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# TEST REPORT

Application No.:	KSCR2205000673AT
FCC ID:	2ADTD-I0T2002
Applicant:	Hangzhou Hikvision Digital Technology Co., Ltd
Address of Applicant:	No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China
Manufacturer:	Hangzhou Hikvision Digital Technology Co., Ltd
Address of Manufacturer:	No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China
Factory:	1.Hangzhou Hikvision Technology Co., Ltd.
	2.Hangzhou Hikvision Electronics Co., Ltd.
	3.Chongqing Hikvision technology Co., Ltd.
Address of Factory:	1.No.700,Dongliu Road, Binjiang District, Hangzhou City,Zhejiang, 310052, China.
	2.No.299,Qiushi Road,Tonglu Economic Development Zone,Tonglu County,
	Hangzhou,Zhejiang,310052,China.
	3.No. 118, Haikang Road, Area C, Jianqiao Industrial Park, Dadukou
	District, Chongqing, 401325, China.
Equipment Under Test (EUT	·
EUT Name:	NETWORK CAMERA
	DS-2CV2041G2-IDW,DS-2CV2041G2-IDWUHK,
Model No.:	DS-2CV2041G2-IDWCKV,DS-2CV2041G2-IDWUVS,
	DS-2CV2041G2-IDWKVO,DS-2CV2041G2-IDWHUN
	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2022-05-11
Date of Test:	2022-05-19 to 2022-05-24
Date of Issue:	2022-06-11
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		2022-06-11		Original		

Authorized for issue by:		
	Paun. Lin	
	Pawn.Liu/Project Engineer	
	Eni 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)	Customer Declaration

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 Average 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	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
Conducted Band Edges Measurement		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 the similar in electrical and electronic characters. Only the model DS-2CV2041G2-IDW was tested since their differences are model number.



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Test Report Form Version: Rev01

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# 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 12V 0.58A 7W by Adapter
Test Voltage:	AC 120V/60Hz
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
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;802.11n(HT40):7
Channel Spacing:	5MHz
	Antenna 1: Dipole Antenna
Antenna Type:	Antenna 2 Dipole Antenna
	Antenna 1: 2.15dBi(Provided by manufacturer)
Antenna Gain:	Antenna 2: 2.15dBi(Provided by manufacturer)
	Directional gain:5.16dBi

### 4.2 Power level setting using in test:

Channel	802.11b		802.11g		802.11n(HT20)	
Channel	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
1	24	25	36	36	36	36
6	24	25	36	36	36	36
11	24	25	36	36	36	36
Ohannal	000.44					

Channel	802.11n(HT40)		
	Ant 1	Ant 2	
3	36	36	
6	36	36	
9	36	36	



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### 4.3 Environment Parameter

Environment Parameter		Selected Values During Tests		
Relative Humidity		Ambient		
Value		Temperatu	ıre	Voltage
NTNV		25°C		AC 120V/60Hz
Note:				
NV:Normal Voltage	LV:Low Extreme Test Vo	Itage	HV:High Extren	ne Test Voltage
NT:Normal Temperature	LT:Low Extreme Test Temperature		ature HT:High Extreme Test Temperature	

### 4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	EB24537645
SecureCRT	VanDyke	V 6.2.0	1
Serial port adapter plate	/	Test Plate 3	1
Adapter	HOIOTO	ADS-12FG-12N	/



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# 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
8	RF Radiated Power	5.2dB (Below 1GHz)
0	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Dedicted Sourieus 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.

### 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

### 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	cted Emission at Mains Termin	als (150kHz-30MHz)				
1	EMI Test Receive	II Test Receive R&S ES		100781	01/22/2022	01/21/2023
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
6	Test Software	Faratronic	EZ-EMC	CCS-03A1	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



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7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	10/26/2020	10/25/2022
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)	z~18GHz) PANSHAN TECHNOLOGY		KSEM010-1	01/22/2022	01/21/2023
11	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	1	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 is Dipole Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.15 dBi.

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 Requirement	47 CFR Part 15, Subpart C 15.207
Test Method:	ANSI C63.10 (2013) Section 6.2

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	60	50				
*Decreases with the logarithm of	of the frequency.					
Detector: Peak for pre-scan (9k	Hz resolution bandwidth) 0.15M	to 30MHz				

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

Operating Environment:

-1 5									
Temperat	ure: 2	24	°C	Humidity:	48	% 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.



