FCC RF Test Report

APPLICANT : CT Asia (HK) Ltd.

EQUIPMENT : Smartphone

BRAND NAME : BLU

MODEL NAME : LIFE ONE X

FCC ID : YHLBLULIFEONE54

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Oct. 09, 2015 and testing was completed on Oct. 30, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Prepared by: Andy Yeh / Manager

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

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SPORTON INTERNATIONAL (SHENZHEN) INC.

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Report Issued Date : Nov. 27, 2015

Testing Laboratory

Report No.: FR500914C

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR5O0914C	Rev. 01	Initial issue of report	Nov. 27, 2015

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	RSS-247 5.2(1)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	RSS-Gen 6.6	99% Bandwidth	-	Pass	-
3.2	15.247(b)	RSS-247 A5.4(4)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	RSS-247 5.2(2)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15 247(d)	RSS-247	Conducted Band Edges	< 20dDa	Pass	-
3.4	15.247(d)	5.5	Conducted Spurious Emission	- ≤ 20dBc	Pass	-
3.5	15.247(d)	RSS-247 5.5	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.95 dB at 45.520 MHz
3.6	15.207	RSS-GEN 8.8	AC Conducted Emission	15.207(a)	Pass	Under limit 11.29 dB at 0.500 MHz
3.7	15.203 & 15.247(b)	N/A	Antenna Requirement	N/A	Pass	-

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1 General Description

1.1 Applicant

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.2 Manufacturer

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Smartphone
Brand Name	BLU
Model Name	LIFE ONE X
FCC ID	YHLBLULIFEONE54
	GSM/GPRS/EGPRS/WCDMA/HSPA/
ELIT aumnoute Badica application	HSPA+(16QAM uplink is not supported)/LTE/
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40/
	Bluetooth v3.0+EDR/ Bluetooth v4.0 LE
	Conducted: 353919027679665/353919027689664
IMEI Code	Conduction: 353919027679624/353919027689623
	Radiated: 353919027679616/353919027689615
HW Version	V1.0
SW Version	BLU_5460_V03_GENERIC
EUT Stage	Pre-Production

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4 Product Specification subjective to this standard

802.11b : 17.65 dBm (0.0582 W) Maximum (Peak) Output Power to 802.11g : 21.49 dBm (0.1409 W)		
Tx/Rx Channel Frequency Range	802.11b/g/n : 2412 MHz ~ 2462 MHz	
	802.11b : 17.65 dBm (0.0582 W)	
Maximum (Peak) Output Power to	802.11g : 21.49 dBm (0.1409 W)	
Antenna	802.11n HT20 : 21.50 dBm (0.1413 W)	
	802.11n HT40 : 22.85 dBm (0.1928 W)	
	802.11b : 12.95MHz	
00% Occupied Bandwidth	802.11g : 18.45MHz	
39% Occupied Baildwidth	802.11n HT20 : 19.05MHz	
	802.11n HT40 : 37.00MHz	
Antenna Type	PIFA Antenna with gain 0 dBi	
Type of Medulation	802.11b: DSSS (DBPSK / DQPSK / CCK)	
Type of Modulation	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)	

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

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1.6 Testing Location

Test Site	SPORTON INTERNATIONAL (SHEN)	SPORTON INTERNATIONAL (SHENZHEN) INC.					
	1F & 2F, Building A, Morning Busin	ess Center, No. 4003 ShiGu Rd., Xili					
Test Site Location	Town, Nanshan District, Shenzhen, Guangdong, P. R. China						
Test Site Location	TEL: +86-755-8637-9589						
	FAX: +86-755-8637-9595						
Took Cita No	Sportor	n Site No.					
Test Site No.	TH01-SZ	usiness Center, No. 4003 ShiGu Rd., X					

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.				
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan				
	warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China				
	TEL: +86-755-3320-2398				
Tool Cita No	Sporton Site No.	FCC/IC Registration No.			
Test Site No.	03CH01-SZ				

Note: The test site complies with ANSI C63.4 2009 requirement.

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r03
- ANSI C63.10-2009
- IC RSS-247 Issue 1
- IC RSS-Gen Issue 4

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. FCC permits the use of the 1.5 meter table as an alternative in C63.10-2013 through inquiry tracking number 961829.
- 3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	1	2412	7	2442
	2	2417	8	2447
2400-2483.5 MHz	3	2422	9	2452
2400-2403.3 IVITZ	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-

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2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test shown in the following tables.

	2.4GHz 802.11b RF Output Power (dBm)										
Pov	wer vs. Char	nnel	Power vs. Data Rate								
Channel	Frequency (MHz)	Data Rate	Channel	2Mbps	5.5Mbps	11Mbps					
	(IVITIZ)	1Mbps									
CH 01	2412 MHz	<mark>17.65</mark>									
CH 06	2437 MHz	16.71	CH 01	17.60	17.18	17.42					
CH 11	2462 MHz	16.95									

	2.4GHz 802.11g RF Output Power (dBm)										
Power vs. Channel			Power vs. Data Rate								
Channel	Frequency (MHz)	Data Rate 6Mbps	Channel	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps	
CH 01	2412 MHz	21.37									
CH 06	2437 MHz	<mark>21.49</mark>	CH 06	20.84	21.32	21.42	20.74	20.79	21.44	21.40	
CH 11	2462 MHz	20.74									

	2.4GHz 802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs. MCS Index								
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
CH 01	2412 MHz	21.49									
CH 06	2437 MHz	<mark>21.50</mark>	CH 06	21.16	20.74	20.48	20.71	21.47	21.47	21.38	
CH 11	2462 MHz	20.76									

	2.4GHz 802.11n HT40 RF Output Power (dBm)										
Power vs. Channel				Power vs. MCS Index							
Channel	Frequency (MHz)	MCS Index MCS0	Channel	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
CH 03	2422 MHz	20.89									
CH 06	2437 MHz	<mark>22.85</mark>	CH 06	21.65	21.32	21.39	21.42	22.73	22.23	22.78	
CH 09	2452 MHz	20.36									

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2.3 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

<2.4GHz>

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

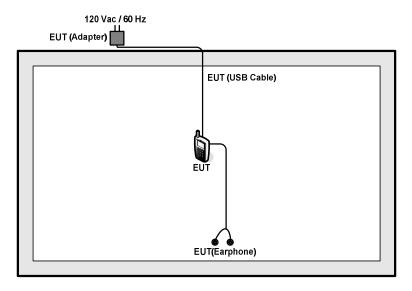
	Test Cases			
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging from Adapter) + SIM1			
Remark: For	Remark: For Radiated Test Cases, The tests were performance with Adapter, Earphone, and USB Cable.			

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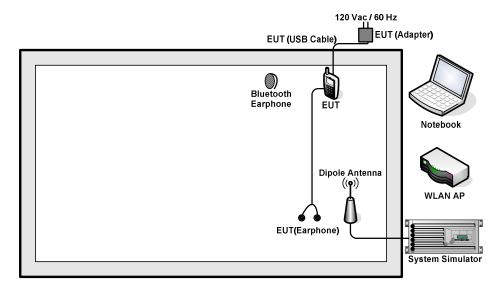
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2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



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2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	E540	FCC DoC	N/A	shielded cable DC O/P 1.8 m unshielded AC I/P cable1.2 m
4.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A

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2.6 EUT Operation Test Setup

For WLAN function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.7 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.0 dB and 10dB attenuator.

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ = 5.0 + 10 = 15.0 (dB)

Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r03.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
- 6. Measure and record the results in the test report.

3.1.4 Test Setup



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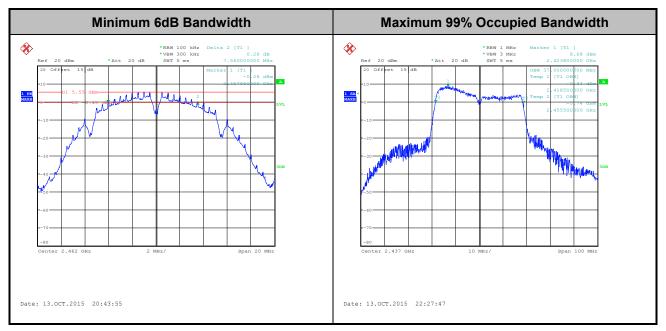
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3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A of this test report.



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting Antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the Antenna exceeds 6dBi.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

- The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas.
 Guidance v03r03 section 9.1.2 PKPM1 Peak power meter method.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A of this test report.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A of this test report.

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3.3 Power Spectral Density Measurement

Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 **Test Procedures**

- The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r03
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully 5. stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.

