS triband / GSM quadband mobile phone
Model Name	Medoc_AWS
Marketing Name	one touch 985S
FCC ID	RAD239
Frequency	GSM 850MHz; PCS 1900MHz; WCDMA Band IV; WCDMA Band
	V
Antenna	Internal
Power supply	Battery or Charger (AC Adaptor)
Output power	25.57maximum EIRP measured for WCDMA BAND IV
Extreme vol. Limits	3.5VDC to 4.2VDC (nominal: 3.7VDC)
Extreme temp. Tolerance	-30°C to +50°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MIIT of People's Republic of China.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
N03	013017000010297	PIO01	v517-1-band145
N04	013017000000181	PIO01	v517-1-band145

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE2	Battery
AE3	Charger

AE1

Model	CAB31P0000C1
Manufacturer	BYD
Capacitance	1300 mAh
Nominal Voltage	3.7V

AE2

Model	CAB31P0000C2
Manufacturer	BAK
Capacitance	1300 mAh
Nominal Voltage	3.7V



AE3	
Model	CBA3002AG0C1
Manufacturer	BYD
Length of DC line	100CM

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

The Equipment Under Test (EUT) is a model of HSUPA/HSDPA/UMTS triband / GSM quadband mobile phone with integrated antenna. It consists of normal options: lithium battery, charger. Manual and specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the Client.



4. <u>Reference Documents</u>

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

J	5	
Reference	Title	Version
FCC Part 22	PUBLIC MOBILE SERVICES	V 10.1.09
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS	V 10.1.09
	SERVICES	
ANSI/TIA-603-C	Land Mobile FM or PM Communications Equipment	2004
	Measurement and Performance Standards	
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from	2003
	Low-Voltage Electrical and Electronic Equipment in the	
	Range of 9 kHz to 40 GHz	



5. LABORATORY ENVIRONMENT

Semi-anechoic chamber (23 meters \times 17 meters \times 10 meters) did not exceed following limits along the EMC testing:

along the Ente testing.			
Temperature	Min. = 15 °C, Max. = 30 °C		
Relative humidity	Min. = 30 %, Max. = 60 %		
Shielding effectiveness	> 110 dB		
Electrical insulation	> 10 kΩ		
Ground system resistance	< 0.5 Ω		
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz		
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz		
Control room did not exceed following	limits along the EMC testing:		
Temperature	Min. = 15 °C, Max. = 35 °C		
Relative humidity	Min. =30 %, Max. = 60 %		
Shielding effectiveness	> 110 dB		
Electrical insulation	> 10 kΩ		
Ground system resistance	< 0.5 Ω		
Conducted chamber did not exceed for	llowing limits along the EMC testing:		
Temperature	Min. = 15 °C, Max. = 30 °C		
Relative humidity	Min. = 30 %, Max. = 60 %		
Shielding effectiveness	> 110 dB		
Electrical insulation	> 10 kΩ		
Ground system resistance $< 0.5 \Omega$			
Fully-anechoic chamber (6.8 meters>	3.08 meters × 3.53 meters) did not exceed following limits		

Fully-anechoic chamber (6.8 meters × 3.08 meters × 3.53 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz



6. SUMMARY OF TEST RESULTS

Items	List	Clause in FCC rules	Verdict
1	Output Power	22.913(a) /27.50(d)(2)	Р
2	Emission Limit	2.1051/22.917/27.53(h)	Р
3	CONDUCTED EMISSION	15.107/15.207	Р
4	Frequency Stability	2.1055/ 27.54	Р
5	Occupied Bandwidth	2.1049(h)(i)	Р
6	Emission Bandwidth	22.917(b) / 27.53(g)	Р
7	Band Edge Compliance	22.917(b) / 27.53(g)	Р
8	Conducted Spurious Emission	2.1057/22.917/ 27.53(g)	Р



7. Test Equipments Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL DUE DATE
1	Test Receiver	ESCI	100766	R&S	2012-06-06
2	Test Receiver	ESI40	831564/002	R&S	2012-07-12
3	BiLog Antenna	VULB9163	9163-175	Schwarzbeck	2012-07-05
4	BiLog Antenna	VULB9163	9163-302	Schwarzbeck	2012-07-10
5	Signal Generator	SMB100A	102063	R&S	2012-07-05
7	LISN	ESH2-Z5	829991/012	R&S	2012-07-20
8	Spectrum Analyzer	FSU26	200030	R&S	2012-03-18
9	Spectrum Analyzer	FSU46	100054	R&S	2012-09-14
10	Universal Radio Communication Tester	CMU200	100680	R&S	2012-02-23
11	Universal Radio Communication Tester	CMU200	109914	R&S	2012-07-21
12	Dual-Ridge Waveguide Horn Antenna	3117	00119024	ETS	2012-08-31
13	Dual-Ridge Waveguide Horn Antenna	3117	00119021	ETS	2013-07-09
14	Dual-Ridge Waveguide Horn Antenna	3116	2663	EMCO	2012-07-01
15	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2012-07-01
16	Climatic chamber	PL-2G	343074	ESPEC	2012-02-15



ANNEX A: MEASUREMENT RESULTS

A.1 OUTPUT POWER (§22.913(a)/§27.50(d)(2))

A.1.1 Summary

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMU-200) to ensure max power transmission and proper modulation. This result contains peak output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

A.1.2 Conducted

A.1.2.1 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation.

The power was measured with Rhode & Schwarz Spectrum Analyzer FSU (RMS) These measurements were done at 3 frequencies,826.4MHz, 836.6MHz and 846.6MHz for WCDMA Band V and 1712.4MHz, 1740MHz, and 1752.6MHz for WCDMA Band IV (bottom, middle and top of operational frequency range).

Limit

A.1.2.2 Test Condition

RBW	VBW	Sweep Time	Span
10MHz	10MHz	800ms	50MHz

WCDMA Band V

Measurement result

	СН	Frequency(MHz)	output power(dBm)
WCDMA	4132	826.4	23.34
(Band V)	4183	836.6	23.23
	4233	846.6	23.10



WCDMA Band IV

Measurement result

	СН	Frequency(MHz)	output power(dBm)
WCDMA	1312	1712.4	21.37
(Band IV)	1450	1740	21.40
	1513	1752.6	21.50



A.1.3 Radiated

A.1.3.1 Description

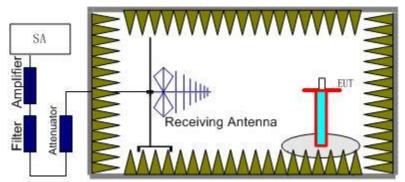
This is the test for the maximum radiated power from the EUT.

Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage." Rule Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts." Rule Part 27.50(d)(2) specifies, "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to a peak EIRP of 1 watt."

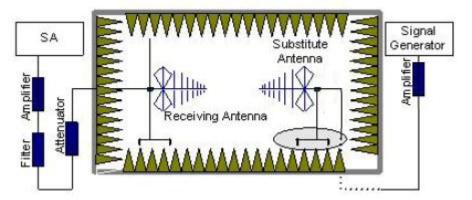
A.1.3.2 Method of Measurement

The measurements procedures in TIA-603C-2004 are used.

 EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



- 2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
- 3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the



reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna.
 The cable loss (P_{cl}) ,the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.
 The measurement results are obtained as described below:

Power(EIRP)= P_{Mea} + P_{Ag} + P_{cl} + G_a

- 5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.



