

Page 1 of 36

FCC ID: 2AJAN-6071T

Report No.: LCSA020823010EA

FCC TEST REPORT

FOR

Signifi Mobile Inc

Siyata T600 Cellular Booster

Test Model: 6071T

Additional Model No.: 6071T13; 6071T10

Prepared for Address

Prepared by

Address

Tel Fax Web Mail

Date of receipt of test sample Number of tested samples Serial number Date of Test Date of Report Shenzhen LCS Compliance Testing Laboratory Ltd. 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Baoan District, Shenzhen, China (+86)755-82591330 (+86)755-82591332 www.LCS-cert.com

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February 13, 2023

Signifi Mobile Inc

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- 2
- Prototype
- February 13, 2023 ~ March 07, 2023
- : March 07, 2023





FCC ID: 2AJAN-6071T

	FCC TEST REPORT FCC CFR 47 PART 20.21	
Report Reference No	LCSA020823010EA	The ma
Date of Issue :	March 07, 2023	
Testing Laboratory Name	Shenzhen LCS Compliance Testing La	aboratory Ltd.
Address	101, 201 Bldg A & 301 Bldg C, Juji Indus Baoan District, Shenzhen, China	trial Park Shajing Street,
: Testing Location/ Procedure	Full application of Harmonised standards Partial application of Harmonised standa Other standard testing method D	s∎ Irds □
Applicant's Name:	Signifi Mobile Inc	IS ICS Testing Lab
Address:	2207-1751 Richardson St.Montreal, Que	bec,H3K 1G6,Canada
Test Specification		
Standard :	FCC CFR 47 PART 2/PART 27/PART 20 ANSI C63.26-2015; KDB 935210 D05 Indus Booster Basic M	.21; leas v01r04.
Test Report Form No :	LCSEMC-1.0	
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Master TRF	g Laboratory Ltd. All rights reserved. in whole or in part for non-commercial purp- aboratory Ltd. is acknowledged as copyrig a Testing Laboratory Ltd. takes no respons g from the reader's interpretation of the rep Signifi Mobile 6071T Input: 12V3A For AC Adapter Input: 100-240V~,50/60H Adapter Output: 12V3A Positive	poses as long as the ght owner and source of th ibility for and will not produced material due to i
Master TRF: Shenzhen LCS Compliance Testin This publication may be reproduced Shenzhen LCS Compliance Testing I material. Shenzhen LCS Compliance assume liability for damages resultin placement and context. Test Item Description	Dated 2011-03 g Laboratory Ltd. All rights reserved. in whole or in part for non-commercial purplaboratory Ltd. is acknowledged as copyrige Testing Laboratory Ltd. takes no respons g from the reader's interpretation of the rep Signifi Mobile G071T Input: 12V=3A For AC Adapter Input: 100-240V~,50/60H Adapter Output: 12V=3A Fositive Supervised by:	poses as long as the ght owner and source of th ibility for and will not produced material due to in Hz
Master TRF: Shenzhen LCS Compliance Testin This publication may be reproduced i Shenzhen LCS Compliance Testing I material. Shenzhen LCS Compliance assume liability for damages resultin placement and context. Test Item Description: Trade Mark: Test Model: Ratings: Compiled by: Maxe Liu	Dated 2011-03 g Laboratory Ltd. All rights reserved. in whole or in part for non-commercial purplaboratory Ltd. is acknowledged as copyrige Testing Laboratory Ltd. takes no respons g from the reader's interpretation of the rep Siyata T600 Cellular Booster Signifi Mobile 6071T Input: 12V=3A For AC Adapter Input: 100-240V~,50/60H Adapter Output: 12V=3A Supervised by: Corr Market Supervised S	Poses as long as the ght owner and source of the ibility for and will not produced material due to in Har Approved by: Gams Riang

 Image: State of the state





Test Report No. :	LCSA020823010EA	March 07, 2023 Date of issue
Test Model	: 6071T	the second se
EUT	: Siyata T600 Cellular Bo	poster
Applicant	: Signifi Mobile Inc	
Address	: 2207-1751 Richardson	St.Montreal, Quebec,H3K 1G6,Canada
Telephone	: 514-500-1181	
Fax	. : 514-500-1181	
Manufacturer	: Signifi Mobile Inc	
Address	. : 2207-1751 Richardson	St.Montreal, Quebec,H3K 1G6,Canada
Telephone	: 514-500-1181	14 测展价
Fax	. : 514-500-1181	LCS Testing Lab
Fastary	. Cimili Mahila Ing	
Address	Signifi Mobile Inc	Of Mantroal, Overlag, USK 100 Canada
	. : 2207-1751 Richardson	St.Montreal, Quebec, H3K 1G6, Canada
	: 514-500-1181	
rax	. : 514-500-1181	
一则股份		出版份
Test Result	Tirling Les Testing	Positive

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Report No.: LCSA020823010EA

Revision History









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1.Test Result Summary

Applied Sta	andard: FCC CFR 47 PART 2/PART 27/PART 2	20.21
FCC Rules	Description of Test	Result
§2.1047, §27.50(c), KDB 935210 D05 v01r04	Mean output power and amplifier gain	Compliant
KDB 935210 D05 v01r04	Out-of-band rejection	Compliant
§2.1049, KDB 935210 D05 v01r04	Occupied bandwidth and Input-versus-output signal comparison	Compliant
§2.1051, §27.53(g) KDB 935210 D05 v01r04	Out-of-band/block (including intermodulation) emissions	Compliant
§2.1051&§27.53(g) KDB 935210 D05 v01r04	Spurious emissions at antenna terminals	Compliant
§2.1053&§27.53(g) KDB 935210 D05 v01r04	Radiated spurious emissions	Compliant
§2.1055&§27.54 KDB 935210 D05 v01r04	Frequency tolerance	Not Applicable*
§ 2.1091	Maximum Permissible exposure (MPE)	See MPE Report

Note:

- 1. Compliant: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.
- 5. the booster does not alter the input signal in any way.





2.EUT Description

2.EUT Description			
Product Name:	Siyata T600 Cellular Boo	ster	
Model :	6071T		
Additional Model:	6071T13; 6071T10		
Model Declaration:	PCB board, structure and So no additional models	l internal of these model(s) a were tested	re the same,
Trade Mark:	Signifi Mobile		
Operation Frequency:	Band 71 Uplink: 663 MHz~698MH	z, Downlink: 617MHz ~652M	1Hz
Emission Designator:	G7D,W7D		
FCC Classification:	Industrial Signal Booster(B2I)	
Power Supply:	DC 12V 3.0A		
AC adapter:	Adapter Information: MODEL: GM53-120300-F For AC Adapter Input: 10 Adapter Output: 12V-3A	- 0-240V~, 50/60Hz	份
Remark:	N/A		La

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.





Report No.: LCSA020823010EA



Outdoor Antonno		Outdoor	Antenna	Gain	
Outdoor Antenna	617~652MHz				
Yagi antenna	9.5				
Panel antenna	7.0				
Outdoor Cable					
Outdoorsehle		Outdoo	or Cable Lo	oss	· · · · · · · · · · · · · · · · · · ·
Outdoor cable	617~652MHz	TT TIMP	Lab	-	-TI HAL
10m 5D-FB	1.7	Test to		1	
Indoor Antenna			•	•	•
1. I A	Indoor Antenna Gain				
Indoor Antenna	663~698MHz				
Omni Antenna	3			-	
Panel Antenna	7				
-mille (h)	-mit Bi	indoe	or Cable	-miller (f)	1
Indeer Cable	Tilling	Indoo	r Cable Lo	SS	
	663~698MHz		Ed res		- 19
5m 5D-FB	0.8				







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3.General Information

3.1 Test environment

Operating Environment:	
Temperature:	24.1 °C
Humidity:	53.2 % RH
Atmospheric Pressure:	1010 mbar

3.2 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Manufacturer	Description	Model	Serial Number	Certificate	
FOSHAN SHUNDE GUANYUDA POWER SUPPLY CO.,LTD	AC/DC Adapter	GM53-120300-F		FCC SDoC	
現检測版的 cs Testing Lab	Sf LCS Testing Lab	上 LCS Testin	度们 g Lab	Les T	i测股份 asting Lab





4. Facilities and Accreditations

4.1 Facilities

The test facility is recognized, certified, or accredited by the following organizations:

NVLAP Accreditation Code is 600167-0. FCC Designation Number is CN5024. CAB identifier is CN0071. CNAS Registration Number is L4595. Test Firm Registration Number: 254912.

4.2 Location

Shenzhen LCS Compliance Testing Laboratory Ltd.

Address: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Baoan District, Shenzhen, China

TEL: (+86)755-82591330

4.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.51dB
2	RF power, conducted	±0.11dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%





5.Test Results and Measurement Data

5.1 MEAN OUTPUT POWER AND AMPLIFIER GAIN

Applicable Standard

According to § 27.50(c)

1) Fixed and base stations transmitting a signal with an emission bandwidth of 1 MHz or less must not

exceed an effective radiated power (ERP) of 1000 watts and an antenna height of 305 m height above

average terrain (HAAT), except that antenna heights greater than 305 m HAAT are permitted if power

levels are reduced below 1000 watts ERP in accordance with Table 1 of this section;

(2) Fixed and base stations located in a county with population density of 100 or fewer persons per square

mile, based upon the most recently available population statistics from the Bureau of the Census, and

transmitting a signal with an emission bandwidth of 1 MHz or less must not exceed an ERP of 2000 watts

and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are

permitted if power levels are reduced below 2000 watts ERP in accordance with Table 2 of this section;

(3) Fixed and base stations transmitting a signal with an emission bandwidth greater than 1 MHz must not

exceed an ERP of 1000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights

greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts/MHz ERP in

accordance with Table 3 of this section;

(4) Fixed and base stations located in a county with population density of 100 or fewer persons per square

mile, based upon the most recently available population statistics from the Bureau of the Census, and

transmitting a signal with an emission bandwidth greater than 1 MHz must not exceed an ERP of 2000

watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT

are permitted if power levels are reduced below 2000 watts/MHz ERP in accordance with Table 4 of this

section.





Test Procedure

According to 935210 D05 Indus Booster Basic Meas v01r04

a) Connect a signal generator to the input of the EUT.

b) Configure to generate the AWGN (broadband) test signal.

c) The frequency of the signal generator shall be set to the frequency of (f0) as determined from 3.3.

d) Connect a spectrum analyzer or power meter to the output of the EUT using appropriate attenuation as

necessary.

e) Set the signal generator output power to a level that produces an EUT output level that is just below the

AGC threshold (see 3.2), but not more than 0.5 dB below.

f) Measure the output power of the EUT and record (see 3.5.3 or 3.5.4 for power measurement guidance).

g) Remove the EUT from the measurement setup and using the same signal generator settings, repeat the

power measurement on the input signal to the EUT and record as input power.

h) Repeat the procedure with the narrowband test signal.

i) Repeat the procedure for both test signals with input signal amplitude set to 3 dB above the AGC

threshold level.

j) Repeat for all frequency bands authorized for use by the EUT.

