FCC TEST REPORT

for

SUZHOU FOIF CO.,LTD

GNSS Receiver

Model Number: A30

FCC ID: 2AD3SA30

Prepared for : SUZHOU FOIF CO.,LTD

Address : 18 Tong Yuan Road, Suzhou, China

Prepared by: Keyway Testing Technology Co., Ltd.

Address : Building 1, Baishun Industrial Zone, Zhangmotou Town,

Dongguan, Guangdong, China

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Report No. : 15KWE012365F Date of Test : Jan. 18~25, 2015 Date of Report : Jan. 25, 2015

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FCC ID: 2AD3SA30

Keyway Testing Technology Co., Ltd.

Applicant: SUZHOU FOIF CO.,LTD

Address: 18 Tong Yuan Road, Suzhou, China

Manufacturer: SUZHOU FOIF CO.,LTD

Address: 18 Tong Yuan Road, Suzhou, China

E.U.T: GNSS Receiver

Model Number: A30

Trade Name: F()/F Serial No.: -----

Date of Receipt: Jan. 17, 2014 **Date of Test:** Jan. 18~25, 2015

Test Specification: FCC CFR Title 47 Part 2: 2014

FCC CFR Title 47 Part22 Subpart H: 2014 FCC CFR Title 47 Part24 Subpart E: 2014

Test Result: The equipment under test was found to be compliance with the

requirements of the standards applied.

Issue Date: Jan. 25, 2015

Tested by:

Reviewed by:

Jack Bu / Engineer

Andy Gao / Supervisor

Jade Yang/Supervisor

Other Aspects:

None.

Abbreviations: OK/P=passed

fail/F=failed

n.a/N=not applicable

E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Keyway Testing Technology Co., Ltd.

1.TEST SUMMARY

Test Items	Test Requirement	Result
Conducted RF Output Power	2.1046	PASS
Peak to Average Radio	2.1055,22.355 24.235,27.54	PASS
	2.1049,	
99% & -26 dB Occupied Bandwidth	22.917	PASS
	24.238,	
	2.1055,	
Frequency Stability	22.355	PASS
	24.235,	
	2.1051,2.1057	
Conducted Out of Band Emissions	22.917,	PASS
	24.238	
	2.1051,2.1057	
Band Edge	22.917,	PASS
	24.238	
Transportition Dedicated Devices (FIDD/FDD)	22.913,	DACC
Transmitter Radiated Power (EIPR/ERP)	24.232	PASS
	2.1053,2.1057	
Radiated Out of Band Emissions	of Band Emissions 22.917,	PASS
	24.238	

Measurement method according to TIA/EIA 603.D-2010

2.GENERAL PRODUCT INFORMATION

2.1. Product Function

Refer to Technical Construction Form and User Manual.

2.2. Description of Device (EUT)

Product Name:	GNSS Receiver		
Model No.:	A30		
	Bluetooth:2402~2480MHz		
	WCDMA Band II:		
	TX: 1852.4MHz - 1907.6MHz, (at intervals of 200kHz);		
Operation Frequency:	RX: 1932.4MHz - 1987.6MHz(at intervals of 200kHz);		
	WCDMA Band V:		
	Tx: 826.40 - 846.60MHz (at intervals of 200kHz);		
	Rx: 871.40 – 891.60MHz (at intervals of 200kHz)		
Channel numbers:	Bluetooth:79 Channels		
Channel separation:	Bluetooth:1M		
Modulation technology:	Bluetooth: GFSK,Pi/4DQPSK,8-DQPSK		
	WCDMA Mode with QPSK Modulation		
Antenna Type:	Integral Antenna		
Antenna gain:	0dBi (BT), 5.0dBi (WCDMA),		
Power supply:	Rechargeable lithium-ion battery 7.4V		

2.3. Difference between Model Numbers

None.

2.4. Test Supporting System

None.

2.5. Independent Operation Modes

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes						
Band	Band Radiated					
WCDMA Band II.	n RMC 12.2Kbps link	n RMC 12.2Kbps link				
WCDMA Band ∀.	n RMC 12.2Kbps link	n RMC 12.2Kbps link				

Note: The maximum power levels are RMC12.2Kbps mode for WCDMA band V, RMC12.2Kbps mode for WCDMA band II and V.

2.6. Test Facilities

Lab Qualifications: 944 Shielded Room built by ETS-Lindgren, USA

Date of completion: March 28, 2011

966 Chamber built by ETS-Lindgren, USA

Date of completion: March 28, 2011

Certificated by TUV Rheinland, Germany.