3.3.4 Test Setup



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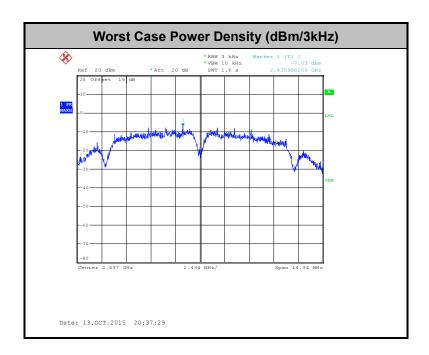
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3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A of this test report.



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3.4 Conducted Band Edges and Spurious Emission Measurement

Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

3.4.2 **Measuring Instruments**

The measuring equipment is listed in the section 4 of this test report.

3.4.3 **Test Procedures**

- The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r03.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



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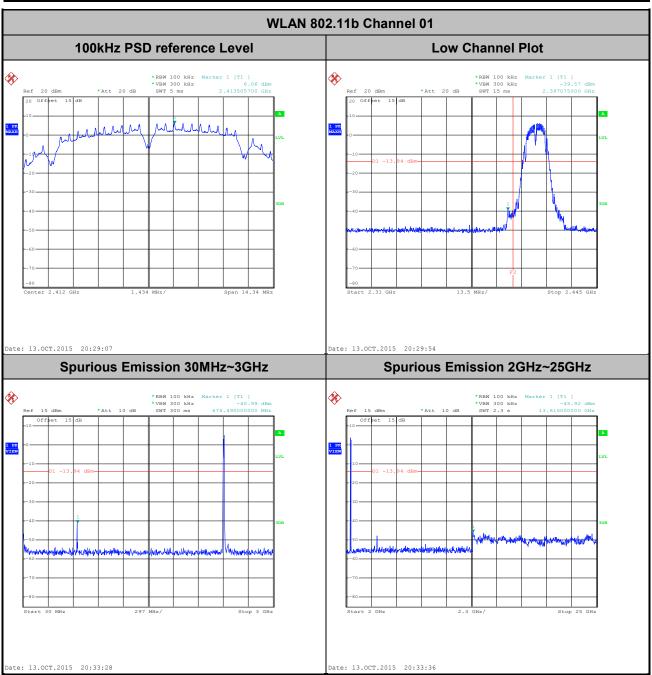
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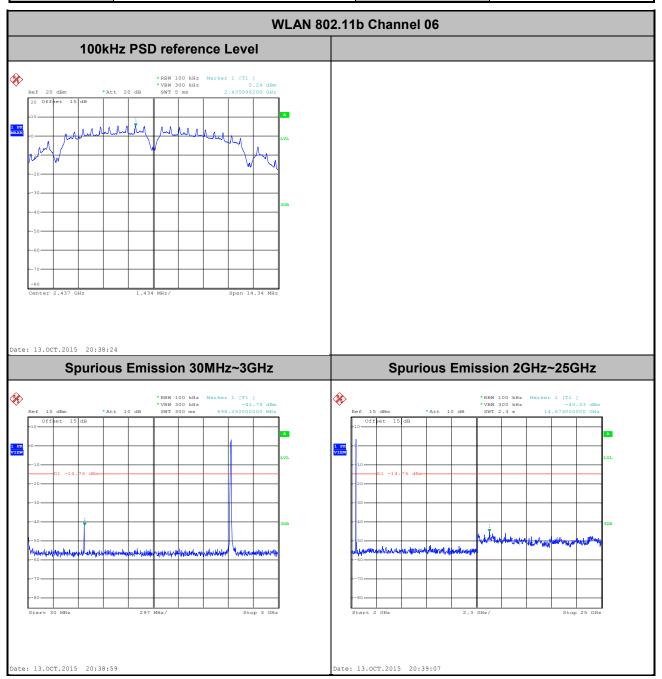
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Mode :	802.11b	Temperature :	24~26°C
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Mygai Mo



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Test Mode :	802.11b	Temperature :	24~26°C
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Mygai Mo

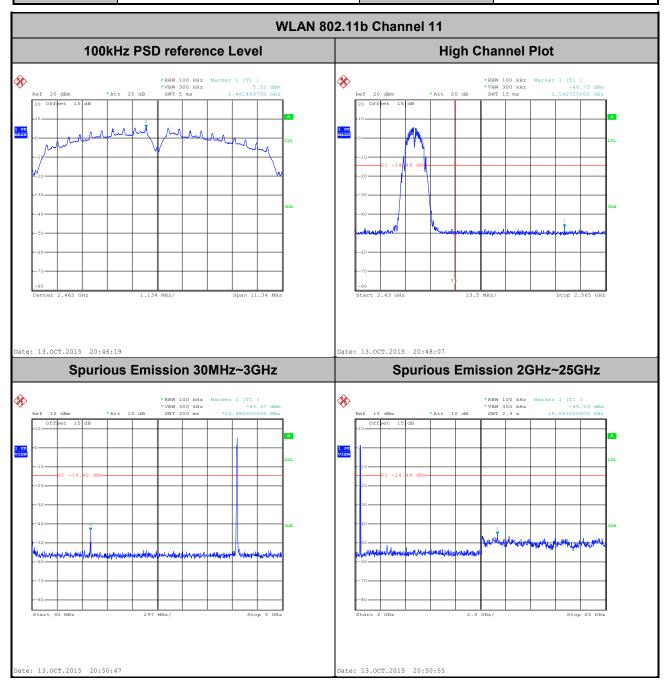


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 Test Mode :
 802.11b
 Temperature :
 24~26°C

 Test Band :
 2.4GHz High
 Relative Humidity :
 50~53%

 Test Channel :
 11
 Test Engineer :
 Mygai Mo

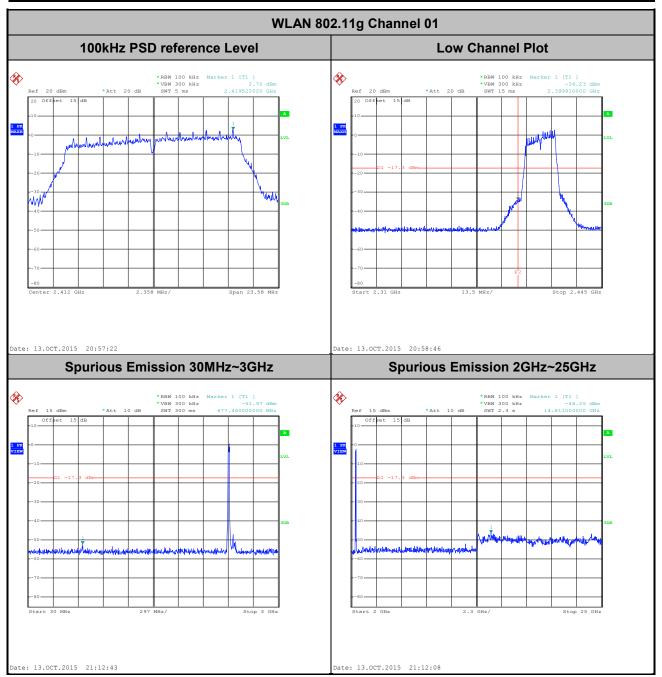


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 Test Mode :
 802.11g
 Temperature :
 24~26°C

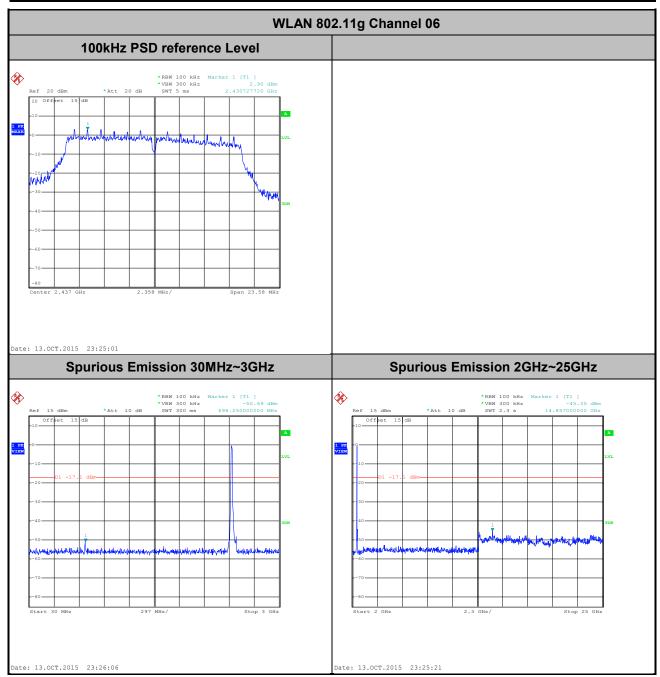
 Test Band :
 2.4GHz Low
 Relative Humidity :
 50~53%

