

FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E TEST REPORT

For Smart Phone Model:W800;VZ750 Trade Name: MASTONE

Issued to

Yangzhou Mastone Communication & Electronics Development Co.,Ltd Unit B,14F,Zhongke Bldg.,South Dist, Shenzhen Hi-Tech Industrial Park, Shenzhen, China

Issued by

COMPLIANCE CERTIFICATION SERVICES (KUNSHAN) INC.

10#Weiye Rd, Innovation Park Eco. & Tec. Development Zone Kunshan city JiangSu, (215300) CHINA

TEL: 86-512-57355888

FAX: 86-512-57370818







Page 1 of 135 Rev. 00



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	February 22, 2011	Initial Issue	ALL	Vincent Yao



TABLE OF CONTENTS

1.	TEST RESULT CERTIFICATION	4
2.	EUT DESCRIPTION	5
3.	TEST METHODOLOGY	6
3.1	EUT CONFIGURATION	6
3.2	EUT EXERCISE	6
3.3	GENERAL TEST PROCEDURES	6
3.4	DESCRIPTION OF TEST MODES	7
4.	INSTRUMENT CALIBRATION	8
4.1	MEASURING INSTRUMENT CALIBRATION	8
4.2	MEASUREMENT EQUIPMENT USED	
4.3	MEASUREMENT UNCERTAINTY	10
5.	FACILITIES AND ACCREDITATIONS	11
5.1	FACILITIES	11
5.2	EQUIPMENT	
5.3	ACCREDITATIONS	12
6.	SETUP OF EQUIPMENT UNDER TEST	13
6.1	SETUP CONFIGURATION OF EUT	13
6.2	SUPPORT EQUIPMENT	13
7.	FCC PART 22 & 24 REQUIREMENTS	14
7.1	PEAK POWER	14
7.2	AVERAGE POWER	
7.1	ERP & EIRP MEASUREMENT	
7.2	OCCUPIED BANDWIDTH MEASUREMENT	
7.3	OUT OF BAND EMISSION AT ANTENNA TERMINALS	
7.4 7.5	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENTFREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT	
7.5 7.6	REQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT	
7.0 7.7	POWERLINE CONDUCTED EMISSIONS	



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

1. TEST RESULT CERTIFICATION

Applicant: Yangzhou Mastone Communication & Electronics Development

Co.,Ltd

Unit B,14F,Zhongke Bldg.,South Dist, Shenzhen Hi-Tech

Industrial Park, Shenzhen, China

Equipment Under Test: Smart Phone

Trade Name: MASTONE

Model Number: W800;VZ750

Date of Test: February 22, 2011

APPLICABLE STANDARDS					
STANDARD TEST RESULT					
FCC 47 CFR Part 22 Subpart H & Part 24 Subpart E	No non-compliance noted				

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2003 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 Subpart H and PART 24 Subpart E.

The test results of this report relate only to the tested sample identified in this report.

Approved by:

Branet your

Vincent Yao

RF Manager

Compliance Certification Services Inc.

Tested by:

Star Yao

Test Engineer

Compliance Certification Services Inc





2. EUT DESCRIPTION

Product	Smart Phone		
Trade Name	MASTONE		
Model Number	W800;VZ750		
Model Discrepancy	N/A		
Power Supply	Powered from an AC/DC power adapter Model Number :TPA-250505CU Input:100-240V 50/60Hz 0.2A Output:5.0V/550mA Battery Model:W800 Standard Voltage:3.7V Rating Capacity:1100mAh		
Frequency Range	GSM/GPRS / EDGE: 850: 824 ~ 849 MHz GSM/GPRS / EDGE: 1900: 1850 ~ 1910 MHz		
Transmit Power (ERP & EIRP Power)	GSM 850: 31.46 dBm GSM 1900: 31.29 dBm GPRS 850: 29.38 dBm GPRS 1900: 31.41 dBm EDGE 850: 29.38dBm EDGE 1900: 31.29dBm WCDMA Band II: 26.44 dBm WCDMA Band V: 20.90 dBm WCDMA HSDPA Band II: 26.97 dBm WCDMA HSDPA Band V: 21.05 dBm		
Modulation Technique	GSM/GPRS: GMSK EDGE: 8PSK WCDMA: QPSK		
Antenna Gain	GSM/GPRS / EDGE 850 MHz:2.03 GSM/GPRS / EDGE 1900 MHz: 3.21 dBi WCDMA band II: 2.03 dBi WCDMA band V: 3.21 dBi		
Antenna Type	PIFA Antenna		

Remark:

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- 2. This submittal(s) (test report) is intended for <u>FCC ID: Y9W-W800</u> filing to comply with Part 22 and Part 24 of the FCC 47 CFR Rules.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

3. TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4: 2003, TIA/EIA-603-C: 2004 and FCC CFR 47, Part 2, PART 22 SUBPART H AND PART 24 SUBPART E

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4: 2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4: 2003.

Page 6 of 135 Rev. 00



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

3.4 DESCRIPTION OF TEST MODES

The EUT (model: Gobi2) had been tested under operating condition.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

EUT staying in continuous transmitting mode was programmed.

GSM/GPRS / EDGE 850:

Channel Low (CH128), Channel Mid (CH190) and Channel High (CH251) were chosen for full testing.

GSM/GPRS / EDGE 1900:

Channel Low (CH512), Channel Mid (CH661) and Channel High (CH810) were chosen for full testing.

WCDMA / HSDPA Band II:

Channel Low (CH9262), Channel Mid (CH9400) and Channel High (CH9538) were chosen for full testing.

WCDMA Band V:

Channel Low (CH4132), Channel Mid (CH4182) and Channel High (CH4233) were chosen for full testing.

WCDMA / HSDPA Band V:

Channel Low (CH4132), Channel Mid (CH4182) and Channel High (CH4233) were chosen for full testing.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

Page 8 of 135 Rev. 00





4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Conducted Emissions Test Site								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	Agilent	E4446A	MY44020154	05/26/2011				
DETECTOR NEGATIVE	Agilent	8473B	MY42240176	10/05/2011				
OSCILLOSCOPE	Agilent	DSO6104A	MY44002585	11/20/2011				
Peak and Avg Power Sensor	Agilent	E9327A	US40441788	10/31/2011				
EPM-P Series Power Meter	Agilent	E4416A	GB41292714	10/31/2012				
Power SPLITTER	Mini-Circuits	ZN2PD-9G	SF078500430	07/29/2011				
DC POWER SUPPLY	GW instek	GPS-3303C	E903131	10/18/2011				
Temp. / Humidity Chamber	Kingson	THS-M1	242	11/16/2011				

977 Chamber							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	E4446A	MY44020154	05/26/2011			
Spectrum Analyzer	Agilent	E4446A	US44300398	05/26/2011			
EMI Test Receiver	R&S	ESPI3	101026	05/26/2011			
Pre-Amplfier	MINI	ZFL-1000VH2	d041703	04/29/2011			
Pre-Amplfier	Miteq	NSP4000-NF	870731	04/29/2011			
Bilog Antenna	Sunol	JB1	A110204-2	11/22/2011			
Horn-antenna	SCHWARZBECK	BBHA9120D	D:266	12/04/2011			
PSG Analog Signal Generator	Agilent	E8257C	MY43321570	05/26/2011			
Turn Table	СТ	CT123	4165	N.C.R			
Antenna Tower	СТ	CTERG23	3256	N.C.R			
Controller	СТ	CT100	95637	N.C.R			
Site NSA	ccs	N/A	N/A	04/06/2011			

Conducted Emission							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
EMC Receiver	R&S	ESCI3	100781	05/26/2011			
V (V-LISN)	Schwarzbeck	NNLK 8129	8129-143	05/26/2011			
LISN (EUT)	FCC	FCC-LISN-50/250- 50-2-02	SN:05012	05/26/2011			
TRANSIENT LIMITER	SCHAFFNER	CFL9206	1710	05/26/2011			
RF Current Probe	FCC	F-65A	147	05/26/2011			

Remark: Each piece of equipment is scheduled for calibration once a year.

Page 9 of 135 Rev. 00



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

4.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETR 028:

Measurement		Frequency	Uncertainty
Conducted emissions		9kHz~30MHz	+/- 3.43dB
	Н	30MHz ~ 200MHz	+/- 4.72dB
Radiated emissions	11	200MHz ~1000MHz	+/- 4.72dB
	s v	30MHz ~ 200MHz	+/- 4.83dB
	V	200MHz ~1000MHz	+/- 4.70dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

 No.10Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

5.3 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA FCC,A2LA VCCI

Canada INDUSTRY CANADA,

Taiwan TAF China CNAS

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsrf.com.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	FCC ID	Series No.	Data Cable	Power Cord
N/A							

Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



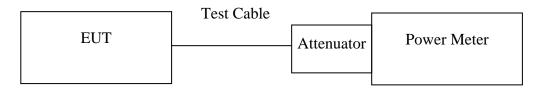
7. FCC PART 22 & 24 REQUIREMENTS

7.1 PEAK POWER

LIMIT

According to FCC §2.1046.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

TEST RESULTS

No non-compliance noted.

Page 14 of 135



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Data

Test Mode	СН	Frequency (MHz)	Peak Power (dBm)
	128	824.20	31.62
GSM 850	190	836.60	31.07
	251	848.80	30.94
	128	824.20	31.79
GPRS 850 (Class 12)	190	836.60	31.22
(0.000 1-)	251	848.80	31.07
EDGE 850	128	824.20	31.81
(Class 12)	190	836.60	31.25
	251	848.80	31.09

Test Mode	СН	Frequency (MHz)	Peak Power (dBm)
	512	1850.20	29.18
GSM 1900	661	1880.00	29.68
	810	1909.80	29.06
	512	1850.20	29.15
GPRS 1900 (Class 12)	661	1880.00	29.66
	810	1909.80	29.04
EDGE 1900	512	1850.20	29.18
(Class 12)	661	1880.00	29.69
	810	1909.80	29.07





Remark: The value of factor includes both the loss of cable and external attenuator

Test Mode	СН	Frequency (MHz)	Peak Power (dBm)
	9262	1852.40	24.12
WCDMA (BAND II)	9400	1880.00	24.22
	9538	1907.60	24.61
	4132	826.40	24.78
WCDMA (BAND V)	4182	836.40	23.91
(5/1115 1)	4233	846.60	24.12

Test Mode	СН	Frequency (MHz)	Peak Power (dBm)
WCDMA/	9262	1852.40	22.12
HSDPA	9400	1880.00	22.24
(BAND II)	9538	1907.60	22.51
WCDMA/	4132	826.40	22.72
HSDPA	4182	836.40	22.63
(BAND V)	4233	846.60	22.58

Remark: The value of factor includes both the loss of cable and external attenuator

Page 16 of 135



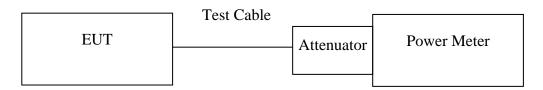
Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

7.2 AVERAGE POWER

<u>LIMIT</u>

For reporting purposes only.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

TEST RESULTS

No non-compliance noted.



TEST RESULTS

No non-compliance noted.

Test Data

Test Mode	СН	Frequency (MHz)	AVG Power (dBm)
	128	824.20	31.57
GSM 850	190	836.60	31.00
	251	848.80	30.98
	128	824.20	31.64
GPRS 850 (Class 12)	190	836.60	31.12
(3.5.55 1=)	251	848.80	30.91
EDGE 850	128	824.20	31.67
(Class 12)	190	836.60	31.20
	251	848.80	31.11

Test Mode	СН	Frequency (MHz)	AVG Power (dBm)
	512	1850.20	29.11
GSM 1900	661	1880.00	29.57
	810	1909.80	29.01
	512	1850.20	29.12
GPRS 1900 (Class 12)	661	1880.00	29.49
(810	1909.80	28.96
EDGE 1900	512	1850.20	29.07
(Class 12)	661	1880.00	29.51
	810	1909.80	29.00

Remark: The value of factor includes both the loss of cable and external attenuator



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Mode	СН	Frequency (MHz)	AVG Power (dBm)
	9262	1852.40	23.94
WCDMA (BAND II)	9400	1880.00	23.96
(=: :: -: ::)	9538	1907.60	24.16
	4132	826.40	24.53
WCDMA (BAND V)	4182	836.40	23.57
(=: .	4233	846.60	23.96

Test Mode	Test Mode CH		AVG Power (dBm)
WCDMA/	9262	1852.40	22.04
HSDPA	9400	1880.00	22.09
(BAND II)	9538	1907.60	22.30
WCDMA/	4132	826.40	22.49
HSDPA	4182	836.40	22.47
(BAND V)	4233	846.60	22.43

Remark: The value of factor includes both the loss of cable and external attenuator



7.1 ERP & EIRP MEASUREMENT

LIMIT

According to FCC §2.1046

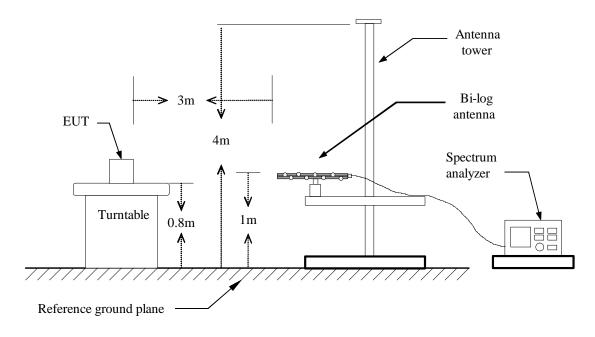
FCC 22.913(a): The Effective Radiated Power (ERP) of mobile transmitters must not

exceed 7 Watts.

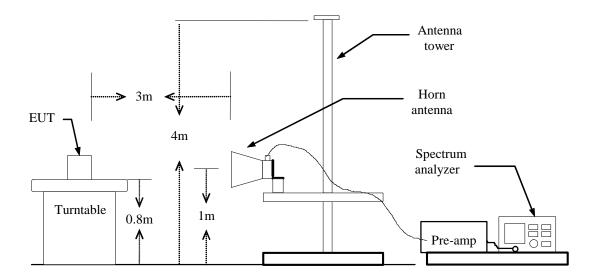
FCC 24.232(b): The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

Test Configuration

Below 1 GHz



Above 1 GHz

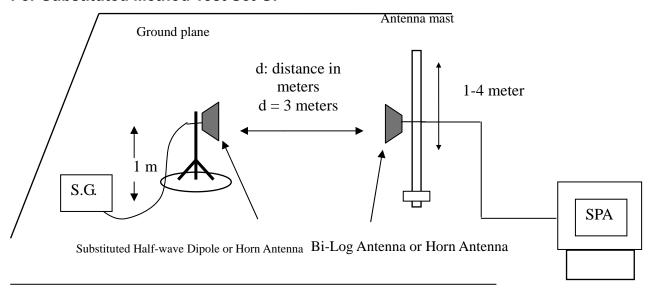


Page 20 of 135



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

For Substituted Method Test Set-UP



TEST PROCEDURE

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement of the EUT, the resolution bandwidth was set to 3MHz and the average bandwidth was set to 3MHz. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824-849MHz, and EIRP in frequency band 1851.25 –1910MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (824-849MHz) or horn antenna (1851.25-1910MHz) connected to a signal generator. The spectrum analyzer reading was recorded and ERP/EIRP was calculated as follows:

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) - Cable (dB)

TEST RESULTS

No non-compliance noted.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

GSM 850 TEST DATA

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.18	V	-14.55	34.62	20.06	38.50	-18.44
120	824.30	Н	-3.19	34.65	*31.46	38.50	-7.04
190	836.66	V	-17.44	34.53	17.09	38.50	-21.41
190	836.78	Н	-4.32	34.63	30.31	38.50	-8.19
251	848.84	V	-16.76	34.64	17.88	38.50	-20.62
231	848.84	Н	-5.53	34.75	29.22	38.50	-9.28

GSM 1900 TEST DATA

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.10	V	-9.88	41.17	*31.29	33.00	-1.71
312	1850.00	Н	-16.29	40.79	24.50	33.00	-8.50
661	1880.00	V	-9.99	41.23	31.24	33.00	-1.76
001	1879.80	Н	-17.55	41.14	23.59	33.00	-9.41
810	1909.90	V	-10.95	41.30	30.36	33.00	-2.64
010	1909.90	Н	-17.23	41.38	24.15	33.00	-8.85

GPRS 850 TEST DATA

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.18	V	-12.78	34.62	21.83	38.50	-16.67
120	824.18	Н	-5.26	34.65	29.38	38.50	-9.12
190	836.54	V	-15.70	34.53	18.83	38.50	-19.67
190	836.54	Н	-5.79	34.63	28.84	38.50	-9.66
251	848.78	V	-19.46	34.64	15.18	38.50	-23.32
231	849.08	Н	-6.95	34.75	27.80	38.50	-10.70

GPRS 1900 TEST DATA

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.20	V	-12.03	41.17	29.15	33.00	-3.85
312	1850.20	Н	-16.02	40.79	24.77	33.00	-8.23
661	1879.80	V	-10.48	41.23	30.75	33.00	-2.25
001	1879.80	Н	-17.36	41.14	23.79	33.00	-9.21
810	1909.70	V	-9.89	41.30	*31.41	33.00	-1.59
010	1909.70	Н	-16.75	41.38	24.62	33.00	-8.38





EDGE 850 Test Data

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.18	V	-12.78	34.62	21.83	38.50	-16.67
120	824.18	Н	-5.26	34.65	29.38	38.50	-9.12
190	836.54	V	-15.70	34.53	18.83	38.50	-19.67
190	836.54	Н	-5.79	34.63	28.84	38.50	-9.66
251	848.78	V	-19.46	34.64	15.18	38.50	-23.32
201	849.08	Н	-6.95	34.75	27.80	38.50	-10.70