Registration No.: UA 50207153 Date of registration: July 13, 2011

Certificated by UL, USA Registration No.: 100567-237

Date of registration: September 1, 2011

Certificated by Intertek

Registration No.: 2011-RTL-L1-31 Date of registration: October 11, 2011

Certificated by Industry Canada

Registration No.: 9868A

Date of registration: December 8, 2011

Certificated by FCC, USA Registration No.: 370994

Date of registration: February 21, 2012

Certificated by CNAS China Registration No.: CNAS L5783 Date of registration: August 8, 2012

Name of Firm : Keyway Testing Technology Co., Ltd.

Site Location : Building 1, Baishun Industrial Zone, Zhangmutou

Town, Dongguan, Guangdong, China

2.7. List of Test and Measurement Instruments

2.7.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Apr. 27,14	Apr. 27,15
Artificial Mains Network	Rohde&Schwarz	ENV216	101315	Apr. 27,14	Apr. 27,15
Artificial Mains Network (AUX)	Rohde&Schwarz	ENV216	101314	Apr. 27,14	Apr. 27,15
RF Cable	FUJIKURA	3D-2W	944 Cable	Apr. 27,14	Apr. 27,15

2.7.2. For radiated emission test

Serial No.	Last Cal.	Next Cal.
404450		NEXT Odl.
101156	Apr. 27,14	Apr. 27,15
GB43130245	Apr. 30,14	Apr. 30,15
NW425	Apr. 30,14	Apr. 30,15
135452	Apr. 27,14	Apr. 27,15
22032	Apr. 30,14	Apr. 30,15
MY4511304	Apr. 27,14	Apr. 27,15
KW01	Apr. 27,14	Apr. 27,15
187016	Apr. 27,14	Apr. 27,15
3008A00251	Apr. 27,14	Apr. 27,15
0 966 Cable 1#	N/A	N/A
126913	N/A	N/A
11003	Apr. 27,14	Apr. 27,15
0 9170-068	Apr. 27,14	Apr. 27,15
3911A04271	Apr. 27,14	Apr. 27,15
MY44211125	Apr. 30,14	Apr. 30,15
11001	Apr. 27,14	Apr. 27,15
1 324216	Apr. 30,14	Apr. 30,15
-25-X KW032	Apr. 30,14	Apr. 30,15
-75-X2 KW035	Apr. 30,14	Apr. 30,15
60-X2 KW037	Apr. 30,14	Apr. 30,15
010964729	Apr. 27,14	Apr. 27,15
)-1P MAA9906-005	Apr. 27,14	Apr. 27,15
3215420	Apr. 27,14	Apr. 27,15
0025164	Apr. 27,14	Apr. 27,15
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	NW425 135452 0 22032 8 MY4511304 KW01 187016 3008A00251 0 966 Cable 1# 126913 1 11003 70 9170-068 3911A04271 8 MY44211125 C 11001 11 324216 6-25-X KW032 6-75-X2 KW035 60-X2 KW037 0 010964729 0-1P MAA9906-005	NW425 Apr. 30,14 135452 Apr. 27,14 0 22032 Apr. 30,14 KW01 Apr. 27,14 187016 Apr. 27,14 187016 Apr. 27,14 10 966 Cable 1# N/A 126913 N/A 1 11003 Apr. 27,14 10 9170-068 Apr. 27,14 3911A04271 Apr. 27,14 3911A04271 Apr. 27,14 11 324216 Apr. 30,14

3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators



(EUT: GNSS Receiver)

.

- 3.3. Test Operation Mode and Test Software None.
- 3.4. Special Accessories and Auxiliary Equipment None.
- 3.5. Countermeasures to Achieve EMC Compliance None.

3.6. Test Environment:

Ambient conditions in the test laboratory:

Items	Actual
Temperature (°C)	21~23
Humidity (%RH)	50~65

4. EMISSION TEST RESULTS

4.1. Conducted RF Output Power

4.1.1. Limit

According to FCC section 2.1046(a), FCC part22.913(a) and FCC part24.232(b), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

4.1.2. Test Setup

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power.

4.1.3. Test Result

Here the lowest, middle and highest channels are selected to perform testing to verify the conducted RF output power of the EUT.

