



## FCC 47 CFR PART 22H and 24E

### Test Report

Product Type : Sensation 3.0  
Applicant : One Media Partners Inc.  
Address : 1701 E. Woodfield Road, Suite 315, Schaumburg, IL 60173, USA  
Trade Name : OneMedia  
Model Number : W01  
Test Specification : FCC 47 CFR PART 22H: Oct, 2012  
FCC 47 CFR PART 24E: Oct, 2012  
ANSI/TIA-603-C-2004  
  
Application Purpose : Original  
Receive Date : July 08, 2015  
Test Period : July 09, 2015 to July 29, 2015  
Issue Date : July 30, 2015

#### Issue by

A Test Lab Techno Corp.  
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Taiwan Accreditation Foundation accreditation number: 1330

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## Revision History

Rev.	Issue Date	Revisions	Revised By
00	July 30, 2015	Initial Issue	



## Verification of Compliance

Issued Date: 07/30/2015

Product Type : Sensation 3.0

Applicant : One Media Partners Inc.

Address : 1701 E. Woodfield Road, Suite 315, Schaumburg, IL 60173,  
USA

Trade Name : OneMedia

Model Number : W01

FCC ID : 2AFF5W01

EUT Rated Voltage : 3.7V/360mAh

Test Voltage : 120 Vac / 60 Hz

Applicable Standard : FCC 47 CFR PART 22H: Oct, 2012  
FCC 47 CFR PART 24E: Oct, 2012  
ANSI/TIA-603-C-2004

Application Purpose : Original

Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.  
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<http://www.atl-lab.com.tw/e-index.htm>



The above equipment was tested by A Test Lab Techno Corp. 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: 2009 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 22H, Part 24E.

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

Approved By

:

(Manager)

(Murphy Wang)

Reviewed By

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(Testing Engineer)

(Fly Lu)



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## 1 General Information

### 1.1. EUT Description

Applicant	One Media Partners Inc.			
Applicant Address	1701 E. Woodfield Road, Suite 315, Schaumburg, IL 60173, USA			
Manufacturer	Yinuo Technologies, Ltd.			
Manufacturer Address	Rm 409-410, Building A, Pengnian University City Area Honghualing Industrial District 1213 Liuxian Avenue, Xili, Nanshan District, Shenzhen, China			
Product Type	Sensation 3.0			
Trade Name	OneMedia			
Model Number	W01			
FCC ID	2AFF5W01			
IMEI No.	865621452863597			
Hardware Version	V2.0			
Software Version	V1.0.13			
GSM/GPRS	Band	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
	850	824.2 ~ 848.8	869.2 ~ 893.8	GMSK
	1900	1850.2 ~ 1909.8	1930.2 ~ 1989.8	GMSK
Channel Control	Auto			
Release version of GSM	R99			
Type of Antenna	Internal Antenna			
Antenna Gain	GSM/GPRS 850: 1.0dBi/ GSM/GPRS1900: 0.6dBi			
Max. RF Output power	GPRS 850	:	32.94 dBm /	1.968 W
	GPRS 1900	:	29.98 dBm /	0.995 W
Max. ERP/EIRP	GPRS 850	:	31.77 dBm /	1.503 W
	GPRS 1900	:	28.48 dBm /	0.705 W
Emission Designator	GPRS 850	:	243KGXW	
	GPRS 1900	:	246KGXW	



## 1.2. Mode of Operation

ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: GSM/GPRS 850 Mode
Mode 2: GSM/GPRS 1900 Mode
--

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

GSM850 & GSM1900 and GPRS850 & GPRS1900 are GMSK modulation. After pre-test, the output powers of GSM 850 and GSM1900 are lower than the 4Down 1Up (duty factor 1/8) mode of GPRS, so the GPRS 850(4D1U) and GPRS 1900(4D1U) are the worst case of the applied device, and only record the worst case in the test report.

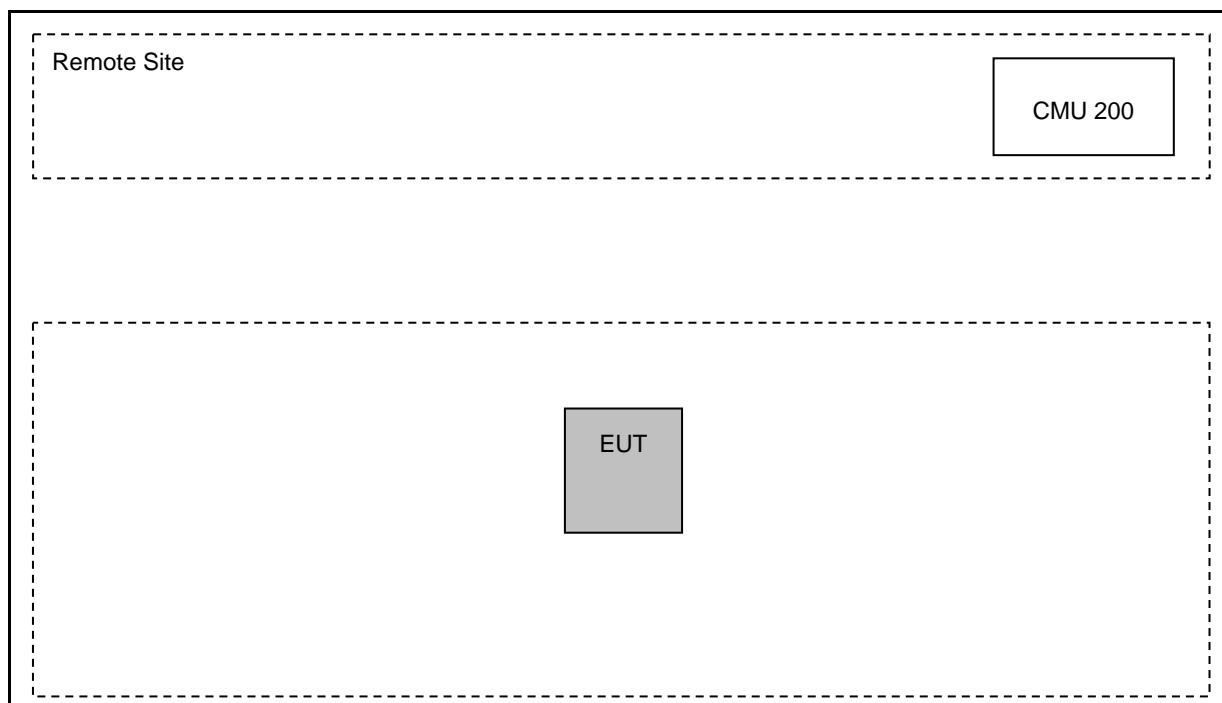
## 1.3. EUT Exercise Software

1	Setup the EUT and Base Station (CMU200) as shown on 1.4.
2	Turn on the power of all equipment.

Note : We used fully-charged battery during the test.



## 1.4. Configuration of Test System Details



Auxiliary equipmentdescription				
Product		Manufacturer	Model Number	S/N
1	Battery	SHENZHEN JIAYUAN TONGDA TECHNOLOGY CO.,LTD	353232	---

## 1.5. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950





## 1.6. Summary of Test Result

Description	FCC Rule	Limit	Result
Conducted Output Power	§2.1046	N/A	Pass
Effective Radiated Power	§22.913(a)(2)	< 7 Watts for FCC (<6.3 Watts for IC)	Pass
Equivalent Isotropic Radiated Power	§24.232(c)	< 2 Watts	Pass
Emission Bandwidth & Occupied Bandwidth	§2.1049 §22.917(a) §24.238(a)	N/A	Pass
Band Edge Measurement	§2.1051 §22.917(a) §24.238(a)	< $43+10\log_{10}(P[\text{Watts}])$	Pass
Conducted Spurious Emission	§2.1051 §22.917(a) §24.238(a)	< $43+10\log_{10}(P[\text{Watts}])$	Pass
Field Strength of Spurious Radiation	§2.1053 §22.917(a) §24.238(a)	< $43+10\log_{10}(P[\text{Watts}])$	Pass
Frequency Stability for Temperature & Voltage	§2.1055 §22.355 §24.235	< 2.5 ppm	Pass

## 2 RF Output Power Test

### 2.1. Limit

N/A

### 2.2. Test Instruments

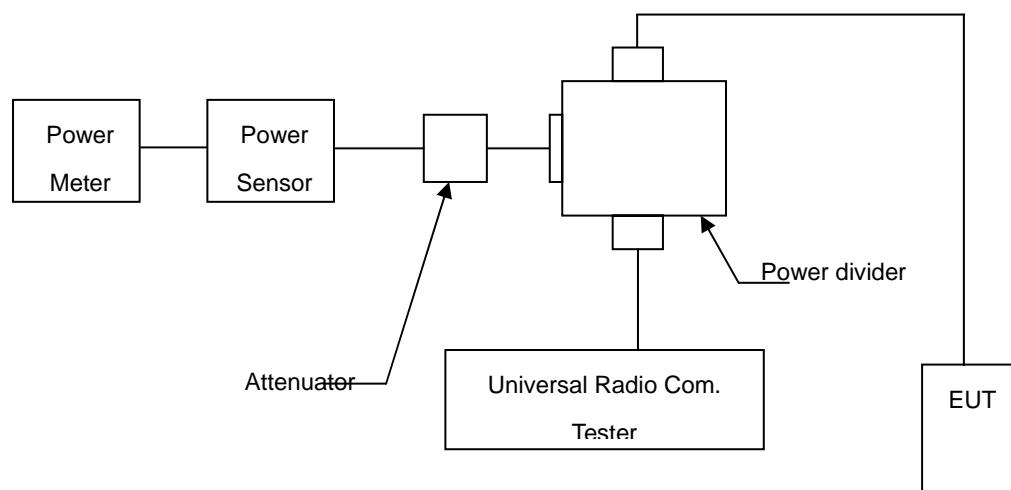
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Universal Radio Communication Tester	R & S	CMU200	109369	08/07/2014	(1)
Single Channel PK Power Sensor	Agilent	N1911A	MY45101619	12/21/2014	(1)
Wideband Power Meter	Agilent	N1921A	MY45241957	12/21/2014	(1)
RF cable	WOKEN	--	S02-140512-011	07/13/2015	(1)
RF cable	WOKEN	--	S02-140512-018	07/13/2015	(1)
RF cable	WOKEN	--	S02-140428-045	07/13/2015	(1)
RF cable	WOKEN	--	S02-140428-049	07/13/2015	(1)
RF cable	WOKEN	--	S02-140428-041	07/13/2015	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: <sup>(1)</sup> Calibration period 1 year. <sup>(2)</sup> Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

All the RF cables apply to 9 KHz to 40GHz.

