

# **FCC Test Report**

Report No.: AGC07835190401FE04

FCC ID : 2ASZPKJ200G-A

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION** : Air Purifier

BRAND NAME : OLS NASH

**MODEL NAME** : KJ200G-A3A, AP-1

**CLIENT** : Guangzhou Olansi Water Treatment Equipments Co., Ltd.

**DATE OF ISSUE** : May 05, 2019

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15.247

**REPORT VERSION**: V1.0

## Attestation of Global Compliance (Shenzhen) Co., Ltd

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## REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	10	May 05. 2019	Valid	Initial Release

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## 1. VERIFICATION OF CONFORMITY

Applicant	Guangzhou Olansi Water Treatment Equipments Co., Ltd.
Address	5F., Building C5, Gaosha Industry Zone, Zhongcun, Panyu, Guangzhou, China
manufacturer	Guangzhou Olansi Water Treatment Equipments Co., Ltd.
Address	5F., Building C5, Gaosha Industry Zone, Zhongcun, Panyu, Guangzhou, China
Factory	Guangzhou Olansi Water Treatment Equipments Co., Ltd.
Address	5F., Building C5, Gaosha Industry Zone, Zhongcun, Panyu, Guangzhou, China
Product Designation	Air Purifier
Brand Name	OLS NASH
Test Model	KJ200G-A3A
Series Model	AP-1
Declaration of Difference	All the same except for the model name
Date of test	Apr. 09, 2019 to Apr. 29, 2019
Deviation	None None
Condition of Test Sample	Normal
Test Result	Pass
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	frik Jong	
GC TO	Erik Yang(Yang Jianmin)	Apr. 29, 2019
Reviewed By	Now Zhang	
NGC "	Max Zhang(Zhang Yi)	May 05, 2019
Approved By	Forrest ce	
C Mestalino d Goodin	Forrest Lei(Lei Yonggang) Authorized Officer	May 05, 2019

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## 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

The EUT is designed as "Air Purifier". 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

Operation Frequency	2.412 GHz~2.462GHz
Output Power(Average)	IEEE 802.11b: <b>12.53</b> dBm, IEEE 802.11g: <b>11.48</b> dBm; IEEE 802.11n(20): <b>11.83</b> dBm
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	11
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	2.5dBi
Power Supply	AC 120V 50W

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
@ Figure Company	20 100 T	2412 MHZ
LGC I	2	2417 MHZ
700	3 4 5	2422 MHZ
S S S S S S S S S S S S S S S S S S S		2427 MHZ
	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
The Third Company	7 © Manual Comment	2442 MHZ
Actional Complement (S. American art Complement Complem	8 8	2447 MHZ
NGO NG	9	2452 MHZ
:111	10	2457 MHZ
The Manufacture (S. S. A.	11 60	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11

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#### 2.3. IEEE 802.11N MODULATION SCHEME

MCS Index Nss Modu	Nss	Modulation R	Modulation	odulation R	NBPSC	NCI	BPS	NDI	BPS	rate(I	ata Mbps) nsGl
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz	
0	1	BPSK	1/2	11	52	108	26	54	6.5	13.5	
1	Con Niance	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 1	208	432	156	324	39.0	81.0	
5	器 1 all on of Co	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 A TANANTA GI	Guard interval	

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

This submittal(s) (test report) is intended for **FCC ID: 2ASZPKJ200G-A** filing to comply with the FCC Part 15 requirements.

#### 2.5. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

#### 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.	TEST MODE DESCRIPTION				
KA Juliance	The state of the s	Low channel TX	100	100	
2 @	E Andro Golden	Middle channel TX		TE Williams	
3		High channel TX	K Completon	® # Jahon of Golden	
4	拉	Normal operating	Managhation of Globa	10 C	

#### 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)

#### Note:

- 1. 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.

