

# Global United Technology Services Co., Ltd.

Report No.: GTS201805000115F01

# FCC Report (WIFI)

**Applicant:** Shenzhen Reo-link Digital Technology Co., Ltd

**Address of Applicant:** B509, University Town Business Park LiShan Road,

NanShan, Shenzhen, Guangdong, China

Manufacturer/Factory: SHENZHEN BAICHUAN SECURITY TECHNOLOGY

CO.,LTD

Address of 5th Floor, Building 7, Tangtou 3rd Industrial Area, Shiyan

Town, Bao'an District, Shenzhen City, China Manufacturer/Factory:

**Equipment Under Test (EUT)** 

**Product Name:** WiFi IP Camera

Model No.: Reolink ARGUS PRO

reolink Trade Mark:

FCC ID: 2AL7VARGUSPRO

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: May 14, 2018

**Date of Test:** May 15-21, 2018

Date of report issued: May 21, 2018

PASS \* Test Result:

Authorized Signature:

Robinson Lo **Laboratory Manager** 

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



# 2 Version

Version No.	Date	Description
00	May 21, 2018	Original

Prepared By:	Joseph Wu	Date:	May 21, 2018	
	Project Engineer	<del>_</del>		
Check By:	Andy wa	Date:	May 21, 2018	
	Reviewer			



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# 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.10:2013.

# **Measurement Uncertainty**

Test Item	Frequency Range	Measurement Uncertainty	Notes	
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)	
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)	
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)	
AC Power Line Conducted Emission 0.15MHz ~ 30MHz ± 3.45dB (1)				
Note (1): The measurement unce	ertainty is for coverage factor of ka	=2 and a level of confidence of 9	95%.	



# **5** General Information

# 5.1 General Description of EUT

Product Name:	WiFi IP Camera
Model No.:	Reolink ARGUS PRO
Serial No.:	001
Test sample(s) ID:	GTS201805000115-1
Sample(s) Status	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11
	802.11n(HT40):7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS)
	802.11g/802.11n(H20)/802.11n(HT40):
	Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Integral Antenna
Antenna gain:	3.0dBi (Declare by Applicant)
Power supply:	Rechargeable battery: DC 9V;
	DC 5V from USB



Operation Frequency each of channel								
Channel Frequency Channel Frequency Channel Frequency Channel Frequency							Frequency	
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz	
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz	
3	2422MHz	6	2437MHz	9	2452MHz			

# Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Took obound	Frequency (MHz)			
Test channel	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)		
Lowest channel	2412MHz	2422MHz		
Middle channel	2437MHz	2437MHz		
Highest channel	2462MHz	2452MHz		



#### 5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

#### 5.3 **Description of Support Units**

None

#### 5.4 **Test Facility**

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

### • FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383, January 08, 2018.

# • Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016.

#### 5.5 **Test Location**

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road,

Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960



# 6 Test Instruments list

Radi	iated Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 03 2015	July 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June 28 2017	June 27 2018
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 28 2017	June 27 2018
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 28 2017	June 27 2018
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2017	June 27 2018
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 28 2017	June 27 2018
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	June 28 2017	June 27 2018
10	Coaxial Cable	GTS	N/A	GTS211	June 28 2017	June 27 2018
11	Coaxial cable	GTS	N/A	GTS210	June 28 2017	June 27 2018
12	Coaxial Cable	GTS	N/A	GTS212	June 28 2017	June 27 2018
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 28 2017	June 27 2018
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 28 2017	June 27 2018
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2017	June 27 2018
16	Band filter	Amindeon	82346	GTS219	June 28 2017	June 27 2018
17	Power Meter	Anritsu	ML2495A	GTS540	June 28 2017	June 27 2018
18	Power Sensor	Anritsu	MA2411B	GTS541	June 28 2017	June 27 2018
19	Loop Antenna	ZHINAN	ZN30900A	GTS534	June 28 2017	June 27 2018

Conduc	Conducted Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019			
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June 28 2017	June 27 2018			
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 28 2017	June 27 2018			
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June 28 2017	June 27 2018			
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A			
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
7	Thermo meter	KTJ	TA328	GTS233	June 28 2017	June 27 2018			

Gen	General used equipment:						
lte m	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Barometer	ChangChun	DYM3	GTS257	June 28 2017	June 27 2018	



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# 7 Test results and Measurement Data

# 7.1 Antenna requirement

**Standard requirement:** FCC Part15 C Section 15.203 /247(c)

### 15.203 requirement:

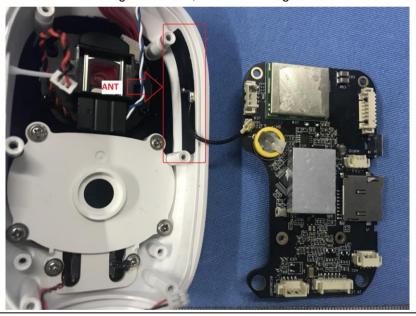
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

# 15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

## **EUT Antenna:**

The antenna is integral antenna, the best case gain of the antenna is 3.0dBi.





# 7.2 Conducted Emissions

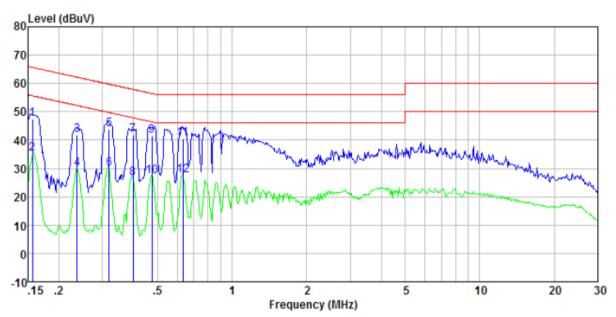
Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	150KHz to 30MHz				
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto				
Limit:	Frequency range (MHz)	Limit (d	BuV)		
	, , ,	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
Test setup:	* Decreases with the logarithm	n of the frequency.			
Tost procedure:	Reference Plane  LISN  40cm  80cm  Filter  AC power  Equipment  Test table/Insulation plane  Remark  E U.T. Equipment Under Test  LISN Line Impedence Stabilization Network  Test table height=0.8m				
Test procedure:					
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				



Measurement data

Line:

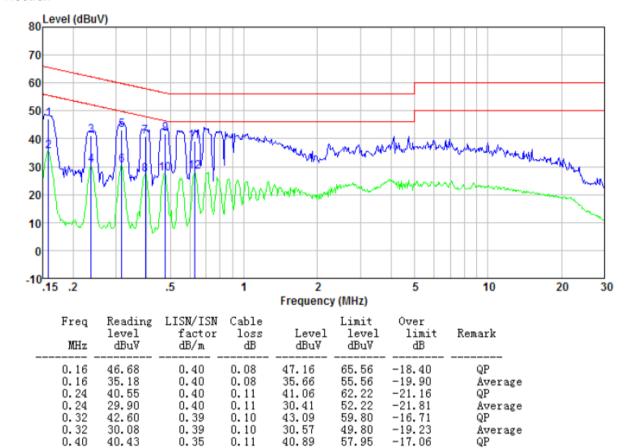
Report No.: GTS201805000115F01



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.16	46.98	0.40	0.08	47.46	65.65	-18.19	QP
0.16	34.63	0.40	0.08	35.11	55.65	-20.54	Average
0.24	41.43	0.40	0.11	41.94	62.22	-20.28	QP
0.24	29.49	0.40	0.11	30.00	52.22	-22.22	Average
0.32	43.33	0.39	0.10	43.82	59.75	-15.93	QP
0.32	29.21	0.39	0.10	29.70	49.75	-20.05	Average
0.40	41.39	0.35	0.11	41.85	57.90	-16.05	QP
0.40	26.08	0.35	0.11	26.54	47.90	-21.36	Average
0.47	40.98	0.32	0.11	41.41	56.45	-15.04	QP
0.47	26.87	0.32	0.11	27.30	46.45	-19.15	Average
0.63	40.12	0.28	0.12	40.52	56.00	-15.48	QP
0.63	27.04	0.28	0.12	27.44	46.00	-18.56	Average