Method 1: Power measurement with a spectrum or signal analyzer

Guidance for performing input/output power measurements using a spectrum or signal analyzer is

provided in 5.2 of KDB Publication 971168.

Calculating the mean amplifier, booster, or repeater gain

NOTE-§§ 20.21 and 2.1033(c) do not require gain test data; inclusion of industrial booster gain test data in

test reports submitted for FCC equipment authorization is optional.

After the mean input and output power levels have been measured as described above, the mean gain of

the EUT can be determined from:

Gain (dB) = output power (dBm) – input power (dBm).

Report the mean gain for each authorized operating frequency band and each test signal stimulus.

Test Data

Mode	Frequency (MHz)	Signal Type	AGC threshold level (dBm)	Signal Level	Input Power (dBm)	Output Power (dBm)	Gain (dB)
Uplink	691.35	AWGN	-44.231	Pre-AGC	-43.563	22.315	65.878
	-		all a	3dB above AGC	-40.563	22.253	62.816
田校測書		GSM	-43.256	Pre-AGC	-43.698	22.421	66.119
ST LCS Testin	J. L.	IST LCS	Testing	3dB above AGC	-40.698	22.035	62.733



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Downlink	621.025	AWGN	-50.023	Pre-AGC	-50.123	15.050	65.173
Titus	JLab	Let II W	TestingLab	3dB above AGC	-47.123	15.123	62.246
En Lus		GSM	-51.036	Pre-AGC	-50.684	15.312	65.996
				3dB above AGC	-47.684	15.356	63.040











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5.2 OUT-OF-BAND REJECTION

Applicable Standard

According toKDB935210 D02 Signal Boosters Certification v04r02, Out-of-band rejection–testing for rejection of out-of-band signals may be appropriate. Alternatively, filter frequency response plots are acceptable.

Test Procedure

Adjust the internal gain control of the equipment under test to the maximum gain for which equipment certification is sought.

- a) Connect a signal generator to the input of the EUT.
- b) Configure a swept CW signal with the following parameters:
- 1) Frequency range = ± 250 % of the passband from the center of the passband.
- 2) Level = a sufficient level to affirm that the out-of-band rejection is > 20 dB above the noise floor and
- will not engage the AGC during the entire sweep.
- 3) Dwell time = approx. 10 ms.
- 4) Number of points = SPAN/(RBW/2).
- c) Connect a spectrum analyzer to the output of the EUT using appropriate attenuation.
- d) Set the span of the spectrum analyzer to the same as the frequency range of the signal generator.
- e) Set the resolution bandwidth of the spectrum analyzer to be 1 % to 5 % of the passband and the videobandwidth shall be set to \geq 3 × RBW.

Test Data





5.3 OCCUPIED BANDWIDTH AND INPUT-VERSUS-OUTPUT SIGNAL

COMPARISON

Applicable Standard

According to § 2.1049 and KDB935210 D02 Signal Boosters Certification v04r02, Report worst case results for occupied bandwidth comparison and intermodulation tests done with and without any AGC circuitry activated, for devices so equipped.

Test Procedure

A 26 dB bandwidth measurement shall be performed on the input signal and the output signal (alternatively, the 99% OBW can be measured and used) to demonstrate compliance to the technical requirements specified in §90.219(e)(4)(i) and (ii). See KDB Publication 971168 for more information regarding measuring the OBW.

a) Connect a signal generator to the input of the EUT.

b) Configure the signal generator to transmit the AWGN signal.

c) Configure the signal amplitude to be just below the AGC threshold level (see 3.2), but not more than 0.5 dB below.

d) Connect a spectrum analyzer to the output of the EUT using appropriate attenuation.

e) Set the spectrum analyzer center frequency to the center frequency of the operational band under test. The span range of the spectrum analyzer shall be between 2 times to 5 times the EBW or alternatively, the OBW.

f) The nominal resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the anticipated OBW, and the VBW shall be \geq 3 × RBW.

g) Set the reference level of the instrument as required to preclude the signal from exceeding the maximum spectrum analyzer input mixer level for linear operation. In general, the peak of the spectral envelope must be more than [10 log (OBW / RBW)] below the reference level.

NOTE—Steps f) and g) may require iteration to enable adjustments within the specified tolerances.

h) The noise floor of the spectrum analyzer at the selected RBW shall be at least 36 dB below the reference level.

i) Set spectrum analyzer detection function to positive peak.

j) Set the trace mode to max hold.

k) Determine the reference value: Allow the trace to stabilize. Set the spectrum analyzer marker to the highest amplitude level of the displayed trace (this is the reference value) and record the associated frequency as f0.

I) Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the -26 dB down amplitude. The 2 dB emission bandwidth is the positive frequency difference between the two markers.

NOTE—The spectral envelope may cross the -26 dB down amplitude at multiple points. If so, the lowest or highest frequency shall be selected as the frequencies the furthest removed from the center frequency at



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which the spectral envelope crosses the -26 dB down amplitude point.

m) Repeat steps e) to I) with the input signal connected directly to the spectrum analyzer (i.e., input signal measurement).

n) Compare the spectral plot of the input signal (determined from step m) to the output signal (determined from step I) to affirm that they are similar (in passband and rolloff characteristic features and relative spectral locations), and include plot(s) and descriptions in test report.

o) Repeat steps a) to n) with the signal generator set to the narrowband signal.

p) Repeat the procedure for both test signals with the input signal amplitude set 3 dB above the AGC threshold.

q) Repeat for all frequency bands authorized for use by the EUT.

Test Data

y) Repeat to	an neque	ncy bands authorized					
Test Data							
Mode Signal		Signal Level	99% Occupied Bandwidth (MHz)		26 dB Bandwidth (MHz)		
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Input	Output	Input	Output	
		Pre-AGC	4.2065	4.1622	4.711	4.699	
	AWGN	3dB above AGC	4.2108	4.1902	4.709	4.693	
LL P A THE	支付	Pre-AGC	0.238	0.234	0.299	0.300	
Uplink	GSM	3dB above AGC	0.240	0.236	0.305	0.311	
Por Los Is		Pre-AGC	4.2041	4.1942	4.703	4.699	
	AWGN	3dB above AGC	4.2067	4.1838	4.714	4.692	
Desceller		Pre-AGC	0.236	0.238	0.303	0.305	
Downlink	GSM	3dB above AGC	0.240	0.237	0.300	0.305	







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Agilent Spectrum Analyzer - Occupied BW 00 RL RF S0 Q AC	SENSE:INT SOURCE OFF ALIGNAUTO	09:09:33 AM Mar 06, 2023	Agilent Spectrum Analyzer - Occupied BW VII R RF SD AC SENSE-PULSE ALIGNAUTO 02-41:14 PM Mar 07, 2023
Mech Atten 20 dB	Center Freq: 634.500000 MHz Trig: Free Run Avg Hold>10/10 #Atten: 20 dB	Radio Std: None Radio Device: BTS	VBW 300.00 kHz Center Freq: 634,500000 MHz Radio Std: None Tig: Free Run Avg Hold>10/10 Radio Device: BTS
wir Gum.Low			
10 dB/div Ref -10.00 dBm			10 dB/div Ref 30.00 dBm Log 200
-30.0			10.0
-40.0			100
-60.0			200
-80.0			
-90.0			
Center 634.5 MHz		Span 10 MHz	Center 634.5 MHz Span 10 MHz
#Res BW 100 kHz	#VBW 300 kHz	Sweep 1.267 ms	#Res BW 100 kHz #VBW 300 kHz Sweep 1.267 ms
Occupied Bandwidth 4 2041 MHz	Total Power -23.6 dBm		Occupied Bandwidth Total Power 15.1 dBm 4 1942 MHz
Transmit Freq Error -6.196 kHz	OBW Power 99.00 %		Transmit Freq Error 7.427 kHz OBW Power 99.00 %
x dB Bandwidth 4.703 MHz	x dB -26.00 dB		x dB Bandwidth 4.699 MHz x dB -26.00 dB
MED	670 × 500 × 50		l una
Downlink AMC		ower	Downlink AW/CN Pro ACC Output Dowor
Agilent Spectrum Analyzer - Occupied BW		ower	Aginet Spectrum Analyzer - Occupied BW
02 RL RF 50 Ω AC Span 10.000 MHz	SENSE:INT SOURCE OFF ALIGNAUTO Center Freq: 634.500000 MHz Trig: Free Run Available's 10/40	09:41:00 AM Mar 06, 2023 Radio Std: None	Image: Registration of the second s
#IFGain:Low	#Atten: 20 dB	Radio Device: BTS	#IFGaint.ow #Atten: 40 dB Radio Device: BTS
10 dB/div Ref -10.00 dBm			10 dB/div Ref 30.00 dBm
-20.0			
-40.0			000
-50.0			-100
-70.0	\ \	//////////////////////////////////////	300
-80.0			400 500 manual mark
-100			60.0
Center 634.5 MHz #Res BW 100 kHz	#VBW 300 kHz	Span 10 MHz Sweep 1.267 ms	Center 634.5 MHz Span 10 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.267 ms
Occupied Bandwidth	Total Power -23.4 dBm		Occupied Bandwidth Total Power 15.4 dBm
4.2067 MHz			4.1838 MHz
Transmit Freq Error -1.755 kHz	OBW Power 99.00 %		Transmit Freq Error 10.138 kHz OBW Power 99.00 %
	X dB -20.00 dB		
MSG	STATUS		MBG STATUS
Downlink, AWGN	, Above-AGC, Input	Power	Downlink, AWGN, Above-AGC, Output Power
Agilent. Spectrum Analyzer - Occupied BW (μ) RL RF SO Ω AC Image: Complex Com	SENSE:INT SOURCE OFF ALIGN AUTO	09:25:13 AM Mar 06, 2023	Agilent Spectrum Analyzer - Occupied BW Stretcrum Analyzer - Occupied BW 21 RL RF 50.2 AC 09.2800 AM Ma 06, 2023 2 CALL 20.00 AC 09.2800 AM Ma 06, 2023
VENTER Freq 634.500000 MHz ///FGain:Low	Trig: Free Run Avg Hold>10/10 #Atten: 20 dB	Radio Device: BTS	Interview Static State
10 dR/div Def -10 00 dBm			10 dP/div Pef 30 00 dBm
-30.0	munin		100
-50.0			
-60.0			
-80.0 an with a second and a second and a second		- and a second and a	
-100			500 Leverman market
Center 634.5 MHz #Bes BW 10 kHz	#\/BW/ 30 kH~	Span 1 MHz	Center 634.5 MHz Span 1 MHz
	Total Power -24.3 dPm	oweep 12.4 Ms	Pres DW 10 KHZ #VDW 30 KHZ SWeep 12.4 ms
236.49 kHz			237.76 kHz
Transmit Freq Error -645 Hz	OBW Power 99.00 %		Transmit Freq Error -524 Hz OBW Power 99.00 %
x dB Bandwidth 303.3 kHz	x dB -26.00 dB		x dB Bandwidth 305.2 kHz x dB -26.00 dB
MSG	STATIO		Mig
Downlink CSM		w/or	Downlink GSM Pre-ACC Output Power
DOWNIIK, GOIV	i, i ie-AGO, iliput PC	100 CI	





