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# TEST REPORT

Application No.:	KSCR2206000904AT
FCC ID:	2APV2-CSH8C1K2
Applicant:	Hangzhou Ezviz Software Co., Ltd.
Address of Applicant:	Room 302,Unit B,Building 2,399 Danfeng Road,Binjiang District,Hangzhou,Zhejiang
Manufacturer:	Hangzhou Ezviz Software Co., Ltd.
Address of Manufacturer:	Room 302,Unit B,Building 2,399 Danfeng Road,Binjiang District,Hangzhou,Zhejiang
Equipment Under Test (EUT	):
EUT Name:	Smart Home Camera
Model No.:	CS-H8c,CS-H8c (1080P),CS-H8c-R100-1K2WKFL(4mm),
	CS-H8c-R100-1K2WKFL(6mm) ♣
<b>"</b>	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	EZVIZ
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2022-06-06
Date of Test:	2022-06-21 to 2022-06-29
Date of Issue:	2022-07-04
Test Result:	Pass*

\* In the configuration tested, the EUT complied with the standards specified above.

Eni fri

Eric Lin Laboratory Manager



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	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2022-07-04		Original	

Authorized for issue by:		
	Paun. Liu	
	Pawn.Liu/Project Engineer	
	Eric fri	
	Eric Lin/Reviewer	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
ltem	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
ltem	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

There are series models mentioned in this report and they are identical on circuitry design, PCB layout, electrical components used, internal wiring and functions. Only the model CS-H8c (1080P) was tested since their differences are model No. and Lens focal length.



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## 4 General Information

## 4.1 Details of E.U.T.

Power supply:	DC 12V by Adapter	
Test Voltage:	120V/60Hz	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz	
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)	
Number of Channels:	802.11b/g/n(HT20):11	
Channel Spacing:	5MHz	
	Antenna 1:Plug-in Antenna	
Antenna Type:	Antenna 2:FPC Antenna	
	Antenna 1:3.44dBi	
Antenna Gain:	Antenna 2:2.50dBi	
	Directional gain:5.99dBi	

### 4.2 Power level setting using in test:

Channel	802.11b				802.11r	n(HT20)
	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
1	28	28	25	25	19	19
6	28	28	25	25	19	19
11	28	28	25	25	19	19

### 4.3 Environment Parameter

Environment Parameter		Selected Values During Tests		sts
Relative Humidity		Ambient		
Value		Temperatu	ure(°C)	Voltage(V)
NTNV		25		AC 120
Note:				
NV:Normal Voltage	LV:Low Extreme Test Vo	Itage	HV:High Extren	ne Test Voltage
NT:Normal Temperature	LT:Low Extreme Test Te	mperature	HT:High Extren	ne Test Temperature



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Description	Manufacturer	Model No.	Serial No.		
Notebook	LENOVO	K27	EB24537645		
SecureCRT	VanDyke	V 6.2.0	1		
Serial port adapter plate	1	Test Plate 3	/		
Adapter	SICHUAN JIUZHOU ELECTRONIC TECHNOLOGY	DYS12100CT-U	1		

## 4.4 Description of Support Units

## 4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
0	DE Dedicted Dewer	5.2dB (Below 1GHz)
8	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
0	Dedicted Courieurs Emission Test	4.5dB (30MHz-1GHz)
9	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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## 4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818 No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

## 4.7 Test Facility

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

#### CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### • A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

#### • FCC (Designation Number: CN1172)

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

#### • ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

#### • VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

### 4.8 Deviation from Standards

None



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### 4.9 Abnormalities from Standard Conditions

None



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## 5 Equipment List

ltem	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Condu	icted Emission at Mains Ter	minals (150kHz-30N	/ //Hz)	-		
1	EMI Test Receive	R&S	ESCI	KS301101	01/22/2022	01/21/2023
2	LISN	LISN R&S		KS301197	01/22/2022	01/21/2023
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/22/2022	01/21/2023
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	CZ301102	11/14/2021	11/13/2022
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
RF Co	nducted Test					
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	10/11/2021	10/10/2022
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001- 2	09/17/2021	09/16/2022
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/22/2022	01/21/2023
4	Signal Generator	R&S	SMW200A	KSEM020-1	10/12/2021	10/11/2022
5	Signal Generator	Agilent	N5182A	KUS2001M001- 1	08/27/2021	08/26/2022
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	09/23/2021	09/22/2022
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	10/12/2021	10/11/2022
9	Switcher	CCSRF	FY562	KUS2001M001- 3	10/12/2021	10/11/2022
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	01/16/2022	01/15/2023
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/01/2021	03/31/2023
15	Software	BST	TST-PASS	/	N/A	N/A
RF Ra	diated Test					
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	10/11/2021	10/10/2022
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	10/18/2021	10/17/2022
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	10/26/2020	10/25/2022



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8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/22/2022	03/21/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
1'	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/14/2021	11/13/2022
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
14	Software	Faratronic	EZ_EMC-v 3A1	/	N/A	N/A



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

#### Standard 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(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### EUT Antenna:

The antenna 1 is Plug-in Antenna and antenna 2 is FPC Antenna antenna, and all no consideration of replacement. The best case gain of the antenna 1 is 3.44dBi. and antenna 2 is 2.50dBi.