 Test Channel :
 01
 Test Engineer :
 Mygai Mo



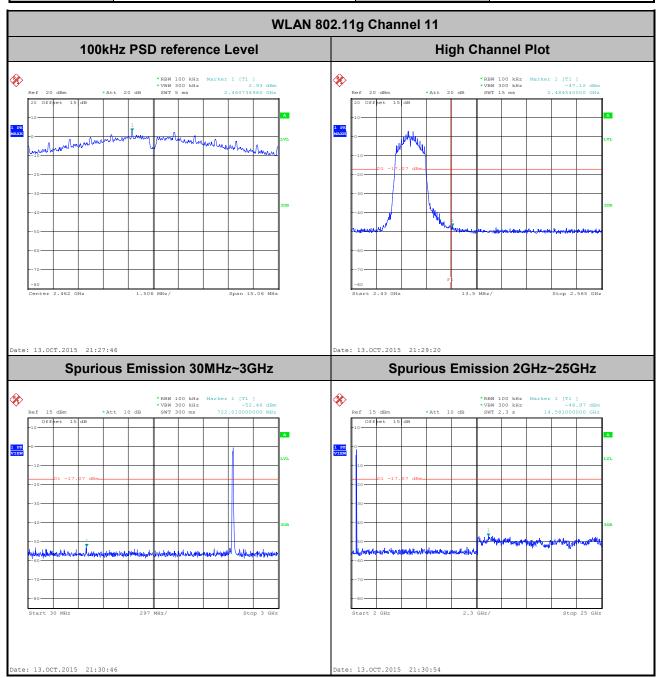
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Test Mode :	802.11g	Temperature :	24~26°C
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Mygai Mo



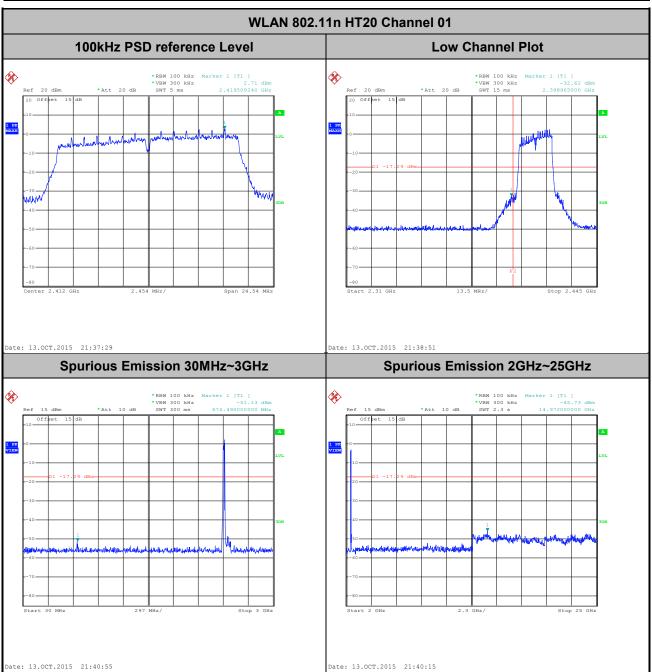
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Test Mode :	802.11g	Temperature :	24~26°C
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Mygai Mo



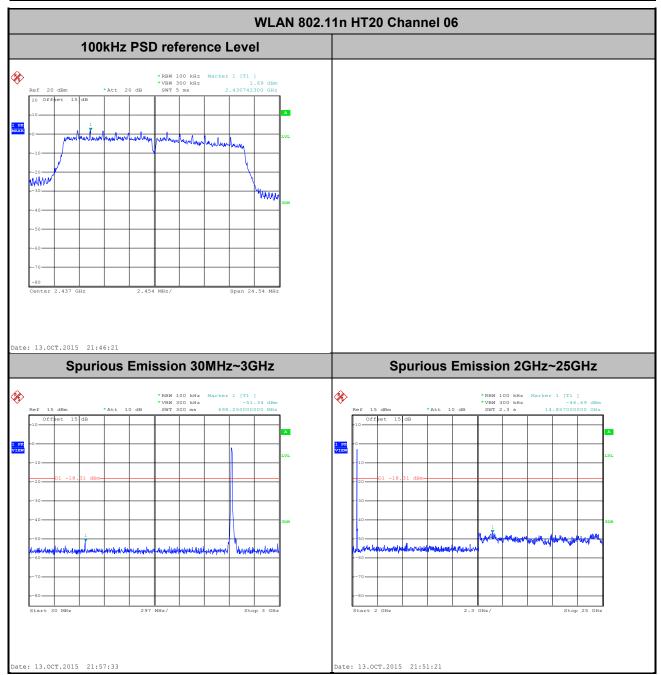
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Test Mode :	802.11n HT20	Temperature :	24~26°C
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	01	Test Engineer :	Mygai Mo



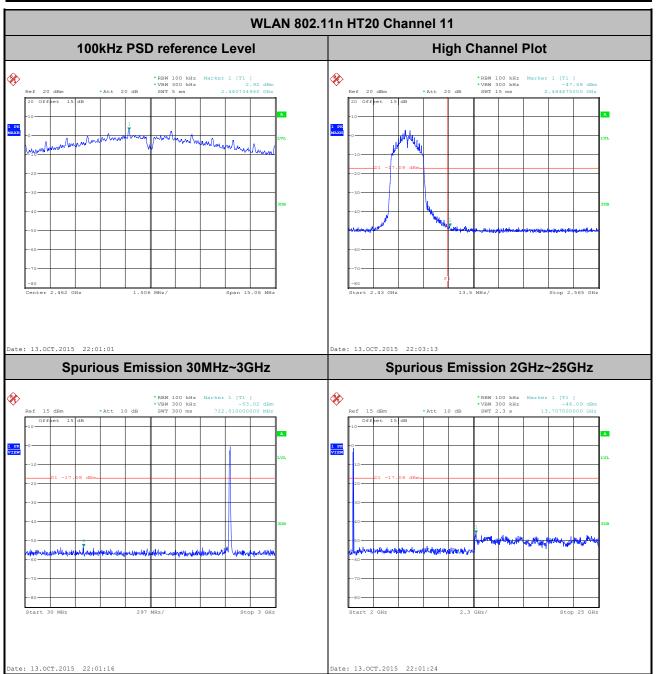
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Test Mode :	802.11n HT20	Temperature :	24~26°C
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Mygai Mo



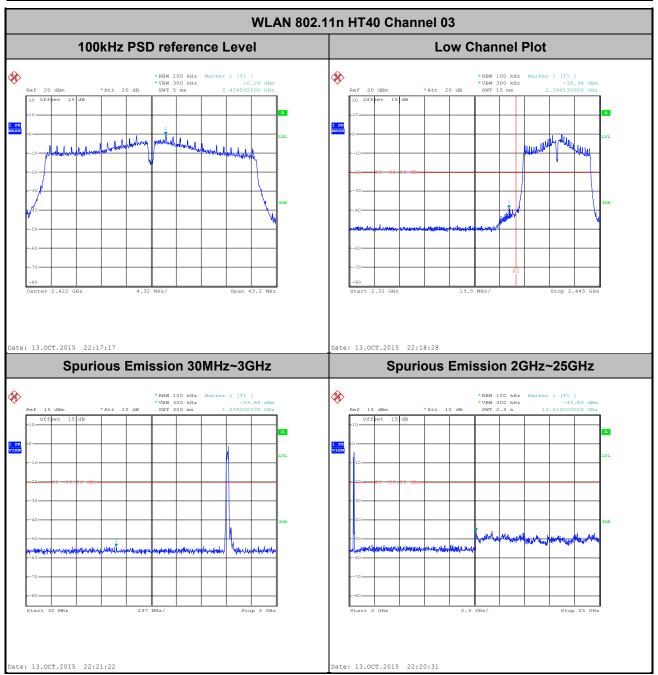
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Test Mode :	802.11n HT20	Temperature :	24~26°C
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	11	Test Engineer :	Mygai Mo



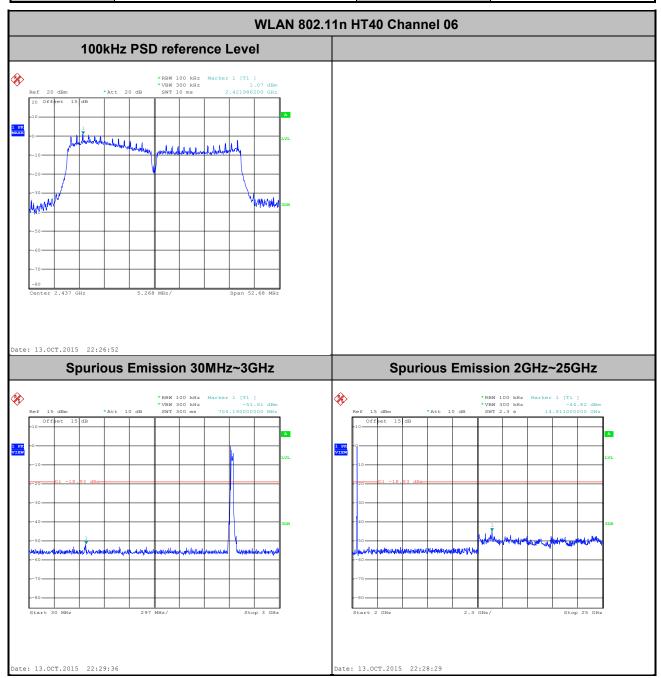
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Test Mode :	802.11n HT40	Temperature :	24~26°C
Test Band :	2.4GHz Low	Relative Humidity :	50~53%
Test Channel :	03	Test Engineer :	Mygai Mo