EDGE 1900 Test Data

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.10	V	-9.88	41.17	*31.29	33.00	-1.71
312	1850.00	Н	-16.29	40.79	24.50	33.00	-8.50
661	1880.00	V	-9.99	41.23	31.24	33.00	-1.76
001	1879.80	Н	-17.55	41.14	23.59	33.00	-9.41
810	1909.90	V	-10.95	41.30	30.36	33.00	-2.64
010	1909.90	Н	-17.23	41.38	24.15	33.00	-8.85





WCDMA Test Data (BAND II)

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
9262	1852.40	V	-14.74	41.18	*26.44	33.00	-6.56
9202	1852.40	Н	-22.95	40.83	17.89	33.00	-15.11
9400	1880.00	V	-15.19	41.23	26.04	33.00	-6.96
9400	1880.00	Н	-22.79	41.13	18.34	33.00	-14.66
9538	1907.60	V	-17.13	41.29	24.16	33.00	-8.84
9000	1907.60	Н	-24.08	41.38	17.29	33.00	-15.71

WCDMA Test Data (BAND V)

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4132	826.40	V	-19.68	34.59	14.91	38.45	-23.59
4132	826.40	Н	-15.78	34.64	18.87	38.45	-19.63
4182	836.40	V	-17.36	34.54	17.18	38.45	-21.32
4102	836.40	Н	-13.96	34.63	20.67	38.45	-17.83
4233	846.60	V	-17.08	34.58	17.50	38.45	-21.00
	846.60	Н	-13.80	34.70	*20.90	38.45	-17.60

WCDMA / HSDPA BAND II Test Data

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
9262	1852.40	V	-14.20	41.18	*26.97	33.00	-6.03
9262	1852.40	Н	-22.96	40.83	17.87	33.00	-15.13
0400	1880.00	V	-14.89	41.23	26.34	33.00	-6.66
9400	1880.00	Н	-22.56	41.13	18.57	33.00	-14.43
9538	1907.60	V	-16.06	41.29	25.23	33.00	-7.77
	1907.60	Н	-23.48	41.38	17.90	33.00	-15.10

WCDMA / HSDPA BAND V Test Data

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4132	826.40	V	-19.36	34.59	15.23	38.45	-23.27
4132	826.40	Н	-15.45	34.64	19.19	38.45	-19.31
4182	836.40	V	-16.78	34.54	17.76	38.45	-20.74
4102	836.40	Н	-13.72	34.63	20.92	38.45	-17.58
4233	846.60	V	-16.75	34.58	17.84	38.45	-20.66
	846.60	Н	-13.65	34.70	*21.05	38.45	-17.45



Report No.: KS110218A01-RP1 F

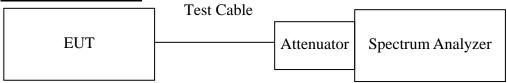
FCC ID:Y9W-W800 Date of Issue: February 22, 2011

7.2 OCCUPIED BANDWIDTH MEASUREMENT

LIMIT

According to §FCC 2.1049.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW is set to 3 times the RBW, -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

No non-compliance noted

Page 25 of 135



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Data

Test Mode	СН	Frequency (MHz)	99% Bandwidth (kHz)
	128	824.20	250.2633
GSM 850	190	836.60	251.1913
	251	848.80	248.1001
	128	824.20	249.5487
GPRS 850	190	836.60	251.0261
	251	848.80	244.0734
	128	824.20	241.9944
EDGE 850	190	836.60	247.9873
	251	848.80	245.0568

Test Mode	СН	Frequency (MHz)	99% Bandwidth (kHz)
	512	1850.20	247.2387
GSM 1900	661	1880.00	250.7300
	810	1909.80	250.3317
	512	1850.20	239.8324
GPRS 1900	661	1880.00	251.1834
	810	1909.80	243.0610
	512	1850.20	240.4764
EDGE 1900	661	1880.00	244.5419
	810	1909.80	247.7910



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

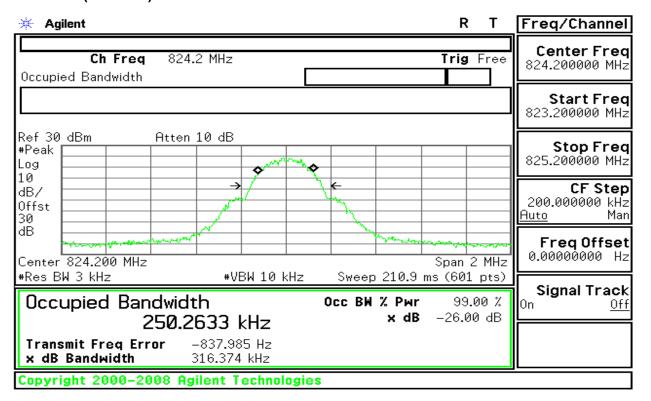
Test Mode	СН	Frequency (MHz)	99% Bandwidth (MHz)
	9262	1852.40	4.1779
WCDMA (Band II)	9400	1880.00	4.1786
,	9538	1907.60	4.1680
	4132	826.40	4.1647
WCDMA (Band V)	4182	836.40	4.1745
,	4233	846.60	4.1772
WCDMA/	9262	1852.40	4.1900
HSDPA	9400	1880.00	4.1899
(BAND II)	9538	1907.60	4.1659
WCDMA/	4132	826.40	4.1911
HSDPA	4182	836.40	4.2002
(BAND V)	4233	846.60	4.1968



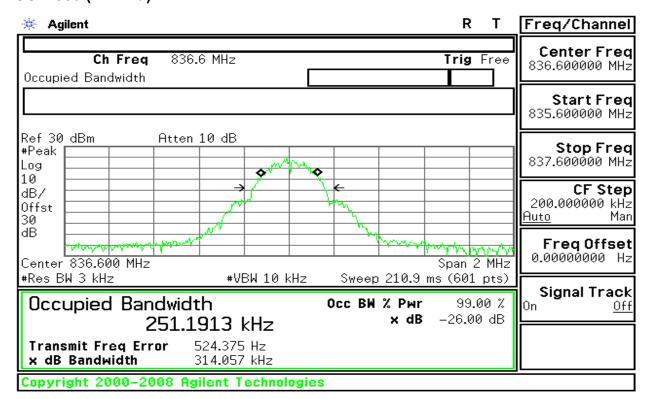
Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Plot

GSM 850 (CH Low)



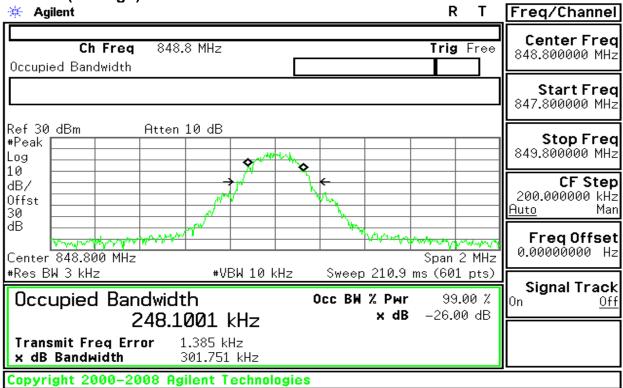
GSM 850 (CH Mid)



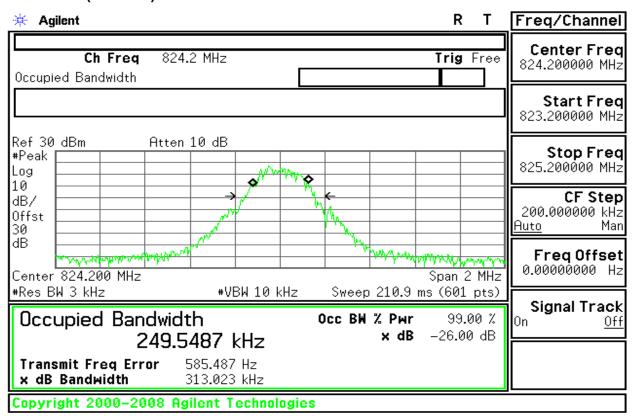


Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

GSM 850(CH High)



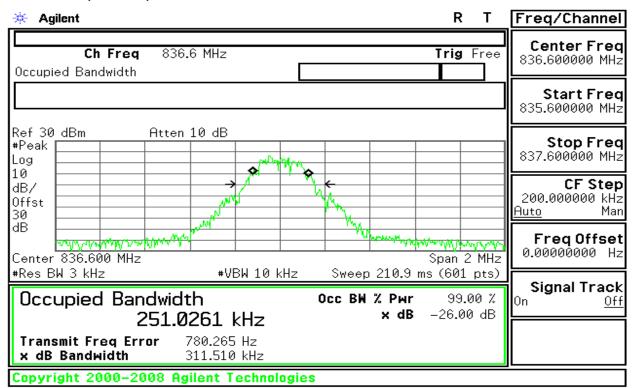
GPRS 850 (CH Low)



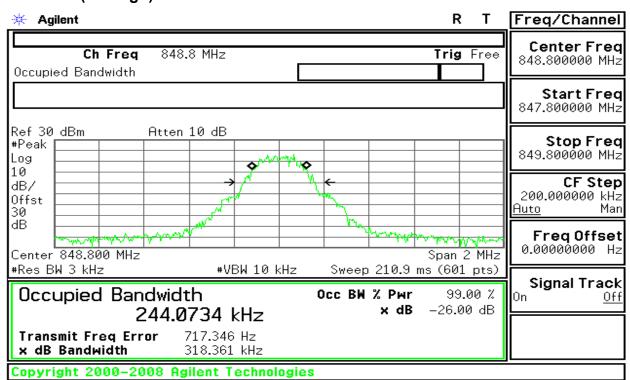


Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

GPRS 850 (CH Mid)



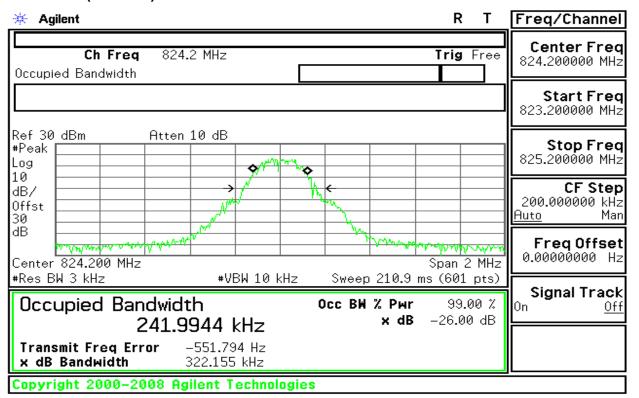
GPRS 850(CH High)



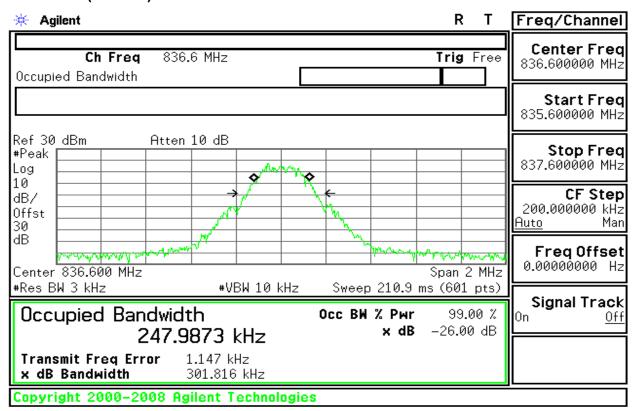


Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

EDGE 850 (CH Low)



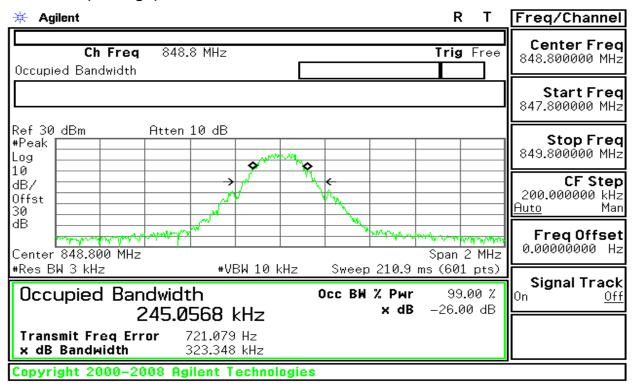
EDGE 850 (CH Mid)



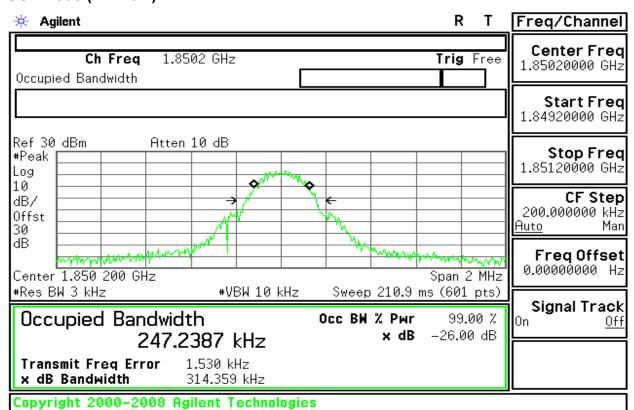


Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

EDGE 850 (CH High)



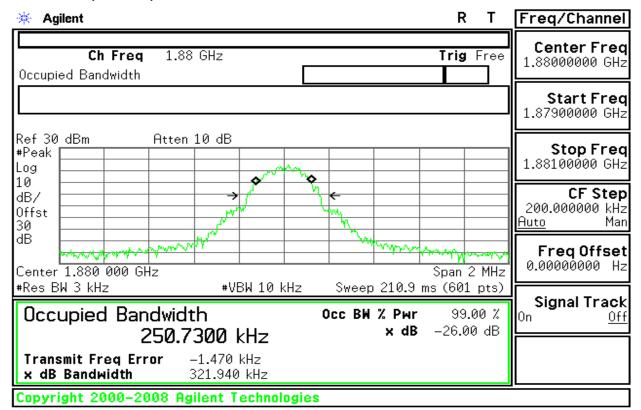
GSM 1900 (CH Low)



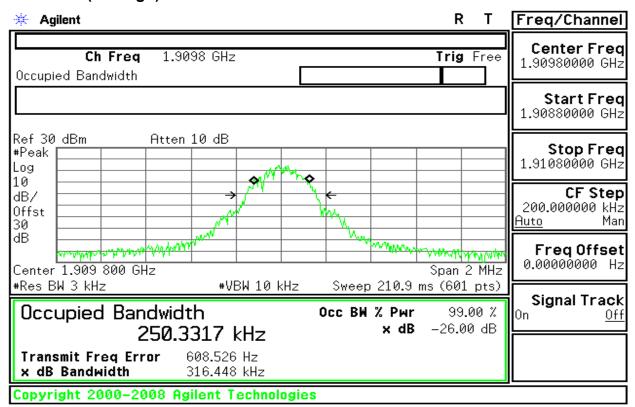


Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

GSM 1900 (CH Mid)



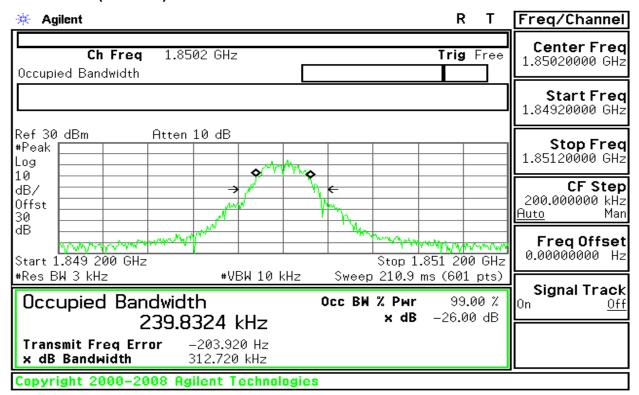
GSM 1900 (CH High)



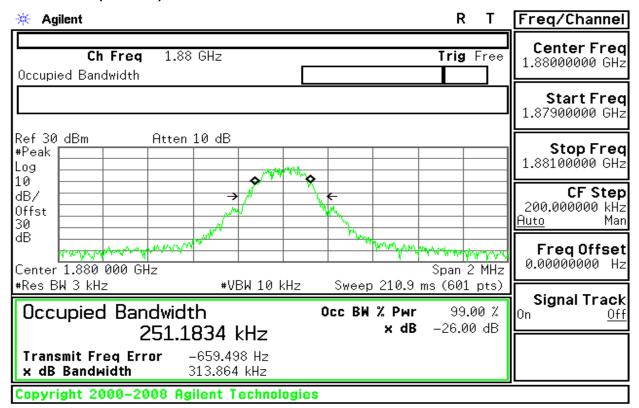


Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

GPRS 1900 (CH Low)



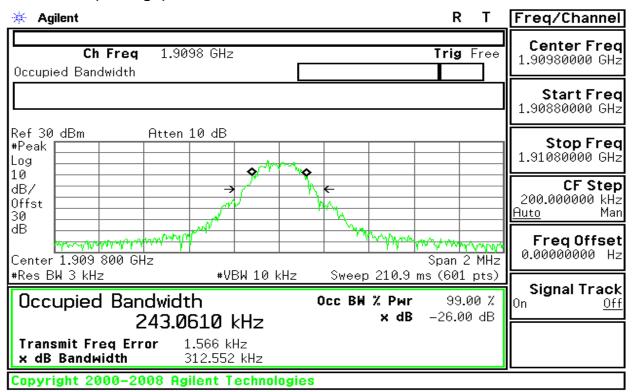
GPRS 1900 (CH Mid)



