

FCC Test Report

Report No.: AGC02031180501TE05

FCC ID : 2AG94-C-8089

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION : WIFI Module

BRAND NAME : C-CHIP

MODEL NAME : C-8089

CLIENT : Shenzhenshi Xinzhongxin Technology Co., Ltd

DATE OF ISSUE : Jun. 01, 2018

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15.247

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Attestation of Global Compliance

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	TO	Jun. 01, 2018	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

1162	
Applicant	Shenzhenshi Xinzhongxin Technology Co., Ltd
Address	Block A3, Dong Huan Industrial Zone, Nanpu Road, Shajin Street, Baoan District, Shenzhen, China
Manufacturer	Shenzhenshi Xinzhongxin Technology Co., Ltd
Address	Block A3, Dong Huan Industrial Zone, Nanpu Road, Shajin Street, Baoan District, Shenzhen, China
Product Designation	WIFI Module
Brand Name	C-CHIP
Test Model	C-8089
Date of test	May 18, 2018 to Jun. 01, 2018
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass Sand Sand Sand Sand Sand Sand Sand Sand
Report Template	AGCRT-US-BGN/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Tested By	Now Zhan	
GC Managed B	Max Zhang(Zhang Yi)	Jun. 01, 2018
Reviewed By	Bore xie	
inespiro deciona.	Bart Xie(Xie Xiaobin)	Jun. 01, 2018
Approved By	Foresto ce	K. K
® Managaran of cooked Compa	Forrest Lei(Lei Yonggang) Authorized Officer	Jun. 01, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "WIFI Module". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

1 of Let 13 described as following
2.412 GHz~2.462GHz
IEEE 802.11b:16.33dBm; IEEE 802.11g:14.58dBm; IEEE 802.11n(20):13.81dBm; IEEE 802.11n(40):9.81dBm
DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
V1.1
V1.1
PCB antenna
0dBi
DC 3.3V

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
SE STATE CONTRACTOR OF SECTION OF	20 100 °	2412 MHZ
SGC MAN	2	2417 MHZ
	3 1 1 1 1 1 1 1 1 1	2422 MHZ
a Colona Companio	604	2427 MHZ
CG Manager	5	2432 MHZ
2400~2483.5MHZ	1 6	2437 MHZ
The Third Company	7 Same and the second of the s	2442 MHZ
of Colonia Compilation of Colonia Colo	8	2447 MHZ
Sec 10	9	2452 MHZ
- iiil	10	2457 MHZ
The Charles of the Completion	2 11 6	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11, For 40MHZ bandwidth system use Channel 3 to Channel 9

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2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	s Modulation	Modulation	Modulation	R	NBPSC	NCI	BPS	NDI	BPS	rate(I	ata Mbps) nsGl
d					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz		
0	1	BPSK	1/2	1 玩	52	108	26	54	6.5	13.5		
1	Cont liance	QPSK	1/2	2	104	216	52	108	13.0	27.0		
2	1 8	QPSK	3/4	2	104	216	78	162	19.5	40.5		
3	(1)	16-QAM	1/2	4	208	432	104	216	26.0	54.0		
4	1	16-QAM	3/4	4 %	208	432	156	324	39.0	81.0		
5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	64-QAM	2/3	6	312	648	208	432	52.0	108.0		
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5		
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0		

	Symbol		Explanation	
CO T	NSS	10.00	Number of spatial streams	
	R	The Compliant	Code rate	
- F Coobal Complian	NBPSC	Allosian	Number of coded bits per single carrier	
NCBPS			Number of coded bits per symbol	
NDBPS			Number of data bits per symbol	
	GI	Altesution	Guard interval	

2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID**: **2AG94-C-8089** filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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4. DESCRIPTION OF TEST MODES

NO.			TE	ST MODE DESCRIPTI	ON	
K 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	一位 测	© #	Jation of Globar ®	Low channel TX	CO"	300
2	The state of Global Control	100°	10°C	Middle channel TX		授訓
3	Vine			High channel TX	TA KE JUN	© # John of Clobal Co.
4	KE Jilli	* 100°	® # Jajon of G	Normal operating	® All Clobs	10 W

