

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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# **TEST REPORT**

Application No.:	SHEM2104002949CR
FCC ID:	2AVYF-IPC-AX2E-B
Applicant:	Hangzhou Huacheng Network Technology Co.,Ltd.
Address of Applicant:	No.2930, Nanhuan Road, Binjiang District, Hangzhou, China
Manufacturer:	Hangzhou Huacheng Network Technology Co.,Ltd.
Address of Manufacturer:	No.2930, Nanhuan Road, Binjiang District, Hangzhou, China
Equipment Under Test (EU	Т):
EUT Name:	CONSUMER CAMERA
Model No.:	IPC-A22EP-B-imou;IPC-A22EP-B;IPC-A22EN-B-imou;IPC-A22EN-B;IPC- A22E-B-LC;IPC-TA22E-B-LC¤
¤	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:	2021-04-09
Date of Test:	2021-04-19 to 2021-04-27
Date of Issue:	2021-04-28
Test Result:	Pass*

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

parlan share

Parlam Zhan E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record			
Version Description		Date	Remark
00	Original	2021-04-28	/

Authorized for issue by:		
	pichal Nic	
	Micheal Niu / Project Engineer	
	Parlam zhan	
	Parlam Zhan / Reviewer	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	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 Matte	Radio Spectrum Matter Part				
ltem	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	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, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions	47 CFR Part 15, 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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass	
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass	

#### **Declaration of EUT Family Grouping:**

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model IPC-A22EP-B was tested since their differences were the model number and appearance.



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## 4 General Information

## 4.1 Details of E.U.T.

	DC EV//1 A by adapter
Power supply:	DC 5V/1A by adapter
	Adapter:
	Model: NBS05B050100VUU
	Input: AC 100-240V~, 50/60Hz,0.2A
	Output: DC 5.0V 1A
Test voltage:	AC 120V/60Hz
Antenna Gain:	2.38dBi (Provided by the manufacturer)
Antenna Type:	Integral antenna
Channel Spacing:	5MHz
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
Data Rate:	802.11b: 1/2/5.5/11Mbps,
	802.11g: 6/9/12/18/24/36/48/54Mbps
	802.11n: MCS 0 to 7 for HT20MHz MCS 0 to 7 for HT40MHz
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
	802.11n(HT40): 2422MHz to 2452MHz

## 4.2 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
	Ant 1	Ant 1	Ant 1
1	Default	Default	Default
6	Default	Default	Default
11	Default	Default	Default
Channel	802.11n(HT40)		
	Ant 1		
3	Default		
6	Default		
9	Default		

## 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/
SecureCRT	VanDyke	V 6.2.0	/
Serial port adapter plate	1	Test Plate 3	/





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## 4.4 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	PE Redicted Power	5.2dB (Below 1GHz)
0	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Redicted Spurious 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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### 4.5 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.

### 4.6 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 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-1600, C-1707, T-1499, G-10216 respectively.

## 4.7 Deviation from Standards

#### None

## 4.8 Abnormalities from Standard Conditions

None



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## 5 Equipment List

ltem	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Con	ducted Emission at Mains Terminals (150	kHz-30MHz)				
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/19/2020	10/18/2021
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/19/2020	10/18/2021
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	/	14	10/17/2020	10/16/2021
6	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF	Conducted Test		•			
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	12/02/2020	12/01/2021
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	09/25/2020	09/24/2021
5	Radio Communication Test Station	Anritsu	MT8000A	6262012849	N/A	N/A
6	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	N/A	N/A
7	Universal Radio Communication Tester	R&S	CMW500	159275	10/19/2020	10/18/2021
8	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
9	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
10	Switcher	CCSRF	FY562	KUS2001M001 -3	10/19/2020	10/18/2021
11	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
13	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
14	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
15	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
16	Conducted test cable		RF01-RF04	<i>c</i>	04/15/2021	04/14/2022
17	Software	TST	TST-PASS	, N/A	N/A	N/A
18	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
19	Thermometer	Anymetre	TH603	CCS007	10/16/2020	10/15/2021
	adiated Test	7 mymou c	11000	000007	10/10/2020	10/10/2021
1	Spectrum Analyzer	R&S	FSV40	101493	10/19/2020	10/18/2021
2	Signal Generator	Agilent	E8257C	MY43321570	10/19/2020	10/18/2021
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/22/2019	06/21/2021
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2023
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/22/2021	02/21/2023
9	Horn-antenna(40-60GHz)	REBES	SAZ-2410-19-S1	06299-01	N/A	N/A
10	Horn-antenna(50-75GHz)	REBES	SAZ-2410-15-S1	01731-01	N/A	N/A
11	Horn-antenna(75-110GHz)	REBES	SAZ-2410-10-S1	01773-09	N/A	N/A
12	Horn-antenna(110-170GHz)	REBES	SAZ-2410-06-S1	01776-05	N/A	N/A
13	Horn-antenna(140-220GHz)	REBES	SAZ-2410-05-S1	01759-04	N/A	N/A
14	Horn-antenna(220-325GHz)	REBES	SAR-2309-03-S2	06300-01	N/A	N/A
15	Extended waveguide(40-60GHz)	REBES	SWG-19025-FB	06303-01	N/A	N/A
	Enternada maregulac(+0-000112)	ILDE0	5770-13025-1 D	00000-01	1 N/A	11/17