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Agental Speed on Productive Cocceptor Day R R ↓ RF 500 AC Center Freq 634.500000 MHz #/FGain.tew	SENSE:INT SOURCE OFF ALIONAUTO Center Freq: 634.500000 MHz] Trig: Free Run Avg Hold>10/10 #Atten: 20 dB	09:38:53 AMMar06, 2023 Radio Std: None Radio Device: BTS	Aginin Spectrum Analyzer - Occupied bw R RL RF SDR AC Ref Value 30.00 dBm #//FGain	SENSE:INT SOURCE OFF A Center Freq: 634.500000 Trig: Free Run #Atten: 40 dB	LIGNAUTO MHz Avg Hold>10/10	09:32:20 AM Mar 06, 2023 Radio Std: None Radio Device: BTS
10 dB/div Ref -10.00 dBm		Span 1 MHz	10 dB/div Ref 30.00 dBm			Span 1 MHz
Occupied Bandwidth 239.55 kHz	Total Power -21.2 dBm	Sweep 12.4 ms	Occupied Bandwidth 237.43 k	Total Power HZ	15.6 dBm	Sweep 12.4 ms
Transmit Freq Error 5 Hz x dB Bandwidth 299.5 kHz	OBW Power 99.00 % x dB -26.00 dB		Transmit Freq Error 444 x dB Bandwidth 305.1	8 Hz OBW Power kHz x dB	99.00 % -26.00 dB	
Downlink, GSM,	Above-AGC, Input I	Power	Downlink, GS	M, Above-AG	C, Output F	Power







5.4 Out-of-band/block (including intermodulation)

Applicable Standards

According to §27.53(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. KDB935210 D02 Signal Boosters Certification v04r02: Report worst case results for occupied bandwidth comparison and intermodulation tests done with and without any AGC circuitry activated, for devices so

Test Procedure

Out-of-band/block emissions (including intermodulation products) shall be measured under each of the following two stimulus conditions:

a) two adjacent test signals sequentially tuned to the lower and upper frequency band/block edges;

b) a single test signal, sequentially tuned to the lowest and highest frequencies or channels within the frequency band/block under examination.

NOTE—Single channel boosters that cannot accommodate two simultaneous signals within the passband, can be excluded from the test stipulated in step a).

EUT out-of-band/block emissions conducted measurement

a) Connect a signal generator to the input of the EUT.

NOTE—If the signal generator is not capable of generating two modulated carriers simultaneously, then two discrete signal generators can be connected with an appropriate combining network to support the two-tone test.

b) Set the signal generator to produce two AWGN signals as previously described (e.g., 4.1 MHz OBW).c) Set the center frequencies such that the AWGN signals occupy adjacent channels, as defined by industry standards such as 3GPP or 3GPP2, at the upper edge of the frequency band or block of interest.

d) Set the composite power levels such that the input signal is just below the AGC threshold (see 3.2), but not more than 0.5 dB below. The composite power can be measured using the procedures provided in KDB Publication 971168, but it will be necessary to expand the power integration bandwidth so as to include both of the transmit channels. Alternatively, the composite power can be measured using an average power meter as described in KDB Publication 971168.

e) Connect a spectrum analyzer to the output of the EUT using appropriate attenuation as necessary.
f) Set the RBW = reference bandwidth in the applicable rule section for the supported frequency band (typically 1 % of the emission bandwidth, 100 kHz, or 1 MHz)

g) Set the VBW = $3 \times RBW$.

h) Set the detector to power averaging (rms) detector.

i) Set the Sweep time = auto-couple.



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 Scan code to check authenticity



j) Set the analyzer start frequency to the upper block edge frequency and the stop frequency to the upper block edge frequency plus 300 kHz or 3 MHz for frequencies below and above 1 GHz, respectively.

k) Trace average at least 100 traces in power averaging (i.e., rms) mode.

I) Use the marker function to find the maximum power level.

m) Capture the spectrum analyzer trace of the power level for inclusion in the test report.

n) Repeat the procedure with the composite input power level set to 3 dB above the AGC threshold.

o) Reset the input signals frequencies to the lower edge of the frequency block or band under examination.

p) Reset the spectrum analyzer start frequency to the lower block edge frequency minus 300 kHz, or 3 MHz (for frequencies below and above 1 GHz, respectively), and the stop frequency to the lower band or block edge frequency.

q) Repeat steps k) to n).

r) Repeat steps a) to q) with the signal generator configured for a single test signal tuned as close as possible to the block edges.

s) Repeat steps a) to r) with the narrowband test signal.

t) Repeat steps a) to s) for all authorized frequency bands or blocks used by the EUT.





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ker 1 662.862000000 MHz Avg Type: RMS AvgHold>100/100 rker 1 698.151500000 MHz Avg Type: RMS Avg|Hold>100/100 PNO: Wide Trig: Free Run #Gain: I ow #Atten: 30 dB PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 662.862 0 MHz -38.378 dBm Mkr1 698.151 5 MHz -37.332 dBm Ref Offset 3 dB Ref 20.00 dBm Ref Offset 3 dB Ref 20.00 dBm ∳¹ Span 300.0 kHz Sweep 1.000 ms (1001 pts Span 300.0 kHz Sweep 1.000 ms (1001 pts) enter 698.1500 MHz Res BW 100 kHz r 662.8500 MHz Res BW 100 kHz #VBW 300 kHz* #VBW 300 kHz* Uplink, AWGN, Pre-AGC Uplink, AWGN, Pre-AGC Avg Type: RMS AvgHold>100/100 Avg Type: RMS AvgHold>100/100 arker 1 662.871900000 MHz arker 1 698.194100000 MHz TYPE MWWWW DET A N N N N PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 662.871 9 MHz -35.667 dBm Mkr1 698.194 1 MHz -34.042 dBm Ref Offset 3 dB Ref 20.00 dBm Ref Offset 3 dB Ref 20.00 dBm ¢ enter 662.8500 MHz Res BW 100 kHz Span 300.0 kHz Sweep 1.000 ms (1001 pts) enter 698.1500 MHz Res BW 100 kHz Span 300.0 kHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz* #VBW 300 kHz* Uplink, AWGN, Above-AGC Uplink, AWGN, Above-AGC RL RF 50 Ω AC arker 1 662.998200000 MHz arker 1 698.001200000 MHz Avg Type: RMS AvgHold>100/100 Avg Type: RMS AvgHold>100/100 PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 662.998 2 MHz -36.293 dBm Mkr1 698.001 2 MHz -33.013 dBm Ref Offset 3 dB Ref 20.00 dBr Ref Offset 3 dB Ref 20.00 dBn Span 300.0 kH Sweep 1.000 ms (1001 pts enter 662.8500 MHz Res BW 100 kHz Span 300.0 kHz Sweep 1.000 ms (1001 pts enter 698.1500 MHz Res BW 100 kHz #VBW 300 kHz* #VBW 300 kHz* Uplink, GSM, Pre-AGC Uplink, GSM, Pre-AGC





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Aglinit Synset Tuni Analyzer - Xiverg SA 24 TL FF 1959 & C 202037 PH Mar (0, 2022) Marker 1 662.998500000 MHz PHO: Wide C Trig: Free Run AvgHeid≥ 100/100 1™PHO: National C 2010 100/100 1™PHO: Trig: Free Run AvgHeid≥ 100/100 1™PHO: National C 2010 100/100 1™PHO: National C 2010 100/100 11™PHO: National C 2010 11	Agline Spectrum Analyzer, Swept SA ■ R ■ P ■ 99 ≪ SA Marker 1 698:004500000 MHz PID: Wide T PID: Wide T Trig: Free Run AvgHold= 100100 Trig
IF GainLow Atten: 30 dB Ref Offset 3 dB Mkr1 662.998 5 MHz 10 dB/die Ref 0 00 dBm - 33.271 dBm	IFGaint.ew #Atten: 30 dB Colorado B Ref Offset 3 dB Mkr1 698.004 5 MHz Ref Offset 3 dB
00	100
-100	-100
-200	-20.0
300	
400	40.0
50.0	500
60.0	60.0
-70.0	-70.0
Center 662.8500 MHz Span 300.0 KHz Span 300.0 KHz	Center 698,1500 MHz Span 300.0 KHz
##Res BW 100 km2 #VBW 300 km2" Sweep 1,000 ms (1001 pts) Msg status	#KES BW 100 KHZ #VBW 300 KHZ* Sweep 1.000 HIS (1001 PIS) MSG STATUS
Uplink, GSM, Above-AGC	Uplink, GSM, Above-AGC
Construction Analysis	20 R.4 PF 90.4 SERSE: INT SOURCE OFF ALISHAUTO 0224/34 PM/m06, 2023 Marker 1 652,1656000000 MHz Trip Faa Dun Avg Type: RMS 11/24/2010 11/24/2010
PRO: Wide Carrier 130 dB regimer 200 to regimer 200	PNU: Wide States 3 dB Mkr1 652.165 6 MHz
10 dB/div Ref 20.00 dBm -37.295 dBm	10 dB/div Ref 20.00 dBm -39.355 dBm
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	0.00
-100	-10.0
-20.0	-20.0
	-300
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800	
700	70.0
Canter 216 0500 Milin	Canter 653 4500 MMa
Center of 10.8300 MHz Span 300.0 KHz Span 300.0 KHz Span 300.0 KHz #Res BW 100 kHz #VBW 300 kHz* Sweep 1.000 ms (1001 pts) wol isranie	Center 632,1300 MHz Span 300,0 KHz Span 300,0 KHz #Res BW 100 kHz #VBW 300 kHz* Sweep 1.000 ms (1001 pts) weg Image: State Sta
Downlink, AWGN, Pre-AGC	Downlink, AWGN, Pre-AGC
Anglient Spectrum Analyzer - Swept SA R. 197 50 g AC 50 SERVE SPIT SOURCE CPF ALIONAUTO 02:25:14794 Mgr 06, 2023	Adjent Spectrum Analyzer - Swept SA R L FP 50 0 AC SERCEINT SOURCE OFF ALIGNAUTO 02.24:09 PM Mar 06, 2023
Marker 1 b1b.8666800000 MHz Avg Trace Russer Trace Russer Russe	Marker 1 652.099000000 MHz Avg Type: RMS TRACE[23 45 6 Trig: Free Run Avg[Heid>100/100 Trig: New Weight Avg Type: RMS Example Avg T
Ref Offset 3 dB Mkr1 616.866 8 MHz 10 dB/div Ref 20.00 dBm34.602 dBm	Ref Offset 3 dB Mkr1 652.099 0 MHz 10 dB/d/w Ref 20.00 dBm -44.383 dBm
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0.00	0.00
-10.0	10.0
	-20.0
30.0	30.0
400 may may any any any any any any any any any a	
500	500 manuary which are a set of the set of th
60.0	60.0
-70.0	70.0
Center 616.8500 MHz Span 300.0 kHz #Res BW 100 kHz #VBW 300 kHz* Sweep 1.000 ms (1001 pts)	Center 652.1500 MHz Span 300.0 kHz #Res BW 100 kHz #VBW 300 kHz* Sweep 1.000 ms (1001 pts)
Downlink, AWGN, Above-AGC	Downlink, AWGN, Above-AGC





