

FCC Test Report

Report No.: AGC00047180201TE05

FCC ID : YMA-S350

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION : Al translator

BRAND NAME : Ease Talk

MODEL NAME : S350, S351, S355, S356, S358, S359

: Idea International Group(Hong Kong)Co., Ltd

DATE OF ISSUE : Apr. 14, 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 "	Apr. 14, 2018	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Idea International Group(Hong Kong)Co., Ltd
5th Blk, Huafeng Technology Park, Tangwei, Fuyong Town, Bao'an District, Shenzhen, China
Shenzhen E-Tech Digital Technology Co., Ltd
5-6/F, BLDG5, HuaFeng Technology Park, Tangwei, Fuyong Town, Bao'an District, Shenzhen, Guangdong, China
Al translator
Ease Talk
S350
S351, S355, S356, S358, S359
Series models has the same function as S350, but appearances in different style.
Apr. 02, 2018 to Apr. 14, 2018
None State of the
Normal Section 1997
Pass
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	Max Zhan	
	Max Zhang(Zhang Yi)	Apr. 14, 2018
Reviewed By	Bore xie	
	Bart Xie(Xie Xiaobin)	Apr. 14, 2018
Approved By	Forresto ce	
	Forrest Lei(Lei Yonggang) Authorized Officer	Apr. 14, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Al translator". 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

Tot Ed 1 is described as following
2.412 GHz~2.462GHz
IEEE 802.11b:9.75dBm; IEEE 802.11g:7.68dBm; IEEE 802.11n(20):7.33dBm; IEEE 802.11n(40):4.33dBm
DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
MT6737V/WM QUAD CA53 1.1GHz
Android 6.0
Internal antenna
-1.5dBi
DC 5V by adapter or DC 3.7V by Battery

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
* Ford Contraction (S. Mary Mary Contraction of Con	20 100 T	2412 MHZ
LGC MAN	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 1	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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2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCI	NCBPS NDBPS rate(Mbps 800nsGl		Mbps)		
ð					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	15	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	雅 1 allon of	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 The state of th	Guard interval

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

This submittal(s) (test report) is intended for **FCC ID: YMA-S350** 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.	1	TEST MODE DESCRIPTION	N	70.00 2000
121 july	ill ill was a second of classes	Low channel TX	100°	100
2	The standard of the standard o	Middle channel TX		超测
3	P	High channel TX	The photogram	® A Thomas Committee
4	报题 报题 O 展示	Normal operating	State Station of Globa	10 - CC

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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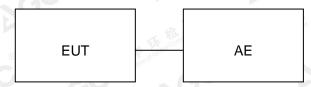
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :

EUT

Conducted Emission Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
9	Al translator	S350	YMA-S350	EUT
2	Adapter	K-T50501000U1	DC5V/1A	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	§15.247 Maximum Conducted Output Power SPECTRAL Density		
§15.209 Radiated Emission		Compliant	
§15.247	Band Edges	Compliant	
§15.207	Line Conduction Emission	Compliant	

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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

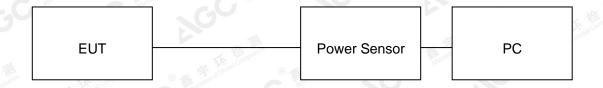
7.1. MEASUREMENT PROCEDURE

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		-mi	TK 10 milliones

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	9.52	30	Pass
2.437	9.75	30	Pass
2.462	9.34	30	Pass

TEST ITEM	OUTPUT POWER	(S) The station of Clobs Co.	© Allestation of Goods	J.G.C
TEST MODE	802.11g with data rate 6	30	3	illi:

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	7.52	30	Pass
2.437	7.68	30	Pass
2.462	7.44	30	Pass

TEST ITEM	OUTPUT POWER	- Till	The Manual Companies
TEST MODE	802.11n 20 with data rate 6.5	The Compliance	© Alle dallon of Colomb

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	7.28	30	Pass
2.437	7.33	30	Pass
2.462	7.15	30	Pass

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TEST ITEM	OUTPUT POWER	® Fredhon of Clobal	® # Aprilon of Global Com	@ Managaration of Co
TEST MODE	802.11n 40 with data rate 13.5	GO CO		