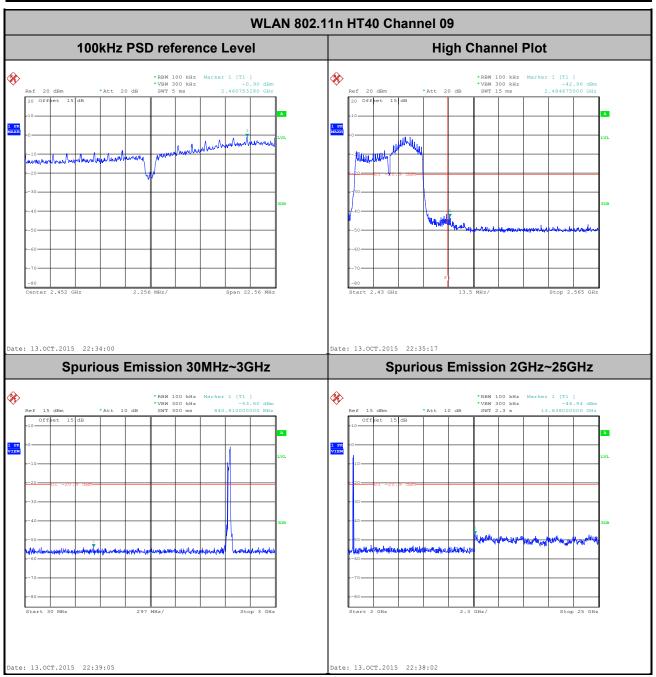
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Test Mode :	802.11n HT40	Temperature :	24~26°C
Test Band :	2.4GHz Mid	Relative Humidity :	50~53%
Test Channel :	06	Test Engineer :	Mygai Mo



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Test Mode :	802.11n HT40	Temperature :	24~26°C
Test Band :	2.4GHz High	Relative Humidity :	50~53%
Test Channel :	09	Test Engineer :	Mygai Mo



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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency	Field Strength	Measurement Distance	
(MHz)	(microvolts/meter)	(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	3	
216 - 960	200	3	
Above 960	500	3	

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.5.3 Test Procedures

- The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r03.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.

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- 3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	97.66	8.35	0.12	300Hz
802.11g	88.61	1.40	0.71	1kHz
2.4GHz 802.11n HT20	88.36	1.31	0.76	1kHz
2.4GHz 802.11n HT40	79.19	0.65	1.54	3kHz

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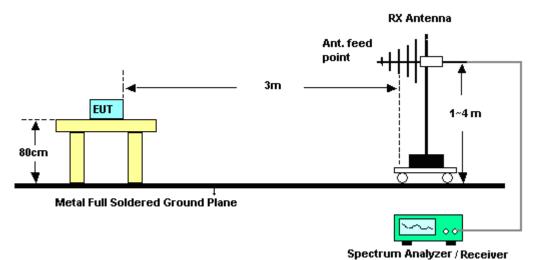
FCC ID: YHLBLULIFEONE54

3.5.4 Test Setup

For radiated emissions below 30MHz

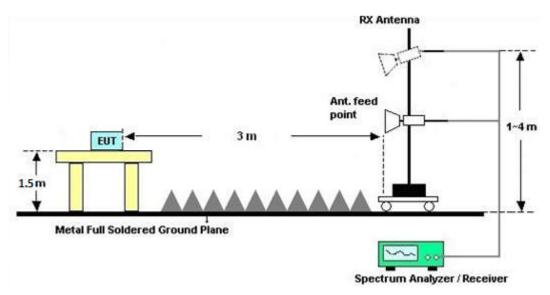


For radiated emissions from 30MHz to 1GHz



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For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

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

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.5.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B.

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3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission	Conducted Limit (dBμV)		
(MHz)	Quasi-Peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

^{*}Decreases with the logarithm of the frequency.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 **Test Procedures**

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

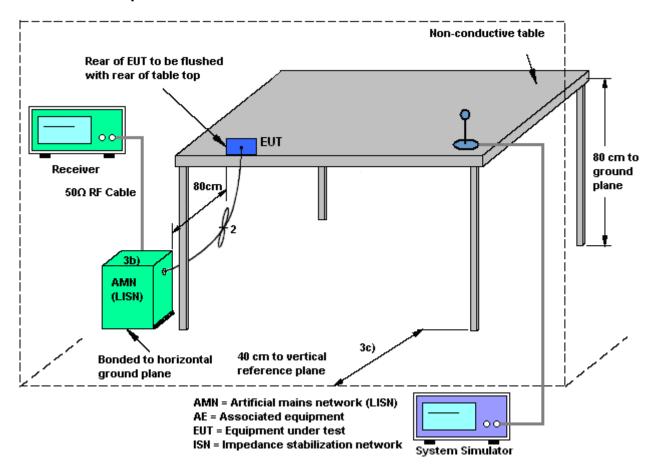
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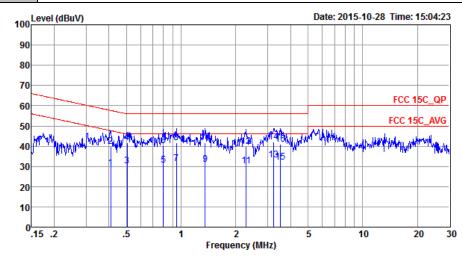
3.6.4 Test Setup



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3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~23 ℃				
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%				
Test Voltage :	120Vac / 60Hz	Phase :	Line				
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging						
	from Adapter) + SIM1						



: CO01-SZ

Condition: FCC 15C QP LISN_L_20150304 LINE

: Mode 1 Mode

: 353919027679624/353919027689623 IMEI Over Limit Read LISN Cable

	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBu₹	dB	dB	
1	0.41	29.22	-18.42	47.64	18.50	0.55	10.17	Average
2	0.41	40.02	-17.62	57.64	29.30	0.55	10.17	QP
3	0.50	30.42	-15.58	46.00	19.59	0.67	10.16	Average
4	0.50	41.52	-14.48	56.00	30.69	0.67	10.16	QP
5	0.80	30.58	-15.42	46.00	19.90	0.53	10.15	Average
6	0.80	40.08	-15.92	56.00	29.40	0.53	10.15	QP
7	0.94	31.27	-14.73	46.00	20.60	0.52	10.15	Average
8	0.94	41.57	-14.43	56.00	30.90	0.52	10.15	QP
9	1.36	30.95	-15.05	46.00	20.29	0.49	10.17	Average
10	1.36	41.65	-14.35	56.00	30.99	0.49	10.17	QP
11	2.28	30.09	-15.91	46.00	19.40	0.49	10.20	Average
12	2.28	39.79	-16.21	56.00	29.10	0.49	10.20	QP
13 *	3.24	33.08	-12.92	46.00	22.30	0.56	10.22	Average
14	3.24	42.08	-13.92	56.00	31.30	0.56	10.22	QP
15	3.51	32.20	-13.80	46.00	21.40	0.58	10.22	Average
16	3.51	40.90	-15.10	56.00	30.10	0.58	10.22	QP

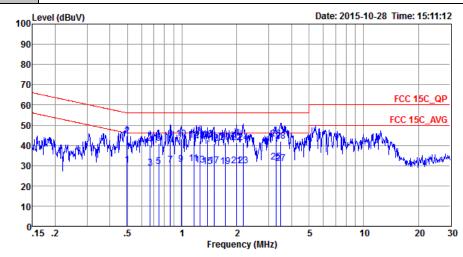
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Test Mode :	Mode 1	Temperature :	21~23 ℃				
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%				
Test Voltage :	120Vac / 60Hz	Phase :	Neutral				
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging						
	from Adapter) + SIM1						