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Marker 1 616.99940000	D MHz PNO: Wide Trig: Fr IFGain:Low	OURCE OFF ALIGNAUTO Avg Ty ee Run Avg Hol 30 dB	01:53:02 PM Mar 06, pe: RMS TRACE [] 2 3 Id>100/100 TYPE [MWW DET A N N	ND23 UX RL Marker	1 652.001800000 MHz	PNO: Wide FIGain:Low #Atten: 30 dB	F ALIGNAUTO Avg Type: RMS Avg Hold>100/10	01:55:24 PM Mar 06, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET A N N N N N
Ref Offset 3 dB 10 dB/div Ref 20.00 dBm			Mkr1 616.999 4 M -39.616 d	Hz 3m 10 dB/div	Ref Offset 3 dB Ref 20.00 dBm			Mkr1 652.001 8 MHz -40.729 dBm
Log				Log				
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-suu	mummmmmmmm	mour monte mark Marine	had the second s	-50.0		and the second second and the second	ha	A
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Center 616.8500 MHz			Span 300.0	Hz Center	652.1500 MHz			Span 300.0 kHz
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- 4	Downlink G	SM Pre-A	GC	10-	D	ownlink GSM	Pre-AGC	
Agilent Spectrum Analyzer - Swept SA	Downlink, G	SM, Pre-A	GC	Agilent Spo	D rctrum Analyzer - Swept SA	ownlink, GSM	, Pre-AGC	
Aglent Spectrum Analyzer - Swept SA 28 RL RF 50.9 AC Marker 1 616.997600000	Downlink, G	SM, Pre-AC	01:54:15 FM Mar O6, pe: RMS TRACE [1:2 3 d>100/100 TVFE[Minut Det[: A N N	Agilent Spo 023 04 RL 15 6 Marker	D ctrum Analyzer - Swept SA RF 50 2 AC 1 652.001200000 MHz	OWNIINK, GSM SEVSE:EVT SOURCE OF PNO: Wide IFGain:Low Trig: Free Run #Atten: 30 dB	F ALIGNAUTO Avg Type: RMS Avg Hoid>100/10	01:56:12 PM Mar 06, 2023 TRACE [1 2 3 4 5 6 TYPE DET A N N N N DET A N N N N
Adient Spectrum Analyzer - Swept Sol RL RF 50 Q. AC Marker 1 616.997600000 Ref Offset 3 dB 10 dB/div Ref 20.00 dBm	Downlink, G SDGENTS DMHz PNO: Wide Trig: Fr BFGainLow Trig: Fr	SM, Pre-Ad OLRCE OFF ALIGNAUTO Avg Ty ee Run 30 dB	GC per RMS d>10154115PMMar06, trace []123 trace []123	Arstent Spo S 6 Marker Hz 3m 10 dB/di	Ctrum Analyzer - Swept SA	OWNIINK, GSM	, Pre-AGC	01:56:12 PMM#r06, 2023 TRACE [12:3:4:5:6 TRACE [12:3:4:5:6 TRACE [12:3:4:5:6 TRACE [12:3:4:5:6 CET NNNNN Mkr1 652.001 2 MHz -37.738 dBm
Atlent Spectrum Andryn - Snipt St Atlent Spectrum Andryn - Snipt St Marker 1 616.997600000 Marker 1 616.997600000 Ref Offset 3 dB Ref 20.00 dBm	Downlink, G	SM, Pre-A(GC ax RMS 0154139814000 dc=100/100 01641397 cel A RN Mkr1 616.997 6 M -34.915 d	Aptent Sp Dag RL Marker Hz Sm 10 dB/dk	D	OWNIINK, GSM	, Pre-AGC	01:50:12 PM Mw (05, 2022) 1746 [2:2:3:4:5 0 Trice [3:2:3:4:5 0 Cel 2:3:4:5 0 Cel 2:0 H/Z -37.738 dBm
Addent Spectrum Analyzer Sweed SV R.L. 10 1000 AC Marker 1 616.997600000 Marker 1 616.997600000 10 dBidiv Ref Offset 3 dB Ref Offset 3 dB 10 dBidiv	Downlink, G	SM, Pre-A(GC 2015/13/21/00/100 2016/100/100 CET A IN CET A IN Mkr1 616.997 6 N -34.915 d	Agilant Spe Marker 15 6 Marker Marker 10 dB/div 10.0	D	OWNIINK, GSM	, Pre-AGC	0156:12PM/wr06, 2022 Trace [] 23 4 5 6 trace [] 24 4 5 7 trace [] 24 5 7
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Adlent Soctrum Analyze, Swort S 8 RL 19 50 2 42 Marker 1 616.99760000 Marker 1 616.99760000 Ref Offset 3 dB 10 dB/div Ref 20.00 dBm 0.00 0.00 0.00	Downlink, G	SM, Pre-A(GC 015613591M008. per RM5 do-1000/100 TWACE 123 TWACE 123 TW	XXX22 Agtient Sign UR R. UR Narker HZ Marker 10.0 0.00	D	Ownlink, GSM	, Pre-AGC	0156:12 PMMar06, 2022 MMACT [2:2:3:4:5:6 pmt] mmt] Mkr1 652.0012 MHz -37,738 dBm -330.66
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Addent Spectrum Audyter, Snight S 01 RL PF 150 0 AC Marker 1 616.997600000 10 dBidly Ref Offset 3 dB 10 0 0.00 -10.0 -300	Downlink, G		COLORED COLORE	Image: Non-State State St	D	Ownlink, GSM		015612PMM/r06,2023 PMC[12:3:4:5 0 TPAC[12:3:4:5 0 TPAC
Addent Spectrum Andrizer Snept S RL PF 930 a CC Marker 1 616.99760000 10 dB/div Ref 076et 3 dB 10 dB/div Ref 076et 3 d	Downlink, G	SM, Pre-A(CISC 0156-13 PM Me 00. P4: RMS 1007000 1001 [123 45: 1007100 1001 [123 1007100 [123 1007100 [123 1007100 [123 1007100 [123 1007100 [123 1007100 [120 1007100 [12	Image: Second	D	Ownlink, GSM		015612PMM/r06,2023 PMCE[12:3:4:5 were NANNAN Mkr1 652.001 2 MHz -37.738 dBm
Addrest Spectrum Analyzer Snept M Rt PF 900 AC Marker 1 616.997600001 10 dB/div Ref Offset 3 dB 10 dB/div Ref 20.00 dBm 10 dB/div Ref 20.00 d	Downlink, G	SM, Pre-A(GC 015415914000 1007100 100	XX22 Action 500 0 RL 1 5.0 Marker Marker 10.0 10.0 0.00	D	Ownlink, GSM	, Pre-AGC	0150:12PMMy 05,202 Trace [12:3 4:5 0 178 [AMWAW 287 ANNA 1652.001 2 ME -37,738 dBm -37,738 dBm
Active Spectrum Analyzer Sneed So Richard Spectrum Analyzer Sneed So Marker 1 616.997600000 10 dB/div Ref Offset 3 dB 10 dB/div Ref 20.00 dBm 10 dB/div Ref 20.00 dBm	Downlink, G		GC	X223 Marker Action See Marker 13.50 Marker Marker 13.50 Marker Marker 10.0 Edition 10.0 Edition 10.0 Edition -	D	Ownlink, GSM		0150:12PMMy 05, 2027 Trace [2:3 4:5 0 0 Tries[Artinx] Mkr1 652.001 2 MHz -37,738 dBm -1300 @b
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Appleto Spectrom Analyzer Sneed So R L 10 100 200 20 Marker 1 616.99760000 10 dB/div Ref 20.00 dBm 10 0 10 0 10 10 0 10 0 1			GC Ar RMS do-100/100 Mkr1 616.997 6 M -34.915 d -34.915	Description Automotion Second	D	Ownlink, GSM	Pre-AGC Avganano Avganano	015012PHM#06,202 TMAC[23456 2012 PH 2012 PH
Apirel Spectrom Analyzer Sweet SW RL 107 1900 AC Marker 1 616.99760000 10 dB/div Ref 20.00 dBm 10 0 10			GC PX RMS PX00/100	Description Action Size Marker Marker HZ 10 dB/dt 100 000 -000 -000	D	Ownlink, GSM		01:50:12 PMMarco, 2022 TMAC [12:3 4:50 met [12:3 4:50 met [2:3
Apient Spectrom Analyzer Sweed SW Ref 0166.99760000 Marker 1 616.99760000 10 dB/div Ref 016st 3 dB 10 dB/div Ref 20.00 dBm 10 0 00 00 00 00 00 00 00 00 00 00 00 00	Downlink, G		GC DER RMS DEV RMS	Autom See In 10 In	D	WININK, GSM		01:50:12 PMMar06, 2022 1786 (12:3:4:50 1786 (12:3:4:50)











5.5 Spurious emissions at antenna terminal

Applicable Standards

According to §2.1051 Measurements required: Spurious emissions at antenna terminals. According to §27.53(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Test Procedure

KDB 935210 D05 Indus Booster Basic Meas v01r04, Clause 3.6.3:

a) Connect a signal generator to the input of the EUT.

b) Set the signal generator to produce the broadband test signal as previously described (e.g., 4.1 MHz OBW AWGN).

c) Set the center frequency of the test signal to the lowest available channel within the frequency band or block.

d) Set the EUT input power to a level that is just below the AGC threshold (see 3.2), but not more than 0.5 dB below.

e) Connect a spectrum analyzer to the output of the EUT using appropriate attenuation as necessary. f) Set the RBW = reference bandwidth in the applicable rule section for the supported frequency band of operation (e.g., reference bandwidth is typically 100 kHz or 1 MHz).

g) Set the VBW \geq 3 × RBW.

h) Set the Sweep time = auto-couple.

i) Set the analyzer start frequency to the lowest radio frequency signal generated in the equipment, without going below 9 kHz, and the stop frequency to the lower band/block edge frequency minus 100 kHz or 1 MHz, as specified in the applicable rule part.