WCDMA Band V-ERP

Limits

	Burst Peak ERP (dBm)		
WCDMA Band V	38.45dBm (7W)		

Measurement result

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	Correction (dBm)	Peak ERP(dBm)	Polarization
826.4	-25.14	2.25	-53.00	0.85	2.15	22.61	Н
836.6	-25.01	2.26	-53.00	0.90	2.15	22.68	Н
846.6	-24.91	2.26	-53.00	0.94	2.15	22.74	Н

Frequency: 846.6 MHz

 $\label{eq:Peak ERP(dBm) = $P_{Mea}(-24.91dBm) - P_{cl}(2.26dB) - P_{Ag}(-53.00dB) - G_a~(0.94dB) - 2.15dBm = 22.74dBm $ANALYZER SETTINGS: RBW = VBW = 3MHz$}$



WCDMA Band IV-EIRP

Limits

	Burst Peak EIRP (dBm)
WCDMA Band IV	30dBm (2W)

Measurement result

Frequency(MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a Antenna Gain(dB)	Peak EIRP(dBm)	Polarization
1712.4	-26.33	3.66	-50.00	-5.17	25.18	Н
1740.0	-25.11	4.36	-50.00	-5.04	25.57	Н
1752.6	-25.61	3.85	-50.00	-4.99	25.53	Н

Frequency: 1740.0 MHz

Peak EIRP(dBm)= P_{Mea}(-25.11dBm)- P_{cl}(4.36dB)- P_{Ag}(-50.00dB) - G_a (-5.04dB) =25.57 **ANALYZER SETTINGS: RBW = VBW = 3MHz**



A.2 EMISSION LIMT (§2.1051/§22.917/§27.53(g))

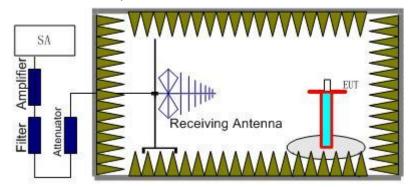
A.2.1 Measurement Method

The measurements procedures in TIA-603C-2004 are used.

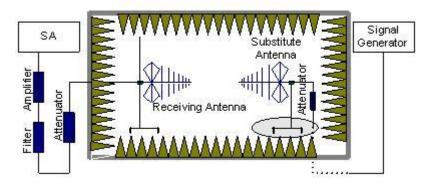
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in Part 22.917 and Part 27.53. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band V and WCDMA Band IV.

The procedure of radiated spurious emissions is as follows:

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



- 2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
- 3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the



substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

- 4. The Path loss (P_{pl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.
 A amplifier should be connected in for the test.
 The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.
 The measurement results are obtained as described below:
 Power(EIRP)=P_{Mea}+ P_{pl} + G_a
- 5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.



A.2.2 Measurement Limit

Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

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A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of WCDMA Band V(826.4MHz, 836.6MHz and 846.6MHz) and WCDMA Band IV(1712.4MHz, 1740MHz and 1752.6MHz). It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the WCDMA Band V and WCDMA Band IV into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.



A.2.4 Measurement Results Table

Frequency	Channel	Frequency Range	Result
WCDMA Band V	Low	30MHz-10GHz	Pass
	Middle	30MHz-10GHz	Pass
	High	30MHz-10GHz	Pass
WCDMA Band IV	Low	30MHz-20GHz	Pass
	Middle	30MHz-20GHz	Pass
	High	30MHz-20GHz	Pass

A.2.5 Sweep Table

Working Frequency	Subrange (GHz)	RBW	VBW	Sweep time (s)
	0.03~1	100KHz	300KHz	10
WCDMA Band V	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~10	1 MHz	3 MHz	3
	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
WCDMA Band IV	5~8	1 MHz	3 MHz	3
	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
	18~20	1 MHz	3 MHz	2

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	D (dDm)	Path	Antenna	Correction	Peak	Limit	Polarization
Frequency(MHz)	P _{Mea} (dBm)	Loss	Gain	(dBm)	ERP(dBm)	(dBm)	
1655.38	-47.74	3.49	-5.42	2.15	-47.96	-13.00	Н
4064.36	-67.86	6.24	-8.54	2.15	-67.71	-13.00	Н
5222.87	-69.82	7.52	-9.83	2.15	-69.66	-13.00	V
6518.67	-65.83	7.69	-10.62	2.15	-65.05	-13.00	Н
7951.67	-68.30	7.53	-11.85	2.15	-66.13	-13.00	Н
9064.73	-69.88	8.20	-12.60	2.15	-67.63	-13.00	V

WCDMA BAND V Mode Channel 4132/826.4MHz

WCDMA BAND V Mode Channel 4183/836.6MHz

	D (dDma)	Path	Antenna	Correction	Peak	Limit	Polarization
Frequency(MHz)	P _{Mea} (dBm)	Loss	Gain	(dBm)	ERP(dBm)	(dBm)	
1670.74	-52.70	3.39	-5.35	2.15	-52.89	-13.00	Н
3588.67	-68.44	5.26	-8.01	2.15	-67.84	-13.00	V
4628.32	-67.40	6.25	-9.03	2.15	-66.77	-13.00	V
5701.96	-69.64	10.15	-10.08	2.15	-71.86	-13.00	V
6954.48	-71.18	7.76	-11.05	2.15	-70.04	-13.00	V
7757.22	-70.06	7.84	-11.66	2.15	-68.39	-13.00	V

WCDMA BAND V Mode Channel 4233/846.6MHz

	D (dDma)	Path	Antenna	Correction	Peak	Limit	Polarization
Frequency(MHz)	P _{Mea} (dBm)	Loss	Gain	(dBm)	ERP(dBm)	(dBm)	
1690.83	-40.00	3.60	-5.26	2.15	-40.49	-13.00	Н
3733.44	-70.78	5.55	-8.18	2.15	-70.30	-13.00	V
4629.57	-68.35	6.25	-9.03	2.15	-67.72	-13.00	V
5466.34	-68.12	8.31	-9.98	2.15	-68.60	-13.00	Н
7191.47	-66.22	8.87	-11.21	2.15	-66.03	-13.00	V
8583.18	-67.33	7.76	-12.27	2.15	-64.97	-13.00	V



WCDMA BAND IV Mode Channel 1312/1712.4MHz

	D (dDma)	Path	Antenna	Peak	Limit	Polarization
Frequency(MHz)	P _{Mea} (dBm)	Loss	Gain	EIRP(dBm)	(dBm)	
3503.51	-68.54	5.15	-7.90	-65.79	-13.00	V
5395.24	-65.68	8.15	-9.94	-63.89	-13.00	Н
7075.17	-66.08	8.38	-11.15	-63.31	-13.00	V
8726.36	-69.14	8.04	-12.38	-64.80	-13.00	V
10247.26	-63.37	8.60	-12.45	-59.52	-13.00	V
13181.06	-65.71	10.27	-13.48	-62.50	-13.00	Н