Note:

Transmit by 802.11b with Date rate (1/2/5.5/11)

Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54)

Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)

Transmit by 802.11n (40MHz) with Date rate (13.5/27/40.5/54/81/108/121.5/135)

Note:

- The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

EUT	Support

5.2. EQUIPMENT USED IN EUT SYSTEM

5121 2 Q 511 11121 1 T 5 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
Item Equipment		Equipment Model No. ID or Specification		Remark					
1 @	WIFI Module	C-8089	2AG94-C-8089	EUT					
2	PC Adapter	ADC6501TM	N/A	Support					
3	PC	161301-01	N/A	Support					

5.3. SUMMARY OF TEST RESULTS

A good (R) Place and the second secon	
DESCRIPTION OF TEST	RESULT
Output Power	Compliant
6 dB Bandwidth	Compliant
Conducted Spurious Emission	Compliant
Maximum Conducted Output Power SPECTRAL Density	Compliant
Radiated Emission	Compliant
Band Edges	Compliant
Line Conduction Emission	Compliant
	Output Power 6 dB Bandwidth Conducted Spurious Emission Maximum Conducted Output Power SPECTRAL Density Radiated Emission Band Edges

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012			
NVLAP LAB CODE	600153-0			
Designation Number	CN5028			
FCC Test Firm Registration Number	682566			
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0			

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	M ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Power sensor	Aglient	U2021XA	MY54110007	Sep.21, 2017	Sep.20, 2018
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 20, 2017	Jun. 19, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Active loop antenna (9K-30MHz)	A.H.	SAS-562B	N/A	Mar.01, 2018	Feb.28, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2017	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018

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7. OUTPUT POWER

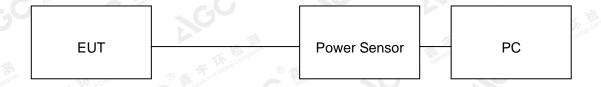
7.1. MEASUREMENT PROCEDURE

For average power test:

- 1. Connect EUT RF output port to power sensor through an RF attenuator.
- 2. Connect the power sensor to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) AVERAGE POWER SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	OUTPUT POWER	CO	100	100
TEST MODE	802.11b with data rate 1		in	The Management of the Samuel o

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	16.04	30	Pass
2.437	16.21	30	Pass
2.462	16.33	30	Pass

TEST ITEM	OUTPUT POWER	® Milestation of Globas	® Attestation of Co.	100
TEST MODE	802.11g with data rate 6	GO 70		:10

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	14.21	30	Pass
2.437	14.33	30	Pass
2.462	14.58	30	Pass

TEST ITEM	OUTPUT POWER	-till	THE
TEST MODE	802.11n 20 with data rate 6.5	The Substitution of the Su	® ### Colored Colored

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	13.25	30	Pass
2.437	13.42	30	Pass
2.462	13.81	30	Pass

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TEST ITEM	OUTPUT POWER	® Franklion of Clobal	(S) Mary and Global Const	© Attestation of C
TEST MODE	802.11n 40 with data rate 13.5	30 , 0		

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.422	9.54	30	Pass
2.437	9.67	30	Pass
2.452	9.81	30	Pass

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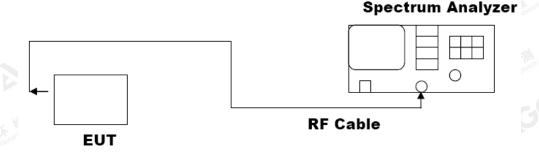
8. 6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW ≥ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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8.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH	® Attestation of Gibb	(S) Allesteion of Globb	(S) Attestation of the Attestati
TEST MODE	802.11b with data rate 11	30	3	

	LIMITS AND MEAS	SUREMENT RESULT	
Applicable Limits	Applicable Limits		
	Test Da	ata (MHz)	Criteria
GO	Low Channel	10.07	PASS
>500KHZ	Middle Channel	10.05	PASS
	High Channel	10.07	PASS

TEST ITEM	6DB BANDWIDTH	(8) Afficiation of Communication of Comm	EG Trestron	Co
TEST MODE	802.11g with data rate 54			