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17	Extended waveguide(75-110GHz)	REBES	SWG-10025-FB	01509-01	N/A	N/A
18	Extended waveguide(110-170GHz)	REBES	SWG-06025-FB	06302-01	N/A	N/A
19	Extended waveguide(140-220GHz)	REBES	SWG-05025-FB	06304-01	N/A	N/A
20	Extended waveguide(220-325GHz)	REBES	SWG-03025-FB	06301-01	N/A	N/A
21	Harmonic mixer(110-170GHz)	REBES	STH-06SF-S1	06110-01	N/A	N/A
22	Harmonic mixer(40-60GHz)	REBES	STH-19SF-S1	06937-01	N/A	N/A
23	Waveguide Harmonic Mixer(50-75GHz)	KEYSIGHT	M1970V	MY51390966	N/A	N/A
24	Vaveguide Harmonic Mixer(50-75GHz) cable	Silverline	LU18-SMSM-01.00	99612	N/A	N/A
25	Waveguide Harmonic Mixer(75-110GHz)	KEYSIGHT	M1970W	MY51430883	N/A	N/A
26	Vaveguide Harmonic Mixer(75-110GHz) cable	Silverline	LU18-SMSM-01.00	94202	N/A	N/A
27	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
28	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/23/2020	10/22/2021
29	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
30	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
31	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
32	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
33	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
34	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
35	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
36	Filter (1745 MHz $\sim$ 1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
37	Filter (1922 MHz $\sim$ 1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
38	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
39	Filter (1532 MHz $\sim$ 1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
40	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
41	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
42	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R



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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 Integral antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.38dBi.

Antenna location: Refer to Appendix(Internal Photos)



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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:	

	Conducted limit(dBµV)				
Frequency of 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 the frequency.					



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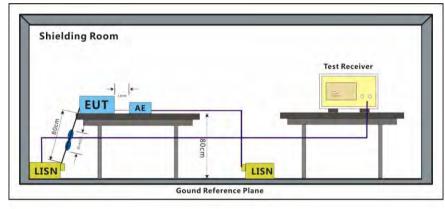


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#### 7.1.1 E.U.T. Operation

Operating Enviror	nment:						
Temperature:	23 °C	Humidity:	45	% RH	Atmospheric Pressure: 10	)01	mbar
Test mode	types. All data data rate @ 1 worst case of	a rates for eac Mbps is the w IEEE 802.11( )); data rate (	ch mo /orst o g; dat ⊉ 13.∜	dulation ty case of IEI a rate @ 6 5Mbps is t	transmitting mode with all mode ype have been tested and foun EE 802.11b; data rate @ 6Mbp 5.5Mbps is the worst case of IE the worst case of IEEE 802.110 the report.	nd the ps is EEE	e the

#### 7.1.2 Test Setup Diagram



#### 7.1.3 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 + 5ohm 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: LISN=Read Level+ Cable Loss+ LISN Factor

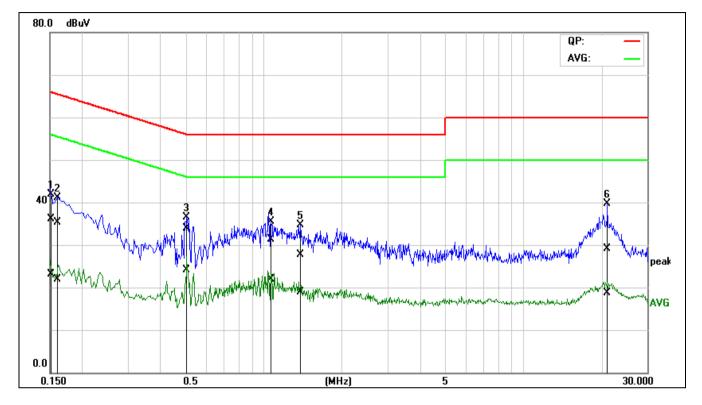


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Mode:a; Line:Live Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1529	16.63	3.68	19.46	36.09	23.14	65.84	55.84	-29.75	-32.70	Pass
2	0.1577	15.85	2.50	19.46	35.31	21.96	65.58	55.58	-30.27	-33.62	Pass
3*	0.5028	14.35	4.52	19.53	33.88	24.05	56.00	46.00	-22.12	-21.95	Pass
4	1.0676	11.76	2.35	19.55	31.31	21.90	56.00	46.00	-24.69	-24.10	Pass
5	1.3722	8.23	-0.73	19.57	27.80	18.84	56.00	46.00	-28.20	-27.16	Pass
6	21.0929	8.74	-1.55	20.27	29.01	18.72	60.00	50.00	-30.99	-31.28	Pass



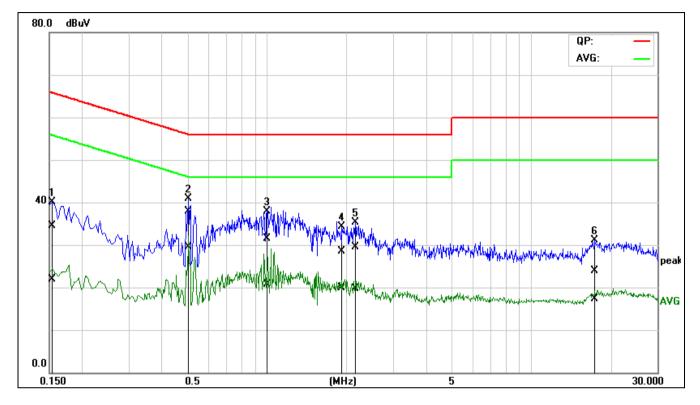
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Mode:a; Line:Neutral Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1555	15.04	2.48	19.42	34.46	21.90	65.70	55.70	-31.24	-33.80	Pass
2*	0.5014	18.34	10.01	19.51	37.85	29.52	56.00	46.00	-18.15	-16.48	Pass
3	0.9857	12.04	1.27	19.53	31.57	20.80	56.00	46.00	-24.43	-25.20	Pass
4	1.9006	8.88	0.43	19.57	28.45	20.00	56.00	46.00	-27.55	-26.00	Pass
5	2.1625	9.97	0.08	19.58	29.55	19.66	56.00	46.00	-26.45	-26.34	Pass
6	17.3797	3.79	-2.84	20.18	23.97	17.34	60.00	50.00	-36.03	-32.66	Pass



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### 7.2 Minimum 6dB Bandwidth