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## 5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

EUT	

## **5.2. EQUIPMENT USED IN EUT SYSTEM**

Item	Equipment	Model No.	ID or Specification	Remark
1 8	Air Purifier	KJ200G-A3A	2ASZPKJ200G-A	EUT

#### **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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## 6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China			
Designation Number	CN1259			
FCC Test Firm Registration Number	975832			
A2LA Cert. No.	5054.02			
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA			

#### **TEST EQUIPMENT OF CONDUCTED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2018	Jun. 11, 2019
LISN	R&S	ESH2-Z5	100086	Aug. 28, 2018	Aug. 27, 2019

## **TEST EQUIPMENT OF RADIATED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2018	Jun. 11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
Power sensor	Aglient	U2021XA	MY54110007	Sep. 20, 2018	Sep. 19, 2019
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 12, 2018	Jun. 11, 2019
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2018	Jun. 11, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019

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#### 7. OUTPUT POWER

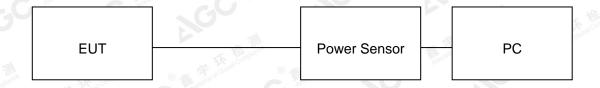
## 7.1. MEASUREMENT PROCEDURE

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	CO	S
TEST MODE	802.11b with data rate 1		life:	The Sometimes

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	12.32	30	Pass
2.437	12.53	30	Pass
2.462	12.26	30	Pass

TEST ITEM	OUTPUT POWER	® Metablional Global	(8) Allestation of C	CO
TEST MODE	802.11g with data rate 6	30 %		· [iii]

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	10.72	30	Pass
2.437	10.35	30	Pass
2.462	11.48	30	Pass

TEST ITEM	OUTPUT POWER	III	玉 <u> </u>
TEST MODE	802.11n 20 with data rate 6.5	Total Complaine	© Filterwind Columb

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	11.43	30	Pass
2.437	10.93	30	Pass
2.462	11.83	30	Pass

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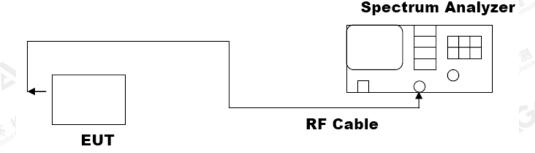
#### 8. 6 DB BANDWIDTH

#### **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) Allestation of Co	(8) Alteration of Glob	C Mestation of
TEST MODE	802.11b with data rate 11	Co >	GO	

	LIMITS AND MEAS	UREMENT RESULT	
Amaliachla Limita		Applicable Limits	
Applicable Limits	Test Dat	ta (MHz)	Criteria
- CC	Low Channel	8.095	PASS
>500KHZ	Middle Channel	8.095	PASS
® Management (8) Management (8)	High Channel	9.037	PASS

TEST ITEM	6DB BANDWIDTH	© Attention of Co	20	CO
TEST MODE	802.11g with data rate 54	G B	:10	

	LIMITS AND MEASU	REMENT RESULT	
	Applicable Limits		
Applicable Limits	Test Data (MHz) Criter		
100	Low Channel	16.33	PASS
>500KHZ	Middle Channel	16.35	PASS
© Mariano de Global Con	High Channel	16.35	PASS

TEST ITEM	6DB BANDWIDTH	® Milestation of Global Co	(S) Attestation of Gusta	300	NO
TEST MODE	802.11n 20 with data	rate 65		:1111	抓

	LIMITS AND MEASU	REMENT RESULT		
Applicable Limite	Applicable Limits			
Applicable Limits	Test Data	a (MHz)	Criteria	
	Low Channel	17.18	PASS	
>500KHZ	Middle Channel	17.19	PASS	
Sopal Counting.	High Channel	17.58	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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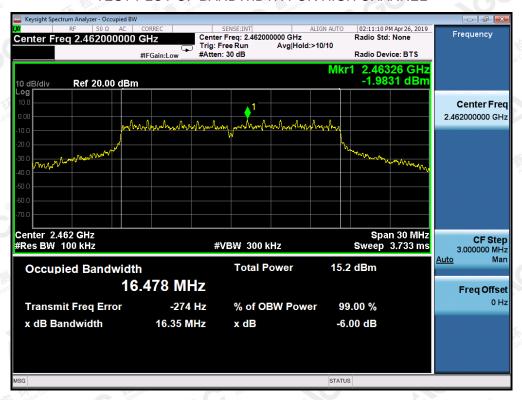
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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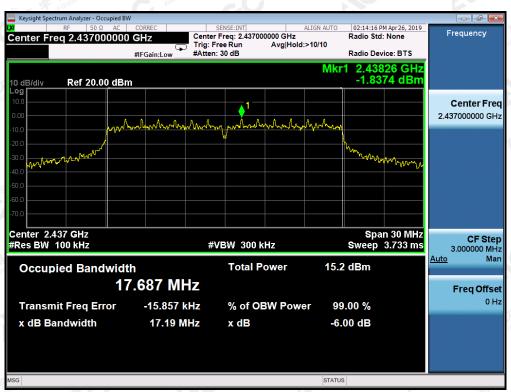
**\GC** s