Antenna location: Refer to internal photo.



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## 7 Radio Spectrum Matter Test Results

## 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement47 CFR Part 15, Subpart C 15.207Test Method:ANSI C63.10 (2013) Section 6.2Measurement Distance:3m

Limit:

Frequency of	Conducted limit(dBµV)				
emission(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	5-30 60 50				
*Decreases with the logarithm of the frequency.					
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz					

#### 7.1.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	26.5 °C	Humidity:	40.4 % RH	Atmospheric Pressure:	1010	mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.



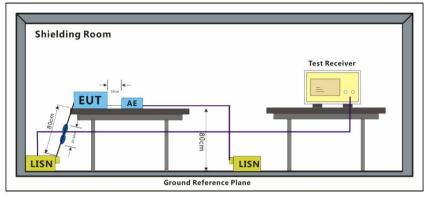
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#### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 $\mu$ H + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



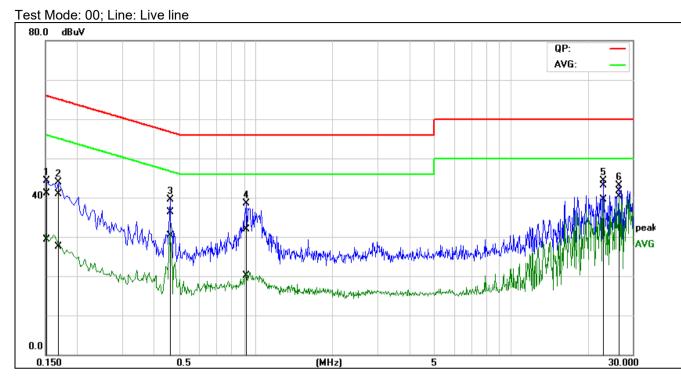
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No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1524	21.68	9.75	19.50	41.18	29.25	65.87	55.87	-24.69	-26.62	Pass
2	0.1671	21.50	7.93	19.50	41.00	27.43	65.10	55.10	-24.10	-27.67	Pass
3	0.4629	16.80	10.83	19.55	36.35	30.38	56.64	46.64	-20.29	-16.26	Pass
4	0.9243	12.37	0.48	19.59	31.96	20.07	56.00	46.00	-24.04	-25.93	Pass
5	23.1294	22.71	19.13	20.30	43.01	39.43	60.00	50.00	-16.99	-10.57	Pass
6*	26.6091	21.47	20.09	20.28	41.75	40.37	60.00	50.00	-18.25	-9.63	Pass



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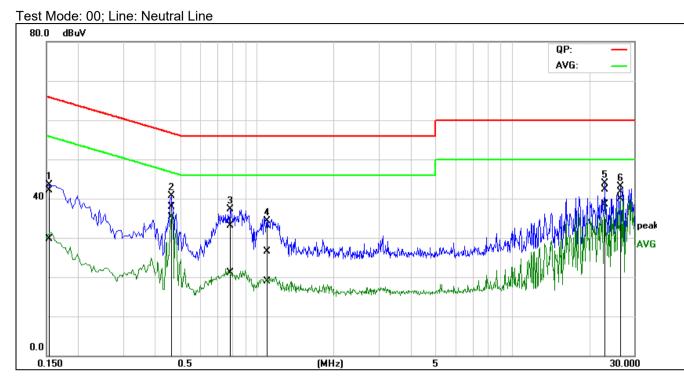
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No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1541	22.69	10.16	19.48	42.17	29.64	65.78	55.78	-23.61	-26.14	Pass
2	0.4611	18.38	15.83	19.55	37.93	35.38	56.67	46.67	-18.74	-11.29	Pass
3	0.7869	13.51	1.60	19.57	33.08	21.17	56.00	46.00	-22.92	-24.83	Pass
4	1.0995	6.99	-0.75	19.60	26.59	18.85	56.00	46.00	-29.41	-27.15	Pass
5	23.1276	21.94	18.29	20.29	42.23	38.58	60.00	50.00	-17.77	-11.42	Pass
6*	26.4878	21.50	19.68	20.28	41.78	39.96	60.00	50.00	-18.22	-10.04	Pass



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## 7.2 Conducted Peak Output Power

Test Requirement	47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method:	ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz) Output power of the intentional radiator(watt)				
	1 for ≥50 hopping channels			
902-928	0.25 for 25≤ hopping channels <50			
	1 for digital modulation			
	1 for ≥75 non-overlapping hopping channels			
2400-2483.5	0.125 for all other frequency hopping systems			
	1 for digital modulation			
5725-5850	1 for frequency hopping systems and digital modulation			

#### 7.2.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	26.6 °C	Humidity:	40.4 % RH	Atmospheric Pressure:	1010	mbar

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.