Measurement data

The conducted power tables are as follows:

Average Conducted Power						
Band	WCDMA Band II.			WCDMA Band V.		
Frequency	1852.4	1880.0	1907.6	826.4	836.6	846.6
RMC 12.2Kbps	22.76	22.65	22.67	20.85	20.77	20.74
RMC 64kbps	22.69	22.54	22.59	20.79	20.65	20.66
RMC 144kbps	22.62	22.55	22.59	20.73	20.54	20.58
RMC 384kbps	22.55	22.55	22.59	20.67	20.43	20.49
HSDPA Subtest-1	22.34	22.32	22.39	20.48	20.43	20.47
HSDPA Subtest-2	22.35	22.31	22.39	20.42	20.42	20.47
HSDPA Subtest-3	22.30	22.27	22.31	20.37	20.38	20.39
HSDPA Subtest-4	22.27	22.18	22.33	20.34	20.28	20.41
HSUPA Subtest-1	22.25	22.27	22.27	20.32	20.38	20.35
HSUPA Subtest-2	22.22	22.16	22.29	20.29	20.26	20.37
HSUPA Subtest-3	22.35	22.26	22.33	20.42	20.37	20.41
HSUPA Subtest-4	22.17	22.19	22.29	20.24	20.29	20.37
HSUPA Subtest-5	22.20	22.18	22.21	20.27	20.28	20.29
ARM	22.28	22.15	22.25	20.36	20.30	20.39

Note: Measurement Uncertainty: ±2.6 dB.

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4.2. Peak to Average Radio

4.2.1. Limit

According to FCC section 27.50(d)(5) , the peak to average ratio(PAR) of the transmission may not exceed 13dB.

4.2.2. Test Setup

See section 5.1.2 of this report.

4.2.3. Test Result

Measurement data as follows:

Dond	WCDMA Band II.			
Band	Low	Middle	High	
Frequency	1852.40	1880.00	1907.6	
Peak-to average ratio(dB)	0.51	0.53	0.49	

Dond	WCDMA Band V.			
Band	Low	Middle	High	
Frequency	826.4	836.6	846.6	
Peak-to average ratio(dB)	0.54	0.51	0.52	

Note: Measurement Uncertainty: ±0.2 dB.

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4.3. 99% Occupied Bandwidth

4.3.1. Limit

According to FCC section 2.1049 and FCC part22.913(a) and FCC part24.232(b), the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth,

4.3.2. Test Setup

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power.

4.3.3. Test Result

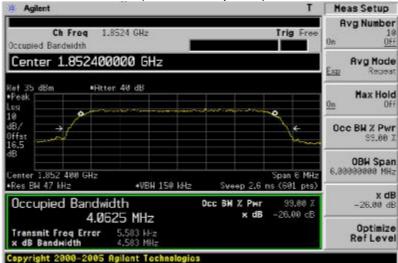
Measurement Data

EUT Mode	Frequency (MHz)	99% Occupy bandwidth (kHz)
	1852.4	4062.5
WCDMA Band II (RMC 12.2Kbps link)	1880.0	4042.6
(ramo relevado mino)	1907.6	4035.2
	826.4	4051.8
WCDMA Band V (RMC 12.2Kbps link)	836.0	4039.6
(KWO 12.2KDp3 IIIK)	846.6	4049.2

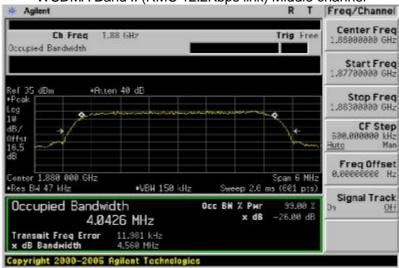
Note: Measurement Uncertainty: ±20Hz.

Test plot as follows:



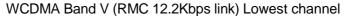


WCDMA Band II (RMC 12.2Kbps link) Middle channel



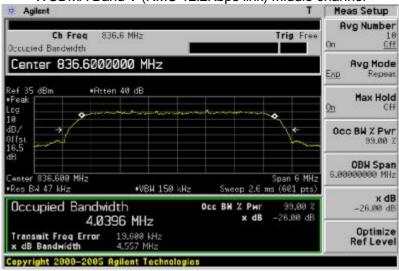
WCDMA Band II (RMC 12.2Kbps link) Highest channel