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



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

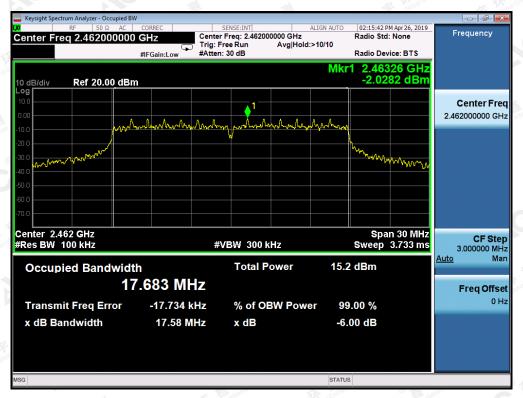


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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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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 USEDJN

The same as described in section 6.

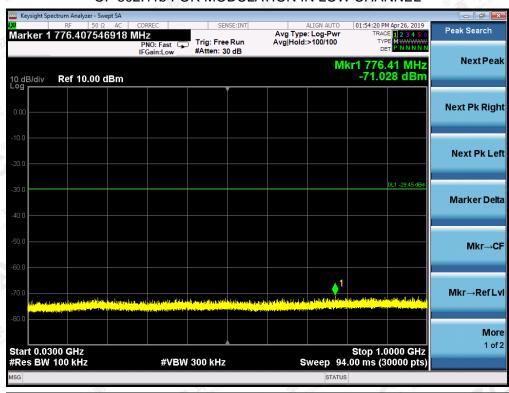
#### 9.4. LIMITS AND MEASUREMENT RESULT

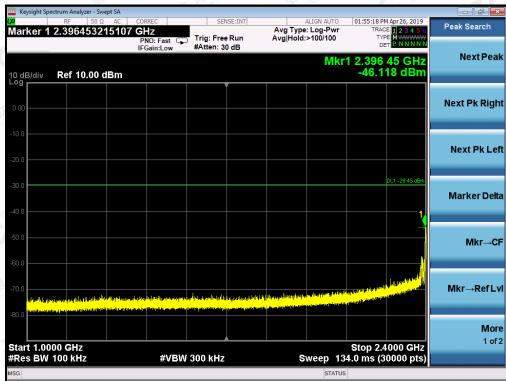
LIMITS AND MEASUREMENT RESULT				
A	Measurement Result			
Applicable Limits	Test Data	Criteria		
In any 100 KHz Bandwidth Outside the	At least -30dBc than the limit	The Company Company		
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS		
intentional radiator is operating, the radio frequency	Channel			
power that is produce by the intentional radiator				
shall be at least 30 dB below that in 100KHz		FK hal Compliand		
bandwidth within the band that contains the highest		® Station of Glov		
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				
comply with the radiated emission limits specified		Manager & San Fond		
in§15.209(a))		3bal Co. Allostano		

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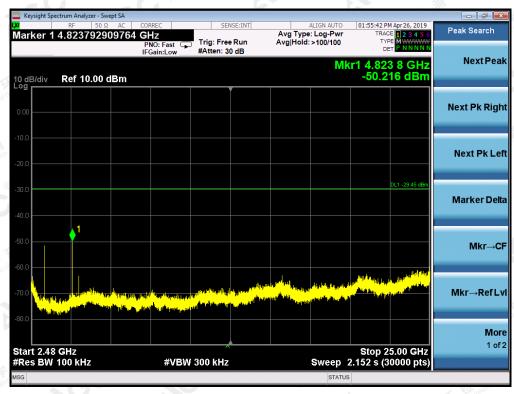
## TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11b FOR MODULATION IN LOW CHANNEL