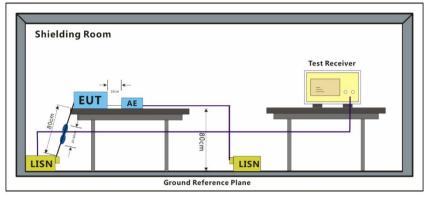
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#### 7.1.3 Test Setup Diagram



#### 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



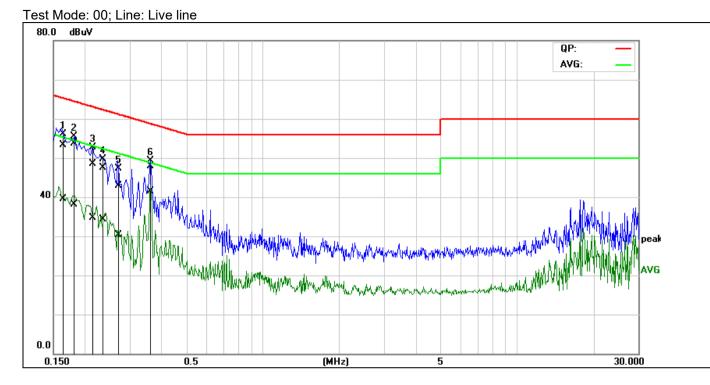
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No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1652	33.74	19.96	19.50	53.24	39.46	65.20	55.20	-11.96	-15.74	Pass
2	0.1811	34.13	18.65	19.50	53.63	38.15	64.44	54.44	-10.81	-16.29	Pass
3	0.2113	29.06	15.24	19.50	48.56	34.74	63.15	53.15	-14.59	-18.41	Pass
4	0.2352	27.99	14.90	19.50	47.49	34.40	62.26	52.26	-14.77	-17.86	Pass
5	0.2726	23.39	10.77	19.51	42.90	30.28	61.04	51.04	-18.14	-20.76	Pass
6*	0.3595	28.30	21.93	19.52	47.82	41.45	58.74	48.74	-10.92	-7.29	Pass



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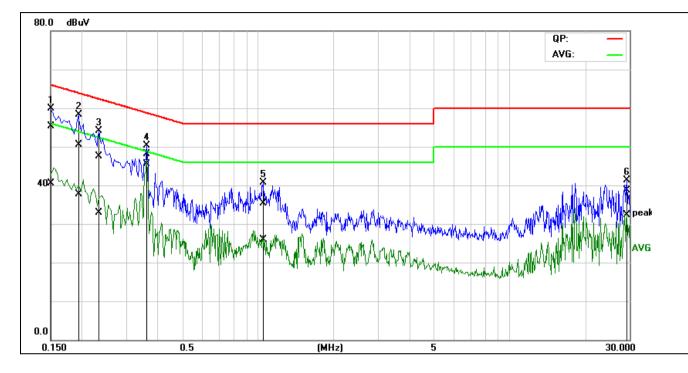
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Test Mode: 00; Line: Neutral Line



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	0.1508	35.75	21.02	19.48	55.23	40.50	65.96	55.96	-10.73	-15.46	Pass
2	0.1949	31.05	18.15	19.49	50.54	37.64	63.83	53.83	-13.29	-16.19	Pass
3	0.2323	28.06	13.37	19.49	47.55	32.86	62.37	52.37	-14.82	-19.51	Pass
4*	0.3602	28.61	25.89	19.52	48.13	45.41	58.72	48.72	-10.59	-3.31	Pass
5	1.0496	15.74	6.37	19.60	35.34	25.97	56.00	46.00	-20.66	-20.03	Pass
6	29.2355	18.48	12.03	20.29	38.77	32.32	60.00	50.00	-21.23	-17.68	Pass



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# 7.2 Conducted Average 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:	24 °	С	Humidity:	48	% 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.



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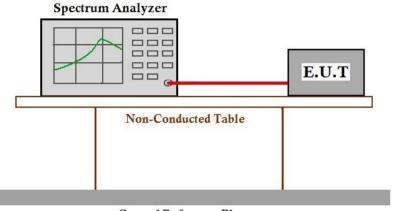
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#### 7.2.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix A for KSCR220500067301



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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

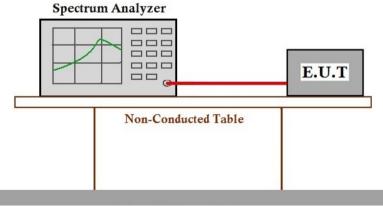
Operating Environment:	
------------------------	--

Temperatu	re: 24	<b>1</b> '	°C	Humidity:	48	% 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). 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 KSCR220500067301



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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

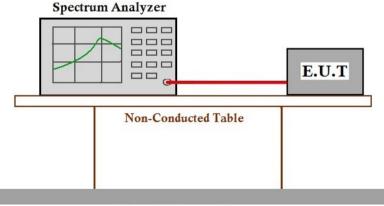
#### 7.4.1 E.U.T. Operation

Operating Enviro	nmen	t:					
Temperature:	24	°C	Humidity:	48	% 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). 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 KSCR220500067301



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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:	24	°C	Humidity:	48	% RH	Atmospheric Pressure:	1010	mbar
remperature.	24	U	nunnuny.	40	70 1 1 1	Autosphene riessule.	1010	mbai

