

FCC Test Report

Report No.: AGC01110180556FE05

FCC ID : 2AOKB-Z6111

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION : Soundcore Model Zero+

BRAND NAME : Soundcore

MODEL NAME : Z6111

CLIENT : Anker Innovations Limited

DATE OF ISSUE : Jun. 11, 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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Page 2 of 81

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	TO W	Jun. 11, 2018	Valid	Initial Release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	5
2. GENERAL INFORMATION	6
O A PROPULET PROPULETION OF THE PROPULET OF TH	not Gidnal Court
2.1. PRODUCT DESCRIPTION	6
2.3. IEEE 802.11N MODULATION SCHEME	
2.4. RELATED SUBMITTAL(S) / GRANT (S)	7
2.5. TEST METHODOLOGY	
2.6. SPECIAL ACCESSORIES	7
2.7. EQUIPMENT MODIFICATIONS	
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	The state of the s
4. DESCRIPTION OF TEST MODES	9
5. SYSTEM TEST CONFIGURATION	, in a contract of the contrac
5. SYSTEM TEST CONFIGURATION	10
5.1. CONFIGURATION OF EUT SYSTEM	10
5.2. EQUIPMENT USED IN EUT SYSTEM	
5.3. SUMMARY OF TEST RESULTS	
6. TEST FACILITY	11
7. OUTPUT POWER	12
7.4. MEASUREMENT PROCEDURE	10
7.1. MEASUREMENT PROCEDURE	
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	12
8. 6 DB BANDWIDTH	15
8.1. MEASUREMENT PROCEDURE	
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
8.3. LIMITS AND MEASUREMENT RESULTS	

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9. CONDUCTED SPURIOUS EMISSION	24
9.1. MEASUREMENT PROCEDURE	- C 24
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
9.3. MEASUREMENT EQUIPMENT USED	
9.4. LIMITS AND MEASUREMENT RESULT	
3.4. EINITO AND MEAGOREMENT REGULT	
10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY	43
10.1 MEASUREMENT PROCEDURE	43
10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
10.3 MEASUREMENT EQUIPMENT USED	
10.4 LIMITS AND MEASUREMENT RESULT	43
11. RADIATED EMISSION	
11.1. MEASUREMENT PROCEDURE	51
11.2. TEST SETUP	52
11.3. LIMITS AND MEASUREMENT RESULT	53
11.4. TEST RESULT	53
12. BAND EDGE EMISSION	50
12.1. MEASUREMENT PROCEDURE	
12.2. TEST SET-UP	59
12.3. TEST RESULT	60
13. FCC LINE CONDUCTED EMISSION TEST	76
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST	GO ***
13.2. BLOCK DIAGRAM OF TEST SETUP	
13.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST	
13.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST	
ADDENDIV A. DUOTOOD ADUC OF TEST SETUD	0.0

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Report No.: AGC01110180556FE05 Page 5 of 81

1. VERIFICATION OF CONFORMITY

Applicant	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Manufacturer	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Product Designation	Soundcore Model Zero+
Brand Name	Soundcore
Test Model	Z6111
Date of test	May 30, 2018 to Jun. 11, 2018
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass Sandard S
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 2ha	
GC Marino	Max Zhan	g(Zhang Yi)	Jun. 11, 2018
Reviewed By	The Manual Manua	Bore xie	
and to the state of the state o	Bart Xie(X	(ie Xiaobin)	Jun. 11, 2018
Approved By		Foresto ce	A Manufacture Comment
(Complete and Complete and Comp		Lei Yonggang) ed Officer	Jun. 11, 2018

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Page 6 of 81

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Soundcore Model Zero+". 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

7 tillajor tooriilloar accomption	To Lot is described as following
Operation Frequency	2.412 GHz~2.462GHz
Output Power(Average)	IEEE 802.11b:14.33dBm; IEEE 802.11g:12.85dBm; IEEE 802.11n(20):12.42dBm; IEEE 802.11n(40):10.54dBm
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	
Hardware Version	Rev: A
Software Version	V3.6
Antenna Designation	PIFA Antenna
Antenna Gain	2.35dBi
Power Supply	DC 15V by adapter or DC 7.2V by battery

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
@ Figure Company	20 100 T	2412 MHZ
LGC MINISTER	2	2417 MHZ
70	3 # 500	2422 MHZ
a Contraction (8)	C 4	2427 MHZ
CG Marketon CG And	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
The The state of t	7 Same Control of the	2442 MHZ
of Guidant Committee (S. Allegation of C.	8	2447 MHZ
NO NO	9	2452 MHZ
700	10	2457 MHZ
The Manual Complaints O See 19	11 60	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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Page 7 of 81

2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NC	BPS	NDBPS		rate(I	Data e(Mbps) 00nsGl	
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz	
0	1	BPSK	1/2	1小	52	108	26	54	6.5	13.5	
1 3	1 1 Juanos	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	Manager of Canon of C	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	
NSS	Number of spatial streams	
R	Code rate	
NBPSC	Number of coded bits per single carrier	
NCBPS	Number of coded bits per symbol	
NDBPS	Number of data bits per symbol	
GI	Guard interval	

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

This submittal(s) (test report) is intended for **FCC ID**: **2AOKB-Z6111** 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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Page 8 of 81