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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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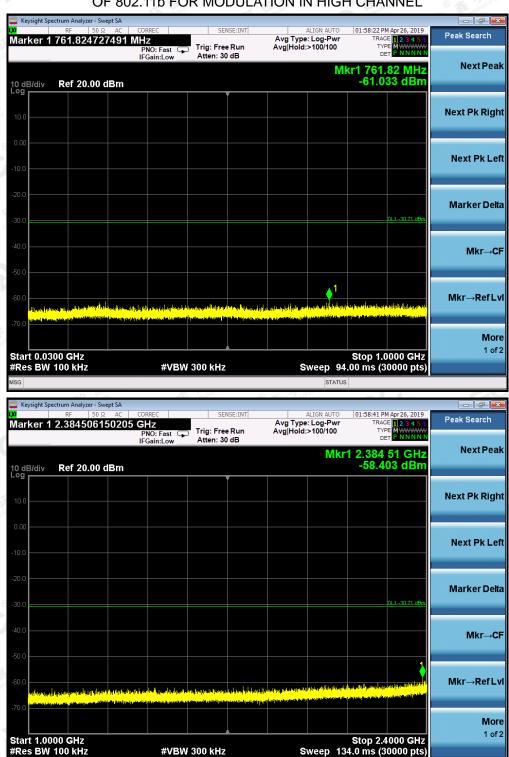




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## TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN HIGH CHANNEL

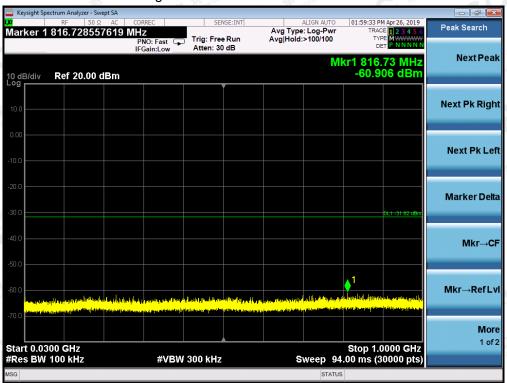


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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL

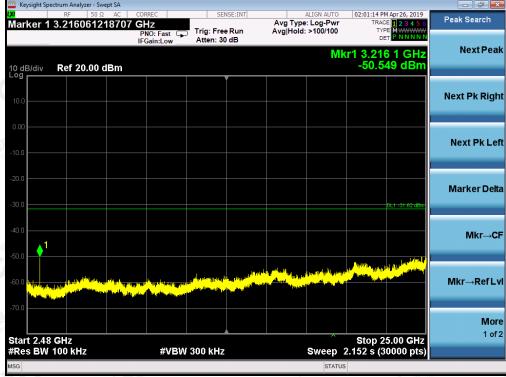


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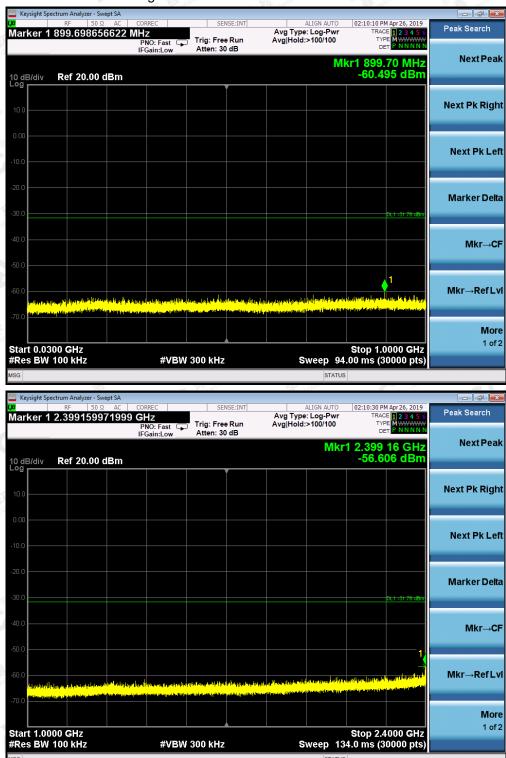




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## TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL



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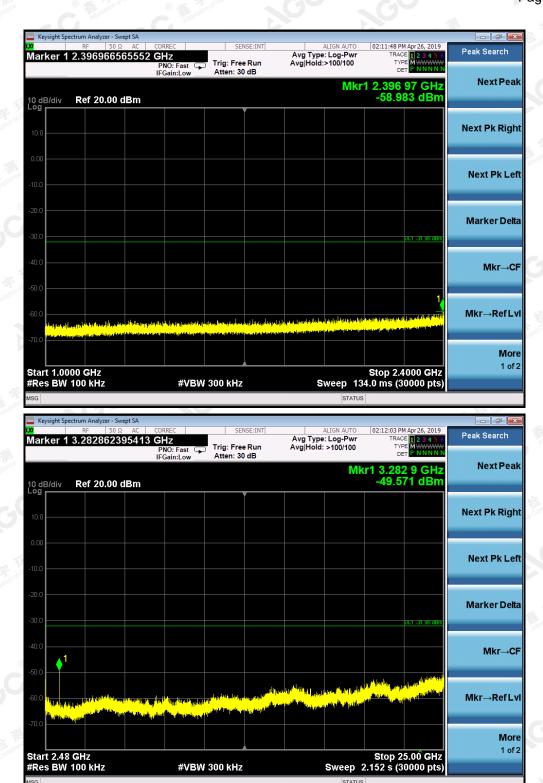
## TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN HIGH CHANNEL



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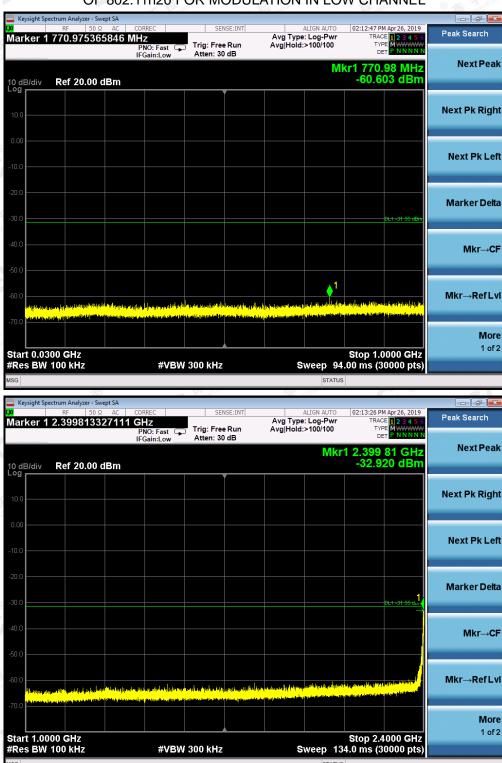




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## TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL



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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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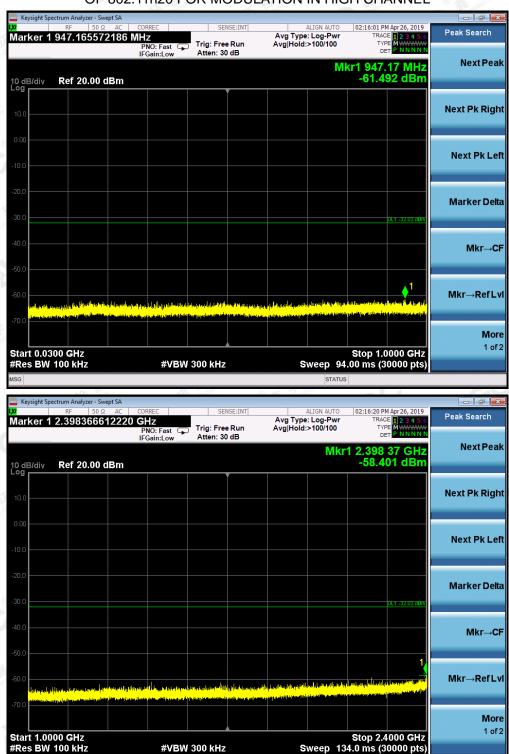




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## TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL

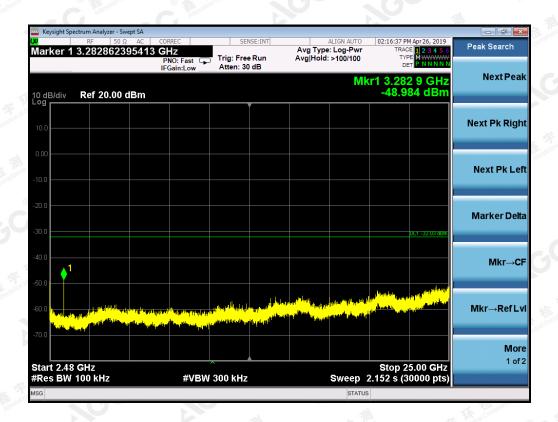


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**#VBW 300 kHz** 

Sweep 134.0 ms (30000 pts)