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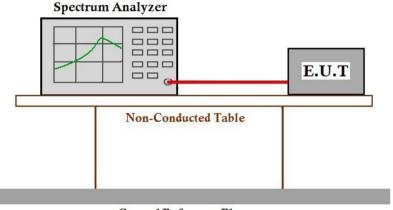
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#### 7.2.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix A for KSCR220600090401



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### 7.3 Minimum 6dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

### 7.3.1 E.U.T. Operation

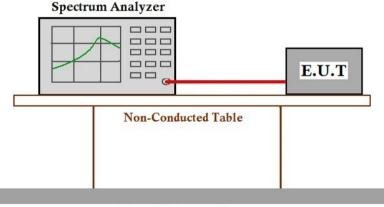
Operating	Environment:
Oberatinu	

1 0				
Temperature:	26.5 °C	Humidity:	40.4 % RH	Atmospheric Pressure: 1010 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

#### 7.3.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix A for KSCR220600090401



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## 7.4 Power Spectrum Density

Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

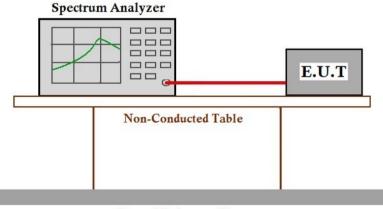
#### 7.4.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	26.5 °C	Humidity:	40.5 % RH	Atmospheric Pressure:	1010	mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

#### 7.4.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix A for KSCR220600090401



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### 7.5 Conducted Band Edges Measurement

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.13.3.2

#### Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 26.6 °C

Humidity: 40.5 % RH

Atmospheric Pressure: 1010 mbar

## Pre-scan / Mode Code Description Final test 00 TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

#### 7.5.2 Test Mode Description



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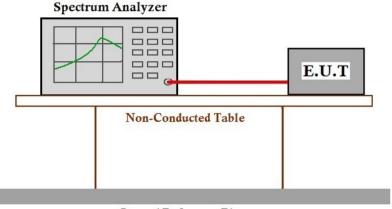
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#### 7.5.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.5.4 Measurement Procedure and Data

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## 7.6 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.11

#### Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 26.5 °C

Humidity: 40.5 % RH

Atmospheric Pressure: 1010 mbar

## Pre-scan Mode Code Description Final test Code Description Final test 00 TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

#### 7.6.2 Test Mode Description



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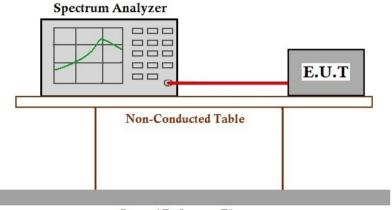
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#### 7.6.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix A for KSCR220600090401



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## 7.7 Radiated Emissions which fall in the restricted bands

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.10.5

I imit<sup>.</sup>

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

#### 7.7.1 E.U.T. Operation

Operating Enviror	nment:						
Temperature:	25.3 °C	Humidity:	50.5 % RH	/	Atmospheric Pressure:	1010	mbar

#### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.



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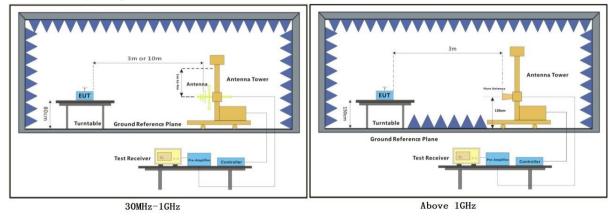
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#### 7.7.3 Test Setup Diagram





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#### 7.7.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. 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.

e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. 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.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



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	0.0 23	310.0002324	1.00 233	8.00 23!	52.00	2356.00	2380.00	2394.0	00 210	8.00 21	22.00	215	
	23		1.00 2338 Reading (dBuV)		ction	Result	Limi	t	00 240 Margin (dB)	8.00 21		215 Remark	).00 MHz
	23 F	10.000 2324 requency	Reading	Corre	ction dB/m)	Result	Limi	t /m)	Margin	8.00 21			).00 MHz
).	23 F	requency (MHz)	Reading (dBuV)	) Corre factor(	ction dB/m) .08	Result (dBuV/m	Limi ) (dBuV	t /m) 0	Margin (dB)	8.00 21		Remark	).00 MHz

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



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1	2	2460.80	0	115.46	-13.			01.68	74	4.00	27.68			peak		
2		2483.50		60.98	-13.			7.27		4.00	-26.73			peak		
3	2	2494.25	0	60.89	-13.			7.22	- 74	4.00	-26.78			peak		
4	2	2500.00	0	59.00	-13.	64	4	5.36	- 74	4.00	-28.64			peak		

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



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	0.0	5.00 2480.0	0 2195.00	2510.00 2	525.00 254	0.00 2555	.00 2570.00	2500.00 Mł	Hz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
1	2460.800	112.40	-13.78	98.62	74.00	24.62		peak	
2	2483.500	60.12	-13.71	46.41	74.00	-27.59		peak	
3	2494.100	60.54	-13.67	46.87	74.00	-27.13		peak	
4	2500.000	58.91	-13.64	45.27	74.00	-28.73		peak	