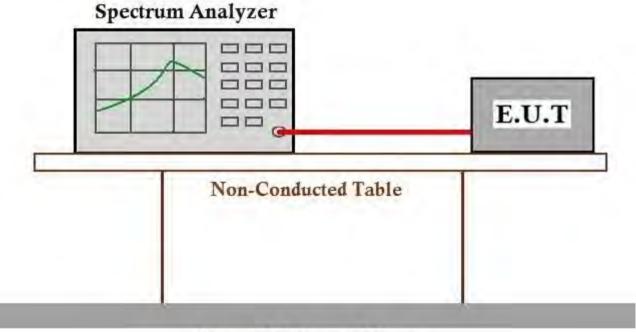
Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

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

**Operating Environment:** 

Temperature:25 °CHumidity:49 % RHAtmospheric Pressure:1006 mbarTest modea:TX mode\_Keep the EUT in continuously transmitting mode with all modulation<br/>types. All data rates for each modulation type have been tested and found the<br/>data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the<br/>worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE<br/>802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).<br/>Only the data of worst case is recorded in the report.

#### 7.2.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210400294901



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### 7.3 Conducted Peak Output Power

Test Requirement47 CFR Part 15, Subpart C 15.247(b)(3)Test Method:ANSI C63.10 (2013) Section 11.9.1Limit: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 modulati		



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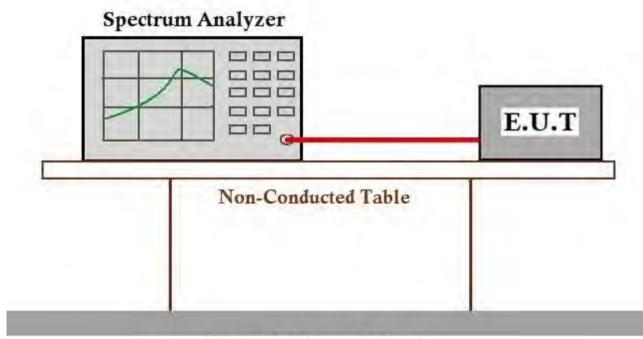


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#### 7.3.1 E.U.T. Operation

Operating Enviro	onment:				
Temperature:	25 °C Hu	midity: 49	% RH	Atmospheric Pressure:	1007 mbar
Test mode	types. All data rates data rate @ 1Mbps worst case of IEEE	for each mo is the worst 802.11g; dat a rate @ 13.	odulation ty case of IEI ta rate @ 6 5Mbps is t	transmitting mode with all upe have been tested and for EE 802.11b; data rate @ 60 5.5Mbps is the worst case of he worst case of IEEE 802 the report.	ound the Mbps is the of IEEE

#### 7.3.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210400294901



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### 7.4 Power Spectrum Density

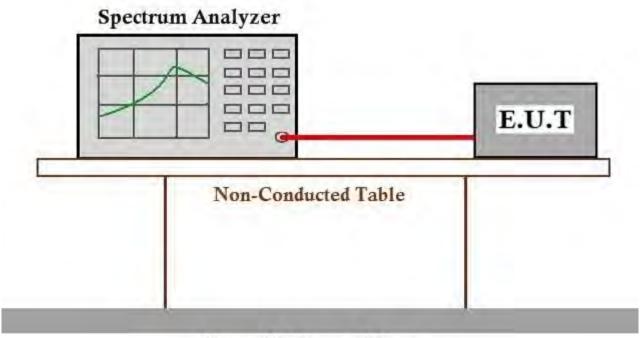
7 CFR Part 15, Subpart C 15.247(e)
ANSI C63.10 (2013) Section 11.10.2
≤8dBm in any 3 kHz band during any time interval of continuous ransmission

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

Operating Environment:

Temperature:25 °CHumidity:49 % RHAtmospheric Pressure:1007 mbarTest modea:TX mode\_Keep the EUT in continuously transmitting mode with all modulation<br/>types. All data rates for each modulation type have been tested and found the<br/>data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the<br/>worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE<br/>802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).<br/>Only the data of worst case is recorded in the report.

#### 7.4.2 Test Setup Diagram



**Ground Reference Plane** 

#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210400294901



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### 7.5 Conducted Band Edges Measurement

47 CFR Part 15, Subpart C 15.247(d) **Test Requirement** 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)



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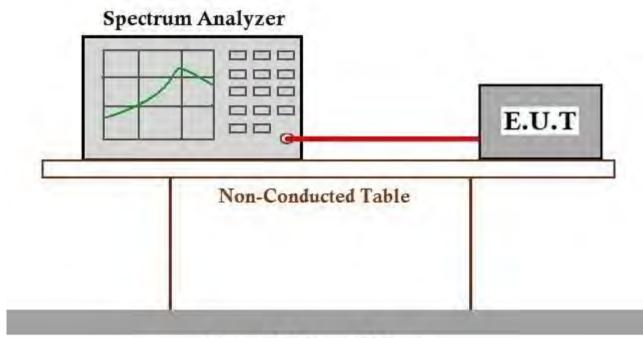


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#### 7.5.1 E.U.T. Operation

Operating Enviro	onment:				
Temperature:	25 °C	Humidity:	49	% RH	Atmospheric Pressure: 1007 mbar
Test mode	types. All dat data rate @ ′ worst case of 802.11n(HT2	a rates for eac IMbps is the w IEEE 802.11c	h mo vorst v g; dat Ø 13.	odulation ty case of IE a rate @ 6 5Mbps is t	transmitting mode with all modulation ype have been tested and found the EE 802.11b; data rate @ 6Mbps is the 6.5Mbps is the worst case of IEEE the worst case of IEEE 802.11n(HT40). the report.