Site : CO01-SZ

Condition: FCC 15C_QP LISN_N_20150304 NEUTRAL

Mode : Mode 1

IMEI : 353919027679624/353919027689623

MEI	: 323313	02/6/96	24/353915		23			
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
_	MHz	dBu₹	dB	dBuV	dBu₹	dB	dB	
1	0.50	30.36	-15.69	46.05	19.59	0.61	10.16	Average
2 *	0.50	44.76	-11.29	56.05	33.99	0.61	10.16	QP
3	0.67	28.91	-17.09	46.00	18.20	0.56	10.15	Average
4	0.67	40.21	-15.79	56.00	29.50	0.56	10.15	QP
5	0.74	29.50	-16.50	46.00	18.80	0.55	10.15	Average
6	0.74	41.10	-14.90	56.00	30.40	0.55	10.15	QP
7	0.86	30.41	-15.59	46.00	19.70	0.56	10.15	Average
8	0.86	43.11	-12.89	56.00	32.40	0.56	10.15	QP
9	0.99	30.51	-15.49	46.00	19.80	0.56	10.15	Average
10	0.99	43.31	-12.69	56.00	32.60	0.56	10.15	QP
L1	1.16	30.82	-15.18	46.00	20.10	0.56	10.16	Average
L2	1.16	42.52	-13.48	56.00	31.80	0.56	10.16	QP
L3	1.26	30.23	-15.77	46.00	19.51	0.56	10.16	Average
14	1.26	42.13	-13.87	56.00	31.41	0.56	10.16	QP
15	1.37	29.53	-16.47	46.00	18.80	0.56	10.17	Average
16	1.37	42.73	-13.27	56.00	32.00	0.56	10.17	QP
17	1.50	29.94	-16.06	46.00	19.20	0.57	10.17	Average
18	1.50	41.04	-14.96	56.00	30.30	0.57	10.17	QP
19	1.73	29.65	-16.35	46.00	18.90	0.57	10.18	Average
20	1.73	41.25	-14.75	56.00	30.50	0.57	10.18	QP
21	1.99	30.06	-15.94	46.00	19.30	0.57	10.19	Average
22	1.99	41.26	-14.74	56.00	30.50	0.57	10.19	QP
23	2.17	30.07	-15.93	46.00	19.30	0.58	10.19	Average
24	2.17	41.27	-14.73	56.00	30.50	0.58	10.19	QP
25	3.29	31.83	-14.17	46.00	21.00	0.61	10.22	Average
26	3.29	43.13	-12.87	56.00	32.30	0.61	10.22	QP
27	3.49	30.94	-15.06	46.00	20.10	0.62	10.22	Average
28	3.49	42.24	-13.76	56.00	31.40	0.62	10.22	QP

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3.7 Antenna Requirements

3.7.1 **Standard Applicable**

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101400	9kHz~40GHz	Jan. 28, 2015	Oct. 13, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Jan. 28, 2015	Oct. 13, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Jan. 28, 2015	Oct. 13, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY522601 85	20Hz~26.5GHz	May 26, 2015	Oct. 30, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 13	10Hz~44GHz; Max 30dBm	Jun. 07, 2015	Oct. 30, 2015	Jun. 06, 2016	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 06, 2015	Oct. 30, 2015	May 05, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz-2GHz	Oct. 17, 2015	Oct. 30, 2015	Oct. 16, 2016	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-128 5	1GHz~18GHz	Jan. 20, 2015	Oct. 30, 2015	Jan. 19, 2016	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Aug.19, 2015	Oct. 30, 2015	Aug. 18, 2016	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz ~3000MHz / 30 dB	Jan. 28, 2015	Oct. 30, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY395013 02	500MHz~26.5G Hz	Jan. 28, 2015	Oct. 30, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 05, 2015	Oct. 30, 2015	May 04, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001 985	N/A	NCR	Oct. 30, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 30, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 30, 2015	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Oct. 28, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Oct. 28, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Oct. 28, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Aug. 07, 2015	Oct. 28, 2015	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 20, 2015	Oct. 28, 2015	Oct. 19, 2016	Conduction (CO01-SZ)

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5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of	2.3dB
Confidence of 95% (U = 2Uc(y))	2.305

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	4.8dB
Confidence of 95% (U = 2Uc(y))	4.0UD

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Appendix A. Conducted Test Results

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A1 - DTS Part

Test Engineer:	Mygai Mo	Temperature:	24~26	°C
Test Date:	Oct. 13, 2015	Relative Humidity:	50~53	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

	2.4GHz Band											
	2.70112 Dailu											
Mod.	Data Rate	NTX	СН.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail				
11b	1Mbps	1	1	2412	12.80	9.56	0.50	Pass				
11b	1Mbps	1	6	2437	12.95	9.56	0.50	Pass				
11b	1Mbps	1	11	2462	11.50	7.56	0.50	Pass				
11g	6Mbps	1	1	2412	17.90	15.72	0.50	Pass				
11g	6Mbps	1	6	2437	18.45	15.72	0.50	Pass				
11g	6Mbps	1	11	2462	16.50	10.04	0.50	Pass				
HT20	MCS0	1	1	2412	18.45	16.36	0.50	Pass				
HT20	MCS0	1	6	2437	19.05	16.36	0.50	Pass				
HT20	MCS0	1	11	2462	17.25	10.04	0.50	Pass				
HT40	MCS0	1	3	2422	35.80	28.80	0.50	Pass				
HT40	MCS0	1	6	2437	37.00	35.12	0.50	Pass				
HT40	MCS0	1	9	2452	36.10	15.04	0.50	Pass				

TEST RESULTS DATA Peak Power Table

	2.4GHz Band											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail		
11b	1Mbps	1	1	2412	17.65	30.00	0.00	17.65	36.00	Pass		
11b	1Mbps	1	6	2437	16.71	30.00	0.00	16.71	36.00	Pass		
11b	1Mbps	1	11	2462	16.95	30.00	0.00	16.95	36.00	Pass		
11g	6Mbps	1	1	2412	21.37	30.00	0.00	21.37	36.00	Pass		
11g	6Mbps	1	6	2437	21.49	30.00	0.00	21.49	36.00	Pass		
11g	6Mbps	1	11	2462	20.74	30.00	0.00	20.74	36.00	Pass		
HT20	MCS0	1	1	2412	21.49	30.00	0.00	21.49	36.00	Pass		
HT20	MCS0	1	6	2437	21.50	30.00	0.00	21.50	36.00	Pass		
HT20	MCS0	1	11	2462	20.76	30.00	0.00	20.76	36.00	Pass		
HT40	MCS0	1	3	2422	20.89	30.00	0.00	20.89	36.00	Pass		
HT40	MCS0	1	6	2437	22.85	30.00	0.00	22.85	36.00	Pass		
HT40	MCS0	1	9	2452	20.36	30.00	0.00	20.36	36.00	Pass		

TEST RESULTS DATA Average Power Table (Reporting Only)

	2.4GHz Band											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)						
11b	1Mbps	1	1	2412	0.10	14.52						
11b	1Mbps	1	6	2437	0.10	13.96						
11b	1Mbps	1	11	2462	0.10	13.28						
11g	6Mbps	1	1	2412	0.53	12.58						
11g	6Mbps	1	6	2437	0.53	12.79						
11g	6Mbps	1	11	2462	0.53	11.68						
HT20	MCS0	1	1	2412	0.54	12.42						
HT20	MCS0	1	6	2437	0.54	12.44						
HT20	MCS0	1	11	2462	0.54	11.26						
HT40	MCS0	1	3	2422	1.01	11.19						
HT40	MCS0	1	6	2437	1.01	12.46						
HT40	MCS0	1	9	2452	1.01	9.55						

TEST RESULTS DATA Peak Power Density

	2.4GHz Band											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail				
11b	1Mbps	1	1	2412	-8.40	0.00	8.00	Pass				
11b	1Mbps	1	6	2437	-7.03	0.00	8.00	Pass				
11b	1Mbps	1	11	2462	-8.35	0.00	8.00	Pass				
11g	6Mbps	1	1	2412	-12.06	0.00	8.00	Pass				
11g	6Mbps	1	6	2437	-11.68	0.00	8.00	Pass				
11g	6Mbps	1	11	2462	-11.36	0.00	8.00	Pass				
HT20	MCS0	1	1	2412	-11.75	0.00	8.00	Pass				
HT20	MCS0	1	6	2437	-13.01	0.00	8.00	Pass				
HT20	MCS0	1	11	2462	-10.76	0.00	8.00	Pass				
HT40	MCS0	1	3	2422	-14.67	0.00	8.00	Pass				
HT40	MCS0	1	6	2437	-13.93	0.00	8.00	Pass				
HT40	MCS0	1	9	2452	-14.25	0.00	8.00	Pass				