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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Page 9 of 81

4. DESCRIPTION OF TEST MODES

NO.		TEST MODE DESCRIPTION	١	
K 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	The state of the s	Low channel TX	· GC *	100
2	E January Colonia	Middle channel TX		授加。
3	No.	High channel TX	The Management	(a) A The of Chapter
4	· · · · · · · · · · · · · · · · · · ·	Normal operating	Station of Globa	10 m

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%
- 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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Page 10 of 81

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :

EUT

Conducted Emission Configure:

	7. 恒	
EUT	ion of Gloral Co.,	AE

5.2. EQUIPMENT USED IN EUT SYSTEM

00	Item	Equipment	Model No.	ID or Specification	Remark
4	1	Soundcore Model Zero+	Z6111	2AOKB-Z6111	EUT
	2	Adapter	DYS602-150400W	DC 15V/4A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

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Page 11 of 81

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, 2019
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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Page 12 of 81

7. OUTPUT POWER

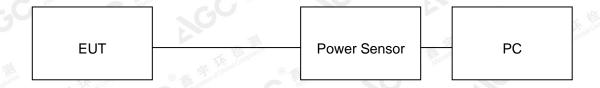
7.1. MEASUREMENT PROCEDURE

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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Page 13 of 81

7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	OUTPUT POWER	100	100°	Co
TEST MODE	802.11b with data rate 1		·mi	The filling

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	13.85	30	Pass
2.437	14.12	30	Pass
2.462	14.33	30	Pass

TEST ITEM	OUTPUT POWER	(S) Attention of Clobs	(C) Allesterion of Co.	100
TEST MODE	802.11g with data rate 6	30 70		

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	12.85	30	Pass
2.437	12.78	30	Pass
2.462	12.66	30	Pass

TEST ITEM	OUTPUT POWER	-till	THE
TEST MODE	802.11n 20 with data rate 6.5	The Suppliance	® ### Colored Colored

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	12.12	30	Pass
2.437	12.42	30	Pass
2.462	12.36	30	Pass

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

Frequency (GHz)	y Average Power Applicable Limits (dBm) (dBm)		Pass or Fail
2.422	10.54	30	Pass
2.437	10.39	30	Pass
2.452	10.42	30	Pass

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Page 15 of 81

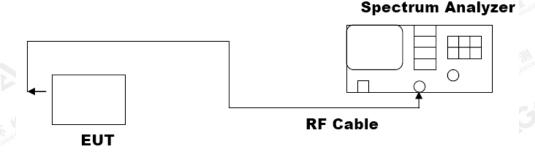
8. 6 DB BANDWIDTH

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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Page 16 of 81

8.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH	(8) Attestation of Give	® Milestation of Globs	(S) Attestation of Attestation of
TEST MODE	802.11b with data rate 11	0 1	30	O min

	LIMITS AND MEAS	SUREMENT RESULT	
Applicable Limits	Applicable Limits Test Data (MHz) Criteria		
1GO	Low Channel	9.041	PASS
>500KHZ	Middle Channel	9.043	PASS
	High Channel	9.042	PASS

TEST ITEM	6DB BANDWIDTH	® Affectation of Co	CG The street	NO.
TEST MODE	802.11g with data rate 54			AND STATE OF THE PARTY OF THE P

LIMITS AND MEASUREMENT RESULT					
	Applicable Limits				
Applicable Limits	Test Data	Criteria			
>500KHZ	Low Channel	15.86	PASS		
	Middle Channel	15.34	PASS		
(a) Marian of Cooper Co	High Channel	15.35	PASS		

TEST ITEM	6DB BANDWIDTH	(S) Afficiation do	: CO	N.C.
TEST MODE	802.11n 20 with data rate 65			· 玉

	LIMITS AND MEASU	UREMENT RESULT		
Appliachle Limite	Applicable Limits			
Applicable Limits	Test Dat	a (MHz)	Criteria	
	Low Channel	16.26	PASS	
>500KHZ	Middle Channel	16.75	PASS	
3 data Communication of Cidade	High Channel	15.47	PASS	

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Report No.: AGC01110180556FE05 Page 17 of 81

TEST ITEM	6DB BANDWIDTH	© Management Clobal Car	® # John of Clobal Com	© Milestation of Co
TEST MODE	802.11n 40 with data rate 135			

LIMITS AND MEASUREMENT RESULT				
Applicable Limite		Applicable Limits		
Applicable Limits	Test Data (N	lHz)	Criteria	
66	Low Channel	35.14	PASS	
>500KHZ	Middle Channel	35.14	PASS	
	High Channel	35.33	PASS	

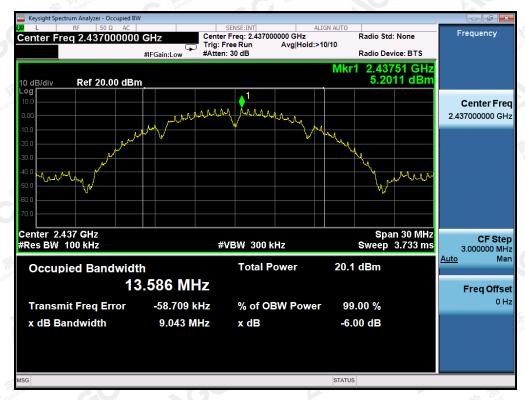
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802.11b TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



