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FCC RADIO TEST REPORT

Applicant's company	D-Link Corporation
Applicant Address	No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114, Taiwan, R.O.C.
FCC ID	KA2IR895LA1

Product Name	AC5300 Ultra Wi-Fi Router			
Brand Name	D-Link			
Model No.	DIR-895L, DIR-894L			
Test Rule Part(s)	47 CFR FCC Part 15 Subpart C § 15.247			
Test Freq. Range	2400 ~ 2483.5MHz			
Received Date	May 15, 2015			
Final Test Date	Jul. 06, 2016			
Submission Type	Class II Change			

Statement

Test result included is only for the IEEE 802.11b/g, IEEE 802.11n and IEEE 802.11ac of the product.

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in ANSI C63.10-2013, 47 CFR FCC Part 15 Subpart C, KDB558074 D01 v03r05, KDB 662911 D01 v02r01, KDB644545 D01 v01r02.

The test equipment used to perform the test is calibrated and traceable to NML/ROC.









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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR551992-05AA	Rev. 01	Initial issue of report	Nov. 03, 2016

Issued Date :Nov. 03, 2016



Project No: CB10507143

1. VERIFICATION OF COMPLIANCE

Product Name:

AC5300 Ultra Wi-Fi Router

Brand Name :

D-Link

Model No. :

DIR-895L, DIR-894L

Applicant:

D-Link Corporation

Test Rule Part(s) :

47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on May 15, 2015 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

Sam Chen

SPORTON INTERNATIONAL INC.

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2. SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C						
Part Rule Section Description of Test Result						
4.1	15.247(d)	Radiated Emissions	Complies			
4.2	15.247(d)	Band Edge Emissions	Complies			
4.3	15.203	Antenna Requirements	Complies			

3. GENERAL INFORMATION

3.1. Product Details

Items	Description					
Product Type	WLAN (4TX, 4RX)					
Radio Type	Intentional Transceiver					
Power Type	From power adapter					
Modulation	IEEE 802.11b: DSSS					
	IEEE 802.11g: OFDM					
	IEEE 802.11n/ac: see the below table					
Data Modulation	IEEE 802.11b: DSSS (BPSK / QPSK / CCK)					
	IEEE 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)					
	IEEE 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM,					
	1024QAM)					
Data Rate (Mbps)	IEEE 802.11b: DSSS (1/ 2/ 5.5/11)					
	IEEE 802.11g: OFDM (6/9/12/18/24/36/48/54)					
	IEEE 802.11n/ac: see the below table					
Frequency Range	2400 ~ 2483.5MHz					
Channel Number	11 for 20MHz bandwidth ; 7 for 40MHz bandwidth					
Carrier Frequencies	Please refer to section 3.4					
Antenna	Please refer to section 3.3					

Items	Description				
Beamforming Function					

Note: The product has beamforming function for $801.11 \, \text{n/ac}$ in $2.4 \, \text{GHz}$ and $5 \, \text{GHz}$.

Antenna and Band width

Antenna	Four (TX)					
Band width Mode	20 MHz 40 MHz					
IEEE 802.11b	V X					
IEEE 802.11g	V	x				
IEEE 802.11n	V	V				
IEEE 802.11ac	V	V				

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IEEE 802.11n/ac Spec.

Protocol	Number of Transmit Chains (NTX)	Data Rate / MCS
802.11n (HT20)	4	MC\$0-31
802.11n (HT40)	4	MC\$0-31
802.11ac (VHT20)	4	MCS0-11/Nss1-4
802.11ac (VHT40)	4	MCS0-11/Nss1-4

Note 1: IEEE Std. 802.11n modulation consists of HT20 and HT40 (HT: High Throughput). Then EUT supports HT20 and HT40.

Note 2: IEEE Std. 802.11ac modulation consists of VHT20, VHT40, VHT80 and VHT160 (VHT: Very High Throughput). Then EUT supports VHT20, VHT40 in 2.4GHz and supports VHT20, VHT40, VHT80 in 5GHz.