### 2.3. Test Setup





## 2.4. Test Procedure

The measurement is made according to ANSI/TIA-603-C-2004 as follows:

1. The transmitter output was connected to power meter and base station through Power Divider.
2. Set base station for EUT at GSM 850: PCL=5 and PCS 1900: PCL=0.
3. Select lowest, middle, and highest channels for each band.

## 2.5. Uncertainty

The measurement uncertainty is defined as for RF output power measurement is 1.2 dB.

## 2.6. Test Result

Model Number	W01						
Test Item	RF Output Power						
Date of Test	07/14/2015			Test Site		TE05	
Bands	Modulation Type	Data Rate	Frequency (MHz)	Burst Average Power		Peak Power	
				(dBm)	(W)	(dBm)	(W)
GSM 850	GMSK	1Down1Up	824.2	32.53	1.791	32.81	1.910
			836.6	32.54	1.795	32.82	1.914
			848.8	<b>32.61</b>	1.824	32.85	1.928
GSM 1900	GMSK	1Down1Up	1850.20	29.55	0.902	29.83	0.962
			1880.00	<b>29.67</b>	0.927	29.92	0.982
			1909.80	29.61	0.914	29.88	0.973
GRRS 850 Multi Class :33 Max Up:4 Max Down:5 Sum:6	GMSK	4Down1Up (Duty Factor 1/8)	824.2	32.61	1.824	32.85	1.928
			836.6	32.67	1.849	32.89	1.945
			848.8	<b>32.72</b>	<b>1.871</b>	<b>32.94</b>	<b>1.968</b>
		3Down2Up (Duty Factor 2/8)	824.2	31.92	1.556	32.08	1.614
			836.6	31.89	1.545	32.03	1.596
			848.8	31.91	1.552	32.06	1.607
		2Down3Up (Duty Factor 3/8)	824.2	30.21	1.050	30.35	1.084
			836.6	30.18	1.042	30.31	1.074
			848.8	30.13	1.030	30.29	1.069
		1Down4Up (Duty Factor 4/8)	824.2	29.42	0.875	29.61	0.914
			836.6	29.37	0.865	29.54	0.899
			848.8	29.33	0.857	29.49	0.889
GRRS 1900 Multi Class :33 Max Up:4 Max Down:5 Sum:6	GMSK	4Down1Up (Duty Factor 1/8)	1850.20	29.66	0.925	29.89	0.975
			1880.00	<b>29.74</b>	<b>0.942</b>	<b>29.98</b>	<b>0.995</b>
			1909.80	29.72	0.938	29.95	0.989
		3Down2Up (Duty Factor 2/8)	1850.20	28.37	0.687	28.52	0.711
			1880.00	28.53	0.713	28.67	0.736
			1909.80	28.54	0.714	28.69	0.740
		2Down3Up (Duty Factor 3/8)	1850.20	26.29	0.426	26.48	0.445
			1880.00	26.49	0.446	26.63	0.460
			1909.80	26.52	0.449	26.61	0.458
		1Down4Up (Duty Factor 4/8)	1850.20	25.45	0.351	25.62	0.365
			1880.00	25.67	0.369	25.82	0.382
			1909.80	25.69	0.371	25.86	0.385



## 3 CCDF Procedure for PAPR

### 3.1. Limit:

In addition, the transmitter's peak-to-average power ratio (PAPR) shall not exceed 13 dB.

### 3.2. Test Procedure:

Use one of the procedures presented in 4.1 to measure the total peak power and record as PPk. Use one of the applicable procedures presented 4.2 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$PAPR (dB) = PPk (dBm) - PAvg (dBm)$ .

Note: We pre-test the GSM mode and the GPRS mode, and only the worst case is recorded here.

### 3.3. Test result

GPRS850	Ch.	Frequency(MHZ)	PAPR(dB)	Limit(dB)	Result
	128	824.2	0.24	13	Pass
	190	836.6	0.22	13	Pass
	251	848.8	0.22	13	Pass
GPRS1900	Ch.	Frequency	PAPR(dB)	limit(dB)	Result
	512	1850.2	0.23	13	Pass
	690	1880.0	0.24	13	Pass
	810	1909.8	0.23	13	Pass



## 4 Effective Radiated Power / Equivalent Isotropic Radiated Power Test

### 4.1. Limit

For FCC Part 22.913(a)(2): The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

For FCC Part 24.232(b): The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

### 4.2. Test Instruments

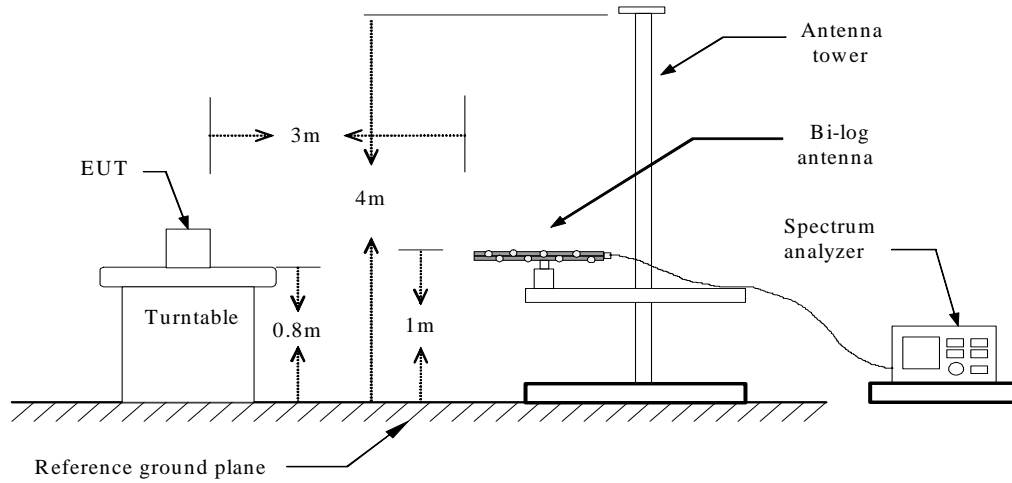
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/10/2015	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/10/2015	(1)
Signal Generator	Agilent	N5182B	MY53050382	10/12/2014	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/21/2015	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/21/2015	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/16/2015	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/10/2015	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/13/2015	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-321	06/13/2015	(1)
Trilog-Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	SB AC VULB	9168-419	05/16/2015	(1)
Double-Ridged Waveguide Horn	ETS-Lindgren	3117	00128055	08/09/2014	(1)
RF cable	WOKEN	--	S02-140409-026	07/13/2015	(1)
RF cable	WOKEN	--	S02-140409-027	07/13/2015	(1)
RF cable	WOKEN	--	S02-140409-028	07/13/2015	(1)
RF cable	WOKEN	--	S02-140409-052	07/13/2015	(1)
Test Site	ATL	TE01	888001	08/28/2014	(1)

Remark: <sup>(1)</sup> Calibration period 1 year. <sup>(2)</sup> Calibration period 2 years.

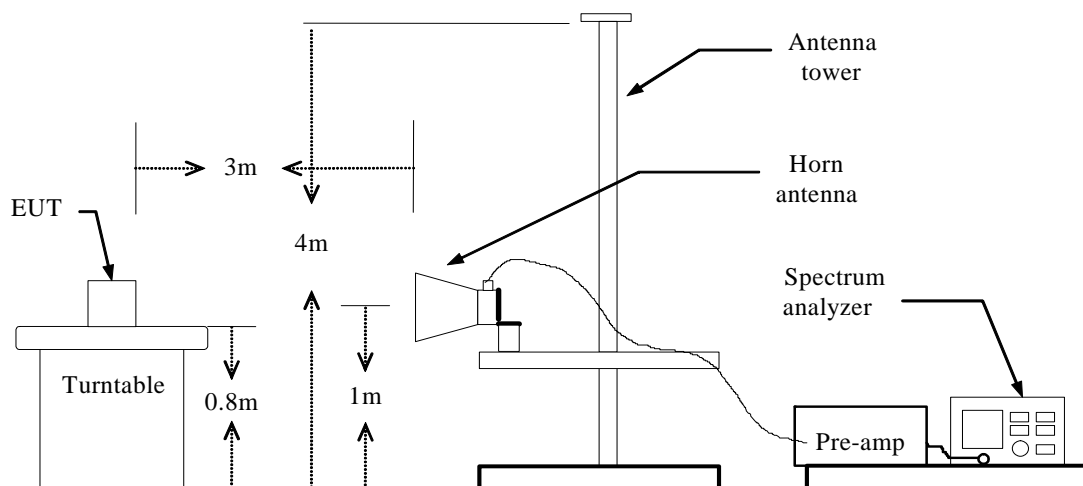
Note: N.C.R. = No Calibration Request. All the RF cables apply to 9 KHz to 40GHz.

### 4.3. Setup

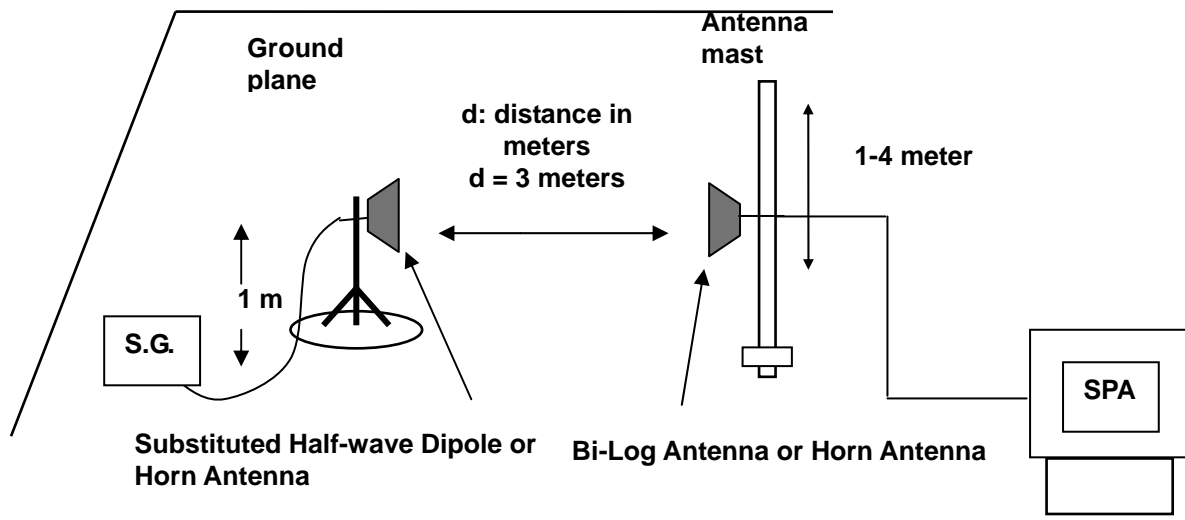
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



## 4.4. Test Procedure

The measurement is made according to ANSI/TIA-603-C-2004 as follows:

The EUT was placed on a 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:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)}$$

Note: We pre-test the GSM mode and the GPRS mode, and only the worst case is recorded here.