#### 7.5.2 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

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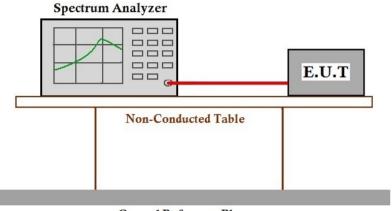
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#### 7.5.3 Test Setup Diagram



**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:	24	$\circ$	Humidity:	10	0/ DU	Atmospheric Pressure:	1010	mhor
remperature.	24	C	riumuny.	40	70 1 1 1	Autospheric Fressure.	1010	mbai

#### 7.6.2 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

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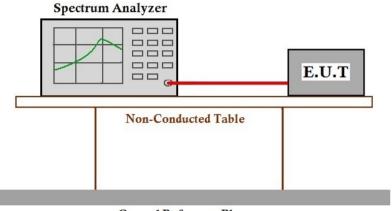
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#### 7.6.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.6.4 Measurement Procedure and Data

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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:	56.1 % 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.



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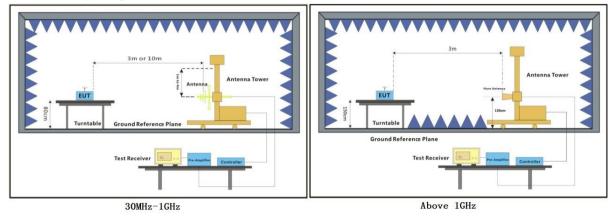
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#### 7.7.3 Test Setup Diagram





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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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	2	310.0002324	LOO 23	338.0	10 235	2.00	235	6.00	23	80.00	239	1.00	240	8.00	) 242	2.00		2450.00	MHz
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		2336.180	62.2		-14.			8.04		74.0			5.96				pea	k	
		2390.000	60.1	7	-14.	01	4	6.16		74.0	)0	-27	7.84				pea	k	
		2412.200	110.2	20	-13.	94	9	6.26		74.0	0	22	2.26				pea	k	

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



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	2150.0002	165	i.00 248)	0.00	0 249	5.00	251	0.00 2	2521	5.00 254	0.00 255	5.00	2570	0.00		2500.00	MHz
No.	Frequenc (MHz)	у	Reading (dBuV)		Correct factor(d			lesult BuV/m)	(	Limit dBuV/m)	Margin (dB)				Rem	ark	
1	2462.00		118.41		-13.	78	1	04.63		74.00	30.63				pea	ak	
2	2483.50		62.33		-13.1			8.62		74.00	-25.38				pea	ak	
3	2485.10		64.50		-13.1			0.80		74.00	-23.20				pea	ak	
4	2500.00	0	61.29		-13.	64	4	7.65		74.00	-26.35				pea	ak	

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



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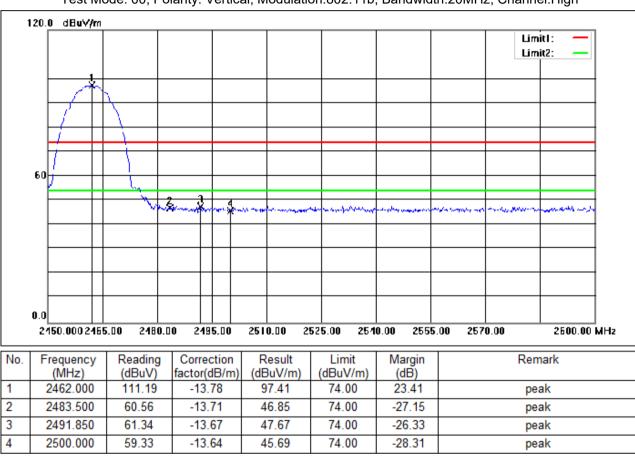
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		310.0002324	1.00 2338	3.00 235	2.00	2356.00	2380.00	239	1.00 24	108.00	2122.00	215	60.00 MHz
	23		LOO 2338 Reading (dBuV)		ction	2356.00 Result (dBuV/m)	Lin	nit	1.00 24 Margir (dB)		2122.00	215 Remark	i0.00 MHz
0.	23 F	requency (MHz) 2381.960	Reading (dBuV) 65.94	factor(c	ction JB/m) 03	Result (dBuV/m) 51.91	Lin (dBu) 74.	nit //m) 00	Margin (dB) -22.09	)	2122.00		50.00 MHz
lo.	23 F	310.0002324 requency (MHz)	Reading (dBuV)	Correct	ction JB/m) 03	Result (dBuV/m)	Lin (dBu)	nit //m) 00	Margir (dB)	)	2122.00	Remark	50.00 MHz