WCDMA BAND IV Mode Channel 1450/1740MHz

	D (dDm)	Path	Antenna	Peak	Limit	Polarization
Frequency(MHz)	P _{Mea} (dBm)	Loss	Gain	EIRP(dBm)	(dBm)	
3694.45	-69.35	5.34	-8.13	-66.56	-13.00	V
5009.27	-69.59	6.77	-9.71	-66.65	-13.00	Н
7047.63	-66.87	8.21	-11.13	-63.95	-13.00	Н
9174.14	-68.52	8.19	-12.60	-64.11	-13.00	Н
10270.72	-67.15	8.60	-12.45	-63.30	-13.00	V
13188.38	-66.60	10.27	-13.49	-63.38	-13.00	Н

WCDMA BAND IV Mode Channel 1513/1752.6MHz

	D (dDma)	Path	Antenna	Peak	Limit	Polarization
Frequency(MHz)	P _{Mea} (dBm)	Loss	Gain	EIRP(dBm)	(dBm)	
4432.87	-68.59	6.12	-8.76	-65.95	-13.00	Н
5478.54	-67.75	8.60	-9.99	-66.36	-13.00	V
6849.87	-66.97	7.45	-10.95	-63.47	-13.00	Н
8824.03	-64.53	7.89	-12.46	-59.96	-13.00	Н
10335.53	-64.99	8.64	-12.47	-61.16	-13.00	Н
13983.00	-68.78	11.90	-13.99	-66.69	-13.00	V



A.3 CONDUCTED EMISSION (§15.107§15.207)

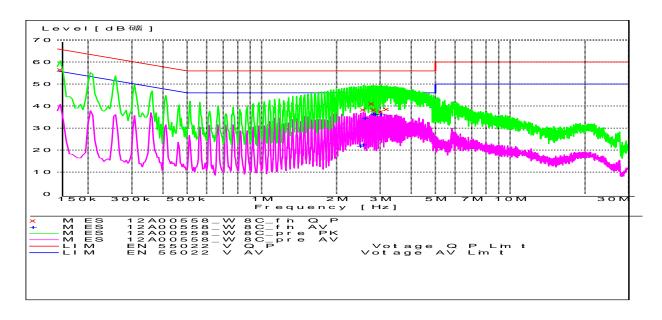
The measurement procedure in ANSI C63.4-2003 is used. Conducted Emission is measured with travel charger.

A.3.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dBµV)				
	Quasi -Peak	Average			
0.15 - 0.5	66 to 56*	56 to 46*			
0.5 – 5	56	46			
5 - 30	60	50			
* Decreases with logarithm of the frequency					

A.3.2 Measurement result

WCDMA Band V



MEASUREMENT RESULT: "12A00558_W8C_fin QP"

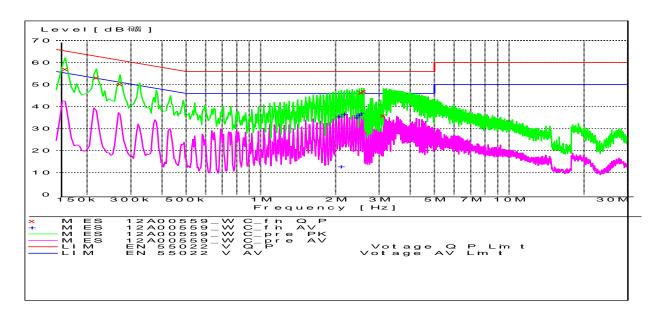
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dB	ιV	dB d	lΒμV	dB	
0.154500	56.70	10.1	66	9.0	Ν	GND
2.562285	38.30	10.1	56	17.7	Ν	GND
2.769929	41.10	10.1	56	14.9	Ν	GND
2.820188	38.30	10.1	56	17.7	Ν	GND
3.024464	37.50	10.1	56	18.5	Ν	GND
3.179372	38.60	10.1	56	17.4	Ν	GND



MEASUREMENT RESULT: "12A00558_W8C_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dB dB	uV	dB d	lΒμV	dB	
2.506586	21.90	10.1	46	24.1	Ν	GND
2.562285	22.50	10.1	46	23.5	Ν	GND
2.608777	34.50	10.1	46	11.5	L1	GND
2.820188	36.50	10.1	46	9.5	L1	GND
2.871360	36.40	10.1	46	9.6	L1	GND
3.024464	36.10	10.1	46	9.9	L1	GND

WCDMA Band IV



MEASUREMENT RESULT: "12A00559_WC_fin QP"

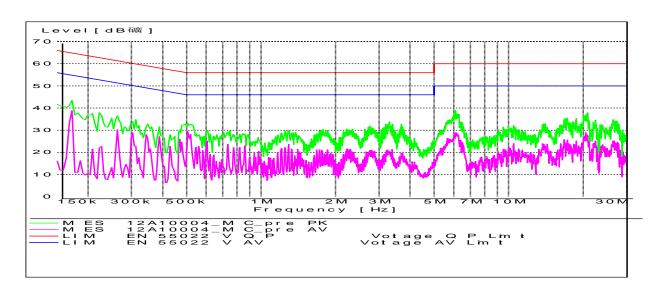
Frequen	icy	Level	Transd	Limit	Margin	Line	PE
]	MHz	dBµ	ιV	dB d	dBμV	dB	
0.1635	00	57.10	10.1	65	8.1	L1	GND
0.2175	00	53.30	10.1	63	9.6	L1	GND
0.2715	00	50.20	10.1	61	10.9	Ν	GND
2.5469	73	46.50	10.1	56	9.5	L1	GND
2.6035	70	47.20	10.1	56	8.8	L1	GND
3.1164	79	36.00	10.1	56	20.0	L1	GND



MEASUREMENT RESULT: "12A00559_WC_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dB	μV	dB d	lB µV	dB	
2.064969	35.50	10.1	46	10.5	L1	GND
2.115077	12.80	10.1	46	33.2	L1	GND
2.170734	36.60	10.1	46	9.4	L1	GND
2.442318	35.10	10.1	46	10.9	L1	GND
2.491606	36.20	10.1	46	9.8	L1	GND
2.546973	36.80	10.1	46	9.2	L1	GND

MP3



MEASUREMENT RESULT: "12A00558_CC_fin QP"

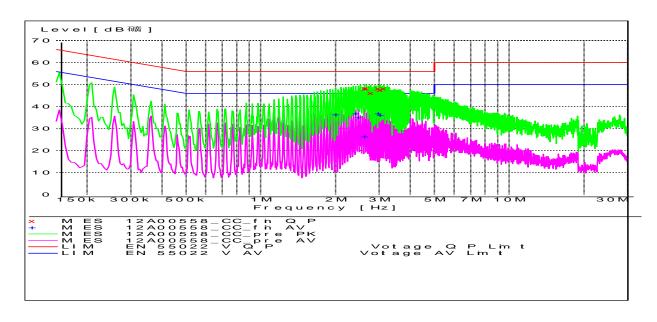
Frequency	Level	Transd	Limit	Margin	Line	PE
MH	Iz dE	βµV	dB o	dΒμV	dB	
2.619223	48.20	10.1	56	7.8	L1	GND
2.666747	48.20	10.1	56	7.8	L1	GND
2.775469	46.20	10.1	56	9.8	L1	GND
2.976505	48.20	10.1	56	7.8	L1	GND
3.030512	47.40	10.1	56	8.6	L1	GND
3.128957	48.30	10.1	56	7.7	L1	GND