Appendix B. Radiated Spurious Emission

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.92	43.36	-30.64	74	46.32	27.25	4.79	35	167	238	Р	Н
		2389.92	31.74	-22.26	54	34.7	27.25	4.79	35	167	238	Α	Н
000 445	*	2412	102.14	-	-	105.01	27.31	4.82	35	167	238	Р	Н
802.11b CH 01	*	2412	98.63	-	-	101.5	27.31	4.82	35	167	238	Α	Н
2412MHz		2338.44	40.29	-33.71	74	43.55	27.07	4.74	35.07	232	315	Р	V
241211112		2389.92	28.01	-25.99	54	30.97	27.25	4.79	35	232	315	Α	V
	*	2412	95.66	-	-	98.53	27.31	4.82	35	232	315	Р	V
	*	2412	92.04	1	-	94.91	27.31	4.82	35	232	315	Α	V
		2389.92	42.1	-31.9	74	45.06	27.25	4.79	35	163	239	Р	Н
		2389.92	30.91	-23.09	54	33.87	27.25	4.79	35	163	239	Α	Н
	*	2437	102.1	-	-	104.83	27.42	4.82	34.97	163	239	Р	Н
	*	2437	98.69	-	-	101.42	27.42	4.82	34.97	163	239	Α	Н
		2484.92	50.88	-23.12	74	53.41	27.54	4.85	34.92	163	239	Р	Н
802.11b		2484.8	40.33	-13.67	54	42.86	27.54	4.85	34.92	163	239	Α	Н
CH 06 2437MHz		2379.66	40.99	-33.01	74	44.03	27.19	4.79	35.02	241	35	Р	V
Z43/ WITIZ		2389.38	27.7	-26.3	54	30.68	27.25	4.79	35.02	241	35	Α	V
	*	2437	96.66	-	-	99.39	27.42	4.82	34.97	241	35	Р	V
	*	2437	93.15	-	-	95.88	27.42	4.82	34.97	241	35	Α	V
		2484	44.69	-29.31	74	47.22	27.54	4.85	34.92	241	35	Р	V
		2484.88	33.44	-20.56	54	35.97	27.54	4.85	34.92	241	35	Α	V

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	*	2462	102.32	-	-	104.94	27.48	4.85	34.95	171	192	Р	Н
	*	2462	98.76	-	-	101.38	27.48	4.85	34.95	171	192	Α	Н
		2484.2	45.13	-28.87	74	47.66	27.54	4.85	34.92	171	192	Р	Н
802.11b		2484.04	32.22	-21.78	54	34.75	27.54	4.85	34.92	171	192	Α	Н
CH 11 2462MHz	*	2462	97.16	-	1	99.78	27.48	4.85	34.95	179	29	Р	V
2402141112	*	2462	93.79	-	1	96.41	27.48	4.85	34.95	179	29	Α	V
		2483.88	41.51	-32.49	74	44.04	27.54	4.85	34.92	179	29	Р	V
		2483.56	29.48	-24.52	54	32.01	27.54	4.85	34.92	179	29	Α	V
Remark	1. No	o other spurious	s found.										
Kelliaik	2. Al	l results are PA	SS against F	Peak and	Average lim	it line.							

SPORTON INTERNATIONAL (SHENZHEN) INC.

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15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	
802.11b		4824	39.82	-34.18	74	60.19	31.05	6.97	58.39	150	360	Р	Н
CH 01 2412MHz		4824	38.94	-35.06	74	59.31	31.05	6.97	58.39	150	360	Р	V
		4874	39.39	-34.61	74	59.94	31.12	6.99	58.66	150	360	Р	Н
802.11b CH 06		7311	45.51	-28.49	74	59.95	35.96	8.22	58.62	174	100	Р	Н
2437MHz		4874	37.98	-36.02	74	58.53	31.12	6.99	58.66	150	360	Р	٧
2437 WII 12		7311	45.08	-28.92	74	59.52	35.96	8.22	58.62	174	100	Р	٧
		4924	38.6	-35.4	74	58.93	31.19	7	58.52	150	360	Р	Н
802.11b		7386	45.08	-28.92	74	59.27	36.08	8.27	58.54	145	274	Р	Н
		4924	38.69	-35.31	74	59.02	31.19	7	58.52	150	360	Р	٧
2462MHz -		7386	45.12	-28.88	74	59.31	36.08	8.27	58.54	145	274	Р	V
802.11b CH 11 2462MHz		4924	38.69 45.12	-35.31	74	59.02	31.19	7	58.52	150	360	P	

No other spurious found. Remark

All results are PASS against Peak and Average limit line.

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15C 2.4GHz 2400~2483.5MHz WIFI 802.11g (Band Edge @ 3m)

				WIFI	302.11g (B	and Edg	je @ 3m)						
WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)		(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)		(P/A)	
		2389.2	50.06	-23.94	74	53.04	27.25	4.79	35.02	153	254	P .	Н
		2389.92	35.24	-18.76	54	38.2	27.25	4.79	35	153	254	Α	Н
802.11g	*	2412	103.17	-	-	106.04	27.31	4.82	35	153	254	Р	Н
CH 01	*	2412	93.04	-	-	95.91	27.31	4.82	35	153	254	Α	Н
2412MHz		2389.92	42.1	-31.9	74	45.06	27.25	4.79	35	175	242	Р	V
		2389.92	29.67	-24.33	54	32.63	27.25	4.79	35	175	242	Α	V
	*	2412	94.18	-	-	97.05	27.31	4.82	35	175	242	Р	V
	*	2412	84.78	-	-	87.65	27.31	4.82	35	175	242	Α	V
		2389.83	44.32	-29.68	74	47.28	27.25	4.79	35	167	232	Р	Н
		2389.74	31.73	-22.27	54	34.71	27.25	4.79	35.02	167	232	Α	Н
	*	2437	103.14	-	-	105.87	27.42	4.82	34.97	167	232	Р	Н
	*	2437	93.68	-	-	96.41	27.42	4.82	34.97	167	232	Α	Н
		2484.64	55.95	-18.05	74	58.48	27.54	4.85	34.92	167	232	Р	Н
802.11g		2483.56	42.48	-11.52	54	45.01	27.54	4.85	34.92	167	232	Α	Н
CH 06		2367.51	41.02	-32.98	74	44.17	27.13	4.74	35.02	150	164	Р	V
2437MHz		2389.92	28.09	-25.91	54	31.05	27.25	4.79	35	150	164	Α	V
	*	2437	93.62	-	-	96.35	27.42	4.82	34.97	150	164	Р	V
	*	2437	84.05	-	-	86.78	27.42	4.82	34.97	150	164	Α	V
		2483.8	46.04	-27.96	74	48.57	27.54	4.85	34.92	150	164	Р	V
		2483.76	33.16	-20.84	54	35.69	27.54	4.85	34.92	150	164	Α	V
	*	2462	102.7	-	-	105.32	27.48	4.85	34.95	156	264	Р	Н
	*	2462	93.73	-	-	96.35	27.48	4.85	34.95	156	264	Α	Н
		2483.72	53.84	-20.16	74	56.37	27.54	4.85	34.92	156	264	Р	Н
802.11g		2483.52	38.7	-15.3	54	41.23	27.54	4.85	34.92	156	264	Α	Н
CH 11	*	2462	94.62	-	-	97.24	27.48	4.85	34.95	150	196	Р	V
2462MHz	*	2462	85.18	-	-	87.8	27.48	4.85	34.95	150	196	Α	V
		2483.6	44.41	-29.59	74	46.94	27.54	4.85	34.92	150	196	Р	V
		2483.52	31.23	-22.77	54	33.76	27.54	4.85	34.92	150	196	Α	V
Remark	1. No	o other spurious	s found.	•	•	•						•	

SPORTON INTERNATIONAL (SHENZHEN) INC.

All results are PASS against Peak and Average limit line.

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15C 2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	
802.11g		4824	40.27	-33.73	74	60.64	31.05	6.97	58.39	150	360	Р	Н
CH 01 2412MHz		4824	38.62	-35.38	74	58.99	31.05	6.97	58.39	150	360	Р	٧
222.44		4874	39.27	-34.73	74	59.82	31.12	6.99	58.66	150	360	Р	Н
802.11g CH 06		7311	44.96	-29.04	74	59.4	35.96	8.22	58.62	174	100	Р	Н
2437MHz		4874	38.52	-35.48	74	59.07	31.12	6.99	58.66	150	360	Р	V
2437 WII IZ		7311	44.32	-29.68	74	58.76	35.96	8.22	58.62	174	100	Р	٧
		4924	38.89	-35.11	74	59.22	31.19	7	58.52	150	360	Р	Н
802.11g		7386	44.72	-29.28	74	58.91	36.08	8.27	58.54	145	274	Р	Н
CH 11	_	4924	40.75	-33.25	74	61.08	31.19	7	58.52	150	360	Р	V
2462MHz		7386	45.3	-28.7	74	59.49	36.08	8.27	58.54	145	274	Р	V

No other spurious found. Remark

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All results are PASS against Peak and Average limit line.