#### 7.5.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210400294901



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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)



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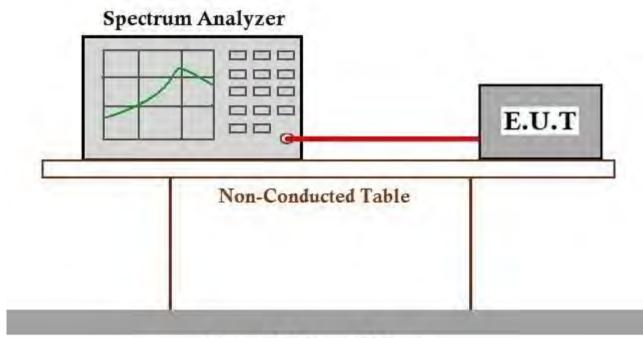


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#### 7.6.1 E.U.T. Operation

Operating Enviro	onment:		
Temperature:	25 °C Humidity	/: 49 % RH	Atmospheric Pressure: 1007 mbar
Test mode	types. All data rates for e data rate @ 1Mbps is the worst case of IEEE 802.1	each modulation t e worst case of IE 11g; data rate @ e @ 13.5Mbps is	y transmitting mode with all modulation type have been tested and found the EEE 802.11b; data rate @ 6Mbps is the 6.5Mbps is the worst case of IEEE the worst case of IEEE 802.11n(HT40). In the report.

#### 7.6.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210400294901



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## 7.7 Radiated Emissions which fall in the restricted bands

 Test Requirement
 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

 Test Method:
 ANSI C63.10 (2013) Section 6.10.5

 Limit:
 Ansi C63.10 (2013) Section 6.10.5

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.



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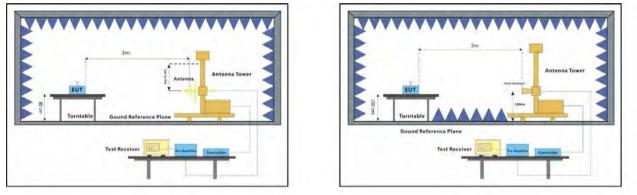


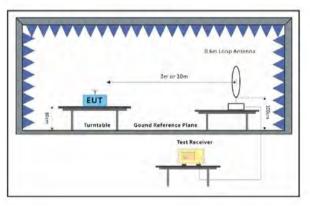
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#### 7.7.1 E.U.T. Operation

Operating Enviro	nment:	
Temperature:	25 °C Humidity: 49 % RH Atmospheric Pressure: 1007 r	nbar
Test mode	a: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(HT4 Only the data of worst case is recorded in the report.	he

#### 7.7.2 Test Setup Diagram







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#### 7.7.3 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.



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Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



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1		(MHz) 2382.800	(dBuV) 62.09	_	r(dB/m) 3.47		BuV/m) 8.62	(		<u>uV/m)</u> 4.00	<u> </u>	D) 5.38		De	ak	
2		2390.000	62.38		3.46		8.92			4.00		5.08			ak	
3	1	2407.300	104.33		3.40	1	00.93		74	4.00	26	.93			ak	

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



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		110.0002324	1.00 2338	3.00 235	2.00	235	6.00	238	0.00	239	1.00	240	B.00	242	2.00		2150.00	MHz
No.	F	requency (MHz)	Reading (dBuV)	Corrector(c			esult BuV/m)	(	Lir dBu	nit V/m)	Ma (d	rgin B)			Re	marl	k	
1	2	2385.460	43.74	-3.4			0.27	Τ,	54.		<u> </u>	.73	$\top$		A	VG		
2	2	2390.000	47.64	-3.4	16	4	4.18		54.	00	-9	.82			A	VG		
3	2	2405.200	94.34	-3.4	12	9	0.92		54.	00	36	.92			Α	VG		

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



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	0.0	10.0002324	1.00 2338	0.0 225	2.00	225	6.00 i	220	0.00	220	1.00 2·		.00 242	2.00	2150.00 MF	
	23	110.0002321	1.00 2330	233	2.00	230	0.00	230	0.00	235	1.00 21	100	.00 242	2.00	2150.00 MF	12
No.	F	requency	Reading				esult		Lin		Margi	n		Rema	ark	
4		(MHz)	(dBuV)	factor(d			BuV/m)	(	dBu\	-	(dB)	-			L.	
1		2386.580	62.99	-3.4			9.53		74.		-14.4			pea		
2	1	2390.000	60.63	-3.4	6	5	7.17		74.	00	-16.8	3		pea	k	
3	1	2407.440	104.76	-3.4	0	10	01.36		74.	00	27.30	6		pea	k	

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



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No.	F	requency (MHz)	Reading (dBuV)		rection or(dB/m)		lesult BuV/m)	(	Lim dBuV		Mar (dl	gin 3)				Rema	ark		
1	1	2387.420	43.83		3.46		0.37	$\top$	54.0			.63				AV	3		
2	1	2390.000	46.63	-	3.46	4	3.17		54.0	)0	-10	.83 AVG							
3	1	2419.200	94.08	-	3.36	9	0.72		54.0	)0	36	72	72 AVG			AV			

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



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1	20.0 60			*							Limi		
	0.0	D.0002469	5.00 2480	0.00 249	5.00	2510.00	) 25	25.00 251	0.00 2555	5.00 257	0.00	2500.00 MH	
No.		quency MHz)	Reading (dBuV)	Corre factor(c		Resu (dBuV		Limit (dBuV/m)	Margin (dB)		Remark		
1		57.350	104.23	-3.2		100.9		74.00	26.99		peak		
2	24	83.500	63.31	-3.1	16	60.1	5	74.00	-13.85		peak		
3	24	86.000	63.11	-3.1	15	59.9	6	74.00	-14.04	peak			
4	25	00.000	52.97	-3.1	10	49.8	7	74.00	-24.13	peak			

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



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	0.0 24	150.0002	2465	i.00 2480	.00	2495	5.00	251	0.00 2	525	.00 254	0.00 255	5.00	257	0.00		2500.00	  MHz
No.	F	requenc (MHz)	:y	Reading (dBuV)		orrec tor(d	tion B/m)		lesult BuV/m)	(0	Limit IBuV/m)	Margin (dB)			R	lemai	rk	
1		2460.80	0	93.33		-3.2			0.10		54.00	36.10		AVG				
2	1	2483.50	0	46.34		-3.1	6	4	3.18		54.00	-10.82		AVG				
3		2488.25	0	44.66		-3.1	4	4	1.52		54.00	-12.48				AVG		
4	1	2500.00	0	41.23		-3.1	0	3	8.13		54.00	-15.87	AVG					