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



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I				2338.[	10 23!	52.00	235	6.00	238	0.00	239	1.00	2403	B.00	212	2.00			50.00	MHz
	23	310.0002324	1.00 2	2338.[	10 231			6.00	238	0.00				B.00	212	2.00	Ren	21		MHz
	23			2338.0		ction	R				t	Ма	210a argin dB)	B.00	242	2.00	Ren	21		MHz
	23 Fi	110.000 2324 requency	1.00 2	2338.[ 2338.[ 1/y]	Corre	ction dB/m)	R (dE	esult		Limi	t /m)	Ma (0	argin	B.00	212	2.00		21		MHz
	23 Fi	HO.000 2324 requency (MHz)	I.00 a Read (dBu	2338.0 Jing IV) 56	Corre factor(	ction dB/m) .01	R (dE 5	lesult BuV/m)		Limi (dBuV	t /m) 0	Ma (c	argin dB)	8.00	212	2.00	pe	21 nark		MHz

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



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	2310.000202		0 2002.00	2000.00 2	000.00 200	1.00 2.100		E 100:00 mm
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)		Limit (dBuV/m)	Margin (dB)		Remark
1	2388.260	55.44	-14.01	41.43	54.00	-12.57		AVG
2	2390.000	59.16	-14.01	45.15	54.00	-8.85		AVG
3	2410.940	106.57	-13.94	92.63	54.00	38.63		AVG

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	0.0 23	310.0002324	1.00 233	8.00 23	52.00	2356.00	2380.00	2391.00	2408.	00 242	22.00	2150.00	MHz
	23		1.00 233 Reading (dBuV)	g Corre	52.00	Result	Limit	N	2108. 1argin (dB)	00 212		2150.00 mark	MHz
	23 F	310.0002324 requency	Reading	g Corre factor	ection	Result	Limit	m) (	largin	00 212	Rer		MHz
0.	23 F	310.0002324 requency (MHz)	Reading (dBuV)	g Corre factor -14	ection (dB/m)	Result (dBuV/m)	Limit (dBuV/	m) (	largin (dB)	00 242	Rer pe	mark	MHz

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



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	2310.0002324	1.00 2338.0	0 2352.00	2356.00 2	380.00 239	1.00 2408	.00 2122.00	2150.00 MHz
0.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	F	Remark
	2388.540	53.00	-14.01	38.99	54.00	-15.01		AVG
_	2390.000 2410.800	56.09 104.47	-14.01 -13.94	42.08 90.53	54.00 54.00	-11.92 36.53		AVG AVG

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Rem	ark	
1	2463.200	115.96	-13.78	102.18	74.00	28.18		pea	ık	
2	2483.500	72.73	-13.71	59.02	74.00	-14.98		pea	ık	
3	2484.650	70.33	-13.70	56.63	74.00	-17.37		pea	ik	
4	2500.000	60.11	-13.64	46.47	74.00	-27.53		pea	ik	

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rer	mark
1	2460.650	106.49	-13.78	92.71	54.00	38.71		VG
2	2483.500	56.88	-13.71	43.17	54.00	-10.83		VG
3	2485.700	52.83	-13.70	39.13	54.00	-14.87		VG
4	2500.000	49.63	-13.64	35.99	54.00	-18.01	A	VG

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



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	2'	150.0002	2465	5.00 2480	0.00 249	5.00	251	0.00 2	525.0	0 254	10.00 <b>25</b> 8	55.00	257	0.00		2500	.00 M	Hz
No.	F	requenc	су	Reading				esult		imit	Margin				Rem	ark		
_		(MHz)		(dBuV)	factor(c		<u> </u>	BuV/m)	<u> </u>	uV/m)	(dB)	_						
1		2460.65		114.81	-13.		_	01.03		4.00	27.03	_			pea			
2		2483.50		68.86	-13.		_	5.15		4.00	-18.85				pea			
3		2484.50		68.53	-13.			4.83		4.00	-19.17				pea			
4	1	2500.00	0	60.15	-13.	64	4	6.51	74	4.00	-27.49		peak					

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



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	0.0 2'	150.000	215	5.00 248	0.01	D 249	5.00	251	0.00	252	5.00 25'	10.00	255	5.00	257	0.00		26	00.00	MHz
No.	F	requent (MHz)		Reading (dBuV)		Correct factor(d			Result BuV/m)		Limit (dBuV/m)	M	argin dB)				Ren	nark		
1	:	2460.65		105.59		-13.		_	91.81		54.00		7.81				A٧	/G		
2		2483.50		55.32		-13.1			1.61		54.00		2.39				A٧			
3		2485.25		52.05		-13.			38.35		54.00		5.65				A۷			
4		2500.00	00	48.80		-13.	64		35.16		54.00	-1	8.84		AVG					

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



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		1.00 2338. Reading (dBuV)	DO 2352 Correct factor(dl	tion	R	5.00 a	2380.00	it	Ma	2108 argin IB)	.00	2122.				<b>4</b> Hz
	2310.0002324 Frequency	Reading	Correct	tion B/m)	R (dB	esult	Lim	it //m)	Ma (d	argin	.00	2122.	Re	21		<b>d</b> Hz
	2310.0002324 Frequency (MHz)	Reading (dBuV)	Correct factor(d	tion B/m) )1	R (dB 5	esult luV/m)	Lim (dBu\	it //m) 10	Ma (d	argin IB)	.00	2122.	Re	21 emark		dHz