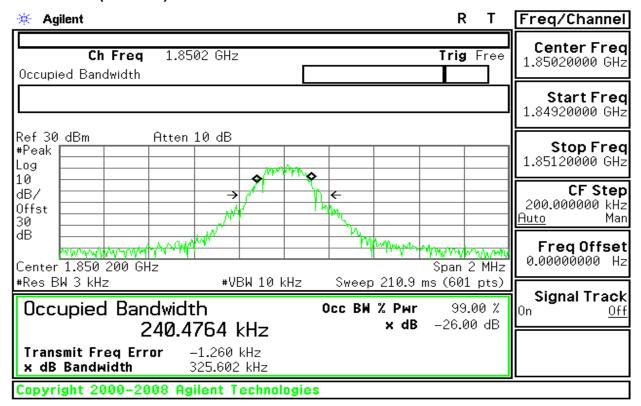


Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

GPRS 1900 (CH High)



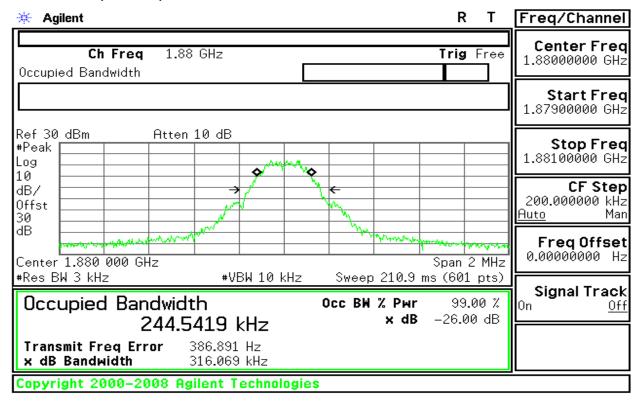
EDGE 1900 (CH Low)



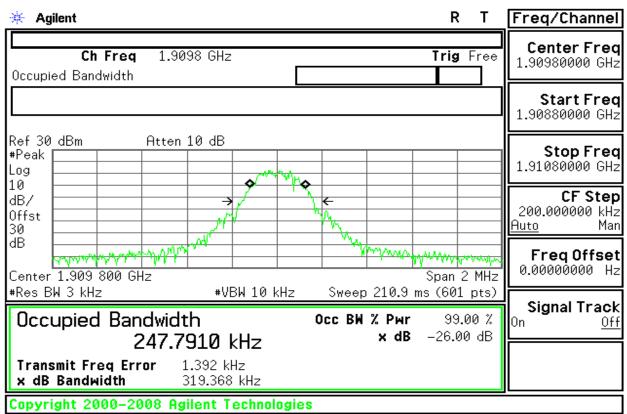


Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

EDGE 1900 (CH Mid)



EDGE 1900 (CH High)



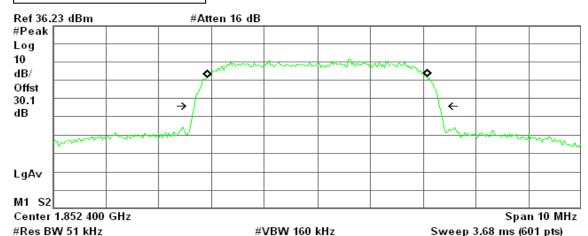


Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011



Vestion (Street, Street, Stree

R T

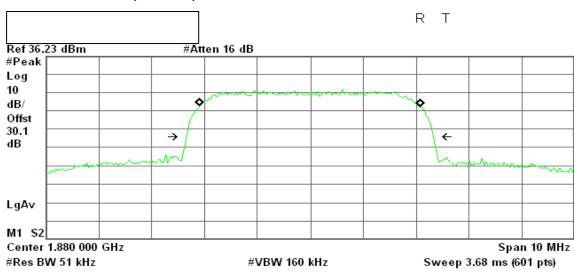


Occupied Bandwidth
4.1779 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -1.566 kHz x dB Bandwidth 4.640 MHz

WCDMA Band II (CH Mid)



Occupied Bandwidth 4.1786 MHz

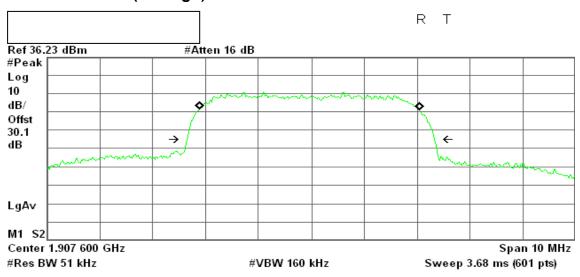
Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -5.351 kHz x dB Bandwidth 4.680 MHz



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

WCDMA Band II (CH High)

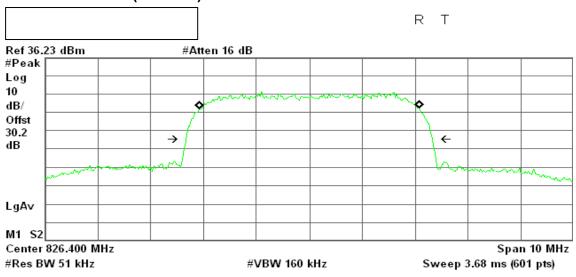


Occupied Bandwidth
4.1680 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -34.028 kHz x dB Bandwidth 4.684 MHz

WCDMA Band V (CH Low)



Occupied Bandwidth 4.1647 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

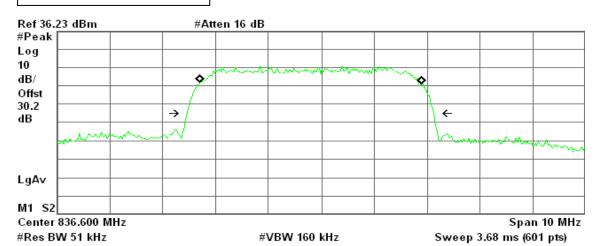
Transmit Freq Error 985.475 Hz x dB Bandwidth 4.669 MHz



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

WCDMA Band V (CH Mid)

R T

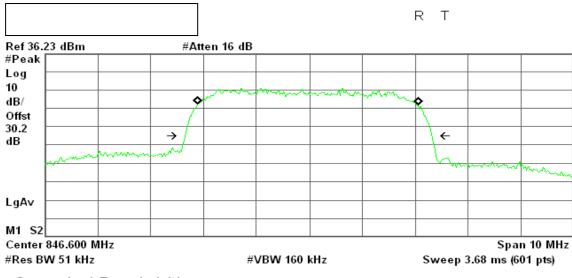


Occupied Bandwidth 4.1745 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -208.798 kHz x dB Bandwidth 4.669 MHz

WCDMA Band V (CH High)



Occupied Bandwidth 4.1772 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

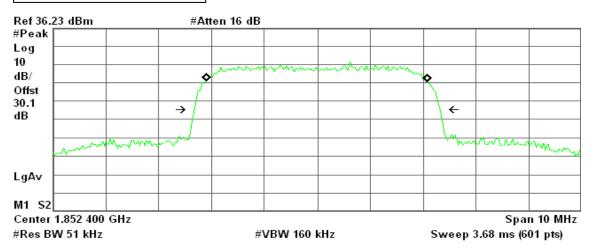
Transmit Freq Error -24.444 kHz x dB Bandwidth 4.671 MHz



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

WCDMA / HSDPA Band II (CH Low)

R T

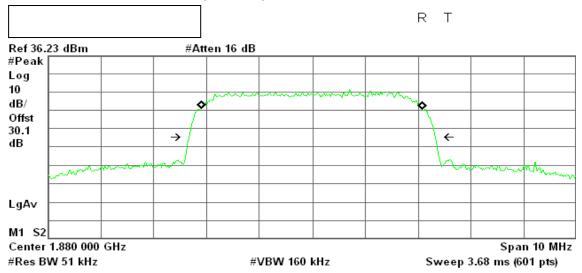


Occupied Bandwidth
4.1900 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -11.986 kHz x dB Bandwidth 4.659 MHz

WCDMA / HSDPA Band II (CH Mid)



Occupied Bandwidth
4.1899 MHz

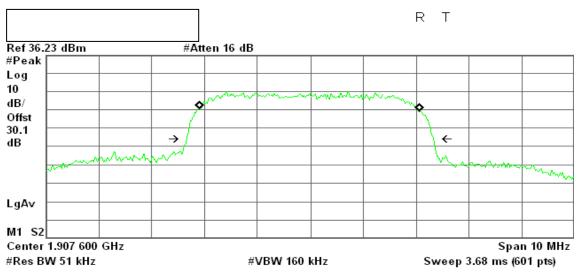
Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -9.402 kHz x dB Bandwidth 4.665 MHz



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

WCDMA / HSDPA Band II (CH High)

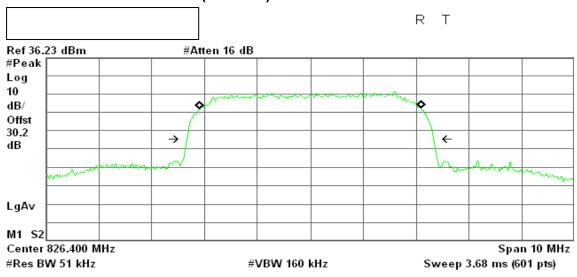


Occupied Bandwidth
4.1659 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -24.258 kHz x dB Bandwidth 4.676 MHz

WCDMA / HSDPA Band V (CH Low)



Occupied Bandwidth
4.1911 MHz

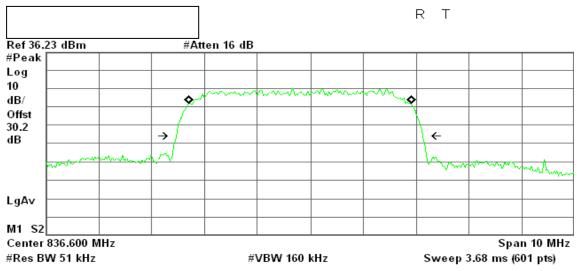
Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error 2.178 kHz x dB Bandwidth 4.669 MHz



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

WCDMA / HSDPA Band V (CH Mid)

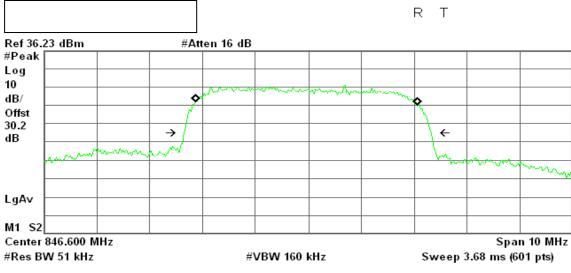


Occupied Bandwidth
4.2002 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -202.181 kHz x dB Bandwidth 4.666 MHz

WCDMA / HSDPA Band V (CH High)



Occupied Bandwidth
4.1968 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -36.135 kHz x dB Bandwidth 4.683 MHz



7.3 OUT OF BAND EMISSION AT ANTENNA TERMINALS

<u>LIMIT</u>

According to FCC §2.1051, FCC §22.917, FCC §24.238(a).

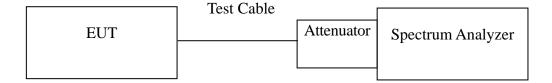
<u>Out of Band Emissions:</u> The mean power of emission must be attenuated below the mean power of the non-modulated carrier (P) on any frequency twice or more than twice the fundamental frequency by at lease 43 + 10 log P dB.

Mobile Emissions in Base Frequency Range: The mean power of any emissions appearing in the base station frequency range from cellular mobile transmitters operated must be attenuated to a level not exceed –80 dBm at the transmit antenna connector.

Band Edge Requirements: In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at lease 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the Out of band Emission

Test Configuration

Out of band emission at antenna terminals:



TEST PROCEDURE

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm

Band Edge Requirements (824 MHz and 849 MHz /1850MHz and 1910MHz): In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

TEST RESULTS

No non-compliance noted.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Data

Mode	СН	Location	Description
	128	Figure 5-1	Conducted spurious emissions, 30MHz - 20GHz
GSM 850	190	Figure 5-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 5-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
	512	Figure 6-1	Conducted spurious emissions, 30MHz - 20GHz
GSM 1900	661	Figure 6-2	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 6-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
GSM 850	128	Figure 3-1	Band Edge emissions
	251	Figure 3-2	Band Edge emissions

Mode	СН	Location	Description
GSM 1900	512	Figure 4-1	Band Edge emissions
	810	Figure 4-2	Band Edge emissions

Mode	СН	Location	Description
GPRS 850	128	Figure 7-1	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 7-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 7-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
	512	Figure 8-1	Conducted spurious emissions, 30MHz - 20GHz
GPRS 1900	661	Figure 8-2	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 8-3	Conducted spurious emissions, 30MHz - 20GHz

Page 44 of 135





Mode	СН	Location	Description
GPRS 850	128	Figure 9-1	Band Edge emissions
	251	Figure 9-2	Band Edge emissions

Mode	СН	Location	Description
GPRS 1900	512	Figure 10-1	Band Edge emissions
	810	Figure 10-2	Band Edge emissions

Mode	СН	Location	Description
	128	Figure 11-1	Conducted spurious emissions, 30MHz - 20GHz
EDGE 850	190	Figure 11-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 11-3	Conducted spurious emissions, 30MHz - 20GHz
EDGE 1900	512	Figure 11-4	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 11-5	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 11-6	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
EDGE 850	128	Figure 12-1	Band Edge emissions
	251	Figure 12-2	Band Edge emissions
EDGE 1900	512	Figure 12-3	Band Edge emissions
	810	Figure 12-4	Band Edge emissions





Mode	СН	Location	Description
	9262	Figure 13-1	Conducted spurious emissions, 30MHz - 20GHz
WCDMA (Band II)	9400	Figure 13-2	Conducted spurious emissions, 30MHz - 20GHz
	9538	Figure 13-3	Conducted spurious emissions, 30MHz - 20GHz
WCDMA (Band V)	4132	Figure 13-4	Conducted spurious emissions, 30MHz - 20GHz
	4182	Figure 13-5	Conducted spurious emissions, 30MHz - 20GHz
	4233	Figure 13-6	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
WCDMA	9262	Figure 14-1	Band Edge emissions
(Band II)	9538	Figure 14-2	Band Edge emissions
WCDMA (Band V)	4132	Figure 14-3	Band Edge emissions
	4233	Figure 14-4	Band Edge emissions



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Plot

GSM 850

Figure 5-1: Out of Band emission at antenna terminals – GSM CH Low

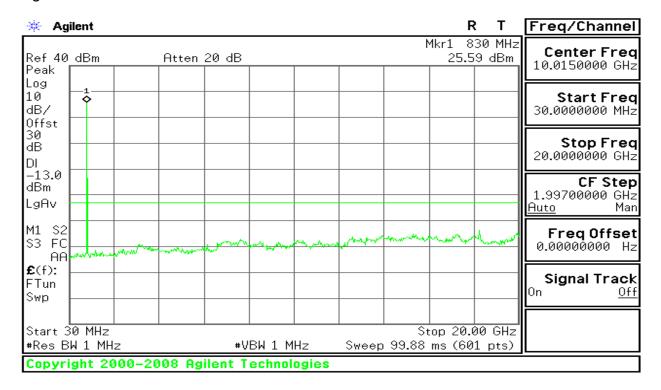
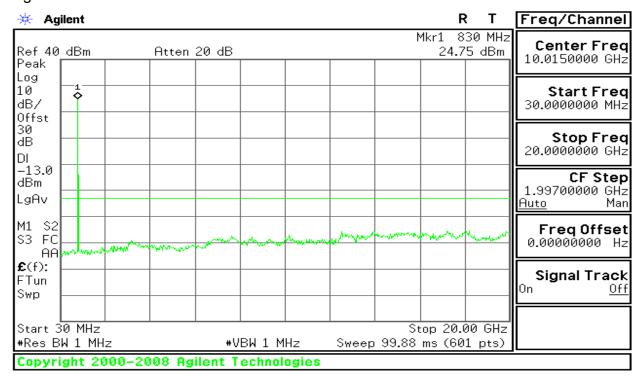


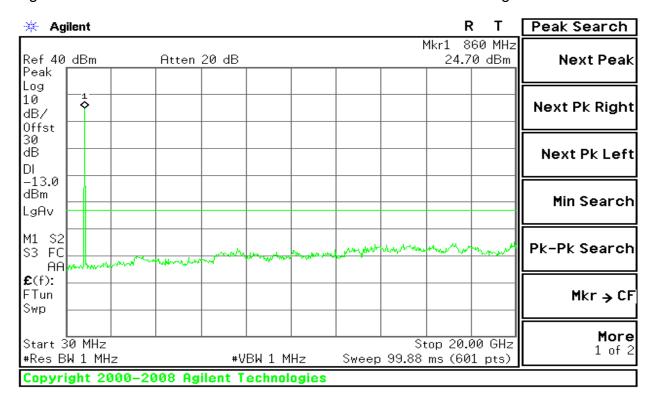
Figure 5-2: Out of Band emission at antenna terminals – GSM CH Mid



Page 47 of 135

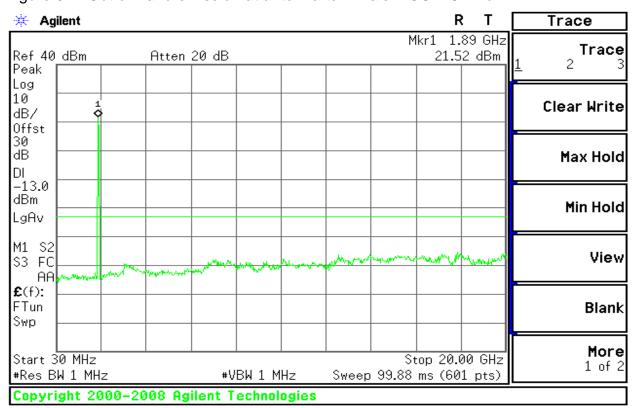


Figure 5-3: Out of Band emission at antenna terminals - GSM CH High



GSM 1900

Figure 6-1: Out of Band emission at antenna terminals – GSM CH Low



Page 48 of 135



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Figure 6-2: Out of Band emission at antenna terminals – GSM CH Mid