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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	The Mariane	The templanes (8)
TEST MODE	802.11b with data rate 1	© Martinord out	Minetanous CO

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-5.871	8	Pass
Middle Channel	-6.080	8	Pass
High Channel	-6.118	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY		10000000000000000000000000000000000000
TEST MODE	802.11g with data rate 6	To Tallarce	(a) The state of t

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-7.697	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pass
Middle Channel	-7.806	8 Translation	Pass
High Channel	-8.103	8	Pass

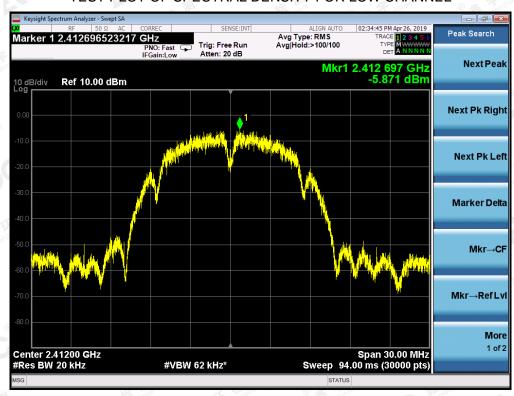
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	TEST ITEM	POWER SPECTRAL DENSITY	® Francisco de Clobar	® Station of Chobal Co.	® Managarion of C
4	TEST MODE	802.11n 20 with data rate 6.5	C	G	

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result	
Low Channel	-7.332	8	Pass	
Middle Channel	-7.652	8	Pass	
High Channel	-8.137	8 # The common state of th	Pass	

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



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#### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



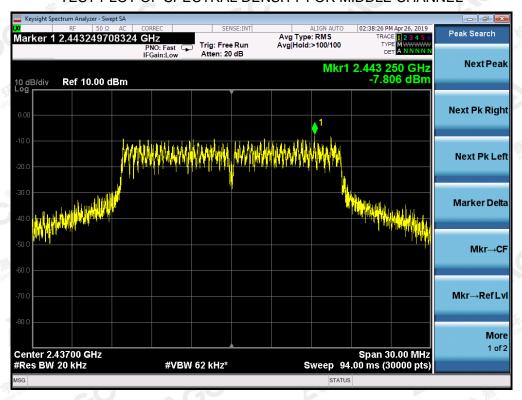
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# 802.11g TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



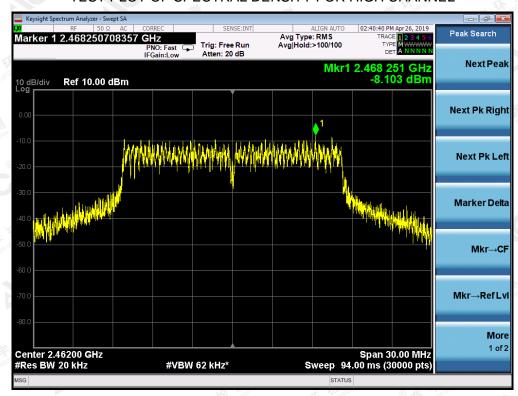
#### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



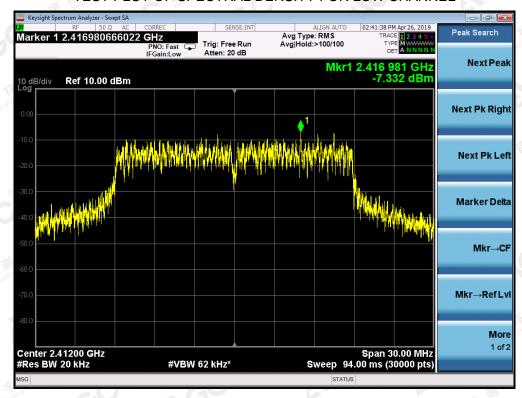
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#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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