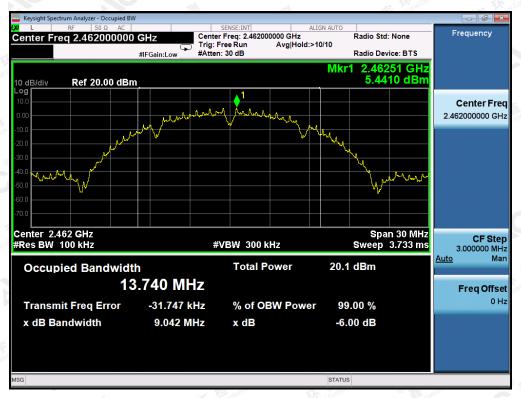
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



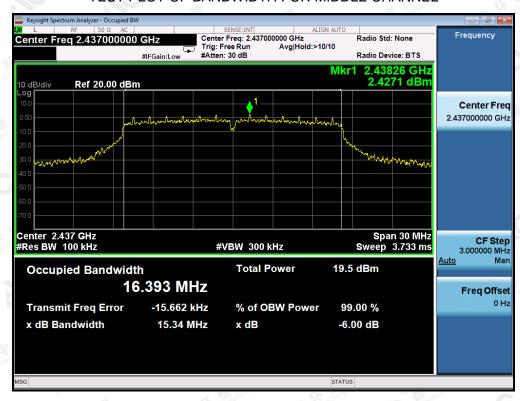
802.11g TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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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



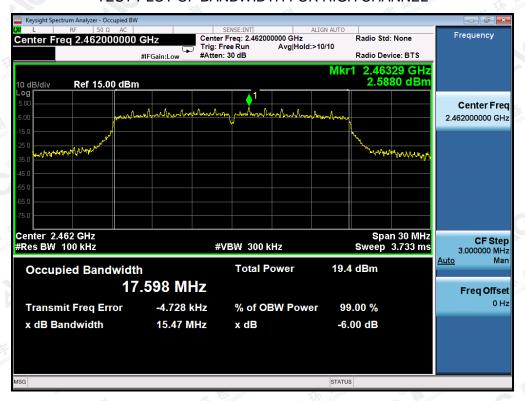
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



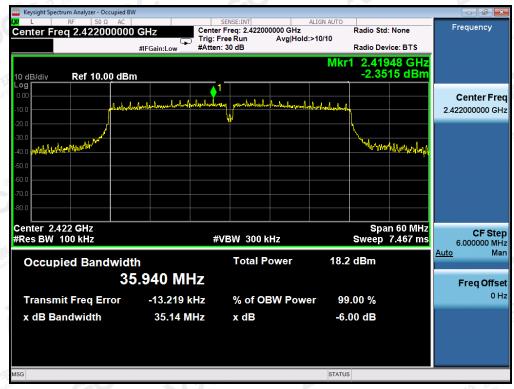
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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



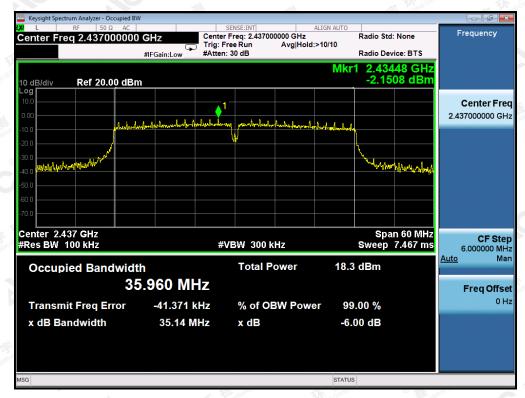
802.11n (40) TEST RESULT
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



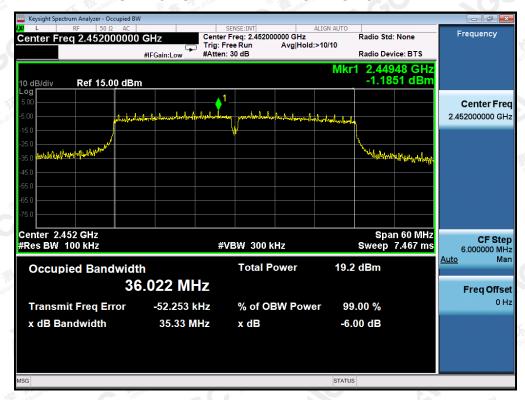
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Page 24 of 81

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

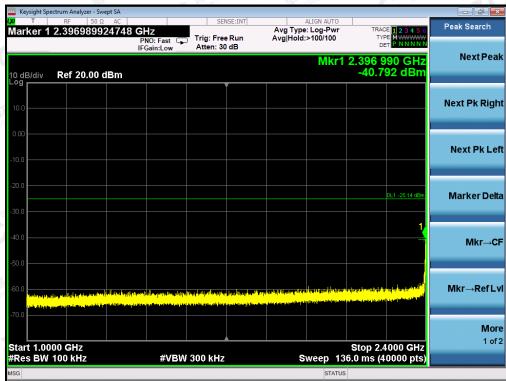
LIMITS AND MEASUREMENT RESULT				
Annih ali la	Measurement Result			
Applicable Limits	Test Data	Criteria		
In any 100 KHz Bandwidth Outside the	At least -30dBc than the limit	The Clothal Company		
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS		
intentional radiator is operating, 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 ® # 31000		
in§15.209(a))	The State Country & The Country of t	abath Alleston		