## 4.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is  $\pm 3.072$  dB.



## 4.6. Test Result

Model Number	W01							
Test Item	ERP/EIRP							
Date of Test	07/27/2015					Test Site	TE01	
Bands	Modulation Type	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	ERP		Limit
						(dBm)	(W)	
GPRS 850	GMSK	824.2	H	18.90	10.81	29.71	0.935	< 7W
			V	20.87	10.81	31.68	1.472	< 7W
		836.6	H	18.53	10.82	29.35	0.861	< 7W
			V	20.95	10.82	<b>31.77</b>	<b>1.503</b>	< 7W
		848.8	H	18.34	10.90	29.24	0.839	< 7W
			V	20.65	10.90	31.55	1.429	< 7W

Model Number	W01							
Test Item	ERP/EIRP							
Date of Test	07/27/2015					Test Site	TE01	
Bands	Modulation Type	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	EIRP		Limit
						(dBm)	(W)	
GPRS 1900	GMSK	1850.20	H	14.56	9.76	24.32	0.270	< 2W
			V	18.40	9.76	28.16	0.655	< 2W
		1880.00	H	13.98	9.94	23.92	0.247	< 2W
			V	18.40	9.94	28.34	0.682	< 2W
		1909.80	H	14.01	10.14	24.15	0.260	< 2W
			V	18.34	10.14	<b>28.48</b>	<b>0.705</b>	< 2W

Note: 1. ERP/EIRP = Read Level + Correction factor.

2. For GPRS signals, a peak detector is used, with RBW = VBW= 1 MHz.





## 5 Emission Bandwidth & Occupied Bandwidth Test

### 5.1. Limit

The Occupied Bandwidth Limit:

N/A.

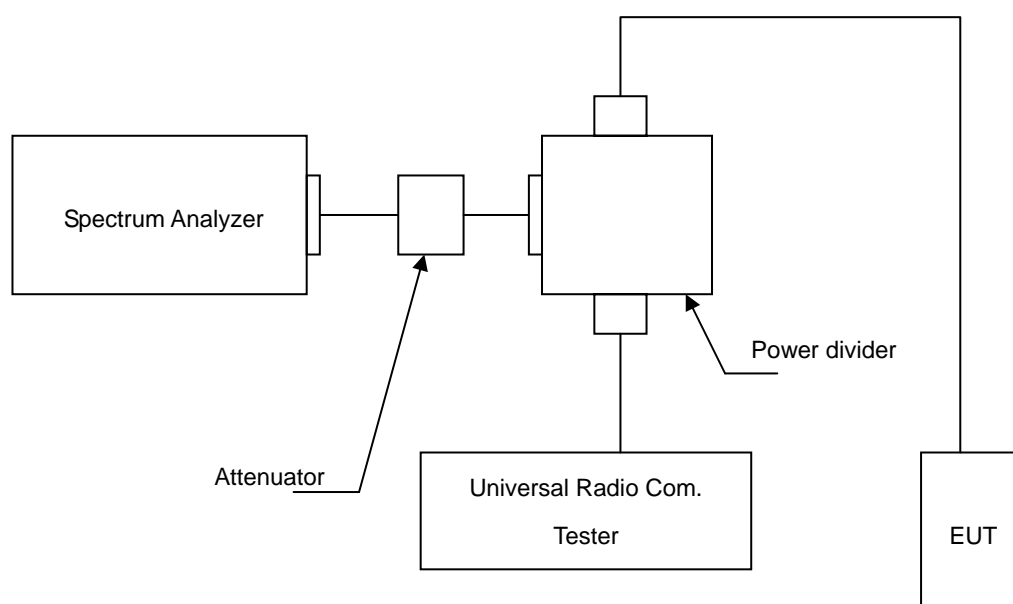
### 5.2. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Universal Radio Communication Tester	R & S	CMU200	109369	08/07/2014	(1)
Spectrum Analyzer	Agilent	N9020A	MY53420615	05/16/2015	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power Divider	Agilent	87302C	3239A00760	N.C.R.	-----
RF cable	WOKEN	--	S02-140512-011	07/13/2015	(1)
RF cable	WOKEN	--	S02-140512-018	07/13/2015	(1)
RF cable	WOKEN	--	S02-140428-045	07/13/2015	(1)
RF cable	WOKEN	--	S02-140428-049	07/13/2015	(1)
RF cable	WOKEN	--	S02-140428-041	07/13/2015	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: <sup>(1)</sup> Calibration period 1 year. <sup>(2)</sup> Calibration period 2 years.

Note: N.C.R. = No Calibration Request. All the RF cables apply to 9 KHz to 40GHz.

### 5.3. Setup





## 5.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT was connected to Spectrum Analyzer and Base Station via Power Divider.
2. The occupied bandwidth of middle channel for the highest and lowest RF powers was measured.

Note: We pre-test the GSM mode and the GPRS mode, and only the worst case is recorded here.

## 5.5. Uncertainty

The measurement uncertainty is defined as  $\pm 10\text{Hz}$

## 5.6. Test Result

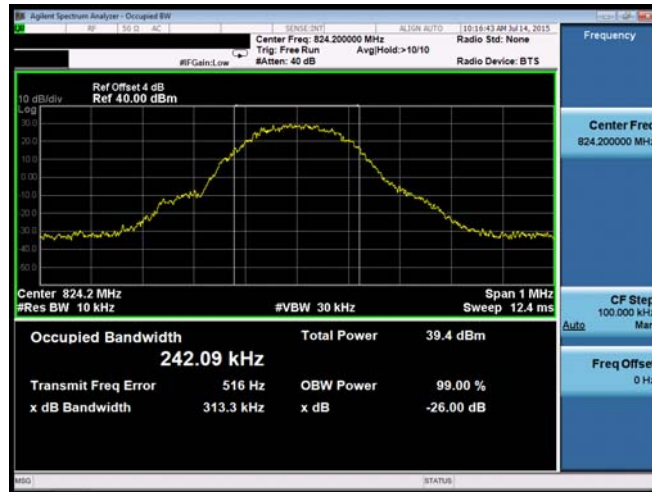
Model Number	W01				
Test Item	Emission Bandwidth & Occupied Bandwidth				
Date of Test	07/14/2015			Test Site	TE05
Bands	Channel	Frequency (MHz)	-26dB Bandwidth (kHz)	99% Bandwidth (kHz)	Note
GPRS 850	128	824.2	313.3	242.09	RBW:10KHz , VBW:30KHz
	190	836.6	307.8	242.14	RBW:10KHz , VBW:30KHz
	251	848.8	313.8	242.57	RBW:10KHz , VBW:30KHz
GPRS 1900	512	1850.20	318.0	244.30	RBW:10KHz , VBW:30KHz
	661	1880.00	313.8	244.28	RBW:10KHz , VBW:30KHz
	810	1909.80	313.6	245.82	RBW:10KHz , VBW:30KHz



## 5.7. Test Graphs

Mode 1: GPRS 850 Mode

824.2 MHz



836.6 MHz



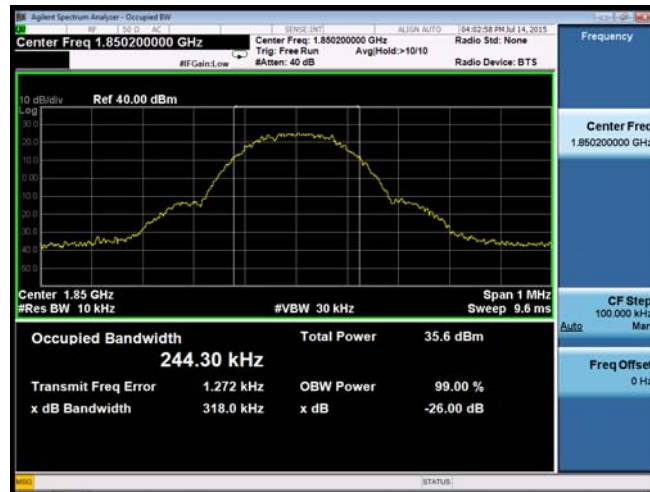
848.8 MHz





## Mode 2: GPRS 1900 Mode

1850.20 MHz



1880.00 MHz



1909.80 MHz





## 6 Band Edge Test

### 6.1. Limit

The Band Edge Limit:

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.

