

Page 31 of 59

## 8. BAND EDGE

#### **8.1 MEASUREMENT METHOD**

- 1. All out of band emissions are measured with an analyzer spectrum connected to the antenna terminal of the EUT while the EUT at its maximum duty cycle, at maximum power, and at the approximate frequencies. All data rates were investigated to determine the worst case configuration
- 2. The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.
- 3. Start and stop frequency were set such that the band edge would be placed in the center of the plot.
- 4. Span was set large enough so as to capture all out of band emissions near the band edge.
- 5. RBW>1% of the emission bandwidth, VBW >=3 x RBW, Detector=RMS, Number of points>=2 x Span/RBW Trace mode=max hold, Sweep time=auto couple, and the trace was allowed to stabilize

# **8.2 PROVISIONS APPLICABLE**

As Specified in FCC rules of 22.917(a) < 24.238(a) and KDB 971168 D1 v03.

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Page 32 of 59

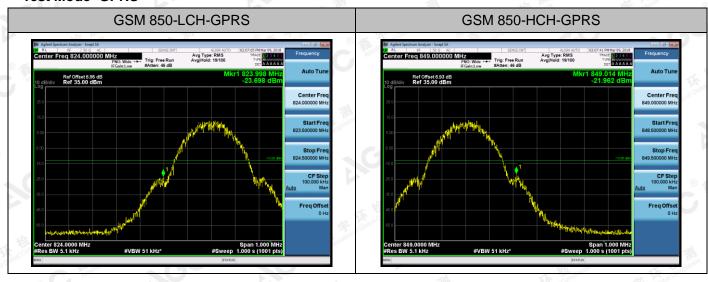
## **8.3 MEASUREMENT RESULT**

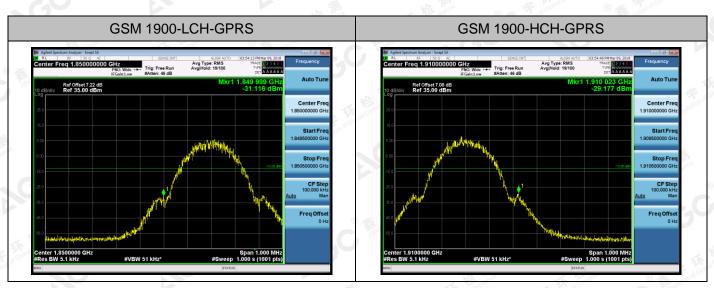
**Test Results** 

For GSM

Test Band=GSM850/GSM1900

Test Mode=GPRS





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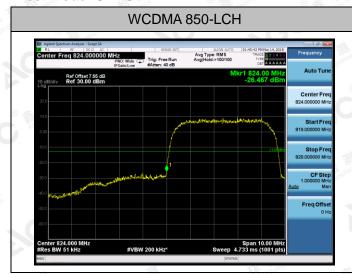


Page 33 of 59

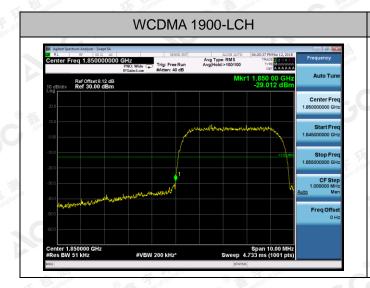
#### For WCDMA

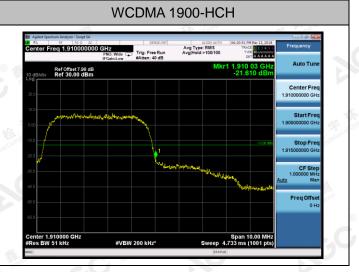
#### Test Band=WCDMA850/WCDMA1900

#### Test Mode=UMTS









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Page 34 of 59

## 9. SPURIOUS EMISSION

#### 9.1 CONDUCTED SPURIOUS EMISSION

#### 9.1.1MEASUREMENT 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.
- 2. 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 GSM850, data taken from 30 MHz to 9 GHz.
- 3. Determine EUT transmit frequencies: the following typical channels were chosen to conducted emissions testing.

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Report No.: AGC00607171204FE02 Page 35 of 59

	Ту	pical Channels f	or testing of GS	SM 850	
	Channel			Frequency (MHz)	
Control of	128	CC Alles		824.2	10000000000000000000000000000000000000
2C 3	190		:100	836.6	F K Global Compile
	251	The Comp	The Compliance	848.8	C Allestation CC

		Typical Channel	s for testing of F	PCS 1900		
	Channe	l		Frequency (MHz	<u>z</u> )	
	512	· 拉到1000000000000000000000000000000000000	Manual Company	1850.2	COO	
(8) ## Jahon	661	of Clopal Co.	60	1880.0		
60	810	- GO		1909.8	THE THE	@ <i>A</i>

Typical Channels for testing of UMTS band II									
	Channel		Frequency (MHz)						
A State of the latter of the l	9262	10		1852.4	Compliance	The Hold Compliance			
10	9400	下 格····	· 不是	1880	(8)	Altestation of			
The spinors	9538	© Martin of Clobs	(S) Attestation of Control	1907.6	100				

Typical Channels	for testing of UMTS band V
Channel	Frequency (MHz)
4132	826.4
4182	836.4
4233	846.6

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Page 36 of 59

## 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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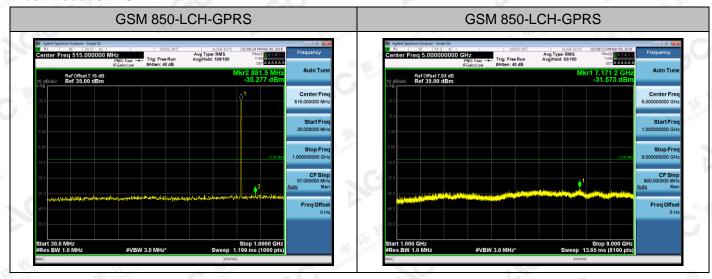
Page 37 of 59

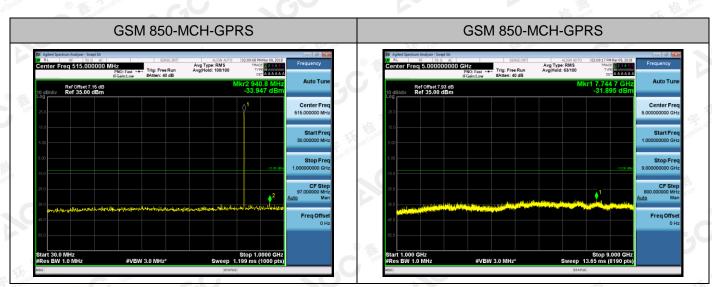
#### 9.1.3MEASUREMENT RESULT

**Test Results** 

Test Band=GSM850/GSM1900

Test Mode=GPRS

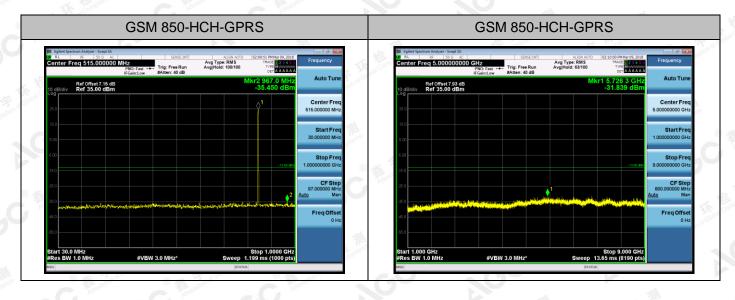


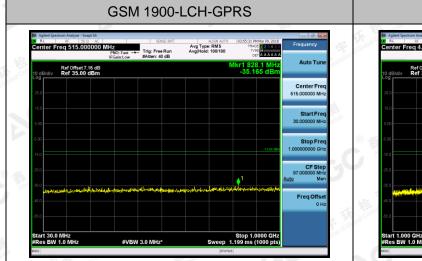


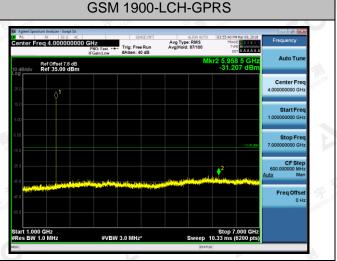
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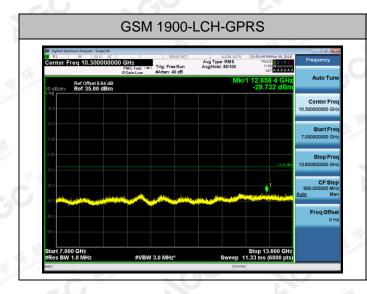


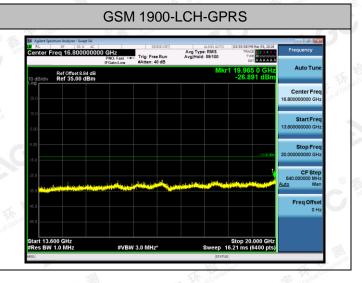
Page 38 of 59







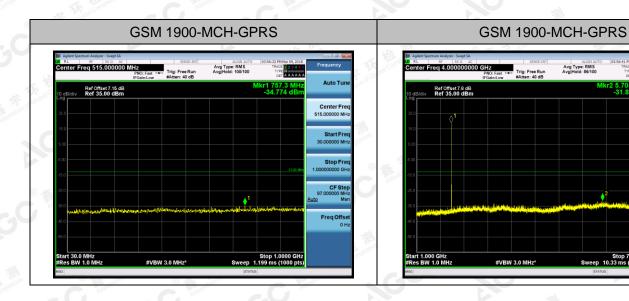


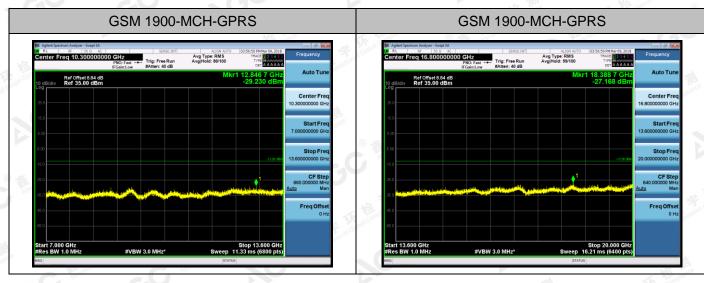


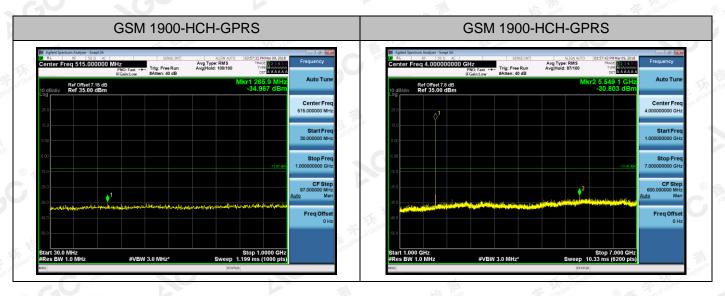
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Page 39 of 59



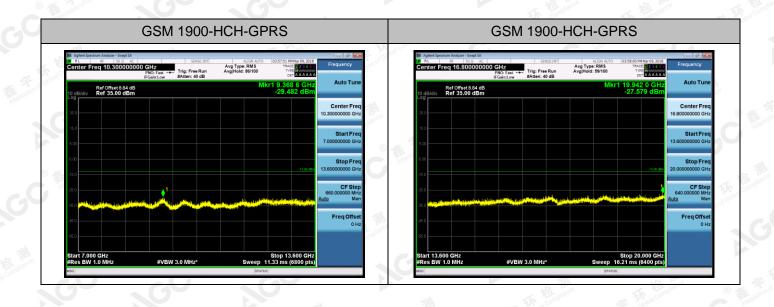




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Page 40 of 59



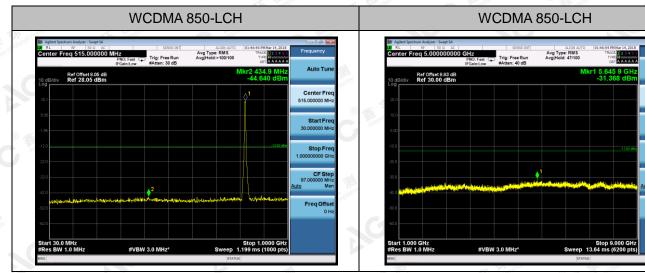
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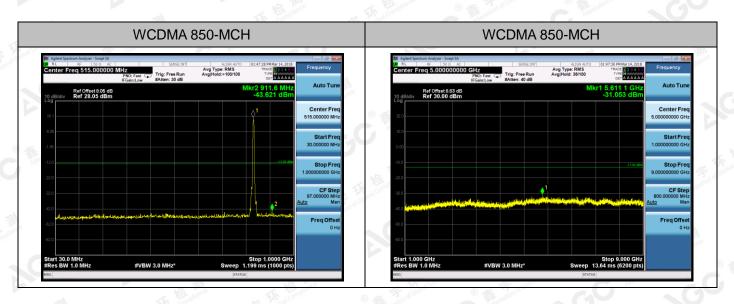


Page 41 of 59

# Test Band=WCDMA850/WCDMA1900

#### Test Mode=UMTS

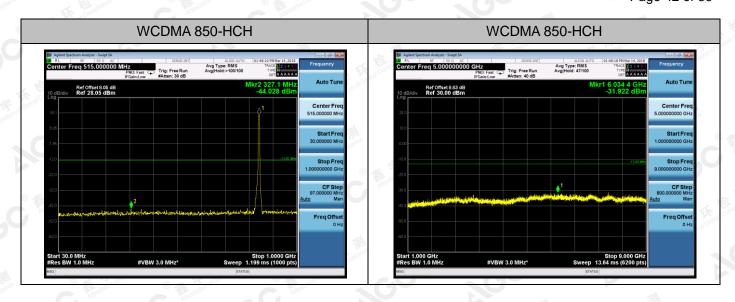


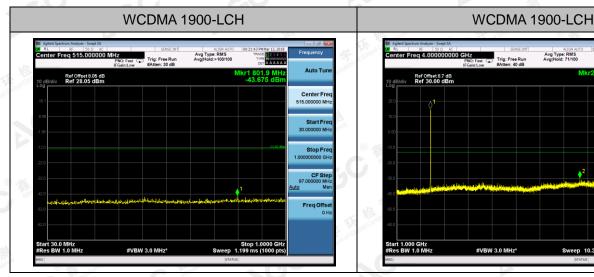


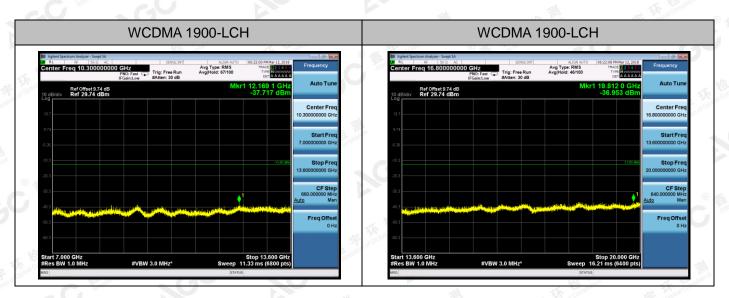
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Report No.: AGC00607171204FE02 Page 42 of 59



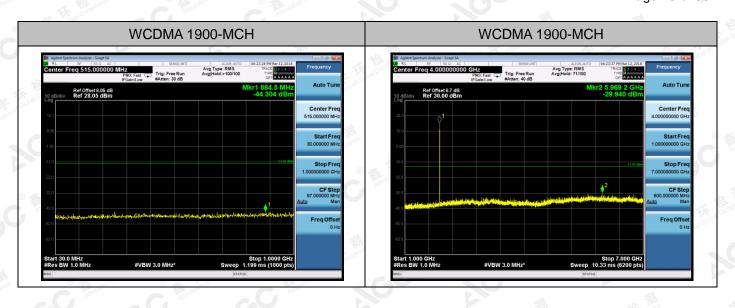


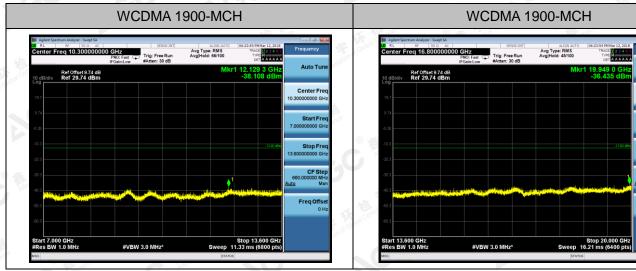


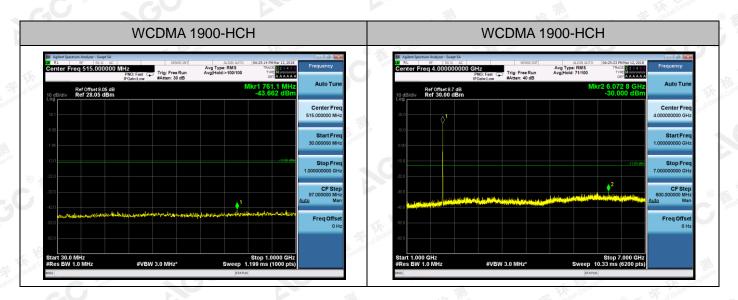
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Page 43 of 59



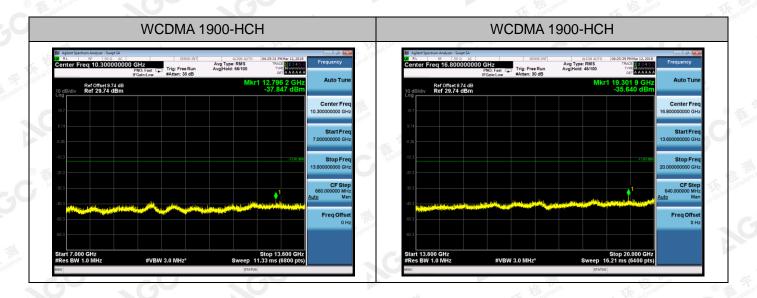




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Page 44 of 59



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.



Page 45 of 59

# 9.2 RADIATED SPURIOUS EMISSION

#### 9.2.1MEASUREMENT METHOD

- 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.
- 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.
- 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.

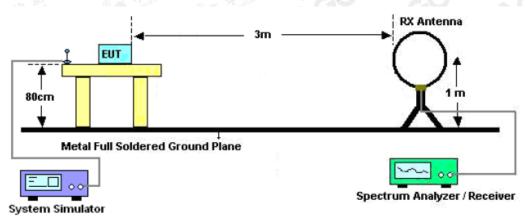
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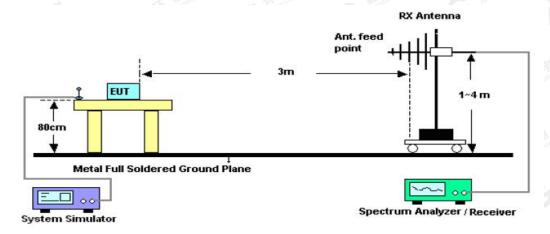
Page 46 of 59

#### 9.2.2 TEST SETUP

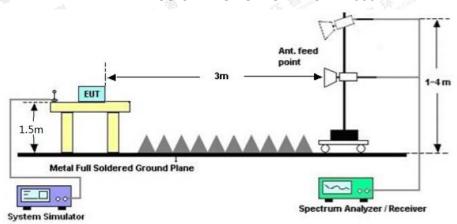
## Radiated Emission Test-Setup Frequency Below 30MHz



## RADIATED EMISSION TEST SETUP 30MHz-1000MHz



# RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Page 47 of 59

## 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:

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Page 48 of 59

# 9.2.4 MEASUREMENT RESULT

## **GSM 850:**

	The Worst Test Results for Channel 251/848.8 MHz(1GHz-9GHz)								
Frequency	Emission Level	Limits	Margin	Commont					
(MHz)	(dBm)	(dBm)	(dB)	Comment					
1697.66	-48.82	-13.00	-35.82	Horizontal					
2395.27	-34.47	-13.00	-21.47	Horizontal					
3790.46	-27.06	-13.00	-14.06	Horizontal					
1697.63	-48.59	-13.00	-35.59	Vertical					
2395.18	-35.06	-13.00	-22.06	Vertical					
3790.42	-26.83	-13.00	-13.83	Vertical					

# PCS 1900:

The Worst Test Results for Channel 810/1909.8MHz(1GHz-20GHz)								
Frequency	Emission Level	Limits	Margin	Comment				
(MHz)	(dBm)	(dBm)	(dB)	Confinent				
1847.65	-49.16	-13.00	-36.16	Horizontal				
3819.68	-38.84	-13.00	-25.84	Horizontal				
7639.47	-26.23	-13.00	-13.23	Horizontal				
1887.51	-49.91	-13.00	-36.91	Vertical				
3819.63	-37.85	-13.00	-24.85	Vertical				
7639.51	-26.43	-13.00	-13.43	Vertical				
Vila				- N. W. W. W.				

## **HSPA** band II:

	The Worst Test Results f	or Channel 9538/19	907.6MHz(1GHz-20GH	lz)
Frequency	Emission Level	Limits	Margin	0
(MHz)	(dBm)	(dBm)	(dB)	Comment
1879.54	-49.75	-13.00	-36.75	Horizontal
3814.86	-39.15	-13.00	-26.15	Horizontal
7629.65	-27.91	-13.00	-14.91	Horizontal
1881.47	-50.76	-13.00	-37.76	Vertical
3814.87	-38.94	-13.00	-25.94	Vertical
7629.69	-27.77	-13.00	-14.77	Vertical

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Page 49 of 59

# **HSPA** band V:

The Worst Test Results for Channel 4233/846.6MHz(1GHz-9GHz)								
Frequency	Emission Level	Limits	Margin	0				
(MHz)	(dBm)	(dBm)	(dB)	Comment				
1692.84	-47.57	-13.00	-34.57	Horizontal				
2385.67	-34.42	-13.00	-21.42	Horizontal				
3771.22	-27.68	-13.00	-14.68	Horizontal				
1692.79	-48.76	-13.00	-35.76	Vertical				
2385.57	-37.22	-13.00	-24.22	Vertical				
3771.58	-27.5	-13.00	-14.5	Vertical				

**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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Page 50 of 59

## 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.

- Measure the carrier frequency at room temperature.
- 2 Subject the EUT to overnight soak at -10℃.
- 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.
- 4 Repeat the above measurements at 10°C increments from -10°C to +55°C. 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℃.
- 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  $10^{\circ}$ C increments from +55 $^{\circ}$ C to -10 $^{\circ}$ C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 9 At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

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Page 51 of 59

#### 10.2 PROVISIONS APPLICABLE

#### 10.2.1 FOR HAND CARRIED BATTERY POWERED EQUIPMENT

According to the ANSI/TIA-603-E-2016, 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 3.0VDC and 4.25VDC, with a nominal voltage of3.7VDC. 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.

#### 10.2.2 FOR EQUIPMENT POWERED BY PRIMARY SUPPLY VOLTAGE

According to the ANSI/TIA-603-E-2016, 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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Page 52 of 59

# **10.3 MEASUREMENT RESULT**

Test Results

Frequency Error vs. Voltage:

rioquorioy		, chage.						
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	Verdiet
O	:700	-771	TN	VL	-0.84	-0.00	±2.5	PASS
环粒	pliance	LCH	TN	VN	-6.33	-0.01	±2.5	PASS
S Allestation of Glov	© A Station	of Globa.	TN	VH	-10.20	-0.01	±2.5	PASS
\ C	<b>O</b> "	F	TN	VL	-8.59	-0.01	±2.5	PASS
GSM850	GPRS	MCH	TN	VN	-7.43	-0.01	±2.5	PASS
® ##	Fin of Global Comm	图 等 引	TN ®	VH	-7.10	-0.01	±2.5	PASS
CC AND	dans.	Allestallo	TN	VL	-6.13	-0.01	±2.5	PASS
		нсн	TN	VN	-9.17	-0.01	±2.5	PASS
			TN	VH _	-8.72	-0.01	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt. (V)	(Hz)	(ppm)	(ppm)	
M/3:	<u>M</u>	T Kingliance	TN	* VL	43.26	0.02	±2.5	PASS
THE OCCUPANT COMP	® ###	LCH	TN	VN	34.68	0.02	±2.5	PASS
Allestation	C Mes		TN	VH	34.16	0.02	±2.5	PASS
DOO			TN	VL 🚮	25.76	0.01	±2.5	PASS
PCS	GPRS	MCH	TN	VN	30.87	0.02	±2.5	PASS
1900	lou of Glops	Ritestation of	TN	VH	27.25	0.01	±2.5	PASS
GC "	S.C		TN	VL	32.41	0.02	±2.5	PASS
		HCH	TN	VN	31.12	0.02	±2.5	PASS
极测	0 4 4	of Global Compile	TN	VH	27.77	0.01	±2.5	PASS

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Page 53 of 59

# Frequency Error vs. Temperature:

THE ST				. 6		FL 'Col.,	The south	
Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Vordist
Band	Mode	Channel	Volt.	Temp. ℃	(Hz)	(ppm)	(ppm)	Verdict
o Glopal Court	E Global Compa	c.C	VN	-10	-7.81	-0.01	±2.5	PASS
Altest	Honor		VN	0	-1.10	-0.00	±2.5	PASS
	1117:	litze	VN	10	2.00	0.00	±2.5	PASS
GSM850	GPRS	LCH	VN	20	0.52	0.00	±2.5	PASS
3 The station of Cloud	® States tallo	(of Globa)	VN	30	-8.78	-0.01	±2.5	PASS
, C	C M		VN	40	-9.36	-0.01	±2.5	PASS
	一板	ucs W	VN	50	-5.42	-0.01	±2.5	PASS
® ##	F The Global Comme	第一等。(GIO	VN	-10	-13.04	-0.01	±2.5	PASS
CC FIN	dane	Allestation	VN	0	-7.68	-0.01	±2.5	PASS
			VN	10	-5.81	-0.01	±2.5	PASS
GSM850	GPRS	MCH	VN	20	-12.46	-0.01	±2.5	PASS
Compliance July	T TA NO.	Jilance ®	VN	30	-9.81	-0.01	±2.5	PASS
(John C	lestation of Gio	~GC	VN	40	-14.98	-0.02	±2.5	PASS
100			VN	50	-10.91	-0.01	±2.5	PASS
1/3	111	HE JULIANCE	VN	-10	-8.52	-0.01	±2.5	PASS
The Global Com	® 45m	Mouol Glopal Cour.	VN	0	-13.88	-0.02	±2.5	PASS
Allestation	-C AND		VN	10	-11.36	-0.01	±2.5	PASS
GSM850	GPRS	HCH	VN	20	-10.20	-0.01	±2.5	PASS
	The Compliant	· 21	VN	30	-8.27	-0.01	±2.5	PASS
(C) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S	tion of Globa	® Attestation of Attestation of	VN	40	-16.27	-0.02	±2.5	PASS
CO "	3.C		VN	50	-15.82	-0.02	±2.5	PASS

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Report No.: AGC00607171204FE02 Page 54 of 59

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp. °C	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
Dana	Wiodo	Ondrinor	VN	-10 %	32.54	0.02	±2.5	PASS
	The Compliant	8	VN	0		0.02		
	ion of Globa	CO			42.62		±2.5	PASS
PCS			VN	10	34.22	0.02	±2.5	PASS
1900	GPRS	LCH	VN	20	44.17	0.02	±2.5	PASS
The Manager	plano	The Kill Compliance	VN	30	38.55	0.02	±2.5	PASS
	(B) ###	of Gu	VN	40	27.06	0.01	±2.5	PASS
\G	0		VN	50	24.15	0.01	±2.5	PASS
	大型型	00	VN	-10	34.55	0.02	±2.5	PASS
	Figure 1 St. Con.	® Front Shots	VN	Ondo	25.25	0.01	±2.5	PASS
PCS		Alfestane	VN	10	26.22	0.01	±2.5	PASS
1900	GPRS	MCH	VN	20	17.89	0.01	±2.5	PASS
1900		g <u>ill</u>	VN	30	21.24	0.01	±2.5	PASS
	The Kill	leucos ®	VN	40	25.83	0.01	±2.5	PASS
	estation of	CO	VN	50	28.15	0.01	±2.5	PASS
Co			VN	-10	28.99	0.02	±2.5	PASS
	ance Mil	The Hill spillers	VN	<b>4</b> 000	27.83	0.01	±2.5	PASS
DCC	8	illon of Global Co	VN	10	22.99	0.01	±2.5	PASS
PCS 1900	GPRS	HCH	VN	20	20.60	0.01	±2.5	PASS
1900	-701		VN	30	34.16	0.02	±2.5	PASS
	The King Complian	43	VN	40	31.51	0.02	±2.5	PASS
	ion of Giv.	Aftestation O	VN	50	18.85	0.01	±2.5	PASS

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Page 55 of 59

# Frequency Error vs. Voltage:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	Verdict
Clopal Cour.	Propar Combin	CO	TN	VL	6.36	0.01	±2.5	PASS
a G Milestation		LCH	TN	VN	3.88	0.00	±2.5	PASS
		-1111	TN	VH	3.43	0.00	±2.5	PASS
The Complant	হ	Compliance	TN	VL	9.00	0.01	±2.5	PASS
WCDMA850	UMTS	MCH	TN	VN	8.91	0.01	±2.5	PASS
- GC	1		TN	VH	9.93	0.01	±2.5	PASS
	T KE pliance	18	TN	VL 🔻	5.51	0.01	±2.5	PASS
· · · · · · · · · · · · · · · · · · ·	ot Glopal Coun.	HCH	TN	VN	7.55	0.01	±2.5	PASS
C.C Marie	a.C	Attestation	TN	VH	6.73	0.01	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	\
Band	Mode	Channel	Temp.	Volt.(V)	(Hz)	(ppm)	(ppm)	Verdict
(S) Affestation	0/0	GU	TN	VL	23.39	0.01	±2.5	PASS
CO		LCH	TN	VN	20.77	0.01	±2.5	PASS
100		KI AM	TN	VH	24.86	0.01	±2.5	PASS
The of Compiles	® A Sallon of	Global Co	TN	VL	26.79	0.01	±2.5	PASS
WCDMA1900	UMTS	MCH	TN	VN	28.29	0.02	±2.5	PASS
	-7111		TN	VH	24.87	0.01	±2.5	PASS
The state of the s	Compliance	T The	TN	VL	23.39	0.01	±2.5	PASS
© Settlestation of G	200	HCH	TN	VN	27.42	0.01	±2.5	PASS
CO.	COL		TN	VH	33.75	0.02	±2.5	PASS

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Page 56 of 59

# Frequency Error vs. Temperature:

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	
Band	Mode	Channel	Volt.	Temp. ℃	(Hz)	(ppm)	(ppm)	Verdict
Clopal Count	Propal Combin	CC	VN	-10	3.19	0.00	±2.5	PASS
Altestation (	4		VN	0	7.20	0.01	±2.5	PASS
G all		-771	VN	10	6.07	0.01	±2.5	PASS
WCDMA850	UMTS	LCH	VN	20	4.84	0.01	±2.5	PASS
3 Alestation of Glob	® ## of G		VN	30	7.14	0.01	±2.5	PASS
) PCC			VN	40	6.99	0.01	±2.5	PASS
	KE Jillance		VN	50	8.90	0.01	±2.5	PASS
WCDMA850	UMTS	MCH	VN 🌕	-10	11.86	0.01	±2.5	PASS
			VN	0	11.92	0.01	±2.5	PASS
			VN	10	10.28	0.01	±2.5	PASS
			VN	20	7.92	0.01	±2.5	PASS
Compliance			VN	30	11.80	0.01	±2.5	PASS
CC			VN	40	10.56	0.01	±2.5	PASS
			VN	50	10.42	0.01	±2.5	PASS
THE STATE OF THE S		The Mariance	VN	-10	8.76	0.01	±2.5	PASS
WCDMA850	UMTS	НСН	VN	0	7.19	0.01	±2.5	PASS
			VN	10	11.35	0.01	±2.5	PASS
			VN	20	8.01	0.01	±2.5	PASS
			VN	30	9.25	0.01	±2.5	PASS
n ® ## inestation of			VN	40	8.65	0.01	±2.5	PASS
60			VN	50	9.19	0.01	±2.5	PASS

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Report No.: AGC00607171204FE02 Page 57 of 59

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp. ℃	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
10 TH	AND THE	® <b>%</b>	VN	-10	24.09	0.01	±2.5	PASS
Clobal Compa	Spal Compilar	CC *	VN	O AMOSTO	24.08	0.01	±2.5	PASS
Attestation Attestation			VN	10	20.78	0.01	±2.5	PASS
WCDMA1900	UMTS	LCH	VN	20	26.89	0.01	±2.5	PASS
The KEI Compliance	孙		VN	30	23.24	0.01	±2.5	PASS
S Attestation of Glub	The station of Glo		VN	40	23.12	0.01	±2.5	PASS
, 'GO	6.		VN	50	22.92	0.01	±2.5	PASS
	F FEI JUIN	杨	VN	-10	30.03	0.02	±2.5	PASS
© A High of	Plopal Coli.,	The Constitution	VN	0	26.08	0.01	±2.5	PASS
	a.C	Attestano	VN	10	27.16	0.01	±2.5	PASS
WCDMA1900	UMTS	MCH	VN	20	31.05	0.02	±2.5	PASS
-111	THE STATE OF		VN	30	23.96	0.01	±2.5	PASS
Compliance	The KEL Compliance	© Alle	VN	40	23.45	0.01	±2.5	PASS
obo. 8 Affestation	3100	CO	VN	50	25.83	0.01	±2.5	PASS
			VN	-10	32.18	0.02	±2.5	PASS
授訓		K Kilmphance	VN	<b>5</b> 000000000000000000000000000000000000	24.54	0.01	±2.5	PASS
The Colobal Company	® ## alation of	3lobal Co	VN	10	29.50	0.02	±2.5	PASS
WCDMA1900	UMTS	HCH	VN	20	28.72	0.02	±2.5	PASS
	1111		VN	30	27.69	0.01	±2.5	PASS
J. J	bal Compliance	THE THOUSE	VN	40	29.72	0.02	±2.5	PASS
( ) The station of C		Attestation	VN	50	26.50	0.01	±2.5	PASS

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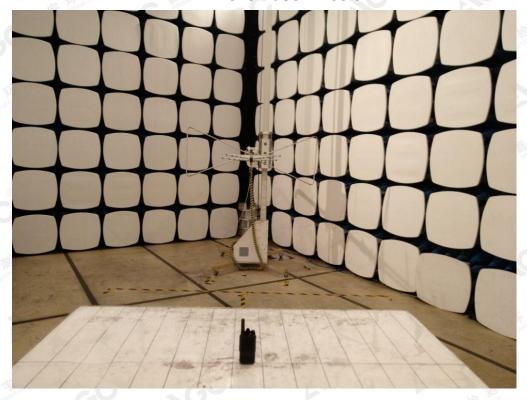
Page 58 of 59

# **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

CONDUCTED EMISSION



RADIATED SPURIOUS EMISSION



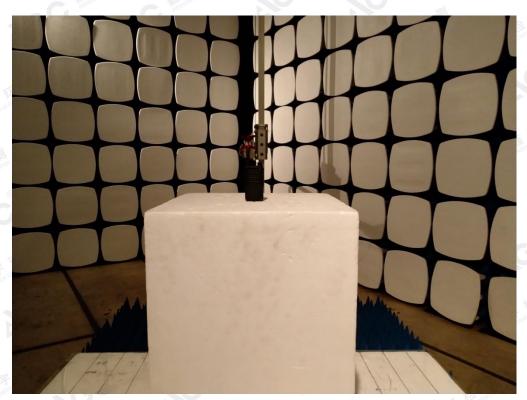
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Report No.: AGC00607171204FE02 Page 59 of 59



CONDUCTED MEASUREMENTS



----END OF REPORT----

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