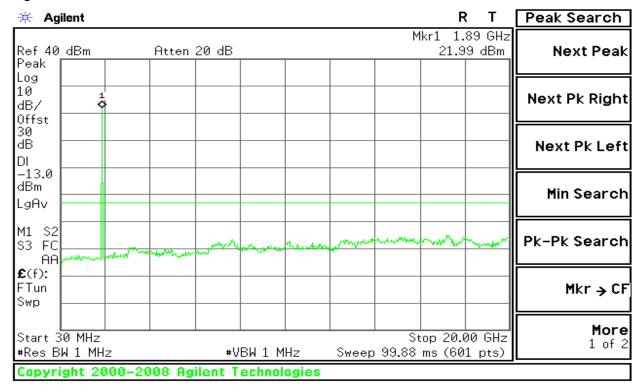
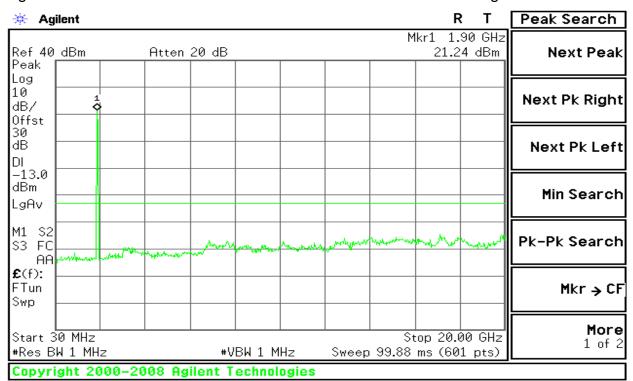


Figure 6-3: Out of Band emission at antenna terminals – GSM CH High



Page 49 of 135



GSM 850

Figure 3-1: Band Edge emissions – GSM CH Low

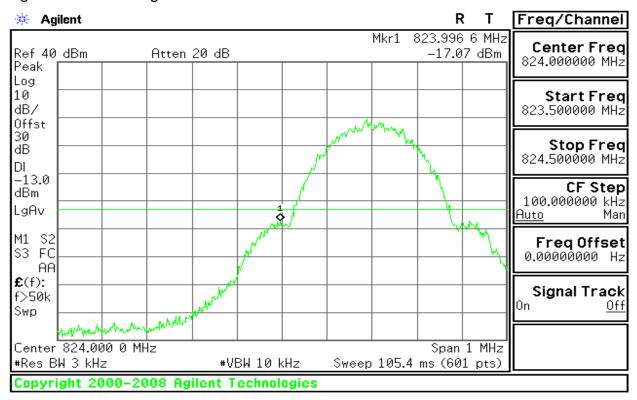
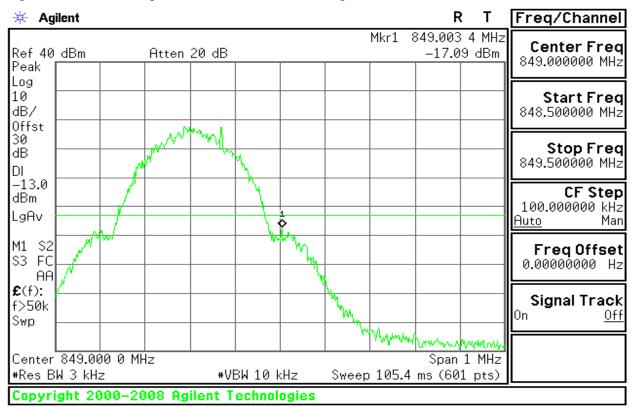


Figure 3-2: Band Edge emissions –GSM CH High



Page 50 of 135



GSM 1900

Figure 4-1: Band Edge emissions – GSM CH Low

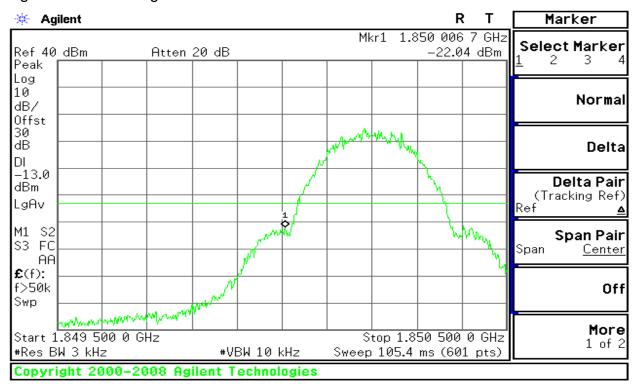
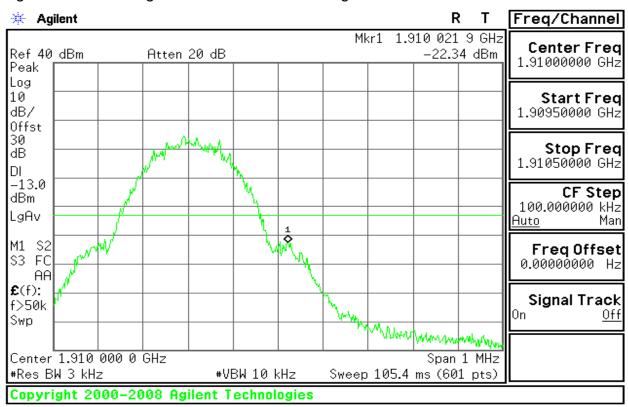


Figure 4-2: Band Edge emissions – GSM CH High



Page 51 of 135



Report No.: KS110218A01-RP1

FCC ID:Y9W-W800 Date of Issue: February 22, 2011

GPRS 850

Figure 7-1: Out of Band emission at antenna terminals – GPRS CH Low

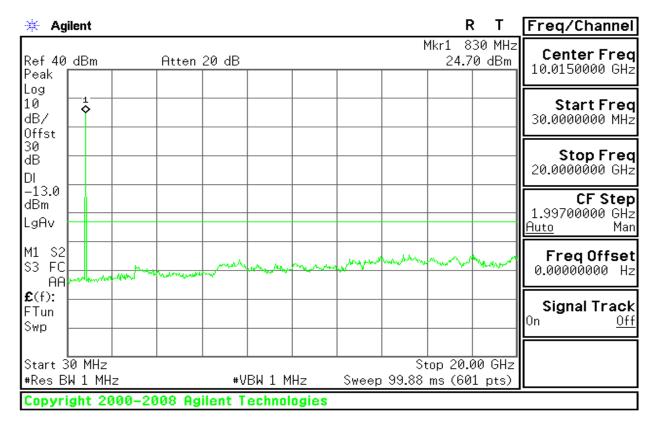
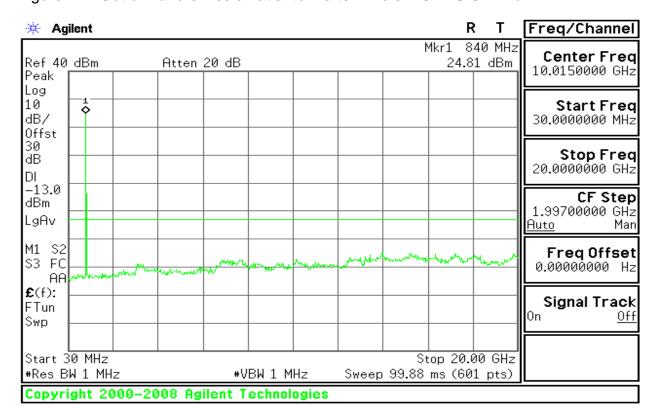


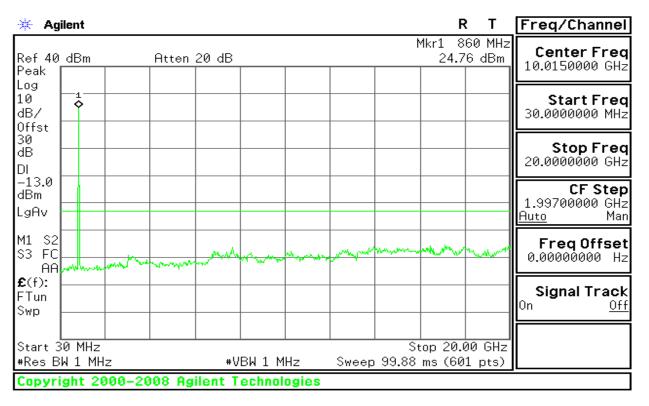
Figure 7-2: Out of Band emission at antenna terminals – GPRS CH Mid



Page 52 of 135

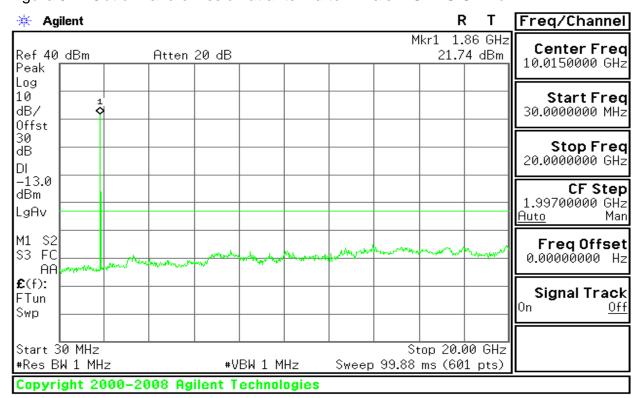


Figure 7-3: Out of Band emission at antenna terminals – GPRS CH High



GPRS 1900

Figure 8-1: Out of Band emission at antenna terminals - GPRS CH Low



Page 53 of 135

T_t

Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Figure 8-2: Out of Band emission at antenna terminals – GPRS CH Mid

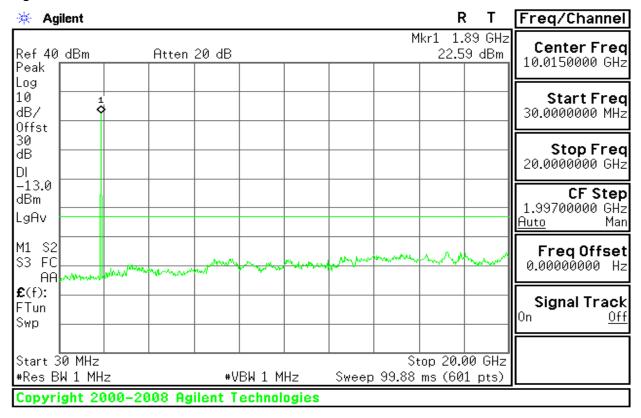
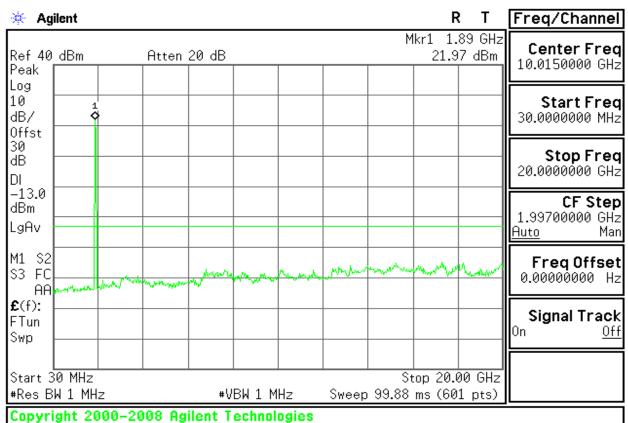


Figure 8-3: Out of Band emission at antenna terminals – GPRS CH High





GPRS 850

Figure 9-1: Band Edge emissions – GPRS CH Low

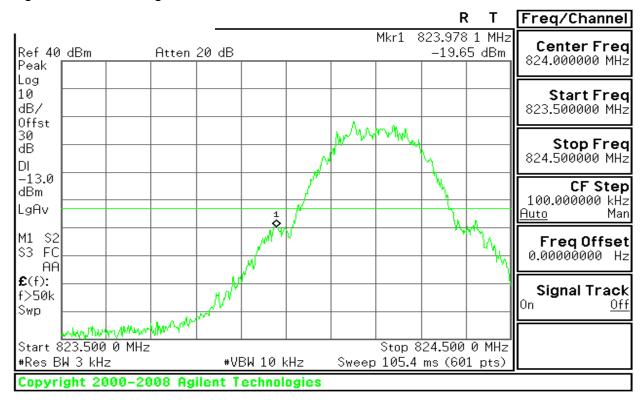
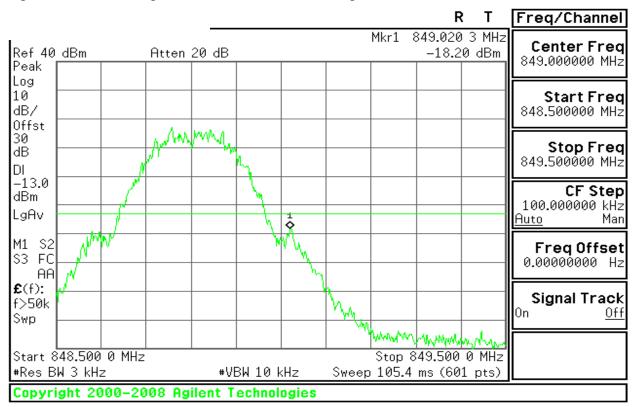


Figure 9-2: Band Edge emissions -GPRS CH High



Page 55 of 135



GPRS 1900

Figure 10-1: Band Edge emissions - GPRS CH Low

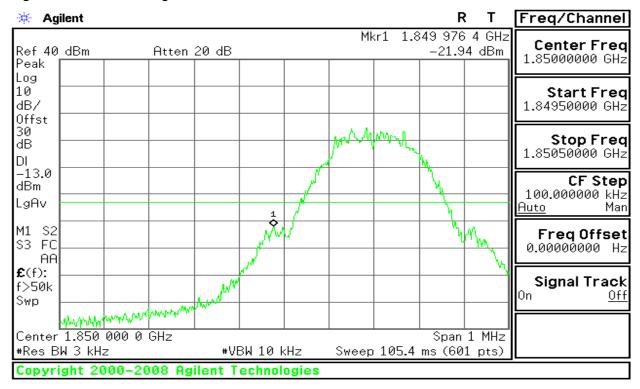
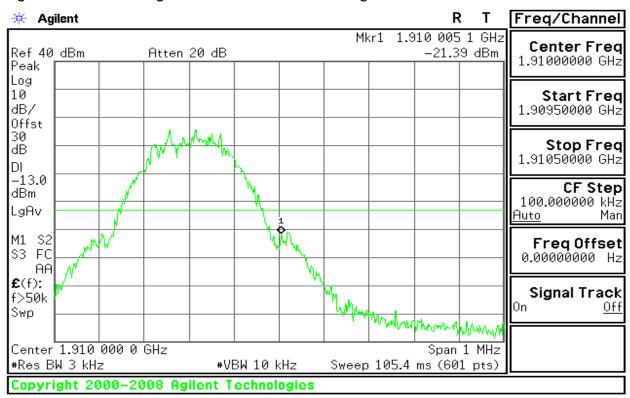


Figure 10-2: Band Edge emissions – GPRS CH High



Page 56 of 135



EDGE 850

Figure 11-1: Out of Band emission at antenna terminals –EDGE CH Low

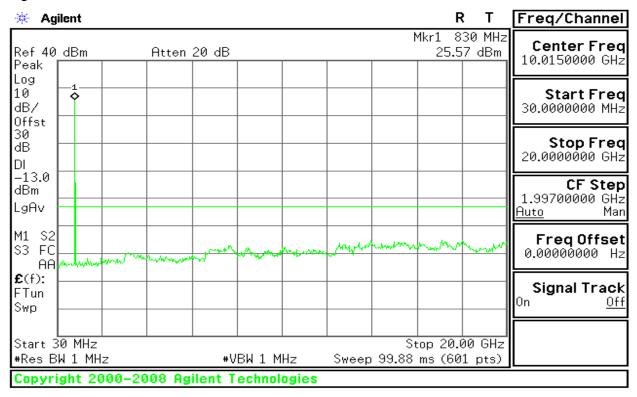
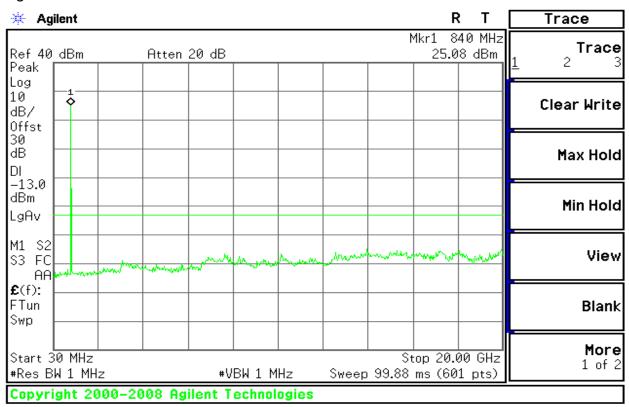


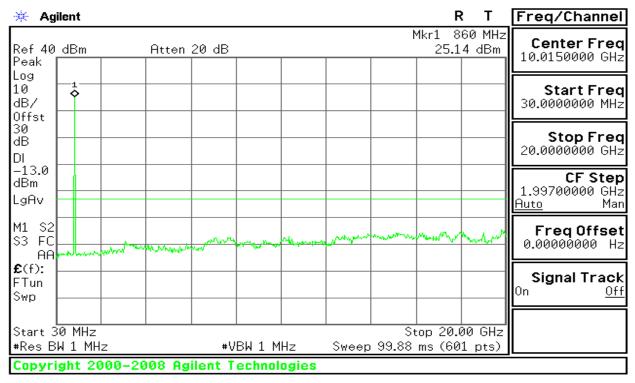
Figure 11-2: Out of Band emission at antenna terminals –EDGE CH Mid