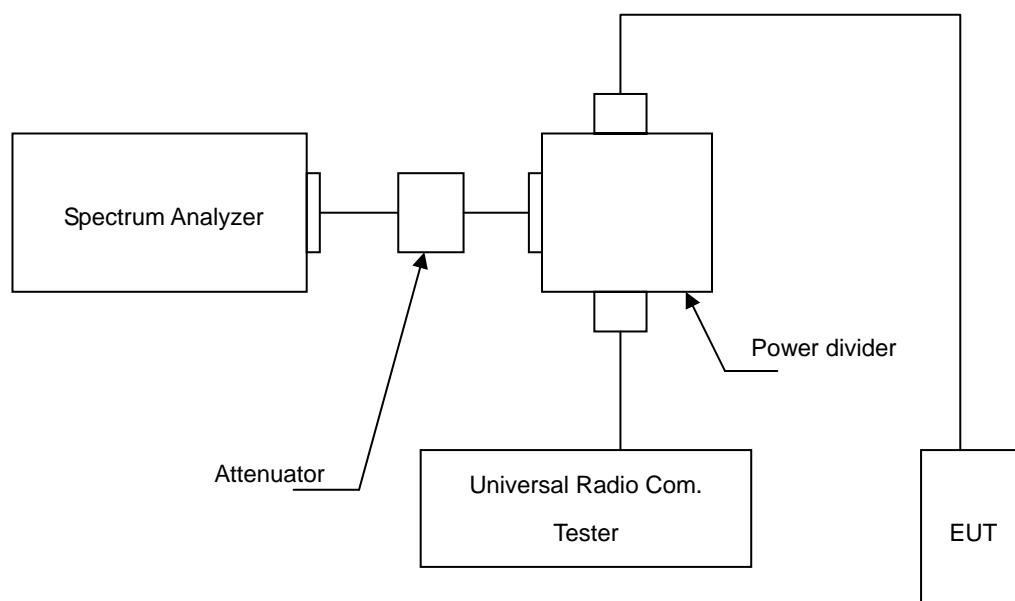
### 6.2. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Universal Radio Communication Tester	R & S	CMU200	109369	08/07/2014	(1)
Spectrum Analyzer	Agilent	N9020A	MY53420615	05/16/2015	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power Divider	Agilent	87302C	3239A00760	N.C.R.	-----
RF cable	WOKEN	--	S02-140512-011	07/13/2015	(1)
RF cable	WOKEN	--	S02-140512-018	07/13/2015	(1)
RF cable	WOKEN	--	S02-140428-045	07/13/2015	(1)
RF cable	WOKEN	--	S02-140428-049	07/13/2015	(1)
RF cable	WOKEN	--	S02-140428-041	07/13/2015	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: <sup>(1)</sup> Calibration period 1 year. <sup>(2)</sup> Calibration period 2 years.

Note: N.C.R. = No Calibration Request. All the RF cables apply to 9 KHz to 40GHz.

### 6.3. Setup





## 6.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT was connected to Spectrum Analyzer and Base Station via Power Divider.
2. The band edge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.
3. The band edge setting:  
RB=5.1 kHz; VB=15 kHz for GSM 850 and PCS 1900.

Note: We pre-test the GSM mode and the GPRS mode, and only the worst case is recorded here.

## 6.5. Uncertainty

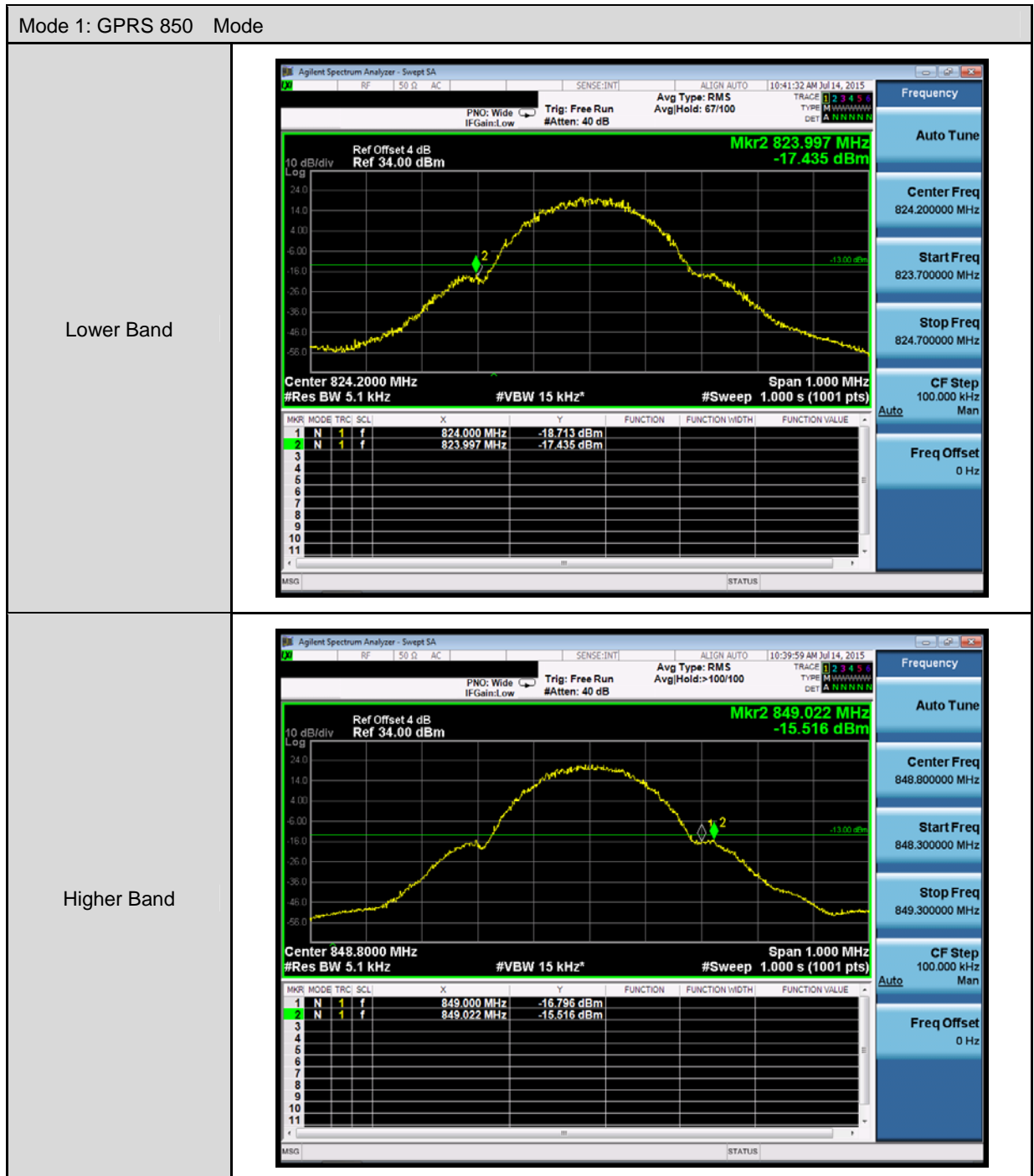
The measurement uncertainty is defined as  $\pm 10\text{Hz}$

## 6.6. Test Result

Model Number		W01				
Test Item		Band Edge				
Date of Test		07/14/2015			Test Site	TE05
Bands		Channel	Frequency (MHz)	Bandedge (dBm)	Limit (dBm)	Result
GPRS 850	Lower	128	823.997	-17.435	-13	Pass
	Higher	251	849.022	-15.516	-13	Pass
GPRS 1900	Lower	512	1849.980	-21.136	-13	Pass
	Higher	810	1910.018	-20.955	-13	Pass

## 6.7. Test Graphs

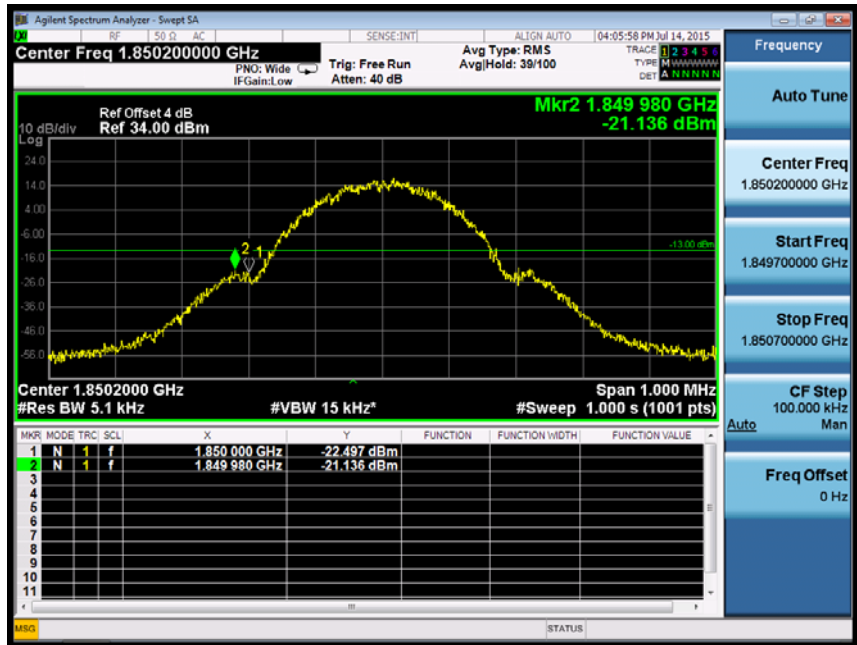
Mode 1: GPRS 850    Mode



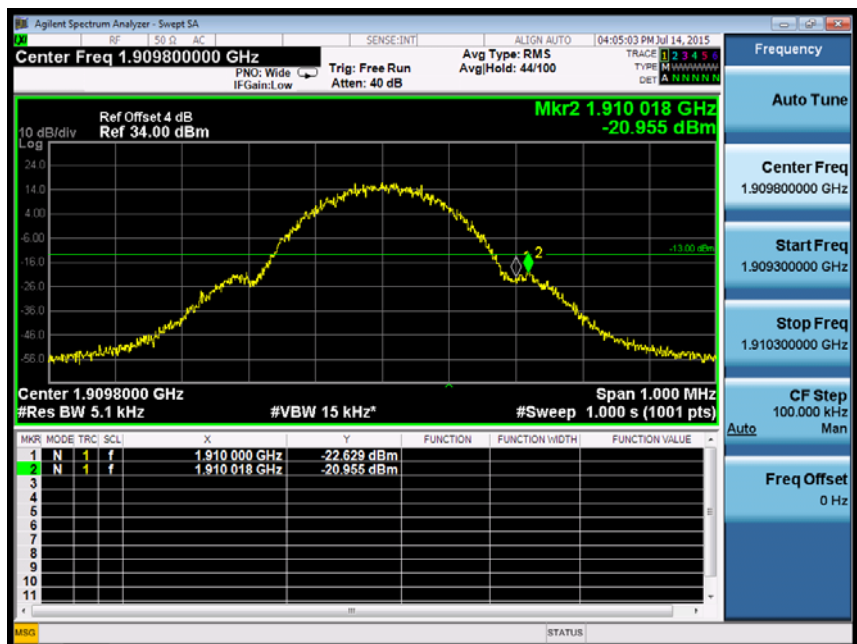


## Mode 2: GPRS 1900 Mode

Lower Band



Higher Band





## 7 Conducted Spurious Emission Test

### 7.1. Limit

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.