MEASUREMENT RESULT: "12A00558_CC_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dB	μV	dB d	lΒμV	dB	
2.004000	36.30	10.1	46	9.7	L1	GND
2.413214	36.80	10.1	46	9.2	L1	GND
2.466839	35.10	10.1	46	10.9	L1	GND
2.619223	26.40	10.1	46	19.6	L1	GND
2.976505	36.90	10.1	46	9.1	L1	GND
3.030512	36.20	10.1	46	9.8	L1	GND

CAMERA



MEASUREMENT RESULT: "12A00558_CC_fin QP"

Frequen	cy	Level	Transd	Limit	Margin	Line	PE
]	MHz	dBµ	ιV	dB c	iΒμV	dB	
2.6192	23	48.20	10.1	56	7.8	L1	GND
2.6667	47	48.20	10.1	56	7.8	L1	GND
2.7754	69	46.20	10.1	56	9.8	L1	GND
2.9765	05	48.20	10.1	56	7.8	L1	GND
3.0305	12	47.40	10.1	56	8.6	L1	GND
3.1289	57	48.30	10.1	56	7.7	L1	GND



MEASUREMENT RESULT: "12A00558_CC_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dB	JV	dB d	lΒμV	dB	
2.004000	36.30	10.1	46	9.7	L1	GND
2.413214	36.80	10.1	46	9.2	L1	GND
2.466839	35.10	10.1	46	10.9	L1	GND
2.619223	26.40	10.1	46	19.6	L1	GND
2.976505	36.90	10.1	46	9.1	L1	GND
3.030512	36.20	10.1	46	9.8	L1	GND



A.4 FREQUENCY STABILITY (§2.1055/§27.54)

A.4.1 Method of Measurement

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMU200 DIGITAL RADIO COMMUNICATION TESTER.

- 1. Measure the carrier frequency at room temperature.
- 2. Subject the EUT to overnight soak at -30° C.
- 3. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on mid channel of WCDMA Band V,and WCDMA BAND IV, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 4. Repeat the above measurements at 10[°]C increments from -30[°]C to +50[°]C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
- 6. Subject the EUT to overnight soak at +50 $^{\circ}$ C.
- 7. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 8. Repeat the above measurements at 10 C increments from +50°C to -30°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 9. At all temperature levels hold the temperature to +/- 0.5° during the measurement procedure.

A.4.2 Measurement Limit

A.4.2.1 For Hand carried battery powered equipment

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.5VDC and 4.2VDC, with a nominal voltage of 3.7VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

A.4.2.2 For equipment powered by primary supply voltage

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the



fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

A.4.3 Measurement results

WCDMA Band V

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	15	0.044
3.7	13	0.038
4.2	17	0.050

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	17	0.050
-20	17	0.050
-10	15	0.044
0	15	0.044
10	13	0.038
20	13	0.038
30	13	0.038
40	15	0.044
50	15	0.044



WCDMA Band IV

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	-6	0.032
3.7	-4	0.021
4.2	-7	0.037

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	-7	0.037
-20	-6	0.032
-10	-6	0.032
0	-4	0.021
10	-4	0.021
20	-4	0.021
30	-6	0.032
40	-6	0.032
50	-7	0.037



A.5 OCCUPIED BANDWIDTH (§2.1049(h)(i))

A.5.1 Occupied Bandwidth Results

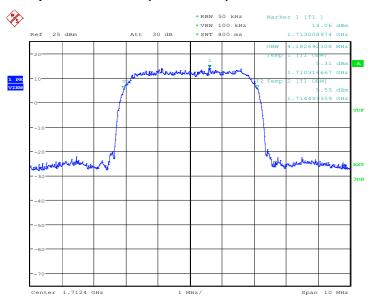
Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of WCDMA IV and WCDMA Band V. The table below lists the measured -20dBc BW. Spectrum analyzer plots are included on the following pages.

WCDMA Band IV(-20dBc)

Frequency(MHz)	Occupied Bandwidth (-20dBc BW)(MHz)
1712.4	4.182
1740	4.182
1752.6	4.182

WCDMA Band IV

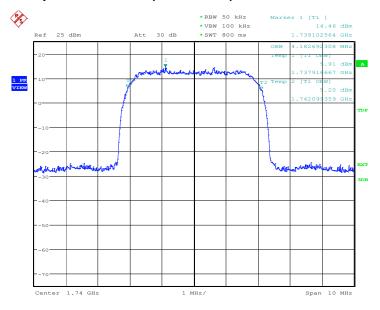
Channel 1312-Occupied Bandwidth (-20dBc BW)



Date: 21.FEB.2012 02:18:40

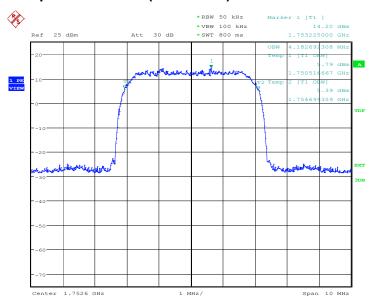


Channel 1450-Occupied Bandwidth (-20dBc BW)



Date: 21.FEB.2012 02:19:14

Channel 1513-Occupied Bandwidth (-20dBc BW)



Date: 21.FEB.2012 02:19:48

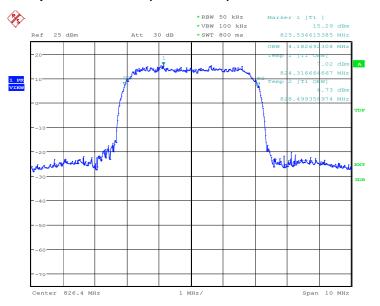


WCDMA Band V(-20dBc)

Frequency(MHz)	Occupied Bandwidth (-20dBc BW)(MHz)
826.4	4.182
836.6	4.166
846.6	4.182

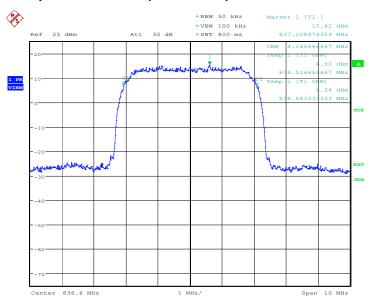
WCDMA Band V

Channel 4132-Occupied Bandwidth (-20dBc BW)



Date: 21.FEB.2012 02:02:39

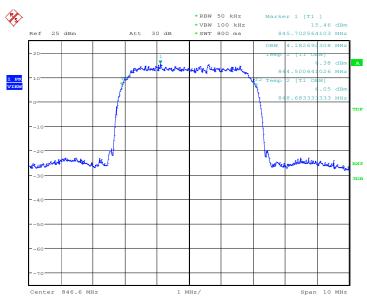




Channel 4183-Occupied Bandwidth (-20dBc BW)

Date: 21.FEB.2012 02:03:13

Channel 4233-Occupied Bandwidth (-20dBc BW)



Date: 21.FEB.2012 02:03:48



A.6 EMISSION BANDWIDTH (§22.917(b)/§24.238(b))

A.6.1Emission Bandwidth Results

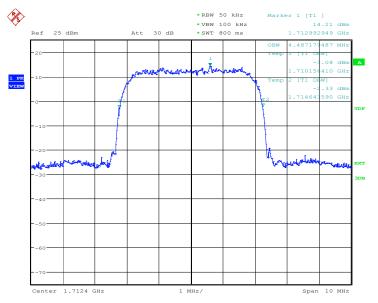
Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of WCDMA Band IV and WCDMA Band V. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