Page 57 of 135



Figure 11-3: Out of Band emission at antenna terminals –EDGE CH High



EDGE 1900

Figure 11-4: Out of Band emission at antenna terminals -EDGE CH Low

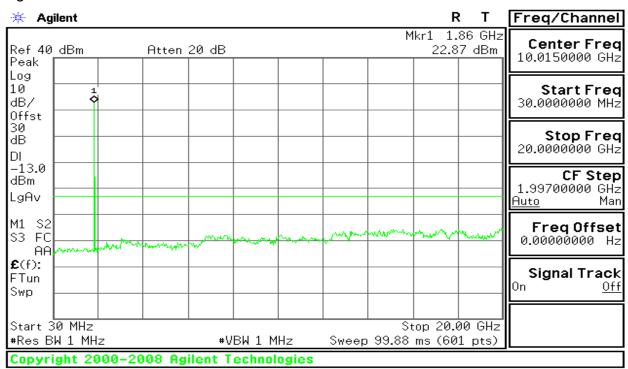




Figure 11-5: Out of Band emission at antenna terminals -EDGE CH Mid

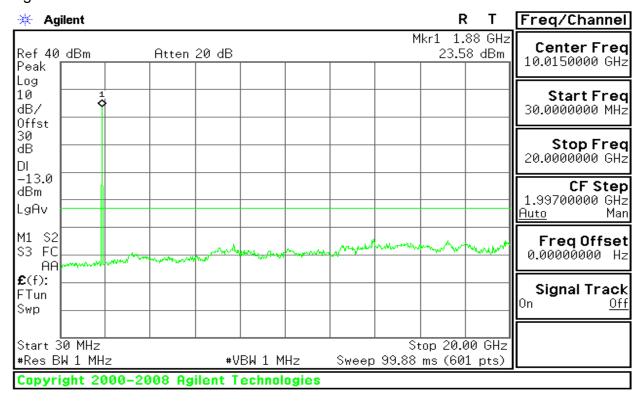
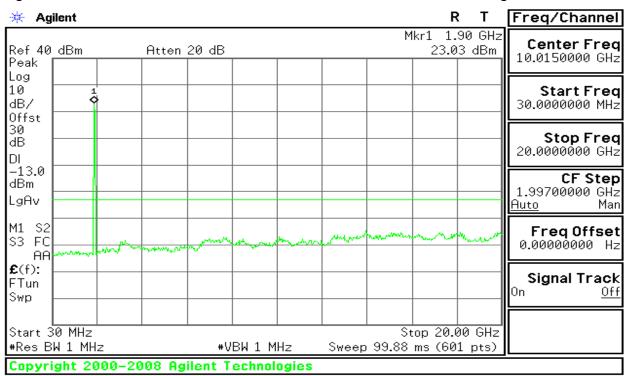


Figure 11-6: Out of Band emission at antenna terminals –EDGE CH High



Page 59 of 135



EDGE 850

Figure 12-1: Band Edge emissions – EDGE CH Low

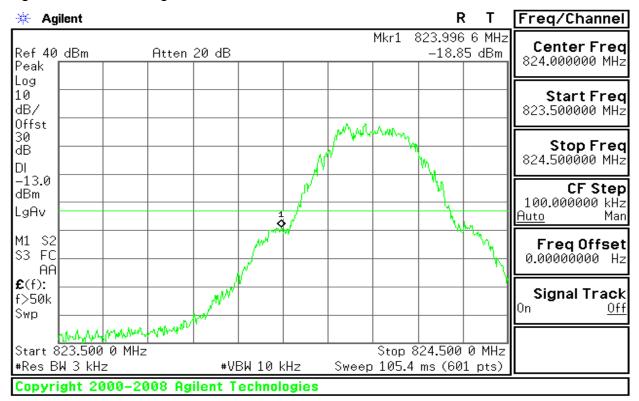
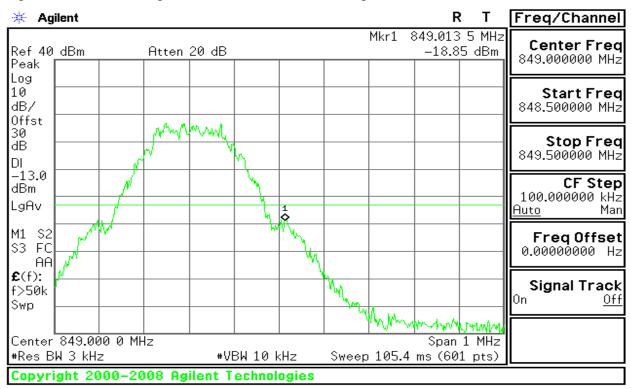


Figure 12-2: Band Edge emissions - EDGE CH High



Page 60 of 135



EDGE 1900

Figure 12-3: Band Edge emissions - EDGE CH Low

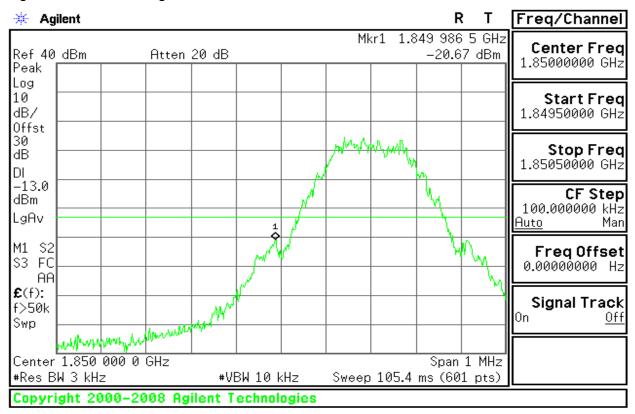
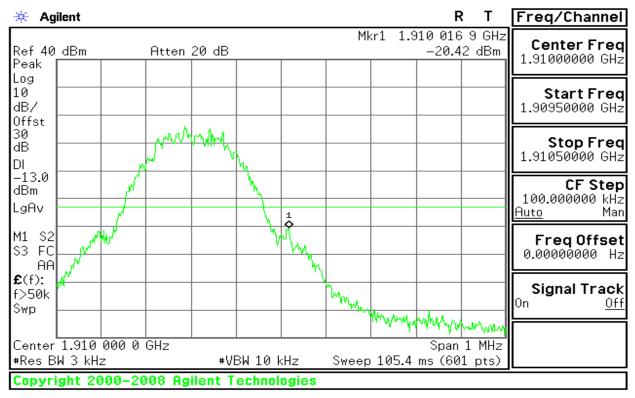


Figure 12-4: Band Edge emissions – EDGE CH High



Page 61 of 135





WCDMA Band II

Figure 13-1: Out of Band emission at antenna terminals – WCDMA CH Low

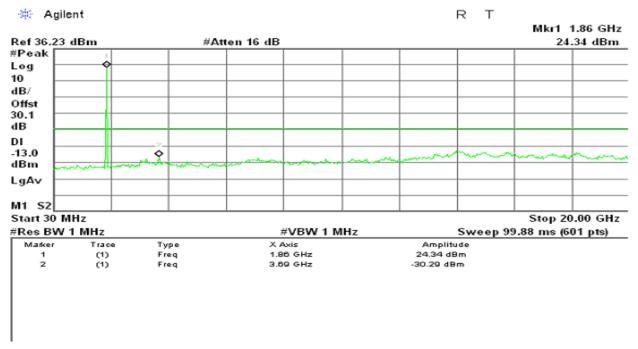
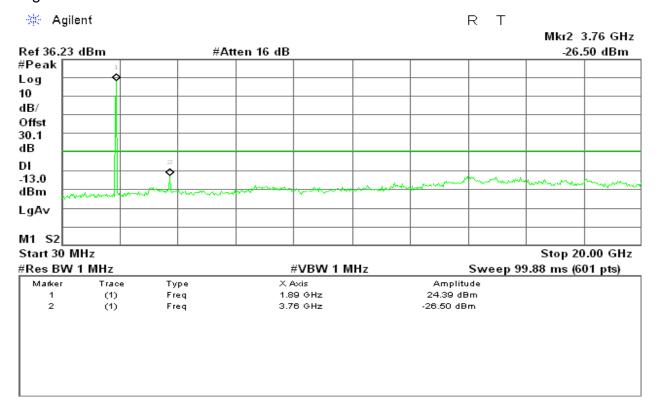


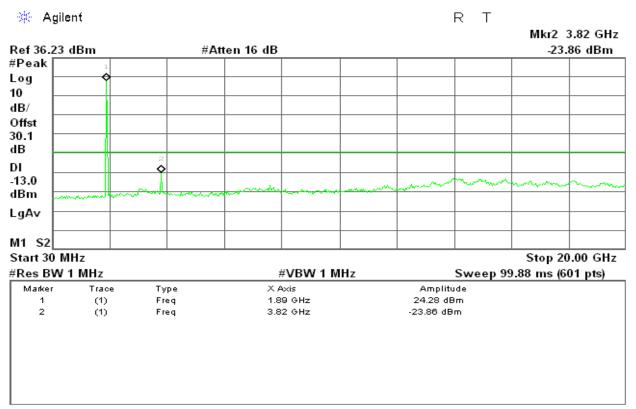
Figure 13-2: Out of Band emission at antenna terminals – WCDMA CH Mid





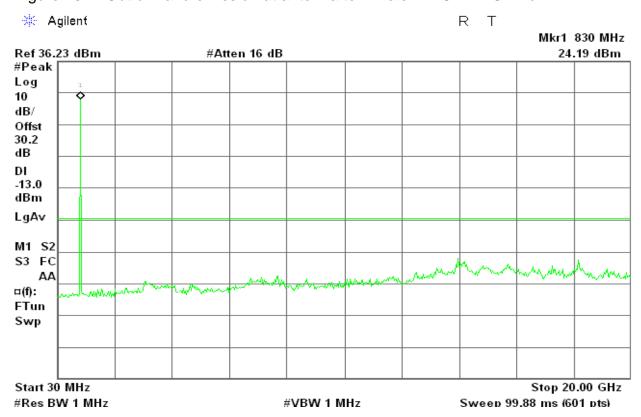
Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Figure 13-3: Out of Band emission at antenna terminals – WCDMA CH High



WCDMA Band V

Figure 13-4: Out of Band emission at antenna terminals - WCDMA CH Low



Page 63 of 135 Rev. 00





Figure 13-5: Out of Band emission at antenna terminals – WCDMA CH Mid

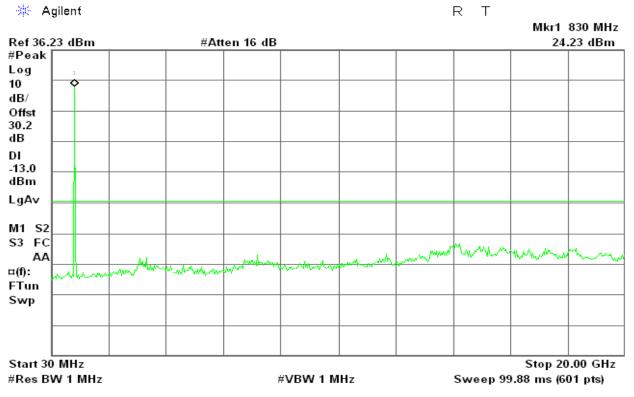
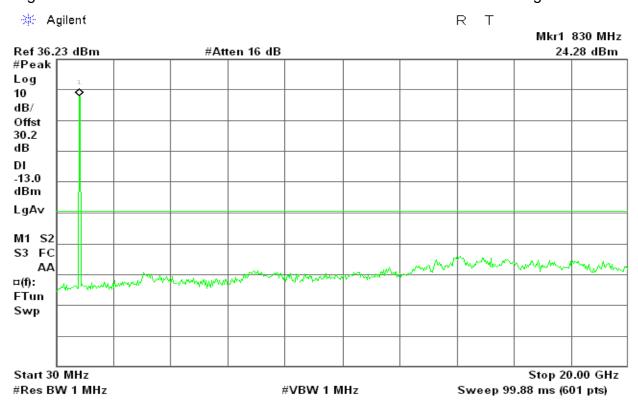


Figure 13-6: Out of Band emission at antenna terminals – WCDMA CH High







WCDMA Band II

Figure 14-1: Band Edge emissions - WCDMA CH Low

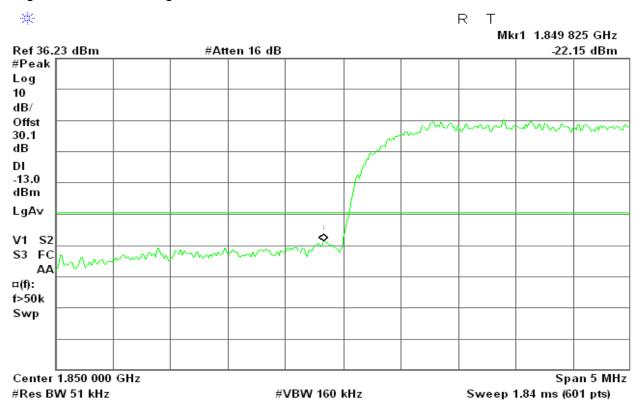
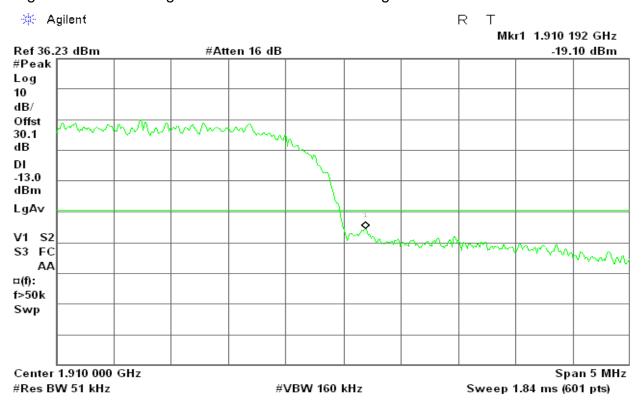


Figure 14-2: Band Edge emissions –WCDMA CH High







WCDMA Band V

Figure 14-3: Band Edge emissions -WCDMA CH Low

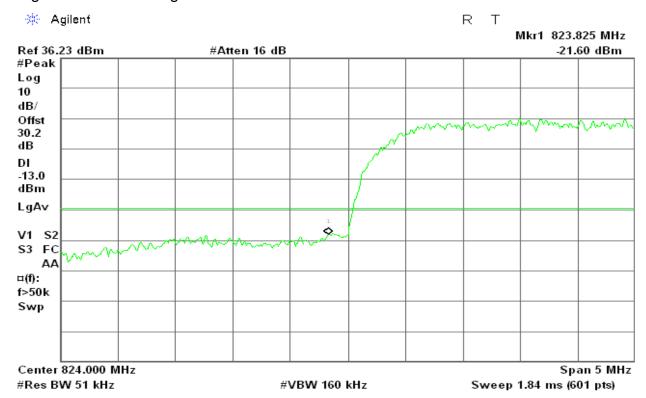
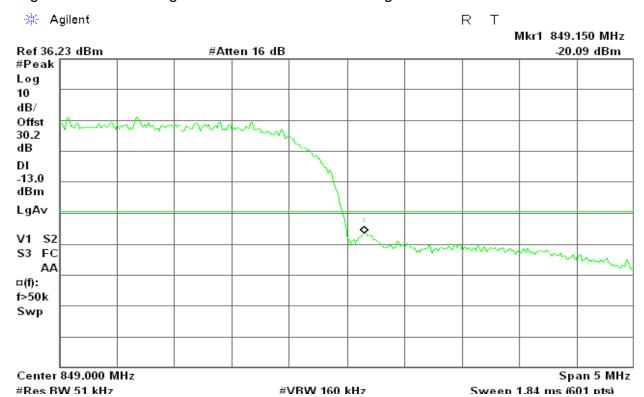


Figure 14-4: Band Edge emissions –WCDMA CH High







WCDMA / HSDPA Band II

Figure 15-1: Out of Band emission at antenna terminals - HSDPA CH Low

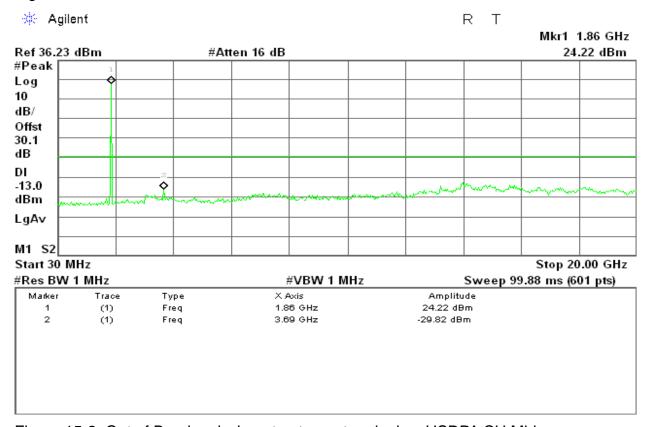
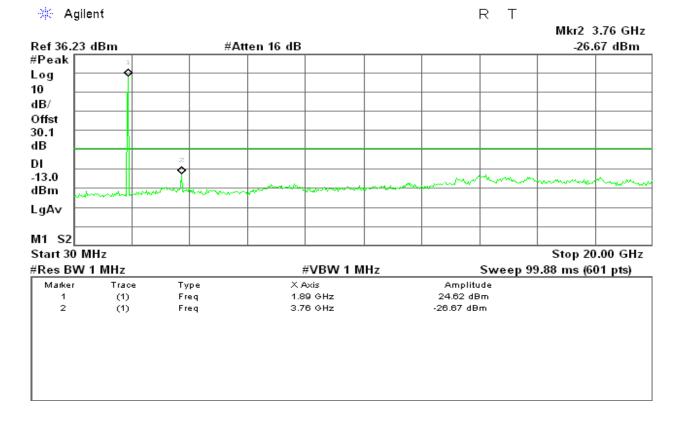