### 7.2. Test Instruments

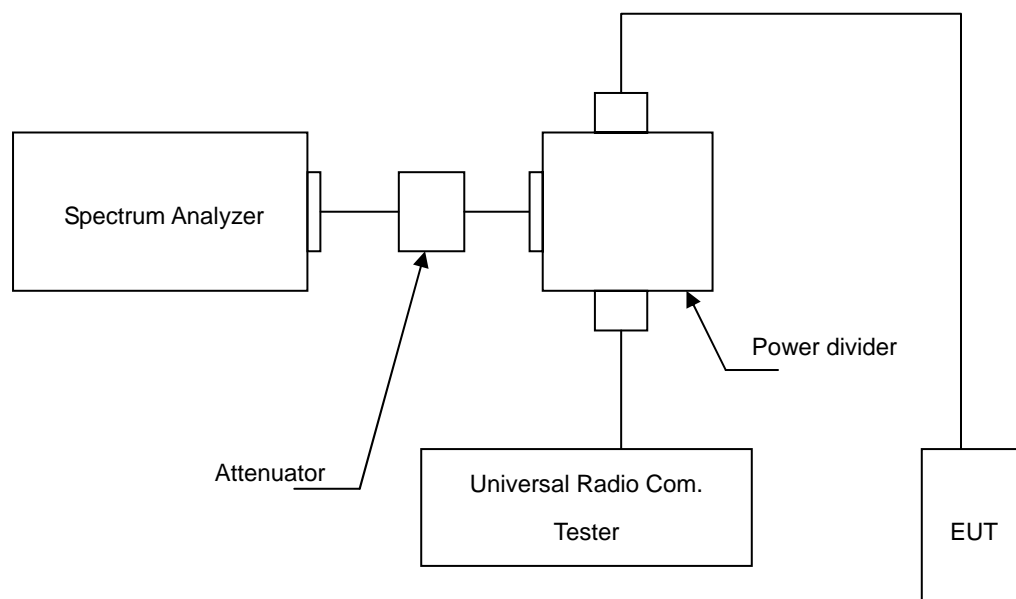
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Universal Radio Communication Tester	R & S	CMU200	109369	08/07/2014	(1)
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/16/2014	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power Divider	Agilent	87302C	3239A00760	N.C.R.	-----
RF cable	WOKEN	--	S02-140512-011	07/13/2015	(1)
RF cable	WOKEN	--	S02-140512-018	07/13/2015	(1)
RF cable	WOKEN	--	S02-140428-045	07/13/2015	(1)
RF cable	WOKEN	--	S02-140428-049	07/13/2015	(1)
RF cable	WOKEN	--	S02-140428-041	07/13/2015	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: <sup>(1)</sup> Calibration period 1 year. <sup>(2)</sup> Calibration period 2 years.

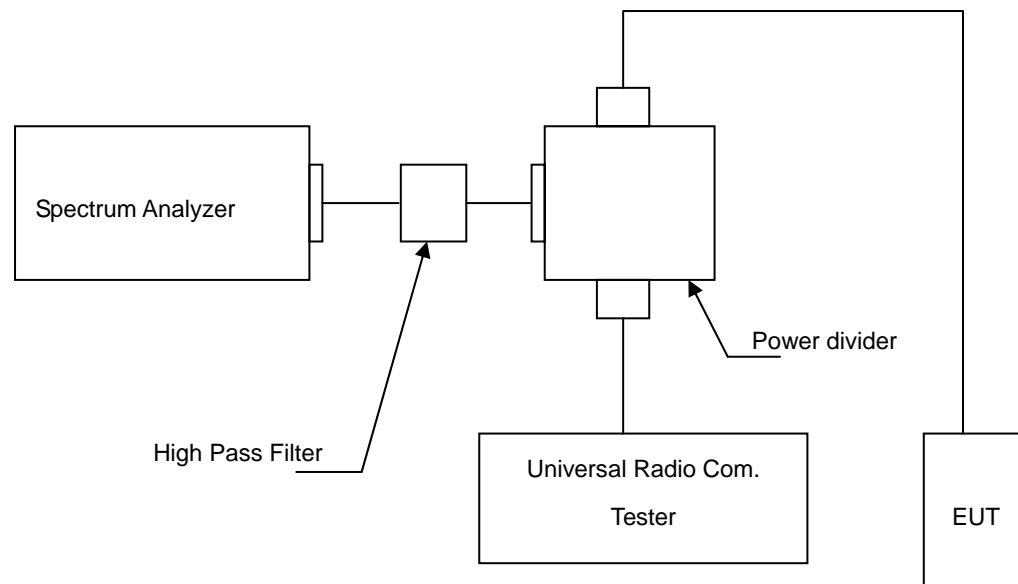
Note: N.C.R. = No Calibration Request. All the RF cables apply to 9 KHz to 40GHz.

### 7.3. Setup

Below 2.8GHz



Above 2.8GHz



#### 7.4. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via Power Divider.
  2. The middle channel for the highest RF power within the transmitting frequency was measured.
  3. The conducted spurious emission for the whole frequency range was taken.
  4. Test setting at GSM 850 RBW=100 kHz, VBW>RBW; PCS 1900 RBW=1MHz, VBW> RBW
- Note: We pre-test the GSM mode and the GPRS mode, and only the worst case is recorded here.



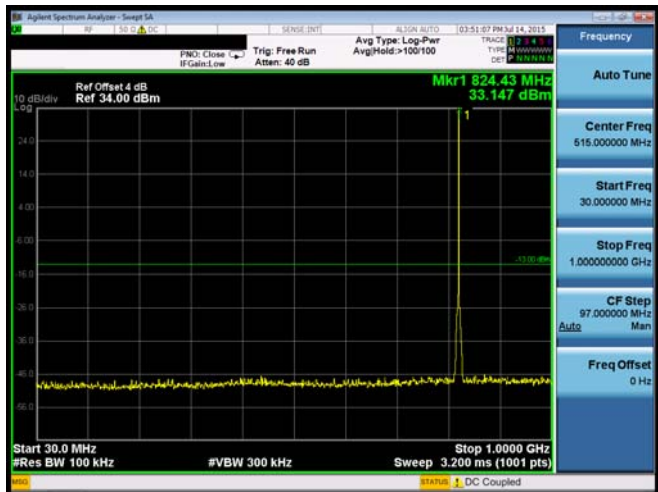
#### 7.5. Uncertainty

The measurement uncertainty is evaluated as  $\pm 2.24$  dB.




#### 7.6. Test Result

Model Number	W01		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 1 / Mode 2		
Date of Test	07/14/2015	Test Site	TE05

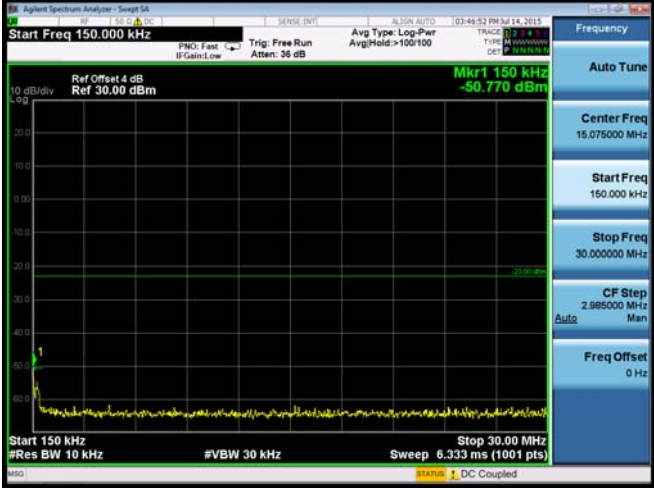
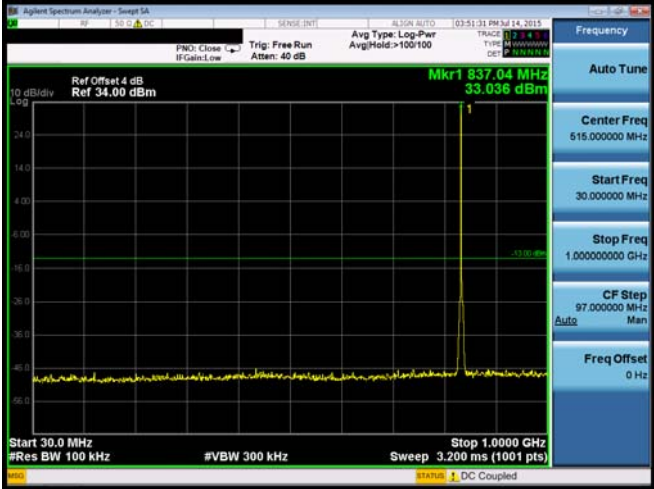