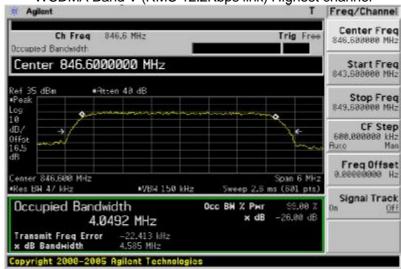




WCDMA Band V (RMC 12.2Kbps link) Middle channel



WCDMA Band V (RMC 12.2Kbps link) Highest channel



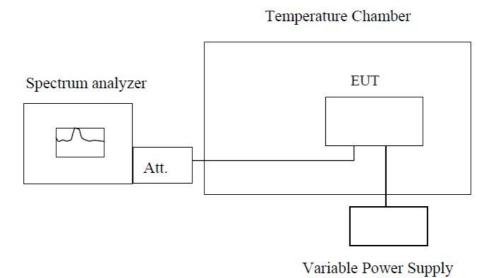
4.4. Frequency Stability

4.4.1. Limit

According to FCC section 22.355 and FCC section 24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

4.4.2. Test Setup



Note: Measurement setup for testing on Antenna connector

The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber.

The EUT is commanded by the System Simulator (SS) to operate at the maximum output power

4.4.3. Test Result

The nominal, highest and lowest extreme voltages are separately 3.7VDC, 4.2VDC and 3.6VDC which are specified by the applicant; the normal temperature here used is 25°C. The frequency deviation limit of 850MHz band is ±2.5ppm, and 1900MHz is ±1ppm

Normal

Т	est Conditions		Frequ	ency Deviat	ion		
Band	Power(Vdc)	Temperatu re(°C)	Frequency Error(Hz)	ppm	Limit	Result	
	3.7	-30	35	0.0186			
	3.7	-20	65	0.0346			
WODAA	3.7	-10	46	0.0245			
WCDMA	3.7	0	51	0.0271			
Band II	3.7	10	53	0.0282			
Middle channel=940	3.7	20	44	0.0234	±1	DACC	
0	3.7	30	37	0.0197	ΞI	PASS	
channel=188	3.7	40	41	0.0218			
0.0MHz	3.7	50	49	0.0261			
0.01011 12	4.25	25	45	0.0239			
	3.70	25	41	0.0218			
	3.40	25	48	0.0255			
	3.7	-30	57	0.0681			
	3.7	-20	45	0.0538			
14/00144	3.7	-10	56	0.0669			
WCDMA	3.7	0	64	0.0765			
Band V	3.7	10	34	0.0406			
Middle channel=418	3.7	20	36	0.0430	±1	PASS	
0	3.7	30	38	0.0454	ΣI	PASS	
channel=836.	3.7	40	27	0.0323			
6MHz	3.7	50	66	0.0789			
OIVII IZ	4.25	25	36	0.0430			
	3.70	25	29	0.0347			
	3.40	25	43	0.0514			

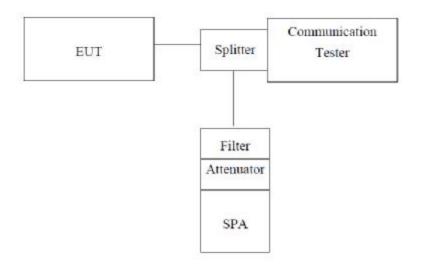
Note: Measurement Uncertainty: ±20Hz.

4.5. Conducted Out of Band Emissions

4.5.1. Limit

According to FCC section 22.917(a) and FCC section 24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10*log(P)dB. This calculated to be -13dBm.

4.5.2. Test Setup



Note: Measurement setup for testing on Antenna connector

4.5.3. Measurement 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= 1MHz, VBW = 3MHz, Start=30MHz, Stop= 10th harmonic.

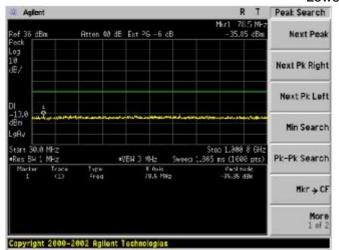
Limit = -13dBm

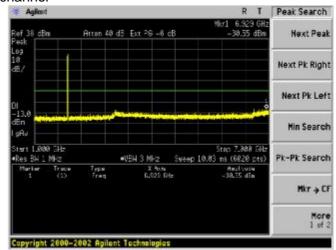
4.5.4. Test Result

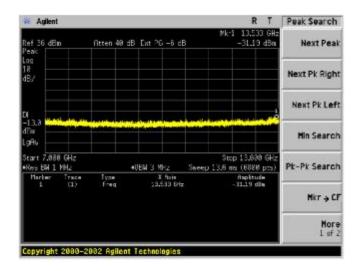
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

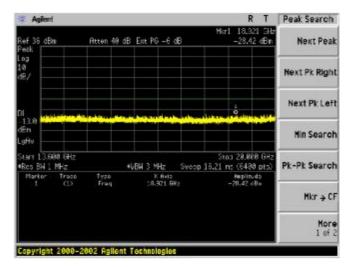
Test plot as follows:

WCDMA Band II (RMC 12.2Kbps link) Lowest channel



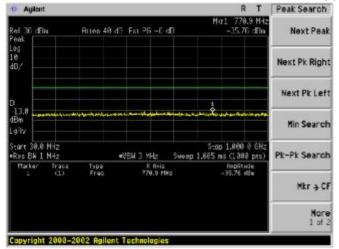


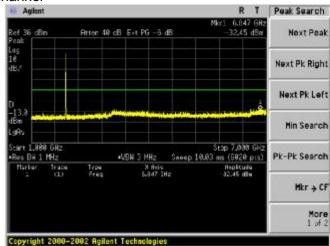


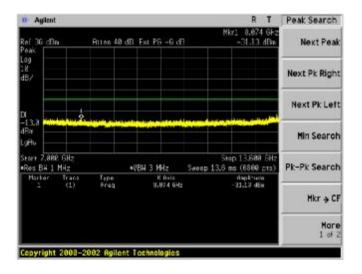


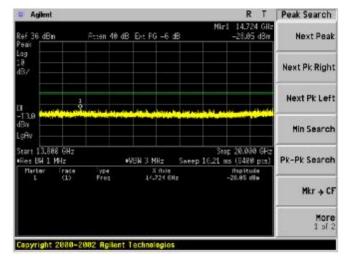
WCDMA Band II (RMC 12.2Kbps link)

Middle channel



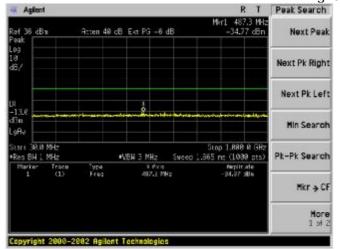


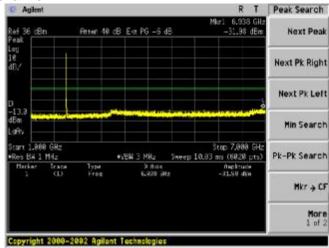


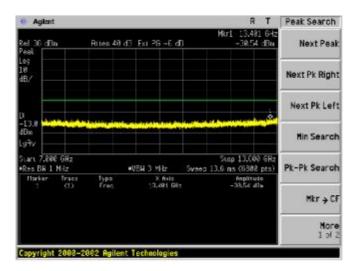


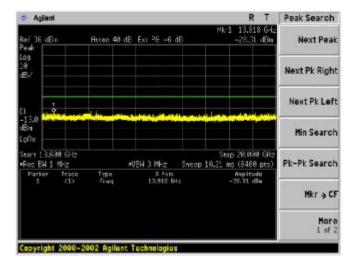
WCDMA Band II (RMC 12.2Kbps link)

Highest channel



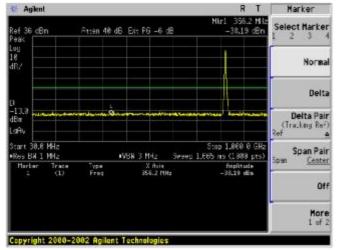


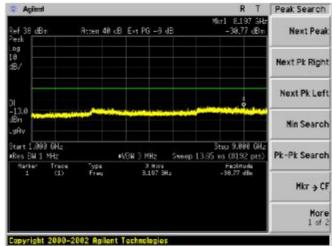




WCDMA Band V (RMC 12.2Kbps link)

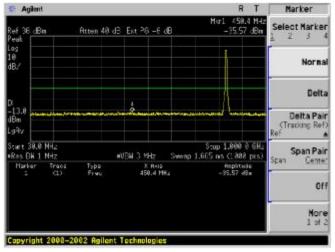
Lowest channel

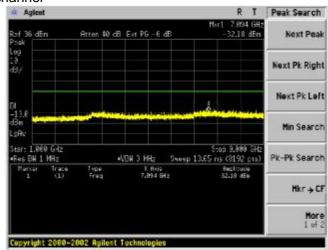




WCDMA Band V (RMC 12.2Kbps link)

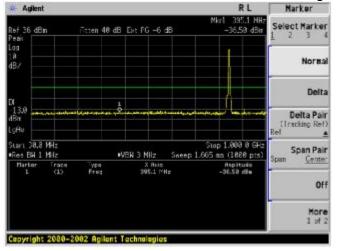
Middle channel

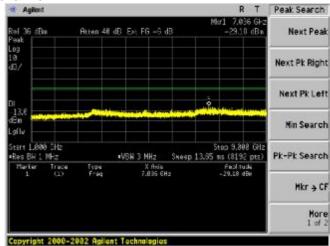




WCDMA Band V (RMC 12.2Kbps link)