WCDMA Band IV(-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(MHz)
1712.4	4.487
1740	4.487
1752.6	4.471

WCDMA Band IV

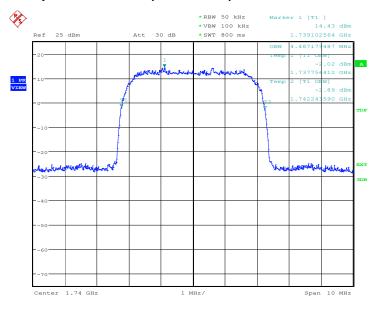
Channel 1312-Occupied Bandwidth (-26dBc BW)



Date: 21.FEB.2012 02:20:24

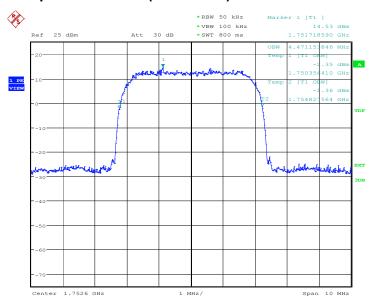


Channel 1450-Occupied Bandwidth (-26dBc BW)



Date: 21.FEB.2012 02:20:59

Channel 1513-Occupied Bandwidth (-26dBc BW)



Date: 21.FEB.2012 02:21:33

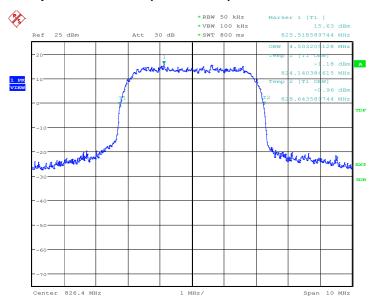


WCDMA Band V(-26dBc)

Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(MHz)
826.40	4.503
836.60	4.487
846.60	4.471

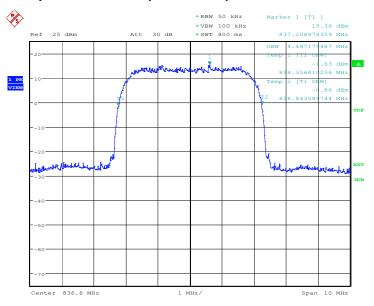
WCDMA Band V

Channel 4132-Occupied Bandwidth (-26dBc BW)



Date: 21.FEB.2012 02:04:24

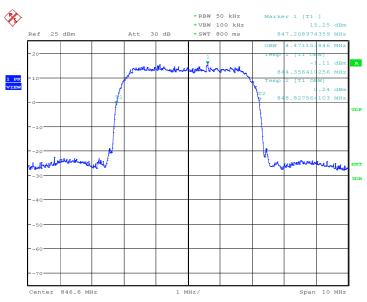




Channel 4183-Occupied Bandwidth (-26dBc BW)

Date: 21.FEB.2012 02:04:58

Channel 4233-Occupied Bandwidth (-26dBc BW)



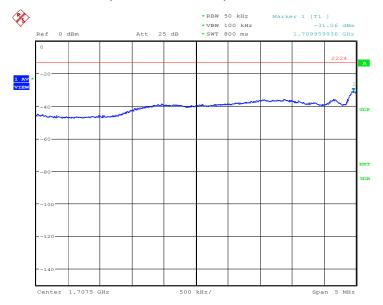
Date: 21.FEB.2012 02:05:32



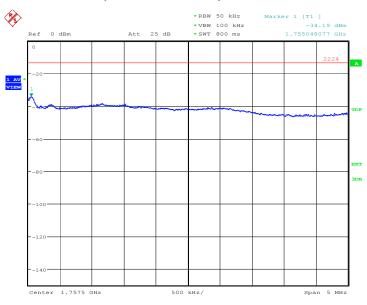
A.7 BAND EDGE COMPLIANCE (§22.917(b)/§24.238(b))

WCDMA Band IV

LOW BAND EDGE BLOCK-A (WCDMA Band IV)-Channel 1312



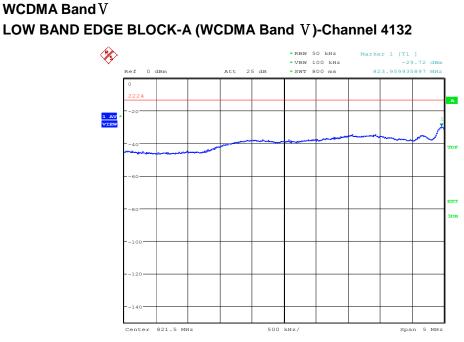
Date: 21.FEB.2012 02:21:44

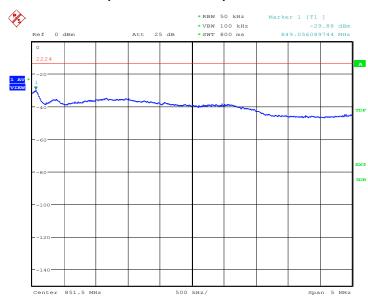


HIGH BAND EDGE BLOCK-C (WCDMA Band IV) - Channel 1513

Date: 21.FEB.2012 02:21:55







HIGH BAND EDGE BLOCK-C (WCDMA Band $\,V)$ –Channel 4233

Date: 21.FEB.2012 02:05:55

Date: 21.FEB.2012 02:05:44



A.8 CONDUCTED SPURIOUS EMISSION (§2.1057/§22.917/§24.238)

A.8.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the EUT.

- Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment of WCDMA Band IV, this equates to a frequency range of 30 MHz to 17.55 GHz, data taken from 30 MHz to 20 GHz. For WCDMA Band V, data taken from 30 MHz to 10GHz.
- 2. The sweep time is set automatically by instrument itself. That should be the optimal sweep time for the span and the RBW. If the sweep time is too short, that is sweep is too fast, the sweep result is not accurate; If the sweep time is too long, that is sweep is too low, some frequency components may be lost. The instrument will give a optimal sweep time according the selected span and RBW.
- The procedure to get the conducted spurious emission is as follows: The trace mode is set to MaxHold to get the highest signal at each frequency; Wait 25 seconds;
 Out the nearth

Get the result.

4. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

Channel	Frequency (MHz)
1312	1712.40
1450	1740.00
1513	1752.60

WCDMA Band IV Transmitter

WCDMA Band V Transmitter

Channel	Frequency (MHz)
4132	826.40
4183	836.60
4233	846.60

A. 8.2 Measurement Limit

Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

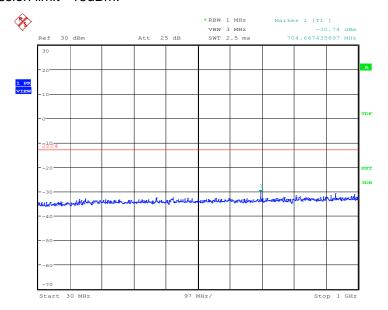
The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.



A.8.3 Measurement result

WCDMA Band IV

A. 8.3.1 Channel 1312: 30MHz –1GHz Spurious emission limit –13dBm.

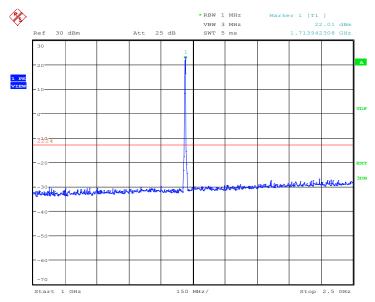


Date: 21.FEB.2012 02:22:26

A. 8.3.2 Channel 1312: 1GHz -2.5GHz

Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.