#### Neutral:



### Notes:

0.40

0.48

0.48

0.63

0.63

26.70

41.41

27.12

38.73

27.65

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

0.11

0.11

0.11

0.12

0.12

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

47.95

56.41

46.41

56.00

46.00

-20.79

-14.57

-18.86

-16.87

-17.95

Average

Average

Average

QΡ

QΡ

3. Final Level = Receiver Read level + LISN Factor + Cable Loss

0.35

0.32

0.32

0.28

0.28

4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

27.16

41.84

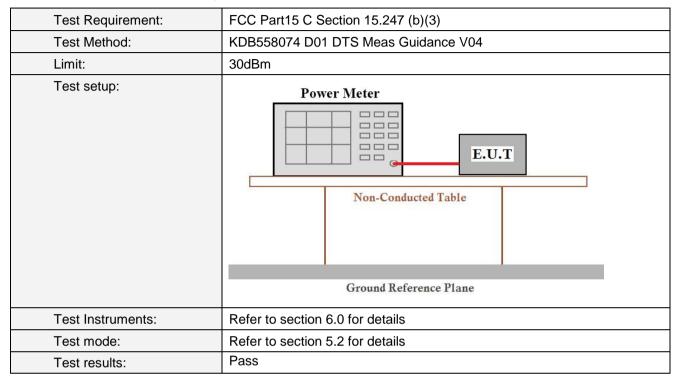
27.55

39.13

28.05



# 7.3 Conducted Peak Output Power

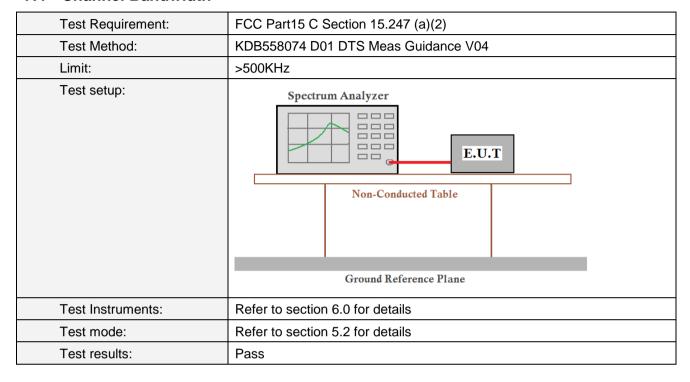


### **Measurement Data**

Test CH		Peak Outp	Limit(dBm)	Result		
1631 011	802.11b		802.11n(HT20)	802.11n(HT40)	Liiiii(abiii)	Nesuit
Lowest	7.22	6.28	5.71	4.00		
Middle	7.32	6.26	5.40	3.82	29.57	Pass
Highest	6.99	6.20	5.68	3.45		



# 7.4 Channel Bandwidth



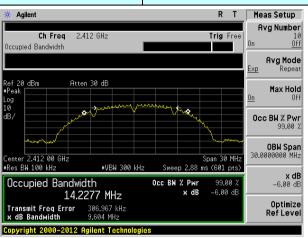
# **Measurement Data**

Test CH	Channel Bandwidth (MHz)  Limit(KHz)				Result	
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littiit(IXI IZ)	Nesuit
Lowest	9.604	15.798	16.400	35.210		
Middle	9.637	16.160	17.281	35.702	>500	Pass
Highest	10.114	15.804	17.278	36.165		

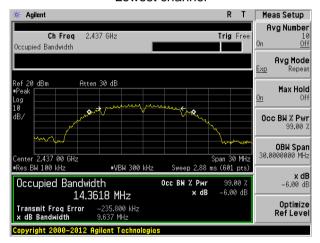


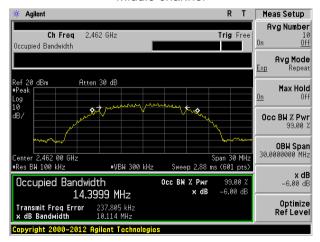
# Test plot as follows:

Test mode: 802.11b



# Lowest channel

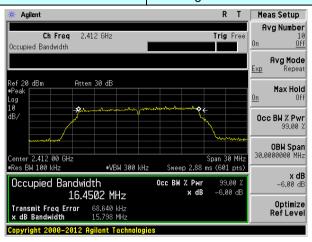




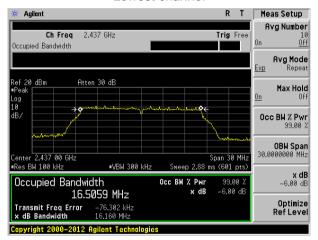
Highest channel

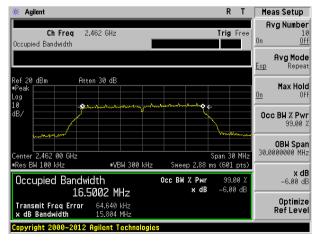


Test mode: 802.11g



### Lowest channel

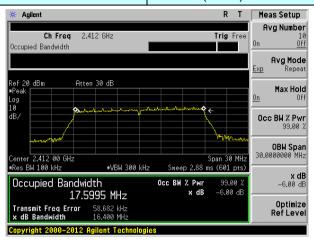




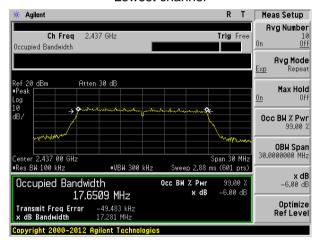
Highest channel

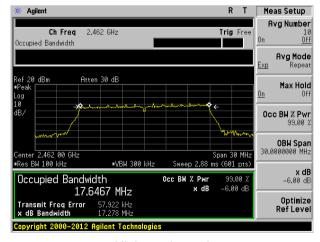


Test mode: 802.11n(HT20)



#### Lowest channel

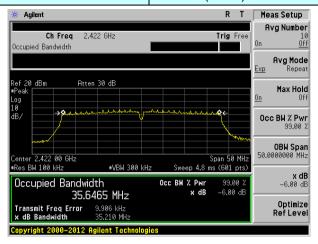




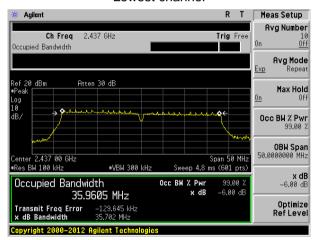
Highest channel

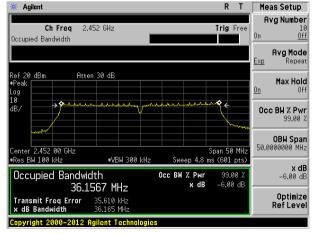


Test mode: 802.11n(HT40)



#### Lowest channel

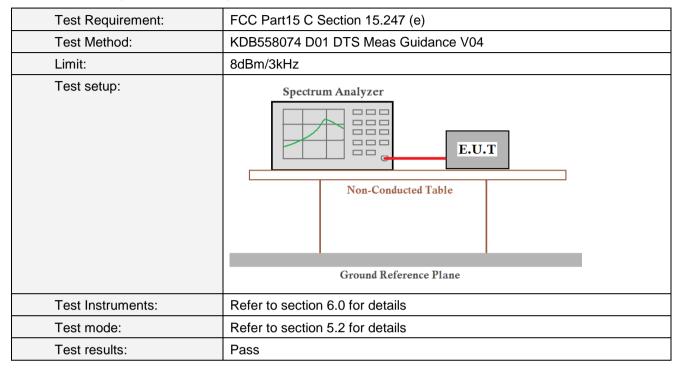




Highest channel



# 7.5 Power Spectral Density



# **Measurement Data**

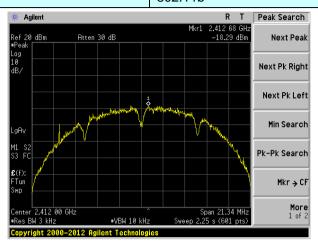
Test CH		Power Spe	ctral Density (dBm)		Limit			
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Nesuit		
Lowest	-18.29	-21.30	-22.88	-25.85				
Middle	-18.61	-20.91	-23.39	-26.82	8.00	Pass		
Highest	-18.46	-21.90	-23.49	-26.58				



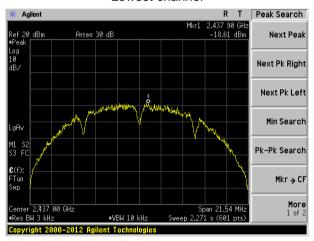
# Test plot as follows:

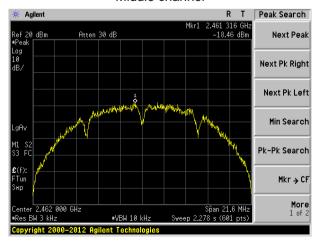
Report No.: GTS201805000115F01

Test mode: 802.11b



#### Lowest channel

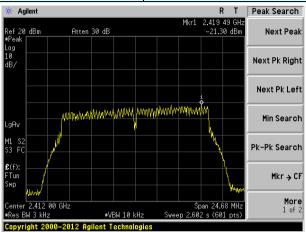




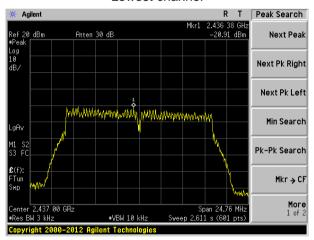
Highest channel

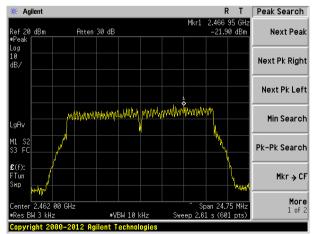


Test mode: 802.11g



### Lowest channel

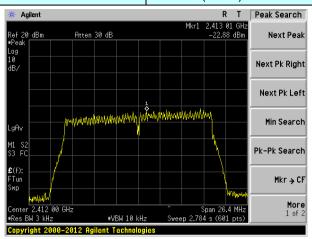




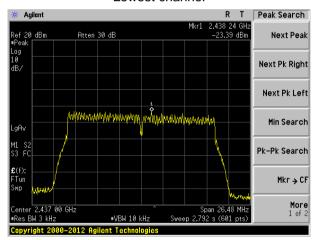
Highest channel

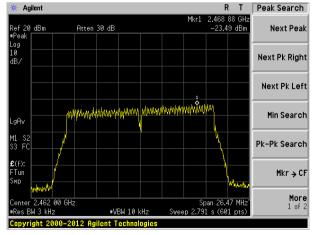


Test mode: 802.11n(HT20)



#### Lowest channel

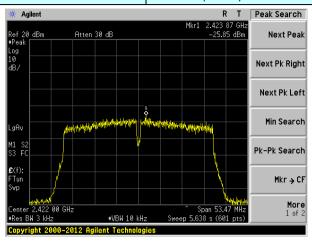




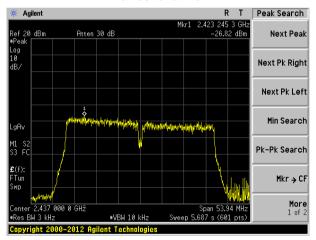
Highest channel

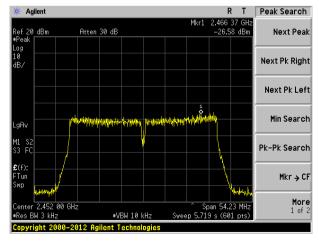


Test mode: 802.11n(HT40)



#### Lowest channel





Highest channel



# 7.6 Band edges

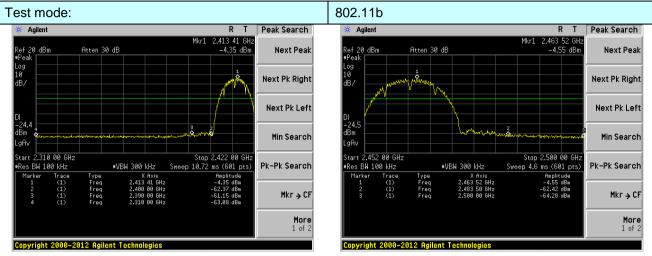
# 7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)			
'				
Test Method:	KDB558074 D01 DTS Meas Guidance V04			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.			
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.2 for details			
Test results:	Pass			



# Test plot as follows:

Report No.: GTS201805000115F01



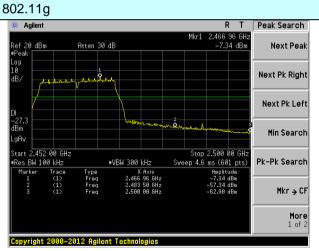
Lowest channel

Highest channel

# 

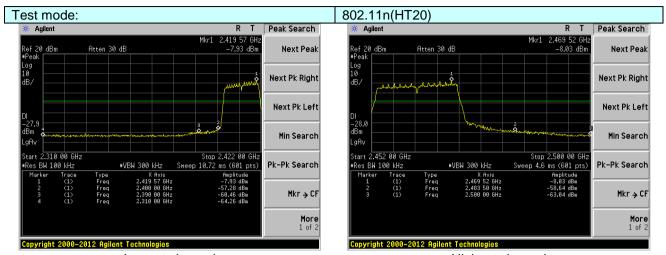
Lowest channel

Copyright 2000-2012 Agilent Technologies

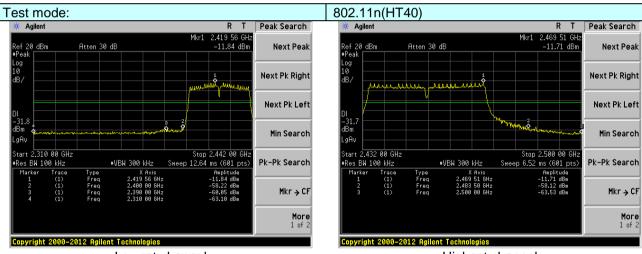


Highest channel





Lowest channel





# 7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	All of the restrict 2500MHz) data		tested, only	the worst ba	nd's (2310MHz to
Test site:	Measurement D				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
•		Peak	1MHz	3MHz	Peak
	Above 1GHz Average 1MHz 3MHz Average				
Limit:	Freque		Limit (dBuV/	m @3m)	Value
	Δηρίζο 1(=Η7			Average	
Test setup:	Above IGHZ 74.00 Peak				
	Test Antenna - < 1m 4m > -				
	the maximum 5. The test-rece Specified Bar 6. If the emission limit specified the EUT wou 10dB margin average meth 7. The radiation	n reading. iver system wandwidth with Man level of the I, then testing Id be reported would be re-tend as specific measuremen	ed from 0 degras set to Pearlaximum Hold EUT in peak could be stop. Otherwise the ested one by ed and then ruts are perform	k Detect Fund Mode. mode was 10 pped and the ne emissions one using peeported in a coned in X, Y, Z	degrees to find ction and odB lower than the peak values of that did not have ak, quasi-peak or data sheet.
	the maximum 5. The test-rece Specified Bar 6. If the emission limit specified the EUT wou 10dB margin average meth 7. The radiation And found the	n reading. iver system with Modwidth with Modern testing It then testing It be reported would be re-tended as specific measurements Y axis position.	ed from 0 degras set to Pearlaximum Hold EUT in peak could be stop of the could be stop of the could be stop one by ed and then roots are perforroning which it	k Detect Fund Mode. mode was 10 pped and the ne emissions one using peeported in a coned in X, Y, Z is worse case	degrees to find ction and odB lower than the peak values of that did not have ak, quasi-peak or data sheet.
Test Instruments:	the maximum 5. The test-rece Specified Bar 6. If the emission limit specified the EUT wou 10dB margin average meth 7. The radiation And found the worst case meth	n reading. iver system wandwidth with Man level of the I, then testing Id be reported would be re-tended as specific measurements Y axis positioned is recorded.	ras set to Pea Maximum Hold EUT in peak could be stop . Otherwise the ested one by ed and then routs are perforr oning which it	k Detect Fund Mode. mode was 10 pped and the ne emissions one using peeported in a coned in X, Y, Z is worse case	degrees to find ction and odB lower than the peak values of that did not have ak, quasi-peak or data sheet.
Test Instruments: Test mode:	the maximum 5. The test-rece Specified Bar 6. If the emission limit specified the EUT wou 10dB margin average meth 7. The radiation And found the	n reading. iver system wandwidth with Mann level of the left, then testing do be reported would be re-toned as specific measurements Y axis positiode is recorde 6.0 for details	ras set to Pea Maximum Hold EUT in peak could be stop could be stop do therwise the ested one by ed and then routs are perform oning which it ed in the repo	k Detect Fund Mode. mode was 10 pped and the ne emissions one using peeported in a coned in X, Y, Z is worse case	degrees to find ction and odB lower than the peak values of that did not have ak, quasi-peak or data sheet.



### Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

Test mode:		802.1	1b		Tes	t channel:		Lowest	
Peak value:		,							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	50.87	27.59	5.38	34.01	1	49.83	74.00	-24.17	Horizontal
2400.00	59.62	27.58	5.39	34.01	1	58.58	74.00	-15.42	Horizontal
2390.00	52.49	27.59	5.38	34.01	1	51.45	74.00	-22.55	Vertical
2400.00	61.20	27.58	5.39	34.01	1	60.16	74.00	-13.84	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	37.85	27.59	5.38	34.01	1	36.81	54.00	-17.19	Horizontal
2400.00	46.06	27.58	5.39	34.01	1	45.02	54.00	-8.98	Horizontal
2390.00	39.61	27.59	5.38	34.01	1	38.57	54.00	-15.43	Vertical
2400.00	47.13	27.58	5.39	34.01	1	46.09	54.00	-7.91	Vertical
2400.00	47.13	27.50	5.5	34.0	ı	40.03	5	-7.31	vertical
Test mode:	47.13	802.1		1		t channel:		Highest	vertical
				1				<u> </u>	vertical
Test mode:				1	Tes			Highest	Polarization
Test mode: Peak value: Frequency	: Read Level	802.1 Antenna Factor	1b Cable Loss	Pream Facto	Tes	t channel:	Limit Line	Highest Over Limit	
Test mode: Peak value: Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	Tes	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
Test mode: Peak value: Frequency (MHz) 2483.50	Read Level (dBuV) 51.19	Antenna Factor (dB/m) 27.53	Cable Loss (dB) 5.47	Pream Facto (dB)	Tes	Level (dBuV/m) 50.27	Limit Line (dBuV/m) 74.00	Over Limit (dB) -23.73	Polarization Horizontal
Test mode: Peak value: Frequency (MHz) 2483.50 2500.00	Read Level (dBuV) 51.19	802.1 Antenna Factor (dB/m) 27.53 27.55	Cable Loss (dB) 5.47 5.49	Pream Facto (dB) 33.92	Tes	Level (dBuV/m) 50.27 50.38	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -23.73 -23.62	Polarization Horizontal Horizontal
Test mode: Peak value: Frequency (MHz) 2483.50 2500.00 2483.50	Read Level (dBuV) 51.19 47.27 53.29 49.63	802.1 Antenna Factor (dB/m) 27.53 27.55 27.55	Cable Loss (dB) 5.47 5.49 5.47	Pream Facto (dB) 33.92 29.93	Tes	Level (dBuV/m) 50.27 50.38 52.37	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -23.73 -23.62 -21.63	Polarization Horizontal Horizontal Vertical
Test mode: Peak value: Frequency (MHz) 2483.50 2500.00 2483.50 2500.00	Read Level (dBuV) 51.19 47.27 53.29 49.63	802.1 Antenna Factor (dB/m) 27.53 27.55 27.55	Cable Loss (dB) 5.47 5.49 5.47	Pream Facto (dB) 33.92 29.93	Tes	Level (dBuV/m) 50.27 50.38 52.37	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -23.73 -23.62 -21.63 -21.26  Over Limit	Polarization Horizontal Horizontal Vertical
Test mode: Peak value: Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency	Read Level (dBuV) 51.19 47.27 53.29 49.63 Iue:	802.1  Antenna Factor (dB/m) 27.53 27.55 27.55 Antenna Factor	Cable Loss (dB) 5.47 5.49 5.49 Cable Loss	Pream Facto (dB) 33.92 29.93 29.93 Pream Facto	Tess  Tess	Level (dBuV/m) 50.27 50.38 52.37 52.74	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line	Over Limit (dB) -23.73 -23.62 -21.63 -21.26  Over Limit	Polarization  Horizontal  Horizontal  Vertical  Vertical
Test mode: Peak value: Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz)	Read Level (dBuV) 51.19 47.27 53.29 49.63 Iue: Read Level (dBuV)	Antenna Factor (dB/m) 27.53 27.55 27.55 Antenna Factor (dB/m)	Cable Loss (dB) 5.47 5.49 5.47 Cable Loss (dB)	Pream Facto (dB) 33.92 29.93 33.92 29.93 Pream Facto (dB)	Tes	Level (dBuV/m) 50.27 50.38 52.37 52.74 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Over Limit (dB) -23.73 -23.62 -21.63 -21.26  Over Limit (dB)	Polarization Horizontal Horizontal Vertical Vertical Polarization
Test mode: Peak value: Frequency (MHz)  2483.50  2500.00  2483.50  2500.00  Average value:	Read Level (dBuV) 51.19 47.27 53.29 49.63 Iue: Read Level (dBuV) 38.10	Antenna Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53	Cable Loss (dB) 5.47 5.49 Cable Loss (dB) 5.47	Pream Facto (dB) 33.92 29.93 Pream Facto (dB) 33.92	Tes	Level (dBuV/m) 50.27 50.38 52.37 52.74  Level (dBuV/m) 37.18	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Over Limit (dB) -23.73 -23.62 -21.63 -21.26  Over Limit (dB) -16.82	Polarization Horizontal Horizontal Vertical Vertical Polarization Horizontal

# Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test mode:		802.1	1g	Tes	st channel:	L	owest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.29	27.59	5.38	34.01	49.25	74.00	-24.75	Horizontal
2400.00	58.85	27.58	5.39	34.01	57.81	74.00	-16.19	Horizontal
2390.00	51.88	27.59	5.38	34.01	50.84	74.00	-23.16	Vertical
2400.00	60.28	27.58	5.39	34.01	59.24	74.00	-14.76	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.44	27.59	5.38	34.01	36.40	54.00	-17.60	Horizontal
2400.00	45.59	27.58	5.39	34.01	44.55	54.00	-9.45	Horizontal
2390.00	39.16	27.59	5.38	34.01	38.12	54.00	-15.88	Vertical
2400.00	46.61	27.58	5.39	34.01	45.57	54.00	-8.43	Vertical
Test mode:		802.1	1g	Tes	st channel:	H	Highest	
Test mode: Peak value:		802.1	1g	Tes	st channel:	ŀ	Highest	
	Read Level (dBuV)	Antenna Factor (dB/m)	1g  Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
Peak value:	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Polarization  Horizontal
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	
Frequency (MHz) 2483.50	Read Level (dBuV) 50.37	Antenna Factor (dB/m) 27.53	Cable Loss (dB) 5.47	Preamp Factor (dB) 33.92	Level (dBuV/m) 49.45	Limit Line (dBuV/m) 74.00	Over Limit (dB) -24.55	Horizontal
Frequency (MHz) 2483.50 2500.00	Read Level (dBuV) 50.37 46.63	Antenna Factor (dB/m) 27.53 27.55	Cable Loss (dB) 5.47 5.49	Preamp Factor (dB) 33.92 29.93	Level (dBuV/m) 49.45 49.74	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -24.55	Horizontal Horizontal
Frequency (MHz)  2483.50  2500.00  2483.50	Read Level (dBuV) 50.37 46.63 52.35 48.88	Antenna Factor (dB/m) 27.53 27.55 27.53	Cable Loss (dB) 5.47 5.49	Preamp Factor (dB) 33.92 29.93 33.92	Level (dBuV/m) 49.45 49.74 51.43	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -24.55 -24.26 -22.57	Horizontal Horizontal Vertical
Frequency (MHz)  2483.50  2500.00  2483.50  2500.00	Read Level (dBuV) 50.37 46.63 52.35 48.88	Antenna Factor (dB/m) 27.53 27.55 27.53	Cable Loss (dB) 5.47 5.49	Preamp Factor (dB) 33.92 29.93 33.92	Level (dBuV/m) 49.45 49.74 51.43	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -24.55 -24.26 -22.57	Horizontal Horizontal Vertical
Frequency (MHz)  2483.50  2500.00  2483.50  2500.00  Average value:	Read Level (dBuV) 50.37 46.63 52.35 48.88 Jue:	Antenna Factor (dB/m) 27.53 27.55 27.53 27.55	Cable Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss	Preamp Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor	Level (dBuV/m) 49.45 49.74 51.43 51.99	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Contract the contract of the contr	Over Limit (dB) -24.55 -24.26 -22.57 -22.01 Over Limit	Horizontal Horizontal Vertical Vertical
Frequency (MHz)  2483.50  2500.00  2483.50  2500.00  Average value:	Read Level (dBuV) 50.37 46.63 52.35 48.88 Jue: Read Level (dBuV)	Antenna Factor (dB/m) 27.53 27.55 27.55 Antenna Factor (dB/m)	Cable Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss (dB)	Preamp Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB)	Level (dBuV/m) 49.45 49.74 51.43 51.99 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Over Limit (dB) -24.55 -24.26 -22.57 -22.01 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
Frequency (MHz)  2483.50  2500.00  2483.50  2500.00  Average va  Frequency (MHz)  2483.50	Read Level (dBuV) 50.37 46.63 52.35 48.88 Iue: Read Level (dBuV) 37.60	Antenna Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53	Cable Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47	Preamp Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92	Level (dBuV/m) 49.45 49.74 51.43 51.99 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00  Limit Line (dBuV/m)  54.00	Over Limit (dB) -24.55 -24.26 -22.57 -22.01 Over Limit (dB) -17.32	Horizontal Horizontal Vertical Vertical Polarization Horizontal

# Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test mode:		802.1	1n(HT20)	Tes	st channel:	L	_owest	
Peak value:			,					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.13	27.59	5.38	34.01	49.09	74.00	-24.91	Horizontal
2400.00	58.63	27.58	5.39	34.01	57.59	74.00	-16.41	Horizontal
2390.00	51.70	27.59	5.38	34.01	50.66	74.00	-23.34	Vertical
2400.00	60.02	27.58	5.39	34.01	58.98	74.00	-15.02	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.33	27.59	5.38	34.01	36.29	54.00	-17.71	Horizontal
2400.00	45.46	27.58	5.39	34.01	44.42	54.00	-9.58	Horizontal
2390.00	39.03	27.59	5.38	34.01	37.99	54.00	-16.01	Vertical
2400.00	46.46	27.58	5.39	34.01	45.42	54.00	-8.58	Vertical
Test mode:		802.1	1n(HT20)	Tes	st channel:		Highest	
Peak value:		T			1		1 _	1
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.13	27.53	5.47	33.92	49.21	74.00	-24.79	Horizontal
2500.00	46.45	27.55	5.49	29.93	49.56	74.00	-24.44	Horizontal
2483.50	52.08	27.53	5.47	33.92	51.16	74.00	-22.84	Vertical
2500.00	48.67	27.55	5.49	29.93	51.78	74.00	-22.22	Vertical
A.,	_							
Average va	lue:	_					_	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
Frequency	Read Level	Factor	Loss	Factor			Limit	Polarization  Horizontal
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	Limit (dB)	
Frequency (MHz) 2483.50	Read Level (dBuV) 37.46	Factor (dB/m) 27.53	Loss (dB) 5.47	Factor (dB) 33.92	(dBuV/m) 36.54	(dBuV/m) 54.00	Limit (dB) -17.46	Horizontal

# Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test mode:		802.1	1n(HT40)	Tes	st channel:	L	owest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.58	27.59	5.38	34.01	48.54	74.00	-25.46	Horizontal
2400.00	57.90	27.58	5.39	34.01	56.86	74.00	-17.14	Horizontal
2390.00	51.12	27.59	5.38	34.01	50.08	74.00	-23.92	Vertical
2400.00	59.14	27.58	5.39	34.01	58.10	74.00	-15.90	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.94	27.59	5.38	34.01	35.90	54.00	-18.10	Horizontal
2400.00	45.01	27.58	5.39	34.01	43.97	54.00	-10.03	Horizontal
2390.00	38.59	27.59	5.38	34.01	37.55	54.00	-16.45	Vertical
2400.00	45.98	27.58	5.39	34.01	44.94	54.00	-9.06	Vertical
Test mode:		802.1	1n(HT40)	Tes	st channel:	F	Highest	
D 1 .								
Peak value:		_						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
Frequency	Read Level	Factor	Loss	Factor			Limit	Polarization  Horizontal
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	Limit (dB)	
Frequency (MHz) 2483.50	Read Level (dBuV) 49.35	Factor (dB/m) 27.53	Loss (dB) 5.47	Factor (dB) 33.92	(dBuV/m) 48.43	(dBuV/m) 74.00	Limit (dB) -25.57	Horizontal
Frequency (MHz) 2483.50 2500.00	Read Level (dBuV) 49.35 45.84	Factor (dB/m) 27.53 27.55	Loss (dB) 5.47 5.49	Factor (dB) 33.92 29.93	(dBuV/m) 48.43 48.95	74.00 74.00	Limit (dB) -25.57 -25.05	Horizontal Horizontal
Frequency (MHz) 2483.50 2500.00 2483.50	Read Level (dBuV) 49.35 45.84 51.19 47.96	Factor (dB/m) 27.53 27.55 27.53	Loss (dB) 5.47 5.49 5.47	Factor (dB) 33.92 29.93 33.92	(dBuV/m) 48.43 48.95 50.27	74.00 74.00 74.00	Limit (dB) -25.57 -25.05 -23.73	Horizontal Horizontal Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00	Read Level (dBuV) 49.35 45.84 51.19 47.96	Factor (dB/m) 27.53 27.55 27.53	Loss (dB) 5.47 5.49 5.47	Factor (dB) 33.92 29.93 33.92	(dBuV/m) 48.43 48.95 50.27	74.00 74.00 74.00	Limit (dB) -25.57 -25.05 -23.73	Horizontal Horizontal Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 <b>Average va</b> Frequency	Read Level (dBuV) 49.35 45.84 51.19 47.96 Iue:	Factor (dB/m) 27.53 27.55 27.53 27.55 Antenna Factor	Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor	(dBuV/m) 48.43 48.95 50.27 51.07	74.00 74.00 74.00 74.00 74.00	Limit (dB) -25.57 -25.05 -23.73 -22.93  Over Limit	Horizontal Horizontal Vertical Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 <b>Average va</b> Frequency (MHz)	Read Level (dBuV) 49.35 45.84 51.19 47.96 Iue: Read Level (dBuV)	Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m)	Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss (dB)	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB)	(dBuV/m) 48.43 48.95 50.27 51.07 Level (dBuV/m)	74.00 74.00 74.00 74.00 Tumit Line (dBuV/m)	Limit (dB) -25.57 -25.05 -23.73 -22.93  Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
Frequency (MHz)  2483.50  2500.00  2483.50  2500.00  Average va  Frequency (MHz)  2483.50	Read Level (dBuV) 49.35 45.84 51.19 47.96 Iue: Read Level (dBuV) 36.99	Factor (dB/m) 27.53 27.55 27.55 27.55  Antenna Factor (dB/m) 27.53	Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92	(dBuV/m) 48.43 48.95 50.27 51.07  Level (dBuV/m) 36.07	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	Limit (dB) -25.57 -25.05 -23.73 -22.93  Over Limit (dB) -17.93	Horizontal Horizontal Vertical Vertical Polarization Horizontal

# Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



# 7.7 Spurious Emission

# 7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)			
Test Method:	KDB558074 D01 DTS Meas Guidance V04			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.			
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.2 for details			
Test results:	Pass			

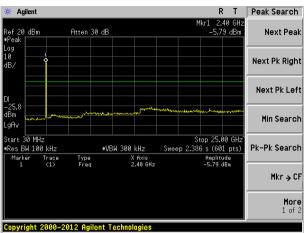


# Test plot as follows:

Report No.: GTS201805000115F01

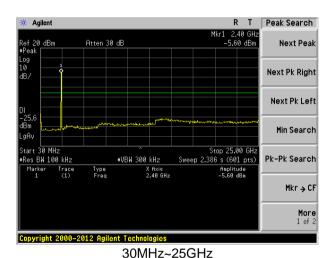
Test mode: 802.11b

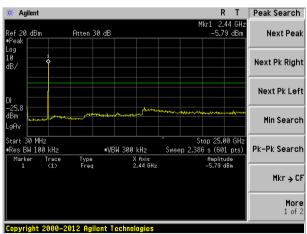
Lowest channel



30MHz~25GHz

Middle channel



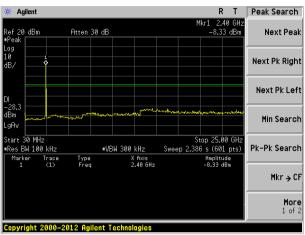


30MHz~25GHz



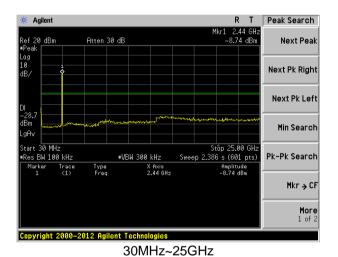
Test mode: 802.11g

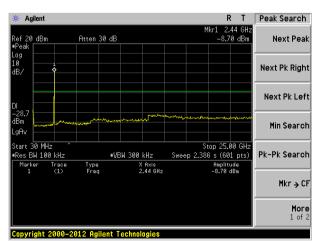
Lowest channel



30MHz~25GHz

Middle channel



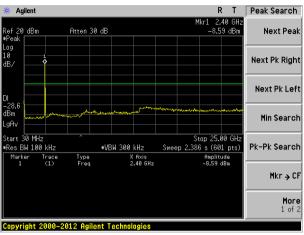


30MHz~25GHz



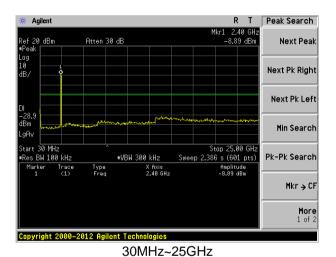
Test mode: 802.11n(HT20)

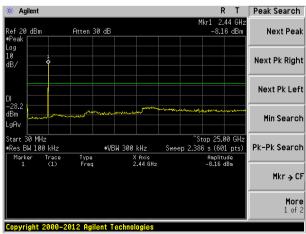
Lowest channel



30MHz~25GHz

Middle channel



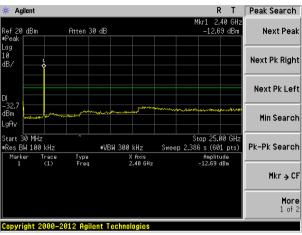


30MHz~25GHz



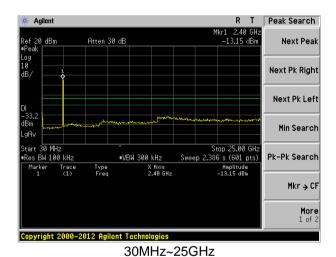
Test mode: 802.11n(HT40)