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



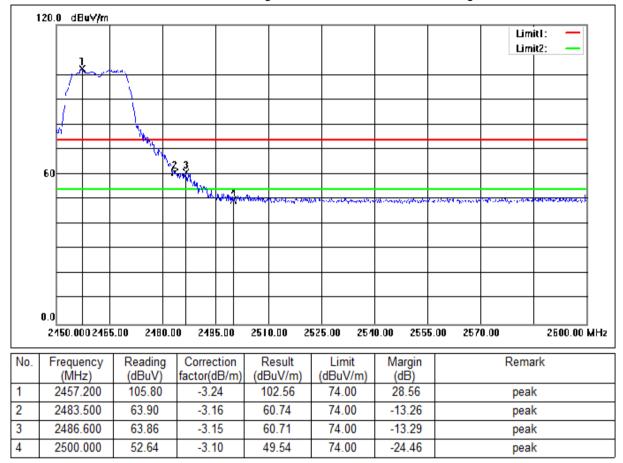
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lo.	Fi	equency (MHz)	Reading (dBuV)	Correct factor(d			esult uV/m)	Limit (dBuV/m)	Margin (dB)		F	Remark	
	2	465.150	95.28	-3.2			2.06	54.00	38.06			AVG	
	2	483.500	47.76	-3.1	6	44	4.60	54.00	-9.40			AVG	
	2	486.300	45.30	-3.1	5	42	2.15	54.00	-11.85			AVG	
	2	2500.000	41.24	-3.1	0	- 38	3.14	54.00	-15.86			AVG	

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	0.0 231	10.0002324	1.00 233	8.00	235	2.00	235	6.00	238	0.00	239	1.00	2108	.00	242	2.00	2150.00	MHz
No.		equency (MHz)	Readin (dBuV		Correc factor(d			lesult BuV/m	)	Limi dBuV/		Ma (d	rgin B)			Rema	ark	
1	2	388.540	58.89		-3.4	6	5	5.43		74.0	0	-18	3.57			peal	k	
2		390.000	62.14		-3.4	6		8.68		74.0			5.32			peal	k	
3	2	417.240	104.4	7	-3.3	8	1	01.09		74.0	0	27	.09			peal	k	

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	0.0	10.000 2324	1.00 233		225	2.00	225	6.00	220	0.00	239			08.00		2.00		2450	
0.		requency (MHz)	Reading (dBuV)	) C	235; orrec		R	esult BuV/m		0.00 Lim	it	Ma	rgin B)				Rema		.00 M
	2	2386.860	44.23	Idu	-3.4			0.77	+	54.0			).23	+			AV	3	
	2	2390.000	47.41		-3.4	6	4	3.95	+	54.(	)0	-10	.05				AV	G	
	2	405.620	93.24		-3.4	2	8	9.82		54.0	)0	35	.82				AV	G	

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



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	0.0 2310	). <b>000 232</b> 4	1.00 2	338.0	0 235	2.00	235	6.00	238	0.00	239	1.00	2408	.00	212	2.00		2150.0	D0 MHz
No.		quency MHz)	Read (dBu		Correct factor(d			esult BuV/m)		Lim (dBu\		Ma (d	rgin B)			R	lema	rk	
1		88.120	56.0	-	-3.4		,	3.40	$\top$	74.(		<u> </u>	).60				peak	:	
2	23	90.000	58.4	48	-3.4	6	5	5.02		74.(	)0	-18	3.98				peak		
3	24	19.340	103.	.01	-3.3	6	9	9.65		74.(	)0	25	.65				peak		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



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	0.0 23	10.000 2324	1.00 2338	8.00 23	52.00	235	6.00	238	0.00	239	1.00	2408	B.00	212	2.00		215	io. <b>00</b> I	<b>v</b> i Hz
No.	F	requency (MHz)	Reading (dBuV)	Corre			esult BuV/m)		Limit (dBuV/		Ma (d	rgin B)				Rema	ark		
1	2	2388.680	45.97	-3.			2.51		54.0			1.49				AVG	3		
2		2390.000	47.92	-3.			4.46		54.0			.54				AVG			
3	2	2418.360	93.32	-3.	38	8	9.94		54.0	0	35	.94				AVG	3		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



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	2150.000216	5.00 2480.0	00 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)	Rei	mark	
1	2466.200	102.58	-3.22	99.36	74.00	25.36	pe	eak	
2	2483.500	64.73	-3.16	61.57	74.00	-12.43	peak		
3	2485.400	65.69	-3.15	62.54	74.00	-11.46	peak		
4	2500.000	53.09	-3.10	49.99	74.00	-24.01	peak		

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



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1	20.	0 dBu∀/m							imit1: — imit2: —
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	0.0 2'	150.000 2465	5.00 2180.	0 2495.00	2510.00 2	525.00 254	0.00 2555.	00 2570.00	2500.00 MHz
No.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rer	nark
1	1	2467.250	92.32	-3.22	89.10	54.00	35.10	A	/G
2	1	2483.500	46.70	-3.16	43.54	54.00	-10.46	A	/G
3		2485.250	45.64	-3.15	42.49	54.00	-11.51		/G
4	1	2500.000	40.96	-3.10	37.86	54.00	-16.14	A	/G