Mode 1: GPRS 850 Mode(CH128)	
9kHz-15MHz	
15MHz-30MHz	
30MHz-1GHz	






1GHz-5GHz	
5GHz-10GHz	
Mode 1: GPRS 850 Mode(CH190)	
9kHz-15MHz	

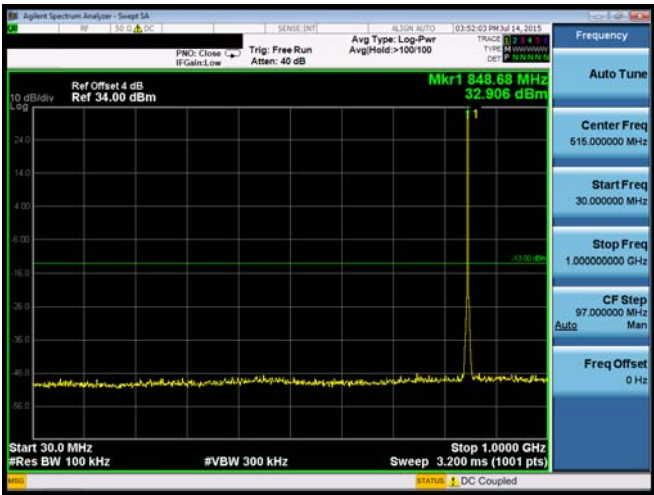

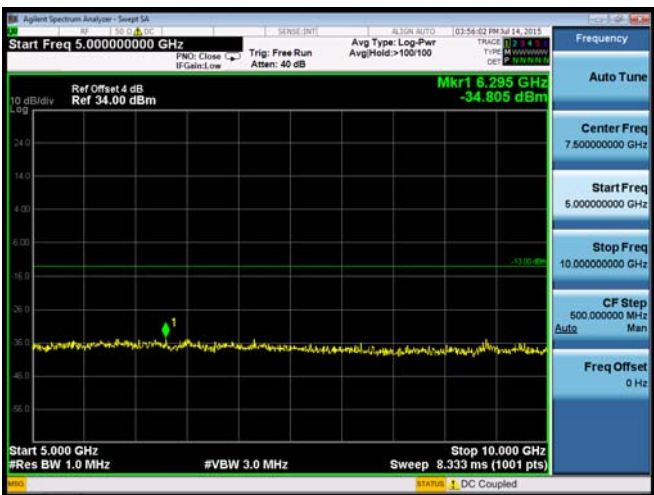


15MHz-30MHz	
30MHz-1GHz	
1GHz-5GHz	




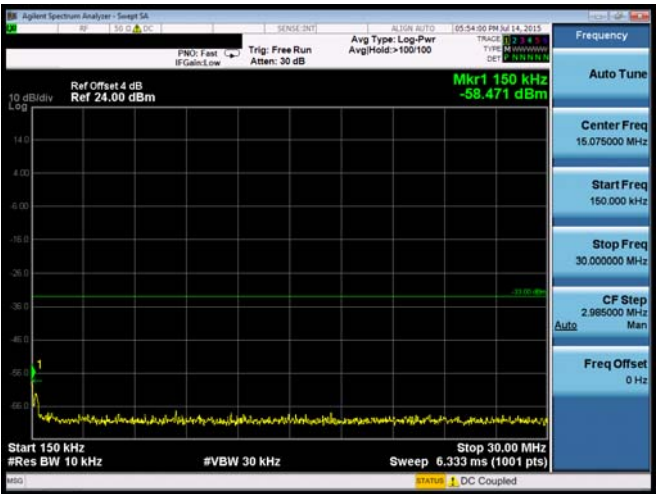
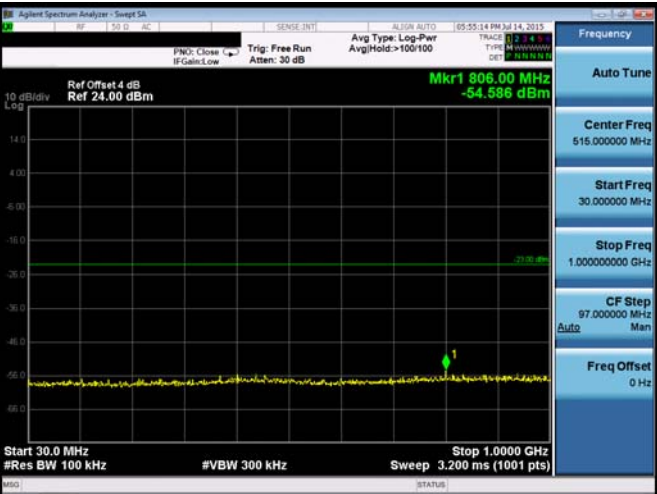
5GHz-10GHz	
Mode 1: GPRS 850 Mode(CH251)	
9kHz-15MHz	
15MHz-30MHz	



30MHz-1GHz	
1GHz-5GHz	
5GHz-10GHz	



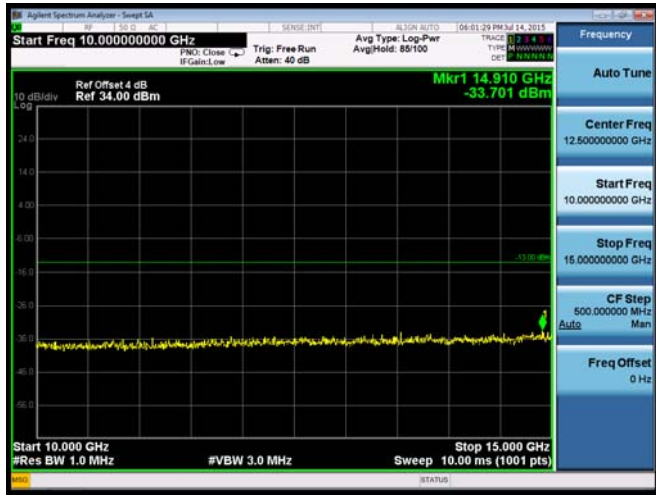




Mode 2: GPRS 1900 Mode(CH512)	
9kHz-15MHz	
15MHz-30MHz	
30MHz-1GHz	

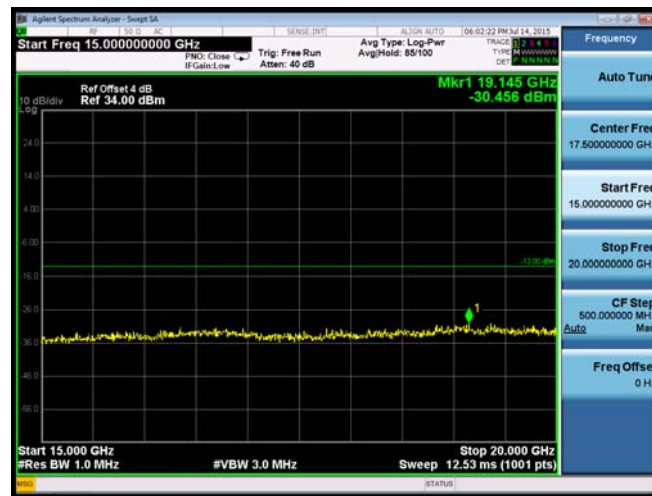




1GHz-5GHz	
5GHz-10GHz	
10GHz-15GHz	

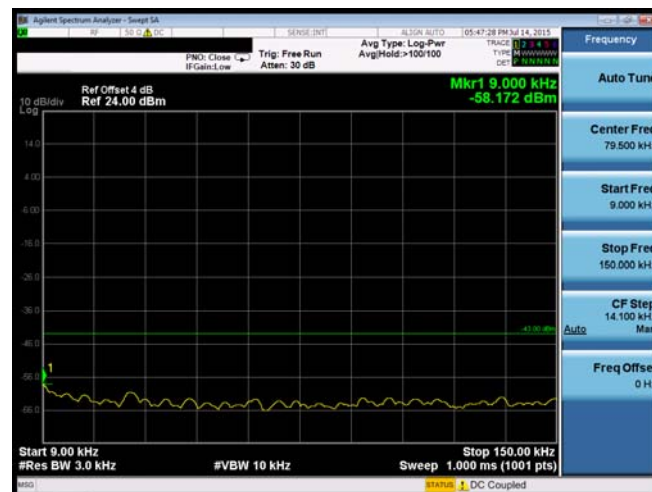


15GHz-20GHz



Mode 2 : GPRS 1900 Mode(CH661)