Test Mode: 00; Polarity: Horizontal; 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 2108.	00 2122.00	2150.00 MHz
0.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	emark
	2386.300	52.97	-14.02	38.95	54.00	-15.05		AVG
	2390.000	63.29	-14.01	49.28	54.00	-4.72		AVG
	2415.140	109.80	-13.93	95.87	54.00	41.87	4	AVG

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



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	23 Fi	310.0002324	1.00 233	8.00 239 3 Corre	i2.00	2366. Re (dBu	00 2. sult	380.00 Limi	239 it //m)	1.00 Marg	gin 3)	0 212			2150 ark	
0.	23 Fi	310.0002324 requency (MHz)	1.00 233	8.00 238 ) Corre factor(i	52.00 ction dB/m) 13	2356. (dBu 47	.00 2. sult iV/m)	380.00 Limi (dBuV	239 it //m)	1.00 Mar, (dE	gin 3) .41	0 242		Rem	2150 ark ik	

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



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	0.0 2150.000 2165	.00 2480.0	0 2195.00	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	2468.300	119.20	-13.75	105.45	74.00	31.45		peak
2	2483.500	83.06	-13.71	69.35	74.00	-4.65		peak
3	2484.500	82.40	-13.70	68.70	74.00	-5.30		peak
4	2500.000	61.66	-13.64	48.02	74.00	-25.98		peak

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)	Re	emark
1	2465.150	109.87	-13.76	96.11	54.00	42.11	A	VG
2	2483.500	64.91	-13.71	51.20	54.00	-2.80	A	VG
3	2485.550	58.54	-13.70	44.84	54.00	-9.16		VG
4	2500.000	50.43	-13.64	36.79	54.00	-17.21	Α	VG

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120.0 d⊟u∀/m Limitl Limit2: 60 Augus ward and the web make 0.0 2150.000 2165.00 2510.00 2480.00 2495.00 2525.00 2540.00 2555.00 2570.00 2500.00 MHz No. Frequency Reading Correction Result Limit Margin Remark factor(dB/m) (MHz) (dBuV) (dBuV/m) (dBuV/m) (dB) 1 2459.450 112.24 -13.78 98.46 74.00 24.46 peak 2 74.00 2483.500 63.59 -13.7149.88 -24.12 peak 3 2485.250 62.18 -13.70 48.48 74.00 -25.52 peak 4 2500.000 60.07 -13.64 46.43 74.00 -27.57 peak

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



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



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		(MHz)	(dBuV)		factor(d			BuV/m)		(dBuV/			IB)							
	2	2388.540	60.73		-14.			6.72		54.0	)	-7	.28				A۱	/G		
	2	2390.000	64.17	+	-14.	01	5	0.16		54.0	)	-3	3.84				A١	/G		
		2415.000	108.93	+	-13.	22	0	5.00	+	54.0	、 、	4.4	1.00	+			A1	/G		

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



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D.	23 F	310.0002324 requency (MHz)	1.00 233 Reading (dBuV)	8.00 23 9 Corre factor( -14	52.00	2356.00 Resul (dBuV/	238 t m) (	10.00 239 Limit (dBuV/m)	11.00 210 Margin (dB)		22.00	2150 Remark	

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



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1	20.0 dBu∀/m							
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	2150.000 2165	5.00 2480.0	0 2495.00	2510.00 2	525.00 254	0.00 2555	.00 2570.00	2600.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	I	Remark
1	2465.150	118.84	-13.76	105.08	74.00	31.08		peak
2	2483.500	86.30	-13.71	72.59	74.00	-1.41		peak
3	2485.100	82.06	-13.70	68.36	74.00	-5.64		peak
4	2500.000	60.38	-13.64	46.74	74.00	-27.26		peak

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



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	2465.000	109.59	-13.76	95.83	54.00	41.83		AVG
2	2483.500	64.18	-13.71	50.47	54.00	-3.53		AVG
}	2485.250	61.13	-13.70	47.43	54.00	-6.57		AVG
1	2500.000	49.80	-13.64	36.16	54.00	-17.84		AVG

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



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No.	F	requer (MHz	ncy )	Reading (dBuV)	Corrector(c			esult BuV/m)	Limit (dBuV/m	Margi ) (dB)	n		Rema	ark	
1	1	2459.0		112.15	-13.			8.36	74.00	24.3	6		pea	k	
2	1	2483.5	00	66.18	-13.	71	5	2.47	74.00	-21.5	3		pea	k	
3	1	2484.5	00	65.59	-13.	70	5	1.89	74.00	-22.1	1		pea	k	
4	1	2500.0	00	59.50	-13.	64	4	5.86	74.00	-28.1	4		pea	k	