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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	23	10.0002324	.00 23	38.0	0 235	2.00	235	6.00	238	0.00	239	1.00	240	8.00	242	2.00	215	0.00 MI	Hz
lo.	Fr	equency	Readir	ng	Correc	tion	R	esult	Т	Limi	t	Ma	rgin			Re	mark		
		(MHz)	(dBuV		factor(d			BuV/m)		(dBuV			IB)						
		388.540	53.64		-14.			9.63		54.0		-14	4.37			A	VG		
	2	390.000	55.21	1	-14.	01	4	1.20	+	54.0	0	-12	2.80			A	VG		
		410.520	102.7		-13.	0.4	0	8.78	+	54.0	0	2/	.78	-		AVG			

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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	23	10.0002324	1.00 2336	B. D (	) 235	2.00	235	6.00	238	0.00	239	1.00	2408	B.00	212	2.00		2450.00	MHz
).	F	requency (MHz)	Reading (dBuV)		Correc factor(d			lesult BuV/m	)	Limi (dBuV			irgin IB)				Rem	nark	
		2388.680	68.61		-14.			4.60		74.0			9.40				pea		
		2390.000	69.99	I	-14.0	11	5	5.98		74.0	0	-18	8.02				pea	ak	
$\square$		2410.800	110.46	_	-13.			6.52	-+	74.0			2.52	+			pe		

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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100.0 dBu∀/m	· · ·	-	-		-		
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0.0	1.00 2338.0	0 2352.00	2356.00 2.	380.00 239	1.00 2108	.00 2122.00	2150.00 MHz
Frequency	Reading	Correction	Result	Limit	Margin		lemark
2387.980	51.07	-14.02	37.05	54.00	-16.95		AVG
2390.000 2410.520	52.81 100.72	-14.01 -13.94	38.80 86.78	54.00 54.00	-15.20 32.78		AVG AVG
	60 60 60 60 60 60 60 60 60 60	60 60 60 60 60 60 60 60 60 60	60 60 60 60 60 60 60 60 60 60	60	60	60         7           60         7           60         7           7         7	60         3           60         3           60         3           61         3           62         3           63         3           64         3           65         3           66         3           67         3           68         3           69         3           60         3

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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1	120.0 dBu∀/m			,				
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	2450.000 2469	5.00 2480.0	10 2495.00	2510.00 2	525.00 254	0.00 2555	.00 2570.00	2500.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	2460.500	112.35	-13.78	98.57	74.00	24.57		peak
2	2483.500	69.29	-13.71	55.58	74.00	-18.42		peak
3	2484.050	67.84	-13.70	54.14	74.00	-19.86		peak
4	2500.000	58.87	-13.64	45.23	74.00	-28.77		peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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1	20.0 dBuY/m							nit1: — nit2: —
		~						
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	0.0							
	2150.0002165	5.00 2480.0	0 2195.00	2510.00 2	525.00 254	0.00 2555	00 2570.00	2500.00 MHz
<b>D</b> .	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rer	mark
	2460.350	102.80	-13.78	89.02	54.00	35.02		VG
	2483.500	52.28	-13.71	38.57	54.00	-15.43		VG
	2485.850	50.38	-13.70	36.68	54.00	-17.32		VG
	2500.000	47.91	-13.64	34.27	54.00	-19.73	A	VG

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	0.0 2'	150.0002468	5.00 2480	).00	249	5.00	) 251	0.00 2	52	5.00 251	0.00 25	55.00	257	D.00	2600.00	MHz
No.	F	requency (MHz)	Reading (dBuV)		Correct factor(c			esult BuV/m)	(	Limit dBuV/m)	Margin (dB)			Re	emark	
1	1	2460.500	111.53		-13.			7.75		74.00	23.75			F	beak	
2		2483.500	69.65		-13.	71	5	5.94		74.00	-18.06			F	beak	
3	1	2485.850	69.44		-13.	70	5	5.74		74.00	-18.26			F	beak	
4	1	2500.000	59.46		-13.	64	4	5.82		74.00	-28.18		peak			

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	2'	150.000216	5.00 2480	.00 21	95.00	2510	0.00 2	525.00 254	0.00 2559	5.00 257	0.00	2500.00 I	MHz
No.	F	requency (MHz)	Reading (dBuV)		ection (dB/m)		esult luV/m)	Limit (dBuV/m)	Margin (dB)		Rem	nark	
1		2463.350	101.89	-13	.77	8	8.12	54.00	34.12		AV	/G	
2		2483.500	51.71		.71		8.00	54.00	-16.00		AV		
3		2484.650	50.56		.70	L	6.86	54.00	-17.14		AV		
4		2500.000	47.33	-13	.64	3	3.69	54.00	-20.31		AVG		

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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## 7.8 Radiated Spurious Emissions Below 1GHz

Test Requirement47 CFR Part 15, Subpart C 15.205 & 15.209Test Method:ANSI C63.10 (2013) Section 6.4,6.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

#### 7.8.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	25.3 °C	Humidity:	50.5 % RH	Atmospheric Pressure:	1010	mbar

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.