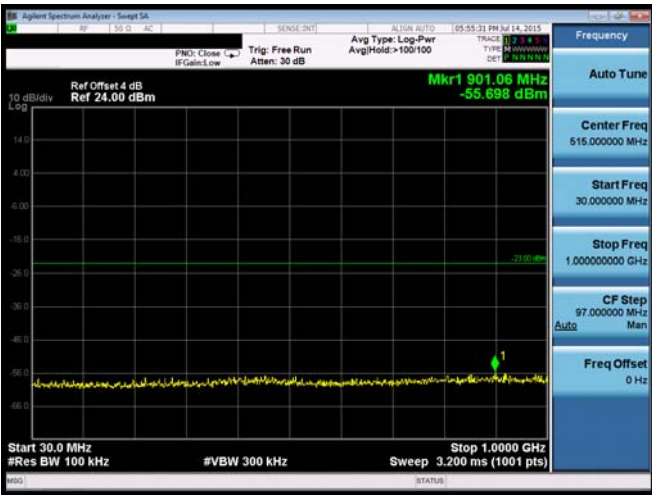


9kHz-15MHz



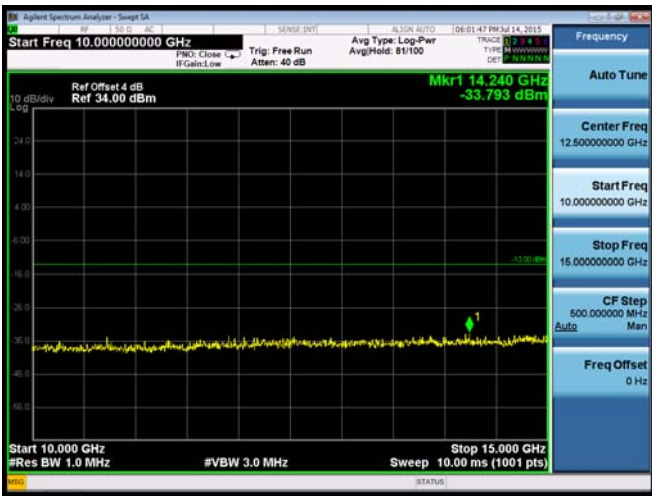

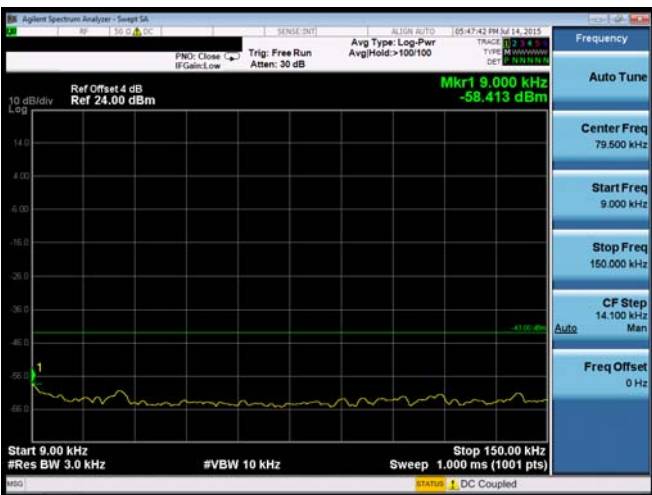
15MHz-30MHz



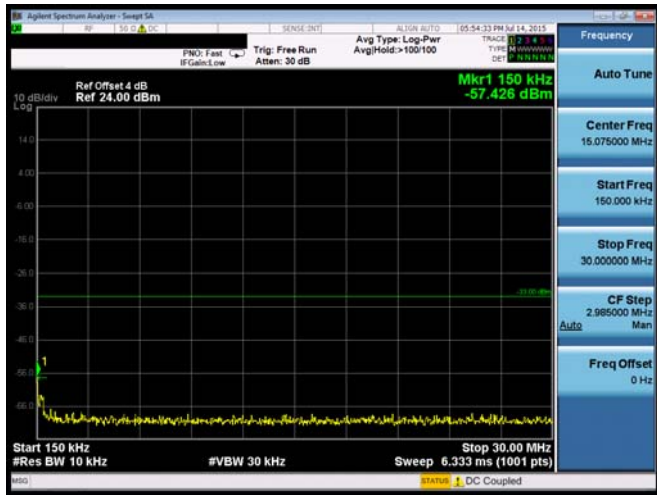
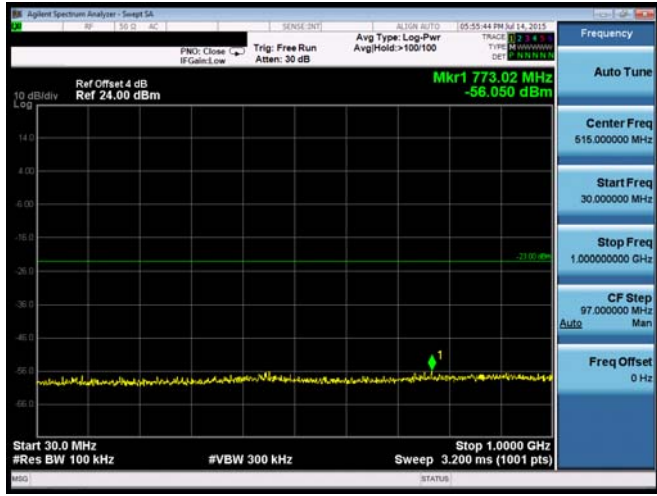
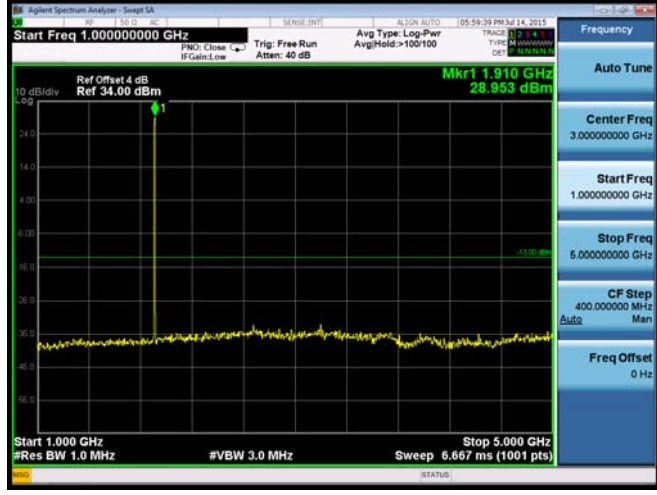


30MHz-1GHz	
1GHz-5GHz	
5GHz-10GHz	




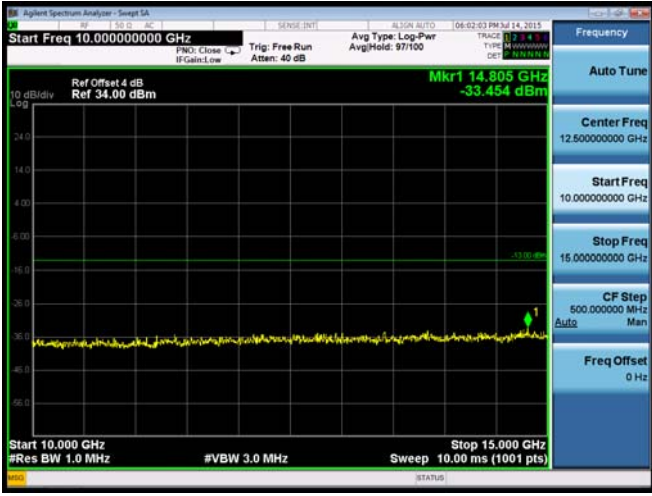
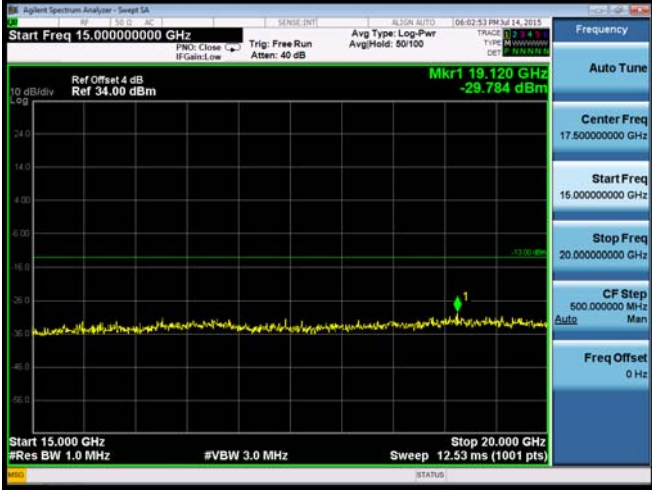
10GHz-15GHz	
15GHz-20GHz	
Mode 2: GPRS 1900 Mode(CH810)	
9kHz-15MHz	



15MHz-30MHz	
30MHz-1GHz	
1GHz-5GHz	





5GHz-10GHz	
10GHz-15GHz	
15GHz-20GHz	



## 8 Field Strength of Spurious Radiation Test

### 8.1. Limit

According to 24.238 and 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

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

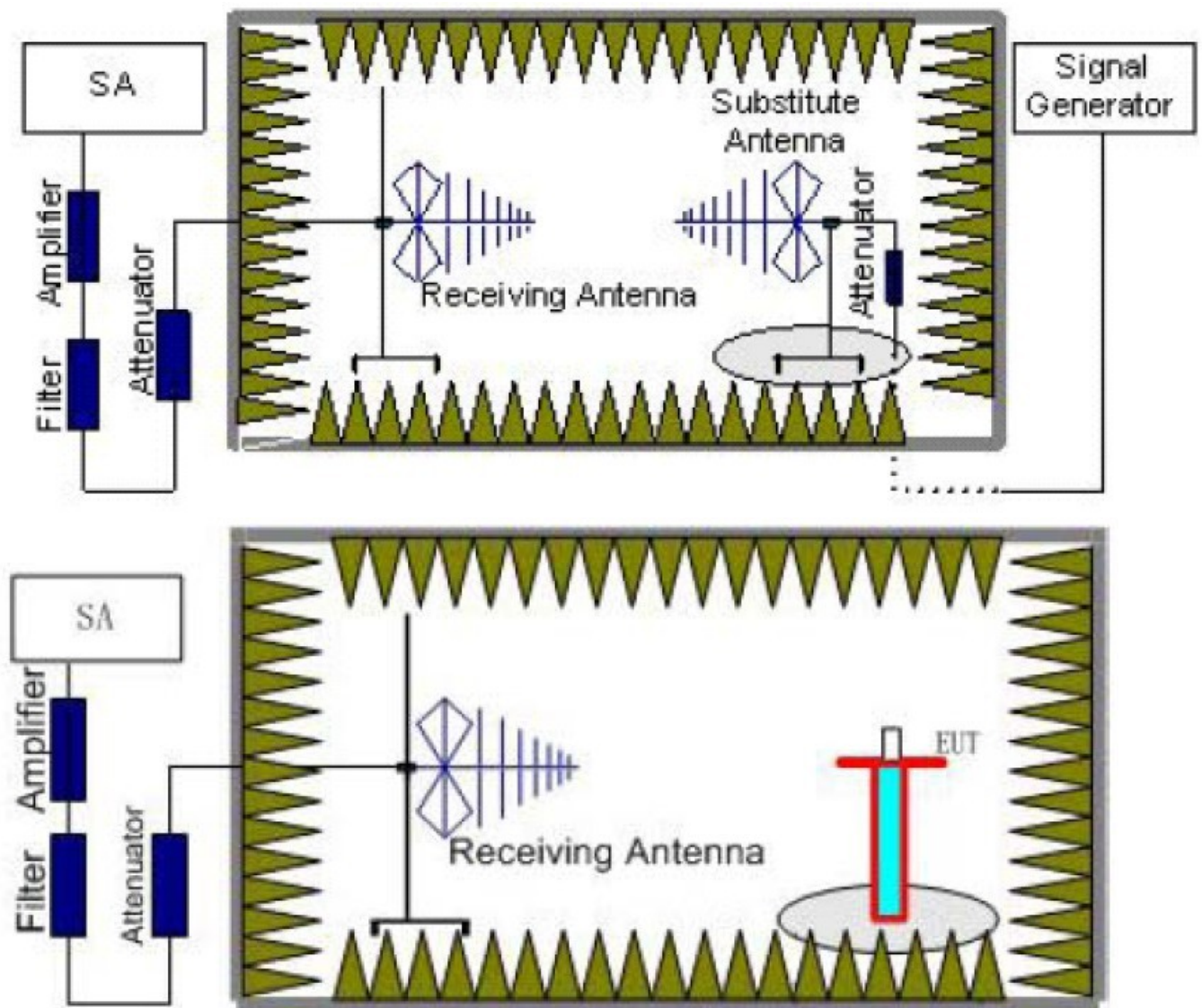
### 8.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/10/2015	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/10/2015	(1)
Signal Generator	Agilent	N5182B	MY53050382	10/12/2014	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/21/2015	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/21/2015	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/16/2015	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/10/2015	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/13/2015	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-321	06/13/2015	(1)
RF Pre-selector	Agilent	N9039A	MY46520255	05/10/2015	(1)
Trilog-Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	SB AC VULB	9168-419	05/16/2015	(1)
RF cable	WOKEN	--	S02-140409-026	07/13/2015	(1)
RF cable	WOKEN	--	S02-140409-027	07/13/2015	(1)
RF cable	WOKEN	--	S02-140409-028	07/13/2015	(1)
RF cable	WOKEN	--	S02-140409-052	07/13/2015	(1)
Test Site	ATL	TE01	888001	08/28/2014	(1)

Remark: <sup>(1)</sup> Calibration period 1 year. <sup>(2)</sup> Calibration period 2 years.

Note: N.C.R. = No Calibration Request. All the RF cables apply to 9 KHz to 40GHz.

## 8.3. Setup







## 8.4. Test Procedure

1. According to the TIA/EIA 603D:2010 test method, The Receiver or Spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set as outlined in Part 24.238 and Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of PCS1900 and GSM850.
2. EUT was placed on a 0.80 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 0.80m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
3. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as ( $P_r$ ).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{Mea}$ ) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded ( $P_r$ ). The power of signal source ( $P_{Mea}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss ( $P_{cl}$ ), the Substitution Antenna Gain ( $G_a$ ) and the Amplifier Gain ( $P_{Ag}$ ) should be recorded after test.