Note 3: Modulation modes consist of below configuration: HT20/HT40: IEEE 802.11n, VHT20/VHT40/VHT80: IEEE 802.11ac

3.2. Accessories

Power	Brand	Model	Rating	Remak		
			Input:100-240V~1.5A 50-60Hz	DC cable		
Adapter	APD	DA-60N12		Non-shielded		
			Output:12V-5A	1.8m		
Others						
Power cable*1, Non-shielded 1.3m						

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3.3. Table for Filed Antenna

					Antenn Gain			Cable Loss			True Gain			
Ant.	Brand Holder	P/N	Antenna -	Connector		(dBi)		(dBi)			(dBi)			
			Туре		2.4G	5G	5G	2.4G	5G	5G	2.4G	5G	5G	
						B1	B4		B1	B4		B1	B4	
1	HL TECHNOLOGY	290-20187	Dipole	SMA Plug	1.8	2.8	2.8	0.5	1.1	0.7	1.3	1.7	2.1	
'	GROUP LIMITED	290-20107	Antenna	Reverse	1.0	2.0	2.0	0.5	1.1	0.7	1.5	1.7	2.1	
2	HL TECHNOLOGY	290-20188	Dipole	SMA Plug			0.0	0.5	1 1	0.7	1 2	1 7	0 1	
2	GROUP LIMITED	290-20100	Antenna	Reverse	1.8	2.8	2.8	0.5	1.1	0.7	1.3	1.7	2.1	
3	HL TECHNOLOGY	290-20188	Dipole	SMA Plug	1.0	0.0	2.8	0.5	1.1	0.7	1.3	1.7	2.1	
3	GROUP LIMITED		Antenna	Reverse	1.8	2.8	2.0	0.5	1.1	0.7	1.5	1.7	2.1	
4	HL TECHNOLOGY	200 20100	290-20188	Dipole	SMA Plug	1.0	0	0.0	0.5	1.1	0.7	1.3	1.7	2.1
4	GROUP LIMITED	290-20100	Antenna	Reverse	1.8	2.8	2.8	0.5	1.1	0.7	1.3	1.7	2.1	
5	HL TECHNOLOGY	290-20187	Dipole	SMA Plug	1.0	0	0.0	0.5	1.1	0.7	1.3	1.7	2.1	
5	GROUP LIMITED	290-2010/	Antenna	Reverse	1.8	2.8	2.8	0.5	1.1	0.7	1.3	1.7	2.1	
	HL TECHNOLOGY	290-20188	Dipole	SMA Plug				0.5	1 1	0.7	1.3	1.7	0.1	
6	GROUP LIMITED	290-20100	Antenna	Reverse	1.8	2.8	2.8	0.5	1.1	0.7	1.3	1.7	2.1	
7	HL TECHNOLOGY	200 20122	Dipole	SMA Plug		0.0	0.0	0.5	1 1	0.7	1.2	1 7	0.1	
7	GROUP LIMITED	290-20188	Antenna	Reverse	1.8	2.8	2.8	0.5	1.1	0.7	1.3	1.7	2.1	
0	HL TECHNOLOGY	200 20122	Dipole	SMA Plug	1.0	0.0	0.0	0.5	1 1	0.7	1.2	1 7	0.1	
8	GROUP LIMITED	290-20188	Antenna	Reverse	1.8	2.8	2.8	0.5	1.1	0.7	1.3	1.7	2.1	

Note: The EUT has eight antennas.

<For 2.4GHz Band>

For IEEE 802.11b/g/n/ac mode (4TX/4RX)

Chain 1, Chain 2, Chain 3 and Chain 4 could transmit/receive simultaneously.

<For 5GHz Band 1>

For IEEE 802.11a/n/ac mode (4TX/4RX):

Chain 1, Chain 2, Chain 3 and Chain 4 could transmit/receive simultaneously.

<For 5GHz Band 4>

For IEEE 802.11a/n/ac mode (4TX/4RX):

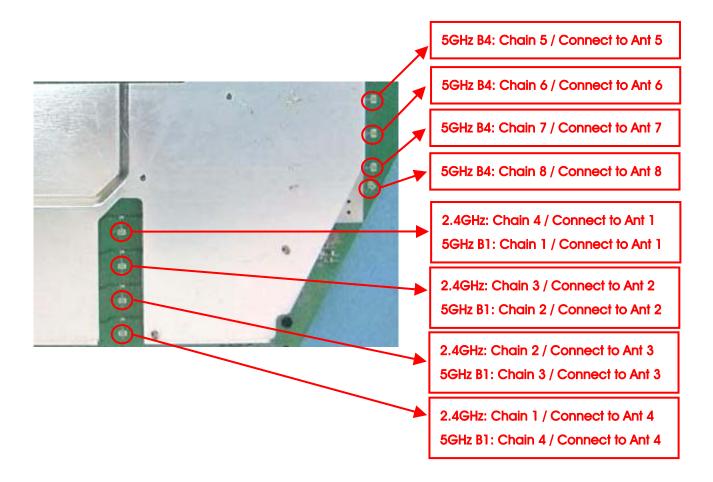
Chain 5, Chain 6, Chain 7 and Chain 8 could transmit/receive simultaneously.