NOTE—The number of measurement points in each sweep must be \geq (2 × span/RBW) which may require that the measurement range defined by the start and stop frequencies be subdivided, depending on the available number of measurement points provided by the spectrum analyzer.

j) Select the power averaging (rms) detector function.

k) Trace average at least 10 traces in power averaging (i.e., rms) mode.

I) Use the peak marker function to identify the highest amplitude level over each measured frequency range. Record the frequency and amplitude and capture a plot for inclusion in the test report.

m) Reset the analyzer start frequency to the upper band/block edge frequency plus 100 kHz or 1 MHz, as specified in the applicable rule part, and the analyzer stop frequency to 10 times the highest frequency of the fundamental emission (see §2.1057). Note that the number of measurement points in each sweep must be \geq (2 × span/RBW) which may require that the measurement range defined by the start and stop frequencies be subdivided, depending on the available number of measurement points provided by the spectrum analyzer.

n) Trace average at least 10 traces in power averaging (i.e., rms) mode.

o) Use the peak marker function to identify the highest amplitude level over each of the measured frequency ranges. Record the frequency and amplitude and capture a plot for inclusion in the test report and provide tabular data, if required.

p) Repeat the procedure with the input test signals tuned to a middle band/block frequency/channel and then a high band/block frequency/channel.

q) Repeat entire procedure with the narrowband test signal.

Scan code to check authenticity

r) Repeat for all authorized frequency bands/blocks used by the EUT.





FCC ID: 2AJAN-6071T

Report No.: LCSA020823010EA



st Data							
t Spectrum Analyzer - Swept SA - RF 50 α AC ker 1 662.900000000 MHz	PNO: Fast IFGain:Low #Atten: 30 dB	ALIGNAUTO Avg Type: RMS Avg Hold:>100/100	10:35:35 AM Mar 06, 2023 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET A N N N N	Aetlent Spectrum Analyzer - Swept SA	IZ PNO: Fast IFGain:Low IFGain:Low	ALIGNAUTO Avg Type: RMS Avg Held>100/100	03:15:08 PM Mar 07, 2023 TRACE 1 2 3 4 5 (TYPE MWWWWW DET A N N N N
Ref Offset 3 dB Maiv Ref 10.00 dBm			-46.063 dBm	Ref Offset 3 dB 10 dB/div Ref 10.00 dBm			-48.538 dBm
				0.00			
			-13.00 dBn	-10.0			-13.00 dBr
				-20.0			
			1	-40.0			
				-50.0			
			adam alla da consulta adda dallar	-60.0	whether a way and a company of the owners of the second	المرافقة الأسور والمراجع والمراجع	man shall be have been a state with some south
All the second				-70.0			
				-80.0			
30.0 MHz BW 100 kHz	#VBW 300 kHz*	Swe	Stop 662.9 MHz ep 78.13 ms (1001 pts)	Start 698.1 MHz #Res BW 100 kHz	#VBW 300 kHz*	Swe	Stop 1.0000 GH ep 37.27 ms (1001 pts
Uplink, AWGN	, Low Channel, Pre-	-AGC(30M~66	2.9MHz)	Uplink, AWG	N, Low Channel, Pre-	AGC(698.1MH	z~1GHz)
Spectrum Analyzer - Swept SA RF 50 Ω AC er 1 5.7430000000000 GHz	SENSE:INT SOURCE OFF	ALIGNAUTO Avg Type: RMS	10:32:11 AM Mar 06, 2023 TRACE 1 2 3 4 5 6	Agilent Spectrum Analyzer - Swept SA Og RL RF 50 Ω AC Marker 1 662.2671000000 MH	SENSE:INT SOURCE OFF	ALIGNAUTO	10:37:04 AM Mar 06, 202 TRACE 1 2 3 4 5
Ref Offset 3 dB	PNO: Fast G Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Held:>100/100	Mkr1 5.743 GHz	Ref Offset 3 dB	PN0: Fast 😱 Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold:>100/100	Mkr1 662.3 MH
div Ref 10.00 dBm			-48.799 dBm	10 dB/div Ref 10.00 dBm			-45.965 dBr
				0.00			
			-13.00 dBn	-10.0			-13.00 dB
				-30.0			
				-40.0			
	James and Marile and and	× ·····	-	-50.0			
				-60.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	gite the second and the second	****
				-70.0			
1 000 CH7			Stop 10 000 CHz	Start 20.0 MHz			Stop 662.0 MH
BW 1.0 MHz	#VBW 3.0 MHz*	Swe	ep 15.00 ms (1001 pts)	#Res BW 100 kHz	#VBW 300 kHz*	Swe	ep 78.13 ms (1001 pt
Uplink, AWG	N, Low Channel, Pre	e-AGC(1GHz~	10GHz)	Uplink, AWG	N, Middle Channel, Pre	e-AGC(30M~6	62.9MHz)
RF 50 Ω AC er 1 698.100000000 MHz	SENSE:PULSE PNO: Fast C Trig: Free Run	ALIGN AUTO Avg Type: RMS Avg Heid:>100/100	03:14:17 PM Mar 07, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWWWW	02 RL RF 50.2 AC Marker 1 5.833000000000 G	HZ PN0: Fast Trig: Free Run	ALIGNAUTO Avg Type: RMS Avg Hold>100/100	10:31:56 AM Mar 06, 202 TRACE 12 3 4 5 TYPE MWWWWW
Ref Offset 3 dB	IFGaint ow BAttern of dB		Mkr1 698.1 MHz -51.512 dBm	Ref Offset 3 dB	IFGain:Low secten. 55 dB		Mkr1 5.833 GH -49.391 dBr
				Log			
			-13.00 dBm	-10.0			-13.00 dB
				-20.0			
				-30.0			+ +
1				-40.0	▲ ¹		
-				-50.0	al and a substance and a substance where and	and the second s	
ingetaglion to many detributions and	lannan nyisis dianakan ito any anakaater	destances we remain the	et o and an international states and the second st	-70.0			
				-80.0		_	
598.1 MHz BW 100 kHz	#VBW 300 kHz*		Stop 1.0000 GHz	Start 1.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz*	Swa	Stop 10.000 GH
100 m12	" VEW SVO KHZ	STATUS	-p or an ine (1001 pres)	MSG	#YEAY 3.3 WITZ	STATUS	

Shenzhen LCS Compliance Testing Laboratory Ltd. Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,

518000, China Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com Scan code to check authenticity



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FCC ID: 2AJAN-6071T

Report No.: LCSA020823010EA

Adient Spectrum Analyzer Smyd SA 28 RL 87 500 AC 500 AC 10 Marker 1 562.267100000 MHz Avg Type: RMS	0:33:29 AM Mar 06, 2023 TRACE 1 2 3 4 5 6	ellent Spectrum Ausyzer - Smyth SA R FF 53 2 4 4 1 SB 56E-PLIE ALISYLAUTO 0314-34 FM Mar 7, 2023 Arakter 1 698, 703800000 MHz 12 3 4 5 6 FMAR [12 3 4 5 6
PROFeat 3 dB MKr	1 662.3 MHz	PHIC Fast C 140 For Add Report Control
0.00		
-10.0	-13.00 dBn	
-200		200
-300		200
	1	1
60.0		60.0
-700	reserved and	augungen bester ihr hen hen het het seinen eine het het seinen einen einen het het seinen het seinen het het seinen het seinen het seinen het het sein seinen het seinen het se
80.0		80.0
Start 30.0 MHz S	Stop 662.9 MHz	Start 698.1 MHz Stop 1.0000 GHZ
Res BW 100 kHz #VBW 300 kHz" Sweep 78.1 MBG BTATUS	3 ms (1001 pts)	Res BW 100 kHz #VBW 300 kHz* Sweep 37.27 ms (1001 pts)
Uplink, AWGN, High Channel, Pre-AGC(30M~662.9M	Hz)	Uplink, AWGN, High Channel, Pre-AGC(698.1MHz~1GHz)
Agilent Spectrum Analyzer - Swigt SA SBISEINT SOURCE OFF ALIQUAUTO 10 BL RF SD Q AC SBISEINT SOURCE OFF ALIQUAUTO 10 Markar 1 5, 75610000000000 CH42 Avia Tune: BMS Avia Tune: BMS Avia Tune: BMS Avia Tune: BMS	0:32:28 AM Mar 06, 2023	glint Spectrum Analyzer - Swept SA 81 82
IFGainLow #Atten: 30 dB	TYPE MWWWWWW DET A N N N N	Marker 1 652.90000000 WHZ Trig: Free Run Avg Held>100/100 Trig: Stee Run Avg Held>100/100 Tri
Ref Offset 3 dB Mkr 10 dB/div Ref 10.00 dBm	1 5.761 GHz -49.536 dBm	Ref Offset 3 dB Mkr1 662.9 MHz 0 dB/d/v Ref 10.00 dBm -49.169 dBm
		0.00
-10.0	-1300.49m	10.0
20.0	-1300 454	
30.0		800
40.0		400
500		soo
80.0	-	60.0
-70.0	-7	e. Boar and a set of the set of t
80.0		
Start 1.000 GHz St	top 10.000 GHz	start 30.0 MHz Stop 662.9 MHz
RKES BW 1.0 MHZ #VBW 3.0 MHZ" Sweep 15.00 MSG STATUS	u ms (1001 pts)	RKES BW 100 KH2 #VBW 300 KH2" Sweep 78.13 ms (1001 pts) 86 STATUS
Uplink, AWGN, High Channel, Pre-AGC(1GHz~10GH	lz)	Uplink, GSM, Low Channel, Pre-AGC(30M~662.9MHz)
R L RF SD R AC SENSE INT SOURCE OFF ALIGNAUTO DD Marker 1 698.100000000 MHz Triar Free Run Avg Type: RMS Avg Type: RMS Avg Type: RMS	1:28:26 PM Mar 06, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWWWW	RL RF SD & AC SENSE:NT] SOURCE OFF ALIGNAUTO OIL29:36 PM Mar06, 2023 Marker 1 5.743000000000 GHz Trace Tip 23 4 5 6 Trace Tip 23 4 5 6 Trace Tip 23 4 5 6
Ref Offset 3 dB Mkr	1 698.1 MHz	IFGainLow #Atten: 30 dB cert/ANNANN Ref Offset 3 dB Mkr1 5.743 GHz
10 dB/div Ref 10.00 dBm	-52.147 dBm	o dB/div Ref 10.00 dBm -49.961 dBm
0.00		
	-13.00 dBn	10.0
30.0		30.0
400 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		±0.0
		500 manufacture and a second and a second and a second and a second a secon
600 Legine Levin a series and a	Konserlensen	
-700		70.0
80.0		
Start 693.1 MHz St #Res BW 100 kHz #VBW 300 kHz* Sweep 37.21	top 1.0000 GHz 7 ms (1001 pts) #	start 1.000 GHz Stop 10.000 GHz Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 15.00 ms (1001 pts)
opiink, Gowi, Low Channel, Pre-AGC(698.1MHz~1GH	⊓∠ <i>)</i>	opiink, Goivi, Low Channel, Pre-AGC(1GHZ~10GHZ)