15C 2.4GHz 2400~2483.5MHz WIFI 802.11n HT20 (Band Edge @ 3m)

					. 1111 H120								
WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable .	Preamp	Ant		Peak	Pol.
		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
		2389.74	54.37	-19.63	74	57.35	27.25	4.79	35.02	157	270	Р	Н
		2389.92	36.4	-17.6	54	39.36	27.25	4.79	35	157	270	Α	Н
802.11n	*	2412	101.39	-	-	104.26	27.31	4.82	35	157	270	Р	Н
HT20	*	2412	92.11	-	-	94.98	27.31	4.82	35	157	270	Α	Н
CH 01		2389.29	45.39	-28.61	74	48.37	27.25	4.79	35.02	196	265	Р	V
2412MHz		2389.83	29.91	-24.09	54	32.87	27.25	4.79	35	196	265	Α	٧
	*	2412	94.9	-	-	97.77	27.31	4.82	35	196	265	Р	٧
	*	2412	84.39	-	-	87.26	27.31	4.82	35	196	265	Α	٧
		2389.92	43.72	-30.28	74	46.68	27.25	4.79	35	159	272	Р	Н
		2389.92	32.03	-21.97	54	34.99	27.25	4.79	35	159	272	Α	Н
	*	2437	101.1	-	-	103.83	27.42	4.82	34.97	159	272	Р	Н
	*	2437	91.53	-	-	94.26	27.42	4.82	34.97	159	272	Α	Н
802.11n		2483.76	53.71	-20.29	74	56.24	27.54	4.85	34.92	159	272	Р	Н
HT20		2483.52	41.74	-12.26	54	44.27	27.54	4.85	34.92	159	272	Α	Н
CH 06		2371.11	40.02	-33.98	74	43.06	27.19	4.79	35.02	154	163	Р	٧
2437MHz		2389.74	28.01	-25.99	54	30.99	27.25	4.79	35.02	154	163	Α	V
	*	2437	93.39	-	-	96.12	27.42	4.82	34.97	154	163	Р	V
	*	2437	84.01	-	-	86.74	27.42	4.82	34.97	154	163	Α	V
		2485.48	47.36	-26.64	74	49.89	27.54	4.85	34.92	154	163	Р	٧
		2483.56	34.17	-19.83	54	36.7	27.54	4.85	34.92	154	163	Α	٧
	*	2462	102.14	-	-	104.76	27.48	4.85	34.95	152	261	Р	Н
	*	2462	92.68	-	-	95.3	27.48	4.85	34.95	152	261	Α	Н
802.11n		2484.36	54	-20	74	56.53	27.54	4.85	34.92	152	261	Р	Н
HT20		2483.6	38.63	-15.37	54	41.16	27.54	4.85	34.92	152	261	Α	Н
CH 11	*	2462	95.3	-	-	97.92	27.48	4.85	34.95	151	197	Р	V
2462MHz	*	2462	86.1	-	-	88.72	27.48	4.85	34.95	151	197	Α	٧
		2483.8	46.42	-27.58	74	48.95	27.54	4.85	34.92	151	197	Р	V
		2483.68	32.22	-21.78	54	34.75	27.54	4.85	34.92	151	197	Α	٧
Remark	1. No	o other spurious	s found.										

Remark

2. All results are PASS against Peak and Average limit line.

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
(MHz)	(dBuV/m)	Limit	Line	Level	Factor	Loss	Factor	Pos	î	_	
4824	38.96	-35.04	74	59.33	31.05	6.97	58.39	150	360	P	H
4824	40.63	-33.37	74	61	31.05	6.97	58.39	150	360	Р	V
4874	38.82	-35.18	74	59.37	31.12	6.99	58.66	150	360	Р	Н
7311	46.12	-27.88	74	60.56	35.96	8.22	58.62	174	100	Р	Н
4874	38.76	-35.24	74	59.31	31.12	6.99	58.66	150	360	Р	٧
7311	44.49	-29.51	74	58.93	35.96	8.22	58.62	174	100	Р	٧
4924	38.96	-35.04	74	59.29	31.19	7	58.52	150	360	Р	Н
7386	45.01	-28.99	74	59.2	36.08	8.27	58.54	145	274	Р	Н
4924	40.32	-33.68	74	60.65	31.19	7	58.52	150	360	Р	٧
7386	44.53	-29.47	74	58.72	36.08	8.27	58.54	145	274	Р	٧
	4824 4874 7311 4874 7311 4924 7386 4924	4824 38.96 4824 40.63 4874 38.82 7311 46.12 4874 38.76 7311 44.49 4924 38.96 7386 45.01 4924 40.32	(MHz) (dBμV/m) (dB) 4824 38.96 -35.04 4824 40.63 -33.37 4874 38.82 -35.18 7311 46.12 -27.88 4874 38.76 -35.24 7311 44.49 -29.51 4924 38.96 -35.04 7386 45.01 -28.99 4924 40.32 -33.68	(MHz) (dBμV/m) (dB) (dBμV/m) 4824 38.96 -35.04 74 4824 40.63 -33.37 74 4874 38.82 -35.18 74 7311 46.12 -27.88 74 4874 38.76 -35.24 74 7311 44.49 -29.51 74 4924 38.96 -35.04 74 7386 45.01 -28.99 74 4924 40.32 -33.68 74	(MHz) (dBμV/m) (dB) (dBμV/m) (dBμV/m) (dBμV) 4824 38.96 -35.04 74 59.33 4824 40.63 -33.37 74 61 4874 38.82 -35.18 74 59.37 7311 46.12 -27.88 74 60.56 4874 38.76 -35.24 74 59.31 7311 44.49 -29.51 74 58.93 4924 38.96 -35.04 74 59.29 7386 45.01 -28.99 74 59.2 4924 40.32 -33.68 74 60.65	(MHz) (dBμV/m) (dBμV/m) (dBμV/m) (dBμV) (dBμV) 4824 38.96 -35.04 74 59.33 31.05 4824 40.63 -33.37 74 61 31.05 4874 38.82 -35.18 74 59.37 31.12 7311 46.12 -27.88 74 60.56 35.96 4874 38.76 -35.24 74 59.31 31.12 7311 44.49 -29.51 74 58.93 35.96 4924 38.96 -35.04 74 59.29 31.19 7386 45.01 -28.99 74 59.2 36.08 4924 40.32 -33.68 74 60.65 31.19	(MHz) (dBμV/m) (dB) (dBμV/m) (dBμV) (dB/m) (dB) 4824 38.96 -35.04 74 59.33 31.05 6.97 4824 40.63 -33.37 74 61 31.05 6.97 4874 38.82 -35.18 74 59.37 31.12 6.99 7311 46.12 -27.88 74 60.56 35.96 8.22 4874 38.76 -35.24 74 59.31 31.12 6.99 7311 44.49 -29.51 74 58.93 35.96 8.22 4924 38.96 -35.04 74 59.29 31.19 7 7386 45.01 -28.99 74 59.2 36.08 8.27 4924 40.32 -33.68 74 60.65 31.19 7	(MHz) (dBμV/m) (dBμV/m) (dBμV/m) (dBμV) (dB/m) (dB) (dB) 4824 38.96 -35.04 74 59.33 31.05 6.97 58.39 4824 40.63 -33.37 74 61 31.05 6.97 58.39 4874 38.82 -35.18 74 59.37 31.12 6.99 58.66 7311 46.12 -27.88 74 60.56 35.96 8.22 58.62 4874 38.76 -35.24 74 59.31 31.12 6.99 58.66 7311 44.49 -29.51 74 58.93 35.96 8.22 58.62 4924 38.96 -35.04 74 59.29 31.19 7 58.52 7386 45.01 -28.99 74 59.2 36.08 8.27 58.54 4924 40.32 -33.68 74 60.65 31.19 7 58.52	(MHz) (dBμV/m) (dBμV/m) (dBμV) (dB/m) (dB) (dB) (cm) 4824 38.96 -35.04 74 59.33 31.05 6.97 58.39 150 4824 40.63 -33.37 74 61 31.05 6.97 58.39 150 4874 38.82 -35.18 74 59.37 31.12 6.99 58.66 150 7311 46.12 -27.88 74 60.56 35.96 8.22 58.62 174 4874 38.76 -35.24 74 59.31 31.12 6.99 58.66 150 7311 44.49 -29.51 74 58.93 35.96 8.22 58.62 174 4924 38.96 -35.04 74 59.29 31.19 7 58.52 150 7386 45.01 -28.99 74 59.2 36.08 8.27 58.54 145 4924 40.32 -33.68	(MHz) (dBμV/m) (dBμV/m) (dBμV) (dB/m) (dB) (dB) (cm) (deg) 4824 38.96 -35.04 74 59.33 31.05 6.97 58.39 150 360 4824 40.63 -33.37 74 61 31.05 6.97 58.39 150 360 4874 38.82 -35.18 74 59.37 31.12 6.99 58.66 150 360 7311 46.12 -27.88 74 60.56 35.96 8.22 58.62 174 100 4874 38.76 -35.24 74 59.31 31.12 6.99 58.66 150 360 7311 44.49 -29.51 74 58.93 35.96 8.22 58.62 174 100 4924 38.96 -35.04 74 59.29 31.19 7 58.52 150 360 7386 45.01 -28.99 74 59.2 <td< th=""><th>(MHz) (dBμV/m) (dB) (dBμV/m) (dBμV) (dB/m) (dB) (dB) (cm) (deg) (P/A) 4824 38.96 -35.04 74 59.33 31.05 6.97 58.39 150 360 P 4824 40.63 -33.37 74 61 31.05 6.97 58.39 150 360 P 4874 38.82 -35.18 74 59.37 31.12 6.99 58.66 150 360 P 7311 46.12 -27.88 74 60.56 35.96 8.22 58.62 174 100 P 4874 38.76 -35.24 74 59.31 31.12 6.99 58.66 150 360 P 7311 44.49 -29.51 74 58.93 35.96 8.22 58.62 174 100 P 4924 38.96 -35.04 74 59.29 31.19 7 58.52 150</th></td<>	(MHz) (dBμV/m) (dB) (dBμV/m) (dBμV) (dB/m) (dB) (dB) (cm) (deg) (P/A) 4824 38.96 -35.04 74 59.33 31.05 6.97 58.39 150 360 P 4824 40.63 -33.37 74 61 31.05 6.97 58.39 150 360 P 4874 38.82 -35.18 74 59.37 31.12 6.99 58.66 150 360 P 7311 46.12 -27.88 74 60.56 35.96 8.22 58.62 174 100 P 4874 38.76 -35.24 74 59.31 31.12 6.99 58.66 150 360 P 7311 44.49 -29.51 74 58.93 35.96 8.22 58.62 174 100 P 4924 38.96 -35.04 74 59.29 31.19 7 58.52 150