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3.4. Table for Carrier Frequencies

There are two bandwidth systems.

For 20MHz bandwidth systems, use Channel 1~Channel 11.

For 40MHz bandwidth systems, use Channel 3~Channel 9.

Frequency Band	Channel No.	nnel No. Frequency Channel No.		Frequency
2400~2483.5MHz	1	2412 MHz	7	2442 MHz
	2	2417 MHz	8	2447 MHz
	3	2422 MHz	9	2452 MHz
	4	2427 MHz	10	2457 MHz
	5	2432 MHz	11	2462 MHz
	6	2437 MHz	-	-

3.5. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel	Chain
Radiated Emissions Above 1GHz	11b/CCK	1 Mbps	1	1+2+3+4
Band Edge Emissions	11b/CCK	1 Mbps	1	1+2+3+4

Note: All the specification of test configurations and test modes were based on customer's request

The following test modes were performed for all tests:

For Radiated Emission test:

The EUT can be placed in Y-axis and Z-axis. According to the original report, the worst case was found at Y-axis. So The measurement followed the same test mode.

Mode 1. CTX - Place EUT in Y-axis

3.6. Table for Testing Locations

	Test Site Location								
Address:	No.8, L	No.8, Lane 724, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C.							
TEL:	886-3-6	886-3-656-9065							
FAX:	886-3-6	656-9085							
Test Site No. Site Category Location FCC Designation No. IC File No.									
03CH01	03CH01-CB SAC Hsin Chu TW0006 IC 4086D								

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC).

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3.7. Table for Multiple Listing

The model namesin the following table are all refer to the identical product.

Equipment Name	Model Name	Description
AC5300 Ultra Wi-Fi Router	DIR-895L	All the models are identical, the different model name
AC3300 Ulila WI-FI ROUIEI	DIR-894L	for different marketing strategy.

From the above models, model: DIR-895L was selected as representative model for the test and its data was recorded in this report.

3.8. Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR551992AA Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking			
	After evaluating, the worst case is found at 802.11b			
	CH1 and retest this channel only.			
Undating the chip version from PCM4366P1 to	The test item as below.			
Updating the chip version from BCM4366B1 to BCM4366C0.	Radiated Emissions (Above 1GHz)			
BCIVI4300CU.	2. Emissions Measurement			
	Note: The above test items will be based on original			
	output power to re-test.			
Adding a model name: DIR-894L	There's no influence on the original report.			

3.9. Table for Supporting Units

For Test Site No: 03CH01-CB

Support Unit	Brand	Model	FCC ID
Notebook	DELL	E4300	DoC

3.10.EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.11. Duty Cycle

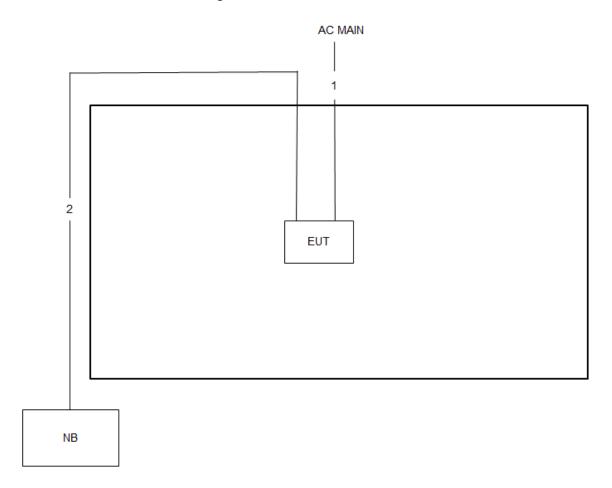
Mode	On Time On+Off Time		Duty Cycle	Duty Factor	1/T Minimum VBW	
IVIOGE	(ms)	(ms)	(%)	(dB)	(kHz)	
802.11b	1.000	1.000	100.00	0.00	0.01	

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3.12. Test Configurations

3.12.1. Radiation Emissions Test Configuration



Item	Connection	Shielded	Length	
1	Power cable	No	3.1m	
2	RJ-45 cable	No	10m	

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4. TEST RESULT

4.1. Radiated Emissions Measurement

4.1.1. Limit

30dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance		
(MHz)	(micorvolts/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		

4.1.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak,
	1MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	100kHz / 300kHz for peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RBW 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RBW 9kHz for QP
Start ~ Stop Frequency	30MHz~1GHz / RBW 120kHz for QP

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4.1.3. Test Procedures

Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5
meter above ground. The phase center of the receiving antenna mounted on the top of a
height-variable antenna tower was placed 1m & 3m far away from the turntable.