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



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	2150.00021	<b>65.00 2480</b> .	00 2195.00	2510.00 2	525.00 254	0.00 2555	.00 2570.00	2500.00 MHz	
No.	Frequency		Correction	Result	Limit	Margin	Rer	mark	
1	(MHz) 2458.550	(dBuV) 105.75	factor(dB/m) -3.24	(dBuV/m) 102.51	(dBuV/m) 74.00	(dB) 28.51			
2	2456.550 2483.500	60.66	-3.24	57.50	74.00	-16.50		eak	
2	2463.500 2485.400	60.66	-3.16	57.50	74.00	-16.50		eak	
								eak	
4	2500.000	52.64	-3.10	49.54	74.00	-24.46	peak		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



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	0.0 21	50.000 2469	5.00 248	0.0	0 2495	5.00	251	0.00 2	525	.00 254	0.00 255	5.00	257	0.00	2500.00	MHz
No.	Fr	equency (MHz)	Reading (dBuV)		Correct factor(d			lesult BuV/m)	(d	Limit BuV/m)	Margin (dB)			Rema	ark	
1	2	464.700	95.71		-3.2			2.49		54.00	38.49		AVG		3	
2	2	483.500	47.62		-3.1	6	4	4.46		54.00	-9.54		AVG		3	
3	2	485.100	46.57		-3.1	5	4	3.42		54.00	-10.58	AVG				
4	2	2500.000	41.38		-3.1	0	3	8.28		54.00	-15.72	2 AVG		3		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



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	2310.0002324	1.00 2338.0	0 2352.00	2356.00 2	380.00 239	1.00 2108.	00 2422.00	2450.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rer	mark
1	2387.980	74.93	-3.46	71.47	74.00	-2.53	pe	ak
2	2390.000	71.86	-3.46	68.40	74.00	-5.60	pe	ak
3	2432.920	102.65	-3.32	99.33	74.00	25.33	pe	ak

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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	0.0 23	310. <b>0</b> 002324	1.00 233	8.00 23	52.00	236	6.00	2380	).00	239	1.00	2408	.00	2122.	.00		2150.00	 MHz
No.	F	requency (MHz)	Reading (dBuV)		ection (dB/m)		lesult BuV/m)	(0	Lin dBu`	nit V/m)	Ma (d	rgin B)			Re	marl	k	
1		2385.740	53.11	-3	.46		9.65		54.		<u> </u>	.35				VG		
2		2390.000	53.37		.46		9.91		54.			.09				VG		
3		2434.460	93.02	-3	.32	8	39.70		54.	00	35	.70	AVG					

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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	23	310.0002324	1.00 2338	B.00 235	i2.00	235	6.00	238	0.00	239	1.00	240	8.00	242	2.00	2450.00	MHz
No.	F	requency (MHz)	Reading (dBuV)				lesult BuV/m)	(	Lim dBuV		Ma (d	rgin B)			Rem	ark	
1		2387.280	72.12	-3.4		· · ·	8.66		74.0			.34			pea	ik	
2		2390.000	67.68	-3.4	46	6	4.22		74.0	0	-9	.78			pea	ik	
3		2416.400	98.85	-3.	38	9	5.47		74.0	0	21	.47			pea	ik	

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



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	0.0 23	10.0002324	1.00 233	8.00	) 235;	2.00	235	6.00	238	0.00	239	1.00	2108	.00	242	2.00		2150.00	 MHz
No.	Fi	equency (MHz)	Reading (dBuV)		Correc factor(d			lesult BuV/m)	(		nit V/m)	Ma (d	rgin B)			F	Rema	rk	
1	2	385.460	50.09		-3.4			6.62		54	.00		.38				AVG	6	
2	2	2390.000	50.84		-3.4	6	4	7.38		54	.00		.62				AVG	)	
3	2	2414.440	89.87		-3.3	8	8	6.49	Γ	54	.00	32	.49				AVG	;	

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



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	2130.0	00 2447	7.00 246 <sup>,</sup>	1.00 248	1.00	2498	B.00 2	515.00 253	2.00 2549	.00 256	6.00	2600.00	MHz
No.	Frequ (Mł		Reading (dBuV)	Corrector(c			esult uV/m)	Limit (dBuV/m)	Margin (dB)		Rema	ark	
1		5.360	103.01	-3.2			9.79	74.00	25.79	peak			
2	2483	3.500	72.67	-3.1	6	6	9.51	74.00	-4.49	peak		k	
3	2485	5.590	74.94	-3.1	5	7	1.79	74.00	-2.21		peal	k	
4	2500	0.000	65.03	-3.1	0	6	1.93	74.00	-12.07	peak			

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



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	0.0	7.00 2151.0	0 2181.00	2498.00 2	515.00 253	2.00 2519.	.00 2566.00	2500.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ren	nark
1	2465.360	93.99	-3.22	90.77	54.00	36.77	A۱	/G
2	2483.500	54.96	-3.16	51.80	54.00	-2.20	A۱	/G
3	2487.460	53.53	-3.15	50.38	54.00	-3.62	A۱	/G
4	2500.000	47.14	-3.10	44.04	54.00	-9.96	A۱	/G

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



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No.	Fre (	quency MHz)		ading BuV)	Correct factor(c			esult BuV/m)	Limit (dBuV/m)	Margin (dB)		Rema	ark	
1		56.010	9	9.39	-3.2			6.14	74.00	22.14	peak		ĸ	
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3	24	86.610	7	1.06	-3.1	5	6	7.91	74.00	-6.09		peal	ĸ	
4	25	00.000	5	9.31	-3.1	0	5	6.21	74.00	-17.79		peal	ĸ	

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



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1	l20.0 dBu∀/m							
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	0.0	7.00 2464.0	10 2181.00	2498.00 2	515.00 253	2.00 2549.	00 2566.00	2500.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rem	nark
1	2465.360	92.05	-3.22	88.83	54.00	34.83	AV	'G
2	2483.500	53.37	-3.16	50.21	54.00	-3.79	AV	'G
3	2485.250	52.38	-3.15	49.23	54.00	-4.77	AV	
4	2500.000	44.71	-3.10	41.61	54.00	-12.39	AV	'G

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



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## 7.8 Radiated Spurious Emissions

 Test Requirement
 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

 Test Method:
 ANSI C63.10 (2013) Section 6.4,6.5,6.6

 Limit:
 Ansi C63.10 (2013) Section 6.4,6.5,6.6

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.