LIMITS AND MEASUREMENT RESULT				
Amaliaahla Limita		Applicable Limits		
Applicable Limits	Test Data (MHz) Criteria			
S	Low Channel	16.38	PASS	
>500KHZ	Middle Channel	16.38	PASS	
© ## philos of Global CV	High Channel	16.37	PASS	

TEST ITEM	6DB BANDWIDTH	ion of Globast ®	Allegation of South	,0	
TEST MODE	802.11n 20 with data rate 6	5		<i>iiii</i>)	水

LIMITS AND MEASUREMENT RESULT						
Appliachle Limite		Applicable Limits				
Applicable Limits	Test Dat	Criteria				
	Low Channel	17.57	PASS			
>500KHZ	Middle Channel	17.58	PASS			
Sebal Commission (S. A. Landing of Colonia Co.	High Channel	17.57	PASS			

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TEST ITEM	6DB BANDWIDTH	® Francisco de Calobal Co	(a) ### 1910 of Global Con.	® Milestation of C
TEST MODE	802.11n 40 with data rate 135	GO - CO	C M	

© ## 1,00° 0'	7 . (19		With Lines	
	LIMITS AND MEASURE	MENT RESULT		
Applicable Limits				
Applicable Limits	Test Data (MHz)		Criteria	
EG **	Low Channel	35.39	PASS	
>500KHZ	Middle Channel	35.41	PASS	
	High Channel	35.38	PASS	

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802.11b TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



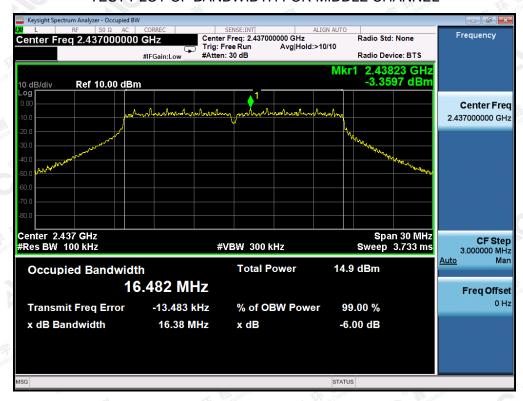
802.11g TEST RESULT
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



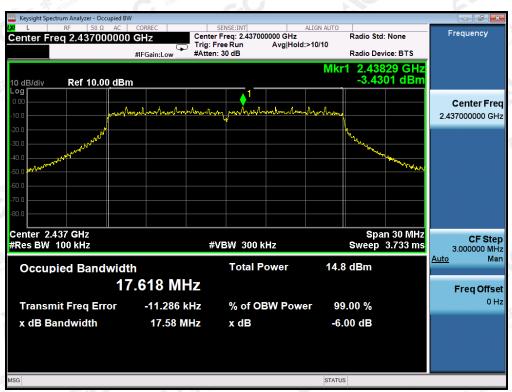
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802.11n (20) TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



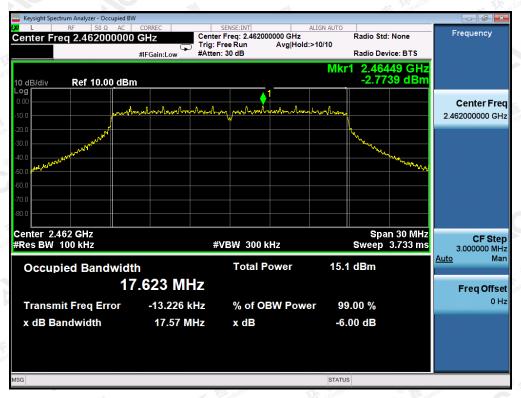
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



802.11n (40) TEST RESULT
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



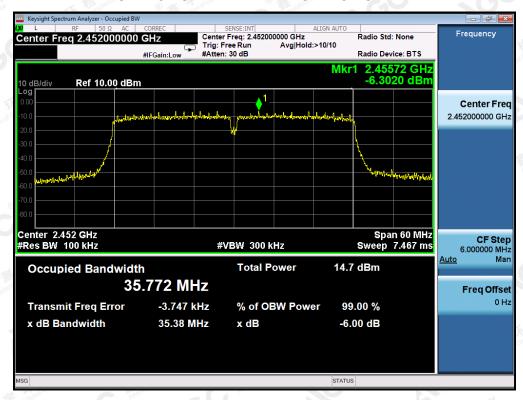
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW>RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW>RBW) are conform to the requirement.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