Highest channel



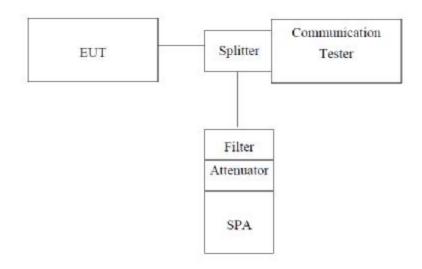


4.6. Conducted Out of Band Emissions

4.6.1. Limit

According to FCC section 22.917(b) and FCC section 24.238(b), 27.53(g)(h) in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

4.6.2. Test Setup



Note: Measurement setup for testing on Antenna connector

4.6.3. Measurement Procedure

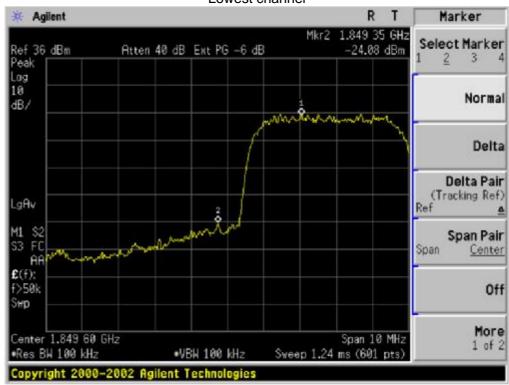
The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer and the System Simulator with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the System Simulator to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the System Simulator.

4.6.4. Test Result

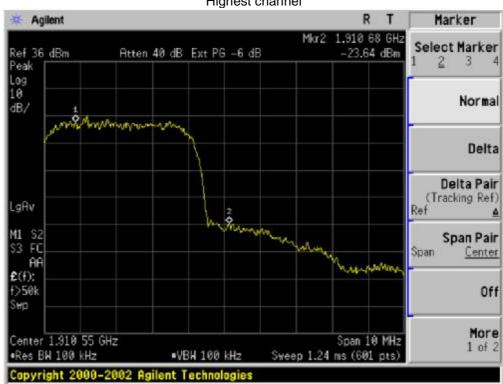
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

Test plot as follows:

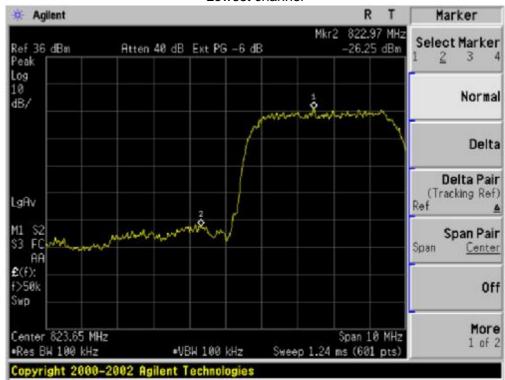
WCDMA Band II (RMC 12.2Kbps link) Lowest channel



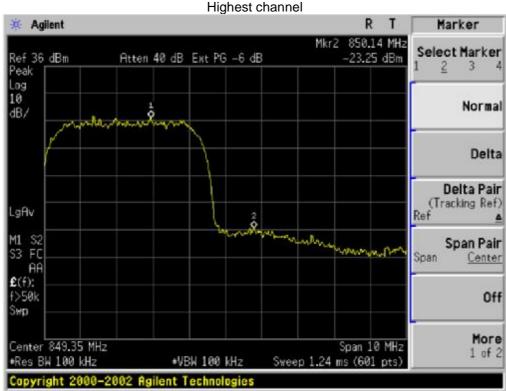
WCDMA Band II (RMC 12.2Kbps link) Highest channel



WCDMA Band V (RMC 12.2Kbps link) Lowest channel



WCDMA Band V (RMC 12.2Kbps link)



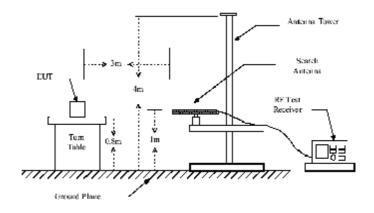
4.7. Transmitter Radiated Power (EIRP/ERP)