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



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	<b>0</b> .0 2:			2338.0 ding		2.00 ction	2350 R			Limit	2394	1.00 Ma		8.00	212	2.00	Rem		50.00	MHz
	0.0 2? F	310.000 2324	1.00 a	2338.1 ding JV)	10 235	2.00 ction dB/m)	2360 R (dB	5.00 esult		Limit	2394 n)	1.00 Ma (d	240 rgin	8.00	212	2.00	Rem	ark	50.00	MHz
0.	0.0 22 F	in 10.000 2324 requency (MHz)	1.00 a	2338.1 ding JV) 57	0 235 Correct factor((	i2.00 ction dB/m) 02	2350 R (dB	5.00 esult uV/m)		Limit dBuV/n	2394 n)	1.00 Ma (d -9	210 rgin B)	8.00	242	2.00		ark ak	50.00	MH2

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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1	l20.0 dBu∀/m							
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0.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
	2388.540	62.33	-14.01	48.32	54.00	-5.68		AVG
	2390.000	62.68	-14.01	48.67	54.00	-5.33		AVG
	2414.720	103.64	-13.93	89.71	54.00	35.71		AVG

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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	0.0 23	310.0002324	1.00 233	8.00	0 235	2.00	236	6.00	23	 80.00	239	1.00	240	B.00	242	2.00		21	50.00	MHz
0.	F	requency (MHz)	Reading (dBuV)		Correc factor(d			lesult BuV/m	)	Lir (dBu			argin IB)				Ren	nark		
		2385.880	63.00		-14.			8.98		74.			5.02				-	ak		
		2390.000	61.05		-14.			7.04		74.			6.96				ре	ak		
		2429.000	106.35		-13.	89	9	2.46		74.	00	18	3.46				pe	ak		

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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	0.0	.00 2464.0	10 2481.00	2198.00 2	515.00 253	2.00 2549	.00 2566.00	2500.00 MHz
0.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
	2444.790	110.68	-13.83	96.85	74.00	22.85	p	eak
	2483.500	69.68	-13.71	55.97	74.00	-18.03		eak
	2487.970	72.17	-13.69	58.48	74.00	-15.52	p	eak
	2500.000	59.99	-13.64	46.35	74.00	-27.65	p	eak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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0.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
	2460.430	104.31	-13.78	90.53	54.00	36.53	A	VG
	2483.500	66.13	-13.71	52.42	54.00	-1.58	A	VG
	2485.590	64.75	-13.70	51.05	54.00	-2.95	A	VG
	2500.000	53.73	-13.64	40.09	54.00	-13.91	A	VG

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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lo.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R	emark
	2	2445.300	106.93	-13.83	93.10	74.00	19.10		peak
	2	2483.500	62.21	-13.71	48.50	74.00	-25.50		peak
	2	2487.800	63.85	-13.69	50.16	74.00	-23.84		peak
	2	2500.000	59.45	-13.64	45.81	74.00	-28.19		peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; 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:	56.1 % 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.



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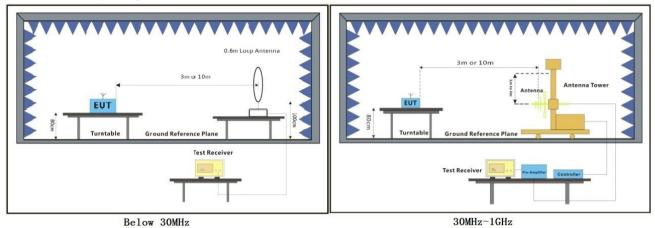
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#### 7.8.3 Test Setup Diagram





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#### 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.

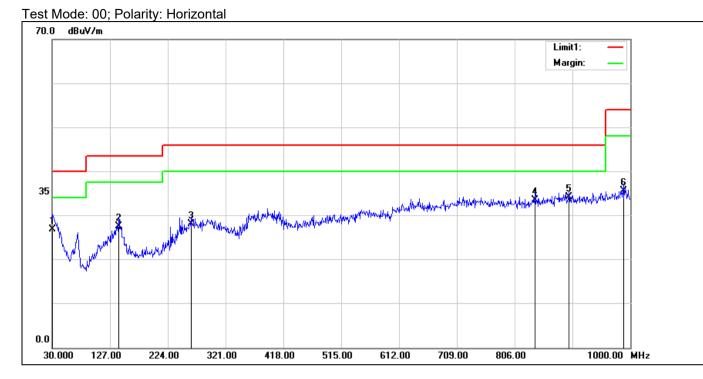


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	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.9700	1.73	25.12	26.85	40.00	-13.15	100	57	QP
2	141.5500	9.24	18.38	27.62	43.50	-15.88	100	241	QP
3	263.7700	7.00	21.02	28.02	46.00	-17.98	100	55	QP
4	839.9500	4.88	28.57	33.45	46.00	-12.55	100	345	QP
5	897.1800	4.53	29.62	34.15	46.00	-11.85	100	161	QP
6	989.3300	5.53	30.08	35.61	54.00	-18.39	100	135	QP