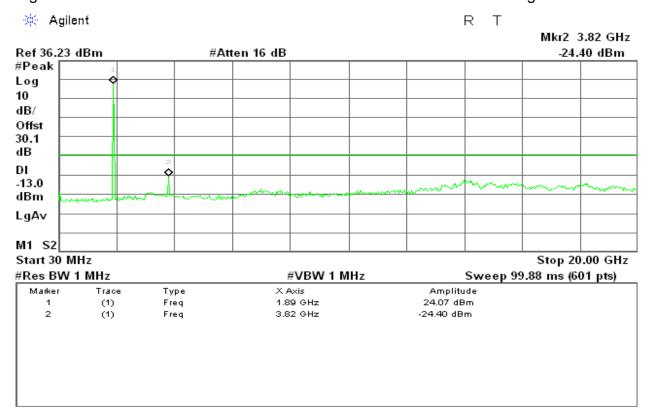
Figure 15-2: Out of Band emission at antenna terminals – HSDPA CH Mid





Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Figure 15-3: Out of Band emission at antenna terminals – HSDPA CH High



WCDMA / HSDPA Band V

Figure 15-4: Out of Band emission at antenna terminals – HSDPA CH Low

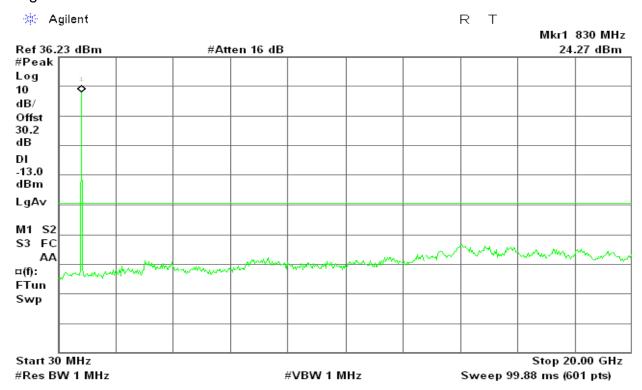






Figure 15-5: Out of Band emission at antenna terminals – HSDPA CH Mid

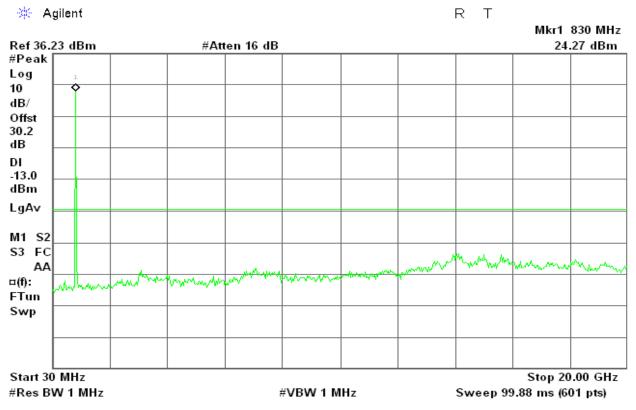
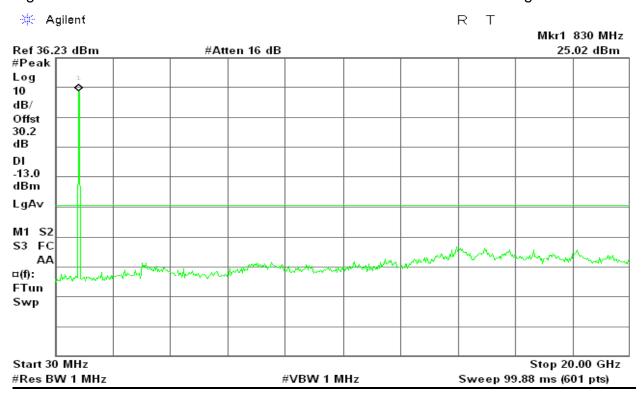


Figure 15-6: Out of Band emission at antenna terminals – HSDPA CH High







WCDMA / HSDPA Band II

Figure 16-1: Band Edge emissions - HSDPA CH Low

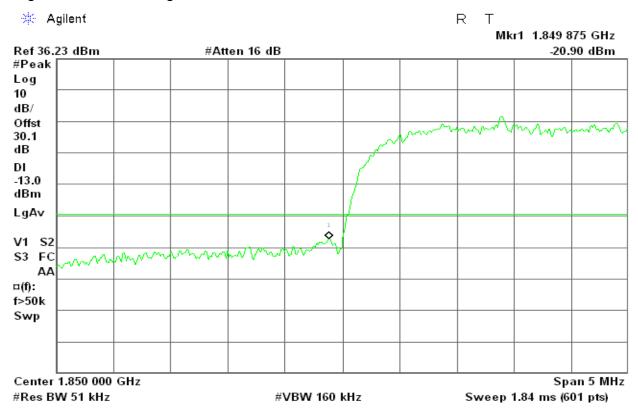
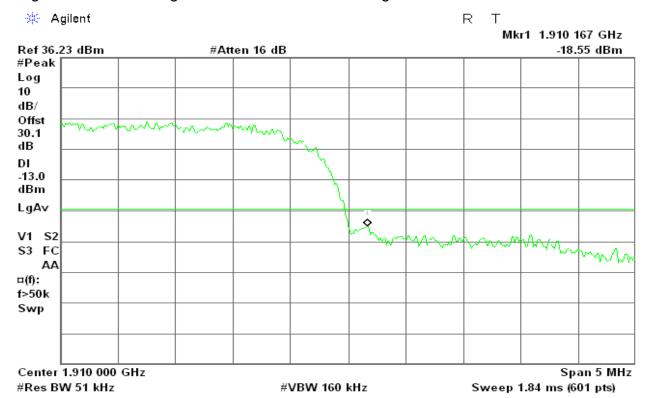


Figure 16-2: Band Edge emissions – HSDPA CH High







WCDMA / HSDPA Band V

Figure 16-3: Band Edge emissions - HSDPA CH Low

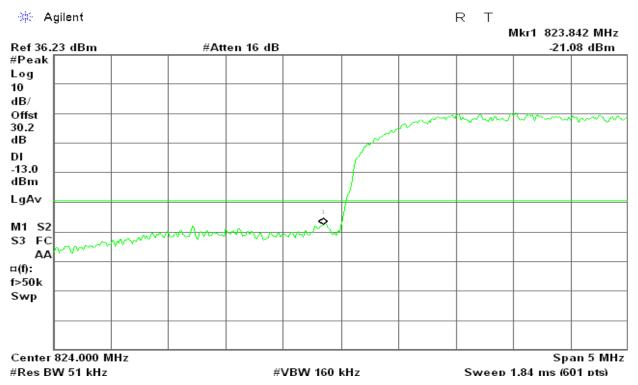
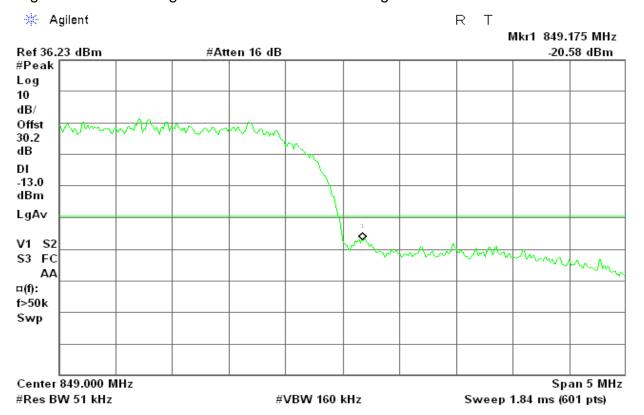


Figure 16-4: Band Edge emissions - HSDPA CH High





Report No.: KS110218A01-RP1

FCC ID:Y9W-W800 Date of Issue: February 22, 2011

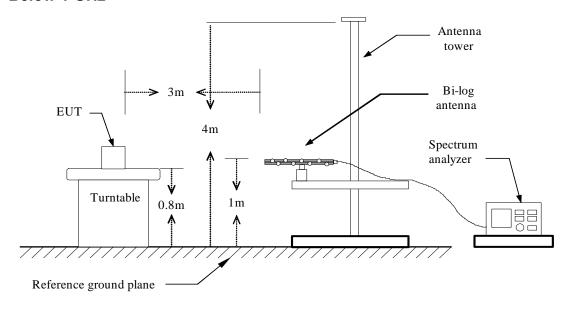
7.4 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

LIMIT

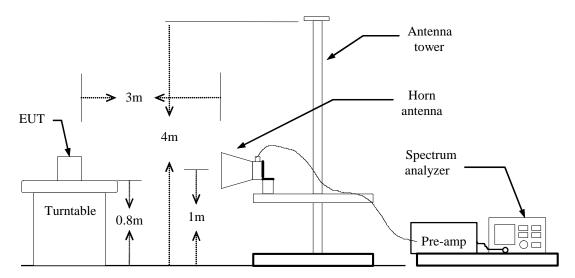
According to FCC §2.1053

Test Configuration

Below 1 GHz



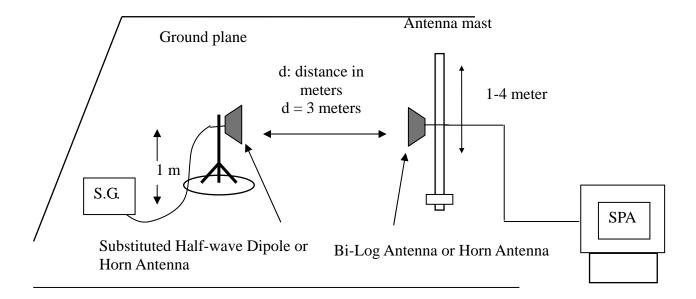
Above 1 GHz





Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Substituted Method Test Set-up



TEST PROCEDURE

The EUT was placed on a non-conductive, the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP = S.G. output (dBm) + Antenna Gain (dBd) - Cable (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)

TEST RESULTS

Refer to the attached tabular data sheets.

Rev. 00





Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Radiated Spurious Emission Measurement Result / Below 1GHz

Operation
Mode:

GPRS 850 / TX / CH 128

Test Date: February 22, 2011

Temperature: 23°C Tested by: Star

Humidity: 51 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
98.76	V	-46.52	-17.68	-64.20	-13.00	-51.20
241.88	V	-48.76	-14.02	-62.78	-13.00	-49.78
262.91	V	-47.33	-13.71	-61.04	-13.00	-48.04
400.33	V	-47.92	-11.22	-59.14	-13.00	-46.14
498.76	V	-53.04	-8.38	-61.42	-13.00	-48.42
698.65	V	-58.77	-6.25	-65.02	-13.00	-52.02
98.72	Н	-46.68	-17.49	-64.17	-13.00	-51.17
121.33	Н	-54.32	-13.57	-67.89	-13.00	-54.89
264.55	Н	-52.11	-14.06	-66.17	-13.00	-53.17
409.73	Н	-53.29	-10.59	-63.88	-13.00	-50.88
500.04	Н	-59.84	-8.27	-68.11	-13.00	-55.11
698.75	Н	-57.99	-6.18	-64.17	-13.00	-51.17

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation

Mode:

GPRS 850 / TX / CH 190

Test Date: February 22, 2011

Temperature: 23°C **Tested by:** Star

Humidity: 51 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
131.11	V	-45.35	-12.34	-57.69	-13.00	-44.69
264.35	V	-48.46	-13.71	-62.17	-13.00	-49.17
401.36	V	-45.35	-11.17	-56.52	-13.00	-43.52
697.65	V	-57.45	-6.25	-63.70	-13.00	-50.70
798.45	V	-58.44	-4.98	-63.42	-13.00	-50.42
966.43	V	-61.54	-3.03	-64.57	-13.00	-51.57
129.55	Н	-45.47	-13.66	-59.13	-13.00	-46.13
264.46	Н	-53.65	-14.06	-67.71	-13.00	-54.71
399.41	Н	-53.57	-10.96	-64.53	-13.00	-51.53
451.37	Н	-54.57	-9.64	-64.21	-13.00	-51.21
697.62	Н	-57.54	-6.18	-63.72	-13.00	-50.72
963.43	Н	-59.65	-3.10	-62.75	-13.00	-49.75

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation

Mode:

GPRS 850 / TX / CH 251

Test Date: February 22, 2011

Temperature: 23°C Tested by: Star

Humidity: 51 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
164.36	V	-51.12	-13.84	-64.96	-13.00	-51.96
262.58	V	-47.34	-13.71	-61.05	-13.00	-48.05
399.54	V	-47.44	-11.17	-58.61	-13.00	-45.61
498.46	V	-54.65	-8.40	-63.05	-13.00	-50.05
695.59	V	-58.49	-6.25	-64.74	-13.00	-51.74
799.47	V	-60.73	-4.98	-65.71	-13.00	-52.71
119.43	Н	-55.54	-13.90	-69.44	-13.00	-56.44
161.57	Н	-48.55	-14.15	-62.70	-13.00	-49.70
263.46	Н	-52.53	-14.06	-66.59	-13.00	-53.59
400.32	Н	-51.32	-10.96	-62.28	-13.00	-49.28
498.32	Н	-59.11	-8.28	-67.39	-13.00	-54.39
695.43	Н	-57.32	-6.18	-63.50	-13.00	-50.50

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation
Mode: GPRS 1900 / TX / CH 512 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
134.55	V	-43.45	-12.75	-56.20	-13.00	-43.20
227.46	V	-40.65	-14.56	-55.21	-13.00	-42.21
400.55	V	-41.24	-11.22	-52.46	-13.00	-39.46
500.46	V	-49.45	-8.38	-57.83	-13.00	-44.83
697.53	V	-54.54	-6.25	-60.79	-13.00	-47.79
801.44	V	-52.32	-4.97	-57.29	-13.00	-44.29
102.64	Н	-35.34	-16.71	-52.05	-13.00	-39.05
194.56	Н	-42.35	-13.34	-55.69	-13.00	-42.69
400.43	Н	-46.64	-10.96	-57.60	-13.00	-44.60
460.42	Н	-51.42	-9.30	-60.72	-13.00	-47.72
724.35	Н	-54.32	-6.03	-60.35	-13.00	-47.35
801.53	Н	-55.36	-4.87	-60.23	-13.00	-47.23

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation GPRS 1900 / TX / CH 661 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
43.43	V	-47.44	-12.36	-59.80	-13.00	-46.80
135.43	V	-43.64	-12.84	-56.48	-13.00	-43.48
229.43	V	-39.46	-14.56	-54.02	-13.00	-41.02
400.63	V	-41.75	-11.22	-52.97	-13.00	-39.97
500.53	V	-49.65	-8.38	-58.03	-13.00	-45.03
799.53	V	-51.65	-4.97	-56.62	-13.00	-43.62
117.53	Н	-37.75	-13.90	-51.65	-13.00	-38.65
191.53	Н	-42.43	-13.48	-55.91	-13.00	-42.91
400.53	Н	-46.46	-10.87	-57.33	-13.00	-44.33
501.63	Н	-53.74	-8.27	-62.01	-13.00	-49.01
721.64	Н	-54.63	-6.14	-60.77	-13.00	-47.77
800.76	Н	-55.80	-4.88	-60.68	-13.00	-47.68

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation GPRS 1900 / TX / CH 810 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
135.43	V	-41.33	-12.84	-54.17	-13.00	-41.17
205.53	V	-41.02	-14.98	-56.00	-13.00	-43.00
401.64	V	-41.97	-11.17	-53.14	-13.00	-40.14
500.74	V	-49.82	-8.38	-58.20	-13.00	-45.20
695.64	V	-55.46	-6.25	-61.71	-13.00	-48.71
801.74	V	52.34	-4.92	47.42	-13.00	60.42
116.74	Н	-38.79	-14.09	-52.88	-13.00	-39.88
194.74	Н	-42.43	-13.34	-55.77	-13.00	-42.77
400.74	Н	-46.43	-10.96	-57.39	-13.00	-44.39
500.72	Н	-53.53	-8.27	-61.80	-13.00	-48.80
698.46	Н	-52.35	-6.18	-58.53	-13.00	-45.53
799.67	Н	-54.55	-4.89	-59.44	-13.00	-46.44

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation
Mode: EDGE 850 / TX / CH 128 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
100.24	V	-46.57	-17.68	-64.25	-13.00	-51.25
240.44	V	-49.78	-14.01	-63.79	-13.00	-50.79
264.22	V	-47.86	-13.71	-61.57	-13.00	-48.57
399.56	V	-46.56	-11.17	-57.73	-13.00	-44.73
499.75	V	-54.86	-8.38	-63.24	-13.00	-50.24
695.54	V	-58.76	-6.25	-65.01	-13.00	-52.01
100.56	Н	-45.95	-17.49	-63.44	-13.00	-50.44
264.75	Н	-52.25	-14.06	-66.31	-13.00	-53.31
400.22	Н	-52.23	-10.96	-63.19	-13.00	-50.19
511.32	Н	-58.45	-8.20	-66.65	-13.00	-53.65
695.54	Н	-57.64	-6.18	-63.82	-13.00	-50.82
742.45	Н	-62.98	-5.57	-68.55	-13.00	-55.55

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation
Mode: EDGE 850 / TX / CH 190 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

262.35	V	-48.53	-13.71	-62.24	-13.00	-49.24
401.29	V	-46.35	-11.22	-57.57	-13.00	-44.57
498.46	V	-54.35	-8.40	-62.75	-13.00	-49.75
698.46	V	-58.64	-6.25	-64.89	-13.00	-51.89
966.54	V	-60.53	-3.05	-63.58	-13.00	-50.58
101.70		1- 10	10.11	70.00	12.00	4 5 0 0
131.53	Н	-45.43	-13.66	-59.09	-13.00	-46.09
264.43	Н	-52.64	-14.06	-66.70	-13.00	-53.70
400.34	Н	-51.54	-10.96	-62.50	-13.00	-49.50
451.43	Н	-55.54	-9.64	-65.18	-13.00	-52.18
695.43	Н	-57.53	-6.18	-63.71	-13.00	-50.71
966.53	Н	-61.53	-3.10	-64.63	-13.00	-51.63