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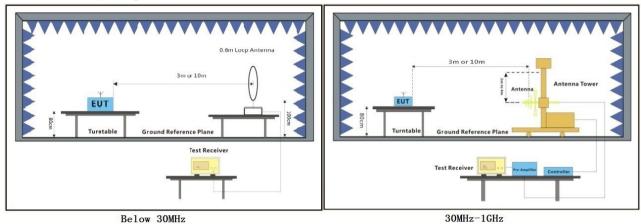
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#### 7.8.3 Test Setup Diagram



#### 7.8.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. 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.

d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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 quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

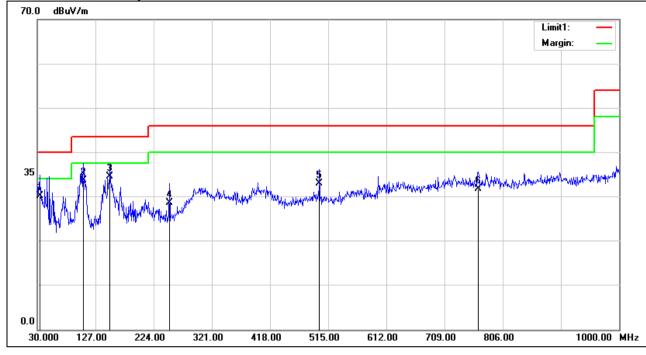


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#### Test Mode: 00; Polarity: Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	34.8500	5.58	24.67	30.25	40.00	-9.75	176	360	QP
2	106.6300	15.69	18.05	33.74	43.50	-9.76	169	360	QP
3	151.2500	16.81	17.80	34.61	43.50	-8.89	100	2	QP
4	250.1900	8.77	19.78	28.55	46.00	-17.45	100	2	QP
5	500.4500	7.19	25.75	32.94	46.00	-13.06	100	155	QP
6	765.2600	3.78	27.98	31.76	46.00	-14.24	100	328	QP



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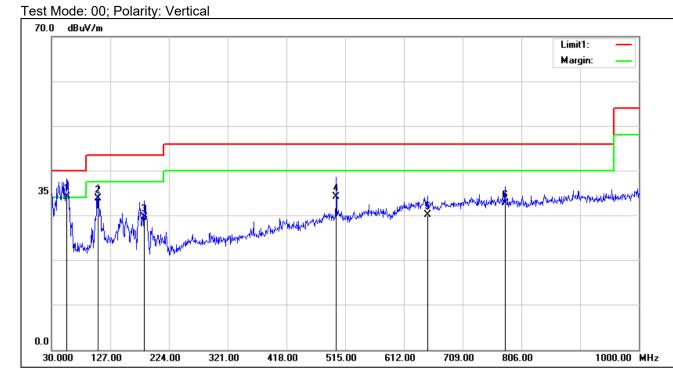
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	55.2200	18.19	16.06	34.25	40.00	-5.75	100	226	QP
2	106.6300	15.89	18.05	33.94	43.50	-9.56	100	257	QP
3	183.2600	13.07	16.51	29.58	43.50	-13.92	100	172	QP
4	500.4500	8.42	25.75	34.17	46.00	-11.83	100	261	QP
5	650.8000	2.61	27.65	30.26	46.00	-15.74	139	360	QP
6	778.8400	4.64	28.20	32.84	46.00	-13.16	100	200	QP



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### 7.9 Radiated Spurious Emissions Above 1GHz

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

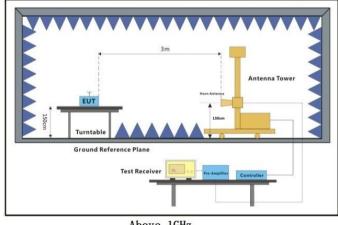
#### 7.9.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	25.3 °C	Humidity:	50.6 % RH	Atmospheric Pressure: 1010 mba	r

#### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

#### 7.9.3 Test Setup Diagram



Above 1GHz



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#### 7.9.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. 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.

d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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 or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

4. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

1	100.0 d⊟u∀/m									
								Limitl: — Limit2: —		
				_						
	50	5	k	*	<u></u>					
	0.0									
	1000.0002700	.00 1100.0	0 6100.00	7800.00 9	500.00  12	00.00 1290	0.00   1600.00	18000.00MHz		
No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark		
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)				
1	4824.000	57.10	-8.78	48.32	74.00	-25.68		peak		
2	7236.000	54.96	-5.86	49.10	74.00	-24.90		peak		
3	9648.000	51.47	-1.31	50.16	74.00	-23.84		peak		



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

1	00.0 dBu∀/m				_				
								Limitl: —	
								Limit2: —	
	F.0		1	3	3				
	50		K	*					
I	0.0								
	1000.0002700	.00 4400.0	0 6100.00	7800.00 9	500.00   2	00.00 1290	0.00 14600.00	18000.00M	Hz
).	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
	4824.000	57.04	-8.78	48.26	74.00	-25.74	peak		
	7236.000	55.74	-5.86	49.88	74.00	-24.12		peak	
+	9648.000	52.00	-1.31	50.69	74.00	-23.31		peak	