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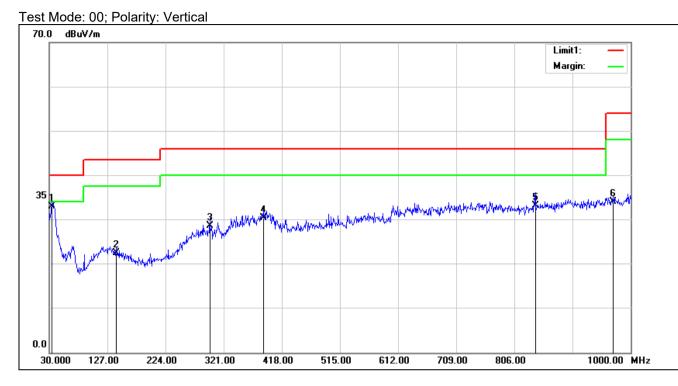
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	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	34.8500	8.39	24.67	33.06	40.00	-6.94	100	79	QP
2	141.5500	4.14	18.38	22.52	43.50	-20.98	100	229	QP
3	297.7200	7.94	20.68	28.62	46.00	-17.38	100	322	QP
4	386.9600	7.68	22.74	30.42	46.00	-15.58	100	325	QP
5	840.9200	4.55	28.59	33.14	46.00	-12.86	100	243	QP
6	970.9000	4.33	29.75	34.08	54.00	-19.92	100	129	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		

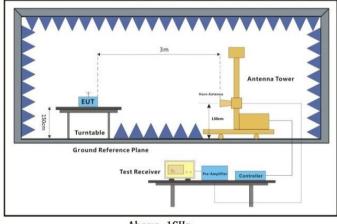
### 7.9.1 E.U.T. Operation

Operating Enviro	onment:			
Temperature:	25.3 °C	Humidity:	56.0 % RH	Atmospheric Pressure: 1010 mbar

### 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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). 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

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No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
1	4824.000	57.52	-8.78	48.74	74.00	-25.26		peak	
2	7236.000	55.03	-5.86	49.17	74.00	-24.83		peak	
3	9648.000	51.98	-1.31	50.67	74.00	-23.33		peak	



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T		
Test Mode: 00; Polari	/: Vertical; Modulation:802.11b; Bandwidth:20MHz; C	Channel:Low

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	Frequency	Reading	Correction	Result	Limit	Margin	F	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
	4824.000	56.82	-8.78	48.04	74.00	-25.96		peak
$\uparrow$	7236.000	55.70	-5.86	49.84	74.00	-24.16		peak
+	9648.000	51.65	-1.31	50.34	74.00	-23.66	peak	



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	Frequency	Reading	Correction	Result	Limit	Margin	Re	emark
$\downarrow$	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
$\downarrow$	4874.000	57.13	-8.61	48.52	74.00	-25.48		eak
$\downarrow$	7311.000	54.86	-5.78	49.08	74.00	-24.92		eak
	9748.000	52.22	-1.43	50.79	74.00	-23.21	p p	eak



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

1	00.0 dBu∀/m							
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	1000.0002700	.00 1100.0	0 6100.00	7800.00 9	500.00   2	00.00 1290	0.00  1600.00	18000.00MHz
No.	Frequency	Reading	Correction	Result	Limit	Margin	F	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.000	57.18	-8.61	48.57	74.00	-25.43		peak
2	7311.000	55.02	-5.78	49.24	74.00	-24.76		peak
3	9748.000	51.55	-1.43	50.12	74.00	-23.88		peak



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

1	00. <u>0 d⊟u∀/m</u> _							
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	1000.0002700	.00 1100.0	0 6100.00	7800.00 9	500.00   2	00.00 1290	0.00  1600.00	18000.00MHz
	Frequency	Reading	Correction	Result	Limit	Margin	F	lemark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
	4924.000	56.93	-8.44	48.49	74.00	-25.51		peak
╡	7311.000	54.86	-5.78	49.08	74.00	-24.92		peak
+	9748.000	51.87	-1.43	50.44	74.00	-23.56		peak



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

1	00. <u>0</u> _dBu∀/m_							
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	1000.0002700	.00 4400.0	0 6100.00	7800.00 9	500.00   2	00.00 1290	0.00  1600.00	18000.00MHz
<b>)</b> .	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
	4924.000	57.25	-8.44	48.81	74.00	-25.19		peak
	7386.000	54.75	-5.69	49.06	74.00	-24.94		peak
+	9848.000	51.59	-1.27	50.32	74.00	-23.68		peak



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

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No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	4824.000	56.92	-8.78	48.14	74.00	-25.86		peak
2	7236.000	55.07	-5.86	49.21	74.00	-24.79		peak
3	9648.000	52.27	-1.31	50.96	74.00	-23.04		peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwic	th:20MHz; Channel:Low
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								+
	0.0							
	1000.000 2700	.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	Re	emark
4	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)		
1 2	4824.000 7236.000	57.24 54.89	-8.78 -5.86	48.46 49.03	74.00 74.00	-25.54 -24.97		oeak oeak
2	9648.000	51.33	-5.00	50.02	74.00	-24.37		beak