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FCC ID: 2AJAN-6071T

Report No.: LCSA020823010EA

Agilent Spe OV RL Marker	RF 50	AC 0000 MHz		SENSE:INT SOURC	E OFF ALIO	AVG Type: R	MS	01:26:3 T	7 PM Mar 06, 2023 RACE 1 2 3 4 5 (3 6	ngilent R R L Mari	t Spectrun ker 1 6	n Analyzer RF 198.100	- Swept S/ 50 Ω AC DOOOOOO	0 MHz		SENSE:INT		ALIGNAUTO Avg Type	: RMS	01:27:57 TF	PM Mar 06, 2023
10 dB(div	Ref Offset 3	dB	IFGain:Low	#Atten: 30 di	В			Mkr1 6 -52	62.9 MHz	z	10 48	l Main	Ref Offs	et 3 dB		IFGain:Low	#Atten:	30 dB			Mkr1 6 -40.	98.1 MHz 284 dBm
-10.0									-13.00 dBir		-10.0											-13.00 dBn
-20.0											-20.0											
-30.0											-30.0	.1	_									
-40.0									1		-40.0							-				
-50.0									-		-50.0		1									
-70.0	n.Bh.girnsteine e visiteise	anana ana ang sanaga ang sanaga ang sanaga ang sanaga sanaga sanaga sanaga sanaga sanaga sanaga sanaga sanaga s	enterspiernersternetersbetrebet	าสาของกำระบารจางสรีอา	رويارمي. مريك ا ارتيبيتريزارمي	an high the sum from a	alandikalikara _{pa} n	all a malassingur	warmalanad	4	-70.0	"hillow	weller a	iner-Lipplet	annin man	estanditorrandes	witherman	mennegrand	h babaylan dalam dal	genterer and the second state of the	hidospanala	inthy-tolky.og/litesty.or
-80.0											-80.0		_									
Start 30 #Res B\	0.0 MHz W 100 kHz		#VB	W 300 kHz*			Sweep	Stop 78.13 m	662.9 MHz s (1001 pts	z (L Start #Res	t 698.1 5 BW 1	MHz 00 kHz			#	VBW 300 k	Hz*		Swee	Stop 1 p 37.27 ms	.0000 GHz s (1001 pts)
MSG	Uplink	GSM. N	liddle Cl	nannel.	Pre-A	status GC(30	M~662	9MH	7)	1	nsg	U	olink	GS	M. M	iddle (Channe	l Pre-/	STATUS	8.1MH	z~1GH	7)
Agilent Spe	Ctrum Analyzer - So RF 50	AC ODDOCO CLL		SENSE:INT SOURC	E OFF ALIO		MS	01:29:5	9 PM Mar D6, 2023	3	Agilent R L	t Spectrum	RF	- Swept SA 50 Ω AC	0 MH-		SENSE:INT S	OURCE OFF		RMS	01:25:16	PM Mar 06, 2023
Marker	1 5.7250000	00000 GHz	PNO: Fast G	Trig: Free R #Atten: 30 di	lun B	Avg Hold:>1	00/100	Mkr1 5		7	wark	ker 16	oz.90(00000	UMHZ	PNO: Fast IFGain:Low	Trig: Fo #Atten:	ee Run 30 dB	Avg Hold	>100/100	Mkr1 6	
10 dB/div	Ref Offset 3 Ref 10.00	dB dBm						-49	.420 dBm	n i	10 dB	3/div	Ref Offs Ref 10.	et 3 dB .00 dBm							-57.	584 dBm
0.00											0.00		_					_				
-10.0									-13.00 dBr		-10.0					-						-13.00 dBn
-20.0											-20.0											
-40.0											-40.0							_				
-50.0		want	al Parana Albandara	man		Manghaterstrang	ath a water	Wayn Jarra a gangar d	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		-50.0							_				1
-60.0											-60.0	washe waray	merry		halaparaturk	horas and the	-	and the second	www.waterew		-	-
-70.0											-70.0											
Start 1.0	000 GHz							Stop	10.000 GHz	z	Start	t 30.0 N	AHz								Stop	662.9 MHz
#Res BN	W 1.0 MHz		#VB	W 3.0 MHz*		STATUS	Sweet	o 15.00 m	s (1001 pts	5) M	#Res	5 BW 1	00 kHz			#	VBW 300 k	Hz*	STATUS	Swee	p 78.13 ms	s (1001 pts)
	Uplink	, GSM,	Middle C	Channel	, Pre-A	GC(10	GHz~1	0GHz)				Upliı	nk, G	SM,	High C	hanne	l, Pre-A	GC(30	M~662	.9MHz)	
Agilent Spe	ectrum Analyzer - Se	ept SA		SENSE:INTÍ SOURC	E OFE ALIO	NAUTO		01:28:4	4 PM Mar 06, 2023		Agilent	t Spectrun	n Analyzer	- Swept SA	N		SENSE: INT :	OURCE OFF	ALIGNAUTO		01:29:14	PM Mar 05, 2023
Marker	1 698.1000	0000 MHz	PNO: Fast IFGain:Low	Trig: Free R #Atten: 30 di	un B	Avg Type: R Avg Hold:>1	MS 00/100	T	TYPE MWWWWW DET A NNNN	0 2 0	Mark	ker 1 5	.77900	000000	00 GHz	PNO: Fast IFGain:Low	→ Trig: Fr #Atten:	eeRun 30 dB	Avg Type Avg Hold	: RMS >100/100	T	DET A NNNNN
10 dB/div	Ref Offset 3 Ref 10.00	dB dBm						Mkr1 6 -46	98.1 MHz .114 dBm	n i	10 dB	3/div	Ref Offs Ref 10.	et 3 dB 00 dBm				_	-	1	Mkr1 5 -49.	.779 GHz 818 dBm
0.00											0.00		_					_				
-10.0									-13.00 dBr		-10.0		_			-						-13.00 dBn
-20.0										22	20.0											
-40.0 1											-30.0											
-50.0		_									-50.0				ant m	Managentha	and the states	mark a	and a state of the	and the		
-60.0	ware have	herrich Mileradorpartie	harden	her saferen en la set	unuununduda	hangengenger		where	าษุราวงสาวได้เราไปเส		-60.0	and and a second		Arritania and								~ ~
-70.0											-70.0		-					_				
-80.0											-80.0											
Start 69 #Res B\	98.1 MHz W 100 kHz		#VB	W 300 kHz*		STATUS	Swee	Stop 37.27 m	1.0000 GHz s (1001 pts	z :	Start #Res	t 1.000 5 BW 1.	GHz .0 MHz			#	VBW 3.0 M	Hz*	STATUS	Swee	Stop 1 p 15.00 ms	0.000 GHz (1001 pts)
	Uplink	GSM,⊦	ligh Cha	nnel, P	re-AGC	C(698.	1MHz~	-1GHz)				Upl	ink, (GSM,	High	Chann	el, Pre-	AGC(1	GHz~1)GHz)	