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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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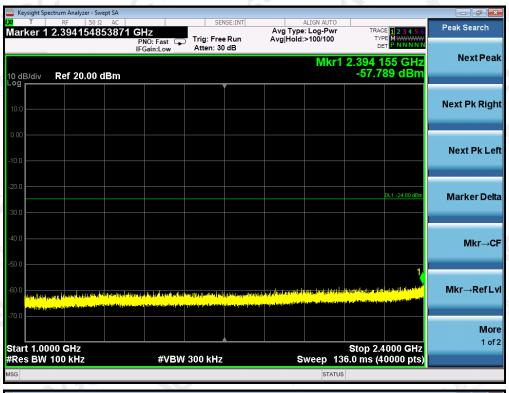


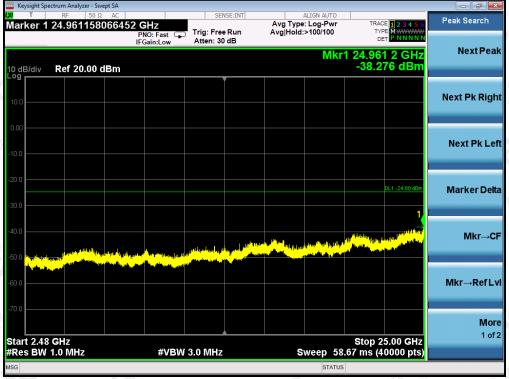
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



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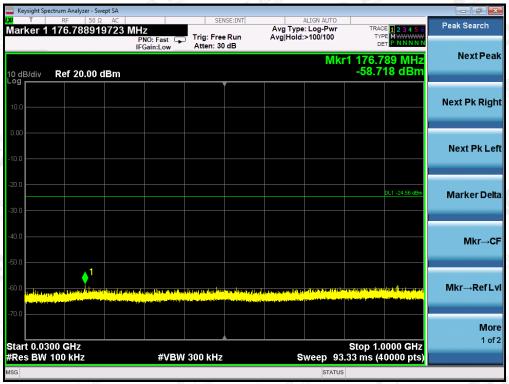


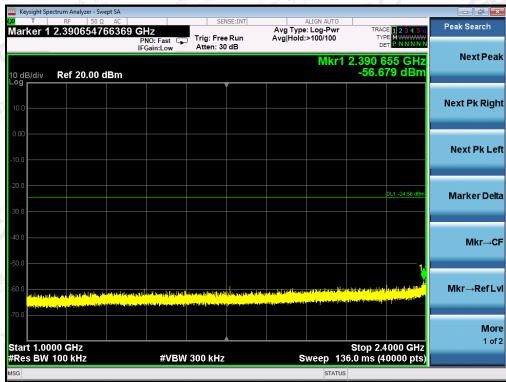


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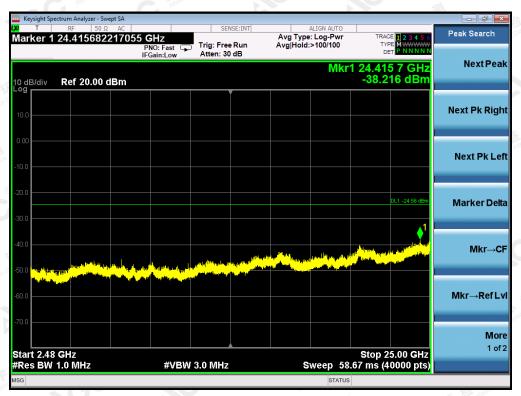
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN HIGH CHANNEL



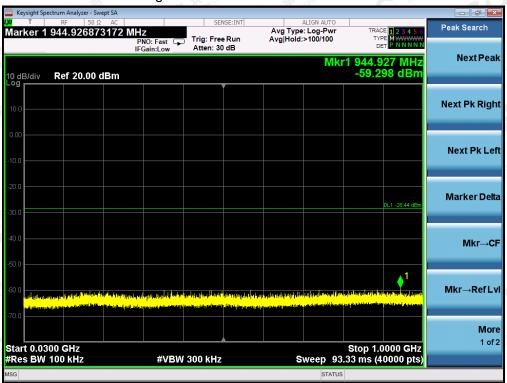


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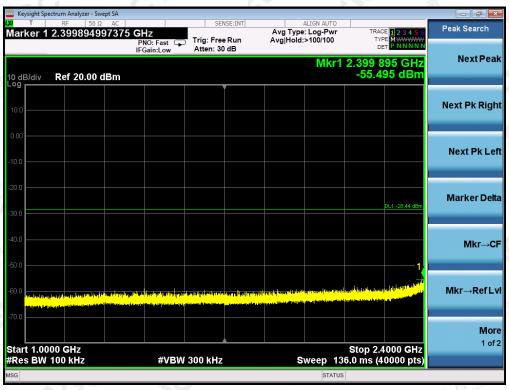


TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL



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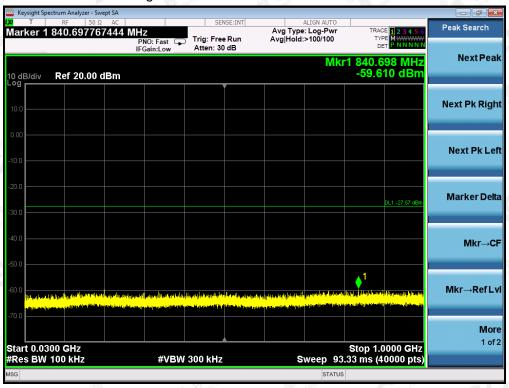


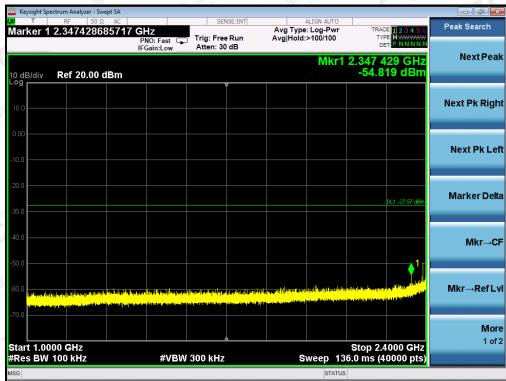


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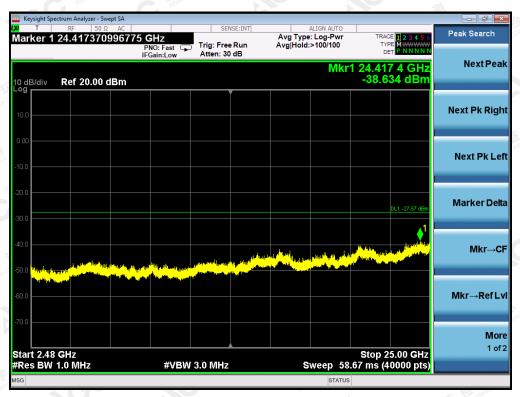
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL



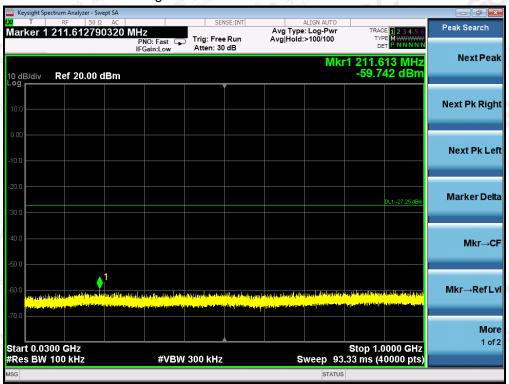


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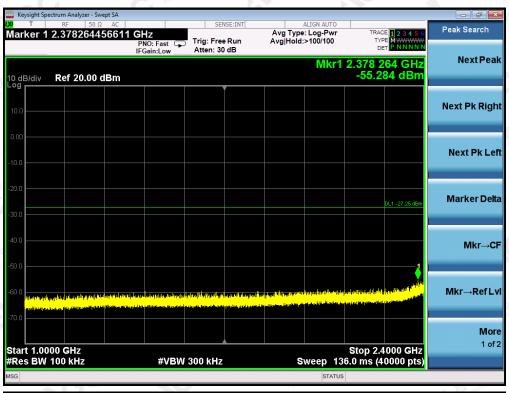


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11q FOR MODULATION IN HIGH CHANNEL



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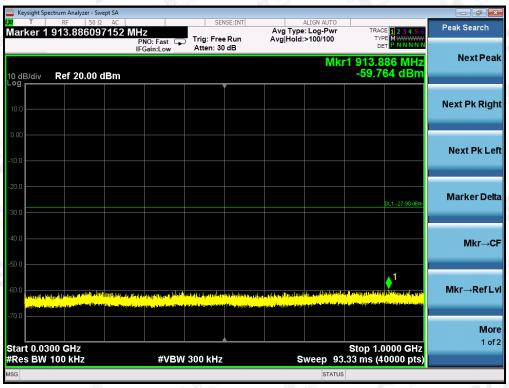


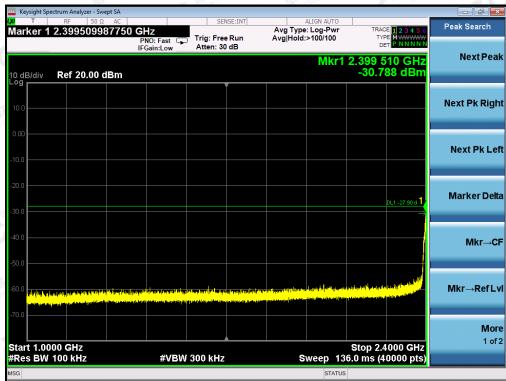


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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL



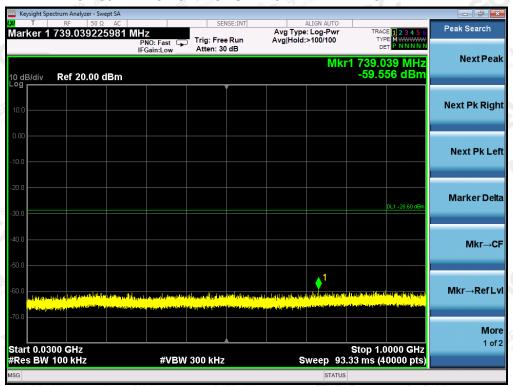


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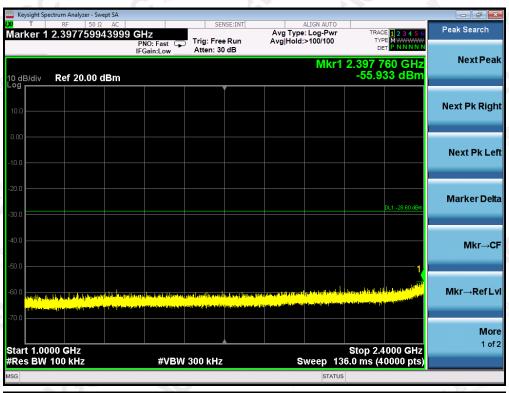


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL



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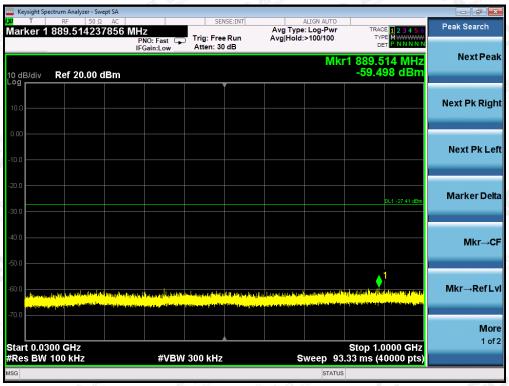


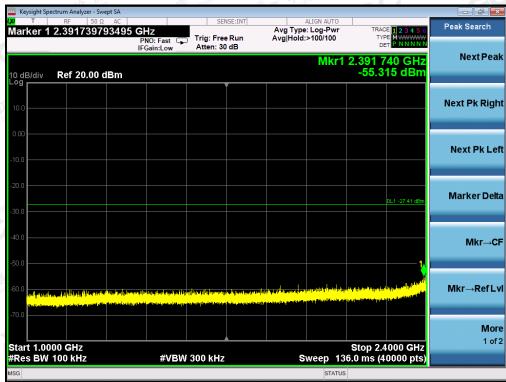


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL





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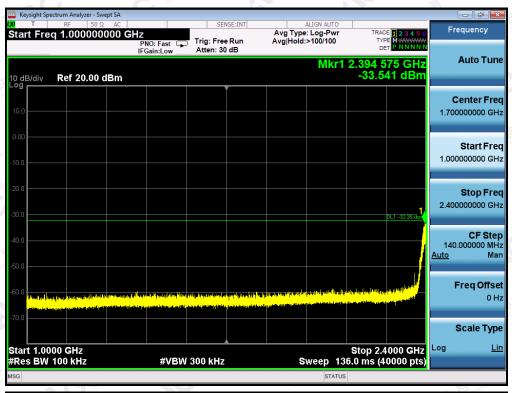


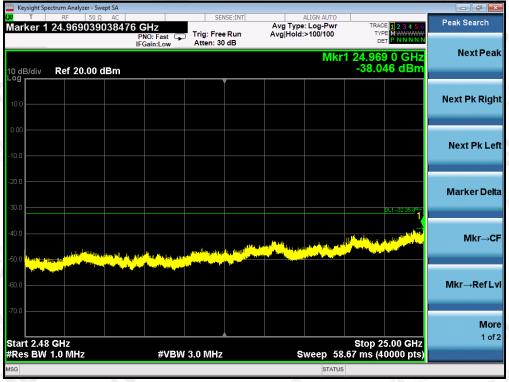


TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n40 FOR MODULATION IN LOW CHANNEL



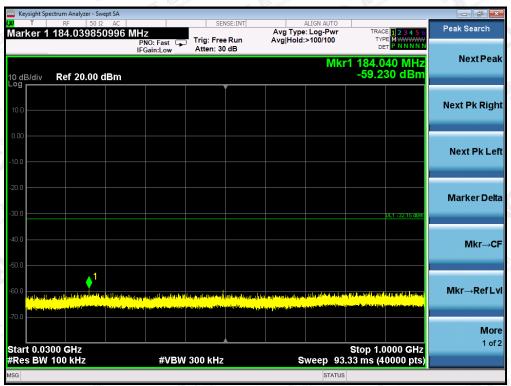


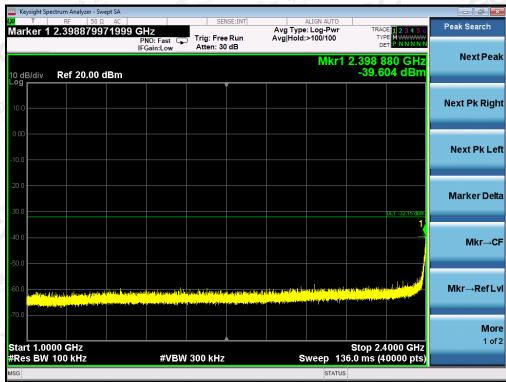






TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL

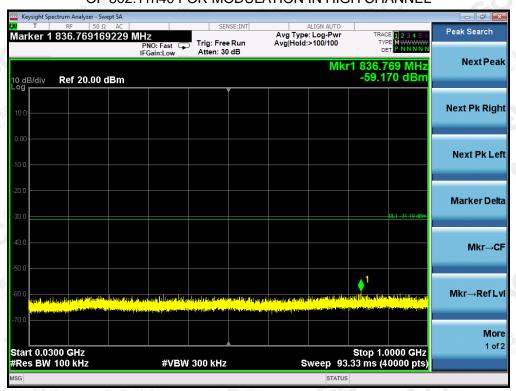








TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN HIGH CHANNEL











Report No.: AGC01110180556FE05

Page 43 of 81

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	The Jonathanes	The Compliance ®
TEST MODE	802.11b with data rate 1	© Medicinion of Citizen	Ades proved

