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#### 9. SPURIOUS EMISSION

#### 9.1 CONDUCTED SPURIOUS EMISSION

#### 9.1.1 MEASUREMENT METHOD

The following steps outline the procedure used to measure the conducted emissions from the EUT. 1. The level of the carrier and the various conducted spurious and harmonic frequency is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the approximate frequencies. All data rates were investigated to determine the worst case configuration.

Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment of PCS1900 band, this equates to a frequency range of 30 MHz to 19.1 GHz, data taken from 30 MHz to 20 GHz. For GSM 850, data taken from 30 MHz to 9 GHz.
Determine EUT transmit frequencies: the following typical channels were chosen to conducted emissions testing.



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	٦	Typical Channels	for testing of C	GSM 850	
	Channel			Frequency (MHz	)
Babalcon.	128	CO M		824.2	
A.C.	190			836.6	F ICompany
	251	Francional Complete	The The Compliant	848.8	C Presenter
A Standard	Soc State	C As allon o	(R) A Contraction of the	The station	

CIU"					
		Typical Channels	s for testing of	PCS 1900	
	Channel			Frequency (MH	lz)
	512	THE THE	plience C T	1850.2	SC
C The salor of	661	Contraction of Close	CC M	1880.0	
C C	810	GO		1909.8	No. 10
			1117-	The Compliant	The Control

т	ypical Channels f	or testing of UN	ITS band II		
Channel			Frequency (	MHz)	
9663			1852.6	K Compliance	The The Compliance
9800	下下	The second	1880	3101.	Altestation of
9937	C and a Globa	C Allestation of Con	1907.4	S	

sting of UMTS band V
Frequency (MHz)
826.6
836.4
846.4



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#### 9.1.2 PROVISIONS APPLICABLE

On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.





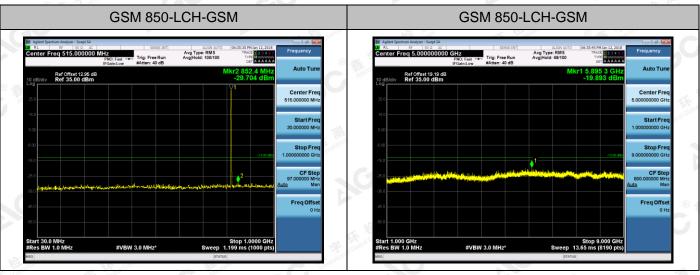
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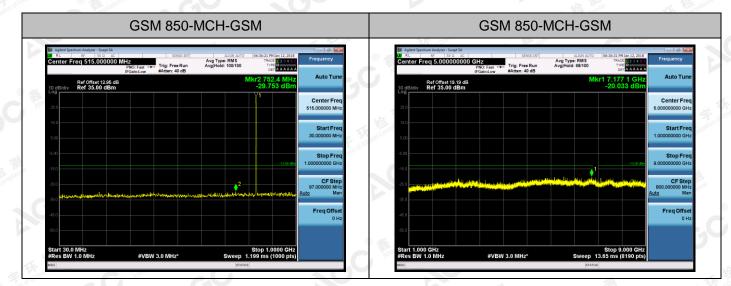
#### 9.1.3 MEASUREMENT RESULT

#### Test Results

#### Test Band=GSM850/GSM1900

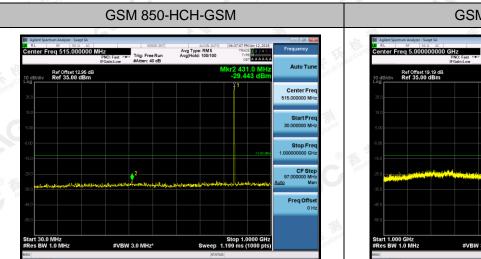
#### Test Mode=GSM



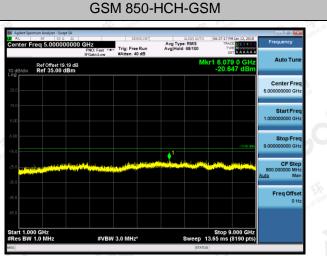


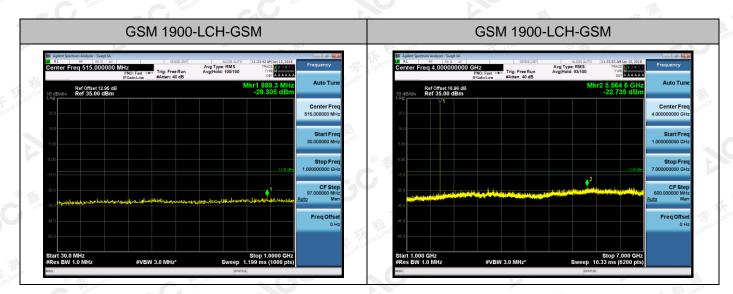


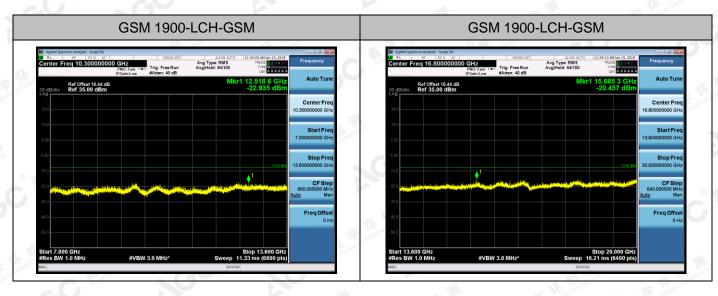
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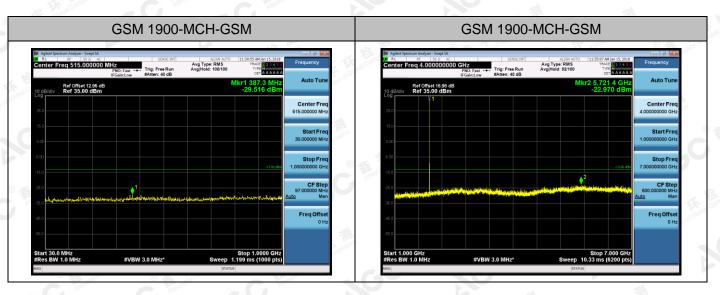


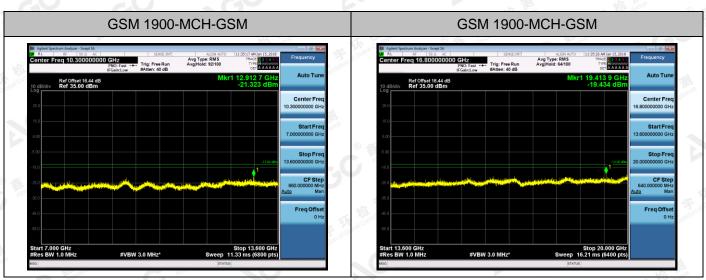


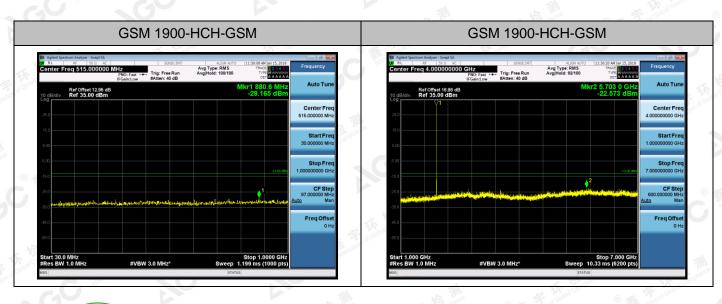


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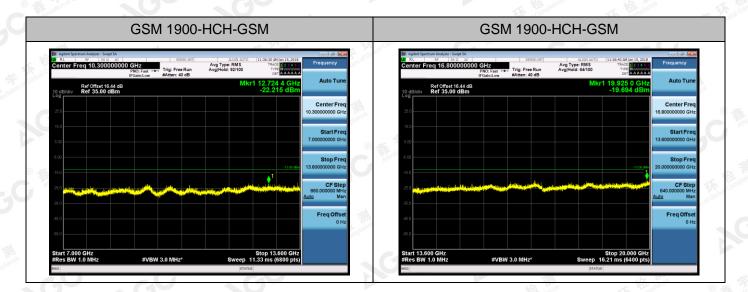








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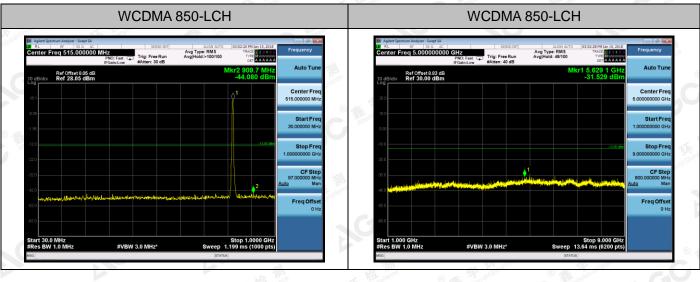


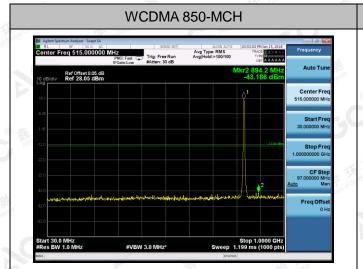


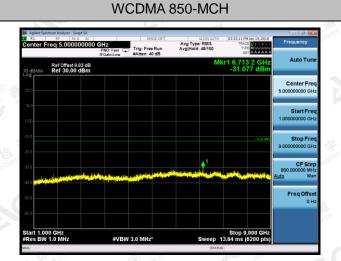
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#### Test Band=WCDMA850 /WCDMA1900

#### Test Mode=UMTS

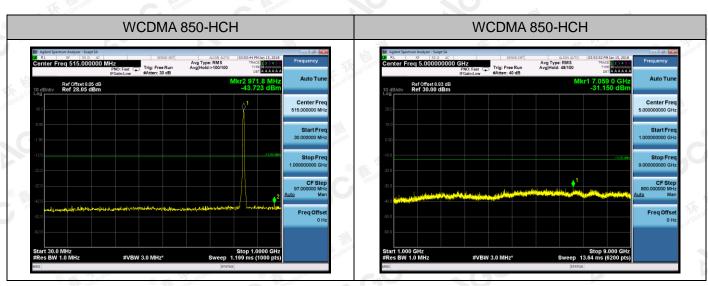


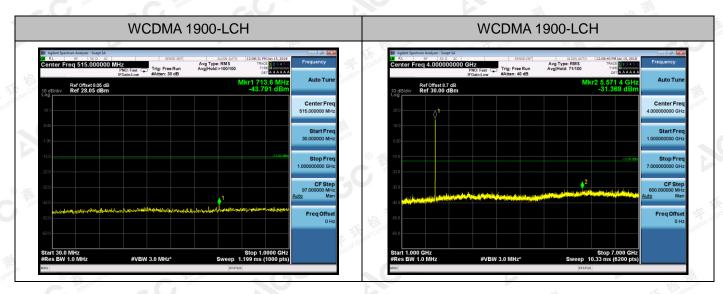


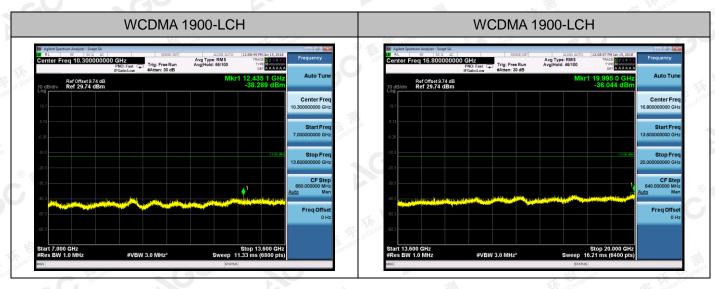




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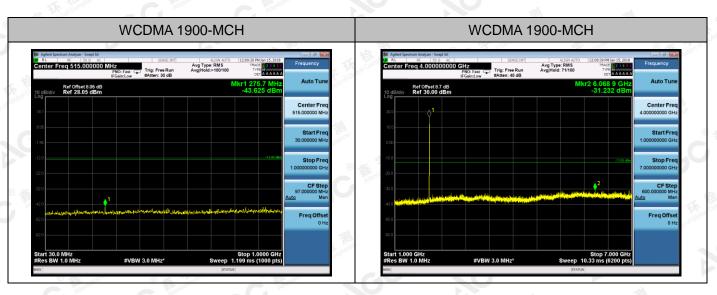
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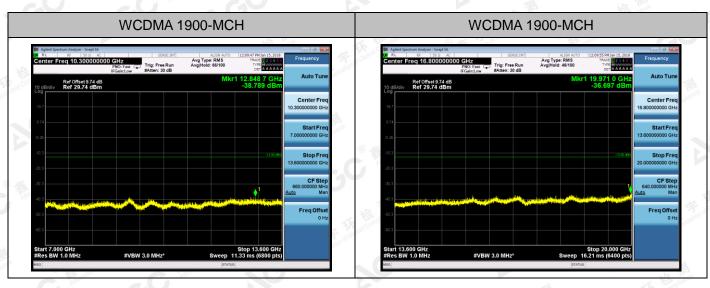
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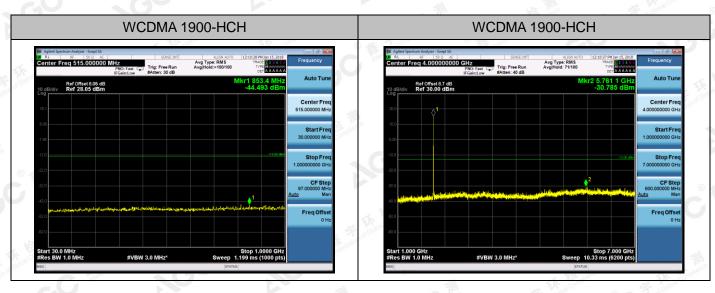
> Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bacan District, Shenzhen, Guangdong China

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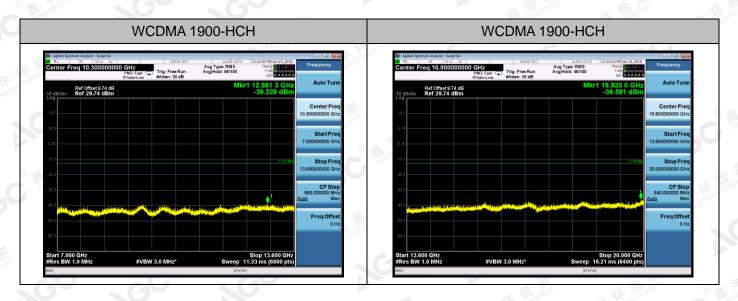


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- Note: 1. Below 30MHZ no Spurious found and Above is the worst mode data.
  - 2. As no emission found in standby or receive mode, no recording in this report.



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#### 9.2 RADIATED SPURIOUS EMISSION

#### 9.2.1 MEASUREMENT METHOD

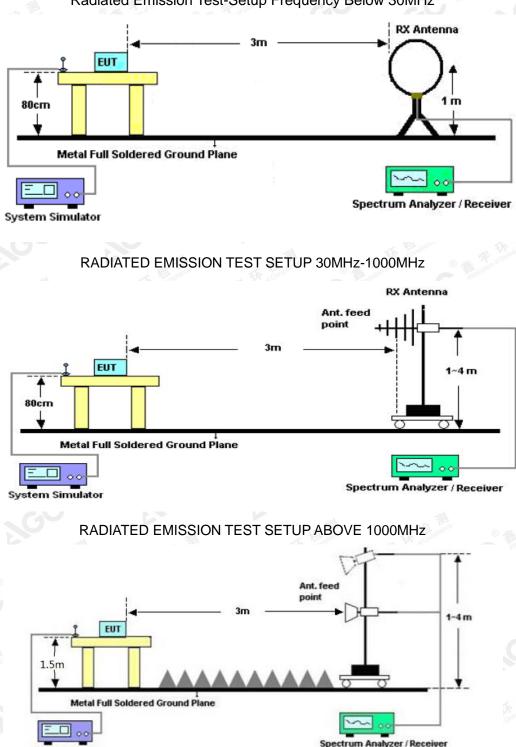
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.



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#### 9.2.2 TEST SETUP



Radiated Emission Test-Setup Frequency Below 30MHz

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System Simulator

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#### 9.2.3 PROVISIONS APPLICABLE

(a) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(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. **Note:** only result the worst condition of each test mode:



#### 9.2.4 MEASUREMENT RESULT

GSM 850:

The Worst Test Results for Channel 251/848.8 MHz									
Frequency	Emission Level	Limits	Margin	Comment					
(MHz)	(dBµV/m)	(dBµV/m)	(dB)						
1697.66	-49.43	-13.00	-36.43	Horizontal					
3395.27	-34.75	-13.00	-21.75	Horizontal					
6790.46	-28.05	-13.00	-15.05	Horizontal					
1697.63	-48.61	-13.00	-35.61	Vertical					
3395.18	-36.34	-13.00	-23.34	Vertical					
6790.42	-27.51	-13.00	-14.51	Vertical					
PCS 1900:		10.00		Vertical					

The Worst Test Results for Channel 810/1909.8MHz									
Frequency	Emission Level	Limits	Margin	Comment					
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	- Comment					
1847.65	-48.85	-13.00	-35.85	Horizontal					
3819.68	-37.98	-13.00	-24.98	Horizontal					
7639.47	-25.36	-13.00	-12.36	Horizontal					
1887.51	-48.11	-13.00	-35.11	Vertical					
3819.63	-36.85	-13.00	-23.85	Vertical					
7639.51	-26.24	-13.00	-13.24	Vertical					

#### HSPA band II:

	The Worst Test Results for Channel 9938/1907.4MHz										
Frequency	Emission Level	Limits	Margin	Comment							
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Comment							
1879.54	-48.87	-13.00	-35.87	Horizontal							
3814.86	-38.15	-13.00	-25.15	Horizontal							
7629.65	-25.71	-13.00	-12.71	Horizontal							
1881.47	-49.63	-13.00	-36.63	Vertical							
3814.87	-38.04	-13.00	-25.04	Vertical							
7629.69	-26.81	-13.00	-13.81	Vertical							



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	The Worst Test Results for Channel 4458/846.4MHz										
Frequency	Emission Level	Limits	Margin	Commont							
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	- Comment							
1692.84	-47.02	-13.00	-34.02	Horizontal							
3385.67	-34.27	-13.00	-21.27	Horizontal							
6771.22	-26.83	-13.00	-13.83	Horizontal							
1692.79	-47.86	-13.00	-34.86	Vertical							
3385.57	-35.92	-13.00	-22.92	Vertical							
6771.58	-26.90	-13.00	-13.90	Vertical							

#### **HSPA** band V:

### RESULT: PASS

Note:

- 1. Margin = Emission Leve Limit
- 2. Below 30MHZ no Spurious found and Above is the worst mode data.



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#### **10. FREQUENCY STABILITY**

#### 10.1 MEASUREMENT METHOD

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

1 Measure the carrier frequency at room temperature.

2 Subject the EUT to overnight soak at  $-10^{\circ}$ C.

3 With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on channel 661 for PCS 1900 band, channel 190 for GSM 850 band, channel 9400 for UMTS band II and channel 4175 for UMTS band V measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.

4 Repeat the above measurements at  $10^{\circ}$  increments from  $-10^{\circ}$  to  $+55^{\circ}$ . Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.

5 Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.

6 Subject the EUT to overnight soak at +55  $^{\circ}$ C.

7 With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.

8 Repeat the above measurements at  $10^{\circ}$  increments from +55  $^{\circ}$  to -10  $^{\circ}$ . Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.

9 At all temperature levels hold the temperature to  $\pm -0.5^{\circ}$  during the measurement procedure.



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#### **10.2 PROVISIONS APPLICABLE**

#### 10.2.1 For Hand carried battery powered equipment

According to the ANSI/TIA-603-D-2010, the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.4VDC and 4.2VDC, with a nominal voltage of 3.7VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

According to the ANSI/TIA-603-D-2010, the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment, the normal environment temperature is 20°C.



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#### **10.3 MEASUREMENT RESULT**

Test Results

#### Frequency Error vs. Voltage:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	\/andiat
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	Verdict
0	-111	line	TN	VL	-3.29	-0.00	±2.5	PASS
	plance	LCH	TN	VN	-2.39	-0.00	±2.5	PASS
	C The station	of Global	TN	VH	-2.71	-0.00	±2.5	PASS
	C m		TN	VL	-1.55	-0.00	±2.5	PASS
GSM850	GSM	MCH	TN	VN	-0.26	-0.00	±2.5	PASS
® <i>15</i> 4	Finor Global Comp	a F toto	TN 💿 🚛	VH	-2.65	-0.00	±2.5	PASS
cC *	AG	Allestatio	TN	VL	-1.03	-0.00	±2.5	PASS
		НСН	TN	VN	-0.77	-0.00	±2.5	PASS
		<u>au</u>	TN	VH 🚽	-2.07	-0.00	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vordict
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	Verdict
		The the stars	TN	VL	-2.97	-0.00	±2.5	PASS
	® 🐔	LCH	TN	VN	-4.00	-0.00	±2.5	PASS
	C M		TN	VH	-4.91	-0.00	±2.5	PASS
0014			TN	VL 🔬	-4.33	-0.00	±2.5	PASS
GSM	GSM	MCH	TN	VN	-5.29	-0.00	±2.5	PASS
1900	ation of Global	C Attestation of	TN	VH	-5.04	-0.00	±2.5	PASS
			TN	VL	-12.01	-0.01	±2.5	PASS
		HCH	TN	VN	-13.95	-0.01	±2.5	PASS
		St Global Complian	TN	VH	-14.53	-0.01	±2.5	PASS



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#### Frequency Error vs. Temperature:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Volt.	Temp.	(Hz)	(ppm)	(ppm)	
lobal Conin	F Global Comple	-C	VN	-10	-0.39	-0.00	±2.5	PASS
- C	touc		VN	0	-0.58	-0.00	±2.5	PASS
G	litte:	-110-	VN	10	-0.45	-0.00	±2.5	PASS
GSM850	GSM	LCH	VN	20	-0.97	-0.00	±2.5	PASS
Attestation of Glov	C Thestand	of Globa	VN	30	-2.20	-0.00	±2.5	PASS
<u></u>			VN	40	-0.52	-0.00	±2.5	PASS
	臣书	00	VN	50	-0.13	-0.00	±2.5	PASS
8 🐔	Find Global Co.	8 Francisco	<sup>Collin</sup> VN ©	-10	-1.94	-0.00	±2.5	PASS
CC The		Allestatio	VN	0	-2.13	-0.00	±2.5	PASS
	NO		VN	10	-3.62	-0.00	±2.5	PASS
GSM850	GSM	MCH	VN	20	-1.49	-0.00	±2.5	PASS
100 mailance	The stoparcon	ience ©	VN	30	-1.16	-0.00	±2.5	PASS
· · · · · · · · · · · · · · · · · · ·	estation of C	S	VN	40	-1.61	-0.00	±2.5	PASS
GO			VN	50	-3.55	-0.00	±2.5	PASS
あ	A. Co	The the Fill	VN	-10	-1.94	-0.00	±2.5	PASS
F of Global Comp	© 🐔	tion of Global Co	VN	0	-1.55	-0.00	±2.5	PASS
Attestation	C ANCE		VN	10	-2.58	-0.00	±2.5	PASS
GSM850	GSM	нсн	VN	20	-2.13	-0.00	±2.5	PASS
	The Compliant	i i i	VN	30	-2.58	-0.00	±2.5	PASS
C ALLESS	ion of Glou	B Allestation o	VN	40	-2.39	-0.00	±2.5	PASS
GU	C		VN	50	-2.26	-0.00	±2.5	PASS



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Test Band	Test Mode	Test Channel	Test Volt.(V)	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
W. The		; ©	VN	-10	-3.94	-0.00	±2.5	PASS
	F Global Compilan	c.C	VN	0	-5.36	-0.00	±2.5	PASS
0014	tone		VN	10	-2.26	-0.00	±2.5	PASS
GSM	GSM	LCH	VN	20	-6.72	-0.00	±2.5	PASS
1900	pliance	The the manance	VN	30	-3.81	-0.00	±2.5	PASS
	C B F	of Globe	<b>VN</b>	40	-5.75	-0.00	±2.5	PASS
	0	E E	VN	50	-4.46	-0.00	±2.5	PASS
	杨节	100	VN	-10	-4.65	-0.00	±2.5	PASS
	Find Global Coll.	C F To of Got	VN ©	0	-6.91	-0.00	±2.5	PASS
COM		SM МСН	VN	10	-7.68	-0.00	±2.5	PASS
GSM 1900	GSM		VN	20	-7.62	-0.00	±2.5	PASS
1900			VN	30	-7.88	-0.00	±2.5	PASS
	The the	lance ©	VN	40	-7.88	-0.00	±2.5	PASS
	estation of C	S	VN	50	-8.01	-0.00	±2.5	PASS
G			VN	-10	-12.40	-0.01	±2.5	PASS
	ance.	The the ampliance	VN	0	-4.58	-0.00	±2.5	PASS
GSM 1900 GSM	8 🐔	SM HCH	VN	10	-2.84	-0.00	±2.5	PASS
	GSM		VN	20	-4.84	-0.00	±2.5	PASS
	-11		VN	30	-12.40	-0.01	±2.5	PASS
	The tal complian		VN	40	-10.78	-0.01	±2.5	PASS
C Thest lon of G	ton of Glov	C Attestation O	VN	50	-13.82	-0.01	±2.5	PASS

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#### 环 测 藎 宇 检 Attestation of Global Compliance

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#### Frequency Error vs. Voltage:

Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	
Global Compile	CO	TN	VL	-0.15	0.00	±2.5	PASS
	LCH	TN	VN	-0.18	0.00	±2.5	PASS
	10-	ΤN	VH	0.87	0.00	±2.5	PASS
1	Compliance	TN	VL	-3.97	0.00	±2.5	PASS
UMTS	MCH	TN	VNG	-1.83	0.00	±2.5	PASS
		ΤN	VH	1.14	0.00	±2.5	PASS
T the marce	· H	TN	VL	0.47	0.00	±2.5	PASS
<b>3</b> Conv	НСН	TN	VN	0.69	0.00	±2.5	PASS
-C	Attestation	TN	VH	2.87	0.00	±2.5	PASS
	Mode	Mode Channel LCH UMTS MCH	ModeChannelTemp.LCHTNTNTNMCHTNTNTNMCHTNTNTNHCHTN	Mode     Channel     Temp.     Volt.(V)       Image: Ample of the symbol of th	$\begin{array}{c c c c c c c } \hline Mode & Channel & Temp. & Volt.(V) & (Hz) \\ \hline & TN & VL & -0.15 \\ \hline & TN & VN & -0.18 \\ \hline & TN & VH & 0.87 \\ \hline & TN & VH & 0.87 \\ \hline & TN & VL & -3.97 \\ \hline & TN & VL & -3.97 \\ \hline & TN & VN & -1.83 \\ \hline & TN & VH & 1.14 \\ \hline & HCH & TN & VL & 0.47 \\ \hline & TN & VN & 0.69 \\ \hline \end{array}$	$\begin{array}{c c c c c c c c c c } \begin{tabular}{ c c c c c } \hline Mode & Channel & Temp. & Volt.(V) & (Hz) & (ppm) \\ \hline \\ \hline \\ Mode & Channel & Temp. & Volt.(V) & (Hz) & (ppm) \\ \hline \\ & TN & VL & -0.15 & 0.00 \\ \hline \\ & TN & VN & -0.18 & 0.00 \\ \hline \\ & TN & VH & 0.87 & 0.00 \\ \hline \\ & TN & VL & -3.97 & 0.00 \\ \hline \\ & TN & VL & -1.83 & 0.00 \\ \hline \\ & TN & VH & 1.14 & 0.00 \\ \hline \\ & HCH & TN & VL & 0.47 & 0.00 \\ \hline \\ & TN & VN & 0.69 & 0.00 \\ \hline \end{array}$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	
C Allestation		G	TN	VL	-1.74	0.00	±2.5	PASS
SO		LCH	ΤN	VN	-4.94	0.00	±2.5	PASS
A THE		the monance	TN	VH	-1.92	0.00	±2.5	PASS
F of Global Complia	C Station of	GlobalCo	TN	VL	0.46	0.00	±2.5	PASS
WCDMA1900	UMTS	МСН	ΤN	VN	2.98	0.00	±2.5	PASS
	1117-		ΤN	VH	5.36	0.00	±2.5	PASS
T	Compliance	The stand	TN	VL	-10.25	-0.01	±2.5	PASS
e anestation of G	ou	НСН	TN	VN	-9.98	-0.01	±2.5	PASS
G	S		ΤN	VH	-2.56	0.00	±2.5	PASS



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#### Frequency Error vs. Temperature:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	) (a nali a t
Band	Mode	Channel	Volt.(V)	Temp.	(Hz)	(ppm)	(ppm)	Verdict
Alopa Com	Global Compu	NGC	VN	-10	4.71	0.01	±2.5	PASS
			VN	0	4.30	0.01	±2.5	PASS
		lin-	VN	10	2.01	0.00	±2.5	PASS
WCDMA850 UMTS	UMTS	LCH	VN	20	0.64	0.00	±2.5	PASS
	oba	VN	30	0.00	0.00	±2.5	PASS	
			VN	40	-1.05	0.00	±2.5	PASS
	相關		VN	50	-0.43	0.00	±2.5	PASS
8 E. 10	of Global CC.	F Stopal	VN	-10	0.08	0.00	±2.5	PASS
GC C	-C	Attestation	VN	0	-1.95	0.00	±2.5	PASS
	0		VN	10	-2.11	0.00	±2.5	PASS
WCDMA850	UMTS	TS MCH	VN	20	-3.98	0.00	±2.5	PASS
	The Compliant		VN	30	-1.30	0.00	±2.5	PASS
GC Maria and Chi	onofo		VN	40	-1.14	0.00	±2.5	PASS
			VN	50	-0.90	0.00	±2.5	PASS
A THE		The Harmonianes	VN	-10	2.79	0.00	±2.5	PASS
WCDMA850 UM	6 5 F	нсн	VN	0	1.14	0.00	±2.5	PASS
	C Mesu		VN	10	-1.56	0.00	±2.5	PASS
	UMTS		VN	20	-5.48	-0.01	±2.5	PASS
	The Compliance	The state	VN	30	-1.53	0.00	±2.5	PASS
	Glope	B Attestation of C	VN C	40	0.96	0.00	±2.5	PASS
GC	S		VN	50	-1.14	0.00	±2.5	PASS



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EN Come		pue	Attes			115-	den .	
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Volt.	Temp.	(Hz)	(ppm)	(ppm)	Verdici
	the state	© 🐔	VN	-10	13.47	0.01	±2.5	PASS
and the second of the second o	Soal Complet	CO M	VN	0	6.87	0.00	±2.5	PASS
			VN	10	7.17	0.00	±2.5	PASS
WCDMA1900	UMTS	LCH	VN	20	3.98	0.00	±2.5	PASS
	T	Compliance	VN	30	-6.70	0.00	±2.5	PASS
CC C	Thestation of Gio	5	VN	40	-3.20	0.00	±2.5	PASS
			VN	50	-8.38	0.00	±2.5	PASS
	the mance	1	VN	-10	4.58	0.00	±2.5	PASS
C Treat	R Slobal Contr	F A Global Com	VN	0	6.30	0.00	±2.5	PASS
	c.C	Attestation	VN	10	8.09	0.00	±2.5	PASS
WCDMA1900	UMTS	МСН	VN	20	7.64	0.00	±2.5	PASS
	and the second sec		VN	30	4.87	0.00	±2.5	PASS
AGC THE	The Compliance	C Alles	VN	40	6.90	0.00	±2.5	PASS
	51 <sup>0</sup>	G	VN	50	7.35	0.00	±2.5	PASS
			VN	-10	-2.37	0.00	±2.5	PASS
		The manance	VN	0	-6.32	0.00	±2.5	PASS
	C The salon of	3 lobal Con	VN	10	-6.06	0.00	±2.5	PASS
WCDMA1900	UMTS	НСН	VN	20	-6.41	0.00	±2.5	PASS
	1117-		VN	30	-8.82	0.00	±2.5	PASS
	Compliance	IF INON	VN	40	-9.89	-0.01	±2.5	PASS
		B Attestation of C	VN	50	-5.71	0.00	±2.5	PASS

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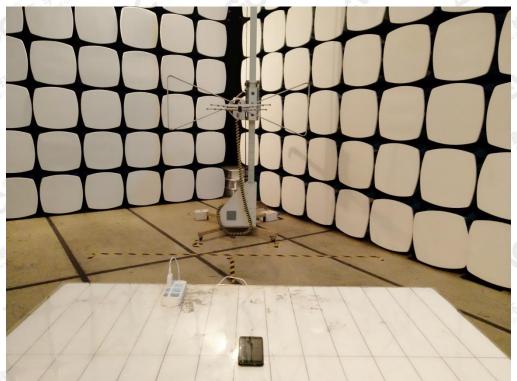
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## PHOTOGRAPHS OF TEST SETUP

CONDUCTED EMISSION



RADIATED SPURIOUS EMISSION







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#### CONDUCTED MEASUREMENTS



#### ----END OF REPORT----

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Attestation of Global Compliance