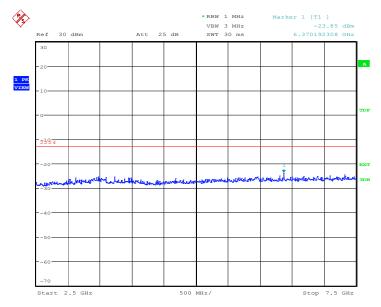


Date: 21.FEB.2012 02:22:55



A. 8.3.3 Channel 1312: 2.5GHz -7.5GHz

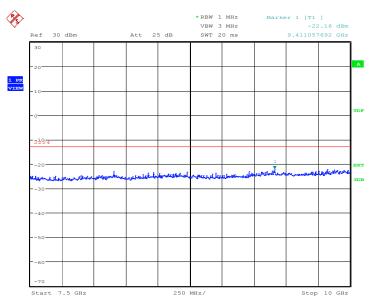
Spurious emission limit –13dBm.



Date: 21.FEB.2012 02:23:23

A. 8.3.4 Channel 1312: 7.5GHz -10GHz

Spurious emission limit -13dBm.

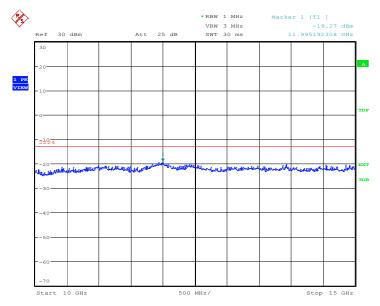


Date: 21.FEB.2012 02:23:51



A. 8.3.5 Channel 1312: 10GHz -15GHz

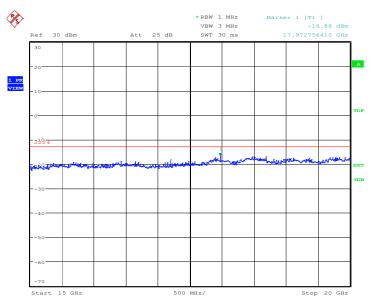
Spurious emission limit –13dBm.



Date: 21.FEB.2012 02:24:19

A. 8.3.6 Channel 1312: 15GHz -20GHz

Spurious emission limit -13dBm.

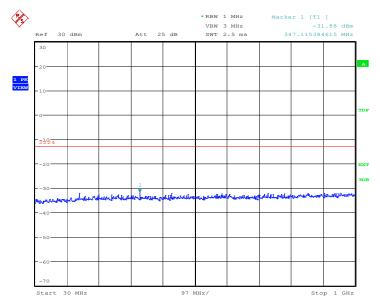


Date: 21.FEB.2012 02:24:47



A. 8.3.7 Channel 1450: 30MHz -1GHz

Spurious emission limit –13dBm.

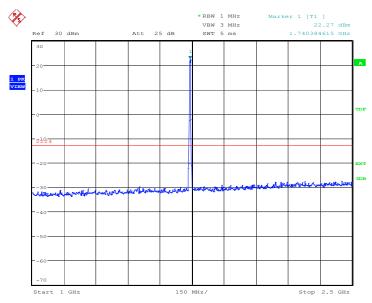


Date: 21.FEB.2012 02:25:19

A. 8.3.8 Channel 1450: 1GHz -2.5GHz

Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.

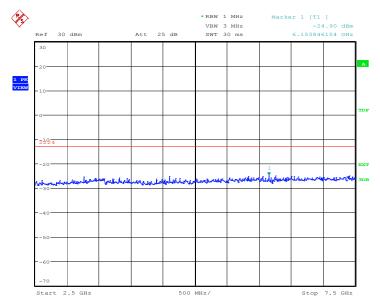


Date: 21.FEB.2012 02:25:47



A. 8.3.9 Channel 1450: 2.5GHz -7.5GHz

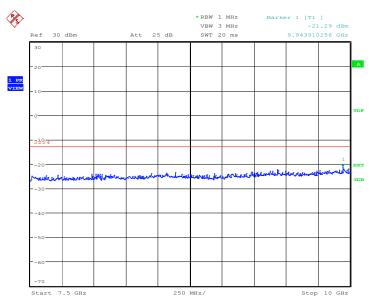
Spurious emission limit –13dBm.



Date: 21.FEB.2012 02:26:15

A. 8.3.10 Channel 1450: 7.5GHz -10GHz

Spurious emission limit –13dBm.

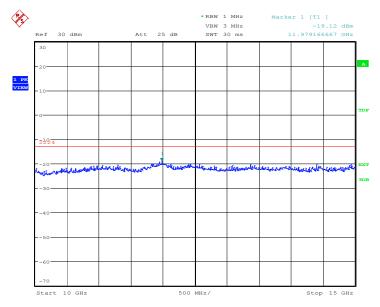


Date: 21.FEB.2012 02:26:43



A. 8.3.11 Channel 1450: 10GHz -15GHz

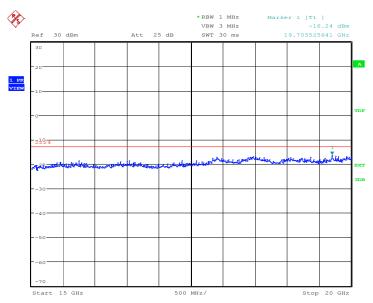
Spurious emission limit -13dBm.



Date: 21.FEB.2012 02:27:11

A. 8.3.12 Channel 1450: 15GHz -20GHz

Spurious emission limit –13dBm.

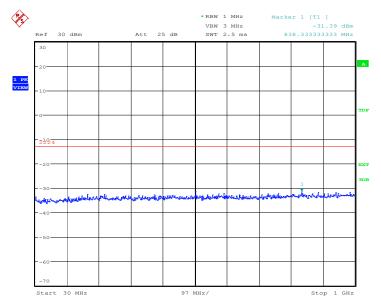


Date: 21.FEB.2012 02:27:40



A. 8.3.13 Channel 1513: 30MHz -1GHz

Spurious emission limit -13dBm.

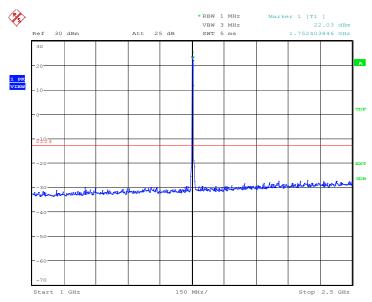


Date: 21.FEB.2012 02:28:11

A. 8.3.14 Channel 1513: 1GHz –2.5GHz

Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.

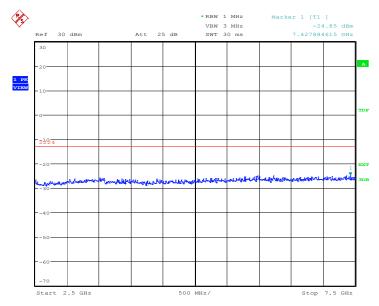


Date: 21.FEB.2012 02:28:39



A. 8.3.15 Channel 1513: 2.5GHz -7.5GHz

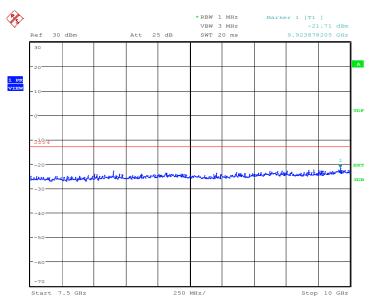
Spurious emission limit –13dBm.