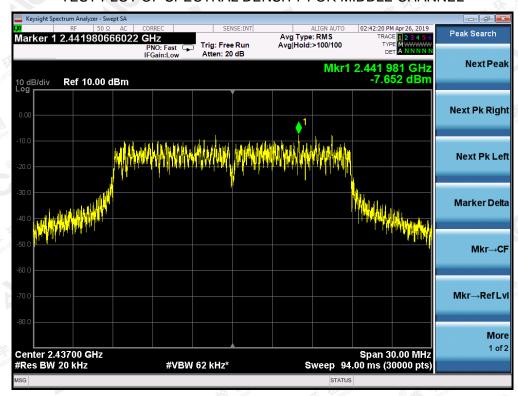


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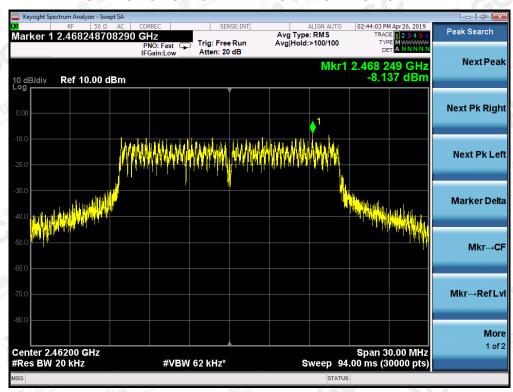
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#### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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#### 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.

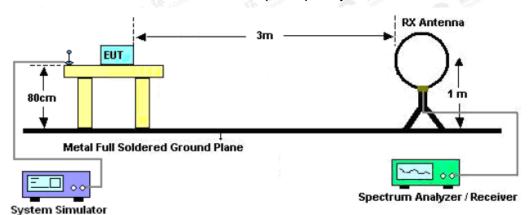
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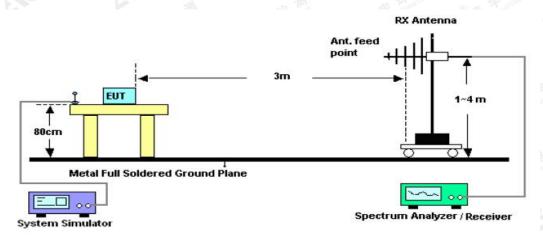


#### 11.2. TEST SETUP

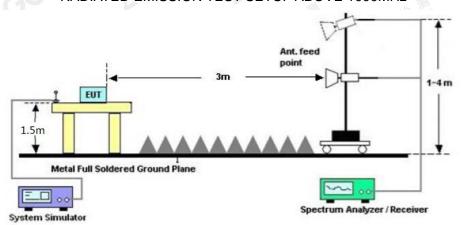
## Radiated Emission Test-Setup Frequency Below 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



## RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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#### 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**

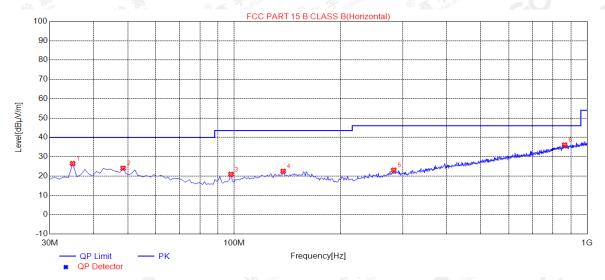
No emission found between lowest internal used/generated frequencies to 30MHz.

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## **RADIATED EMISSION BELOW 1GHZ**

	EUT	Air Purifier	Model Name	KJ200G-A3A	
4	Temperature	25°C	Relative Humidity	55.4%	
noi	Pressure	960hPa	Test Voltage	Normal Voltage	
9	Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal	



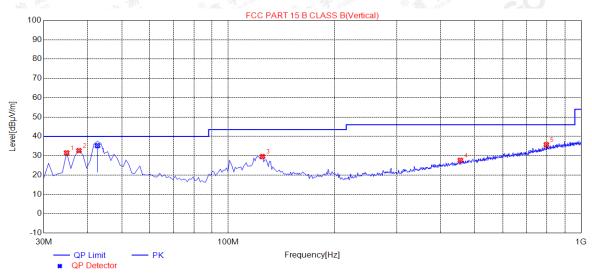
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8500	26.44	13.70	40.00	13.56	150	157	Horizontal
2	48.4300	24.05	14.71	40.00	15.95	150	102	Horizontal
3	97.9000	20.87	11.14	43.50	22.63	200	48	Horizontal
4	137.6700	22.45	14.71	43.50	21.05	150	360	Horizontal
5	283.1700	23.06	16.26	46.00	22.94	100	3	Horizontal
6	863.2300	36.07	29.53	46.00	9.93	100	9	Horizontal