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.422	4.28	30	Pass
2.437	4.33	30	Pass
2.452	4.15	30	Pass

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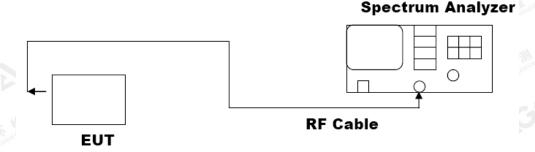
8. 6 DB BANDWIDTH

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	(8) Attestation of Gio	® Arestation of Globs	(S) Attestation of
TEST MODE	802.11b with data rate 11			

	LIMITS AND MEAS	SUREMENT RESULT	
Annliachla Limita		Applicable Limits	
Applicable Limits	Test Da	Criteria	
100°	Low Channel	10.06	PASS
>500KHZ	Middle Channel	10.04	PASS
® A thion of Clobal Co	High Channel	10.04	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 MEASU	REMENT RESULT		
Amaliaahla Limita		Applicable Limits		
Applicable Limits	Test Data (MHz) Criteria			
S	Low Channel	15.12	PASS	
>500KHZ	Middle Channel	15.12	PASS	
© ## philos of Global CV	High Channel	15.13	PASS	

TEST ITEM	6DB BANDWIDTH	ion of Glopse	® Attestation of action	CO	
TEST MODE	802.11n 20 with data rate 6	5 C			玉

	LIMITS AND MEASU	JREMENT RESULT		
Applicable Limite		Applicable Limits		
Applicable Limits	Test Data (MHz)			
	Low Channel	15.14	PASS	
>500KHZ	Middle Channel	15.12	PASS	
3 abar Comm	High Channel	15.70	PASS	

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TEST ITEM	6DB BANDWIDTH	® Management Clobal Co	(Comments of Comments of Comme	(S) Maradion of C
TEST MODE	802.11n 40 with data rate 135	GO " CO		

	LIMITS AND MEASUR	EMENT RESULT			
Applicable Limits					
Applicable Limits	Test Data (MHz)				
CC *	Low Channel	35.15	PASS		
>500KHZ	Middle Channel	35.16	PASS		
	High Channel	35.16	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



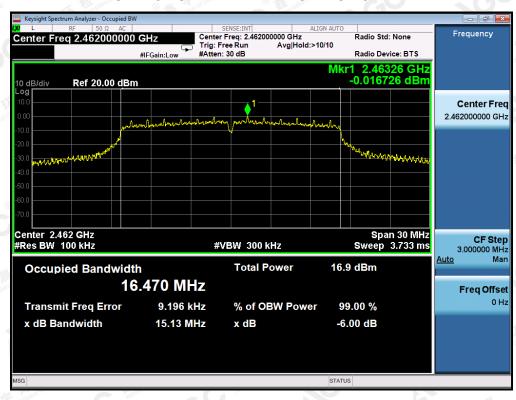
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



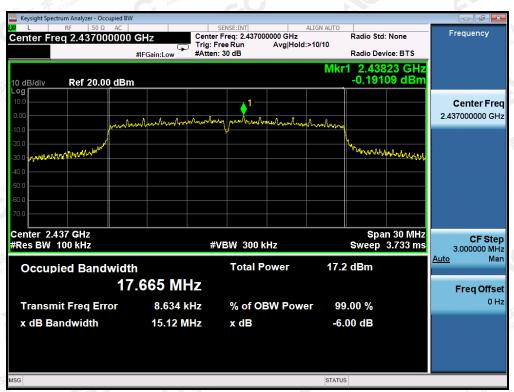
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802.11n (20) TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



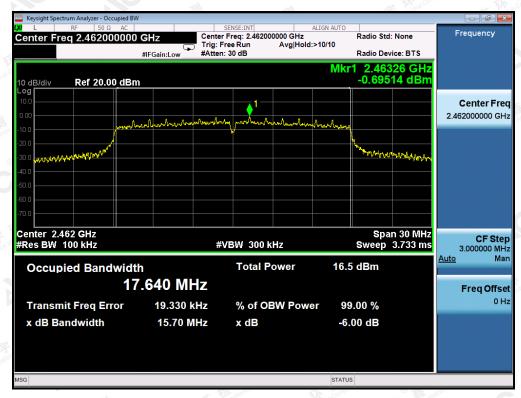
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