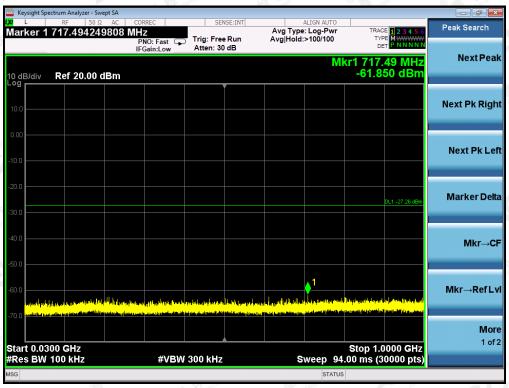
9.4. LIMITS AND MEASUREMENT RESULT

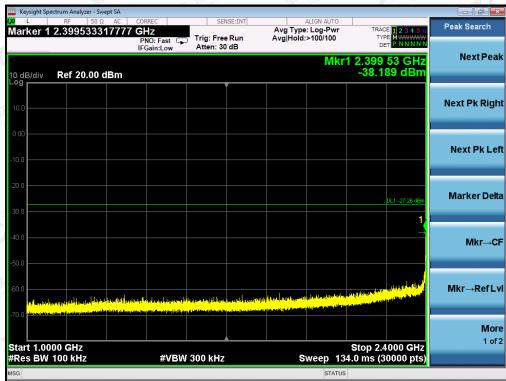
LIMITS AND MEASUREMENT RESULT				
Annih ali la	Measurement Re	esult		
Applicable Limits	Test Data	Criteria		
In any 100 KHz Bandwidth Outside the	At least -30dBc than the limit	The Clothal Company		
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS		
intentional radiator is operating, the radio frequency	Channel			
power that is produce by the intentional radiator		THE STATE OF THE S		
shall be at least 30 dB below that in 100KHz		The Tompianus		
bandwidth within the band that contains the highest		® Marinestation of Glove		
level of the desired power.	At least -30dBc than the limit	PASS		
In addition, radiation emissions which fall in the	Specified on the TOP Channel	PASS		
restricted bands, as defined in §15.205(a), must also		-mil		
comply with the radiated emission limits specified		Compliance ® # Hono		
in§15.209(a))	The Total Control of the Control of	aball Allesto		

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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11b FOR MODULATION IN LOW CHANNEL





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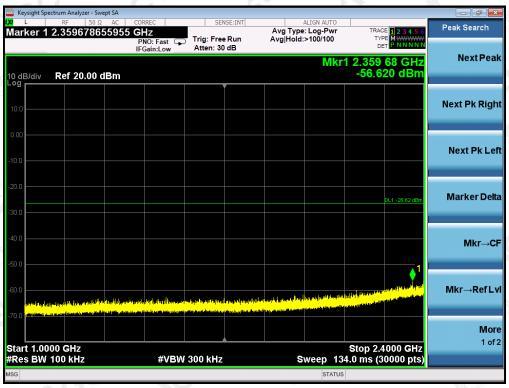


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



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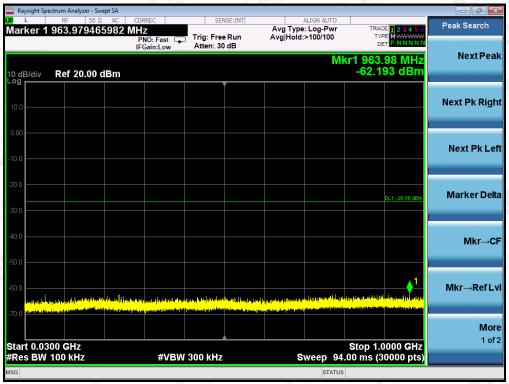