Remark

SPORTON INTERNATIONAL (SHENZHEN) INC.

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

15C 2.4GHz 2400~2483.5MHz WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(N 411)	(15) ()	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	4100
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)		(P/A)	
		2389.92	53.34	-20.66	74	56.3	27.25	4.79	35	164	233	Р	Н
		2389.92	35.14	-18.86	54	38.1	27.25	4.79	35	164	233	Α	Н
	*	2422	100.87	-	-	103.65	27.37	4.82	34.97	164	233	Р	Н
	*	2422	91.97	-	-	94.75	27.37	4.82	34.97	164	233	Α	Н
802.11n		2483.76	51.13	-22.87	74	53.66	27.54	4.85	34.92	164	233	Р	Н
HT40		2483.52	39.85	-14.15	54	42.38	27.54	4.85	34.92	164	233	Α	Н
CH 03		2389.74	44.74	-29.26	74	47.72	27.25	4.79	35.02	172	228	Р	V
2422MHz		2389.92	29.94	-24.06	54	32.9	27.25	4.79	35	172	228	Α	V
	*	2422	92.46	-	-	95.24	27.37	4.82	34.97	172	228	Р	V
	*	2422	83.04	-	-	85.82	27.37	4.82	34.97	172	228	Α	٧
		2483.72	44.24	-29.76	74	46.77	27.54	4.85	34.92	172	228	Р	V
		2484.16	33.09	-20.91	54	35.62	27.54	4.85	34.92	172	228	Α	٧
		2389.65	48.73	-25.27	74	51.71	27.25	4.79	35.02	165	276	Р	Н
		2389.92	33.13	-20.87	54	36.09	27.25	4.79	35	165	276	Α	Н
	*	2437	101.31	-	-	104.04	27.42	4.82	34.97	165	276	Р	Н
	*	2437	91.85	-	-	94.58	27.42	4.82	34.97	165	276	Α	Н
802.11n		2483.52	53.86	-20.14	74	56.39	27.54	4.85	34.92	165	276	Р	Н
HT40		2483.68	41.12	-12.88	54	43.65	27.54	4.85	34.92	165	276	Α	Н
CH 06		2324.49	40.63	-33.37	74	43.99	27.01	4.7	35.07	161	166	Р	V
2437MHz		2389.92	28.78	-25.22	54	31.74	27.25	4.79	35	161	166	Α	V
	*	2437	92.07	-	-	94.8	27.42	4.82	34.97	161	166	Р	V
	*	2437	82.77	-	-	85.5	27.42	4.82	34.97	161	166	Α	V
		2483.64	45.9	-28.1	74	48.43	27.54	4.85	34.92	161	166	Р	V
		2484.32	33.76	-20.24	54	36.29	27.54	4.85	34.92	161	166	Α	V

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		2330.88	40.92	-33.08	74	44.24	27.01	4.74	35.07	185	240	Р	Н
		2389.83	29.22	-24.78	54	32.18	27.25	4.79	35	185	240	Α	Н
	*	2452	100.82	-	-	103.5	27.42	4.85	34.95	185	240	Р	Н
	*	2452	91.21	-	-	93.89	27.42	4.85	34.95	185	240	Α	Н
802.11n		2483.68	63.79	-10.21	74	66.32	27.54	4.85	34.92	185	240	Р	Н
HT40		2483.52	43.28	-10.72	54	45.81	27.54	4.85	34.92	185	240	Α	Н
CH 09		2314.41	40.57	-33.43	74	43.98	26.96	4.7	35.07	150	198	Р	V
2452MHz		2346.54	28.63	-25.37	54	31.87	27.07	4.74	35.05	150	198	Α	V
	*	2452	90.57	-	-	93.25	27.42	4.85	34.95	150	198	Р	V
	*	2452	81.07	-	-	83.75	27.42	4.85	34.95	150	198	Α	V
		2483.72	53.29	-20.71	74	55.82	27.54	4.85	34.92	150	198	Р	V
		2483.76	33.42	-20.58	54	35.95	27.54	4.85	34.92	150	198	Α	٧
Remark	1. N	o other spurious	s found.					•					
Remark	2. Al	I results are PA	SS against l	Peak and	Average lim	nit line.							

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15C 2.4GHz 2400~2483.5MHz WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	
802.11n		4844	39.27	-34.73	74	59.71	31.07	6.97	58.48	150	360	Р	Н
HT40		7266	45.77	-28.23	74	60.2	35.91	8.19	58.53	200	360	Р	Н
CH 03		4844	39.96	-34.04	74	60.4	31.07	6.97	58.48	150	360	Р	٧
2422MHz		7266	44.68	-29.32	74	59.11	35.91	8.19	58.53	200	360	Р	٧
802.11n		4874	38.73	-35.27	74	59.28	31.12	6.99	58.66	150	360	Р	Н
HT40		7311	44.47	-29.53	74	58.91	35.96	8.22	58.62	150	360	Р	Н
CH 06		4874	39.13	-34.87	74	59.68	31.12	6.99	58.66	150	360	Р	٧
2437MHz		7311	44.91	-29.09	74	59.35	35.96	8.22	58.62	150	360	Р	٧
802.11n		4904	39.14	-34.86	74	59.61	31.17	7	58.64	150	360	Р	Н
HT40		7356	44.44	-29.56	74	58.73	36.03	8.25	58.57	150	360	Р	Н
CH 09		4904	39.34	-34.66	74	59.81	31.17	7	58.64	150	360	Р	٧
2452MHz		7356	44.96	-29.04	74	59.25	36.03	8.25	58.57	150	360	Р	٧
Remark	1. No												

^{2.} All results are PASS against Peak and Average limit line.

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15C Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	1	Avg. (P/A)	(H/V)
		31.94	20.63	-19.37	40	35.87	17.14	1	33.38	-	-	Р	Н
		78.5	19.28	-20.72	40	42.4	9.12	1.14	33.38	-	-	Р	Н
		109.54	24.83	-18.67	43.5	44.7	12.09	1.38	33.34	100	360	Р	Н
		147.37	21.13	-22.37	43.5	41.59	11.25	1.53	33.24	-	-	Р	Н
2.4GHz		180.35	20.59	-22.91	43.5	41.68	10.53	1.57	33.19	-	-	Р	Н
802.11n		256.98	22.56	-23.44	46	41.6	12.22	1.83	33.09	-	-	Р	Н
HT40		31.94	34.53	-5.47	40	49.77	17.14	1	33.38	-	-	Р	٧
LF		45.52	36.05	-3.95	40	57.72	10.72	1	33.39	200	0	Р	٧
		75.59	27.03	-12.97	40	50.72	8.55	1.14	33.38	-	-	Р	٧
		97.9	18.86	-24.64	43.5	38.87	11.98	1.38	33.37	-	-	Р	٧
		193.93	14	-29.5	43.5	35.37	10.23	1.57	33.17	-	-	Р	٧
		884.57	24.59	-21.41	46	31.9	20.96	3.03	31.3	-	-	Р	٧
	1 Na	other equipour	- f	•			•		•	1	•	•	•

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against limit line.

Note symbol

	Fundamental Frequency which can be ignored. However, the level of any
*	unwanted emissions shall not exceed the level of the fundamental frequency per
	15.209(c).
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01												<u> </u>	
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level($dB\mu V/m$) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

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