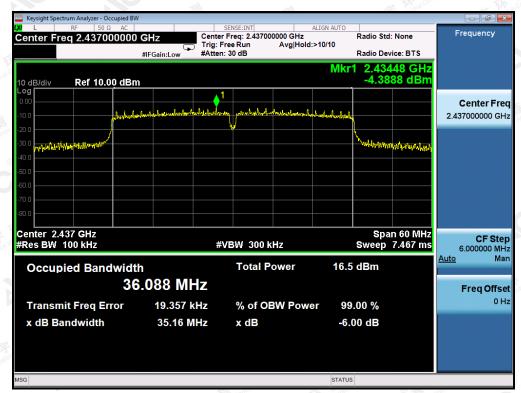
802.11n (40) TEST RESULT
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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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.

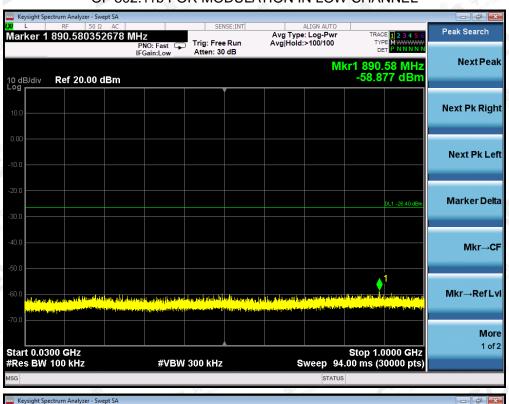
9.4. LIMITS AND MEASUREMENT RESULT

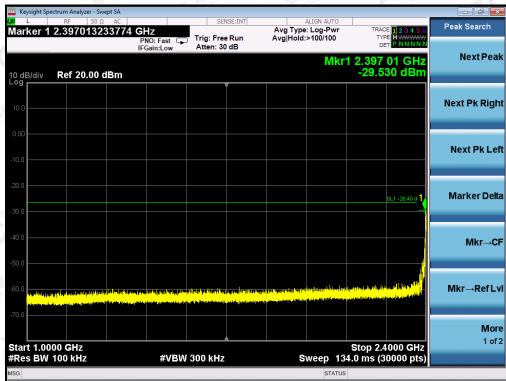
LIMITS AND MEASUREMENT RESULT					
A continuity to the state of th	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 KHz Bandwidth Outside the	At least -30dBc than the limit	S S S S S S S S S S S S S S S S S S S			
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS			
intentional radiator is operating, the radio frequency	Channel				
power that is produce by the intentional radiator					
shall be at least 30 dB below that in 100KHz		The Model Compilar			
bandwidth within the band that contains the highest		(C) The station of Co.			
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	1 700			
restricted bands, as defined in §15.205(a), must also		TI (III)			
comply with the radiated emission limits specified		Compliance ® # Tallon of G			
in§15.209(a))	Plant of the state	obal Alles			

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



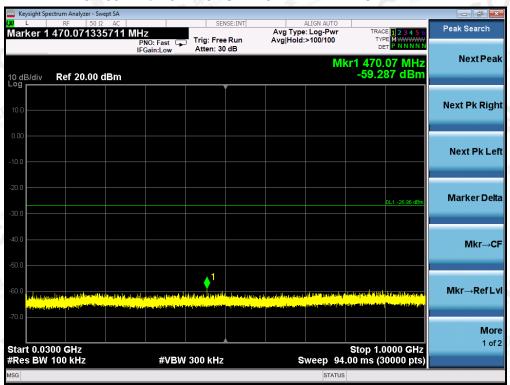


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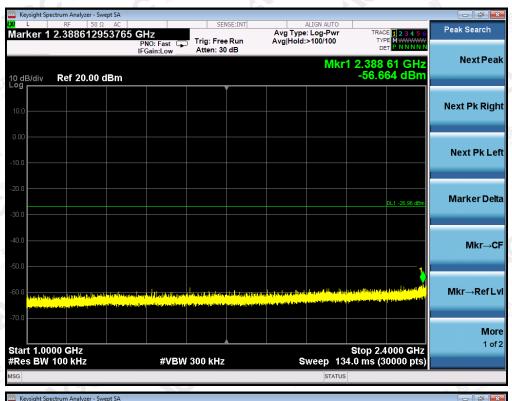