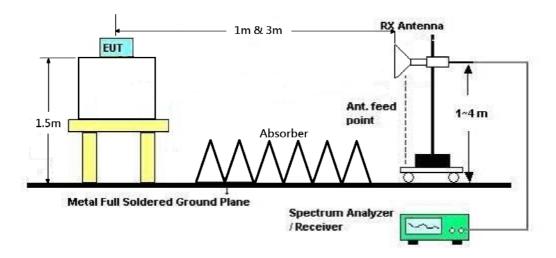
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 1/T VBW for average reading in spectrum analyzer.
- 7. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 8. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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4.1.4. Test Setup Layout



4.1.5. Test Deviation

There is no deviation with the original standard.

4.1.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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4.1.7. Results for Radiated Emissions (1GHz~10th Harmonic)

Temperature	25°C	Humidity	60%
Tost Engineer	Akina Chiu	Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain
Test Engineer	eer Akina Chiu Configurations	2 + Chain 3 + Chain 4	
Test Date	Jul. 06, 2016		

Horizontal

	Freq	Level						Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.98	47.45	54.00	-6.55	40.85	7.22	31.12	31.74	141	273	Average	HORIZONTAL
2	4824.05	50.88	74.00	-23.12	44.28	7.22	31.12	31.74	141	273	Peak	HORIZONTAL

Vertical

		Level				Read CableA Level Loss				T/Pos	Remark	Pol/Phase
			dBuV/m	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg
1	4823.94	49.63	54.00	-4.37	43.03	7.22	31.12	31.74	282	148	Average	VERTICAL
2	4823.97	53.31	74.00	-20.69	46.71	7.22	31.12	31.74	282	148	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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4.2. Emissions Measurement

4.2.1. Limit

30dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance		
(MHz)	(micorvolts/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		

4.2.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak,
	1MHz / 1/T for Average
RBW / VBW (30dBc in any 100 kHz bandwidth emission)	100 kHz / 300 kHz for Peak

4.2.3. Test Procedures

For Radiated band edges Measurement:

The test procedure is the same as section 4.1.3.

For Radiated Out of Band Emission Measurement:

Test was performed in accordance with KDB558074 D01 v03r05 for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 11.0 Unwanted Emissions into Non-Restricted Frequency Bands Measurement Procedure

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4.2.4. Test Setup Layout

For Radiated band edges Measurement:

This test setup layout is the same as that shown in section 4.1.4.

For Radiated Out of Band Emission Measurement:

This test setup layout is the same as that shown in section 4.1.4.

4.2.5. Test Deviation

There is no deviation with the original standard.

4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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4.2.7. Test Result of Band Edge and Fundamental Emissions

Temperature	25 ℃	Humidity	60%		
Test Engineer	Akina Chiu	Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2 + Chain 3 + Chain 4		
Test Date	Jul. 06, 2016				

Channel 1

		Freq	Level	Limit Line		Read Level			Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
		MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1		2388.40	47.85	54.00	-6.15	16.47	4.33	27.05	0.00	172	237	Average	HORIZONTAL
2		2390.00	59.20	74.00	-14.80	27.82	4.33	27.05	0.00	172	237	Peak	HORIZONTAL
3	0	2411.00	116.82			85.37	4.35	27.10	0.00	172	237	Peak	HORIZONTAL
4	0	2411.20	113.13			81.67	4.35	27.11	0.00	172	237	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Note:

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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4.3. Antenna Requirements

4.3.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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 shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.3.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

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5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 18, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-10-7	N/A	N/A	Radiation (03CH01-CB)

Note: Calibration Interval of instruments listed above is one year.

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6. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	Remark
Radiated Emission (1GHz \sim 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz \sim 40GHz)	3.5 dB	Confidence levels of 95%

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