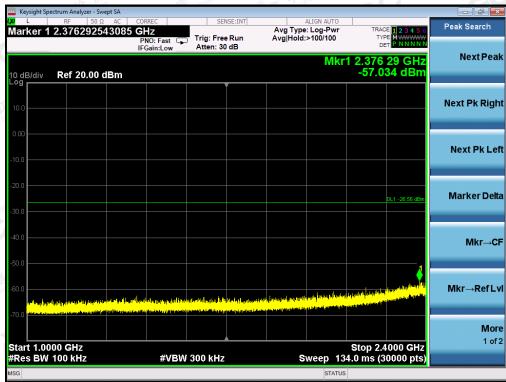


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN HIGH CHANNEL



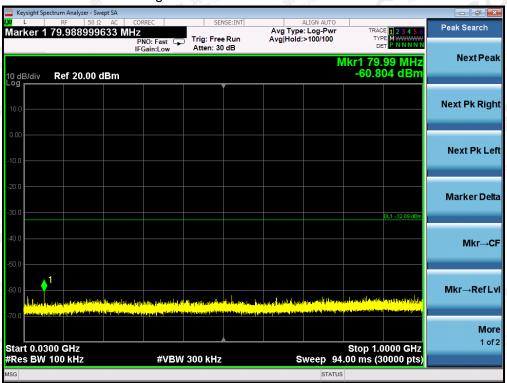


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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL



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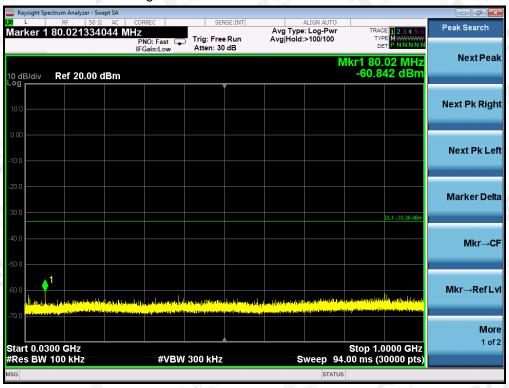


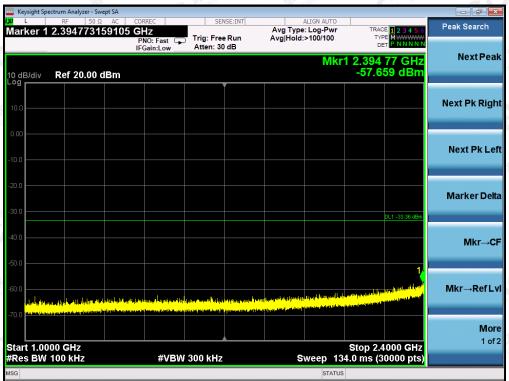


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL



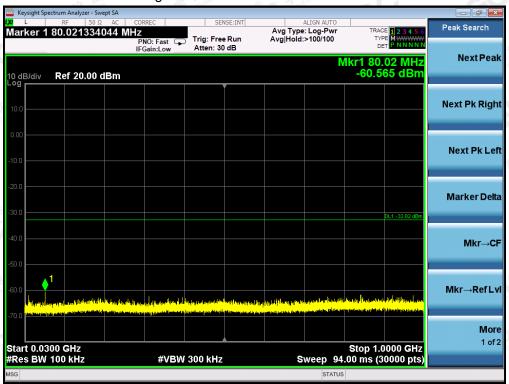


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11q FOR MODULATION IN HIGH CHANNEL



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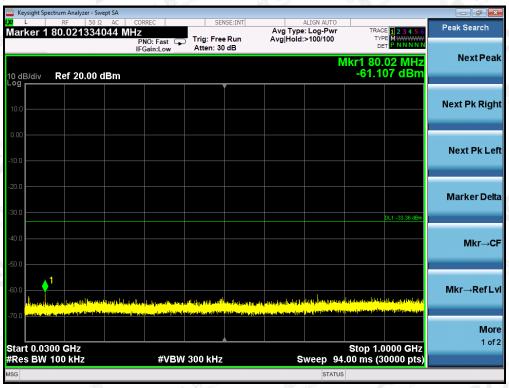