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result Pass	
Low Channel	2.047	8		
Middle Channel	1.134	8	Pass	
High Channel	0.208	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	-1.935	The state of the s	Pass	
Middle Channel	-2.210	8	Pass	
High Channel	-3.535	8	Pass	

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Report No.: AGC01110180556FE05 Page 44 of 81

TEST ITEM	POWER SPECTRAL DENSITY	The Compliance	环 ^技
TEST MODE	802.11n 20 with data rate 6.5	® Allegation of Co.	All and the second seco

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result	
Low Channel	-2.542	0 4 5 6 8 CC	Pass	
Middle Channel	-3.170	8	Pass	
High Channel	-3.344	8	Pass	

TEST ITEM	POWER SPECTRAL DENSITY	100	iii)
TEST MODE	802.11n 40 with data rate 13.5	The Complete	To the standard of the standar

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result	
Low Channel	-5.702	8	Pass	
Middle Channel	-6.225	8	Pass	
High Channel	-6.771	8	Pass	



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



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

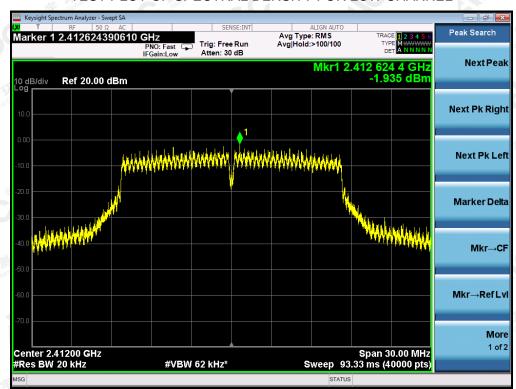




TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

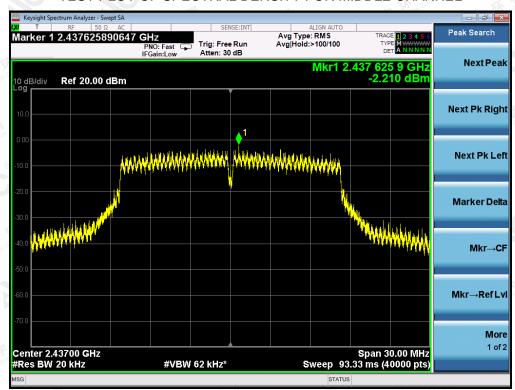


802.11g TEST RESULT
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

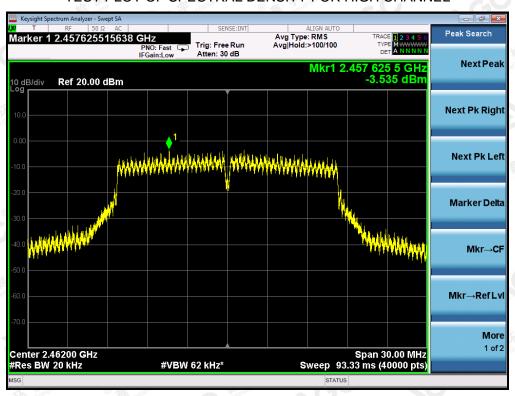




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

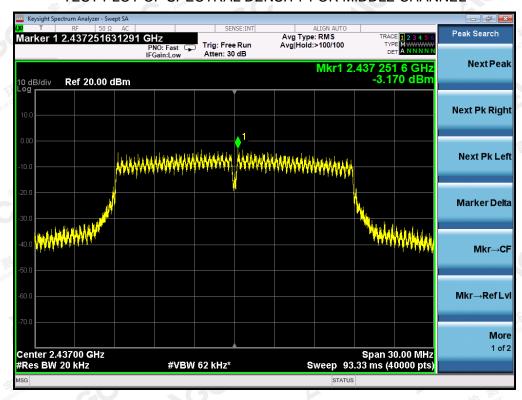




802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

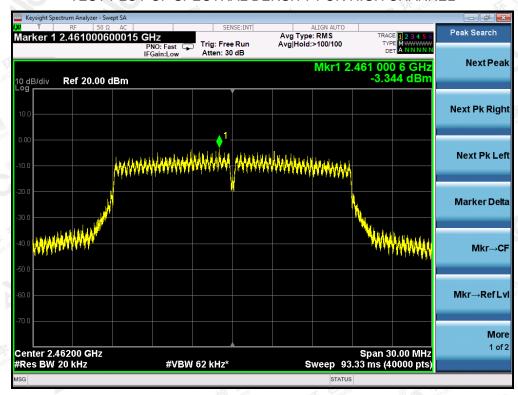


TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

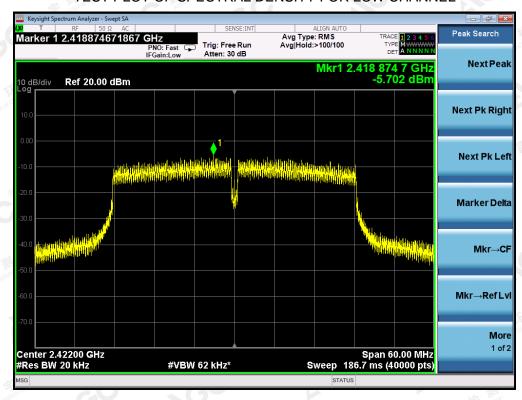




TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

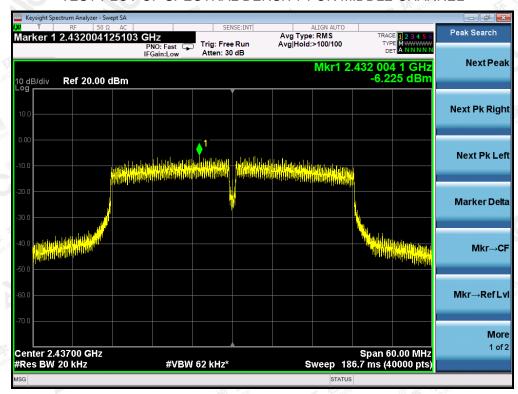


802.11n 40 TEST RESULT
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

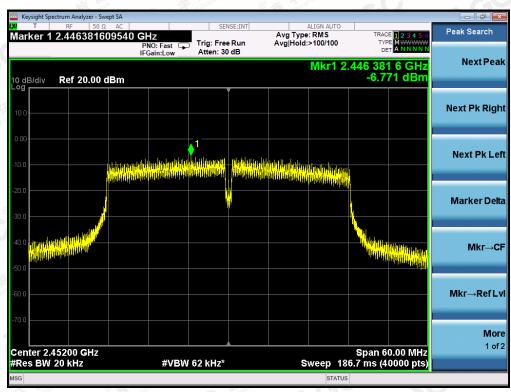




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL





Report No.: AGC01110180556FE05

Page 51 of 81

11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

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

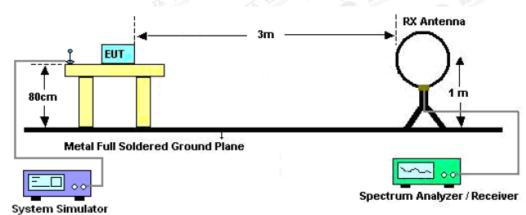
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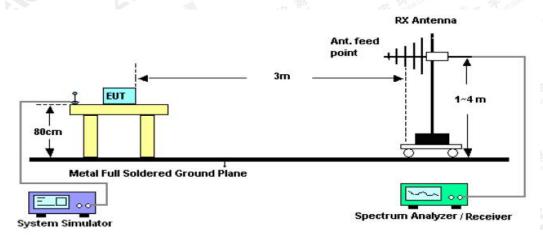


11.2. TEST SETUP

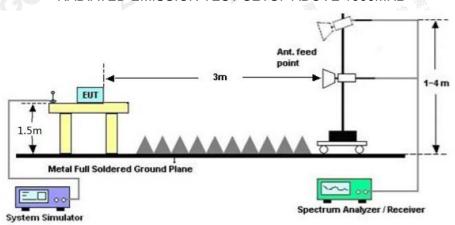
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz





Report No.: AGC01110180556FE05

Page 53 of 81

11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)		
0.009~0.490	2400/F(KHz)	300		
0.490~1.705	24000/F(KHz)	30		
1.705~30.0	30	30		
30~88	100	3		
88~216	150	The state of the s		
216~960	200	3		
Above 960	500	3		

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

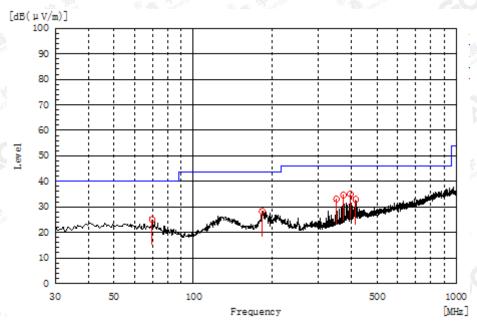
RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.



RADIATED EMISSION BELOW 1GHZ

EUT	Soundcore Model Zero+	Model Name	Z6111
Temperature	25°C %	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
69.770	not H	10.6	14.5	25.1	40.0	14.9	Pass	200.0	341.5
182.775	Н	14.0	14.3	28.3	43.5	15.2	Pass	150.0	311.9
350.100	H	14.2	18.9	33.1	46.0	12.9	Pass	100.0	184.9
372.410	(8) Honor Global	14.8	19.8	34.6	46.0	11.4	Pass	100.0	200.3
395.205	О Н	14.5	20.6	35.1	46.0	10.9	Pass	100.0	231.5
414.605	Н	11.7	21.3	33.0	46.0	13.0	Pass	100.0	212.5

RESULT: PASS