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FCC ID: 2AJAN-6071T

Report No.: LCSA020823010EA

Agilent Sp XI RL Marke	ectrum Analy. RF r 1 615.7	cer - Swept Si 50 Ω AC 2620000	A IO MHz		SENSE: INT SOUR	RCE OFF A	IGN AUTO Avg Type: I	RMS	10:24:0 T	7 AM Mar 06, 2023 RACE 1 2 3 4 5 (iteA NU SM	RL Arker 1	rum Analy RF 1 652.1	7207 - Swept SA 50 Ω AC 100000000 N	MHz		SENSE:INT SOU	RCE OFF	ALIGNAUTO Avg Type:	RMS	10:27:1	5 AM Mar 06, 2023 RACE 1 2 3 4 5 6
	D-606	6+ 2 dD		PNO: Fast G IFGain:Low	#Atten: 30	dB	Avg Hold:>1	100/100	Mkr1 6	15.7 MHz			P-f0	6		PNO:Fast G Gain:Low	#Atten: 30	dB	Avg Hold>	100/100	Mkr1 6	52.1 MHz
10 dB/di	v Ref 1	0.00 dBn	n		1				-46.	.354 dBm	10 Log	dB/div	Ref	10.00 dBm			1			1	-46	.076 dBm
0.00											0.0											
10.0										-13.00 dBr	-10.											-13.00 dBn
20.0											-20.											
30.0											-30	0										
40.0																						
										1												
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60.0	mundering	u.basel-locardos	protitioner	and the second	waijhter and			angunga meningan	menne	فردافه والجربان مارجان فأ	-60.		ager and the second	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	p-track/st	a provense of sources		hanna	ware ware war	han million all survey	a manaparahasa Nar	nhardwaran
70.0				-							-70.	.0										
30.0											-80	.0										
tart 3 Res B	0.0 MHz	7		#VF	300 kHz			Swee	Stop	616.9 MHz	z Sta	art 652	.1 MHz	: Hz		#\/F	3W 300 kHz			Swee	Stop	1.0000 GHz
ia la	NT TOO KI			<i>"</i> "	777 000 KHZ		STATUS	Unce	5 12.41 11	5 (1001 pts	MSG	CO DI	TOOR				577 000 Km		STATUS	Unce	p 42.00 m	5 (1001 pts)
	Dowr	nlink, /	AWGN	I, Low (Channe	el, Pre-	AGC(3	0M~61	6.9M⊦	lz)		D	owr	nlink, AW	VG <mark>N</mark> ,	Low C	Channe	l, Pre-	AGC(6	52.1MI	Iz~1G	Hz)
RL RL	RF	50 Ω AC	00 GHz		SENSE:INT SOUR	RCE OFF A	IGNAUTO Avg Type: I	RMS	10:29:1/ T	0 AM Mar 06, 2023 RACE 1 2 3 4 5 /	Agil G Ma	RL ARKER 4	RF	50 Ω AC	MHz		SENSE:INT SOU	RCE OFF	ALIGNAUTO Avg Type:	RMS	10:25:0	8 AM Mar 06, 2023 RACE 1 2 3 4 5 6
arke	1 3.013	000000	00 012	PNO: Fast IFGain:Low	Trig: Free #Atten: 30	Run dB	Avg Hold>1	100/100		DET A N N N N	N		1010.0	13100000	1	PNO: Fast G Gain:Low	⊃ Trig:Free #Atten:30	Run dB	Avg Hold>	100/100		DET A N N N N N
dB/di	RefOf Ref1	fset 3 dB 0.00 dBm	n						Mkr1 5 -49.	.815 GHz .371 dBm	z 10	dB/div	Ref 0 Ref 1	ffset 3 dB 10.00 dBm							Mkr1 6 -44	16.3 MHz .590 dBm
											- 0.0	.0										
0.0										-13.00 dBm	-10.	.0	_									-13.00 dBm
0.0											-20.	.0										
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0.0											-70.	.0	han	wereter	*************	and the state of t	- Carlo Carlos Carlos					
0.0											-80.	.0										
tart 1.	.000 GHz								Stop	10.000 GHz	z Sta	art 30.0	MHz								Stop	616.9 MHz
Res B	W 1.0 MH	z		#VE	3W 3.0 MHz	*	STATUS	Swee	p 15.00 m	s (1001 pts	#R	es BW	100 kl	Hz		#VE	300 kHz	*	STATUS	Swee	p 72.47 m	s (1001 pts)
	Dow	nlink,	AWG	N, Low	Chann	el, Pre	-AGC(1GHz~	10GHz	z)		Do	own	link, AW	/GN,	Middle	Chani	nel, Pr	e-AGC	(30M~6	616.9M	Hz)
ilent Sp R L	ectrum Analyz RF	ter - Swept S/ 50 Ω AC	Λ		SENSE:INT SOUR	RCE OFF A	IGNAUTO		10:26:5	6 AM Mar 06, 2023	Agil 3	ent Spect	rum Analy RF	yzer - Swept SA 50 Ω AC			SENSE:INT SOU	RCE OFF	LIGNAUTO		10:29:2	8 AM Mar 06, 2023
arke	r 1 652.4	1790000	0 MHz	PNO: Fast IFGain:Low	Trig: Free #Atten: 30	Run dB	Avg Type: I Avg Hold:>1	KMS 100/100	т	TYPE MWWWWW DET A N N N N N	Ma N	arker 1	6.292	2000000000	GHz	PNO: Fast G	⊃ Trig: Free #Atten: 30	Run dB	Avg Type: Avg Hold:>	KMS 100/100	ı	TYPE MWWWWWW DET ANNNNN
dB/di	Ref Of Ref 1	fset 3 dB 0.00 dBm							Mkr1 6 -48.	52.4 MHz .464 dBm	z 10	dB/div	Ref 0	ffset 3 dB 10.00 dBm							Mkr1 6 -49	.292 GHz .743 dBm
°"			-								Lõ,	°										
											- 0.0	10										
0.0										-13.00 dBr	-10.	.0	_									-13.00 dBm
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0.0											-30.	.0										
0.0				-							-40.	.0							1			
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10.0											-80.											
	52 1 MIL-								Char :	1 0000 01-											Dto-	10.000 CH-
Res B	W 100 kH	z		#VE	3W 300 kHz	•		Swee	stop p 42.93 m	s (1001 pts) #R	es BW	1.0 M	Hz		#VE	3W 3.0 MH2	*		Swee	p 15.00 m	s (1001 gHz
۹ ۲	ownli	nk ΔV	VGN	Middle	Chann	el Pre		52 1M	Hz~10	Hz)	MSG	Г		nlink Δ\/	VGN	Middl	e Char	nel P		(1GH-	~1004	-17)
		,	· • • • •	maulo	Junanni		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, J L . I I VI			Î.	L _	• • • •		- UIN,	muuu						·-/





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FCC ID: 2AJAN-6071T

Report No.: LCSA020823010EA

line Spectra Analyzer - Swyd SA R 80 40 Stote NT SORAC SPACE NT SORAC OFF AL33/AUTO 10/23/40/AM14/06, 202 Texter 1 615.726200000 MHz Texter - Texter Analyzer - Anal	Allent Spectrum Audyzer - Swyd SA Species Company
PN0; Faat MAREn: 30 dB Ref Offset 3 dB MKr1 65.7 MH.T	PN0; Fact Tig: res Ruin Arginolo 100 certAnnini IFGaintaw #Atten: 30 dB Mkr1652.8 MHr 0.276 db
odB/div Ref 10.00 dBm -48.304 dBm	10 dB/div Ref 10.00 dBm -48.7/6 dBm
000	-10.0
	-30.0
	40.0
	-50.0 F
	60.0
	70.0
tart 30.0 MHz Stop 616.9 MHz	Start 652.1 MHz Stop 1.0000 GH;
Res BW 100 kHz #VBW 300 kHz* Sweep 72.47 ms (1001 pts) a status	#Res BW 100 kHz #VBW 300 kHz* Sweep 42.93 ms (1001 pts Mag Status
Downlink, AWGN, High Channel, Pre-AGC(30M~616.9MHz)	Downlink, AWGN, High Channel, Pre-AGC(652.1MHz~1GHz)
Stent Spectrum Analyzer - Swept SA RL RF SSU AC 10.28.54 AMMar06, 2023 RL RF SSU AC 10.28.54 AMMar06, 2023 10.28.54 AMMar06, 2023 Rrker 1 6, 35640000000000 GHz Ava Twee: RMS TMARET12: A.4.53 TMARET12: A.4.53	Agtent Spectrum Analyzer - Swept SA 00 RL RL SENSE:RVT SOURCE OFF ALDRAWTO 0133:44 PM Mgr05, 2022 OU RL RF 93.9 A.C. SENSE:RVT SOURCE OFF ALDRAWTO 0133:44 PM Mgr05, 2022 OU Marker 1 61.6 GOOD000000 MHz Ava Tube: RMS TexcEllip 3.4.8
PNO: Fast Trig: Free Run Avg Heid>100/100 Trig: Trig: See Run Avg Heid>100/100 Trig: Marking Avg Avg Avg Avg Avg Avg Avg Avg Avg Av	PHO: Fast Control of the second of the secon
Ref Offset3 dB Mkr1 6.364 GHz dB/div Ref 10.00 dBm -48.957 dBm -48.957 dBm	Ref Offset3 dB Mkr1 616.9 MHz 10 dB/div Ref 10.00 dBm - 46.910 dBm
	-20.0
	-30.0
	40.0
and and the second the second	
	0.0
	70.0
	40.0
tart 1.000 GHz Stop 10.000 GHz Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 15.00 ms (1001 pts	Start 30.0 MHz Stop 616.9 MHz #Res BW 100 kHz #VBW 300 kHz* Sweep 72.47 ms (1001 pts
g status	MSG STATUS
Downlink, AWGN, High Channel, Pre-AGC(1GHz~10GHz) Bent Spectrum Analyzer - Swept SA	Downlink, GSM, Low Channel, Pre-AGC(30M~616.9MHz)
RL RF S0.9. AC SBNSEINT SOURCE OFF ALIGNAUTO 0136:16 PM Mar06, 2023 arker 1 652,447900000 MHz Not Evel Trig: Free Run Avg Type: RMS TRACE [1:2:3:4:5 Date: Evel Trig: Free Run Avg Type: RMS TRACE [1:2:3:4:5	Marker 1 RF S0.9. AC SENSE: INT [SOURCE OFF ALIGNALITY Open 46 prime 76, 2023 5 Marker 1 5.707000000000 GHz Not Sense: INT [SOURCE OFF Avg Type: RM Not Sense: INT [SOURCE OFF Avg Type: RM Not Sense: INT [SOURCE OFF Not Sense:
IFGain:Low #Atten: 30 dB Der ANNNN Ref Offeet 3 dB Mkr1 652.4 MHz	IFGaint.ow #Atten: 30 dB certAINNNI Bef Offeet 3 dB Mkr1 5.707 GH:
o dB/div Ref 10.00 dBm -49.318 dBm	10 dB/div Ref 10.00 dBm -49.382 dBm -49.382 dBm
00	10.0
	500
Lart 552 1 MHz	
Res BW 100 kHz #VBW 300 kHz* Sweep 42.93 ms (1001 pts a	#Res BW 1.0 MHz #VBW 3.0 MHz* Step 10.000 GHz #res BW 1.0 MHz #VBW 3.0 MHz* Step 10.000 GHz
Downlink, GSM, Low Channel, Pre-AGC(652.1MHz~1GHz)	Downlink, GSM, Low Channel, Pre-AGC(1GHz~10GHz)