**RESULT: PASS** 

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EUT	Air Purifier	Model Name	KJ200G-A3A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical



(a) 12	NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
	1	34.8500	31.49	13.70	40.00	8.51	200	256	Vertical
	2	37.7600	32.64	14.39	40.00	7.36	100	258	Vertical
	3	42.6100	14.87	35.20	40.00	4.80	100	262	Vertical
	4	125.0600	29.59	13.81	43.50	13.91	100	341	Vertical
	5	454.8600	27.66	21.08	46.00	18.34	200	8	Vertical
	6	797.2700	35.73	28.45	46.00	10.27	150	297	Vertical

#### **RESULT: PASS**

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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## **RADIATED EMISSION ABOVE 1GHZ**

EUT Air Purifier		Model Name	KJ200G-A3A
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
4824.064	44.64	3.72	48.36	74	-25.64	peak	
4824.093	38.19	3.72	41.91	54	-12.09	AVG	
7236.102	42.30	8.15	50.45	74	-23.55	peak	
7236.106	37.05	8.15	45.20	54	-8.80	AVG	
60	20 ·	6				165 mm	
		- all	litte:	- 5	K New Compliant	E Polopal Court	
Remark:		Will allance	The Compliance	® A alion of	310	sstation	

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	Air Purifier	Model Name	KJ200G-A3A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.073	44.67	3.72	48.39	74	-25.61	peak
4824.110	38.21	3.72	41.93	54	-12.07	AVG
7236.071	42.33	8.15	50.48	74	-23.52	peak
7236.055	37.08	8.15	45.23	54	-8.77	AVG
-60					校 测	0 = \$
			litte:	The Compilant	Ellopal Comp	

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Air Purifier	Model Name	KJ200G-A3A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.063	47.19	3.75	50.94	74	-23.06	peak
4874.045	42.17	3.75	45.92	54	-8.08	AVG
7311.096	41.36	8.16	49.52	74	-24.48	peak
7311.109	37.18	8.16	45.34	54	-8.66	AVG
	2.0 °	60			IIII.	杨柳
		litte-	TILL:	· 注	Smpll S	Opal Co.
Remark:		To Thomas of the second	TA Compliano	® Aprilon of C.	Altestation	
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Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	Air Purifier	Model Name	KJ200G-A3A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Valsa Twa
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.062	47.22	3.75	50.97	74	-23.03	peak
4874.022	42.15	3.75	45.90	54	-8.10	AVG
7311.026	41.39	8.16	49.55	74	-24.45	peak
7311.053	37.20	8.16	45.36	54	-8.64	AVG
				- KET Marco	The Compliance	© Antor
		:100	43 FILL	F Global Control	The control Globa	a.C. Alles

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

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EUT	Air Purifier	Model Name	KJ200G-A3A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.063	43.11	3.81	46.92	74	-27.08	peak
4924.040	40.15	3.81	43.96	54	-10.04	AVG
7386.119	41.08	8.19	49.27	74	-24.73	peak
7386.061	36.82	8.19	45.01	54	-8.99	AVG
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			Lig:		Smplan.	Copal Con.
Remark:	.3	The poliance	EK Compliance	® Figure of Gib	Alfestation	- CO
actor = Ante	nna Factor + Cab	le Loss – Pre	-amplifier.	C American	60	

EUT	Air Purifier	Model Name	KJ200G-A3A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.023	43.14	3.81	46.95	74	-27.05	peak
4924.051	40.19	3.81	44.00	54	-10.00	AVG
7386.062	41.12	8.19	49.31	74	-24.69	peak
7386.093	36.86	8.19	45.05	54	-8.95	AVG
				将了""	The Compliance	© Antion of
		:1011		F Global Con.	E Gobal	C Alles

#### Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

## **RESULT: PASS**

**Note:** Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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### 12. BAND EDGE EMISSION

#### 12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

#### 12.2. TEST SET-UP

same as 11.2

#### Note:

- 1. Factor=Antenna Factor + Cable loss Amplifier gain. Field Strength=Factor + Reading level
- 2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.

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