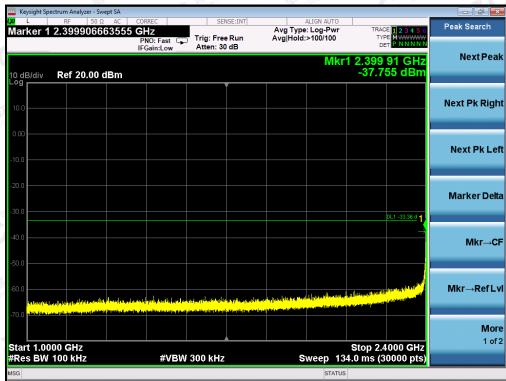


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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL



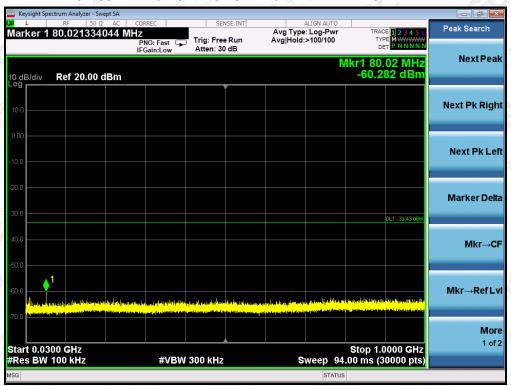


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL



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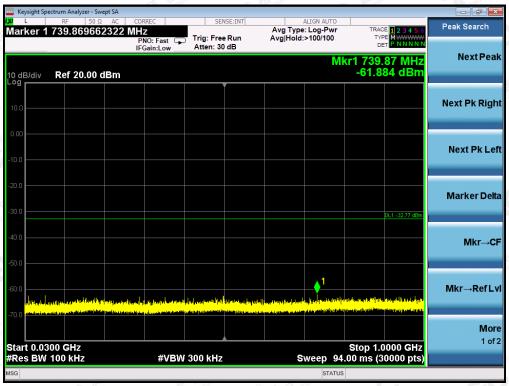


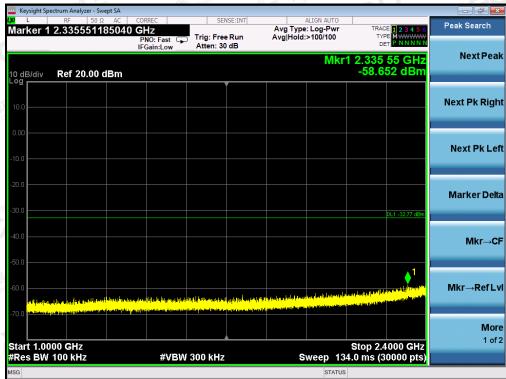


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL





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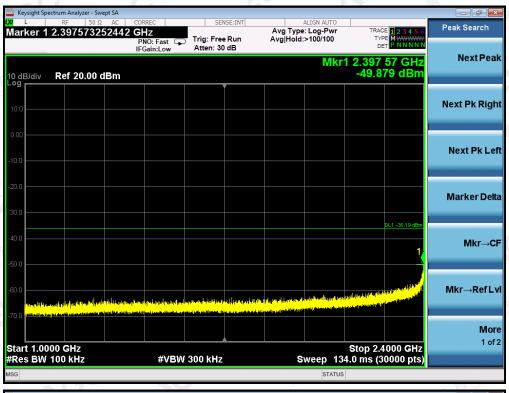


TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n40 FOR MODULATION IN LOW CHANNEL



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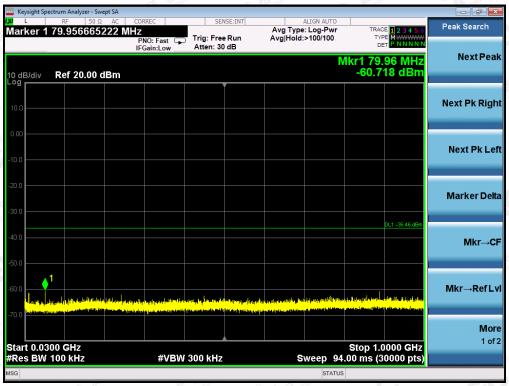


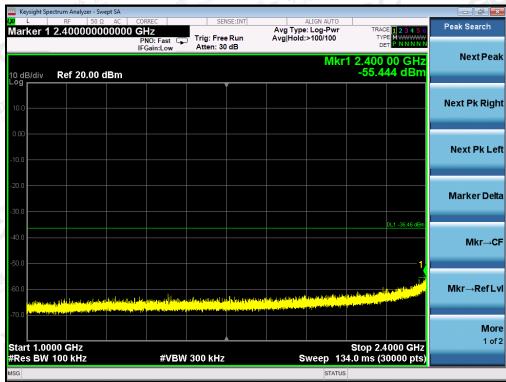


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL



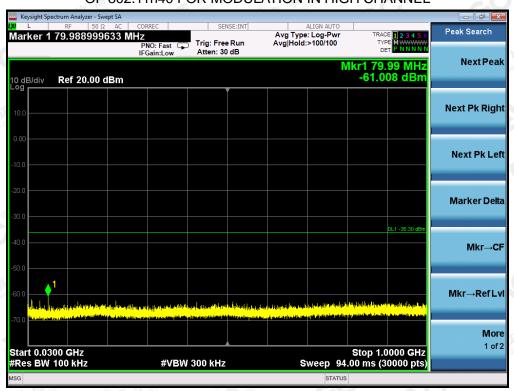


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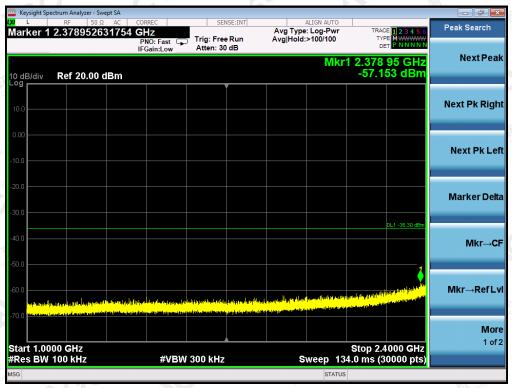


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of AVGPSD-1 in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

TEST ITEM	POWER SPECTRAL DENSITY	K K THE	The God Compliance (6)
TEST MODE	802.11b with data rate 1	© Medialitic of Class	Aller de l'Orione

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-0.101	8	Pass
Middle Channel	0.065	8	Pass
High Channel	0.098	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY		
TEST MODE	802.11g with data rate 6	The Till	® # The of Codes Company

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result	
Low Channel	-8.547	5 8 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pass	
Middle Channel	-8.395	8	Pass	
High Channel	-8.019	8	Pass	

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TEST ITEM	POWER SPECTRAL DENSITY	T. K. Compliance	IN SCHOOL ST
TEST MODE	802.11n 20 with data rate 6.5	Rifestation of Gall	Meaning of Cool

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-9.169	® 4 5 8 CC	Pass
Middle Channel	-9.193	8	Pass
High Channel	-8.954	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY	C	:111
TEST MODE	802.11n 40 with data rate 13.5	The tomplanes	The Manufacture (0)

Channel No. Power density (dBm/20kHz)		Limit (dBm/3kHz)	Result
Low Channel	-11.807	8 Find Comme	Pass
Middle Channel	-11.303	2C 8	Pass
High Channel	-11.166	8	Pass

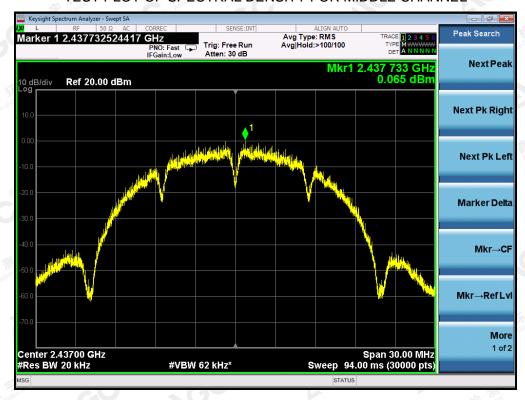
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802.11b TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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