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{Mea} - P_{Ag} - P_{cl} + G_a$$

7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
8. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP - 2.15\text{dBi}$ .
9. In order to make sure test results more clearly, we set frequency range and sweep time for difference frequency range as follows table:

Note: We pre-test the GSM mode and the GPRS mode, and only the worst case is recorded here.



Working Frequency	Subrange (GHz)	RBW	VBW	Sweep time (s)
850MHz	0.009~0.03	10KHz	30KHz	10
	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~10	1 MHz	3 MHz	3
1900MHz	0.009~0.03	10KHz	30KHz	10
	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
	18~20	1 MHz	3 MHz	3

## 8.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is  $\pm 3.072$  dB.



## 8.6. Test Result

Standard:	FCC_P22.24.27_other	Test Distance:	3m				
Test item:	Radiated Emission	Power:	DC 3.7V				
Model Number :	W01	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH				
Mode:	GPRS_850-CH128	Date:	2015/7/27				
Ant.Polar.:	Horizontal	Test By:	Ricky				
Description: CH128							
No.	Frequency	SG Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	3940.000	-73.55	16.84	-56.71	-13.00	-43.71	peak

Standard:	FCC_P22.24.27_other	Test Distance:	3m				
Test item:	Radiated Emission	Power:	DC 3.7V				
Model Number:	W01	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH				
Mode:	GPRS_850-CH128	Date:	2015/7/27				
Ant.Polar.:	Vertical	Test By:	Ricky				
Description: CH128							
No.	Frequency	SG Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	3556.000	-73.55	16.29	-57.26	-13.00	-44.26	peak

Standard:	FCC_P22.24.27_other	Test Distance:	3m				
Test item:	Radiated Emission	Power:	DC 3.7V				
Model Number:	W01	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH				
Mode:	GPRS_850-CH190	Date:	2015/7/27				
Ant.Polar.:	Horizontal	Test By:	Ricky				
Description: CH190							
No.	Frequency	SG Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	3964.000	-74.50	16.87	-57.63	-13.00	-44.63	peak



Standard:	FCC_P22.24.27_other	Test Distance:	3m				
Test item:	Radiated Emission	Power:	DC 3.7V				
Model Number:	W01	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	GPRS_850-CH190	Date:	2015/7/27				
Ant.Polar.:	Vertical	Test By:	Ricky				
Description: CH190							
No.	Frequency	SG Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	4276.000	-75.88	17.88	-58.00	-13.00	-45.00	peak

Standard:	FCC_P22.24.27_other	Test Distance:	3m				
Test item:	Radiated Emission	Power:	DC 3.7V				
Model Number:	W01	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	GPRS_850-CH251	Date:	2015/7/27				
Ant.Polar.:	Horizontal	Test By:	Ricky				
Description: CH251							
No.	Frequency	SG Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	3940.000	-73.67	16.84	-56.83	-13.00	-43.83	peak

Standard:	FCC_P22.24.27_other	Test Distance:	3m				
Test item:	Radiated Emission	Power:	DC 3.7V				
Model Number:	W01	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	GPRS_850-CH251	Date:	2015/7/27				
Ant.Polar.:	Vertical	Test By:	Ricky				
Description: CH251							
No.	Frequency	SG Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	3952.000	-75.78	16.87	-58.91	-13.00	-45.91	peak



Standard:	FCC_P22.24.27_other	Test Distance:	3m				
Test item:	Radiated Emission	Power:	DC 3.7V				
Model Number:	W01	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	GPRS_1900-CH512	Date:	2015/7/27				
Ant.Polar.:	Horizontal	Test By:	Ricky				
Description: CH512							
No.	Frequency	SG Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	3700.400	-48.36	16.50	-31.86	-13.00	-18.86	peak

Standard:	FCC_P22.24.27_other	Test Distance:	3m				
Test item:	Radiated Emission	Power:	DC 3.7V				
Model Number:	W01	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	GPRS_1900-CH512	Date:	2015/7/27				
Ant.Polar.:	Vertical	Test By:	Ricky				
Description: CH512							
No.	Frequency	SG Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	3700.400	-42.17	16.50	-25.67	-13.00	-12.67	peak

Standard:	FCC_P22.24.27_other	Test Distance:	3m				
Test item:	Radiated Emission	Power:	DC 3.7V				
Model Number:	W01	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	GPRS_1900-CH661	Date:	2015/7/27				
Ant.Polar.:	Horizontal	Test By:	Ricky				
Description: CH661							
No.	Frequency	SG Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	3760.000	-51.51	16.60	-34.91	-13.00	-21.91	peak



Standard:	FCC_P22.24.27_other	Test Distance:	3m				
Test item:	Radiated Emission	Power:	DC 3.7V				
Model Number:	W01	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	GPRS_1900-CH661	Date:	2015/7/27				
Ant.Polar.:	Vertical	Test By:	Ricky				
Description: CH661							
No.	Frequency	SG Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	3760.000	-41.23	16.60	-24.63	-13.00	-11.63	peak

Standard:	FCC_P22.24.27_other	Test Distance:	3m				
Test item:	Radiated Emission	Power:	DC 3.7V				
Model Number:	W01	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	GPRS_1900-CH810	Date:	2015/7/27				
Ant.Polar.:	Horizontal	Test By:	Ricky				
Description: CH810							
No.	Frequency	SG Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	3819.600	-52.03	16.67	-35.36	-13.00	-22.36	peak

Standard:	FCC_P22.24.27_other	Test Distance:	3m				
Test item:	Radiated Emission	Power:	DC 3.7V				
Model Number:	W01	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	GPRS_1900-CH810	Date:	2015/7/27				
Ant.Polar.:	Vertical	Test By:	Ricky				
Description: CH810							
No.	Frequency	SG Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	Factor(dB)	(dBm)	(dBm)	(dB)	
1	3819.600	-41.63	16.67	-24.96	-13.00	-11.96	peak

Mark:the correct factor=antenna factor+cable loss

## 9 Frequency Stability (Temperature & Voltage Variation) Test

### 9.1. Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

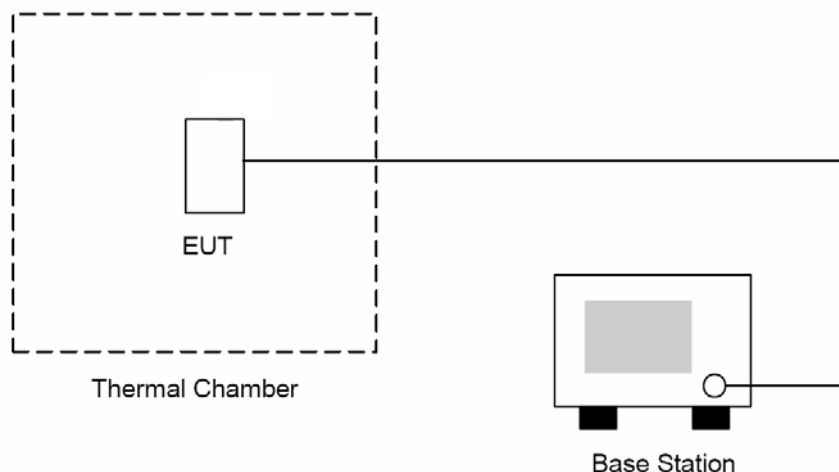
### 9.2. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Universal Radio Communication Tester	R & S	CMU200	109369	08/07/2014	(1)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	08/07/2014	(1)
RF cable	WOKEN	--	S02-140428-045	07/13/2015	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: <sup>(1)</sup> Calibration period 1 year. <sup>(2)</sup> Calibration period 2 years.

Note: N.C.R. = No Calibration Request. All the RF cables apply to 9 KHz to 40GHz.

### 9.3. Setup





## 9.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to  $-30^{\circ}\text{C}$  and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The EUT was placed in a temperature chamber at  $25 \pm 5^{\circ}\text{C}$  and connected as the following section.
5. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
6. The temperature tests were performed for the worst case.
7. Test data was recorded.

Note: We pre-test the GSM mode and the GPRS mode, and only the worst case is recorded here.

## 9.5. Uncertainty

The measurement uncertainty is defined as for Frequency Stability (Temperature Variation) measurement is  $\pm 10\text{Hz}$ .





## 9.6. Test Result

Model Number	W01					
Test Item	Frequency Stability (Temperature & Voltage Variation)					
Test Mode	Mode 1					
Date of Test	07/15/2015				Test Site	TE05
Level	Voltage [DC]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
Normal	3.7	-30	18.72	0.022378	±2.5	Pass
Normal	3.7	-20	-17.56	-0.02098	±2.5	Pass
Normal	3.7	-10	15.78	0.018859	±2.5	Pass
Normal	3.7	0	7.76	0.009278	±2.5	Pass
Normal	3.7	10	-4.43	-0.00529	±2.5	Pass
High	4.2	20	-12.76	-0.01525	±2.5	Pass
Normal	3.7	20	13.71	0.016393	±2.5	Pass
Low	3.3	20	-13.74	-0.01642	±2.5	Pass
Normal	3.7	30	-16.64	-0.01989	±2.5	Pass
Normal	3.7	40	14.53	0.017372	±2.5	Pass
Normal	3.7	50	-13.76	-0.01644	±2.5	Pass

Model Number	W01					
Test Item	Frequency Stability (Temperature & Voltage Variation)					
Test Mode	Mode 2					
Date of Test	07/15/2015				Test Site	TE05
Level	Voltage [DC]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
Normal	3.7	-30	-14.46	-0.00769	±2.5	Pass
Normal	3.7	-20	-16.86	-0.00897	±2.5	Pass
Normal	3.7	-10	21.72	0.011551	±2.5	Pass
Normal	3.7	0	-18.62	-0.0099	±2.5	Pass
Normal	3.7	10	-16.27	-0.00865	±2.5	Pass
Power full point	4.2	20	-27.25	-0.01449	±2.5	Pass
Normal	3.7	20	-23.46	-0.01248	±2.5	Pass
Power cut-off point	3.3	20	14.16	0.007533	±2.5	Pass
Normal	3.7	30	19.04	0.010126	±2.5	Pass
Normal	3.7	40	18.60	0.009891	±2.5	Pass
Normal	3.7	50	19.45	0.010347	±2.5	Pass

Note: Nominal voltage: 3.7V, voltage range is from 3.3V to 4.2V

-----The End-----