Date: 21.FEB.2012 02:29:07

A. 8.3.16 Channel 1513: 7.5GHz -10GHz

Spurious emission limit -13dBm.

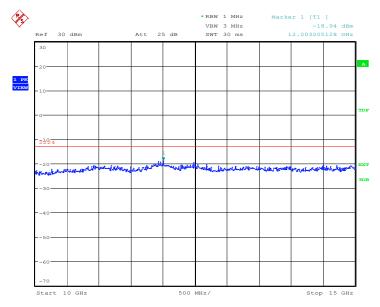


Date: 21.FEB.2012 02:29:35



A. 8.3.17 Channel 1513: 10GHz -15GHz

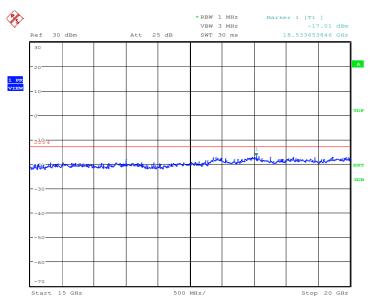
Spurious emission limit -13dBm.



Date: 21.FEB.2012 02:30:03

A. 8.3.18 Channel 1513: 15GHz -20GHz

Spurious emission limit -13dBm.

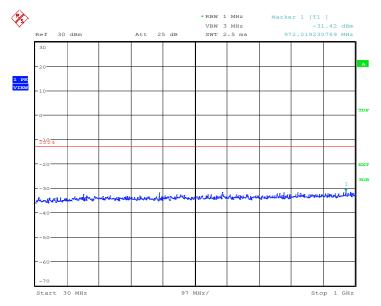


Date: 21.FEB.2012 02:30:32



A. 8.3.19 Idle mode: 30MHz -1GHz

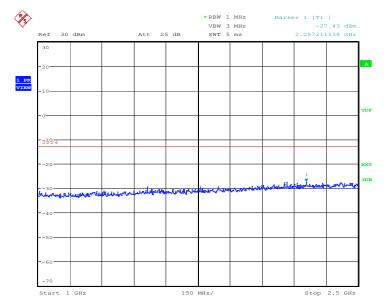
Spurious emission limit –13dBm.



Date: 21.FEB.2012 02:31:01

A.8.3.20 Idle mode: 1GHz –2.5GHz

Spurious emission limit –13dBm.

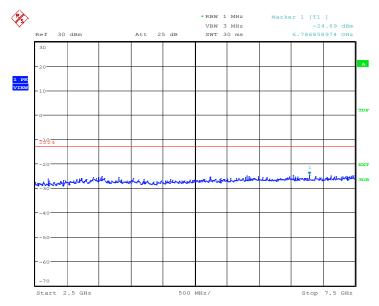


Date: 21.FEB.2012 02:31:29



A.8.3.21 Idle mode: 2.5GHz -7.5GHz

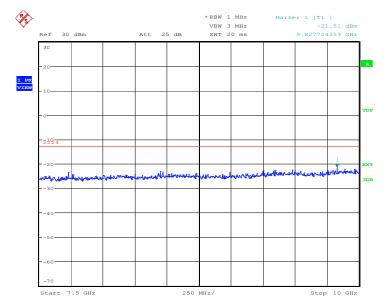
Spurious emission limit –13dBm.



Date: 21.FEB.2012 02:31:57

A.8.3.22 Idle mode: 7.5GHz –10GHz

Spurious emission limit –13dBm.

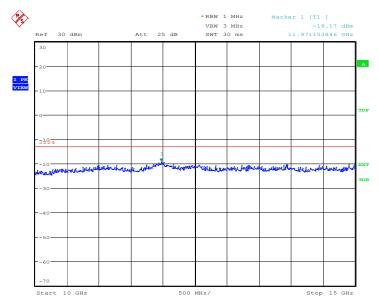


Date: 21.FEB.2012 02:32:25



A.8.3.23 Idle mode: 10GHz –15GHz

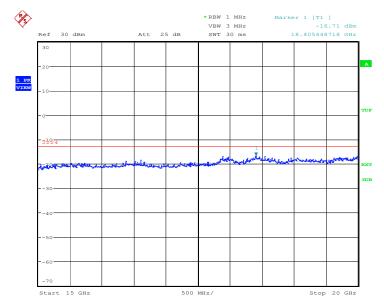
Spurious emission limit –13dBm.



Date: 21.FEB.2012 02:32:53

A.8.3.24 Idle mode: 15GHz –20GHz

Spurious emission limit –13dBm.



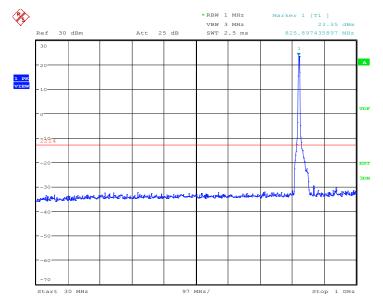
Date: 21.FEB.2012 02:33:22



WCDMA Band V A. 8.3.25 Channel 4132: 30MHz –1GHz

Spurious emission limit –13dBm.

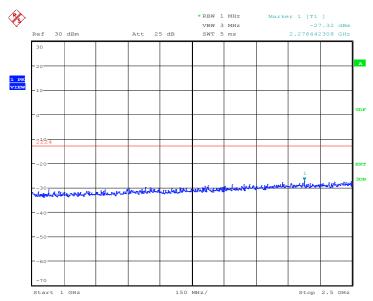
NOTE: peak above the limit line is the carrier frequency.



Date: 21.FEB.2012 02:06:26

A. 8.3.26 Channel 4132: 1GHz – 2.5GHz

Spurious emission limit –13dBm.

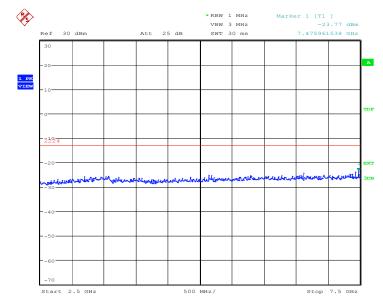


Date: 21.FEB.2012 02:06:54



A. 8.3.27 Channel 4132: 2.5GHz -7.5GHz

Spurious emission limit –13dBm.

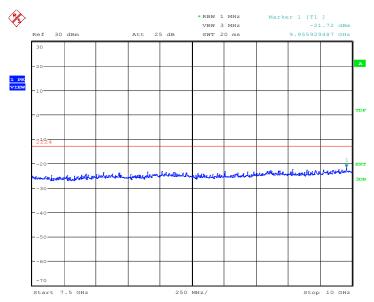


NOTE: peak above the limit line is the carrier frequency.

Date: 21.FEB.2012 02:07:22

A. 8.3.28 Channel 4132: 7.5GHz - 10GHz

Spurious emission limit –13dBm.