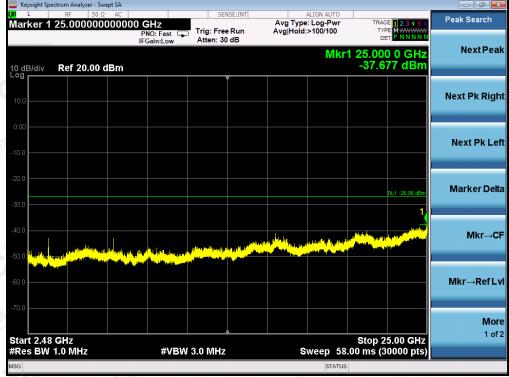
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



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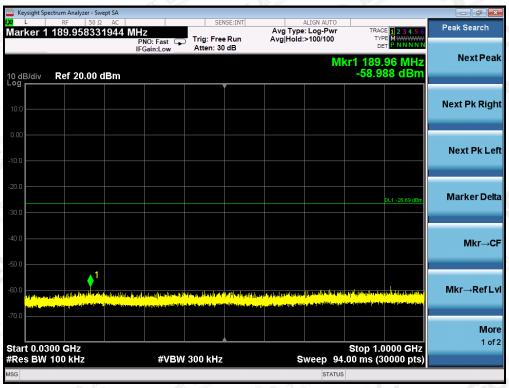


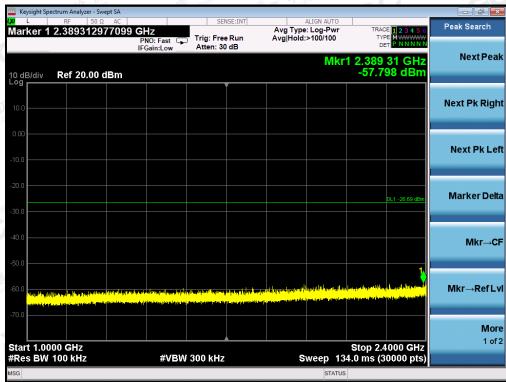


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN HIGH CHANNEL



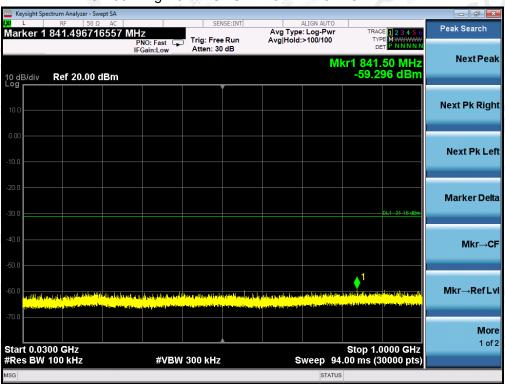


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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL



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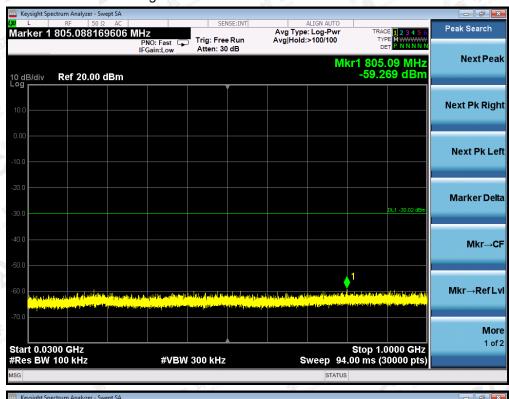