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	Test Mode	e: 00; Polar	ity: Horizont	al; Modulati	on:802.11g	; Bandwid	th:20MHz; Cha	annel:middle
1	00.0 dBu∀/m							
								Limitl: — Limit2: —
					-			
					_			
				2	3			
	50		× I	*	-  <b>ř</b>			
	0.0	.00 1100.0	0 6100.00	7800.00 9	 500.00   2	00.00 1290	0.00  1600.00	18000.00MHz
	1000.0002700	.00 1100.0	0 0100.00	1000.00 3	500.00 112	00.00 1230		10000.000012
No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
1	(MHz) 4874.000	(dBuV) 57.52	factor(dB/m) -8.61	(dBuV/m) 48.91	(dBuV/m) 74.00	(dB) -25.09		peak
2	7311.000	54.87	-5.78	49.09	74.00	-25.03		peak
3	9748.000	51.71	-1.43	50.28	74.00	-23.72		peak
<u> </u>							1	F



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

1	00.0 dBu∀/m								
								Limitl: —	
					_			Limit2: —	
	50		1	-2	3				
			Î I						
	0.0								
	1000.0002700	.00 <u>4400.0</u>	0 6100.00	7800.00 9	<u> </u> 500.00  12	<u>   </u> 00.00  290	0.00  1600.00	I I 8000.00MH;	1-
	100.0002700	.00 1100.0	0 5100.00	1000.00 3	500.00 112	00.00 1230		18000.0001	12
0.	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
	4874.000	56.79	-8.61	48.18	74.00	-25.82		peak	
	7311.000	54.82	-5.78	49.04	74.00	-24.96		peak	
	9748.000	52.24	-1.43	50.81	74.00	-23.19		peak	



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

1	00.0 dBu∀/m_							
								Limitl: —
								Limit2: —
	50		1	8	12			
	50		*	*	1			
I	0.0							
	1000.0002700	.00 4400.0	0 6100.00	7800.00 9	500.00   2	00.00 1290	0.00 14600.00	18000.00MHz
	Frequency	Reading	Correction	Result	Limit	Margin		Remark
-	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		Neman
+	4924.000	56.98	-8.44	48.54	74.00	-25.46		peak
+	7386.000	55.30	-5.69	49.61	74.00	-24.39		peak
+								
	9848.000	52.09	-1.27	50.82	74.00	-23.18		peak



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

1	00. <u>0</u> _dBu∀/m_							
								Limitl: —
								Limit2: —
					_			
	50		1 <u>+</u>	-2	*			
			1 I					
I	0.0							
	1000.0002700	.00 4400.0	0 6100.00	7800.00 9	500.00   2	00.00  290	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	56.73	-8.44	48.29	74.00	-25.71		peak
	7386.000	55.43	-5.69	49.74	74.00	-24.26		peak
+	9848.000	51.98	-1.27	50.71	74.00	-23.29		peak



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

1	100.0 d⊟u∀/m								
								Limit1: — Limit2: —	
					_				
	50	· ·	1	2	3				
	50		K	X	1				
	0.0								
	1000.0002700	.00 1100.0	0 6100.00	7800.00 9	500.00   2	00.00 1290	0.00  1600.00	18000.00MHz	2
No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
1	4824.000	57.72	-8.78	48.94	74.00	-25.06		peak	
2	7236.000	55.00	-5.86	49.14	74.00	-24.86		peak	
3	9648.000	51.94	-1.31	50.63	74.00	-23.37		peak	



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

1	00. <u>0 dBu∀/m</u> _								
								Limitl: —	
								Limit2: —	
					_				
	50		1	2	\$				
		-	Ť I	Î I					
	0.0								
	1000.0002700	.00 1100.0	10 6100.00	<b>7800.00</b> 9	500.00 112	00.00 1290	0.00  1600.00	18000.00MHz	
	Frequency	Reading	Correction	Result	Limit	Margin	F	Remark	
	(MHz)	(MHz) (dBuV) factor(dB/m		(dBuV/m)	(dB)				
Τ	4824.000	57.20	-8.78	48.42	74.00	-25.58	peak		
1	7236.000	55.23	-5.86	49.37	74.00	-24.63		peak	
+	9648.000	52.27	-1.31	50.96	74.00	-23.04	peak		



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

1	00. <u>0 dBu∀/m</u>								
								Limitl: —	
								Limit2: —	
						-			
			1	2	3				
	50		¥ – –	*	- <del>  Y</del>				
	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)			
	4874.000	58.59	-8.61	49.98	74.00	-24.02	peak		
$\uparrow$	7311.000	55.76	-5.78	49.98	74.00	-24.02	peak		
+	9748.000	52.10	-1.43	50.67	74.00	-23.33	peak		