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation
Mode: EDGE 850 / TX / CH 251 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
262.52	V	-48.37	-13.71	-62.08	-13.00	-49.08
400.36	V	-48.91	-11.22	-60.13	-13.00	-47.13
497.62	V	-54.34	-8.40	-62.74	-13.00	-49.74
533.36	V	-57.46	-8.01	-65.47	-13.00	-52.47
695.64	V	-58.88	-6.25	-65.13	-13.00	-52.13
797.73	V	-60.34	-4.98	-65.32	-13.00	-52.32
115.56	Н	-55.43	-14.27	-69.70	-13.00	-56.70
161.43	Н	-48.21	-14.15	-62.36	-13.00	-49.36
262.63	Н	-51.62	-14.06	-65.68	-13.00	-52.68
400.33	Н	-51.37	-10.91	-62.28	-13.00	-49.28
497.34	Н	-59.86	-8.28	-68.14	-13.00	-55.14
695.34	Н	-58.70	-6.18	-64.88	-13.00	-51.88

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation
Mode: EDGE 1900 / TX / CH 512 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
86.76	V	-36.65	-19.92	-56.57	-13.00	-43.57
133.25	V	-43.65	-12.67	-56.32	-13.00	-43.32
215.43	V	-39.65	-15.47	-55.12	-13.00	-42.12
400.58	V	-42.57	-11.22	-53.79	-13.00	-40.79
500.82	V	-49.75	-8.38	-58.13	-13.00	-45.13
800.13	V	-50.43	-4.97	-55.40	-13.00	-42.40
32.64	Н	-37.34	-15.23	-52.57	-13.00	-39.57
115.54	Н	-38.34	-14.27	-52.61	-13.00	-39.61
400.64	Н	-47.96	-10.96	-58.92	-13.00	-45.92
500.64	Н	-53.26	-8.27	-61.53	-13.00	-48.53
697.73	Н	-54.87	-6.18	-61.05	-13.00	-48.05
800.53	Н	-53.67	-4.90	-58.57	-13.00	-45.57

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation
Mode: EDGE 1900 / TX / CH 661 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
140.26	V	-41.52	-13.09	-54.61	-13.00	-41.61
241.44	V	-41.53	-14.02	-55.55	-13.00	-42.55
400.86	V	-42.63	-11.22	-53.85	-13.00	-40.85
499.84	V	-49.64	-8.38	-58.02	-13.00	-45.02
695.36	V	-55.31	-6.25	-61.56	-13.00	-48.56
797.33	V	-51.84	-4.98	-56.82	-13.00	-43.82
117.62	Н	-36.67	-13.90	-50.57	-13.00	-37.57
191.43	Н	-42.56	-13.48	-56.04	-13.00	-43.04
400.33	Н	-46.57	-10.87	-57.44	-13.00	-44.44
499.63	Н	-53.89	-8.27	-62.16	-13.00	-49.16
695.82	Н	-54.61	-6.18	-60.79	-13.00	-47.79
799.43	Н	-54.34	-4.90	-59.24	-13.00	-46.24

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation
Mode: EDGE 1900 / TX / CH 810 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
137.47	V	-43.25	-13.00	-56.25	-13.00	-43.25
231.65	V	-41.27	-14.43	-55.70	-13.00	-42.70
400.76	V	-42.65	-11.17	-53.82	-13.00	-40.82
452.78	V	-48.97	-9.76	-58.73	-13.00	-45.73
500.87	V	-50.31	-8.38	-58.69	-13.00	-45.69
797.82	V	-50.42	-4.98	-55.40	-13.00	-42.40
117.35	Н	-39.88	-13.90	-53.78	-13.00	-40.78
193.55	Н	-44.67	-13.20	-57.87	-13.00	-44.87
287.65	Н	-42.57	-12.87	-55.44	-13.00	-42.44
400.52	Н	-47.61	-10.96	-58.57	-13.00	-45.57
697.83	Н	-52.37	-6.18	-58.55	-13.00	-45.55
800.17	Н	-55.82	-4.88	-60.70	-13.00	-47.70

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA Band II / TX / CH 9262 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
138.67	V	-42.88	-13.09	-55.97	-13.00	-42.97
192.62	V	-42.15	-14.06	-56.21	-13.00	-43.21
241.06	V	-43.29	-14.02	-57.31	-13.00	-44.31
399.64	V	-40.85	-11.22	-52.07	-13.00	-39.07
500.72	V	-49.67	-8.38	-58.05	-13.00	-45.05
800.94	V	-51.07	-4.97	-56.04	-13.00	-43.04
118.53	Н	-41.67	-13.72	-55.39	-13.00	-42.39
191.37	Н	-42.31	-13.48	-55.79	-13.00	-42.79
299.67	Н	-48.01	-13.86	-61.87	-13.00	-48.87
400.37	Н	-46.89	-10.96	-57.85	-13.00	-44.85
721.05	Н	-54.90	-6.14	-61.04	-13.00	-48.04
799.68	Н	-54.33	-4.90	-59.23	-13.00	-46.23

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA Band II / TX / CH 9400 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
138.67	V	-42.56	-13.09	-55.65	-13.00	-42.65
240.19	V	-42.31	-14.01	-56.32	-13.00	-43.32
399.75	V	-41.85	-11.17	-53.02	-13.00	-40.02
500.42	V	-49.89	-8.38	-58.27	-13.00	-45.27
718.64	V	-54.67	-5.85	-60.52	-13.00	-47.52
798.89	V	-51.37	-4.97	-56.34	-13.00	-43.34
115.37	Н	-40.89	-14.27	-55.16	-13.00	-42.16
192.67	Н	-41.67	-13.34	-55.01	-13.00	-42.01
399.64	Н	-46.52	-10.91	-57.43	-13.00	-44.43
671.55	Н	-54.76	-6.27	-61.03	-13.00	-48.03
720.45	Н	-55.48	-6.16	-61.64	-13.00	-48.64
798.89	Н	-55.17	-4.90	-60.07	-13.00	-47.07

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA Band II / TX / CH 9538 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
136.56	V	-12.52	-12.92	-25.44	-13.00	-12.44
192.86	V	-41.67	-14.06	-55.73	-13.00	-42.73
215.42	V	-41.33	-15.47	-56.80	-13.00	-43.80
400.78	V	-42.61	-11.22	-53.83	-13.00	-40.83
500.49	V	-49.72	-8.38	-58.10	-13.00	-45.10
800.13	V	-51.78	-4.97	-56.75	-13.00	-43.75
113.26	Н	-40.33	-14.65	-54.98	-13.00	-41.98
192.46	Н	-42.78	-13.34	-56.12	-13.00	-43.12
281.40	Н	-47.91	-13.21	-61.12	-13.00	-48.12
400.17	Н	-46.79	-10.96	-57.75	-13.00	-44.75
718.45	Н	-54.31	-6.16	-60.47	-13.00	-47.47
799.06	Н	-53.29	-4.89	-58.18	-13.00	-45.18

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA Band V / TX / CH 4132 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
137.49	V	-56.89	-13.00	-69.89	-13.00	-56.89
240.15	V	-47.63	-14.01	-61.64	-13.00	-48.64
264.28	V	-50.42	-13.71	-64.13	-13.00	-51.13
400.72	V	-47.92	-11.22	-59.14	-13.00	-46.14
497.86	V	-56.40	-8.40	-64.80	-13.00	-51.80
671.43	V	-61.85	-6.49	-68.34	-13.00	-55.34
197.68	Н	-56.27	-12.66	-68.93	-13.00	-55.93
240.18	Н	-51.73	-14.21	-65.94	-13.00	-52.94
275.64	Н	-54.60	-12.98	-67.58	-13.00	-54.58
400.19	Н	-52.34	-10.96	-63.30	-13.00	-50.30
271.48	Н	-59.78	-6.27	-66.05	-13.00	-53.05
720.18	Н	-59.73	-6.16	-65.89	-13.00	-52.89

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA Band V / TX / CH 4182 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
166.34	V	-54.67	-13.97	-68.64	-13.00	-55.64
241.35	V	-47.52	-14.01	-61.53	-13.00	-48.53
399.78	V	-48.67	-11.17	-59.84	-13.00	-46.84
497.65	V	-55.34	-8.40	-63.74	-13.00	-50.74
671.48	V	-59.82	-6.49	-66.31	-13.00	-53.31
720.33	V	-60.11	-5.85	-65.96	-13.00	-52.96
240.11	Н	-52.84	-14.21	-67.05	-13.00	-54.05
262.59	Н	53.67	-14.06	39.61	-13.00	52.61
400.38	Н	-51.27	-10.96	-62.23	-13.00	-49.23
500.19	Н	-59.80	-8.27	-68.07	-13.00	-55.07
671.48	Н	-59.76	-6.27	-66.03	-13.00	-53.03
720.33	Н	-58.73	-6.16	-64.89	-13.00	-51.89

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA Band V / TX / CH 4233 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
166.56	V	-53.29	-13.97	-67.26	-13.00	-54.26
240.18	V	-46.75	-14.01	-60.76	-13.00	-47.76
400.59	V	-48.72	-11.22	-59.94	-13.00	-46.94
497.85	V	-56.17	-8.40	-64.57	-13.00	-51.57
671.45	V	-59.72	-6.49	-66.21	-13.00	-53.21
720.16	V	-60.49	-5.85	-66.34	-13.00	-53.34
240.16	Н	-52.37	-14.21	-66.58	-13.00	-53.58
262.58	Н	-53.67	-14.06	-67.73	-13.00	-54.73
400.19	Н	-51.88	-10.96	-62.84	-13.00	-49.84
500.72	Н	-60.21	-8.27	-68.48	-13.00	-55.48
671.48	Н	-60.23	-6.27	-66.50	-13.00	-53.50
720.18	Н	-58.74	-6.16	-64.90	-13.00	-51.90

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Date: February 22, 2011

Operation WCDMA / HSDPA Band II /

Mode: TX / CH 9262

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
137.85	V	-42.86	-13.00	-55.86	-13.00	-42.86
215.04	V	-39.87	-15.47	-55.34	-13.00	-42.34
262.57	V	-44.27	-13.71	-57.98	-13.00	-44.98
399.76	V	-41.89	-11.17	-53.06	-13.00	-40.06
500.47	V	-49.57	-8.38	-57.95	-13.00	-44.95
796.59	V	-50.37	-4.98	-55.35	-13.00	-42.35
114.53	Н	-40.82	-14.46	-55.28	-13.00	-42.28
192.67	Н	-43.29	-13.34	-56.63	-13.00	-43.63
400.67	Н	-46.95	-10.96	-57.91	-13.00	-44.91
500.49	Н	-53.17	-8.27	-61.44	-13.00	-48.44
721.46	Н	-54.82	-6.14	-60.96	-13.00	-47.96
800.34	Н	-54.02	-4.88	-58.90	-13.00	-45.90

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA / HSDPA Band II /

Mode: TX / CH 9400 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
137.88	V	-42.58	-13.00	-55.58	-13.00	-42.58
215.40	V	-40.67	-15.47	-56.14	-13.00	-43.14
239.67	V	-42.33	-14.02	-56.35	-13.00	-43.35
399.82	V	-42.59	-11.17	-53.76	-13.00	-40.76
498.70	V	-49.70	-8.38	-58.08	-13.00	-45.08
798.89	V	-51.77	-4.97	-56.74	-13.00	-43.74
114.37	Н	-41.27	-14.46	-55.73	-13.00	-42.73
192.67	Н	-41.33	-13.34	-54.67	-13.00	-41.67
275.48	Н	-46.58	-12.98	-59.56	-13.00	-46.56
400.35	Н	-47.90	-10.91	-58.81	-13.00	-45.81
721.49	Н	-52.74	-6.14	-58.88	-13.00	-45.88
800.67	Н	-54.61	-4.90	-59.51	-13.00	-46.51

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Date: February 22, 2011

Operation WCDMA / HSDPA Band II /

Mode: TX / CH 9538

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
136.59	V	-42.50	-12.92	-55.42	-13.00	-42.42
195.70	V	-42.17	-13.78	-55.95	-13.00	-42.95
238.96	V	-42.16	-14.01	-56.17	-13.00	-43.17
400.31	V	-43.28	-11.22	-54.50	-13.00	-41.50
499.88	V	-49.75	-8.38	-58.13	-13.00	-45.13
800.45	V	-50.89	-4.97	-55.86	-13.00	-42.86
115.64	Н	-41.60	-14.27	-55.87	-13.00	-42.87
191.26	Н	-42.52	-13.34	-55.86	-13.00	-42.86
400.34	Н	-48.37	-10.91	-59.28	-13.00	-46.28
500.67	Н	-52.14	-8.27	-60.41	-13.00	-47.41
720.13	Н	-54.91	-6.16	-61.07	-13.00	-48.07
799.66	Н	-54.73	-4.90	-59.63	-13.00	-46.63

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Date: February 22, 2011

Operation WCDMA / HSDPA Band V /

Mode: TX / CH 4132

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
174.34	V	-52.69	-14.20	-66.89	-13.00	-53.89
238.69	V	-48.25	-14.01	-62.26	-13.00	-49.26
262.54	V	-50.77	-13.71	-64.48	-13.00	-51.48
400.31	V	-48.37	-11.17	-59.54	-13.00	-46.54
497.58	V	-56.80	-8.40	-65.20	-13.00	-52.20
720.18	V	-61.27	-5.85	-67.12	-13.00	-54.12
238.89	Н	-52.99	-14.21	-67.20	-13.00	-54.20
275.44	Н	-54.70	-12.98	-67.68	-13.00	-54.68
400.35	Н	-52.37	-10.96	-63.33	-13.00	-50.33
499.68	Н	-60.78	-8.28	-69.06	-13.00	-56.06
671.25	Н	-60.88	-6.27	-67.15	-13.00	-54.15
720.15	Н	-58.91	-6.16	-65.07	-13.00	-52.07

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Date: February 22, 2011

Operation WCDMA / HSDPA Band V /

Mode: TX / CH 4182

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
240.16	V	-46.85	-14.01	-60.86	-13.00	-47.86
263.58	V	-49.67	-13.71	-63.38	-13.00	-50.38
400.38	V	-46.25	-11.17	-57.42	-13.00	-44.42
497.86	V	-56.34	-8.40	-64.74	-13.00	-51.74
671.29	V	-60.27	-6.49	-66.76	-13.00	-53.76
720.33	V	-60.94	-5.85	-66.79	-13.00	-53.79
205.67	Н	-52.30	-13.41	-65.71	-13.00	-52.71
240.59	Н	-52.89	-14.21	-67.10	-13.00	-54.10
262.54	Н	-52.64	-14.06	-66.70	-13.00	-53.70
400.37	Н	-51.73	-10.96	-62.69	-13.00	-49.69
671.02	Н	-59.67	-6.27	-65.94	-13.00	-52.94
720.51	Н	-58.06	-6.16	-64.22	-13.00	-51.22

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Date: February 22, 2011

Operation WCDMA / HSDPA Band V /

Mode: TX / CH 4233

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
239.64	V	-46.58	-14.02	-60.60	-13.00	-47.60
264.52	V	-49.67	-13.71	-63.38	-13.00	-50.38
399.60	V	-48.58	-11.17	-59.75	-13.00	-46.75
499.07	V	-56.42	-8.38	-64.80	-13.00	-51.80
671.29	V	-60.33	-6.49	-66.82	-13.00	-53.82
797.64	V	-61.24	-4.98	-66.22	-13.00	-53.22
121.43	Н	-58.27	-13.57	-71.84	-13.00	-58.84
236.59	Н	-52.61	-14.21	-66.82	-13.00	-53.82
262.47	Н	-53.34	-14.06	-67.40	-13.00	-54.40
400.57	Н	-51.94	-10.96	-62.90	-13.00	-49.90
671.25	Н	-59.76	-6.27	-66.03	-13.00	-53.03
720.33	Н	-59.95	-6.16	-66.11	-13.00	-53.11

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Date: February 22, 2011

Operation WCDMA / HSUPA Band II /

Mode: TX / CH 9262

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
241.65	V	-45.67	-14.01	-59.68	-13.00	-46.68
262.53	V	-47.95	-13.71	-61.66	-13.00	-48.66
400.58	V	-46.53	-11.22	-57.75	-13.00	-44.75
500.26	V	-59.06	-8.38	-67.44	-13.00	-54.44
599.76	V	-60.17	-7.47	-67.64	-13.00	-54.64
695.28	V	-58.46	-6.25	-64.71	-13.00	-51.71
135.64	Н	-54.27	-13.89	-68.16	-13.00	-55.16
240.57	Н	-51.66	-14.21	-65.87	-13.00	-52.87
275.48	Н	-53.92	-12.98	-66.90	-13.00	-53.90
399.76	Н	-48.31	-10.91	-59.22	-13.00	-46.22
671.43	Н	-58.76	-6.27	-65.03	-13.00	-52.03
720.50	Н	-57.99	-6.16	-64.15	-13.00	-51.15

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA / HSUPA Band II /

Mode: TX / CH 9400 Test Date: February 22, 2011

Temperature: 21°C **Tested by**: Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
133.26	V	-55.94	-12.50	-68.44	-13.00	-55.44
166.52	V	-53.67	-13.97	-67.64	-13.00	-54.64
240.50	V	-45.82	-14.01	-59.83	-13.00	-46.83
277.49	V	-50.94	-12.25	-63.19	-13.00	-50.19
400.61	V	-44.78	-11.22	-56.00	-13.00	-43.00
499.61	V	-57.94	-8.40	-66.34	-13.00	-53.34
215.64	Н	-56.27	-14.02	-70.29	-13.00	-57.29
240.33	Н	-52.64	-14.21	-66.85	-13.00	-53.85
263.35	Н	-54.11	-14.06	-68.17	-13.00	-55.17
400.52	Н	-48.90	-10.91	-59.81	-13.00	-46.81
673.26	Н	-58.67	-6.27	-64.94	-13.00	-51.94
722.19	Н	-58.31	-6.16	-64.47	-13.00	-51.47