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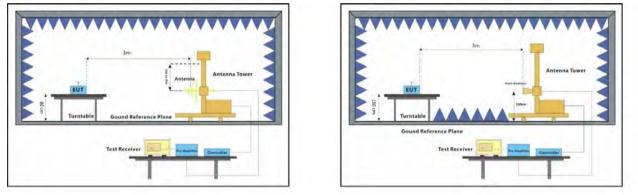


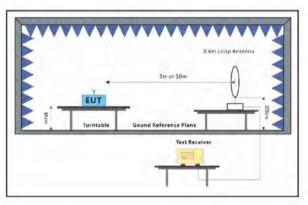
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### 7.8.1 E.U.T. Operation

Operating Enviro	onment:
Temperature:	25 °C Humidity: 49 % RH Atmospheric Pressure: 1008 mbar
Test mode	a: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.

#### 7.8.2 Test Setup Diagram







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#### 7.8.3 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) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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.

4) 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.



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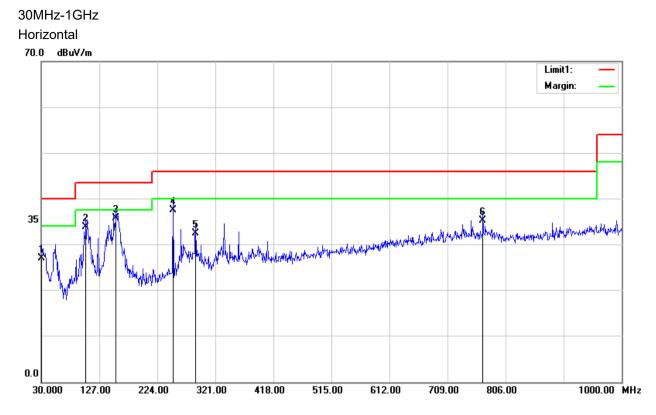
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.9700	1.62	25.38	27.00	40.00	-13.00	100	93	QP
2	104.6900	15.14	18.66	33.80	43.50	-9.70	200	313	QP
3	155.1300	15.96	19.74	35.70	43.50	-7.80	200	329	QP
4	250.1900	250.1900 18.24 19		37.56	46.00	-8.44	100	25	QP
5	288.0200	12.21	20.31	32.52	46.00	-13.48	100	360	QP
6	768.1700	7.58	27.61	35.19	46.00	-10.81	100	317	QP



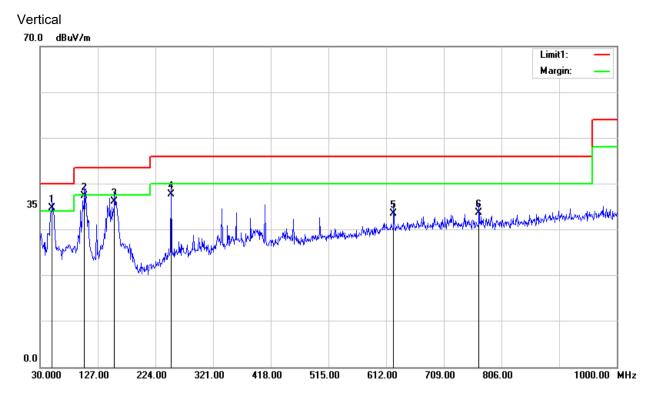
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	BuV/m) (dBuV/m)		(cm)	(deg.)	
1	50.3700	20.19	14.58	34.77	40.00	-5.23	100	67	QP
2	104.6900 18.76		18.66	37.42	43.50	-6.08	100	347	QP
3	155.1300	16.40	19.74	36.14	43.50	-7.36	100	250	QP
4	250.1900 18.41		19.32	37.73	46.00	-8.27	200	360	QP
5	624.6100	6.79	26.81	33.60	46.00	-12.40	100	203	QP
6	768.1700	6.15	27.61	33.76	46.00	-12.24	100	47	QP



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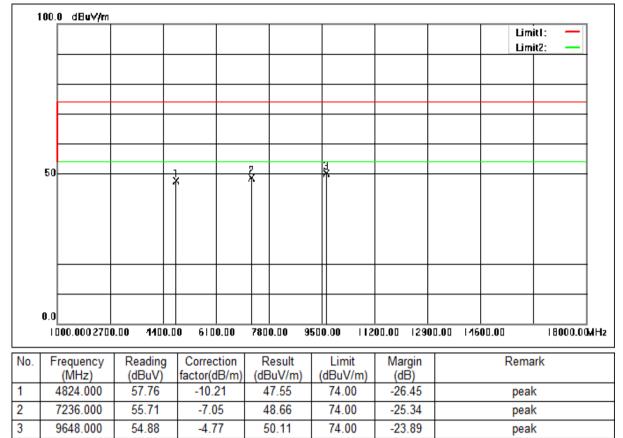
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### Above 1GHz

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low





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1	4	1824.000	57.76		-10.		4	7.55		74	.00	-26	.45				peal	¢		
2	1	7236.000	55.60		-7.0	)5	4	8.55		74	.00	-25	.45				peal	<		
3	9	648.000	54.66		-4.7	7	4	9.89		74	.00	-24	.11				peal	<		

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



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requency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rem	ark
4874.000	56.80	-10.01	46.79	74.00	-27.21		
7311.000							
	requency (MHz) 1874.000 7311.000	requency (MHz) (dBuV) (874.000 56.80	requency Reading Correction (MHz) (dBuV) factor(dB/m) 1874.000 56.80 -10.01 7311.000 55.15 -6.93	requency (MHz)         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)           1874.000         56.80         -10.01         46.79           7311.000         55.15         -6.93         48.22	requency (MHz)         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)         Limit (dBuV/m)           1874.000         56.80         -10.01         46.79         74.00           7311.000         55.15         -6.93         48.22         74.00	requency (MHz)         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dB)           1874.000         56.80         -10.01         46.79         74.00         -27.21           7311.000         55.15         -6.93         48.22         74.00         -25.78	requency (MHz)         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Rem (dB)           1874.000         56.80         -10.01         46.79         74.00         -27.21         pea           7311.000         55.15         -6.93         48.22         74.00         -25.78         pea