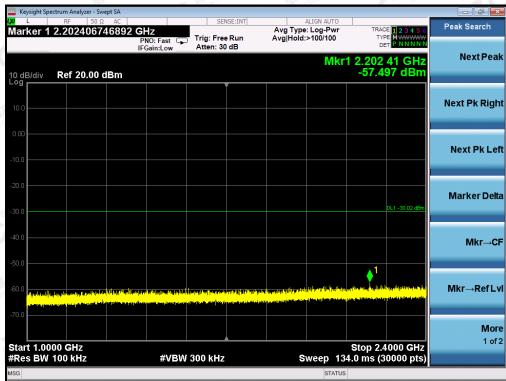


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL



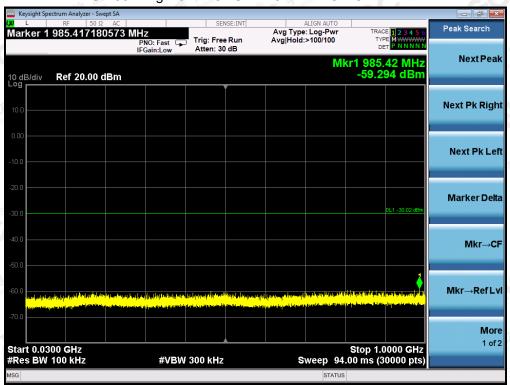


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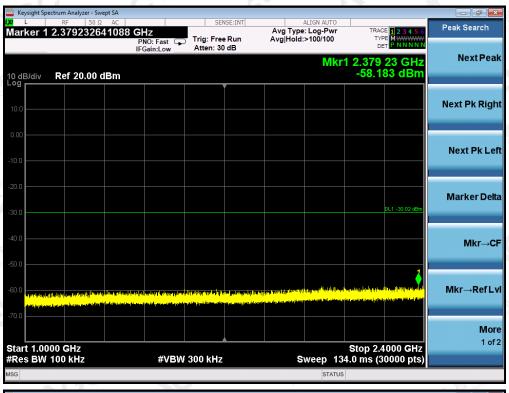


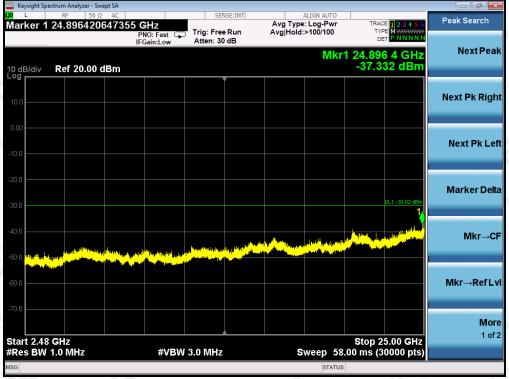
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11q FOR MODULATION IN HIGH CHANNEL



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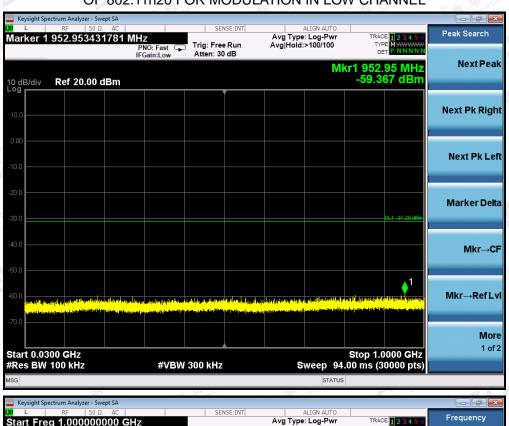


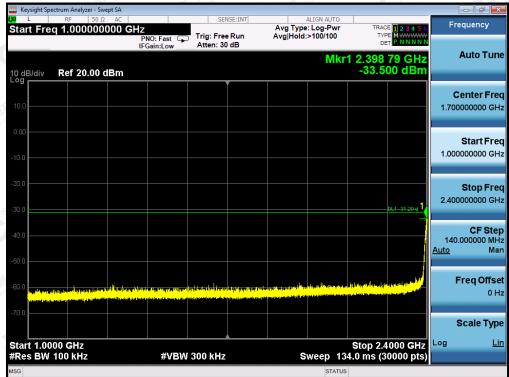


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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL



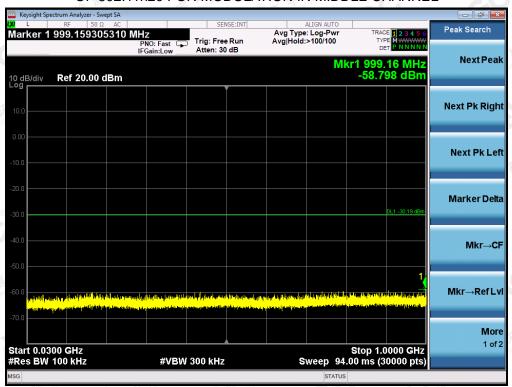


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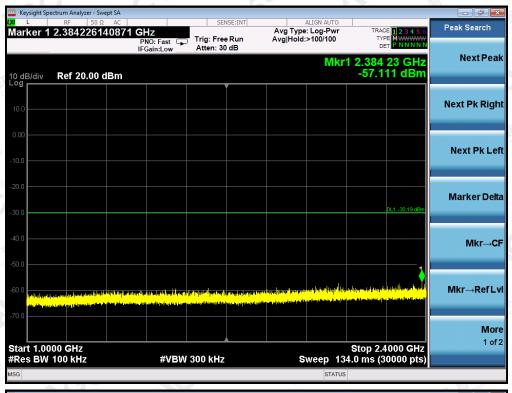


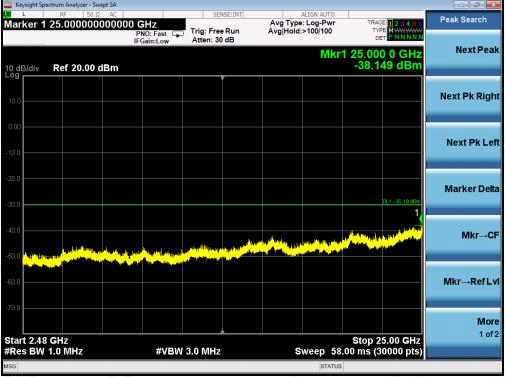
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL



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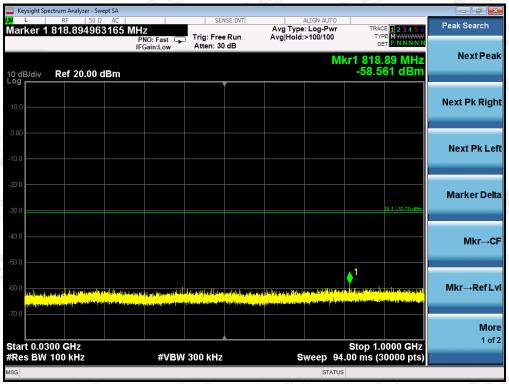


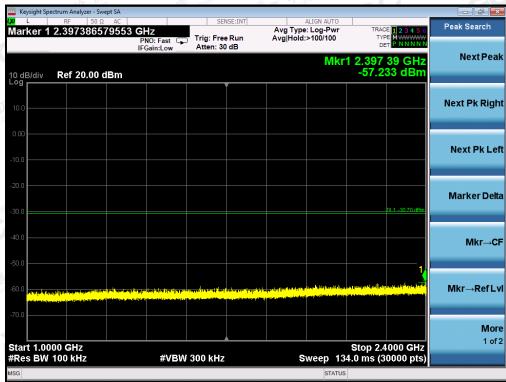


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL



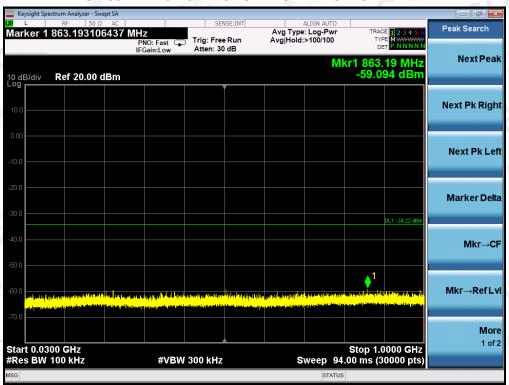


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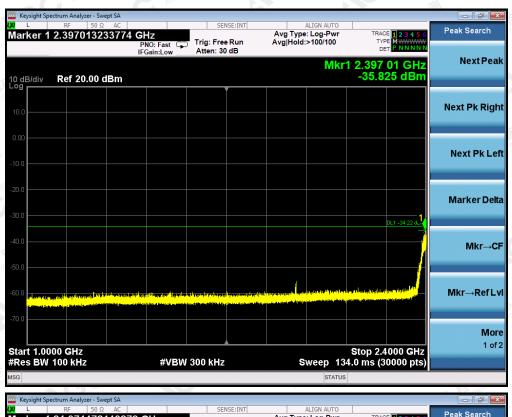


TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n40 FOR MODULATION IN LOW CHANNEL



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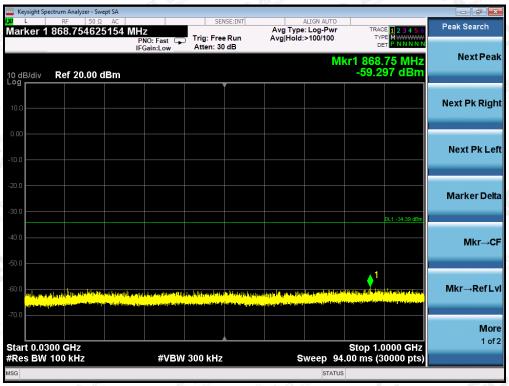


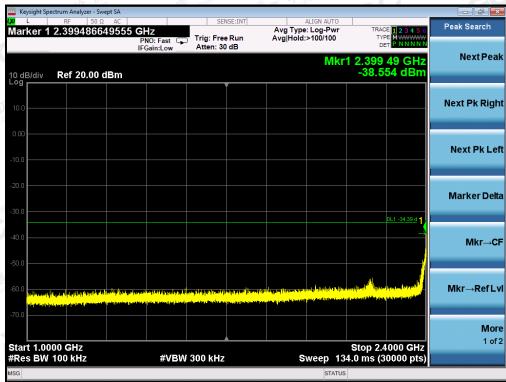


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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL



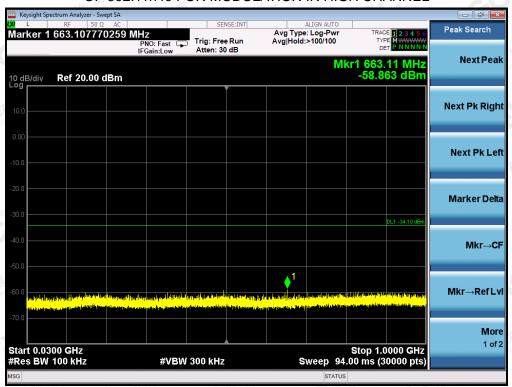


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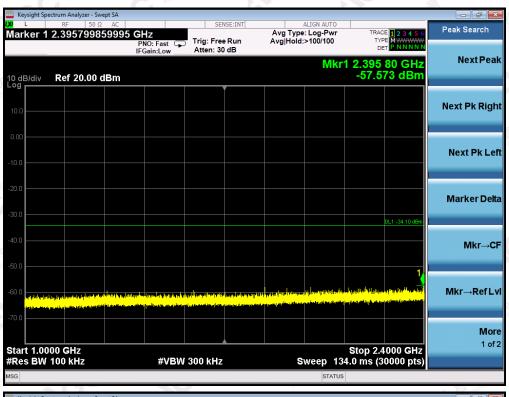


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN HIGH CHANNEL



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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	TK 12 THE	The Schullenge (6)
TEST MODE	802.11b with data rate 1	© Megalibrod Class & C	Aller apriorito

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-5.719	8	Pass
Middle Channel	-5.735	8	Pass
High Channel	-5.724	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY		
TEST MODE	802.11g with data rate 6	To Manufacture	® # John Coloni Committee

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-6.792	The Communication 8 If the Communication of the Com	Pass
Middle Channel	-5.701	8 Superation	Pass
High Channel	-6.034	8	Pass

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TEST ITEM	POWER SPECTRAL DENSITY	The transfer	The Table of the Companies	4 5
TEST MODE	802.11n 20 with data rate 6.5	(C) Allestation of Gas	(8) Augustation of Global	(R) Allestation of

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result	
Low Channel	-6.693	0 48 CC	Pass	
Middle Channel	-4.958	8	Pass	
High Channel	-5.403	8	Pass	

TEST ITEM	POWER SPECTRAL DENSITY	C	:111
TEST MODE	802.11n 40 with data rate 13.5	The Complainte	The Separation of the Separati

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-10.128	8 7 7	Pass
Middle Channel	-10.649	8	Pass
High Channel	-10.988	8	Pass

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