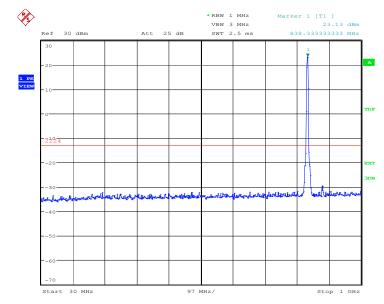


Date: 21.FEB.2012 02:07:50



A. 8.3.29 Channel 4183: 30MHz -1GHz

Spurious emission limit -13dBm.

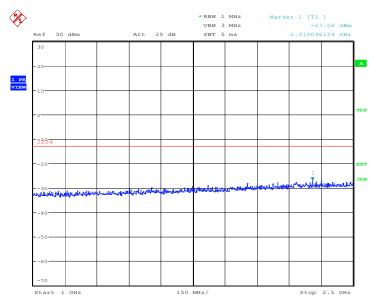


NOTE: peak above the limit line is the carrier frequency.

Date: 21.FEB.2012 02:08:21

A.8.3.30 Channel 4183: 1GHz – 2.5GHz

Spurious emission limit –13dBm.

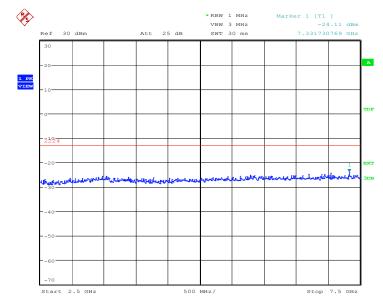


Date: 21.FEB.2012 02:08:49



A. 8.3.31 Channel 4183: 2.5GHz -7.5GHz

Spurious emission limit -13dBm.

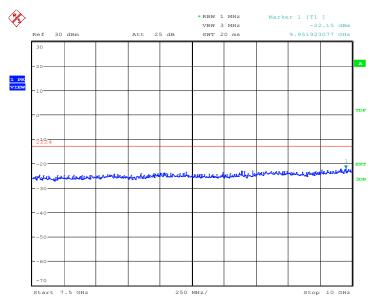


NOTE: peak above the limit line is the carrier frequency.

Date: 21.FEB.2012 02:09:17

A. 8.3.32 Channel 4183: 7.5GHz - 10GHz

Spurious emission limit –13dBm.

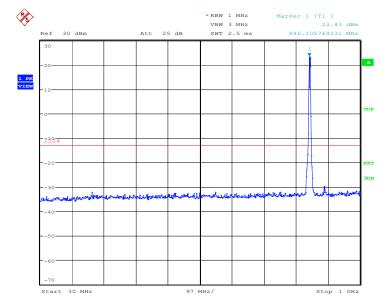


Date: 21.FEB.2012 02:09:46



A. 8.3.33 Channel 4233: 30MHz -1GHz

Spurious emission limit -13dBm.

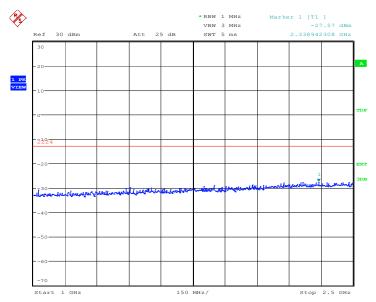


NOTE: peak above the limit line is the carrier frequency.

Date: 21.FEB.2012 02:10:17

A. 8.3.34 Channel 4233: 1GHz – 2.5GHz

Spurious emission limit –13dBm.



Date: 21.FEB.2012 02:10:45



A. 8.3.35 Channel 4233: 2.5GHz -7.5GHz

Spurious emission limit -13dBm.

 * RW 1 MH
 Marker 1 [71]

 VEW 3 MH
 Marker 1 [71]

 VEW 3 MH
 -24.16 dBm

 Ref 30 dBm
 Att 25 dB
 SW 30 ms
 7.363782051 GHZ

 Image: State 1 dBm
 Att 25 dB
 SW 30 ms
 7.363782051 GHZ

 Image: State 1 dBm
 Att 25 dB
 SW 30 ms
 7.363782051 GHZ

 Image: State 1 dBm
 Att 25 dB
 SW 30 ms
 7.363782051 GHZ

 Image: State 1 dBm
 Att 25 dB
 SW 30 ms
 7.363782051 GHZ

 Image: State 1 dBm
 Att 25 dB
 SW 30 ms
 7.363782051 GHZ

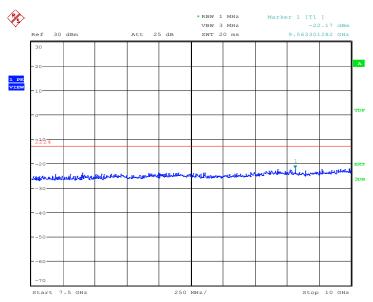
 Image: State 1 dBm
 Att 25 dB
 SW 30 ms
 7.363782051 GHZ

NOTE: peak above the limit line is the carrier frequency.

Date: 21.FEB.2012 02:11:13

A. 8.3.36 Channel 4233: 7.5GHz - 10GHz

Spurious emission limit –13dBm.

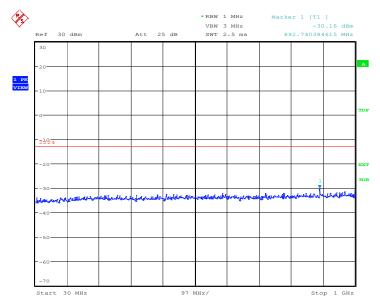


Date: 21.FEB.2012 02:11:41



A. 8.3.37 Idle mode: 30MHz – 1GHz

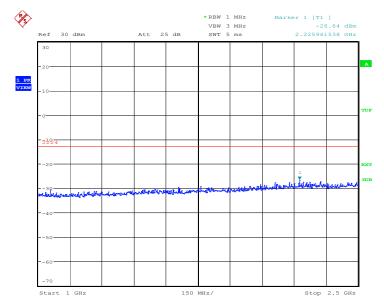
Spurious emission limit -13dBm.



Date: 21.FEB.2012 02:12:10

A.8.3.38 Idle mode: 1GHz – 2.5GHz

Spurious emission limit -13dBm.

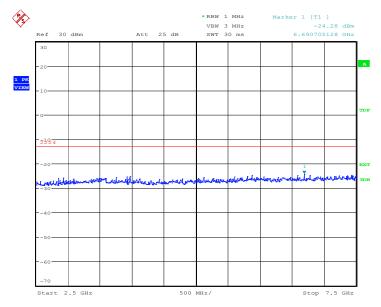


Date: 21.FEB.2012 02:12:39



A.8.3.39 Idle mode: 2.5GHz – 7.5GHz

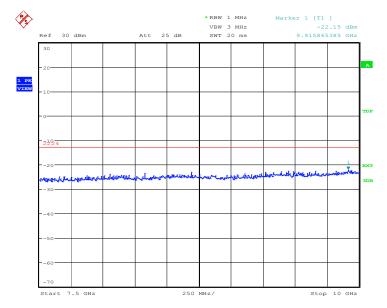
Spurious emission limit -13dBm.



Date: 21.FEB.2012 02:13:07

A.8.3.40 Idle mode: 7.5GHz – 10GHz

Spurious emission limit -13dBm.



Date: 21.FEB.2012 02:13:35

***END OF REPORT ***