4.7.1. Limit

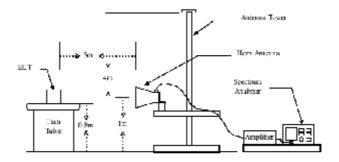
According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

4.7.2. Test Setup

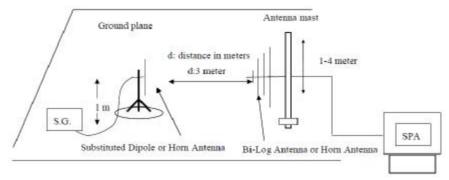
Below 1GHz



Above 1GHz



Substituted method:



FCC ID: 2AD3SA30

4.7.3. Measurement 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. all test in Full-Anechoic Chamber.

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

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

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

4.7.4. Test Result

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
		П	V	22.89		Pass
			Н	17.78		
	1	F.4	V	15.67		
	Lowest	E1	Н	16.76	33.01	
		E2	V	15.56		
		EZ	Н	19.45		
		Н	V	22.47		Pass
	Middle		Н	17.36	33.01	
WCDMA		E1	V	16.76		
Band II			Н	18.36		
		E2	V	17.75		
			Н	20.47		
		Н	V	22.57		Pass
		П	Н	21.54		
	Highest	E1	V	15.54		
			Н	20.34		
		E2	V	14.63		
			Н	17.23		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
		Н	V	20.34		Pass
			Н	16.25		
	1	-	V	15.76		
	Lowest	E1	Н	14.38	33.01	
		E2	V	15.42		
		EZ	Н	19.44		
		Н	V	20.78		Pass
	Middle		Н	18.43	33.01	
WCDMA		E1	V	16.36		
Band V			Н	15.76		
		E2	V	17.88		
			Н	20.57		
	Highest	н	V	20.67		
			Н	17.45		
		E1	V	15.65		Doss
			Н	15.87		Pass
		E2	V	14.51		
			Н	17.67		

4.8. Radiated Out of Band Emissions

4.8.1. Limit

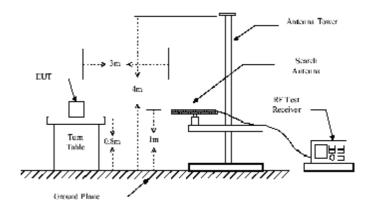
According to FCC section 22.917(a) and section 24.238(a), 27.53(g) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power

(P) by a factor of at least 43+10*log(P)dB. This calculated to be -13dBm.

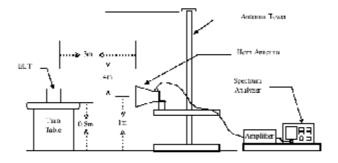
The spurious emission with frequency band 1900 according to FCC section 2.1057.

4.8.2. Test Setup

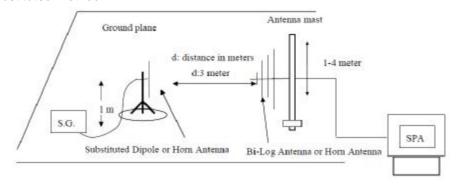
Below 1GHz



Above 1GHz



Substituted method:



FCC ID: 2AD3SA30

4.8.3. Measurement 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. all test in Full-Anechoic Chamber.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency

(low, middle and high channels). Once spurious emission was 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.

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

Note: Measurement Uncertainty: ±3.6 dB.

Dand	Frequency	Spurio	us Emission	Limit	Decult
Band	(MHz)	Polarization	Level(dBm)	(dBm)	Result
	54.78	Vertical	-74.40	-13	PASS
	3704.80	Vertical	-24.64		
	5557.20	Vertical	-25.91		
	7409.60	Vertical	-32.63		
WCDMA	9262.00	Vertical	-39.39		
Band II	11114.40	Vertical	-44.74		
Lowest	145.78	Horizontal	-75.38		
Lowest	3704.80	Horizontal	-21.80		
	5557.20	Horizontal	-27.16		
	7409.60	Horizontal	-35.26		
	9262.00	Horizontal	-41.46		
	11114.40	Horizontal	-46.50		

Dond	Frequency Spuri		us Emission	Limit	Result
Band	(MHz)	Polarization	Level(dBm)	(dBm)	Result
	51.12	Vertical	-74.37	-13	PASS
	3760.00	Vertical	-23.69		
	5640.00	Vertical	-25.93		
	7520.00	Vertical	-32.54		
MCDMA	9400.00	Vertical	-39.87		
WCDMA Band II	11280.00	Vertical	-44.31		
Middle	147.78	Horizontal	-75.34		
Middle	3760.00	Horizontal	-22.43		
	5640.00	Horizontal	-27.26		
	7520.00	Horizontal	-35.22		
	9400.00	Horizontal	-41.54		
	11280.00	Horizontal	-46.20		