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle
--

1	00.0 dBu∀/m_								
								imitl: —	
								imit2: —	
	50		1	2	3 X				
			Ϋ́Ι	<b>↑</b>	1T				
				+ +					
	0.0								
	1000.0002700	.00 1100.0	0 6100.00	7800.00	3500.00  12	00.00 1290	0.00   1600.00	18000.00MHz	
	Frequency	Reading	Correction	Result	Limit	Margin	Re	emark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
T	4874.000	56.97	-8.61	48.36	74.00	-25.64	peak		
1	7311.000	55.12	-5.78	49.34	74.00	-24.66	F	beak	
+	9748.000	51.79	-1.43	50.36	74.00	-23.64	peak		



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Report No.: KSCR220600090401 Page: 57 of 72

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle

1	00.0 dBu∀/m_							
								Limitl: —
								Limit2: —
	50		1	2	3			
	50		Ŷ	1	11			
	0.0							
	1000.0002700	.00 4400.0	0 6100.00	7800.00 9	<u>  </u> 500.00   2	<u>   </u> 00.00  290	0.00 14600.00	IB000.00MHz
	1000.0002700	.00 1100.0	0 5100.00	rouu.uu 3	500.00 112	00.00 1230	0.00 14600.00	18000.00012
).	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
	4874.000	57.00	-8.61	48.39	74.00	-25.61		peak
	7311.000	55.61	-5.78	49.83	74.00	-24.17		peak
+	9748.000	52.09	-1.43	50.66	74.00	-23.34		peak



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Report No.: KSCR220600090401 Page: 58 of 72

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

1	00.0 dBu∀/m_							
								Limitl: —
								Limit2: —
	50		1	2	13			
	50		¥	*	1			
	0.0							
	1000.0002700	.00 4400.0	0 6100.00	7800.00 9	500.00 112	00.00 1290	0.00 14600.00	18000.00MHz
	Frequency	Reading	Correction	Result	Limit	Margin	1	Remark
-	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		Norman
+	4924.000	56.84	-8.44	48.40	74.00	-25.60		peak
┥	7386.000	55.52	-5.69	49.83	74.00	-24.17		peak
+	9848.000	52.14	-1.27	50.87	74.00	-23.13		peak
	3040.000	JZ. 14	-1.27	50.07	14.00	-20.10		pean



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Report No.: KSCR220600090401 Page: 59 of 72

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

1	00.0 d⊟u∀/m							
								Limiti: —
								Limit2: —
					_			
					_			
	50		1	2	2			
	30		Ϋ́	$\uparrow$				
	0.0							
	1000.0002700	.00 1100.0	0 6100.00	7800.00 9	500.00   2	00.00 1290	0.00 14600.00	18000.00MHz
	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
	4924.000	56.91	-8.44	48.47	74.00	-25.53		peak
╡	7386.000	55.04	-5.69	49.35	74.00	-24.65		peak
+	9848.000	52.18	-1.27	50.91	74.00	-23.09		peak



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Report No.: KSCR220600090401 Page: 60 of 72

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

1	00.0 d⊟u∀/m								
								Limitl: —	
								Limit2: —	
	50			2	₹.				
	30		<	1	ľ.				
	0.0								
	1000.0002700	.00 1100.0	0 6100.00	7800.00 9	500.00   2	00.00 1290	0.00  1600.00	18000.00MH	Iz
No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
1	4824.000	56.96	-8.78	48.18	74.00	-25.82		peak	
2	7236.000	55.24	-5.86	49.38	74.00	-24.62		peak	
3	9648.000	51.32	-1.31	50.01	74.00	-23.99		peak	



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Report No.: KSCR220600090401 Page: 61 of 72

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

1	00.0_d⊟u∀/m							
								Limiti: —
					_			Limit2: —
					_			
	50		1	2	3			
		· · ·	Ť					
	0.0							
	1000.0002700	).00 1100.0	10 6100.00	7800.00 9	500.00  12	00.00 1290	0.00  1600.00	18000.00MHz
	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)		
	4824.000	57.52	-8.78	48.74	74.00	-25.26		peak
$\uparrow$	7236.000	55.17	-5.86	49.31	74.00	-24.69		peak
+	9648.000	52.11	-1.31	50.80	74.00	-23.20		peak



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Report No.: KSCR220600090401 Page: 62 of 72

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Ch	Channel:middle
--	----------------

1	00.0 dBu∀/m_							
								Limitl: —
								Limit2: —
						-		
				2	3			
	50		<u>*  </u>	-2	- <u> ř</u>			
	0.0							
	1000.0002700	.00 4400.0	0 6100.00	7800.00	9500.00  12	00.00 1290	0.00  1600.00	18000.00MHz
	Frequency	Reading	Correction	Result	Limit	Margin	R	lemark
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)		
	4874.000	56.79	-8.61	48.18	74.00	-25.82		peak
+	7311.000	54.88	-5.78	49.10	74.00	-24.90		peak
+	9748.000	51.60	-1.43	50.17	74.00	-23.83		peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle

1	00.0 dBu∀/m							
								Limitl: —
								Limit2: —
	50		ļ	2	3			
			ř	Î	1T			
	0.0							
	1000.0002700	.00 1100.0	0 6100.00	7800.00 9	500.00  12	00.00 1290	0.00   1600.00	18000.00MHz
No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.000	57.25	-8.61	48.64	74.00	-25.36		peak
2	7311.000	55.67	-5.78	49.89	74.00	-24.11		peak
3	9748.000	51.55	-1.43	50.12	74.00	-23.88		peak