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

1	00. <u>0</u> _dBu∀/m_								
								Limitl: —	
								Limit2: —	
	50			2	3				
	0.0								
	1000.0002700	.00 4400.0	0 6100.00	7800.00 9	500.00   2	00.00 1290	0.00  4600.00	18000.00MHz	
0.	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
	4874.000	57.28	-8.61	48.67	74.00	-25.33	peak		
	7311.000	55.32	-5.78	49.54	74.00	-24.46	peak		
-	9748.000	51.49	-1.43	50.06	74.00	-23.94		peak	



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

1	00.0 d⊟u∀/m_								
								Limitl: —	
								Limit2: —	
	50		1	8	3				
			Ϋ́	$\uparrow$					
	0.0								
	1000.0002700	.00 1100.0	0 6100.00	7800.00 9	500.00  12	00.00 1290	0.00  1600.00	1 8000.00M	Hz
	-	D	0	Dente	1.1		1	D I	
).	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
+	4924.000	56.63	-8.44	48.19	74.00	-25.81		peak	
+									
$ \rightarrow$	7386.000	54.99	-5.69	49.30	74.00	-24.70		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	00.0 dBu∀/m_								
								Limitl: —	
								Limit2: —	
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	30		Ť I	ΤΙ					
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			<u> </u>						
	0.0								
	1000.0002700	.00 1100.0	0 6100.00	7800.00 9	500.00 112	00.00 1290	0.00 14600.00	IB000.00MH;	
_									
).	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
$ \rightarrow$	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
	4924.000	57.31	-8.44	48.87	74.00	-25.13	peak		
	7386.000	55.62	-5.69	49.93	74.00	-24.07	peak		
$\neg$	9848.000	51.39	-1.27	50.12	74.00	-23.88	peak		



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

1	100.0 d⊟u∀/m								
								Limit1: — Limit2: —	
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	1000.0002700	.00 1100.0	0 6100.00	7800.00 9	500.00 112	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	4844.000	57.38	-8.71	48.67	74.00	-25.33		peak	
2	7266.000	54.97	-5.83	49.14	74.00	-24.86		peak	
3	9688.000	51.70	-1.36	50.34	74.00	-23.66		peak	



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Report No.: KSCR220500067301 Page: 76 of 81

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

1	00.0 d⊟u∀/m								
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I	0.0								
	1000.0002700	0.00 4400.0	0 6100.00	7800.00 9	500.00  12	00.00 1290	0.00 14600.00	18000.00MH;	
	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			
	4844.000	57.69	-8.71	48.98	74.00	-25.02		peak	
1	7266.000	55.41	-5.83	49.58	74.00	-24.42	peak		
+	9688.000	52.35	-1.36	50.99	74.00	-23.01		peak	



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	10	100.0002700	.00 440	10.0	0 610	0.00	780	0.00	950	10.	00  12	00.00	1290	0.00	146	00.00		18	000.00	MHz
No.	F	requency (MHz)	Readin (dBuV		Correct factor(d			lesult BuV/m)			Limit BuV/m)		rgin IB)				Rem	nark		
1	4874.000 57.55		-8.6			8.94			74.00		5.06				pea	ak				
2	1	7311.000	55.64		-5.7	8	4	9.86			74.00	-24	4.14		peak					
3	9	9748.000	52.40		-1.4	3	5	50.97			74.00	-23	3.03				pea	ak		

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle

1	00.0 dBu∀/m							
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	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	57.60	-8.61	48.99	74.00	-25.01		peak
2	7311.000	54.85	-5.78	49.07	74.00	-24.93		peak
3	9748.000	51.70	-1.43	50.27	74.00	-23.73		peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

10	00. <u>0</u> _dBu∀/m_								
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	1800.0002180		0 0100.00	1000.00 3	310.00	00.00 12.00	0.00 11000.00	100000000000	
).	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
T	4904.000	56.61	-8.51	48.10	74.00	-25.90	peak		
$\uparrow$	7356.000	55.47	-5.73	49.74	74.00	-24.26	peak		
+	9808.000	51.74	-1.47	50.27	74.00	-23.73	peak		



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

1	00.0 d⊟u∀/m							
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	1000.0002700	.00 4400.0	0 6100.00	7800.00 9	500.00  12	00.00 1290	0.00  1600.00	18000.00MHz
lo.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
	4904.000	56.95	-8.51	48.44	74.00	-25.56	peak	
	7356.000	55.39	-5.73	49.66	74.00	-24.34	peak	
	9808.000	52.02	-1.47	50.55	74.00	-23.45	peak	



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# 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2205000673AT

# 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2205000673AT

- End of the Report -



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