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Agilent Spectrum Analyzer - Swept	SA AC SENSE:INT SOURCE OFF	ALIGN AUTO 01:34:26 FM Mar 06, 2023	Agilent Spectrum Analyzer - Swept SA	SENSE:INT SOURCE OFF /	LIGNAUTO 01:35:01 PM Mar06, 2023
Marker 1 616.3131000	PNO: Fast C Trig: Free Run IFGain:Low #Atten: 30 dB	Avg/Hold>100/100	Marker 1 652.10000000 M	HZ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold>100/100
Ref Offset 3 dB 10 dB/div Ref 10.00 dB Log	m	Mkr1 616.3 MHz -46.478 dBm	Ref Offset 3 dB 10 dB/div Ref 10.00 dBm		Mkr1 652.1 MHz -53.018 dBm
0.00			0.00		
-10.0		.1100.054	-10.0		.1300 (Etc.
-20.0			-20.0		
-30.0			-30.0		
-40.0		1.	-40.0		
-50.0			-50.0 1		
-60.0			-60.0		
-70.0	der generen heren sitt alle ander openser openser openser openser openser openser openser openser openser opens I		-70.0	and the second	and a standard of the second standard of the second standard standard standard standard standard standard stand
-80.0			-80.0		
Start 30.0 MHz		Stop 616.9 MHz	Start 652.1 MHz		Stop 1.0000 GHz
#Res BW 100 kHz	#VBW 300 kHz*	Sweep 72.47 ms (1001 pts)	#Res BW 100 kHz	#VBW 300 kHz*	Sweep 42.93 ms (1001 pts)
Downlink,	GSM, Middle Channel, Pre	e-AGC(30M~616.9MHz)	Downlink, GSN	A, Middle Channel, Pre-	AGC(652.1MHz~1GHz)
Marker 1 5.734000000	000 GHz	ALIGNAUTO 01:30:23 PM Mar 06, 2023 Avg Type: RMS TRACE [12:3:4:5:6 Avg[Hold>100/100 TVFE[MWWWWW	Marker 1 616.900000000 M	HZ SENSE:INT SOURCE OFF	LIGNAUTO 01:33:19 PM Mar06, 2023 Avg Type: RMS TRACE [12:3:4:5:6 Avg [Hoid>100/100 TryPe]Mwwwww
Ref Offset 3 dB	IFGain:Low #Atten: 30 dB	Mkr1 5.734 GHz	Ref Offset 3 dB	IFGain:Low #Atten: 30 dB	Mkr1 616.9 MHz
10 dB/div Ref 10.00 dB	m 	-49.568 dBm	10 dB/div Ref 10.00 dBm		-51.392 dBm
0.00			0.00		
-10.0		-13.00 dBn	-10.0		-13.00 dBm
-20.0			-20.0		
-30.0			-30.0		
-40.0	↓ 1		-40.0		1
-50.0	water ogen to have a server and a server and	and a second and the second	-50.0		
-60.0			-60.0	herror for the failed and the forest of the	
-70.0			-70.0		
-60.0			60.0		
Start 1.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz*	Stop 10.000 GHz Sweep 15.00 ms (1001 pts)	Start 30.0 MHz #Res BW 100 kHz	#VBW 300 kHz*	Stop 616.9 MHz Sweep 72.47 ms (1001 pts)
Downlink.	GSM. Middle Channel. Pr	e-AGC(1GHz~10GHz)	Downlink, GS	SM. High Channel, Pre-	AGC(30M~616.9MHz)
	· · · · · · · · · · · · · · · · · · ·		,	,	
Agilent Spectrum Analyzer - Swept		ALIGNAUTO 01:36:59 PM Mar 06, 2023 Avg Type: RMS TRACE TIP 2 4 5 4	Agilent Spectrum Analyzer - Swept SA	SENSE:INT SOURCE OFF	LIGNAUTO 01:31:08 PM Mar06, 2023 Avg Type: RMS TRACE 10 2 4 5 4
marker 1 032.7950000	PNO: Fast Fig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold>100/100	marker 1 3.743000000000	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold>100/100 Tyre Multimum Det A NNNN
Ref Offset 3 dB 10 dB/div Ref 10.00 dB	m	-53.723 dBm	Ref Offset 3 dB 10 dB/div Ref 10.00 dBm Log		-49.602 dBm
0.00			0.00		
-10.0		-13.00 dBm	-10.0		-13.00 dBm
-20.0			-20.0		
-30.0			-30.0		
-40.0			-40.0		
-50.0			-50.0	and a stand and and a stand and a	- man when the
-60.0		a Party in the second and a farmer and a fighter than the	-60.0		
-70.0			-70.0		
-80.0			-80.0		
Start 652.1 MHz #Res BW 100 kHz	#VBW 300 kHz*	Stop 1.0000 GHz Sweep 42.93 ms (1001 pts)	Start 1.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz*	Stop 10.000 GHz Sweep 15.00 ms (1001 pts)
MSG			MSG		
Downlink,	GSIVI, High Channel, Pre-A	1GC(652.1MHZ~1GHZ)	Downlink, G	Sivi, High Channel, Pre	-AGC(1GHZ~10GHZ)





5.6 RADIATED SPURIOUS EMISSIONS

Applicable Standards

According to §2.1053 Measurements required: Field strength of spurious radiation. According to §27.53(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Test Procedure

1.EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.

2.A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver RBW=1MHz, VBW=3MHz for above 1GHz, RBW=120KHz, VBW=300KHz for below 1GHz,, And the maximum value of the receiver should be recorded as (Pr).

4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

5.A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) and the Substitution Antenna Gain (Ga) should be recorded after test.

The measurement results are obtained as described below:

Power(EIRP)=PMea- Pcl + Ga

6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.

7.ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi. 8.In order to make sure test results more clearly, we set frequency range as follows table:

FrequencyChannelFrequency RangeVerdictLow9KHz -7GHzPASSLTE FDD Band 71Middle9KHz -7GHzPASSHigh9KHz -7GHzPASS



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FCC ID: 2AJAN-6071T

Report No.: LCSA020823010EA

Test Data

Uplink, Test Frequency 665.5MHz

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Convert Factor	Peak ERP (dBm)	Limit (dBm)	Polarization
116.3	-43.52	3.52	3.00	3.25	2.15	-45.94	-13.00	Н
1331.5	-42.12	5.36	3.00	9.71	2.15	-39.92	-13.00	Н
1996.8	-54.62	6.11	3.00	11.36	2.15	-51.52	-13.00	Н
147.52	-41.85	4.36	3.00	3.62	2.15	-44.74	-13.00	V
1331.5	-43.62	5.43	3.00	9.88	2.15	-41.32	-13.00	V
1996.8	-57.25	6.11	3.00	11.36	2.15	-54.15	-13.00	V
150	1 IL no Testi	18 -		La La	Testing -			IL

Uplink, Test Frequency 680.5MHz

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Convert Factor	Peak ERP (dBm)	Limit (dBm)	Polarization
127.5	-43.65	4.63	3.00	3.57	2.15	-46.86	-13.00	Н
1361.5	-47.52	5.85	3.00	10.03	2.15	-45.49	-13.00	Н
2041.8	-52.63	6.19	3.00	11.41	2.15	-49.56	-13.00	Н
136.3	-43.52	4.43	3.00	3.36	2.15	-46.74	-13.00	V
1361.5	-42.58	5.23	3.00	10.09	2.15	-39.87	-13.00	V
2041.8	-51.52	6.19	3.00	11.41	2.15	-48.45	-13.00	V

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Convert Factor	Peak ERP (dBm)	Limit (dBm)	Polarization
146.3	-44.22	4.23	3.00	3.67	2.15	-46.93	-13.00	Н
1391.3	-41.36	5.43	3.00	9.62	2.15	-39.32	-13.00	Н
2086.8	-53.52	6.24	3.00	11.46	2.15	-50.45	-13.00	Н
156.3	-44.62	4.23	3.00	3.52	2.15	-47.48	-13.00	V
1391.3	-44.63	5.76	3.00	9.62	2.15	-42.92	-13.00	V
2086.8	-50.21	6.24	3.00	11.46	2.15	-47.14	-13.00	V
Downlink, Test Frequency 619.5MHz								

Downlink, Test Frequency 619.5MHz

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Convert Factor	Peak ERP (dBm)	Limit (dBm)	Polarization	
212.3	-40.62	4.75	3.00	3.83	2.15	-43.69	-13.00	Н	
1239.2	-44.32	4.23	3.00	9.81	2.15	-40.89	-13.00	Н	
1858.8	-48.52	5.94	3.00	10.86	2.15	-45.75	-13.00	Н	
216.3	-42.32	4.63	3.00	3.53	2.15	-45.57	-13.00	V	
1239.2	-41.32	4.76	3.00	9.81	2.15	-38.42	-13.00	V	
1858.8	-53.35	5.94	3.00	10.86	2.15	-50.58	-13.00	V	B
Titlest	ing Lab	No	Tittis	ngLab	Ne	Titlestin	Lan	Nel II	o Testing



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Downlink, T	est Frequer	ncy 634.5M	Hz						
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Convert Factor	Peak ERP (dBm)	Limit (dBm)	Polarization	S Testing
167.8	-42.32	4.45	3.00	3.73	2.15	-45.19	-13.00	Н	
1269.3	-43.25	4.63	3.00	9.84	2.15	-40.19	-13.00	Н	
1903.8	-51.25	5.94	3.00	10.86	2.15	-48.48	-13.00	Н	
184.2	-44.23	4.76	3.00	3.55	2.15	-47.59	-13.00	V	
1269.3	-45.63	4.73	3.00	9.84	2.15	-42.67	-13.00	V	
1903.8	-54.32	5.94	3.00	10.86	2.15	-51.55	-13.00	V	

Downlink, Test Frequency 649.5MHz

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Convert Factor	Peak ERP (dBm)	Limit (dBm)	Polarization
121.3	-44.63	4.43	3.00	3.54	2.15	-47.67	-13.00	Н
1299.3	-42.36	4.74	3.00	9.9	2.15	-39.35	-13.00	Н
1948.8	-45.63	5.95	3.00	10.91	2.15	-42.82	-13.00	Н
153.5	-45.32	4.53	3.00	3.66	2.15	-48.34	-13.00	V
1299.3	-46.32	4.73	3.00	9.9	2.15	-43.30	-13.00	V
1948.8	-54.52	5.95	3.00	10.91	2.15	-51.71	-13.00	V

Note:For Outdoor Antenna (Yagi antenna),Indoor Antenna(Omni Antenna);Outdoor Antenna (Panel antenna),Indoor Antenna(Panel Antenna) were estimated ,the report recorded the worst result of Outdoor Antenna (Yagi antenna), Indoor Antenna(Panel Antenna)





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6. Test Instruments

b. I	est instruments					
Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	LTE Test Software	Tonscend	JS1120-1	N/A	N/A	N/A
2	RF Control Unit	Tonscend	JS0806	158060009	2022-06-20	2023-06-19
3	MXA Signal Analyzer	Agilent	N9020A	MY51250905	2022-06-20	2023-06-19
4	DC Power Supply	Agilent	E3642A	N/A	2022-11-24	2023-11-23
5	MXG Vector Signal Generator	Agilent	N5182A	MY47071151	2022-06-20	2023-06-19
6	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2022-06-20	2023-06-19
7	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2022-10-06	2023-10-05
8	EMI Test Software	EZ	EZ-EMC	1	N/A	N/A
9	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2022-06-20	2023-06-19
10	Positioning Controller	MF	MF7082	MF78020803	2022-06-20	2023-06-19
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2022-07-25	2023-07-24
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2022-06-20	2023-06-19
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2022-06-30	2025-06-29
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2020-09-20	2023-09-19
15	Broadband Preamplifier	SCHWARZBECK	BBV9745	9719-025	2022-06-20	2023-06-19
16	EMI Test Receiver	R&S	ESR 7	101181	2022-06-20	2023-06-19
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-06-20	2023-06-19
18	Broadband Preamplifier	LCSTEST	BP-01M18G	P190501	2022-06-20	2023-06-19
19	RF Cable-R03m	Jye Bao	RG142	CB021	2022-06-20	2023-06-19
20	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2022-06-20	2023-06-19
21	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2022-06-20	2023-06-19
22	RF Filter	Micro-Tronics	BRC50718	S/N-017	2022-06-20	2023-06-19
23	RF Filter	Micro-Tronics	BRC50719	S/N-011	2022-06-20	2023-06-19
24	RF Filter	Micro-Tronics	BRC50720	S/N-011	2022-06-20	2023-06-19
25	RF Filter	Micro-Tronics	BRC50721	S/N-013	2022-06-20	2023-06-19
26	RF Filter	Micro-Tronics	BRM50702	S/N-195	2022-06-20	2023-06-19
27	6dB Attenuator	/	100W/6dB	1172040	2022-06-20	2023-06-19
28	3dB Attenuator	/	2N-3dB	/	2022-06-20	2023-06-19
29	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-06-20	2023-06-19





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7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF EUT

Please refer to separated files for Internal Photos of the EUT.





-----THE END OF TEST REPORT------