Band	Frequency	Spurio	us Emission	Limit	Result
Danu	(MHz)	Polarization	Level(dBm)	(dBm)	Result
	54.09	Vertical	-74.43	-13	PASS
	3815.20	Vertical	-22.80		
	5722.80	Vertical	-27.27		
	7630.40	Vertical	-32.15		
WCDMA	9538.00	Vertical	-39.43		
Band II	11445.60	Vertical	-44.64		
	151.76	Horizontal	-73.80		
Highest	3815.20	Horizontal	-22.12		
	5722.80	Horizontal	-27.20		
	7630.40	Horizontal	-35.36		
	9538.00	Horizontal	-41.87		
	11445.60	Horizontal	-46.48		

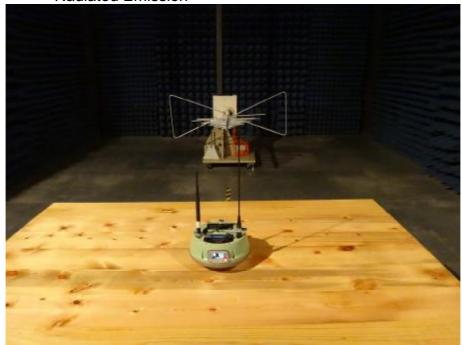
Band	Frequency	Spurio	us Emission	Limit	Result
Danu	(MHz)	Polarization	Level(dBm)	(dBm)	Result
	76.37	Vertical	-74.17		PASS
	1652.80	Vertical	-24.57		
	2479.20	Vertical	-25.83		
	3305.60	Vertical	-32.53	-13	
MCDMA	4132.00	Vertical	-39.27		
WCDMA Band V	4958.40	Vertical	-44.61		
Lowest	179.78	Horizontal	-75.15		
Lowest	1652.80	Horizontal	-21.73		
	2479.20	Horizontal	-27.08		
	3305.60	Horizontal	-35.15		
	4132.00	Horizontal	-41.34		
	4958.40	Horizontal	-46.36		

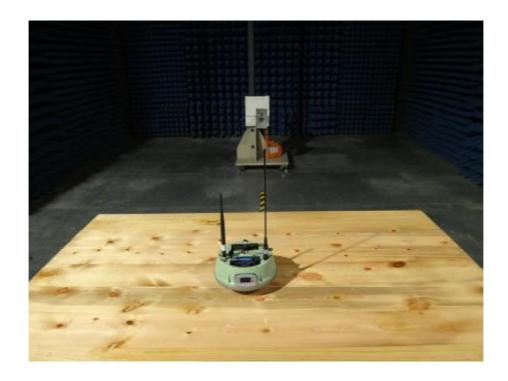
Dond	Frequency	Spurio	Limit	Result	
Band	(MHz)	Polarization	Level(dBm)	(dBm)	Result
	61.94	Vertical	-74.14		PASS
	1673.20	Vertical	-23.62	-13	
	2509.80	Vertical	-25.85		
	3346.40	Vertical	-32.44		
MODMA	4183.00	Vertical	-39.74		
WCDMA Band V	5019.60	Vertical	-44.18		
Middle	178.89	Horizontal	-75.11		
ivildale	1673.20	Horizontal	-22.36		
	2509.80	Horizontal	-27.18		
	3346.40	Horizontal	-35.11		
	4183.00	Horizontal	-41.42		
	5019.60	Horizontal	-46.06		

Dand	Frequency	Spurio	Spurious Emission		Decult
Band	(MHz)	Polarization	Level(dBm)	(dBm)	Result
	56.96	Vertical	-74.20		PASS
	1693.20	Vertical	-22.73		
	2539.80	Vertical	-27.19	-13	
	3386.40	Vertical	-32.05		
	4233.00	Vertical	-39.31		
WCDMA	5079.60	Vertical	-44.51		
Band V Highest	175.19	Horizontal	-73.58		
riigilest	1693.20	Horizontal	-22.05		
	2539.80	Horizontal	-27.12		
	3386.40	Horizontal	-35.25		
	4233.00	Horizontal	-41.74		
	5079.60	Horizontal	-46.34		

5. PHOTOGRAPHS OF TEST SET-UP

Radiated Emission





6. PHOTOGRAPHS OF THE EUT

Please see annex.

END.