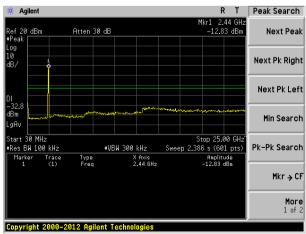
Lowest channel



30MHz~25GHz

Middle channel





30MHz~25GHz

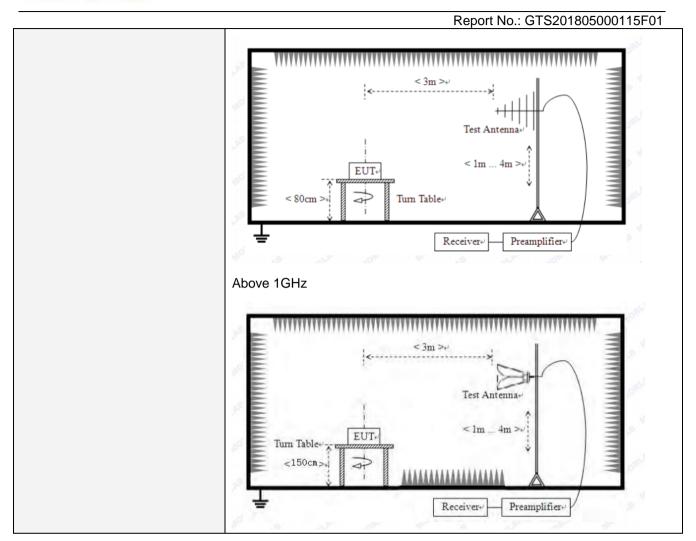


# 7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209									
Test Method:	ANSI C63.10:2013									
Test Frequency Range:	9kHz to 25GHz									
Test site:	Measurement Distar	nce: 3	3m							
Receiver setup:	Frequency Detector RBW VBW Value									
	9KHz-150KHz	Qı	uasi-peak	200	Hz	600Hz	Quasi-peak			
	150KHz-30MHz	Qı	uasi-peak	9KF	Ηz	30KHz	Quasi-peak			
	30MHz-1GHz	Qı	uasi-peak	100k	Ήz	300KH	z Quasi-peak			
	Above 1GHz		Peak	1MF	Ηz	3MHz	Peak			
	Above IGHZ		Peak	1MF	Ηz	10Hz	Average			
Limit:	Frequency Limit (uV/m) Value Measurement Distance									
	0.009MHz-0.490MHz 2400/F(KHz) QP 300m									
	0.490MHz-1.705M	lHz	24000/F(	KHz)	QP		300m			
	1.705MHz-30MH	lz	30		QP		30m			
	30MHz-88MHz		100			QP				
	88MHz-216MHz	<u>z</u>	150			QP				
	216MHz-960MH	Z	200		QP		3m			
	960MHz-1GHz		500		QP		OIII			
	Above 1GHz		500		Av	erage				
	7.5500		5000		F	Peak				
Test setup:	Below 30MHz  Turntable  FUT  0.8 m  Coaxial Cable  Test Receiver									
	Below 1GHz									

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960







Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

#### Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

#### Measurement data:

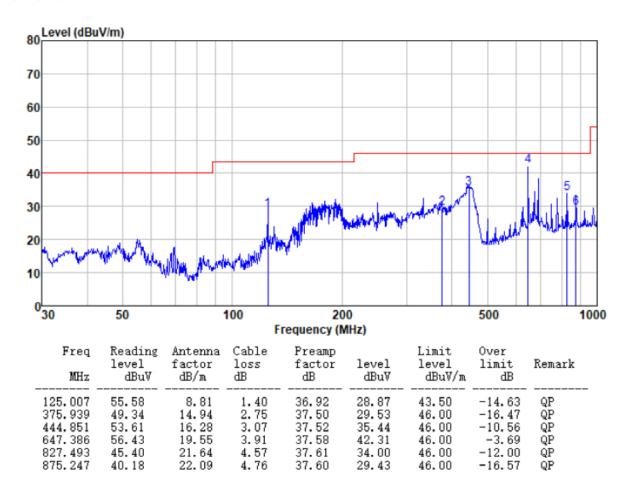
#### ■ 9kHz~30MHz

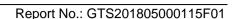
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



# ■ Below 1GHz

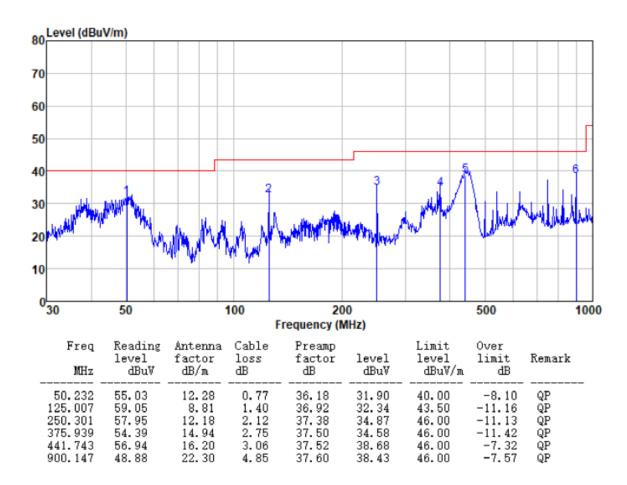
#### Horizontal:







#### Vertical:





#### ■ Above 1GHz

Test mode:		802.11b		Test	channel:	Lowest			
Peak value:		T	T	Ī	T		ı		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4824.00	40.36	31.79	8.62	32.10	48.67	74.00	-25.33	Vertical	
7236.00	34.26	36.19	11.68	31.97	50.16	74.00	-23.84	Vertical	
9648.00	32.74	38.07	14.16	31.56	53.41	74.00	-20.59	Vertical	
12060.00	*					74.00		Vertical	
14472.00	*					74.00		Vertical	
16884.00	*					74.00		Vertical	
4824.00	39.02	31.79	8.62	32.10	47.33	74.00	-26.67	Horizontal	
7236.00	34.00	36.19	11.68	31.97	49.90	74.00	-24.10	Horizontal	
9648.00	32.32	38.07	14.16	31.56	52.99	74.00	-21.01	Horizontal	
12060.00	*					74.00		Horizontal	
14472.00	*					74.00		Horizontal	
16884.00	*					74.00		Horizontal	
Average val								T	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4824.00	29.43	31.79	8.62	32.10	37.74	54.00	-16.26	Vertical	
7236.00	23.12	36.19	11.68	31.97	39.02	54.00	-14.98	Vertical	
9648.00	23.09	38.07	14.16	31.56	43.76	54.00	-10.24	Vertical	
12060.00	*					54.00		Vertical	
14472.00	*					54.00		Vertical	
16884.00	*					54.00		Vertical	
4824.00	28.55	31.79	8.62	32.10	36.86	54.00	-17.14	Horizontal	
7236.00	22.58	36.19	11.68	31.97	38.48	54.00	-15.52	Horizontal	
9648.00	22.07	38.07	14.16	31.56	42.74	54.00	-11.26	Horizontal	
12060.00	*					54.00		Horizontal	
14472.00	*					54.00		Horizontal	
16884.00	*					54.00		Horizontal	

#### Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.40	31.85	8.66	32.12	47.79	74.00	-26.21	Vertical
7311.00	34.32	36.37	11.71	31.91	50.49	74.00	-23.51	Vertical
9748.00	33.76	38.27	14.25	31.56	54.72	74.00	-19.28	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.87	31.85	8.66	32.12	48.26	74.00	-25.74	Horizontal
7311.00	32.96	36.37	11.71	31.91	49.13	74.00	-24.87	Horizontal
9748.00	33.64	38.27	14.25	31.56	54.60	74.00	-19.40	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.25	31.85	8.66	32.12	38.64	54.00	-15.36	Vertical
7311.00	22.64	36.37	11.71	31.91	38.81	54.00	-15.19	Vertical
9748.00	23.01	38.27	14.25	31.56	43.97	54.00	-10.03	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.98	31.85	8.66	32.12	38.37	54.00	-15.63	Horizontal
7311.00	22.05	36.37	11.71	31.91	38.22	54.00	-15.78	Horizontal
9748.00	23.36	38.27	14.25	31.56	44.32	54.00	-9.68	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

# Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot; $\star$ ", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b			Test channel:			Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	ctor	Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4924.00	44.97	31.90	8.70	32.	15	53.42	74.00		-20.58	Vertical
7386.00	35.02	36.49	11.76	31.	83	51.44	74.	00	-22.56	Vertical
9848.00	37.07	38.62	14.31	31.	77	58.23	74.	00	-15.77	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	44.26	31.90	8.70	32.	15	52.71	74.	00	-21.29	Horizontal
7386.00	33.92	36.49	11.76	31.	83	50.34	74.	00	-23.66	Horizontal
9848.00	33.24	38.62	14.31	31.	77	54.40	74.	00	-19.60	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal
Average val	ue:			•						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	ctor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	35.88	31.90	8.70	32.	15	44.33	54.	00	-9.67	Vertical
7386.00	24.94	36.49	11.76	31.	83	41.36	54.	00	-12.64	Vertical
9848.00	25.57	38.62	14.31	31.	77	46.73	54.	00	-7.27	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	34.62	31.90	8.70	32.	15	43.07	54.	00	-10.93	Horizontal
7386.00	23.30	36.49	11.76	31.	83	39.72	54.	00	-14.28	Horizontal
9848.00	22.49	38.62	14.31	31.	77	43.65	54.	00	-10.35	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*						54.	00		Horizontal

#### Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test	t channel:	lowes	st	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.12	31.79	8.62	32.10	48.43	74.00	-25.57	Vertical
7236.00	34.11	36.19	11.68	31.97	50.01	74.00	-23.99	Vertical
9648.00	32.64	38.07	14.16	31.56	53.31	74.00	-20.69	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.82	31.79	8.62	32.10	47.13	74.00	-26.87	Horizontal
7236.00	33.87	36.19	11.68	31.97	49.77	74.00	-24.23	Horizontal
9648.00	32.22	38.07	14.16	31.56	52.89	74.00	-21.11	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:				·			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.22	31.79	8.62	32.10	37.53	54.00	-16.47	Vertical
7236.00	22.98	36.19	11.68	31.97	38.88	54.00	-15.12	Vertical
9648.00	22.99	38.07	14.16	31.56	43.66	54.00	-10.34	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.37	31.79	8.62	32.10	36.68	54.00	-17.32	Horizontal
7236.00	22.46	36.19	11.68	31.97	38.36	54.00	-15.64	Horizontal
9648.00	21.97	38.07	14.16	31.56	42.64	54.00	-11.36	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

# Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot; $\ast$ ", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test channel:		Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.21	31.85	8.66	32.12	47.60	74.00	-26.40	Vertical
7311.00	34.20	36.37	11.71	31.91	50.37	74.00	-23.63	Vertical
9748.00	33.67	38.27	14.25	31.56	54.63	74.00	-19.37	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.71	31.85	8.66	32.12	48.10	74.00	-25.90	Horizontal
7311.00	32.85	36.37	11.71	31.91	49.02	74.00	-24.98	Horizontal
9748.00	33.56	38.27	14.25	31.56	54.52	74.00	-19.48	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average valu	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.07	31.85	8.66	32.12	38.46	54.00	-15.54	Vertical
7311.00	22.52	36.37	11.71	31.91	38.69	54.00	-15.31	Vertical
9748.00	22.92	38.27	14.25	31.56	43.88	54.00	-10.12	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.83	31.85	8.66	32.12	38.22	54.00	-15.78	Horizontal
7311.00	21.94	36.37	11.71	31.91	38.11	54.00	-15.89	Horizontal
9748.00	23.28	38.27	14.25	31.56	44.24	54.00	-9.76	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

# Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot; $\star$ ", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		-	Test channel:			Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pread Fact (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4924.00	44.64	31.90	8.70	32.1	15	53.09	74.00		-20.91	Vertical
7386.00	34.81	36.49	11.76	31.8	33	51.23	74.0	00	-22.77	Vertical
9848.00	36.92	38.62	14.31	31.7	77	58.08	74.0	00	-15.92	Vertical
12310.00	*						74.0	00		Vertical
14772.00	*						74.0	00		Vertical
17234.00	*						74.0	00		Vertical
4924.00	43.98	31.90	8.70	32.1	15	52.43	74.0	00	-21.57	Horizontal
7386.00	33.73	36.49	11.76	31.8	33	50.15	74.0	00	-23.85	Horizontal
9848.00	33.10	38.62	14.31	31.7	77	54.26	74.0	00	-19.74	Horizontal
12310.00	*						74.0	00		Horizontal
14772.00	*						74.0	00		Horizontal
17234.00	*						74.0	00		Horizontal
Average value			,							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pread Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	35.57	31.90	8.70	32.1	15	44.02	54.0	00	-9.98	Vertical
7386.00	24.73	36.49	11.76	31.8	33	41.15	54.0	00	-12.85	Vertical
9848.00	25.43	38.62	14.31	31.7	77	46.59	54.0	00	-7.41	Vertical
12310.00	*						54.0	00		Vertical
14772.00	*						54.0	00		Vertical
17234.00	*						54.0	00		Vertical
4924.00	34.36	31.90	8.70	32.1	15	42.81	54.0	00	-11.19	Horizontal
7386.00	23.12	36.49	11.76	31.8	33	39.54	54.0	00	-14.46	Horizontal
9848.00	22.36	38.62	14.31	31.7	77	43.52	54.0	00	-10.48	Horizontal
12310.00	*						54.0	00		Horizontal
14772.00	*						54.0	00		Horizontal
17234.00	*				_		54.0	00		Horizontal

## Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	1	Test channel:			Lowest	
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or .	Level (dBuV/m)	Limit L (dBuV	I I imit	polarization
4824.00	39.68	31.79	8.62	32.1	0	47.99	74.0	0 -26.01	Vertical
7236.00	33.83	36.19	11.68	31.9	7	49.73	74.0	0 -24.27	Vertical
9648.00	32.44	38.07	14.16	31.5	6	53.11	74.0	0 -20.89	Vertical
12060.00	*						74.0	0	Vertical
14472.00	*						74.0	0	Vertical
16884.00	*						74.0	0	Vertical
4824.00	38.44	31.79	8.62	32.1	0	46.75	74.0	0 -27.25	Horizontal
7236.00	33.63	36.19	11.68	31.9	7	49.53	74.0	0 -24.47	Horizontal
9648.00	32.04	38.07	14.16	31.5	6	52.71	74.0	0 -21.29	Horizontal
12060.00	*						74.0	0	Horizontal
14472.00	*						74.0	0	Horizontal
16884.00	*						74.0	0	Horizontal
Average val	ue:		•		•			•	•
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or .	Level (dBuV/m)	Limit L (dBuV	I I imit	polarization
4824.00	28.81	31.79	8.62	32.1	0	37.12	54.0	0 -16.88	Vertical
7236.00	22.71	36.19	11.68	31.9	7	38.61	54.0	0 -15.39	Vertical
9648.00	22.79	38.07	14.16	31.5	6	43.46	54.0	0 -10.54	Vertical
12060.00	*						54.0	0	Vertical
14472.00	*						54.0	0	Vertical
16884.00	*						54.0	0	Vertical
4824.00	28.01	31.79	8.62	32.1	0	36.32	54.0	0 -17.68	Horizontal
7236.00	22.22	36.19	11.68	31.9	7	38.12	54.0	0 -15.88	Horizontal
9648.00	21.79	38.07	14.16	31.5	6	42.46	54.0	0 -11.54	Horizontal
12060.00	*						54.0	0	Horizontal
14472.00	*						54.0	0	Horizontal
16884.00	*						54.0	0	Horizontal

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Tes	st channel:	Midd		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.84	31.85	8.66	32.12	47.23	74.00	-26.77	Vertical
7311.00	33.97	36.37	11.71	31.91	50.14	74.00	-23.86	Vertical
9748.00	33.50	38.27	14.25	31.56	54.46	74.00	-19.54	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.40	31.85	8.66	32.12	47.79	74.00	-26.21	Horizontal
7311.00	32.65	36.37	11.71	31.91	48.82	74.00	-25.18	Horizontal
9748.00	33.41	38.27	14.25	31.56	54.37	74.00	-19.63	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:		•	•	•		•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.73	31.85	8.66	32.12	38.12	54.00	-15.88	Vertical
7311.00	22.29	36.37	11.71	31.91	38.46	54.00	-15.54	Vertical
9748.00	22.77	38.27	14.25	31.56	43.73	54.00	-10.27	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.54	31.85	8.66	32.12	37.93	54.00	-16.07	Horizontal
7311.00	21.75	36.37	11.71	31.91	37.92	54.00	-16.08	Horizontal
9748.00	23.13	38.27	14.25	31.56	44.09	54.00	-9.91	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

#### Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)		Test channel:			Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	ctor	Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4924.00	44.00	31.90	8.70	32.	15	52.45	74.00		-21.55	4924.00
7386.00	34.41	36.49	11.76	31.	.83	50.83	74.	00	-23.17	7386.00
9848.00	36.63	38.62	14.31	31.	.77	57.79	74.	00	-16.21	9848.00
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	43.45	31.90	8.70	32.	15	51.90	74.	00	-22.10	Horizontal
7386.00	33.38	36.49	11.76	31.	.83	49.80	74.	00	-24.20	Horizontal
9848.00	32.83	38.62	14.31	31.	.77	53.99	74.	00	-20.01	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal
Average val	ue:			•						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	ctor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	34.99	31.90	8.70	32.	15	43.44	54.	00	-10.56	Vertical
7386.00	24.35	36.49	11.76	31.	.83	40.77	54.	00	-13.23	Vertical
9848.00	25.15	38.62	14.31	31.	.77	46.31	54.	00	-7.69	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	33.85	31.90	8.70	32.	15	42.30	54.	00	-11.70	Horizontal
7386.00	22.79	36.49	11.76	31.	.83	39.21	54.	00	-14.79	Horizontal
9848.00	22.11	38.62	14.31	31.	.77	43.27	54.	00	-10.73	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*						54.	00		Horizontal

#### Remark:

<sup>1</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2 &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	T40)		Test channel:			Lowe		
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level Limit (dBuV/m) (dBu			Over Limit (dB)	polarization
4844.00	38.73	31.81	8.63	32	.11	47.06	74.	00	-26.94	Vertical
7266.00	33.23	36.28	11.69	31	.94	49.26	74.	00	-24.74	Vertical
9688.00	32.01	38.13	14.21	31	.52	52.83	74.	00	-21.17	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	37.65	31.81	8.63	32	.11	45.98	74.	00	-28.02	Horizontal
7266.00	33.11	36.28	11.69	31	.94	49.14	74.	00	-24.86	Horizontal
9688.00	31.64	38.13	14.21	31	.52	52.46	74.	00	-21.54	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

### Average value:

Average value.								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	27.94	31.81	8.63	32.11	36.27	54.00	-17.73	Vertical
7266.00	22.13	36.28	11.69	31.94	38.16	54.00	-15.84	Vertical
9688.00	22.38	38.13	14.21	31.52	43.20	54.00	-10.80	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.27	31.81	8.63	32.11	35.60	54.00	-18.40	Horizontal
7266.00	21.71	36.28	11.69	31.94	37.74	54.00	-16.26	Horizontal
9688.00	21.41	38.13	14.21	31.52	42.23	54.00	-11.77	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	T40)		Test channel:		Middle			
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4874.00	38.06	31.85	8.66	32.12		46.45	74.00		-27.55	Vertical
7311.00	33.47	36.37	11.71	31.91		49.64	74.0	00	-24.36	Vertical
9748.00	33.15	38.27	14.25	31.56		54.11	74.00		-19.89	Vertical
12185.00	*						74.0	00		Vertical
14622.00	*						74.0	00		Vertical
17059.00	*						74.0	00		Vertical
4874.00	38.74	31.85	8.66	32.	12	47.13	74.0	00	-26.87	Horizontal
7311.00	32.22	36.37	11.71	31.	91	48.39	74.0	00	-25.61	Horizontal
9748.00	33.08	38.27	14.25	31.	56	54.04	74.0	00	-19.96	Horizontal
12185.00	*						74.0	00		Horizontal
14622.00	*						74.0	00		Horizontal
17059.00	*						74.0	00		Horizontal
Average val	ue:		•							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dE	tor	Level (dBuV/m)	Limit I (dBuV		Over Limit (dB)	polarization
4874.00	29.01	31.85	8.66	32.	12	37.40	54.0	00	-16.60	Vertical
7311.00	21.82	36.37	11.71	31.9	91	37.99	54.0	00	-16.01	Vertical
9748.00	22.43	38.27	14.25	31.	56	43.39	54.0	00	-10.61	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	28.92	31.85	8.66	32.	12	37.31	54.0	00	-16.69	Horizontal
7311.00	21.33	36.37	11.71	31.9	91	37.50	54.0	00	-16.50	Horizontal
9748.00	22.82	38.27	14.25	31.	56	43.78	54.0	00	-10.22	Horizontal
12185.00	*						54.0	00		Horizontal
14622.00	*						54.0	00		Horizontal
17059.00	*						54.0	00		Horizontal

#### Remark.

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	T40)	Test	channel:	Highest		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	42.66	31.88	8.68	32.13	51.09	74.00	-22.91	Vertical
7356.00	33.56	36.45	11.75	31.86	49.90	74.00	-24.10	Vertical
9808.00	36.02	38.43	14.29	31.68	57.06	74.00	-16.94	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.31	31.88	8.68	32.13	50.74	74.00	-23.26	Horizontal
7356.00	32.64	36.45	11.75	31.86	48.98	74.00	-25.02	Horizontal
9808.00	32.27	38.43	14.29	31.68	53.31	74.00	-20.69	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:				•			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	33.75	31.88	8.68	32.13	42.18	54.00	-11.82	Vertical
7356.00	23.52	36.45	11.75	31.86	39.86	54.00	-14.14	Vertical
9808.00	24.57	38.43	14.29	31.68	45.61	54.00	-8.39	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	32.79	31.88	8.68	32.13	41.22	54.00	-12.78	Horizontal
7356.00	22.06	36.45	11.75	31.86	38.40	54.00	-15.60	Horizontal
9808.00	21.57	38.43	14.29	31.68	42.61	54.00	-11.39	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

#### Remark:

<sup>1</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

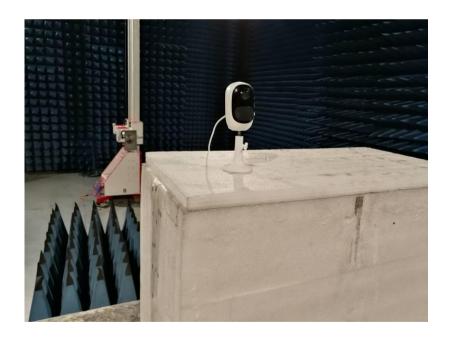
<sup>2 &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



# 8 Test Setup Photo

Radiated Emission







## Conducted Emission





# 9 EUT Constructional Details





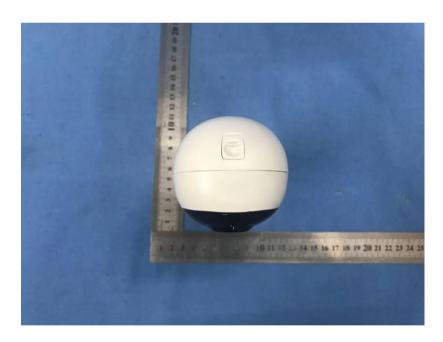


















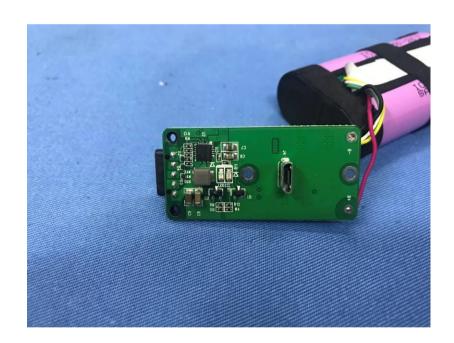
# **GTS**



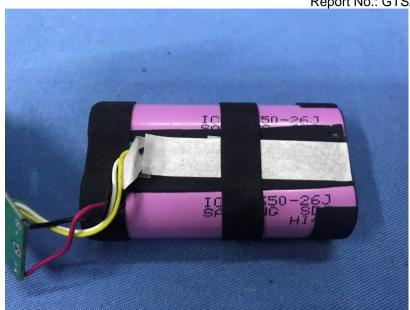


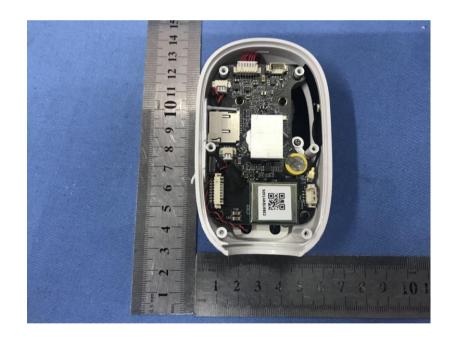
















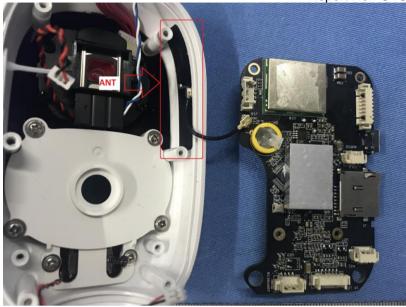












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