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Report No.: KSCR220600090401 Page: 64 of 72

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

1	00.0 dBu∀/m_							
								Limitl: —
								Limit2: —
			1	8	3			
	50		*	*	-  <b>f</b>			
	0.0							
	1000.0002700	.00 4400.0	0 6100.00	7800.00 9	500.00 112	00.00 1290	0.00  1600.00	18000.00MHz
).	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		- contain
+	4924.000	57.43	-8.44	48.99	74.00	-25.01		peak
+	7386.000	55.29	-5.69	49.60	74.00	-24.40		peak
+	9848.000	51.84	-1.27	50.57	74.00	-23.43		peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High

1	00.0 dBu∀/m_							
								Limitl: —
								Limit2: —
	F.0		1	2	3			
	50		*	7	11			
I	0.0							
	1000.0002700	.00 4400.0	0 6100.00	7800.00 9	500.00  12	00.00 1290	0.00  1600.00	18000.00MHz
).	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
	4924.000	56.57	-8.44	48.13	74.00	-25.87		peak
	7386.000	54.77	-5.69	49.08	74.00	-24.92		peak
+	9848.000	51.51	-1.27	50.24	74.00	-23.76		peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

1	100.0 d⊟u∀/m							
								Limitl: — Limit2: —
	50			3	J.			
		2	ť	1 I				
	0.0							
	1000.0002700	.00 1100.0	0 6100.00	7800.00 9	500.00  12	00.00 1290	0.00  1600.00	18000.00MHz
No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.000	57.01	-8.78	48.23	74.00	-25.77		peak
2	7236.000	55.24	-5.86	49.38	74.00	-24.62		peak
3	9648.000	51.52	-1.31	50.21	74.00	-23.79		peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

1	00.0 dBu∀/m							
								Limitl: —
								Limit2: —
	F.0		1	2	3			
	50		× I	*	1			
I	0.0							
	1000.0002700	).00 1100.0	10 6100.00	7800.00	9500.00   2	00.00 1290	0.00 14600.00	18000.00MHz
	E	Deeding	Constian	Result	Limit	Maraia	1	Remark
	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)		(dBuV/m)	Margin (dB)		Remark
+	4824.000	57.51	-8.78	48.73	74.00	-25.27		peak
+								
$\downarrow$	7236.000	55.58	-5.86	49.72	74.00	-24.28		peak
	9648.000	52.01	-1.31	50.70	74.00	-23.30		peak



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1	100.0 dBu∀/m			·		-		
								mit1: — mit2: —
				2	1			
	50		×	1	11			
	•							
	0.0	0.00 1100.0	0 6100.00	7800.00 9	500.00   2	00.00 12901	0.00  1600.00	18000.00MHz
No.	Frequency	Reading	Correction	Result	Limit	Margin	Re	mark
1	(MHz) 4874.000	(dBuV) 57.29	factor(dB/m) -8.61	(dBuV/m) 48.68	(dBuV/m) 74.00	(dB) -25.32	p	eak
2	7311.000	55.56	-5.78	49.78	74.00	-24.22		eak
3	9748.000	51.84	-1.43	50.41	74.00	-23.59	р	eak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

1	00.0 dBu∀/m							
								Limitl: —
								Limit2: —
				2	3			
	50		*	*	1			
				+ +				
	0.0							
	1000.0002700	.00 4400.0	0 6100.00	7800.00 9	500.00  12	00.00 1290	0.00  1600.00	18000.00MHz
0.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
	4874.000	56.98	-8.61	48.37	74.00	-25.63	peak	
	7311.000	55.71	-5.78	49.93	74.00	-24.07	peak	
	9748.000	51.52	-1.43	50.09	74.00	-23.91	peak	



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

1	00. <u>0 d⊟u∀/m</u> _							
								Limitl: —
								Limit2: —
			-	3	3			
	50		× I	*	-  <b>f</b>			
	0.0							
	1000.0002700	.00 4400.0	0 6100.00	7800.00 9	500.00 112	00.00 1290	0.00  1600.00	18000.00MHz
).	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		- contain
$\uparrow$	4924.000	56.61	-8.44	48.17	74.00	-25.83	peak	
+	7386.000	55.61	-5.69	49.92	74.00	-24.08	peak	
+	9848.000	51.78	-1.27	50.51	74.00	-23.49	peak	



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

1	00. <u>0 dBu∀/m</u>							
								Limitl: —
								Limit2: —
	F.0		1	8	3			
	50		×	*				
	0.0							
	1000.0002700	.00 4400.0	0 6100.00	7800.00 9	500.00  12	00.00 1290	0.00 14600.00	18000.00MHz
).	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
	4924.000	56.48	-8.44	48.04	74.00	-25.96	peak	
$\uparrow$	7386.000	55.25	-5.69	49.56	74.00	-24.44	peak	
+	9848.000	51.74	-1.27	50.47	74.00	-23.53	peak	



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2206000904AT

# 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2206000904AT

- End of the Report -



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