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Above 1GHz

Operation GPRS 850 / TX / CH 128 Test Date: February 22,2011

Temperature: 21°C **Tested by**: Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1651.32	V	-57.46	0.69	-56.77	-13	-43.77
3294.54	V	-60.48	5.57	-54.91	-13	-41.91
2472.65	H	-60.34	3.78	-56.56	-13	-43.56
6515.55	Н	-60.54	12.14	-48.4	-13	-35.4

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation GPRS 850 / TX / CH 190 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
1675.43	V	-51.55	0.73	-50.82	-13.00	-37.82
6951.33	V	-61.36	13.76	-47.60	-13.00	-34.60
1670.26	Н	-55.54	0.84	-54.70	-13.00	-41.70
6675.37	Н	-61.51	12.80	-48.71	-13.00	-35.71
						·

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation GPRS 850 / TX / CH 251 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
1398.23	V	-58.88	0.05	-58.83	-13.00	-45.83
5688.43	V	-60.99	9.95	-51.04	-13.00	-38.04
				-		
1701.46	Н	-52.57	0.90	-51.67	-13.00	-38.67
5241.51	Н	-60.81	10.22	-50.59	-13.00	-37.59

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation GPRS 1900 / TX / CH 512 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
5395.33	V	-60.35	9.86	-50.49	-13.00	-37.49
7133.76	V	-62.33	14.34	-47.99	-13.00	-34.99
5437.37	Н	-61.54	10.24	-51.30	-13.00	-38.30
7621.31	Н	-62.21	16.14	-46.07	-13.00	-33.07
				-		

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation GPRS 1900 / TX / CH 661 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
5640.37	V	-58.77	9.94	-48.83	-13.00	-35.83
7348.54	V	-62.34	14.97	-47.37	-13.00	-34.37
5640.57	Н	-59.74	10.28	-49.46	-13.00	-36.46
6807.48	Н	-61.33	13.34	-47.99	-13.00	-34.99

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation GPRS 1900 / TX / CH 810 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
4761.32	V	-61.33	8.99	-52.34	-13.00	-39.34
7075.23	V	-61.22	14.17	-47.05	-13.00	-34.05
5192.43	Н	-60.44	10.22	-50.22	-13.00	-37.22
7033.28	Н	-61.21	14.23	-46.98	-13.00	-33.98
						·

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation
Mode: EDGE 850 / TX / CH 128 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
2499.33	V	-59.54	3.61	-55.93	-13.00	-42.93
7796.56	V	-61.36	16.19	-45.17	-13.00	-32.17
2498.52	Н	-61.35	3.91	-57.44	-13.00	-44.44
7399.54	Н	-61.47	15.48	-45.99	-13.00	-32.99

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation
Mode: EDGE 850 / TX / CH 190 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
1671.24	V	-55.47	0.73	-54.74	-13.00	-41.74
2514.43	V	-56.46	3.66	-52.80	-13.00	-39.80
4954.43	Н	-60.54	10.14	-50.40	-13.00	-37.40
7377.64	Н	-61.56	15.41	-46.15	-13.00	-33.15
						·
				_		

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation
Mode: EDGE 850 / TX / CH 251 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
1699.21	V	-54.46	0.79	-53.67	-13.00	-40.67
2546.43	V	-55.38	3.77	-51.61	-13.00	-38.61
N/A						
1700.46	Н	-56.34	0.90	-55.44	-13.00	-42.44
4597.33	Н	-61.55	9.69	-51.86	-13.00	-38.86
N/A						
					_	

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation
Mode: EDGE 1900 / TX / CH 512 Test Date: February 22,2011

Temperature: 21°C Tested by: Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
5010.35	V	-61.78	9.69	-52.09	-13.00	-39.09
7782.46	V	-61.94	16.15	-45.79	-13.00	-32.79
N/A						
5437.47	Н	-60.33	10.24	-50.09	-13.00	-37.09
6641.43	Н	-61.20	12.66	-48.54	-13.00	-35.54
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation
Mode: EDGE 1900 / TX / CH 661 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
4744.36	V	-61.57	8.93	-52.64	-13.00	-39.64
6305.75	V	-60.54	11.26	-49.28	-13.00	-36.28
5640.67	Н	-60.64	10.28	-50.36	-13.00	-37.36
7215.43	Н	-61.81	14.85	-46.96	-13.00	-33.96
				_		
				_		

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation
Mode: EDGE 1900 / TX / CH 810 Test Date: February 22,2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	Antenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
6636.16	V	-61.56	12.56	-49.00	-13.00	-36.00
7376.39	V	-61.67	15.05	-46.62	-13.00	-33.62
6214.35	Н	-60.85	11.12	-49.73	-13.00	-36.73
7845.43	Н	-62.43	16.71	-45.72	-13.00	-32.72

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA Band II / TX / CH 9262 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
3701.56	V	-52.11	6.46	-45.65	-13.00	-32.65
N/A						
3708.49	Н	-49.85	7.88	-41.97	-13.00	-28.97
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA Band II / TX / CH 9400 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
3758.34	V	-40.25	6.63	-33.62	-13.00	-20.62
N/A						
3766.67	Н	-41.78	8.16	-33.62	-13.00	-20.62
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA Band II / TX / CH 9538 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
3822.26	V	-38.56	6.83	-31.73	-13.00	-18.73
N/A						
3814.33	Н	-41.77	8.40	-33.37	-13.00	-20.37
N/A						
						·

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA Band V / TX / CH 4132 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
4128.67	V	-59.84	7.59	-52.25	-13.00	-39.25
N/A						
-						
4961.83	Н	-55.43	10.15	-45.28	-13.00	-32.28
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA Band V / TX / CH 4182 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
3351.29	V	-57.48	5.64	-51.84	-13.00	-38.84
N/A						
5024.17	Н	-59.33	10.20	-49.13	-13.00	-36.13
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA Band V / TX / CH 4233 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
2489.76	V	-58.74	3.61	-55.13	-13.00	-42.13
N/A						
3841.67	Н	-60.31	8.54	-51.77	-13.00	-38.77
N/A						
						·

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Date: February 22, 2011

Operation WCDMA / HSDPA Band II /

Mode: TX / CH 9262

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
3701.88	V	-51.74	6.46	-45.28	-13.00	-32.28
N/A						
3702.13	Н	-49.32	7.85	-41.47	-13.00	-28.47
N/A						
						·
				_		·

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA / HSDPA Band II /

Mode: TX / CH 9400 Test Date: February 22, 2011

Temperature: 21°C **Tested by**: Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
3755.29	V	-42.51	6.66	-35.85	-13.00	-22.85
N/A						
3757.48	Н	-41.33	8.12	-33.21	-13.00	-20.21
N/A						
						·

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Operation WCDMA / HSDPA Band II /

Mode: TX / CH 9538 Test Date: February 22, 2011

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
3813.26	V	-38.24	6.81	-31.43	-13.00	-18.43
N/A						
3822.15	Н	-41.67	8.44	-33.23	-13.00	-20.23
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Date: February 22, 2011

Operation WCDMA / HSDPA Band V /

Mode: TX / CH 4132

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
4961.56	V	-56.84	9.57	-47.27	-13.00	-34.27
N/A						
4962.33	Н	-58.22	10.15	-48.07	-13.00	-35.07
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Date: February 22, 2011

Operation WCDMA / HSDPA Band V /

Mode: TX / CH 4182

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
3351.27	V	-58.73	5.64	-53.09	-13.00	-40.09
N/A						
5024.19	Н	-59.12	10.20	-48.92	-13.00	-35.92
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Test Date: February 22, 2011

Operation WCDMA / HSDPA Band V /

Mode: TX / CH 4233

Temperature: 21°C **Tested by:** Star

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency	A ntenna	Reading	Correction Factor	Emission level	Limit	Margin
(MHz)	Polarization	(dBm)	(dB)	(dBm)	(dBm)	(dB)
5921.30	V	-58.76	10.00	-48.76	-13.00	-35.76
N/A						
5920.87	Н	-57.99	10.37	-47.62	-13.00	-34.62
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



7.5 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

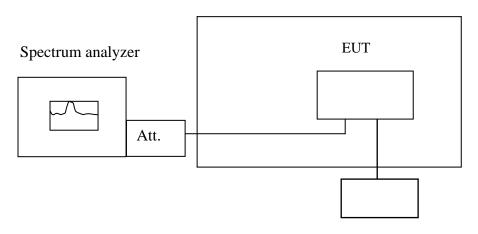
LIMIT

According to FCC §2.1055, FCC §22.355, .FCC §24.235.

Frequency Tolerance: 2.5 ppm

Test Configuration

Temperature Chamber



Variable Power Supply

Remark: Measurement setup for testing on Antenna connector



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

TEST PROCEDURE

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST RESULTS

No non-compliance noted.

Reference Frequency: GSM Mid Channel 836.6 MHz @ 20°C					
	Limit: ± 2.	5 ppm = 2091.5 H	Z		
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	45	836600027	27		
	40	836600031	31		
	30	836600023	23		
3.7	20	836599985	0	2091.5	
3.7	10	836600026	26	2091.5	
	0	836600027	27		
	-5	836600036	36		
	-10	836600038	38		

Reference Frequency: GSM Mid Channel 1880 MHz @ 20°C					
	Limit: ± 2	2.5 ppm = 4700 Hz			
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	45	1879999983	-17		
	40	1879999983	-17		
	30	1879999979	-21		
3.7	20	1880000015	0	4700	
3.7	10	1879999991	-9	4700	
	0	1879999977	-23		
	-5	1879999982	-18		
	-10	1879999986	-14		





Reference Frequency: GPRS Mid Channel 836.6 MHz @ 20°C					
	Limit: +/-	2.5 ppm = 2090 H	Z		
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	45	83660018	33		
	40	83660020	35		
	30	83660024	39		
3.7	20	83659985	0	2090	
3.7	10	83660014	29	2090	
	0	83660017	32		
	-5	83660010	25		
	-10	83660023	38		

Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C					
	Limit: ± 2	2.5 ppm = 4700 Hz	7		
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	45	1880000050	96		
	40	1880000047	93		
	30	1880000051	97		
3.7	20	1879999954	0	4700	
3.7	10	1880000045	91	4700	
	0	1880000052	98		
	-5	1880000047	93		
	-10	1880000051	97		





Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C					
	Limit: +/-	2.5 ppm = 2090 H	Z		
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	45	83660001	12		
	40	83660007	18		
	30	83659999	10		
3.7	20	83659989	0	2090	
3.7	10	83660002	13	2090	
	0	83660004	15		
	-5	83660006	17		
	-10	83660003	14		

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°C					
	Limit: ± 2	2.5 ppm = 4700 Hz	Z		
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	45	1880000030	64		
	40	1880000029	63		
	30	1880000032	66		
3.7	20	1879999966	0	4700	
3.7	10	1880000027	61	4700	
	0	1880000031	65		
	-5	1880000028	62		
	-10	1880000024	58		





Reference Frequency: WCDMA Band II Mid Channel 1880 MHz @ 20°C					
	Limit: ± 2	2.5 ppm = 4700 Hz	7		
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	45	188000001	23		
	40	1879999988	10		
	30	1879999999	21		
3.7	20	1879999978	0	4700	
3.7	10	1880000015	37	4700	
	0	1880000023	45		
	-5	1879999985	7		
	-10	1879999986	8		

Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 20°C					
	Limit: +/-	2.5 ppm = 2090 H	Z		
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	45	83639998	14		
	40	83640001	17		
	30	83640013	29		
3.7	20	83639984	0	2090	
3.7	10	83640000	16	2090	
	0	83639996	12		
	-5	83640018	34		
	-10	83640014	30		

Page 128 of 135



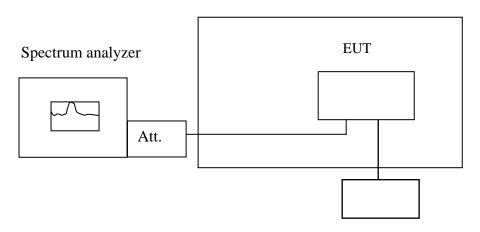
7.6 REQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

LIMIT

According to FCC §2.1055, FCC §22.355, .FCC §24.235,

Test Configuration

Temperature Chamber



Variable Power Supply

Remark: Measurement setup for testing on Antenna connector.

Page 129 of 135



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

TEST PROCEDURE

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (\pm 10%) and endpoint, record the maximum frequency change.

TEST RESULTS

No non-compliance noted.

Reference Frequency: GPRS Mid Channel 836.6 MHz @ 20°C						
	Limit: ± 2.5 ppm = 2090Hz					
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)		
4.2		83599987	2			
3.7	20	83599985	0	2090		
3.6 end		83599982	-3			

Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C									
	Limit: ± 2.5 ppm = 4700 Hz								
Power Supply Vac									
4.2		1879999950	-4						
3.7	20	1879999954	0	4700					
3.6 end		1879999951	-3						





Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C									
	Limit: ± 2.5 ppm = 2090Hz								
Power Supply Vac	, , ,								
4.2		8359999	10						
3.7	20	83599989	0	2090					
3.6 end		83599993	4						

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°C									
	Limit: ± 2.5 ppm = 4700 Hz								
Power Supply Vac									
4.2		1879999974	8						
3.7	20	1879999966	0	4700					
3.6 end		1879999973	7						





Reference Frequency: WCDMA Band II Mid Channel 1880 MHz @ 20°C										
	Limit: $\pm 2.5 \text{ ppm} = 4700 \text{ Hz}$									
Power Supply Vac										
4.2		1879999993	15							
3.7	20	1879999978	0	4700						
3.6 end		1879999984	6							

Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 20°C										
	Limit: ± 2.5 ppm = 2090Hz									
Power Supply Vac										
4.2		83599985	1							
3.7	20	83599984	0	2090						
3.6 end		83599998	14							



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

7.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBμV)				
rrequeries range (mnz)	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

TEST RESULTS

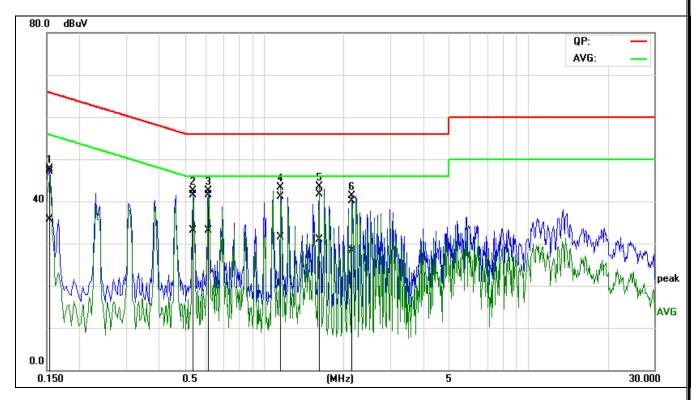
The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Operation Mode: Normal Link Test Date: April 14,2010

Temperature: 23°C **Tested by**: Star

Humidity: 50% RH

Conducted emissions (L1)

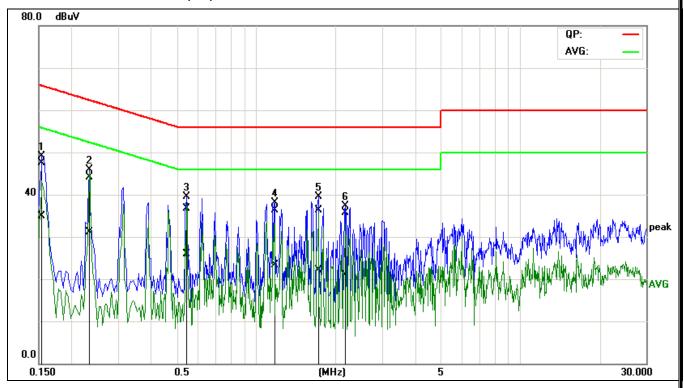


No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1546	36.99	25.65	10.05	47.04	35.70	65.75	55.75	-18.71	-20.05	Pass
2*	0.5398	30.62	22.25	10.84	41.46	33.09	56.00	46.00	-14.54	-12.91	Pass
3	0.6170	30.71	22.15	10.89	41.60	33.04	56.00	46.00	-14.40	-12.96	Pass
4	1.1596	30.03	20.46	11.03	41.06	31.49	56.00	46.00	-14.94	-14.51	Pass
5	1.6212	30.70	19.85	11.06	41.76	30.91	56.00	46.00	-14.24	-15.09	Pass
6	2.1604	29.04	17.16	11.10	40.14	28.26	56.00	46.00	-15.86	-17.74	Pass



Report No.: KS110218A01-RP1 FCC ID:Y9W-W800 Date of Issue: February 22, 2011

Conducted emissions (L2)



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	margin (dB)	
1*	0.1544	37.30	24.66	10.15	47.45	34.81	65.76	55.76	-18.31	-20.95	Pass
2	0.2329	33.84	20.88	10.17	44.01	31.05	62.35	52.35	-18.34	-21.30	Pass
3	0.5478	26.47	15.81	10.14	36.61	25.95	56.00	46.00	-19.39	-20.05	Pass
4	1.1722	26.07	13.06	10.27	36.34	23.33	56.00	46.00	-19.66	-22.67	Pass
5	1.7193	25.88	11.62	10.47	36.35	22.09	56.00	46.00	-19.65	-23.91	Pass
6	2.1881	25.00	10.31	10.61	35.61	20.92	56.00	46.00	-20.39	-25.08	Pass

- 1. Measuring frequencies from 0.15 MHz to 30MHz.
- 2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3. The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
- 4. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)
- 5. "-" means Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessa