Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4407B	AAU	12/8/2006	13
Attenuator	Pasternack	PE7005-20	AUN	2/6/2007	13
Power Meter	Gigatronics	8651A	SPM	9/19/2006	12
Power Sensor	Gigatronics	80701A	SPL	9/19/2006	12
Signal Generator	Hewlett-Packard	8648D	TGC	12/7/2006	13

#### MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

#### TEST DESCRIPTION

The 99% bandwidth was measured utilizing the analyzer's peak detector and measuring the carrier's 26 dB occupied bandwidth based on the peak output power level measured. A plot was taken to show the occupied bandwidth is contained within the allowable transmit band.

A direct connection was made between the EUT and a spectrum analyzer. At 3 kHz the spectrum analyzer's resolution bandwidth was sufficiently narrow to plot the actual bandwidth of the signal and not the filter response curve of the spectrum analyzer. The resolution bandwidth was approximately equal to 1% of the 20dB bandwidth and the video bandwidth was greater than or equal to the resolution bandwidth.

The occupied bandwidth was measured with the EUT configured in the modes called out in the data sheets.

NORTHWEST			OCCUPIED E	BANDWIDTH			XMit 2006.11.13
EUT	: S-BTS GSN	Base Station	l			Work Order: RAFN0069	
Customer	: Radioframe	Networks, In	с.			Temperature: 21°C	
Attendees	: Bob Melshe	eimer				Humidity: 32%	
Project Tested by	: None Rod Pelogu	in		Power: 120VAC/60Hz	Barc	ometric Pres.: 30.18	
TEST SPECIFICAT	IONS			Test Method			
FCC 22H:2005				ANSI/TIA/EIA-603-B-20	002		
COMMENTS							
DEVIATIONS FROM	MIESISIA	NDARD					
Configuration #		1	Rochin Les	Relina			
Configuration #		•	Signature	03			
					Value	Limit	Poculte
GSM Modulation	_				value	Linit	Results
	High Power	Low Channel					
		Low onumer	Reference Level Plot	2	0.1 dBm	N/A	N/A
			Occupied Bandwidth Band Edge	2	65.1 kHz 28.9 dBm	N/A ≤ -13 dBm	N/A Pass
		Mid Channel	Duna 2030	-	0.0 0.5.11	L To dom	1 400
			Reference Level Plot Occupied Bandwidth	2	0.1 dBm 61.1 kHz	N/A N/A	N/A N/A
		High Channe		-			
			Reterence Level Plot Occupied Bandwidth	19	9.99 dBM 62.1 kHz	N/A N/A	N/A N/A
			Band Edge	-2	25.6 dBm	≤ -13 dBm	Pass
	Mid Power	Low Channel					
			Reference Level Plot	14	4.07 dBm	N/A	N/A
			Band Edge	-3	67.6 KHZ 35.4 dBm	N/A ≤ -13 dBm	N/A Pass
		Mid Channel	Defense a local Dist			N1/A	N1/A
			Occupied Bandwidth	2	63.1 kHz	N/A N/A	N/A N/A
		High Channe	Peference Level Diet		1.00 dDm	N1/A	N1/A
			Occupied Bandwidth	2	4.23 dBm 62.6 kHz	N/A N/A	N/A
	Low Dowor		Band Edge		31.1 dBm	N/A	Pass
	LOW FOWER	Low Channel					
			Reference Level Plot	8	.35 dBm	N/A	N/A
			Band Edge	-4	0.86 dBm	≤ -13 dBm	Pass
		Mid Channel	Reference Level Plot	8	11 dBm	N/A	N/A
			Occupied Bandwidth	2	62.6 kHz	N/A	N/A
		High Channe	l Reference I evel Plot	8	67 dBM	N/A	N/A
			Occupied Bandwidth	2	62.6 kHz	N/A	N/A
GPRS Modulation			Band Edge	-3	6.23 dBm	≤ -13 dBm	Pass
	High Power	Low Channel					
		LOW Channel	Reference Level Plot	20	0.05 dBm	N/A	N/A
			Occupied Bandwidth	2	61.6 kHz	N/A	N/A Pass
		Mid Channel			-20.32	2 - 15 UDII	F 855
			Reference Level Plot	20	0.02 dBm	N/A N/A	N/A
		High Channe		2		D/A	19/75
			Reference Level Plot Occupied Bandwidth	19	9.85 dBm 62.6 kHz	N/A N/A	N/A N/A
			Band Edge	-2	25.6 dBm	≤ -13 dBm	Pass
	Mid Power	Low Channel					
			Reference Level Plot	1	4.2 dBm	N/A	N/A
			Band Edge	-3	61.1 kHz 31.8 dBm	N/A ≤ -13 dBm	N/A Pass
		Mid Channel	Deference Level Dist			N1/A	N1/A
			Occupied Bandwidth	2	63.1 kHz	N/A N/a	N/A N/A
		High Channe	Reference Level Dict		1 20 dPM	Ν/Λ	NI/A
			Occupied Bandwidth	2	62.6 kHz	N/A	N/A
	Low Power		Band Edge	-3	1.26 dBm	≤ -13 dBM	Pass
	Low - owel	Low Channel					
			Reference Level Plot Occupied Bandwidth	8	.39 dBm 62.6 kH <del>7</del>	N/A N/A	N/A N/A
			Band Edge	-3	7.45 dBm	≤ -13 dBm	Pass
		Mid Channel	Reference Level Plot	<u>م</u>	17 dBm	N/A	N/A
			Occupied Bandwidth	2	63.6 kHz	N/A	N/A
		High Channe	Reference Level Plot	A	.73 dBm	N/A	N/A
			Occupied Bandwidth	2	61.6 kHz	N/A	N/A
			Raud Fade	-3	6.12 dBm	≤ -13 dBm	Pass

		GSM Modulation, High F	<b>,</b> 0%	ver, Low Cha	innel, Reference L	evel Plot		
Result:	N/A	Value	:	20.1 dBm	L	_imit:	N/A	

🔆 🗮 Aç	gilent 1	0:46:09	22 Mar 20	107				RT		
Ref 20	).1 dBm		#At	ten 10 di	В					
Peak Log										
10 dB/										
Offst 21.6										
dВ										
V1 S2 S3 FC										
Center #Res B	∙869.2 M 3W 1 MHz	Hz			₩VBW 3 M	Hz	S	weep 19.	Spa 99 ms (20	n 3 MHz 100 pts)

	GSM Modulation, High Power, Low Channel,	Occupied Bandwidth	
Result: N/A	Value: 265.1 kHz	Limit:	N/A



	GSM Modulation, High Power, Low Channel	l, Band Edge		
Result: Pass	Value: -28.9 dBm	Limit:	≤ -13 dBm	



		GSM Modulation, High Pov	wer, Mid Channel, Reference	e Level Plo	t
Result:	N/A	Value:	20.1 dBm	Limit:	N/A

🔆 🔆 Aç	jilent 14	4:03:31 2	22 Mar 20	107			1	RТ		
Ref 20	).11 dBm		#Ati	ten 10 df	3					
Peak Log										
10 dB/										
0ffst 21.6										
dΒ										
V1 S2 S3 FC										
Center #Res B	* 881.2 M 3W 1 MHz	Hz			⊭VBW 3 MI	Hz	SI	weep 19.	Spa 99 ms (20	n 2 MHz 100 pts)

	GSM Modulation, High Power, Mid Chanr	nel, Occupied Bandwidth	
Result: N/A	Value: 261.1 kHz	Limit: N/	A



		GSM Modulation, High P	ower, High Cha	annel, Reference Level Plo	ot	
Result:	N/A	Value	: 19.99 dBM	Limit:	N/A	

🔆 🔆 Ag	jilent 15	5:16:07 (	22 Mar 20	107				RT		
Ref 19	.99 dBm		#Ati	ten 10 dE	3					
Peak Log										
10 dB/										
Offst 21.6										
dB										
V1 S2 S3 FC										
Center #Res B	893.8 M W 1 MHz	Hz		4	ŧVBW 3 MI	Hz	SI	weep 19.9	Spa 99 ms (20	n 2 MHz 100 pts)

Result:

	GSM Modulation, High Power, High Chan	nei, Occupied Bandwidth	
Result: N/A	Value: 262.1 kHz	Limit: N/A	



	GSIVI IVIOUUIALION, FIGH	Power, flight Channel, band	i Euge	
Pass	Value:	-25.6 dBm	Limit:	≤ -13 dBm



GSM Modulation, Mid Power, Low Channel, Reference Level Plot								
Result:	N/A	Value	: 14.07	dBm	Limit:	N/A		

🔆 🔆 Ag	jilent 13	2:58:50	22 Mar 20	107				RT		
Ref 14	.07 dBm		#Ati	ten 10 dl	В					
Peak Log										
10 dB/										
Offst 21.6										
dB										
V1 S2 S3 EC										
Center #Res B	869.2 M W 1 MHz	Hz			₩VBW 3 M	Hz	s	weep 19.	Spa 99 ms (20	an 2 MHz )00 pts)

 GSM Modulation, Mid Power, Low Channel, Occupied Bandwidth

 Result:
 N/A
 Value:
 267.6 kHz
 Limit:
 N/A

🔆 🔆 🕂	jilent 13	3:02:23 2	22 Mar 20	107				R	Т			
Ref 14	.07 dBm		#Ĥt	ten 10 d	В					Mkr1 ∆	267.6 0.286	kHz i dB
Peak Log 10					Mann	www.wh						
dB/ Offst 21.6 dB				1.8 <sup>4</sup>								
DI -11.9 dBm			مريد				- A	ለ				
V1 S2 S3 E0			A MAN						I'm way	M		
5510	atter Area and a star and a star and a	Wolander									Ne lande	.∼\ <sub>₩</sub>
<b>C</b>												
Center #Res E	869.2 Mi 3W 3 kHz	Hz		,	ŧVBW 10 k	кНz	S	wee	p 11	5) 4.4 ms (	oan ⊥ 2000 p	MHZ pts)

GSM Modulation, Mid Power, Low Channel, Band Edge							
Result: Pass	Value: -35.4 dBm	<b>Limit:</b> ≤ -13 dBm					



	GSM Modulation, Mid Power, Mid Channel, Re	eference Level Plot	
Result: N/A	Value: 13.85 dBm	Limit:	N/A

🔆 🔆 Aç	gilent 14	4:29:01	22 Mar 20	107	RT						
Ref 13	.85 dBm		#Ati	ten 10 df	3						
Peak Log											
10 dB/											
Offst 21.6											
dΒ											
V1 S2 S3 FC											
Center #Res B	· 881.2 M 3W 1 MHz	Hz			⊭VBW 3 MI	Hz	SI	weep 19.	Spa 99 ms (20	ın 2 MHz )00 pts)	

GSM Modulation, Mid Power, Mid Channel, Occupied Bandwidth								
Result: N	N/A	Value:	263.1 kHz	Limit:	N/A			



		GSM Modulation, Mid F	ower,	High Chan	inel, Reference I	_evel Plot		
Result:	N/A	Value	<b>):</b> 14	1.23 dBm		Limit:	N/A	

🔆 🔆 Aç	jilent 15	5:43:01 (	22 Mar 20	107			I	RT			
Ref 14	.23 dBm		#Ati	ten 10 df	3						
Peak Log											
10 dB/											
0ffst 21.6 JP											
ар											
V1 S2 S3 FC											
_											
Center #Res B	893.8 M W 1 MHz	HZ			ŧVBW 3 MI	Hz	Si	weep 19.9	Spa 99 ms (20	n 2 MHz 100 pts)	

GSM Modulation, Mid Power, High Channel, Occupied Bandwidth								
Result: N/A Value: 262.6 kHz	Limit:	N/A						



Result: Pass

Value: -31.1 dBm

N/A

Limit:



		GSM Modulation, Low P	ower, Low Cha	annel, Reference Level Plo	t	
Result:	N/A	Value:	8.35 dBm	Limit:	N/A	

i∰ Ag	jilent 1	3:34:26	22 Mar 20	107				RT		
Ref 8.3	35 dBm		#At	ten 10 dl	В					
Peak Log										
10 dB/										
Offst 21.6										
dB										
V1 S2 S3 EC										
Center #Res B	869.2 M W 1 MHz	1Hz			#VBW 3 M	Hz	S	weep 19.	Spa 99 ms (20	ın 2 MHz 100 pts)

 GSM Modulation, Low Power, Low Channel, Occupied Bandwidth

 Result:
 N/A
 Value:
 262.6 kHz
 Limit:
 N/A



	GSM Modulation, Low Power, Low Chann	el, Band Edge	
Result: Pass	Value: -40.86 dBm	Limit:	≤ -13 dBm



	GSM Modulation, Low Power, Mid Channel, Re	eference Level Plot	
Result: N/A	Value: 8.11 dBm	Limit: N/A	

🔆 🔆 🔆	ዡ Agilent 14:52:38 22 Mar 2007 R T									
Ref 8.1	11 dBm		#Ati	ten 10 df	3					
Peak Log										
10 dB/										
0††st 21.6 dB										
αD										
14 00										
V1 52 S3 FC										
Contor										n 2 MHz
#Res B	3W 1 MHz				¥VBW 3 MI	Hz	SI	weep 19.9	99 ms (20	100 pts)

# EMC

GSM Modulation, Low Power, Mid Channel, Occupied Bandwidth									
Result: N/A	<b>Value:</b> 262.6 kH	z Limit:	N/A						



	GSM Modulation, Low Power, High Channel, Re	eference Level Plo	t
Result: N/A	Value: 8.67 dBM	Limit:	N/A

🔆 🔆 Ag	<b>jilent</b> 16	6:02:57	22 Mar 20	107			l	RT		
Ref 8.0	67 dBm		#At	ten 10 df	3	>			98 Mkr1	)3.805 MHz 3.722 dBm
Peak Log 10										
⊥0 dB/ ∩ffst										
21.6 dB										
V1 S2 S3 EC										
Center #Res B	893.8 M W 1 MHz	Hz			₩VBW 3 MI	Hz	S	wеер 19.	S .99 ms (	pan 2 MHz 2000 pts)

Result:

#### **OCCUPIED BANDWIDTH**

GSM Modulation, Low Power, High Channel, Occupied Bandwidth									
Result: N/A	Value: 262.6 kHz	Limit: N/A							



	GSIVI IVIOUUIALION, LOW	Fower, Flight Cr	iannei, banu Euge		
Pass	Value:	-36.23 dBm	Limit:	≤ -13 dBm	



	GPRS Modulation, High Powe	er, Low Channel, Reference	Level Plc	t
Result: N/A	Value: 2	20.05 dBm	Limit:	N/A



	GPRS Modulation, High Power, Low Channel, C	Occupied Bandwidth
Result: N/A	Value: 261.6 kHz	Limit: N/A



		GPRS Modulation, Hig	h Power, L	₋ow Channel, Band Edge		
Result:	Pass	Value:	-26.32	Limit:	≤ -13 dBm	



GPRS Modulation, High Power, Mid Channel, Reference Level Plot								
Result: N/A	Value: 20.02 dBm	Limit: N/A						

🔆 🔆 🔆	€ Agilent 14:17:07 22 Mar 2007 R T									
Ref 20	.02 dBm		#Ati	ten 10 dE	3					
Peak Log										
10 dB/										
0ffst 21.6 JP										
аD										
V1 S2 S3 FC										
_										
Lenter 881.2 MHz #Res BW 1 MHz					ŧVBW 3 MI	Hz	S	weep 19.9	Spa 99 ms (20	n 2 MHz 100 pts)

	GPRS Modulation, High Power, Mid Channel, Occupied Bandwidth							
Result: N/A	Value: 261.1 kHz	Limit: N/A						



GPRS Modulation, High Power, High Channel, Reference Level Plot									
Result: N/A	Value: 19.85 dBm	Limit:	N/A						

Ref 19.85 dBm       *Atten 10 dB         Peak	🔆 🔆 Ag	Agilent 15:27:21 22 Mar 2007 R T									
Peak Log 10 dB/ 0ffst 21.6 dB V1 \$2 \$3 FC Center 893.8 MHz Span 2 MHz Span 2 MHz	Ref 19	.85 dBm		#Ati	ten 10 dE	3					
10 dB/ 0ffst 21.6 dB V1 S2 S3 FC Center 893.8 MHz Span 2 MHz Span 2 MHz	Peak Log										
Uf fst 21.6 dB V1 S2 S3 FC Center 893.8 MHz Span 2 MHz	10 dB/										
V1 S2 S3 FC Center 893.8 MHz Span 2 MHz	0†fst 21.6 dB										
V1 S2 S3 FC	αD										
V1 S2 S3 FC											
VI 52 \$3 FC Center 893.8 MHz Span 2 MHz	111 00										
Center 893.8 MHz Span 2 MHz	VI 52 S3 FC										
Center 893.8 MHz Span 2 MHz											
Center 893.8 MHz Span 2 MHz											
	Center	893.8 M									in 2 MHz
#Res BW 1 MHz #VBW 3 MHz Sweep 19.99 ms (2000 pts)	#Res BW 1 MHz ===================================						100 pts)				

Result: N/A Value: 262.6 kHz Limit: N/A			GPRS Modulation, High F	GPRS Modulation, High Power, High Channel, Occupied Bandwidth							
	Result:	N/A	Value:	262.6 kHz	Limit:	N/A					



		gh Power, high Channel, banc	⊏uge	
Result: Pas	Value:	-25.6 dBm	Limit:	≤ -13 dBm



		GPRS Modulation, Mid F	ower, Low Ch	annel, Reference Level Plo	ot	
Result:	N/A	Value	: 14.2 dBm	Limit:	N/A	

🔆 Ag	ilent 1	3:13:58	22 Mar 20	107				RT		
Ref 14.	.2 dBm		#At	ten 10 di	В					
Peak Log										
10 dB/										
Offst 21.6										
dB										
V1 S2 S3 EC										
00 T C I										
Center 869.2 MHz #Res BW 1 MHz				#VBW 3 MHz			s	Span 2 MHz Sweep 19.99 ms (2000 pts)		

 GPRS Modulation, Mid Power, Low Channel, Occupied Bandwidth

 Result:
 N/A
 Value:
 261.1 kHz
 Limit:
 N/A



	GPRS Modulation, Mid Power, Low Channel, Band Edge								
Result: Pass	Value: -31	.8 dBm Limit:	≤ -13 dBm						



	GPRS Modulation, Mid Power, Mid Channel, Re	eference Level Plot	
Result: N/A	Value: 13.98 dBm	Limit: N/A	

🔆 🔆 🔆	€ Agilent 14:40:01 22 Mar 2007 R T									
Ref 13	.98 dBm		#Ati	ten 10 df	3					
Peak Log										
10 dB/										
Offst 21.6 JP										
ар										
V1 S2 S3 FC										
C	001 0 M									
#Res BW 1 MHz #VBW 3 MHz Sweep 19.99 ms (2000					m z mHz 100 pts)					

GPRS Modulation, Mid Power, Mid Channel, Occupied Bandwidth							
Result: N/A	Value: 263.1 kHz	Limit:	N/a				



		GPRS Modulation, Mid Pov	wer, High Char	nnel, Reference Level Plo	ot	
Result:	N/A	Value:	14.29 dBM	Limit:	N/A	

🔆 🔆 Ag	jilent 15	5:52:38	22 Mar 20	107	<sup>/</sup> RT					
Ref 14	.29 dBm		#Ati	ten 10 dE	3					
Peak Log										
10 dB/										
Offst 21.6										
аБ										
V1 S2 S3 FC										
Center #Res B	893.8 M W 1 MHz	Hz			ŧVBW 3 MI	Ηz	SI	weep 19.9	Spa 99 ms (20	n 2 MHz 100 pts)

GPRS Modulation, Mid Power, High Channel, Occupied Bandwidth							
Result: N/A	Value: 262.6 kHz	Limit: N/A					



		GPRS Modulation, Min	u Power, nigh Channel, ban	u ⊏uye	
Result:	Pass	Value:	-31.26 dBm	Limit:	≤ -13 dBM



		GPRS Modulation, Low F	Power, Low Ch	nannel, Reference Level Pl	ot	
Result:	N/A	Value	: 8.39 dBm	Limit:	N/A	

🔆 Agi	ilent 13	3:47:50	22 Mar 20	107				RT		
Ref 8.3	9 dBm		#At	ten 10 dl	В					
Peak [ Log										
10 dB/										
Offst 21.6										
dB										
V1 S2 S3 EC										
Center #Res Bl	869.2 M W 1 MHz	Hz			#VBW 3_M	Hz	S	weep 1 <u>9</u> .	Spa 99 ms (20	an 2 MHz )00 pts)

 GPRS Modulation, Low Power, Low Channel, Occupied Bandwidth

 Result:
 N/A
 Value:
 262.6 kHz
 Limit:
 N/A



GPRS Modulation, Low Power, Low Channel, Band Edge							
Result: Pa	ss Value:	-37.45 dBm	Limit:	≤ -13 dBm			



GPRS Modulation, Low Power, Mid Channel, Reference Level Plot							
Result: N/A	Value: 8.17 dBm	Limit: N/A					

🔆 🔆 🔆	jilent 15	5:03:18	22 Mar 20	107 <b>R</b>					Т		
Ref 8.1	17 dBm		#Ati	ten 10 di	3						
Peak											
10 dB/											
Offst 21.6											
dB											
V1 S2 S3 FC											
Center #Res B	·881.2 M 3W 1 MHz	Hz			#VBW 3 MI	Hz	SI	weep 19.	Spa 99 ms (20	n 2 MHz 100 pts)	

GPRS Modulation, Low Power, Mid Channel, Occupied Bandwidth							
Result: N/A	Value: 263.6 kHz	Limit: N/A					



GPRS Modulation, Low Power, High Channel, Reference Level Plot							
Result:	N/A	Value	8.73 dBm	Limit:	N/A		

🔆 🔆 Aç	<b>jilent</b> 16	6:12:06	22 Mar 20	107			1	RТ		
Ref 8.	73 dBm		#Ati	ten 10 df	3					
Peak Log										
10 dB/										
0ffst 21.6										
dΒ										
V1 S2 S3 FC										
Center #Res B	· 893.8 M 3W 1 MHz	Hz			¥VBW 3 MI	Hz	SI	weep 19.	Spa 99 ms (20	n 2 MHz 100 pts)

GPRS Modulation, Low Power, High Channel, Occupied Bandwidth								
Result: N/A	Value:	261.6 kHz	Limit:	N/A				



	GPRS Modulation, Low Power, Figh Channel, Band Edge					
Result: Pass	Value: -36.12 dBm	<b>Limit:</b> ≤ -13 dBm				











Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4407B	AAU	12/8/2006	13
Attenuator	Pasternack	PE7005-20	AUN	2/6/2007	13
Power Meter	Gigatronics	8651A	SPM	9/19/2006	12
Power Sensor	Gigatronics	80701A	SPL	9/19/2006	12
Signal Generator	Hewlett-Packard	8648D	TGC	12/7/2006	13

#### MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

#### TEST DESCRIPTION

The 99% bandwidth was measured utilizing the analyzer's peak detector and measuring the carrier's 26 dB occupied bandwidth based on the peak output power level measured. A plot was taken to show the occupied bandwidth is contained within the allowable transmit band.

A direct connection was made between the EUT and a spectrum analyzer. At 3 kHz the spectrum analyzer's resolution bandwidth was sufficiently narrow to plot the actual bandwidth of the signal and not the filter response curve of the spectrum analyzer. The resolution bandwidth was approximately equal to 1% of the 20dB bandwidth and the video bandwidth was greater than or equal to the resolution bandwidth.

The occupied bandwidth was measured with the EUT configured in the modes called out in the data sheets.

NORTHWEST			OCCUPIED E	BANDWIDTH			XMit 2006.11.13
EUT	: S-BTS GSN	Base Station	1			Work Order: RAFN0069	
Customer	: Radioframe	e Networks, In	с.			Temperature: 21°C	
Attendees	: Bob Melshe	eimer				Humidity: 32%	
Project Tested by	: None : Rod Pelogi	iin		Power: 120VAC/60Hz	Bar	ometric Pres.: 30.18	
TEST SPECIFICAT	IONS			Test Method			
FCC 24E:2005				ANSI/TIA/EIA-603-B-2	002		
COMMENTS							
DEVIATIONS FRO	M TEST STA	NDARD					
			0.01	Pl			
Configuration #		1	Porting to	Keling			
			Signature	V			
OOM Made la face					Value	Limit	Results
GSM Modulation	High Power						
		Low Channe	Poference Lovel Plet	2	2.94 dDm	NI/A	NI/A
			Occupied Bandwidth	2	265.1 kHz	N/A	N/A
		Mid Channel	Band Edge	-	24.5 dBm	≤ -13 dBm	Pass
		Jing Onarmer	Reference Level Plot	2	2.93 dBm	N/A	N/A
		High Channe	Occupied Bandwidth		266.1 kHz	N/A	N/A
		. ng Shanne	Reference Level Plot	2	1.54 dBm	N/A	N/A
			Occupied Bandwidth Band Edge	2	266.6 kHz 22.9 dBm	N/A ≤ -13 dBm	N/A Pass
	Mid Power		Bana Eage		EE.0 GBIII	2 10 0011	1 455
		Low Channe	Reference Level Plot	1	6.79 dBm	N/A	N/A
			Occupied Bandwidth	2	266.6 kHz	N/A	N/A
		Mid Channel	Band Edge	-	31.6 dBm	≤ -13 dBm	Pass
			Reference Level Plot	1	7.47 dBm	N/A	N/A
		High Channe	Occupied Bandwidth	2	272.1 kHz	N/A	N/A
			Reference Level Plot	1	7.76 dBm	N/A	N/A
			Band Edge	2	-26.83	N/A N/A	N/A Pass
	Low Power						
		Low Channe	Reference Level Plot	1	0.89 dBm	N/A	N/A
			Occupied Bandwidth	2	266.1 kHz	N/A	N/A
		Mid Channel	Band Edge	-	37.1 dBm	≤ -13 dBm	Pass
			Reference Level Plot	1	1.95 dBm	N/A	N/A
		High Channe	al Occupied Bandwidth	2	265.6 KHZ	N/A	N/A
		0	Reference Level Plot	1	2.76 dBm	N/A	N/A
			Band Edge	-	269.6 KHZ 32.0 dBm	N/A ≤ -13 dBm	N/A Pass
GPRS Modulation	High Power						
	TigitFower	Low Channe	I				
			Reference Level Plot	2	2.81 dBm	N/A	N/A
			Band Edge	-2	23.32 dBm	≤ -13 dBm	Pass
		Mid Channel	Reference Level Plot	2 2 2	2.94 dBm	N/A	N/A
			Occupied Bandwidth	2	262.6 kHz	N/A	N/A
		High Channe	Reference Level Plot	2	1.53 dBm	N/A	N/A
			Occupied Bandwidth	2	262.6 kHz	N/A	N/A
	Mid Power		Band Edge	-2	23.12 dBm	≤ -13 dBm	Pass
		Low Channe					
			Reference Level Plot Occupied Bandwidth	1	6.79 dBm 264.6 kHz	N/A N/A	N/A N/A
			Band Edge	-2	28.39 dBm	≤ -13 dBm	Pass
		Mid Channel	Reference Level Plot	1	7.52 dBm	N/A	N/A
			Occupied Bandwidth	2	262.1 kHz	N/a	N/A
		High Channe	Reference Level Plot	1	7.76 dBm	N/A	N/A
			Occupied Bandwidth	2	262.1 kHz	N/A	N/A
	Low Power			-2	49 aBM	≤ -13 aBM	Pass
		Low Channe	Peference Level Dict		0.99 dD	N1/A	N1/A
			Occupied Bandwidth	1	0.88 uBM 262.6 kHz	N/A N/A	N/A N/A
		Mid Character	Band Edge		34.57 dBm	≤ -13 dBm	Pass
		wild Channel	Reference Level Plot	1	1.94 dBm	N/A	N/A
		High Ob	Occupied Bandwidth	2	262.1 kHz	N/A	N/A
		riigh Channe	Reference Level Plot	1	2.75 dBm	N/A	N/A
			Occupied Bandwidth	2	262.1 kHz	N/A	N/A
			Dand Euge	-3	01.00 GBM	≤ -13 aBm	Pass

		GSM Modulation, High F	ower, Low Cha	nnel, Reference Level Plo	t	
Result:	N/A	Value	: 22.84 dBm	Limit:	N/A	

🔆 🗮 Ag	gilent (	18:05:49	23 Mar 20	107				RT		
Ref 22	.84 dBm		#At	ten 20 dl	В					
Peak Log										
10 dB/										
0ffst 21.6										
dB										
V1 S2 S3 EC										
00 10										
Center #Res B	1.93 GH 3W 1 MHz	łz			₩VBW 3 M	Hz	s	weep 19.	Spa 99 ms (20	n 2 MHz )00 pts)

GSM Modulation, High Power, Low Channel, Occupied Bandwidth								
Result: N/A	Value: 265.1 kHz	Limit:	N/A					



	GSM Modulation, High Power, Low Channel, Band Edge								
Result: Pas	S Value:	-24.5 dBm	Limit:	≤ -13 dBm					



		GSM Modulation, High I	Power, M	lid Channe	I, Reference Level Plot		
Result:	N/A	Value	: 22.93	3 dBm	Limit:	N/A	

🔆 🔆 Ag	<b>Agilent</b> 09:31:44 23 Mar 2007 <b>R T</b>									
Ref 22	.93 dBm		#Ati	ten 20 dE	3					
Peak Log										
10 dB/										
Offst 21.6										
aв										
V1 S2 S3 FC										
Center #Res B	1.96 GH: 3W 1 MHz	Z			≢VBW 3 MI	Hz	SI	weep 19.9	Spa 99 ms (20	n 2 MHz 100 pts)

GSM Modulation, High Power, Mid Channel, Occupied Bandwidth							
Result: N/A	Value: 266.1 kHz	Limit: N/A					



		GSM Modulation, High P	ower, High Cha	nnel, Reference Level Ple	ot	
Result:	N/A	Value	: 21.54 dBm	Limit:	N/A	

🔆 🔆 Aç	ዡ Agilent 11:31:06 23 Mar 2007 R T									
Ref 21	.54 dBm		#Ati	ten 20 df	3					
Peak Log										
10 dB/										
Offst 21.6										
dB										
V1 S2 S3 FC										
Center #Res B	1.99 GH: 3W 1 MHz	Z			⊭VBW 3 MI	Hz	S	weep 19.	Spa 99 ms (20	n 2 MHz )00 pts)

Result:

	GSM Modulation, High Power, High Channel, Occupied Bandwidth								
Result: N/A	Value: 266.6 kHz	Limit: N/A							



	Gow would ton, right	FOWER, HIGH C	nannei, banu Luye		
Pass	Value:	-22.9 dBm	Limit:	≤ -13 dBm	



		GSM Modulation, Mid Pe	ower,	Low Chan	nel, Reference Lev	el Plot	
Result:	N/A	Value	16	6.79 dBm	Liı	mit:	N/A

🔆 🗮 Ag	jilent 08	3:29:40	23 Mar 20	107				RT		
Ref 16	.79 dBm		#At	ten 20 dl	В					
Peak Log										
10 dB/										
0ffst 21.6										
dB										
V1 S2 S3 EC										
Center #Res B	1.93 GH W 1 MHz	Z			₩VBW 3 M	Hz	S	weep 19.	Spa 99 ms (20	an 2 MHz )00 pts)

 GSM Modulation, Mid Power, Low Channel, Occupied Bandwidth

 Result:
 N/A
 Value:
 266.6 kHz
 Limit:
 N/A



GSM Modulation, Mid Power, Low Channel, Band Edge								
Result: Pass	Value: -31.6 dBm	<b>Limit:</b> ≤ -13 dB	m					



	GSM Modulation, Mid Power, Mid Channel, Re	eference Level Plot	
Result: N/A	Value: 17.47 dBm	Limit: N/A	

🔆 🔆 Ag	ዡ Agilent         09:59:14         23 Mar         2007         R         T									
Ref 17	.47 dBm		#Ati	ten 20 df	3					
Peak Log										
10 dB/										
0ffst 21.6 JP										
uD										
V1 S2 S3 FC										
<u> </u>										
uenter #Res B	1.96 GH: SW 1 MHz	Ζ			¥VBW 3 MI	Hz	Si	weep 19.9	5pa 99 ms (20	in Z MHZ 100 pts)
GSM Modulation, Mid Power, Mid Channel, Occupied Bandwidth										
--	------------------	------------	--	--	--	--	--	--	--	
Result: N/A	Value: 272.1 kHz	Limit: N/A								



	GSM Modulation, Mid Power, High Channel, Reference Level Plot								
Result:	N/A	Value	):	17.76 dBm	l	_imit:	N/A		

🔆 👫 Ag	<b>jilent</b> 11	:59:44 2	23 Mar 20	107			I	RT		
Ref 17	.76 dBm		#Ati	ten 20 dE	3					
Peak Log										
10 dB/										
Offst 21.6 ⊿R										
аD										
V1 S2 S3 FC										
_										
∪enter #Res B	1.99 GH: SW 1 MHz	Z			₩VBW 3 MI	Hz	Si	weep 19.9	5pa 99 ms (20	n 2 MHz 100 pts)

	GSM Modulation, Mid Power, High Channel, Occupied Bandwidth								
Result: N/A	Value: 268.6 kHz	Limit:	N/A						



 GSM Modulation, Mid Power, High Channel, Band Edge

 Result:
 Pass
 Value:
 -26.83
 Limit:
 N/A



GSM Modulation, Low Power, Low Channel, Reference Level Plot								
Result:	N/A	Value:	10.89 dBm	Limit:	N/A			

🔆 Ag	gilent 0	8:59:30	23 Mar 20	107				RT		
Ref 10	.89 dBm		#At	ten 20 di	В					
Peak Log			+					<b></b>		
10 dB/										
0ffst 21.6										
dB										
V1 S2 S3 EC										
00 10										
Center #Res B	1.93 GH WW 1 MHz	lz		#VBW 3 MHz			s	Span 2 MHz Sweep 19.99 ms (2000 pts)		

 GSM Modulation, Low Power, Low Channel, Occupied Bandwidth

 Result:
 N/A
 Value:
 266.1 kHz
 Limit:
 N/A



GSM Modulation, Low Power, Low Channel, Band Edge								
Result: Pass	Value: -37.1 dBm	Limit:	≤ -13 dBm					



	GSM Modulation, Low Power, Mid Channel, Reference Level Plot									
Result:	N/A	Value:	11.95 dBm	Limit:	N/A					

🔆 🔆 Ag	jilent 10	0:26:14	23 Mar 20	07			1	RТ		
Ref 11	.95 dBm		#Ati	ten 20 dE	3					
Peak Log										
10 dB/										
Offst 21.6										
ав										
V1 S2 S3 FC										
Center #Res B	1.96 GH: W 1 MHz	Z		4	¥VBW 3 MI	Ηz	SI	weep 19.9	Spa 99 ms (20	n 2 MHz 100 pts)

GSM Modulation, Low Power, Mid Channel, Occupied Bandwidth									
Result: N/A	Value: 265.6 kHz	Limit: N/A							



GSM Modulation, Low Power, High Channel, Reference Level Plot									
Result: N/A	Value	: 12.76 dBm	Limit:	N/A					

🔆 🔆 Ag	jilent 12	2:32:23	23 Mar 20	107			- I	RT		
Ref 12	.76 dBm		#Ati	ten 20 dE	3					
Peak Log										
10 dB/										
Offst 21.6										
dB										
V1 S2 S3 FC										
Center #Res B	1.99 GH: W 1 MHz	Z			ŧVBW 3 MI	Ηz	SI	weep 19.9	Spa 99 ms (20	n 2 MHz 100 pts)

Result:

GSM Modulation, Low Power, High Channel, Occupied Bandwidth						
Result: N/A	Value:	269.6 kHz	Limit:	N/A		



	GSIVI IVIOUUIALION, LOW	Fower, Fight	Channel, banu Euge		
Pass	Value:	-32.0 dBm	Limit:	≤ -13 dBm	



		GPRS Modulation, High I	Power, Low Cha	nnel, Reference Level Plo	ot	
Result:	N/A	Value	: 22.81 dBm	Limit:	N/A	

🔆 🗮 Ag	gilent (	08:14:49	23 Mar 20	107				RT		
Ref 22	.81 dBm		#Ati	ten 20 di	В					
Peak Log			+							
10 dB/										
0ffst 21.6										
dB										
V1 S2 S3 EC										
00.0										
Center #Res B	1.93 GI 3W 1 MHz	Hz 2			₩VBW 3 M	Hz	s	weep 19.	Spa 99 ms (20	an 2 MHz )00 pts)

 GPRS Modulation, High Power, Low Channel, Occupied Bandwidth

 Result:
 N/A
 Value:
 262.6 kHz
 Limit:
 N/A



	GPRS Modulation, High Power, Low Chan	nel, Band Edge		
Result: Pass	Value: -23.32 dBm	Limit:	≤ -13 dBm	



		GPRS Modulation, High Power, M	lid Channel, Reference Level P	lot
Result:	N/A	Value: 22.94	dBm Limit:	N/A

🔆 🔆 Aç	jilent 09	9:48:40	23 Mar 20	107			I	RТ		
Ref 22	.94 dBm		#Ati	ten 20 df	3					
Peak Log										
10 dB/										
Offst 21.6 JP										
ав										
V1 S2 S3 FC										
_										
Lenter #Res B	1.96 GH: SW 1 MHz	Z			₩VBW 3 MI	Hz	S	weep 19.	Spa 99 ms (20	in 2 MHz 100 pts)

	GPRS Modulation, High Power, Mid Channel,	Occupied Bandwidth	
Result: N/A	Value: 262.6 kHz	Limit: N/A	



GPRS Modulation, High Power, High Channel, Reference Level Plot					
Result: N/A	Value: 21.53 dBm	Limit:	N/A		

🔆 🔆 🔆	<b>jilent</b> 11	:42:50	23 Mar 20	107			I	RT		
Ref 21	.53 dBm		#Ati	ten 20 dE	3					
Peak Log										
10 dB/										
0††st 21.6 dB										
αD										
V1 S2 S3 FC										
_										
Lenter ≢Res B	1.99 GH: SW 1 MHz	Z			ŧVBW 3 M	Hz	S	weep 19.	Spa 99 ms (20	in 2 MHz 100 pts)

GP	RS Modulation, High Power, High Channel,	Occupied Bandwidth	1
Result: N/A	Value: 262.6 kHz	Limit:	N/A



	GERS MOUUIALION, FIIGH FOWER, FIIGH CHAIN	nei, danu Euge
Result: Pass	Value: -23.12 dBm	<b>Limit:</b> ≤ -13 dBm



		GPRS Modulation, Mid F	ower, Low Cha	nnel, Reference Level Plo	ot	
Result:	N/A	Value	: 16.79 dBm	Limit:	N/A	

🔆 Agilent	08:45:53	23 Mar 20	07				RT		
Ref 16.79 dE	⊰m	#Ati	:en 20 di	В					
Peak Log		+							
10 dB/									
0ffst 21.6									
dB									
V1 S2 S3 FC									
Center 1.93 #Res BW 1 M	GHz Hz			#VBW 3 M	Hz	S	weep 19.	Spa 99 ms (20	an 2 MHz )00 pts)

 GPRS Modulation, Mid Power, Low Channel, Occupied Bandwidth

 Result:
 N/A
 Value:
 264.6 kHz
 Limit:
 N/A

🔆 Ag	ilent 08	8:49:58	23 Mar 20	107				R	Т				
Ref 16.	.79 dBm		#Ati	ten 20 df	3					Mkr1 ∆	2	64.6 0.59	kHz dB
Peak Log 10 dB/ Offst 21.6 dB				1R Qui	Mana	nowly							
UI -9.2 dBm			North Contract				- <sup>V</sup> V	1~	لىر. بر				
\$3 FC.	www.	and the second	/								*	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>``</b>
Center #Res Bl	1.93 GH W 3 kHz	z		#	VBW 10 k	:Hz	S	weet	o 11	4.4 ms	Spa (20	n 1 M 100 p	¶Hz ts)

		, Band Edge	d Power, Low Chan	GPRS Modulation, Mi		
Result: Pass Value: -28.39 dBm Limit: S -13 dBm	≤ -13 dBm	Limit:	-28.39 dBm	Value:	Pass	Result:



	GPRS Modulation, Mid Power, M	id Channel, Reference Level Plot	
Result: N/A	Value: 17.52	2 dBm Limit: N/A	

🔆 🔆 Ag	jilent 10	0:11:59	23 Mar 20	107			I	RT		
Ref 17	.52 dBm		#Ati	ten 20 dE	3					
Peak Log										
10 dB/										
Offst 21.6 JP										
ав										
V1 S2 S3 FC										
Center #Res B	1.96 GH: 3W 1 MHz	Z			¥VBW 3 MI	Hz	S	weep 19.9	Spa 99 ms (20	n 2 MHz 100 pts)

	GPRS Modulation, Mid Power, Mid Channel,	Occupied Bandwidth	
Result: N/A	Value: 262.1 kHz	Limit:	N/a



		GPRS Modulation, Mid Powe	r, High Channel,	Reference Level Plo	ot
Result:	N/A	Value: 1	17.76 dBm	Limit:	N/A

🔆 👫 Ag	jilent 12	2:13:00	23 Mar 20	107			I	RТ		
Ref 17	.76 dBm		#Ati	ten 20 df	3					
Peak Log										
10 dB/										
Uffst 21.6 dB										
V1 S2										
\$3 FC										
Center	1.99 GH	z							Spa	in 2 MHz
#Res B	W 1 MHz			ł	¥VBW 3 MI	Hz	SI	weep 19.	99 ms (20	100 pts)

	, , , <b>.</b>		
Result: N/A	Value: 262.1 kHz	Limit: N/A	



Result: Pass

Value: -27.49 dBm

Limit:

≤ -13 dBM



		GPRS Modulation, Low P	ower, Low Cha	nnel, Reference Level Plo	t	
Result:	N/A	Value:	10.88 dBm	Limit:	N/A	

i∰ Ag	gilent	09:13:41	23 Mar 20	107				RT		
Ref 10	1.88 dBr	n	#At	ten 20 di	В					
Peak Log										
10 dB/										
Offst 21.6										
dB										
V1 S2										
55 FC										
Center #Res B	1.93 G 3W 1 MH	iHz z			#VBW 3 M	Hz	s	weep 19.	Spa 99 ms (20	an 2 MHz 000 pts)

 GPRS Modulation, Low Power, Low Channel, Occupied Bandwidth

 Result:
 N/A
 Value:
 262.6 kHz
 Limit:
 N/A



	GPRS Modulation, Lo	ow Power, Low Channel, Band	Edge	
Result: Pass	Value:	-34.57 dBm	Limit:	≤ -13 dBm



		GPRS Modulation, Low Po	ower, Mid Chan	nel, Reference Level Plo	ot	
Result:	N/A	Value:	11.94 dBm	Limit:	N/A	

🔆 🔆 Ag	jilent 10	0:36:17	23 Mar 20	07			- I	RТ		
Ref 11	.94 dBm		#Ati	ten 20 dE	3					
Peak Log										
10 dB/										
Offst 21.6										
аБ										
V1 S2 S3 FC										
Center #Res B	1.96 GH: W 1 MHz	Z		4	ŧVBW 3 MI	Ηz	SI	weep 19.9	Spa 99 ms (20	n 2 MHz 100 pts)

	GPRS Modulation, Low Power, Mid Channel, G	Occupied Bandwidth	
Result: N/A	Value: 262.1 kHz	Limit: N/A	



		GPRS Modulation, Low F	Power, High Ch	annel, Reference Level Pl	ot	
Result:	N/A	Value	: 12.75 dBm	Limit:	N/A	

🔆 🔆 🔆	jilent 12	2:49:37	23 Mar 20	107			I	RT		
Ref 12	.75 dBm		#Ati	ten 20 df	3					
Peak Log										
10 dB/										
0ffst 21.6 JP										
аD										
V1 S2 S3 FC										
_										
Center #Res B	1.99 GH: WW 1 MHz	Z			#VBW 3 MI	Hz	S	weep 19.9	Spa 99 ms (20	n 2 MHz 100 pts)

	r to modulation, Eow r ower, r ligh onaline		
Result: N/A	Value: 262.1 kHz	Limit: N/A	



		GPRS MOUUIALION, LOV
Result:	Pass	Value:

Value: -31.88 dBm

Limit:

≤ -13 dBm











Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator	Pasternack	PE7005-20	AUN	2/6/2007	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/8/2006	13

#### MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

#### TEST DESCRIPTION

The antenna port spurious emissions were measured at the RF output terminal of the EUT with 20dB of external attenuation on the RF input of the spectrum analyzer. Analyzer plots utilizing a 100 kHz resolution bandwidth and no video filtering were made for each modulation type from 0 to 10 GHz. The peak conducted power of spurious emissions, up to the  $10^{th}$  harmonic of the transmit frequency, were investigated to ensure they were less than or equal to -13 dBm.

NORTHWEST			XMit 2006.11.13
EMC	Spurious Co	onducted Emissions	
EUT	S-BTS GSM Base Station		Work Order: RAFN0069
Serial Numbe	r: Engineering Unit		Date: 03/26/07
Custome	r: Radioframe Networks, Inc.		Temperature: 22°C
Attendees	S: Bob Melsheimer		Humidity: 33%
Projec Tostod by	Crog Kiemel	Bower: 120\/AC/60Hz	Barometric Pres.: 29.91
TEST SPECIFICA	TIONS	Test Method	Job Site. Evoo
FCC 22H:2005		ANSI/TIA/EIA-603-B-2002	
COMMENTS	Dewer		
	Power		
DEVIATIONS FRO	OM TEST STANDARD		
Configuration #	1 A	HU.K.P	
	Signature	Velue	Limit Desults
GSM		Value	
	Low Channel		
	In Band	≤ -30 dE	3m ≤ -13 dBm Pass
		≤ -30 dE	Sm ≤ 13 dBm Pass
	2 795 - 4 5 GHz	≤ -30 dE ≤ -30 dE	Sm ≤-13 dBm Pass
	4.495 - 6 GHz	⊆ -30 dE ≤ -30 dE	3m ≤ -13 dBm Pass
	5.995 - 7.5 GHz	≤ -30 dE	Sm ≤ -13 dBm Pass
	7.495 - 9 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	Mid Channel		
	In Band	≤ -30 dE	3m ≤ -13 dBm Pass
	0 - 1 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	995 MHz - 2.8 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	2.795 - 4.5 GHZ	≤ -30 dE	Sm ≤ -13 dBm Pass
	4.495 - 0 GHZ 5 995 - 7 5 GHz	≤ -30 dE < -30 dE	Sili ≥-13 dBili Pass Sm <_13 dBm Pass
	7 495 - 9 GHz	≤ -30 dE ≤ -30 dE	Sm ≤-13 dBm Pass
	High Channel	_ 00 41	
	In Band	≤ -30 dE	3m ≤ -13 dBm Pass
	0 - 1 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	995 MHz - 2.8 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	2.795 - 4.5 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	4.495 - 6 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	5.995 - 7.5 GHz	≤ -30 dE	Sm ≤ -13 dBm Pass
GPRS	7.495 - 9 GHZ	≤ -30 de	Sin S-15 UBIN Pass
GING	Low Channel		
	In Band	≤ -30 dE	3m ≤ -13 dBm Pass
	0 - 1 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	995 MHz - 2.8 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	2.795 - 4.5 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	4.495 - 6 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	5.995 - 7.5 GHz	≤ -30 dE	Bm ≤ -13 dBm Pass
	7.495 - 9 GHZ Mid Channel	S -30 de	Sm ≤-13 dBm Pass
	In Band	< -30 dE	Sm <_13 dBm Pass
	0 - 1 GHz	⊆ -30 dE ≤ -30 dE	3m ≤-13 dBm Pass
	995 MHz - 2.8 GHz	≤ -30 dE	Bm ≤ -13 dBm Pass
	2.795 - 4.5 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	4.495 - 6 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	5.995 - 7.5 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	7.495 - 9 GHz	≤ -30 dE	3m ≤ -13 dBm Pass
	High Channel		
		≤ -30 dE	sm ≤ -13 dBm Pass
		≤ -30 dE	onii ≤-13 aBm Pass
	990 MITZ - 2.0 GHZ 2 795 - 4 5 GHz	≤ -30 0E < >0 dE	Sm ≤_13 dBm Pass
	2.735 - 4.3 GHZ 4.495 - 6 GHz	> 0 00 ≤ 20 00	Sm = 10 dDill Pass Sm < 13 dBm Pass
	5.995 - 7.5 GHz	≤ -30 dE < -30 dF	Sm ≤-13 dBm Pass
	7.495 - 9 GHz	≤ -30 dE ≤ -30 dE	Bm ≤-13 dBm Pass

<b>Popult:</b> Pass Value: $\leq 20  dPm$ Limit: $\leq 12  dPm$			GSM, Lo	ow Channel, In Band		
	Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm



		GSM, Lo	w Channel, 0 - 1 GHz		
Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm

🔆 🔆 Ag	jilent 0	8:14:37	26 Mar 20	07				RT		
Ref 30	∣dBm		#At	ten 20 df	3					
Peak Log										
10 dB/										
Offst 21.6										
ав										
V1 S2		المراجع المراجع		ماريد وارد ارو	al da <sup>bl</sup> assana (ja ji)			ay la Maldhèarda		a la giorna factoria da se
SS FC AA			· · · · · · · · · · · · · · · · · · ·	a	<b>del Barlindia</b> del  a da barra d		a di la di			مطع <b>الطبين من الما</b>
Start € #Res B	0 Hz W 100 k	Hz		#!	VBW 300 I	kHz	S	weep 103	Sto 3.6 ms (81	op 1 GHz 192 pts)
C:\SC	C:\SCREN001.GIF file saved									

Result:

	GSM, Low Channel, 995 MHz - 2.8	3 GHz	
Result: Pass	<b>Value:</b> ≤ -30 dBm	<b>Limit:</b> ≤ -13 dBm	



PassValue: $\leq$ -30 dBmLimit: $\leq$ -13 dBm	

莱	<b>Agilent</b> 08:49:21         26 Mar         2007         R         T										
Ref	30	dBm		#At	ten 20 di	В					
Pea Log	k										
10 dB/											
0ffs 21.6 dB	it ò										
V1 53	S2 EC	alaha sadi tarahati	Adden antonation	in the statistic state	in a state and the state of the	a natat ka data	delately unstande		and the second state		atest hop to start
	AA										
Stan #Re	rt 2 s B	2.795 GHz W 100 kH	z		#	VBW 300	kHz	S	weep 176	Stop 5.6 ms (81	4.5 GHz .92 pts)

	GSM, Low Channel,	4.495 - 6 GHz	
Result: Pass	<b>Value:</b> ≤ -30 dE	Im Limit:	≤ -13 dBm



		GSM, Low (	Channel, 5.995 - 7.5 GHz		
Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm

莱	★ Agilent 08:55:09 26 Mar 2007 R T										
Ref	30	dBm		#At	ten 20 df	3					
Pea Log	k										
10 dB7	,										
0ffs 21.0	st }										
dB											
V1	\$2 50	en ann bil main a <b>th</b>	المراد المراجع المراجع	واسريا فالفر مركزتهما	hat doob we not the	ومراجع والمتحافظ والمحاد	والمعالمة والمعالمة والمعالمة	معبدالعارية إريان	use-distributed be	len-enside ester	den selenitere
55	AA			Line and third, but you				(d.) and bard dependence	<u></u>		
Stai #Re	rt 5 s B	5.995 GHz W 100 <u>k</u> H	z		#	VBW 30 <u>0</u>	kHz	<b>#</b> S	weep 1 <u>55</u>	Stop 5.9 ms (81	7.5 GHz .92 pts)

	GSM, Low	Channel, 7.495 - 9 GHz		
Result: Pas	s Value:	≤ -30 dBm	Limit:	≤ -13 dBm



		GSM, M	id Channel, In Band		
Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm

🔆 🔆 Ag	jilent	08	3:33:33	26 Mar 20	07				RT		
Ref 30	dBn	ń		#At	ten 20 df	3					
Peak Log											
10 dB/	Í										
Offst 21.6											
dB											
V1 S2 S3 EC		L.	haddillia tau filigta	the photology of the second states	anna an tha tha ann an tha	and a literation of the state of t	(n. 1660) al marca	all the second designs.	antiples in the second	udanus kostali, ks. B	-
ÂĂ						uliu ing nabu a dan und	and the second			n a fini e de ji a cata e estante e	
Start & #Res B	868   W 10	MHz )0 k <u>H</u>	z		#	VBW 30 <u>0  </u>	kHz	S	weep <u>81</u>	Stop 91 ms <u>(81</u>	895 MHz 192 pts <u>)</u>

Result: Pass

# **Spurious Conducted Emissions**

≤ -13 dBm

Result:         Pass         Value:         ≤ -30 dBm         Limit:         ≤ -13 dBm	



GSM, Mid Ch	annel, 995 MHz - 2.8 GHz	
Value:	≤ -30 dBm	Limit:

🔆 👫 Ag	jilent 0:	9:02:18 2	26 Mar 20	107			l	RT		
Ref 30	dBm		#At	ten 20 di	3					
Peak Log										
10 dB/										
Offst 21.6										
ав										
V1 S2 S3 FC	ter hertike ji	a beta biri inte		n an that an		n a stallen blet blev	teatha diadan			
AA										
Stort (										2 8 CH-
#Res B	SW 100 kH	lz		#	VBW 300 I	kHz	#	Sweep 1	87 ms (81	.92 pts)

		GSM, Mid	Channel, 2.795 - 4.5 GHz		
Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm



	GSM, Mid Channel, 4.495 - 6 GH:	Ζ
Result: Pass	<b>Value:</b> ≤ -30 dBm	<b>Limit:</b> ≤ -13 dBm

莱	Ag	jilent 0:	9:05:50	26 Mar 20	107			I	RT		
Ref	30	dBm		#At	ten 20 dB						
Pea Loa	k										
10											
dB/ Off≲	:t										
21.0	6										
uD											
V1	<u>\$2</u>										
S3	FC AA					en her til tek te		a della se della se della			
Stan #Re	rt∠ s B	4.495 GH: ₩ 100 kH	 Z   7		#!	/BW 300	kHz	#S	ween 155	Sto 5.9 ms (81	ip 6 GHz 92 nts)
	- L	11 200 M							100p 100		0E p(3)

		GSM, Mid C	Channel, 5.995 - 7.5 GHz		
Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm



		GSM, Mid	Channel, 7.495 - 9 GHz		
Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm

🔆 🔆 Ag	jilent 09	9:08:30	26 Mar 20	07				RT		
Ref 30	∣dBm		#At	ten 20 df	3					
Peak Log										
10 dB/										
0ffst 21.6										
dВ										
V1 S2 S3 EC	Avelabilities	والمعربة والمراد		the desident of the sta	entres groces fest stiften.	a birana an tagi taga tig		latio, et duible	Hill Harden and D	an an tanka ka ka
ÂA										
Start 7 #Res B	7.495 GHz WW 100 kH	z		#	VBW 300 I	kHz	<b>#</b> S	weep 155	Stc 5.9 ms (81	p 9 GHz 92 pts)

Result:

GSI	M, High Channel, In Band		
Result: Pass Valu	<b>ue:</b> ≤ -30 dBm	Limit:	≤ -13 dBm



	GSM, Hig	gh Channel, 0 - 1 GHz		
Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm

₩ A	gilent 0:	9:14:48	26 Mar 20	07				RT		
Ref 30	∂dBm		#At	ten 20 df	3					
Peak										
10 10 dB/										
Offst 21.6 dB										
V1 S2 S3 EC	Harvet kiel bilderen	In the other model in the	. In contraction of		dir en débit travil : e	denskie entrekt	ihehilen ette L	a na da tan ati		et di di sen la setti
ÂF	i propiosi se da la del									
Start #Res[	0 Hz 3W 100 kH	Iz		#!	VBW 300 I	kНz	<b>#</b> S	weep 103	Sto 8.6 ms (81	op 1 GHz 192 pts)

Result: Pass

# **Spurious Conducted Emissions**

		GSM, High (	Channel, 995 MHz - 2.8 GH:	Z	
Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm

ef 30 dl	3m		#Ĥt	ten 20 di	B					
еак										
0 B/										
ffst 1.6										
1 32  3 FC	i ab bibl <sub>ent</sub> i	In Husen a first standing	la han ta tala ha an	and state with the	h and the	durie de stilletet	dan din satu diti	a han han at	i di kata	
ĂĂ										
tart 995	MHz							.^ 1	Stop	2.8 GI

GSM, High Channel, 2.795 - 4.5 GHz **Value:** ≤ -30 dBm

Limit:	≤ -13 dBm	

* A	gilent 0	9:18:12	26 Mar 20	107				RT		
Ref 30	) dBm		#At	ten 20 df	3					
Peak Log										
10 dB/										
0ffst 21.6										
dB										
V1 S2 S3 FC	atala pertakan kati		an ta baha dina ba				un di shaha a lata	Handhat balan da baba	Na se di Unitedat	al na da na da sà
AA										
Start : #Res E	2.795 GH: 3W 100 kH	z Iz		#	VBW 300 I	kHz	S	weep 176	Stop 6.6 ms (81	4.5 GHz .92 pts)

	GSM, High	Channel, 4.495 - 6 GHz		
Result: Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm



		GSM, High (	Channel, 5.995 - 7.5 GHz		
Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm

🔆 👫 Ag	jilent 09	9:21:24 2	26 Mar 20	07				RT		
Ref 30	∣dBm		#At	ten 20 df	3					
Peak										
10 dB/										
0ffst 21.6										
aв										
V1 S2 S3 EC	المرينا وقروق والعطور	and dynamical d	- Des Des des sestiges	i poli estili e politike e	undun digeda	n kontri kan kontrina		. In the star of the	u selde herdd	ik forstaak tooriak o
ÂĂ	An Anda Interior					iler, october Mulfer				
Start 5 #Res B	5.995 GHz WW 100 kH	z		#	VBW 300	kHz	<b>#</b> S	weep 155	Stop 5.9 ms (81	7.5 GHz .92 pts)

	GSM, High	Channel, 7.495 - 9 GHz		
Result: Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm



	GPRS, Low Channel, In Band	
Result: Pass	<b>Value:</b> ≤ -30 dBm	<b>Limit:</b> ≤ -13 dBm

🔆 🔆 Ag	jilen	t 0:	9:48:55	26 Mar 20	07				RT		
Ref 30	l dB	m		#At	ten 20 df	3					
Peak Log											
10 dB/		N									
Offst 21.6											
dB											
V1 S2 S3 FC	./		the states	d in the second second	tudionskihle off. og	kilenti dentinen attata	alu ka dha tana	h Tulom tiki biot	i an an air an airtean an airtean an a	tak, its interaction	peter peter belog i sobier
ÂÂ							است حکار و ایمامان کار			for a second	
Start & #Res B	368 3W 1	MHz 00 kH	Iz		#	VBW 300	kНz	#S	weep 81.	Stop 91 ms (81	895 MHz .92 pts)
	_										

Result: Pass Value: ≤ -30 dBm Limit: ≤ -13 dBm	



	GPRS, Low Channel, 995 MHz - 2.8 (	GHz	
Result: Pass	<b>Value:</b> ≤ -30 dBm	Limit:	≤ -13 dBm

🔆 🔆 Ag	jilent (	09:56:02	26 Mar 20	07				RT		
Ref 30	dBm		#At	ten 20 di	В					
Peak Ling										
10 dB/										
Offst 21.6 dB										
uD										
V1 S2				day Marcallan and	and an Unit of the State	and the second second	descent the fall and the	t sine di tale tan habitat	a alatana dina tari	فالأصادية فردا الانتقاد
S3 FC AA			<u> </u>							
Start S #Res B	995 MHz W 100 k	:Hz		#	VBW 300	kHz	+	≠Sweep_1	Stop 87 ms (81	2.8 GHz .92 pts)

Result: Pass Value: ≤ -30 dBm Limit: ≤ -13 dBm			GPRS, Low	Channel, 2.795 - 4.5 GHz		
	Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm



		GPRS, Low	<sup>,</sup> Channel, 4.495 - 6 GHz		
Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm

米	₩ Agilent         09:57:36         26 Mar         2007         R         T										
Ref 30 dBm #Atten 20 dB											
Peak											
10 10 dB/											
0ffst 21.6	t										
uD											
V1 ( 33 E	32 50	. La capatra Mogelia ca		والالتراجي والتروي	و و المراجع الم	and the distance in the second	والمتعارفة	والمحادية أطعر لمظلم	و منابعة منابع م	فعروبه والمعرفة	م الم المُ
F	ìΑ	, <u>1997</u> , 19977, 1997, 1997, 1997, 1997, 1997, 19977, 1997, 1997, 1997, 1997, 1997, 1997, 19977, 1997, 19977					an a				allan bina mining bina p
Star #Res	t4 B	.495 GHz W 100 kH	z		#!	VBW 300	kHz	<b>#</b> S	weep 155	Stc 5.9 ms (81	p 6 GHz .92 pts)

Result:         Pass         Value:         ≤ -30 dBm         Limit:         ≤ -13 dBm			GPRS, Low	Channel, 5.995 - 7.5 GHz		
	Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm



		GPRS, Low	Channel, 7.495 - 9 GHz		
Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm

🔆 🔆 Aç	₩ Agilent         10:02:36         26 Mar         2007         R         T									
Ref 30	∣dBm		#At	itten 20 dB						
Peak Log										
10 dB/										
Offst 21.6										
ав										
V1 S2 S3 FC		ulu, put te te			n da da ser da	d terre di ca bal	h de set en stellen.	a kala ya kaka k		u sa ka sa asiran
AA										
Start 7 #Res B	7.495 GHz 3W 100 k⊦	z Iz		#	VBW 300 I	кНz	<b>#</b> \$	weep 155	Stc i.9 ms (81	p 9 GHz .92 pts)
			GPRS, M	lid Channel, In Band						
--	---------	------	---------	----------------------	--------	-----------				
Result: Pass Value: ≤ -30 dBm Limit: ≤ -13 dBm	Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm				



		GPRS, M	id Channel, 0 - 1 GHz		
Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm

🔆 🔆 Ag	★ Agilent 10:13:49 26 Mar 2007 R T										
Ref 30	dBm		#At	ten 20 df	3						
Peak											
10 10 dB/											
Offst 21.6 ⊿B											
uD											
V1 S2 S3 EC	the spin by a second state	is a distance of a state of the				, sastanta sa adadi				ala, na mbatan ala	
ÂA	a da ang pangangkan Balan										
Start 0 #Res B	∂ Hz W 100 k⊦	łz		#	VBW 300 I	kHz	#S	weep 103	Sti 3.6 ms (8	op 1 GHz 192 pts)	

### **Spurious Conducted Emissions**

	GPRS, Mid Channel, 995 MHz - 2.8 G	Hz		
Result: Pass	<b>Value:</b> ≤ -30 dBm	Limit:	≤ -13 dBm	



GPRS, Mid Channel, 2.795 - 4.5 GHz Value: ≤ -30 dBm

Limit:	≤ -13 dBm	

∰ <b>A</b> g	<b>☀ Agilent</b> 10:16:38 26 Mar 2007 <b>R T</b>										
Ref 30	) dBm		#At	ten 20 df	3						
Peak Ina											
10 dB/											
Offst 21.6											
dВ											
V1 S2 S3 EC	late cost in the	talat kesta atalata	d having the state of the second			digest and and ge	deline della se	ul	natik, dila dara kunapat	and a constant block block	
ÂA									وحجه أطلقه حط لطو وح		
Start 2 #Res E	2.795 GH: 3W 100 kH	z Iz		#	VBW 300	kНz	S	weep 176	Stop 6.6 ms (81	4.5 GHz .92 pts)	

	GPRS, Mid	Channel, 4.495 - 6 GHz		
Result: Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm



		GPRS, Mid Channel, 5.995 - 7.5 GHz			
Result:	Pass	<b>Value:</b> ≤ -30 dBm	Limit:	≤ -13 dBm	

🔆 🔆 🗛	★ Agilent 10:18:35 26 Mar 2007 R T										
Ref 30	dBm		#At	ten 20 df	3						
Peak											
10 10 dB/											
Offst 21.6 JP											
uD											
V1 S2 S3 FC	a sila ti ta isala di ta	and all a second second	deleten son ber	National sciences and a	(k) et al a sub- a sub-	a de caral a ste a al c	a a glasa sa ang kitan	e iki kashiri d	d dimensione sub	lited to be stepted	
ÂÂ	an a			ي من مان ماندين الريانيين. ا	and and shaked a party	a lan sa dhain na na na ha shiri					
Start 5 #Res E	5.995 GHz 3W 100 kH	z		#	VBW 300 I	kHz	<b>#</b> S	weep 155	Stop 5.9 ms (81	7.5 GHz .92 pts)	

	GPRS, Mid Ch	annel, 7.495 - 9 GHz		
Result: Pass	Value: ≤	-30 dBm	Limit:	≤ -13 dBm



	GPRS, High Channel, In Band	
Result: Pass	<b>Value:</b> ≤ -30 dBm	<b>Limit:</b> ≤ -13 dBm

🔆 Ag	jilent 10	0:21:15 2	26 Mar 20	107				RT			
Ref 30	dBm		#At	ten 20 di	В						
Peak Log											
10 dB/											
Offst 21.6											
dВ											
V1 S2 S3 FC		adata da yikildan y	an an trailen	lese kannationse	t en transformation	a stand (chapter) an	and a fill and the late	a second to a fee			
AA											
Start 8 #Res B	368 MHz 3W 100 kH	łz		#	VBW 300	kHz	#S	weep 81.	Stop 91 ms (81	895 92 p	MHz ots)

	GPRS, High	Channel, 0 - 1 GHz	
Result: Pass	Value: ≤	-30 dBm Limit:	≤ -13 dBm



	GPRS, High Channel, 995 MHz - 2.8 GF	Ηz	
Result: Pass	<b>Value:</b> ≤ -30 dBm	Limit:	≤ -13 dBm

🔆 🔆 Ag	jilent 1	0:23:37	26 Mar 20	007				RT		
Ref 30	∣dBm		#At	ten 20 df	3					
Peak										
LUg 10										
dB/										
Offst 21 6										
dB										
V1 S2 S3 EC		asia hausila sula	a phone in a start		un de la continue	at de la cuitine a	ten heten auffre	Heat Street Street	a da da da se da da	
ÂA	(advertise of the second	and the select designed	al hus sufficients							
Start S #Res B	095 MHz W 100 k⊦	lz		#	VBW 300	kHz	+	⊧Sweep 1	Stop 87 ms (81	2.8 GHz .92 pts)

	GPRS, High Channel, 2.795 - 4.5 G	Hz		
Result: Pass	<b>Value:</b> ≤ -30 dBm	Limit:	≤ -13 dBm	

Peak										
.og a										
в/ I										
ffst 1.6										
В										
1 \$2	فعلله وسرأوس وروا	h ha hill a har an hill and	an Marida and Participants	a tida ta data dina anda ata a	na fan searchara	-	aluquitik a. sula	والمحير أورا ألأأ أرتب	L all that to taken to	a at an he alter
3 FC AA				int the set of the part of	<b></b>	1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 -	<u> </u>			
) Start 2	.795 GHz	<u></u>							Stop	4.5 G

		GPRS, High	n Channel, 4.495 - 6 GHz		
Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm

** A	Agilent 10:26:12 26 Mar 2007 R T									
Ref 30	) dBm		#At	ten 20 df	3					
Peak										
10 10 dB/										
Offst 21.6 dB										
4D										
V1 S2 S3 EC	administration of the	u.bkendbale.	elettere i sti di luce de	ling have been blief and second as	وروالي والمراجع	المراجع بالمراجع الم	مغادية ومحاط	المرواد والمراجع الم	te at the lateral states were	
ÂA			ان میں ایم و میں کا کا ان اور	Plateis läs som dit de t		inter stands og s	and the set of the second set of	in server, in dealer and the		de da minada antendaria.
Start #Res E	Start 4.495 GHz									

Result: Pass Value: ≤ -30 dBm Limit: ≤ -13 dBm			GPRS, High	Channel, 5.995 - 7.5 GHz		
	Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm



		GPRS, High	h Channel, 7.495 - 9 GHz		
Result:	Pass	Value:	≤ -30 dBm	Limit:	≤ -13 dBm

🔆 👫 Aç	₭ Agilent 10:28:22 26 Mar 2007 R T									
Ref 30	dBm		#At	ten 20 df	3					
Peak Log										
10 dB/										
Offst 21.6										
dB										
V1 S2 S3 FC		desta de setembre		i te dite de la tel de la	a dita data a data	, stá a típ á nu s kin	an a fille stale of	i ta da antina	in statistica and a second	u teri e sti la de t
ÂÂ										
Start 7 #Res B	Start 7.495 GHz									









Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

Manufacturer	Model	ID	Last Cal.	Interval
Pasternack	PE7005-20	AUN	2/6/2007	13
Agilent	E4407B	AAU	12/8/2006	13
	Manufacturer Pasternack Agilent	ManufacturerModelPasternackPE7005-20AgilentE4407B	ManufacturerModelIDPasternackPE7005-20AUNAgilentE4407BAAU	ManufacturerModelIDLast Cal.PasternackPE7005-20AUN2/6/2007AgilentE4407BAAU12/8/2006

#### MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

#### TEST DESCRIPTION

The antenna port spurious emissions were measured at the RF output terminal of the EUT with 20dB of external attenuation on the RF input of the spectrum analyzer. Analyzer plots utilizing a 1MHz resolution bandwidth and no video filtering were made for each modulation type from 0 to 20 GHz. The peak conducted power of spurious emissions, up to the 10<sup>th</sup> harmonic of the transmit frequency, were investigated to ensure they were less than or equal to –13 dBm.

Link         Work Order:         RAFN0003           Serie Munder:         Inguineering Unit         Interview 1000         Interview 10000         Interview 1000         Inte		Spur	ious Conducted Emissions		XMit 2006.11.13
Serial Number         Engineering Unit         Date         Date <thdate< th=""> <thdate< th=""> <thdate< th="">         Dat</thdate<></thdate<></thdate<>		S BTS GSM Base Station		Work Order:	
Castomic Religionary Networks, Inc.         Temperature 22*C           Project: None         Barometric Pres. 22.91           Tested by [Greg Kismel         Power [120VAC/R0Hz         Jos Site] EV06           EST SPECIFICATIONS         Test Method         CC 24E:2005           COMMENTS         ANSVITAEIA-003.B-2002         ANSVITAEIA-003.B-2002           COMMENTS         Signature         ANSVITAEIA-003.B-2002           Configuration #         1         Signature         Signature           EVATIONS FROM TEST STANDARD         Signature	Serial Number	Engineering Unit		Date:	03/26/07
Attondess         Dev Metholmer         Hundlity:         39:5           Project:         None         Barometric Press:         29:31           Tested by:         Greg Kinnel         Job Site;         EV06           Stated by:         Greg Kinnel         Job Site;         EV06           CC 24::2005         ANSUTIALEIA 4003-B-2002         Job Site;         EV06           Statimum Output Power         EVATIONS         Test Method         Results           SSM         Value         Limit         Results           SSM         I.ow Channel         : 2.26 dBm         : 1.3 dBm         Pass           in Band         : 2.26 dBm         : 1.3 dBm         Pass         : 1.3 dBm         Pass           3.995 - 10 dHz         : 2.26 dBm         : 1.3 dBm         Pass         : 1.3 dBm         Pass           Mid Channel         : 2.26 dBm         : 1.3 dBm         Pass         : 2.26 dBm         : 1.3 dBm         Pass           0.2.8 dHz         : 2.26 dBm         : 1.3 dBm         Pass         : 2.26 dBm         : 1.3 dBm         Pass           0.2.8 dHz         : 2.26 dBm         : 1.3 dBm         Pass         : 2.26 dBm         : 1.3 dBm         Pass           0.2.8 dHz         : 2.26 dBm </td <td>Customer</td> <td>Radioframe Networks, Inc.</td> <td></td> <td>Temperature:</td> <td>22°C</td>	Customer	Radioframe Networks, Inc.		Temperature:	22°C
Project None         Baromstric Pres. 29.91           Tested by/Greg Kimel         Power [120VAC/60H:         Job Site [EV66           EST SPECIFICATIONS         Fest Method         CCC           CC 24E:2005         ANS/ITA/EIA-603-8-2002         ANS/ITA/EIA-603-8-2002           Sommer         Signature         Value         Limit           Results         Signature         Value         Limit           Signature         Value         Limit         Results           SM         Low Channel         < 25 dBm	Attendees	Boh Melsheimer		Humidity:	33%
Tested by/Greg Kinnel         Power (120/AC/60Hz         Job Site; EV/6           C5 39ECIFCATONS         Test Mehd         Job Site; EV/6           CC 24E:2005         ANS/ITA/EIA-603-8-2002         ANS/ITA/EIA-603-8-2002           COMMENTS         Job Site; EV/6         State Common Commo	Project	None		Barometric Pres.:	29.91
Low Channel         Value         Limit         Results           Sommun         1         Signature         Value         Limit         Results           Statistical         5.25 cdbm         S-13 dbm         Pass         Signature         Signature           Statistical         5.25 cdbm         S-13 dbm         Pass         Signature	Tested by	Greg Kiemel	Power: 120VAC/60Hz	Joh Site:	EV06
ANSITUREIA-803-B-2002           COMMENTS           Issumum Output Power           EVATIONS FROM TEST STANDARD           Sonfiguration #         1           Signature         Value         Limit         Results           Sonfiguration #         1         Signature         Value         Limit         Results           Signature         Value         Limit         Results         Signature           Signature         Signature         Value         Limit         Results           Signature         Signature         Signature         Signature         Signature           In Band         Cold         Signatititititititititititititititititititi	TEST SPECIFICAT	TIONS	Test Method		2100
Softweet           Softweet           Low Channel           Low Channel           Low Channel           1         Signature           SSM           Low Channel           1         Band           0         2.25 GBm           2.755         9 GHz           2.755         9 GHz <t< td=""><td>CC 24E:2005</td><td></td><td>ANSI/TIA/EIA-603-B-2002</td><td></td><td></td></t<>	CC 24E:2005		ANSI/TIA/EIA-603-B-2002		
COMMENTS					
Iteration #         1         Signature           Value         Limit         Results           Value         Value         Limit         Results           Value         Side           Low Channel         Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"           Mid Channel         S           Mid Channel         S           In Band         S         Colspan= Colspan="2"           In Band         S         Colspan= Colspan= Colspan="2"           In Band         S         Colspan= Colspan= Colspan="2"           In Band         S         Colspan= Colspa         Colspan= Colspan= Colspa	COMMENTS	-			
Jointiguration #         1         Jump Figuration           SSM         Value         Limit         Results           SSM          -25 dBm         <13 dBm	Maximum Output	Power			
Image: Signature         North         Signature         Value         Limit         Results           SSM          < 25 dBm	DEVIATIONS FRO	M TEST STANDARD			
I         Signature         Value         Linit         Results           SM         -2.8 GHz         -2.5 dBm         5-13 dBm         Pass           0 - 2.8 GHz         5.25 dBm         5-13 dBm         Pass           0 - 2.8 GHz         5.25 dBm         5-13 dBm         Pass           2.755 - 9 GHz         5.25 dBm         5-13 dBm         Pass           8.995 - 14 GHz         5.25 dBm         5-13 dBm         Pass           9.995 - 14 GHz         5.25 dBm         5-13 dBm         Pass           0 - 2.8 GHz         5.25 dBm         5-13 dBm         Pass           0 - 2.8 GHz         5.25 dBm         5-13 dBm         Pass           2.755 - 9 GHz         5.25 dBm         5-13 dBm         Pass           2.755 - 9 GHz         5.25 dBm         5-13 dBm         Pass           8.995 - 14 GHz         5.25 dBm         5-13 dBm         Pass           13 995 - 20 GHz         5.25 dBm         5-13 dBm         Pass           High Channel         -2.26 dBm         5.13 dBm         Pass           0 - 2.8 GHz         5.25 dBm         5.13 dBm         Pass           8.995 - 14 GHz         5.25 dBm         5.13 dBm         Pass           9.99 CHz					
Value         Limit         Results           ISM         - 2.8 GHz         - 2.5 GBm         - 1.3 GBm         Pass           0 2.8 GHz         - 2.5 GBm         - 1.3 GBm         Pass           2.795 - 9 GHz         - 2.5 GBm         - 1.3 GBm         Pass           8.995 - 14 GHz         - 2.5 GBm         - 1.3 GBm         Pass           8.995 - 14 GHz         - 2.5 GBm         - 1.3 GBm         Pass           Mid Channel         - 2.2 GBm         - 1.3 GBm         Pass           0 2.8 GHz         - 2.5 GBm         - 1.3 GBm         Pass           2.795 - 9 GHz         - 2.5 GBm         - 1.3 GBm         Pass           8.995 - 14 GHz         - 2.5 GBm         - 1.3 GBm         Pass           8.995 - 14 GHz         - 2.5 GBm         - 1.3 GBm         Pass           8.995 - 14 GHz         - 2.5 GBm         - 1.3 GBm         Pass           13.995 - 20 GHz         - 2.5 GBm         - 1.3 GBm         Pass           2.795 - 9 GHz         - 2.5 GBm         - 1.3 GBm         Pass           3.995 - 1.4 GHz         - 2.5 GBm         - 1.3 GBm         Pass           1.995 - 20 GHz         - 2.5 GBm         - 1.3 GBm         Pass           1.995 - 20 GHz	Configuration #	1 Si	ignature		
Low Channel             In Band         5 - 25 dBm         5 - 13 dBm         Pass           2.795 - 9 GHz         5 - 25 dBm         5 - 13 dBm         Pass           8.995 - 14 GHz         5 - 25 dBm         5 - 13 dBm         Pass           8.995 - 14 GHz         5 - 25 dBm         5 - 13 dBm         Pass           8.995 - 14 GHz         5 - 25 dBm         5 - 13 dBm         Pass           13.995 - 20 GHz         5 - 25 dBm         5 - 13 dBm         Pass           0 - 2.8 GHz         5 - 25 dBm         5 - 13 dBm         Pass           3.995 - 14 GHz         5 - 25 dBm         5 - 13 dBm         Pass           8.995 - 14 GHz         5 - 25 dBm         5 - 13 dBm         Pass           13.995 - 20 GHz         5 - 25 dBm         5 - 13 dBm         Pass           13.995 - 20 GHz         5 - 25 dBm         5 - 13 dBm         Pass           2.795 - 9 GHz         5 - 25 dBm         5 - 13 dBm         Pass           3.995 - 14 GHz         5 - 25 dBm         5 - 13 dBm         Pass           3.995 - 20 GHz         5 - 25 dBm         5 - 13 dBm         Pass           3.995 - 20 GHz         5 - 25 dBm         5 - 13 dBm         Pass           2.795 - 9 GHz			Va	lue Li	mit Results
Low Channel         U           In Band         5 - 25 dBm         5 - 13 dBm         Pass           0 - 2.8 GHz         5 - 25 dBm         5 - 13 dBm         Pass           8 995 - 14 GHz         5 - 25 dBm         5 - 13 dBm         Pass           13 3995 - 20 GHz         5 - 25 dBm         5 - 13 dBm         Pass           13 3995 - 20 GHz         5 - 25 dBm         5 - 13 dBm         Pass           2.795 - 9 GHz         5 - 25 dBm         5 - 13 dBm         Pass           2.795 - 9 GHz         5 - 25 dBm         5 - 13 dBm         Pass           2.795 - 9 GHz         5 - 25 dBm         5 - 13 dBm         Pass           3.995 - 14 GHz         5 - 25 dBm         5 - 13 dBm         Pass           13.995 - 20 GHz         5 - 25 dBm         5 - 13 dBm         Pass           2.795 - 9 GHz         5 - 25 dBm         5 - 13 dBm         Pass           3.995 - 14 GHz         5 - 25 dBm         5 - 13 dBm         Pass           2.795 - 9 GHz         5 - 25 dBm         5 - 13 dBm         Pass           3.995 - 20 GHz         5 - 25 dBm         5 - 13 dBm         Pass           2.795 - 9 GHz         5 - 25 dBm         5 - 13 dBm         Pass           3.995 - 20 GHz	GSM				
In Band       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         Mid Channel       5 - 25 dBm       5 - 13 dBm       Pass         0 - 2.8 GHz       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         8.995 - 14 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         9.925 - 14 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         9.925 - 14 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         9.925 - 14 GHz       5 - 25 dBm       5 - 13 dBm       Pass </td <td></td> <td>Low Channel</td> <td></td> <td></td> <td></td>		Low Channel			
0       2.8 GHz       5.25 dBm       5.13 dBm       Pass         2.795 - 9 GHz       5.25 dBm       5.13 dBm       Pass         13.995 - 20 GHz       5.25 dBm       5.13 dBm       Pass         Mid Channel       5.25 dBm       5.13 dBm       Pass         Mid Channel       5.25 dBm       5.13 dBm       Pass         2.795 - 9 GHz       5.25 dBm       5.13 dBm       Pass         2.795 - 9 GHz       5.25 dBm       5.13 dBm       Pass         3.995 - 10 GHz       5.25 dBm       5.13 dBm       Pass         3.995 - 20 GHz       5.25 dBm       5.13 dBm       Pass         3.995 - 20 GHz       5.25 dBm       5.13 dBm       Pass         3.995 - 20 GHz       5.25 dBm       5.13 dBm       Pass         3.995 - 14 GHz       5.25 dBm       5.13 dBm       Pass         2.795 - 9 GHz       5.25 dBm       5.13 dBm       Pass         3.995 - 14 GHz       5.25 dBm       5.13 dBm       Pass         3.995 - 14 GHz       5.25 dBm       5.13 dBm       Pass         3.995 - 14 GHz       5.25 dBm       5.13 dBm       Pass         3.995 - 14 GHz       5.25 dBm       5.13 dBm       Pass         3.995 - 14 GHz		In Band	≤ -25	idBm ≤-13	dBm Pass
2.795 - 9 GHz       5-26 dBm       5-13 dBm       Pass         13.995 - 12 GHz       5-26 dBm       5-13 dBm       Pass         Mid Channel       5-26 dBm       5-13 dBm       Pass         0 - 2.8 GHz       5-26 dBm       5-13 dBm       Pass         0 - 2.8 GHz       5-26 dBm       5-13 dBm       Pass         2.795 - 9 GHz       5-26 dBm       5-13 dBm       Pass         8.995 - 14 GHz       5-26 dBm       5-13 dBm       Pass         13.995 - 20 GHz       5-26 dBm       5-13 dBm       Pass         13.995 - 20 GHz       5-26 dBm       5-13 dBm       Pass         0 - 2.8 GHz       5-26 dBm       5-13 dBm       Pass         2.795 - 9 GHz       5-26 dBm       5-13 dBm       Pass         2.795 - 9 GHz       5-26 dBm       5-13 dBm       Pass         3.995 - 20 GHz       5-26 dBm       5-13 dBm       Pass         3.995 - 20 GHz       5-26 dBm       5-13 dBm       Pass         3.995 - 20 GHz       5-26 dBm       5-13 dBm       Pass         3.995 - 20 GHz       5-26 dBm       5-13 dBm       Pass         3.995 - 20 GHz       5-26 dBm       5-13 dBm       Pass         3.995 - 20 GHz       5-26 dBm<		0 - 2.8 GHz	≤ -25	idBm ≤-13	dBm Pass
8.995 - 14 GHz       5 - 25 dBm       5 - 13 dBm       Pass         Mid Channel       5 - 25 dBm       5 - 13 dBm       Pass         In Band       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         3.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         3.995 - 14 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         0 - 2.8 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       P		2.795 - 9 GHz	≤ -25	idBm ≤-13	dBm Pass
13.995 - 20 GHz         5 - 33 dBm         Pass           Mid Channel         -		8.995 - 14 GHz	≤ -25	idBm ≤-13	dBm Pass
Mid Channel         Served         Se		13.995 - 20 GHz	≤ -25	idBm ≤-13	dBm Pass
In Band       5.25 dBm       5.13 dBm       Pass         2.795 · 9 GHz       5.25 dBm       5.13 dBm       Pass         8.995 · 14 GHz       5.25 dBm       5.13 dBm       Pass         13.995 · 20 GHz       5.25 dBm       5.13 dBm       Pass         High Channel       5.25 dBm       5.13 dBm       Pass         0.2.8 GHz       5.25 dBm       5.13 dBm       Pass         0.2.8 GHz       5.25 dBm       5.13 dBm       Pass         0.2.8 GHz       5.25 dBm       5.13 dBm       Pass         0.72.8 GHz       5.25 dBm       5.13 dBm       Pass         2.795 · 9 GHz       5.25 dBm       5.13 dBm       Pass         1.995 · 20 GHz       5.25 dBm       5.13 dBm       Pass         2.795 · 9 GHz       5.25 dBm       5.13 dBm       Pass         2.795 · 9 GHz       5.25 dBm       5.13 dBm       Pass         2.795 · 9 GHz       5.25 dBm       5.13 dBm       Pass         2.795 · 9 GHz       5.25 dBm       5.13 dBm       Pass         2.795 · 9 GHz       5.25 dBm       5.13 dBm       Pass         2.795 · 9 GHz       5.25 dBm       5.13 dBm       Pass         2.795 · 9 GHz       5.25 dBm       5.13 dBm		Mid Channel			
0 - 2.8 GHz       \$ -25 dBm       \$ -13 dBm       Pass         2.795 - 9 GHz       \$ -25 dBm       \$ -13 dBm       Pass         3.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         1.3995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         0 - 2.8 GHz       \$ -25 dBm       \$ -13 dBm       Pass         0 - 2.8 GHz       \$ -25 dBm       \$ -13 dBm       Pass         2.795 - 9 GHz       \$ -25 dBm       \$ -13 dBm       Pass         8.995 - 14 GHz       \$ -25 dBm       \$ -13 dBm       Pass         8.995 - 14 GHz       \$ -25 dBm       \$ -13 dBm       Pass         9.995 - 30 GHz       \$ -25 dBm       \$ -13 dBm       Pass         9.995 - 14 GHz       \$ -25 dBm       \$ -13 dBm       Pass         9.995 - 14 GHz       \$ -25 dBm       \$ -13 dBm       Pass         9.26 GHz       \$ -25 dBm       \$ -13 dBm       Pass         9.26 GHz       \$ -25 dBm       \$ -13 dBm       Pass         9.995 - 14 GHz       \$ -25 dBm       \$ -13 dBm       Pass         9.995 - 14 GHz       \$ -25 dBm       \$ -13 dBm       Pass         9.995 - 14 GHz       \$ -25 dBm       \$ -13 dBm       Pass         9.995 - 14 GHz		In Band	≤ -25	idBm ≤-13	dBm Pass
2.795 - 9 GHz       \$ -25 dBm       \$ -13 dBm       Pass         8.995 - 10 GHz       \$ -25 dBm       \$ -13 dBm       Pass         13.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         In Band       \$ -25 dBm       \$ -13 dBm       Pass         0 - 2.8 GHz       \$ -25 dBm       \$ -13 dBm       Pass         2.795 - 9 GHz       \$ -25 dBm       \$ -13 dBm       Pass         2.795 - 9 GHz       \$ -25 dBm       \$ -13 dBm       Pass         3.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         3.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         3.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         0 - 2.8 GHz       \$ -25 dBm       \$ -13 dBm       Pass         0 - 2.8 GHz       \$ -25 dBm       \$ -13 dBm       Pass         3.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         3.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         3.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         3.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         3.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         3.995 - 20		0 - 2.8 GHz	≤ -25	idBm ≤-13	3 dBm Pass
8.995 - 14 GHz       \$ -25 dBm       \$ -13 dBm       Pass         13.905 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         0 - 2.8 GHz       \$ -25 dBm       \$ -13 dBm       Pass         0 - 2.8 GHz       \$ -25 dBm       \$ -13 dBm       Pass         8.995 - 14 GHz       \$ -25 dBm       \$ -13 dBm       Pass         2.795 - 9 GHz       \$ -25 dBm       \$ -13 dBm       Pass         8.995 - 14 GHz       \$ -25 dBm       \$ -13 dBm       Pass         8.995 - 14 GHz       \$ -25 dBm       \$ -13 dBm       Pass         9.995       \$ -25 dBm       \$ -13 dBm       Pass         9.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         0 - 2.8 GHz       \$ -25 dBm       \$ -13 dBm       Pass         13.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         13.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         13.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         13.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass         0 - 2.8 GHz       \$ -25 dBm       \$ -13 dBm       Pass         2.795 - 9 GHz       \$ -25 dBm       \$ -13 dBm       Pass         9.995 - 14		2.795 - 9 GHz	≤ -25	idBm ≤-13	dBm Pass
13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         Hgh Channel       5 - 25 dBm       5 - 13 dBm       Pass         0 - 2.8 GHz       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         8.995 - 14 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         3.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         3.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         3.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         3.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         3.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         3.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         3.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass		8.995 - 14 GHz	≤ -25	idBm ≤-13	dBm Pass
High Channel       < 2.25 dBm		13.995 - 20 GHz	≤ -25	idBm ≤-13	dBm Pass
In Band         ≤ -25 dBm         ≤ -13 dBm         Pass           0 2.8 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           2.796 - 9 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           8.995 - 14 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           13.995 - 20 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           3.995 - 20 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           3.995 - 20 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           2.795 - 9 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           2.795 - 9 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           3.995 - 20 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           3.995 - 20 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           3.995 - 20 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           3.995 - 20 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           3.995 - 20 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           3.995 - 20 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass           3.995 - 20 GHz         ≤ -25 dBm         ≤ -13 dBm         Pass <t< td=""><td></td><td>High Channel</td><td></td><td></td><td></td></t<>		High Channel			
0 - 2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         8.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         PRS        < -13 dBm		In Band	≤ -25	idBm ≤-13	dBm Pass
2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         8.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         SPRS       In Band       ≤ -25 dBm       ≤ -13 dBm       Pass         0.2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         0.2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         0.2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         0.2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         0.2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         0.		0 - 2.8 GHz	≤ -25	idBm ≤-13	dBm Pass
8.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         SPRS         Low Channel          In Band       ≤ -25 dBm       ≤ -13 dBm       Pass         0 - 2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         0 - 2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13 dBm       2       ≤ -25 dBm       ≤ -13 dBm       Pass <tr< td=""><td></td><td>2 795 - 9 GHz</td><td>&lt; -2F</td><td>dBm ≤ -13</td><td>dBm Pass</td></tr<>		2 795 - 9 GHz	< -2F	dBm ≤ -13	dBm Pass
13.995 - 20 GHz       2 - 25 dBm       4 - 10 dBm       Pass         SPRS       In Band       5 - 25 dBm       5 - 13 dBm       Pass         0 - 2.8 GHz       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         8.995 - 14 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         0 - 2.8 GHz       5 - 25 dBm       5 - 13 dBm       Pass         0 - 2.8 GHz       5 - 25 dBm       5 - 13 dBm       Pass         0 - 2.8 GHz       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         3.995 - 14 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm		8 995 - 14 GHz	< -25 < -25	dBm ≤ -13	dBm Pass
Low Channel <th< th="">           &lt;</th<>		13 995 - 20 GHz	< -25 < -25	dBm ≤ -13	dBm Pass
Low Channel            In Band         < 25 dBm	SPRS	10.000 20 0112			
In Band       ≤ -25 dBm       ≤ -13 dBm       Pass         0 - 2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         Mid Channel       ≤ -25 dBm       ≤ -13 dBm       Pass         0 - 2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 G		Low Channel			
0 - 2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         8.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         Mid Channel       < -25 dBm		In Band	≤ -25	idBm ≤-13	dBm Pass
2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         8.995 - 14 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         Mid Channel       5 - 25 dBm       5 - 13 dBm       Pass         Diagonal       5 - 25 dBm       5 - 13 dBm       Pass         0 - 2.8 GHz       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         8.995 - 14 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         13.995 - 20 GHz       5 - 25 dBm       5 - 13 dBm       Pass         High Channel         In Band       5 - 25 dBm       5 - 13 dBm       Pass         0 - 2.8 GHz       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         2.795 - 9 GHz       5 - 25 dBm       5 - 13 dBm       Pass         3.995 - 14 GHz       5 - 25 dBm       5 - 13 dBm       Pass         3.995 - 20 GHz       5 - 25 dBm <td></td> <td>0 - 2.8 GHz</td> <td>&lt; -2F</td> <td>idBm ≤ -1?</td> <td>dBm Pass</td>		0 - 2.8 GHz	< -2F	idBm ≤ -1?	dBm Pass
Band       2-25 dBm       2-13 dBm       Pass         13.995 - 20 GHz       2-25 dBm       2-13 dBm       Pass         Mid Channel       -25 dBm       2-13 dBm       Pass         In Band       2-25 dBm       2-13 dBm       Pass         0 - 2.8 GHz       2-25 dBm       2-13 dBm       Pass         2.795 - 9 GHz       2-25 dBm       2-13 dBm       Pass         2.795 - 9 GHz       2-25 dBm       2-13 dBm       Pass         3.995 - 14 GHz       2-25 dBm       2-13 dBm       Pass         13.995 - 20 GHz       2-25 dBm       2-13 dBm       Pass         13.995 - 20 GHz       2-25 dBm       2-13 dBm       Pass         2.795 - 9 GHz       2-25 dBm       2-13 dBm       Pass         2.995 - 14 GHz       2-25 dBm       2-13 dBm       Pass         0 - 2.8 GHz       2-25 dBm       2-13 dBm       Pass         2.795 - 9 GHz       2-25 dBm       2-13 dBm       Pass         2.795 - 9 GHz       2-25 dBm       2-13 dBm       Pass         2.795 - 9 GHz       2-25 dBm       2-13 dBm       Pass         3.995 - 14 GHz       2-25 dBm       2-13 dBm       Pass         3.995 - 20 GHz       2-25 dBm       2-		2.795 - 9 GHz	⊆ 20 ≤ -25	dBm ≤-1?	dBm Pass
13.995 - 20 GHz       2 - 25 dBm       2 - 13 dBm       Pass         Mid Channel        -25 dBm       2 - 13 dBm       Pass         0 - 2.8 GHz       2 - 25 dBm       2 - 13 dBm       Pass         2.795 - 9 GHz       2 - 25 dBm       2 - 13 dBm       Pass         3.995 - 14 GHz       2 - 25 dBm       2 - 13 dBm       Pass         13.995 - 20 GHz       2 - 25 dBm       2 - 13 dBm       Pass         3.995 - 20 GHz       2 - 25 dBm       2 - 13 dBm       Pass         13.995 - 20 GHz       2 - 25 dBm       2 - 13 dBm       Pass         0 - 2.8 GHz       2 - 25 dBm       2 - 13 dBm       Pass         0 - 2.8 GHz       2 - 25 dBm       2 - 13 dBm       Pass         0 - 2.8 GHz       2 - 25 dBm       2 - 13 dBm       Pass         2.795 - 9 GHz       2 - 25 dBm       2 - 13 dBm       Pass         2.795 - 9 GHz       2 - 25 dBm       2 - 13 dBm       Pass         2.795 - 9 GHz       2 - 25 dBm       2 - 13 dBm       Pass         3.995 - 14 GHz       2 - 25 dBm       2 - 13 dBm       Pass         3.995 - 20 GHz       2 - 25 dBm       2 - 13 dBm       Pass         13.995 - 20 GHz       2 - 25 dBm       2 - 13 dBm <td< td=""><td></td><td>8 995 - 14 GHz</td><td>&lt;-25</td><td>dBm &lt;-13</td><td>dBm Pass</td></td<>		8 995 - 14 GHz	<-25	dBm <-13	dBm Pass
Mid Channel       2 - 13 dBm       Pass         In Band       ≤ -25 dBm       ≤ -13 dBm       Pass         0 - 2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         8.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         0 - 2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass		13 995 - 20 GHz	<-25	dBm <_13	dBm Pass
In Band       ≤ -25 dBm       ≤ -13 dBm       Pass         0 - 2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         8.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         High Channel       ≤ -25 dBm       ≤ -13 dBm       Pass         0 - 2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         8.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         8.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass		Mid Channel	- 20		
In Dand       2-25 dBm       2-13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         8.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         10 Dand       ≤ -25 dBm       ≤ -13 dBm       Pass         10 Dand       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         3.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass		In Band	<_25	dBm <_13	dBm Pass
2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 10 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         High Channel         In Band       ≤ -25 dBm       ≤ -13 dBm       Pass         0 - 2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         8.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass		0 - 2 8 GHz	2 - 20	dBm < 19	dRm Pace
1/30/5 - 30 GHZ     5 -13 dBm     Pass       8.995 - 14 GHz     5 -25 dBm     5 -13 dBm     Pass       13.995 - 20 GHz     5 -25 dBm     5 -13 dBm     Pass       High Channel       In Band     5 -25 dBm     5 -13 dBm     Pass       0 - 2.8 GHz     5 -25 dBm     5 -13 dBm     Pass       2.795 - 9 GHz     5 -25 dBm     5 -13 dBm     Pass       8.995 - 14 GHz     5 -25 dBm     5 -13 dBm     Pass       13.995 - 20 GHz     5 -25 dBm     5 -13 dBm     Pass       13.995 - 20 GHz     5 -25 dBm     5 -13 dBm     Pass		2 795 _ 0 CH+	- 20	dBm < 19	dBm Daea
13.995 - 20 GHz     \$ -25 dBm     \$ -13 dBm     Pass       High Channel     \$ -25 dBm     \$ -13 dBm     Pass       0 - 2.8 GHz     \$ -25 dBm     \$ -13 dBm     Pass       2.795 - 9 GHz     \$ -25 dBm     \$ -13 dBm     Pass       8.995 - 14 GHz     \$ -25 dBm     \$ -13 dBm     Pass       13.995 - 20 GHz     \$ -25 dBm     \$ -13 dBm     Pass       13.995 - 20 GHz     \$ -25 dBm     \$ -13 dBm     Pass		8 005 - 11 CU-	≥ -20 ∠ 05	dBm < 10	dBm Daea
High Channel     S - 13 dBm     S - 13 dBm     Pass       In Band     ≤ -25 dBm     ≤ -13 dBm     Pass       0 - 2.8 GHz     ≤ -25 dBm     ≤ -13 dBm     Pass       2.795 - 9 GHz     ≤ -25 dBm     ≤ -13 dBm     Pass       8.995 - 14 GHz     ≤ -25 dBm     ≤ -13 dBm     Pass       13.995 - 20 GHz     ≤ -25 dBm     ≤ -13 dBm     Pass		13 005 20 CHz	≥ -20 ∠ 05	dBm < 10	dBm Door
In Band       ≤ -25 dBm       ≤ -13 dBm       Pass         0 - 2.8 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         2.795 - 9 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         8.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass		High Channel	S -20	S - 13	
0     -2.8 GHz     ≤ -25 dBm     ≤ -13 dBm     Pass       2.795 - 9 GHz     ≤ -25 dBm     ≤ -13 dBm     Pass       8.995 - 14 GHz     ≤ -25 dBm     ≤ -13 dBm     Pass       13.995 - 20 GHz     ≤ -25 dBm     ≤ -13 dBm     Pass		In Rand		dBm < 40	dBm Door
0 - 2.0 GHZ     5 - 20 GBM     5 - 13 GBM     Pass       2.795 - 9 GHz     5 - 25 dBm     5 - 13 dBm     Pass       8.995 - 14 GHz     5 - 25 dBm     5 - 13 dBm     Pass       13.995 - 20 GHz     5 - 25 dBm     5 - 13 dBm     Pass			S -20		
2.795 - 9 GHz       \$ -25 dBm       \$ -13 dBm       Pass         8.995 - 14 GHz       \$ -25 dBm       \$ -13 dBm       Pass         13.995 - 20 GHz       \$ -25 dBm       \$ -13 dBm       Pass		U - 2.8 GHZ	≤ -25	ouom ≤-13	Pass
8.995 - 14 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass         13.995 - 20 GHz       ≤ -25 dBm       ≤ -13 dBm       Pass		2.795 - 9 GHz	≤ -25	oasm ≤-13	abm Pass
13.995 - 20 GHz ≤ -25 dBm ≤ -13 dBm Pass		8.995 - 14 GHz	≤ -25	oasm ≤-13	abm Pass
		13.995 - 20 GHz	≤ -25	o aBM ≤ -13	abm Pass

	GSM, Low Channel, In Band		
Result: Pass	<b>Value:</b> ≤ -25 dBm	Limit:	≤ -13 dBm



		GSM, Lov	v Channel, 0 - 2.8 GHz		
Result:	Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm

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Ref 30	∣dBm		#At	ten 20 df	3					
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V1 S2 S3 FC										
AA										
Start ( #Res B	0 Hz 3W 1 MHz				₩VBW 3 M	Hz	#S	weep 81.	Stop 91 ms (81	2.8 GHz 92 pts)

	GSM, Low (	Channel, 2.795 - 9 GHz		
Result: Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm

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fst										
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art 2. Res Bla	795 GH	lz			 #VBW 3 M	Hz	 #S	ween 81.3	Sto 91 ms (81	op 9 G 192 nt

	GSM, Low (	Channel, 8.995 - 14 GHz		
Result: P	ass Value:	≤ -25 dBm	Limit:	≤ -13 dBm

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Start #Res	8.995 BW 1 №	GHz 1Hz				¥VBW 3 M	Hz	<b>#</b> S	weep 81.	Stop 91 ms (81	14 GHz 92 pts)

Result:

		GSM, Low C	hannel, 13.995 - 20 GHz		
Result:	Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm

ef 30 c	dBm		#At	ten 20 di	3					
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L S2 3 FC				ideau ( Juliani	and the second	an aite line and a	te al la time, tracte de car			
AA										
tart 13 Res BW	.99 GHz 1 MHz	2			⊭VBW 3 M	Hz	<b>#</b> S	weep 81.	Stop 91 ms (81	o 20 Gl 192 pt:

	GSM, N	lid Channel, In Band		
Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm

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				and a state state	and the second			14-15-14-14		dee whether
V1 S2 S3 FC										
ÂÂ										
Start 1 #Res B	.925 GH: W 1 MHz	2			#VBW 3 M	Hz	#S	weep 8	Stop 1. 1.91 ms (8	.995 GHz 192 pts)

### **Spurious Conducted Emissions**

		GSM, Mic	l Channel, 0 - 2.8 GHz		
Result:	Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm

🔆 👫 Ag	gilent	11:00:17	26 Mar 20	107				RT		
Ref 30	dBm		#At	ten 20 di	В					
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V1 S2						11		i <u>na distanti kang</u> a sang bat Ba		
SS FC AA										
Start 0 #Res B	∟ 0 Hz 3W 1 M⊦				#VBW 3 M	Hz	#\$	weep 81.	Stop 91 ms (81	2.8 GHz .92 pts)

GSM, Mid Channel, 2.795 - 9 GHz

Value: ≤ -25 dBm

Limit: ≤ -13 dBm

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S3 FC										
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Start 2	2 795 GH	7							Str	n 9 GHz
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## Spurious Conducted Emissions

<b>D</b> esult: Deep $V_{abuse} < 05 dDm $ Limit: $< 10 dDm$		GSM, Mid (	Channel, 8.995 - 14 GHz		
Result: Pass Value: 5-25 dBm Limit: 5-13 dBm	Result: Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm

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V1 S2 S3 FC	. Name ( in other the other the	n , undebeilete ,us								u, and a second s
ÂÂ										
Start 8 #Res B	3.995 GH WW 1 MHz	lz :			₩VBW 3 M	Hz	<b>#</b> S	weep 81.	Stop 91 ms (81	14 GHz .92 pts)

GSM, Mid Channel, 13.995 - 20 GHz Value: ≤ -25 dBm

Limit:	≤ -13 dBm	

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ÂA										
Start 13.99 GHz #Res BW 1 MHz					₩VBW 3 M	Hz	<b>#</b> S	weep 81.	Stop 91 ms (81	20 GHz 92 pts)
C:\\$(	C:\SCREN001.GIF file saved									

Result: Pass Value: ≤ -25 dBm Limit: ≤ -13 dBm			GSM, Hig	gh Channel, In Band		
	Result:	Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm



		GSM, Hig	h Channel, 0 - 2.8 GHz		
Result:	Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm

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V1 S2 S3 FC										
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Start ( #Res B	) Hz W 1 MHz				⊭VBW 3 M	Hz	#Sy	veep 81.	Stop 91 ms (81	2.8 GHz 92 pts)

<b>Popult:</b> Pass Value: $\leq 25$ dPm Limit: $\leq 13$ dPm		inel, 2.795 - 9 GHz	GSM, High (	
	<b>Limit:</b> ≤ -13 dBm	.5 dBm Limit:	Value:	Result: Pass



GSM, High	Channel, 8.995 - 14 GHz		
Value:	≤ -25 dBm	Limit:	≤ -13 dBm

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V1 S2 S3 FC					الانكار كان من من الله الانتقالية						۵ ـ اها <u>و ۵ از مر</u> وا و <u>۱</u>
AA											
Start 8 #Res B	8.995 GH: W 1 MHz	2			₩VBW 3 M	Hz	<b>#</b> S	weep	o 81.	Stop 91 ms (81	14 GHz 92 pts)

#### **Spurious Conducted Emissions**

Result: Pass Value: <-25 dBm Limit: <-13 dBm			GSM, High	Channel, 13.995 - 20 GHz		
	Result:	Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm



GPR Valu

GPRS, Low Channel, In Band Value: ≤ -25 dBm

**Limit:** ≤ -13 dBm



### **Spurious Conducted Emissions**

	GPRS, Lo	w Channel, 0 - 2.8 GHz		
Result: P	ass Value:	≤ -25 dBm	Limit:	≤ -13 dBm

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V1 S2		Child Long statistic	ales, sea debiline	has seen be visit if the left	and the first line of the				
ÂĂ									
Start 0 Hz #Res BW 1 MH				₩VBW 3 M	Hz	#S	weep 81.	Stop 91 ms (81	2.8 GHz 192 pts)

GPRS, Low Channel, 2.795 - 9 GHz Value: ≤ -25 dBm Limit: ≤ -13 dBm

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Start 2́ ≢Res B	2.795 GH: W 1 MHz	Z			#VBW 3 MI	Hz	<b>#</b> S	weep 81.	Sto 91 ms (81	ip 9 GHz .92 pts)

	GPRS, Low Channel, 8.995 -	14 GHz
Result: Pass	<b>Value:</b> ≤ -25 dBm	<b>Limit:</b> ≤ -13 dBm

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V1 S2 S3 FCL	a de se fait de ferre	and the second	a a da balanta da ante da ante		and a state of the second s		an a	الأنم متلغ المريقية والأل		duran air is babai
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Start 8. #Res Bl	.995 GHz √1 MHz				₩VBW 3 M	Hz	<b>#</b> S	weep 81.	Stop 91 ms (81	) 14 GHz .92 pts)

	GPRS, Low Channel, 13.995 - 20 GHz	2	
Result: Pass	<b>Value:</b> ≤ -25 dBm	Limit:	≤ -13 dBm

∦¥ Ag	<b>jilent</b> 17	2:05:46 2	26 Mar 20	107				RT		
Ref 30	) dBm		#At	ten 20 di	В					
Peak Log										
10 dB/										
0ffst 21.6										
dB										
	in distance of the second	ر الدر بده بالحار في في	- Halpsterketer	والمتار ومربقه المطر		und de la contra			والمراقل والمراقع	والعربية المربعة
V1 S2 S3 FC					and the second			No. of Contraction of Contraction		
ÂA										
Start 1 #Res B	Start 13.99 GHz         Stop 20 GHz           #Res BW 1 MHz         #VBW 3 MHz         #Sweep 81.91 ms (8192 pts)								) 20 GHz .92 pts)	

	GPRS,	Mid Channel, In Band		
Result: Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm



		GPRS, Mi	d Channel, 0 - 2.8 GHz		
Result:	Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm

₩ A	gilent 1	2:08:29 /	26 Mar 20	107				★ Agilent 12:08:29 26 Mar 2007								
Ref 3	0 dBm		#At	ten 20 d	В											
Peak Log																
10 dB/																
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		أواليهم والطوحية والم	and the second state	alaha sa ki pasa atala s	ووالمسرو الملاوط ورودا		والمحالية المعريق									
V1 S2 S3 E0																
AA																
Start #Res I	0 Hz BW 1 MHz				#VBW 3 M	Hz	#S	weep 81.	Stop 91 ms (81	2.8 GHz .92 pts)						

### **Spurious Conducted Emissions**

Result:         Pass         Value:         ≤ -25 dBm         Limit:         ≤ -13 dBm		GPRS, Mid	Channel, 2.795 - 9 GHz		
	Result: Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm

🔆 Agil	ent 12	:09:29 2	26 Mar 20	107				RT		
Ref 30 (	dBm		#At	ten 20 df	3					
Peak   Log										
10   dB/										
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dB										
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V1 S2 S3 FCL			a a different a de la contra de la				فالمراجع والمراجع	and the second s		
AA										
Start 2.1 #Res BW	795 GHz 1 MHz				#VBW 3 MI	Hz	#S	weep 81.	Sto 91 ms (81	p 9 GHz .92 pts)

GPRS, Mid Channel, 8.995 - 14 GHz Limit:

Value: ≤ -25 dBm

≤ -13 dBm	

🔆 Aç	jilent 12	2:10:24 2	26 Mar 20	107				RT		
Ref 30	∣dBm		#At	ten 20 df	3					
Peak Log										
10 dB/										
Offst 21.6 JP										
аD										
	ويعونه والمرابع		and the second		<mark>lenallitan katharan</mark>	a chail a fan Log			an that the termine	- and the <b>Provide</b>
V1 S2 S3 EC	internet and the second se	a a statistica a st		والمغرفين والمتعادل	ومتر ومعلولا ومرد اما وقر					
ÂA										
Start 8 #Res B	8.995 GHz WW 1 MHz	2			≢VBW 3 M	Hz	<b>#</b> \$	weep 81.	Stop 91 ms (81	14 GHz 92 pts)

		GPRS, Mid C	Channel, 13.995 - 20 GHz		
Result:	Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm

30_dBm		#At	ten 20 di	В					
ik									
,									
st 6									
a kire or a baker	ha an tha baile and a	an a		<b>Differentiation in a line</b> t		tople		and the second shifts	ll station of
\$2 FC					inde Little Barrando	hin birlin malaysia		hale have a combined of the	
AA									
rt 13.99 GH s BW 1 MHz	lz		. <u></u>	#VBW 3 M	н <u></u>	 #S	ween 81.	Stop 91 ms (81	20 0 92 n

	GPRS, High Channel, In Band	
Result: Pass	<b>Value:</b> ≤ -25 dBm	<b>Limit:</b> ≤ -13 dBm

🔆 🔆 Ag	jilent 17	2:18:50 (	26 Mar 20	<u>107</u>				RT	٢			
Ref 30	dBm		#At	ten 20 di	в							
Peak Log												
10 dB/											$\bigwedge$	
0ffst 21.6											$\square$	
dB												
												$\setminus$
								4 - 14		Maralia		
V1 S2 S3 FC	and a the state of a											
ÂÂ												
Start 1 #Res B	.925 GHz W 1 MHz	2			₩VBW 3 M	Hz	#\$	weep	81.	Stop 1. 91 ms (81	995 G .92 pt	iHz ts)

### **Spurious Conducted Emissions**

	0	PRS, Hig	h Channel, 0 - 2.8 GHz		
Result: F	Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm

🔆 Agilent	12:19:51	26 Mar 20	107			I	RT		
Ref 30 dBm		#At	ten 20 di	3					
Peak Ing									
10 dB/									
Offst 21.6									
dB									
de se della de	an, ha bantakti ayaya		the state of the s			, and had defende	الفريقة والمقارفة	lin of the soldiers	a a dê de pira în de
V1 S2 S3 FC				and a second second					
AA									
Start ØHz #Res BW 1 MH	z			₩VBW 3 M	Hz	#S1	weep 81.	Stop 91 ms (81	2.8 GHz .92 pts)

GPRS, High Channel, 2.795 - 9 GHz Value: ≤ -25 dBm Limit: ≤ -13 dBm

莱	Ag	ilent 1	2:20:57	26 Mar 20	907				RT		
Ref	30	dBm		#At	ten 20 di	3					
Peak Log	<										
10 dB/											
0ffs 21.6	t										
dB											
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V1 : S3 E	S2 FC	and the second states									
ĥ	ΡĂ										
Star #Res	t2 sB	2.795 GH: W 1 MHz	Z			ŧVBW 3 M	Hz	#S	weep 81.	Sto 91 ms (81	ip 9 GHz .92 pts)

Result: Pass Value: ≤ -25 dBm Limit: ≤ -13 dBm			GPRS, High	Channel, 8.995 - 14 GHz		
	Result:	Pass	Value:	≤ -25 dBm	Limit:	≤ -13 dBm

🔆 Ag	jilent 1	2:21:54	26 Mar 20	107				RT		
Ref 30	dBm		#At	ten 20 di	3					
Peak Log										
10 dB/										
Offst 21.6										
dB										
V1 S2										
S3 FC AA										
 Start 8	9.995 <u>GH</u> :	 z							Stop	14 GHz
#Res B	W 1 MHz				₩VBW 3 M	Hz	<b>#</b> \$	weep 81.	91 ms (81	.92 pts)

GPRS, High Channel, 13.995 - 20 GHz				
Result: Pass	<b>Value:</b> ≤ -25 dBm	Limit:	≤ -13 dBm	

🔆 🔆 🔆										
Ref 30	) dBm		#At	ten 20 df	В					
Peak Log										
10 dB/										
Offst 21.6 JP										
ab										
			dela meta tarba de pr	and a location of the			u <mark>fetette ette</mark> ette		telele transmission	
V1 S2 S3 FC							مر روب آرونی پیدار این اور ا			
AA										
<b>A</b>										
Start . #Res E	13.99 GHz 8W 1 MHz	2			₩VBW 3 M	Hz	<b>#</b> S	weep 81.9	Stop 91 ms (81	.92 pts)









## NORTHWEST

XMit 2006.11.13

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Chamber, Temp./Humidity Chamber	Cincinnati Sub Zero (CSZ)	ZH-32-2-2-H/AC	TBA	7/31/2006	12
Spectrum Analyzer	Agilent	E4407B	AAU	12/8/2006	13
Multimeter	Tektronix	DMM912	MMH	12/7/2006	13
AC Power Source	Instek	APS-9050	TPK	NCR	0

#### **MEASUREMENT UNCERTAINTY**

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

#### TEST DESCRIPTION

#### Variation of Supply Voltage

The primary supply voltage was varied from 85% to 115% of nominal. The EUT can only be operated from the public AC mains, so an AC lab supply was used to vary the supply voltage from 115% to 85% of 120 V, 60 Hz.

#### Variation of Ambient Temperature

Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range (-30° to +50° C) and at 10°C intervals.

Measurements were made mid channel in the operational band via a direct connection between the RF output and a spectrum analyzer. The spectrum analyzer is equipped with a precision frequency reference that exceeds the stability requirement of the EUT.

NORTHWEST EMC		FREQUENC	( STABILITY		XMit 2006.11.13
EUT:	S-BTS GSM Base Station			Work Order:	RAFN0069
Serial Number:	Engineering Unit			Date:	03/29/07
Customer:	Radioframe Networks, Inc.			Temperature:	20°C
Attendees:	Bob Melsheimer			Humidity:	32%
Project:	None			Barometric Pres.:	30.08
Tested by:	Greg Kiemel		Power: 120VAC/60Hz	Job Site:	EV06
TEST SPECIFICATI	ONS		Test Method		
FCC 22H:2005			ANSI/TIA/EIA-603-B-20	02	
COMMENTS					
Maximum Output P	'ower.				
DEVIATIONS FROM	I TEST STANDARD				
Configuration #	1	Signature	LP		

#### Frequency Stability with Variation of Ambient Temperature (Primary Supply = 120VAC, 60 Hz)

Temp	Assigned Frequency	Measured Frequency	Tolerance	Specification
(°C)	(MHz)	(MHz)	(ppm)	(ppm)
50	881.20000	881.200129	0.15	1
40	881.20000	881.200103	0.12	1
30	881.20000	881.200098	0.11	1
20	881.20000	881.200093	0.11	1
10	881.20000	881.200093	0.11	1
0	881.20000	881.200102	0.12	1
-10	881.20000	881.200109	0.12	1
-20	881.20000	881.200137	0.16	1
-30	881,20000	881,200170	0.19	1

Frequency Stability with Variation of Primary Supply Voltage (Ambient Temperature = 20°C)

Voltage	Assigned Frequency	Measured Frequency	Tolerance	Specification
(VAC, 60 Hz)	(MHz)	(MHz)	(ppm)	(ppm)
138 (115%)	881.20000	881.200093	0.11	1
132 (110%)	881.20000	881.200093	0.11	1
126 (105%)	881.20000	881.200093	0.11	1
120 (100%)	881.20000	881.200093	0.11	1
114 (95%)	881.20000	881.200093	0.11	1
108 (90%)	881.20000	881.200093	0.11	1
102 (85%)	881.20000	881.200093	0.11	1



## FREQUENCY STABILITY



## NORTHWEST

XMit 2006.11.13

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Multimeter	Tektronix	DMM912	MMH	12/7/2006	13
AC Power Source	Instek	APS-9050	TPK	NCR	0

#### **MEASUREMENT UNCERTAINTY**

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NORTHWEST EMC		FREQUENCY	STABILITY		XMit 2006.11.13
EUT:	S-BTS GSM Base Station			Work Order:	RAFN0069
Serial Number:	Engineering Unit			Date:	03/29/07
Customer:	Radioframe Networks, Inc.			Temperature:	20°C
Attendees:	Bob Melsheimer			Humidity:	32%
Project:	None			Barometric Pres.:	30.08
Tested by:	Greg Kiemel		Power: 120VAC/60Hz	Job Site:	EV06
TEST SPECIFICATI	IONS		Test Method		
FCC 24E:2005			ANSI/TIA/EIA-603-B-20	02	
COMMENTS					
Maximum Output P	'ower.				
DEVIATIONS FROM	I TEST STANDARD				
Configuration #	1	Signature	L-P		

#### Frequency Stability with Variation of Ambient Temperature (Primary Supply = 120VAC, 60 Hz)

Temp	Assigned Frequency	Measured Frequency	Tolerance	Specification
(°C)	(MHz)	(MHz)	(ppm)	(ppm)
50	1960.00000	1960.000147	0.07	1
40	1960.00000	1960.000147	0.07	1
30	1960.00000	1960.000147	0.07	1
20	1960.00000	1960.000147	0.07	1
10	1960.00000	1960.000139	0.07	1
0	1960.00000	1960.000209	0.11	1
-10	1960.00000	1960.000292	0.15	1
-20	1960.00000	1960.000286	0.15	1
-30	1960.00000	1960.000338	0.17	1

Frequency Stability with Variation of Primary Supply Voltage (Ambient Temperature = 20°C)

Voltage	Assigned Frequency	Measured Frequency	Tolerance	Specification
(VAC, 60 Hz)	(MHz)	(MHz)	(ppm)	(ppm)
138 (115%)	1960.00000	1960.000147	0.07	1
132 (110%)	1960.00000	1960.000147	0.07	1
126 (105%)	1960.00000	1960.000147	0.07	1
120 (100%)	1960.00000	1960.000147	0.07	1
114 (95%)	1960.00000	1960.000147	0.07	1
108 (90%)	1960.00000	1960.000147	0.07	1
102 (85%)	1960.00000	1960.000147	0.07	1



## FREQUENCY STABILITY