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:middle



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		(MHz) 4874.000	(dBuV) 57.11	-	factor(d -10.0			BuV/m) 7.10	(		8uV/m) 4.00		<u>B)</u> 5.90	<u> </u>			peak	,		
		7311.000	55.15	-	-6.9			8.22	$\vdash$		4.00		5.78				peak			
		9748.000	54.26	$\neg$	-4.3			9.96	$\vdash$		4.00		1.04				peak			

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle



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Vo.	F	requency	Reading	3	Correc			esult			imit	Ma	rgin			F	Rema	ark		
		(MHz)	(dBuV)		factor(d			BuV/m)	(		uV/m)		IB)	<b> </b>						
1		1924.000	57.07	_	-9.8			7.25	_		4.00		6.75	<u> </u>			pea			
2		7386.000	55.13	_	-6.8			8.33	_		4.00		5.67				pea			
}		9848.000	53.86		-3.8	4	5	0.02		1	4.00	-23	3.98				pea	k		

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



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No.	F		Reading (dBuV)	Co	rrection		lesult 3uV/m)			mit ıV/m)	Mar (dE	gin			Re	marl	¢		
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2		7386.000	56.78		-6.80		19.98	+		.00	-24					eak			
3	9	9848.000	53.97		-3.84	5	50.13	$\top$	74	.00	-23	87			pe	eak			

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



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No.	F	requency (MHz)	Reading (dBuV)		Correc factor(d			lesult BuV/m)	(	Limi dBuV		Mar (dE	gin 3)		F	Rema	ark		
1	4	4824.000	58.13		-10.2			7.92		74.0		-26	08			peal	ĸ		
2		7236.000	55.72		-7.0	5		8.67		74.0	0	-25				peal	ĸ		
3	9	9648.000	54.95		-4.7	7	5	0.18		74.0	0	-23	82			peal	ĸ		

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



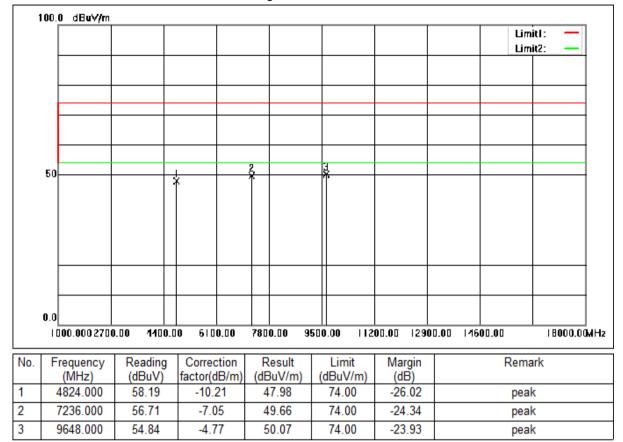
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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



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0.	F		Readin		Correc			lesult			Limit	Mar	gin			R	ema	rk		
	4	(MHz) 4874.000	(dBuV) 56.94		factor(c			3uV/m) 16.93			BuV/m) 74.00	(dl -27	5) .07	+			peak	(		
		7311.000	54.85		-6.9			7.92	+		74.00		.08				peak			
_	(	9748.000	54.19		-4.3	30	4	9.89	$\top$		74.00	-24	.11				peak	(		

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle



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1	4	4874.000	57.93		-10.0			7.92		1	74.00		5.08				pea	k		
2	1	7311.000	55.20		-6.9	3	4	8.27		1	74.00	-2	5.73				pea	k		
3	9	9748.000	54.37		-4.3	0	5	50.07		1	74.00	-23	3.93				pea	k		

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle



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	4	4924.000	57.40	-9.8			7.58	- (°		4.00	-26	_				peal	k		
2	1	7386.000	55.87	-6.8	0	4	9.07		74	4.00	-24	.93				peal	k		
}	9	9848.000	53.11	-3.8	4	4	9.27		74	4.00	-24	.73				peal	ĸ		

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



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No.	F	requency (MHz)	Reading (dBuV)	Corre factor(			lesult BuV/m)		Lin	nit //m)	Març (dE	gin			R	ema	rk		
1	4	4924.000	57.33	-9.8			7.51	(	74.0		-26.	-				peak	(		
2	1	7386.000	56.13	-6.8	30	4	9.33		74.	00	-24.	67				peak			
3		9848.000	53.70	-3.8	34	4	9.86		74.(	00	-24.	14				peak	(		

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



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No.	F	requency	Reading	Correction		Limit	Margin	Ren	nark
1		(MHz) 4824.000	(dBuV) 57.89	factor(dB/m -10.21	i) (dBuV/m) 47.68	(dBuV/m) 74.00	(dB) -26.32	ne	ak
2		7236.000	55.71	-7.05	48.66	74.00	-25.34		ak
3	<u> </u>	9648.000	54.56	-4.77	49.79	74.00	-24.21	pe	

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



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0.	F	requency (MHz)	Reading (dBuV)	1	Correct factor(d			lesult BuV/m)	(	Lim dBuV		Mar (dE	gin 3)			F	Rema	ark		
		4824.000	57.49		-10.2	21	4	7.28		74.0	)0	-26	.72				peal			
		7236.000	56.62		-7.0			9.57		74.0		-24					peal			
	9	9648.000	55.08		-4.7	7	- 5	0.31		74.0	00	-23	.69				peal	< .		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



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		7311.000	55.89		-6.9			8.96	┢		74.00		5.04				pea			
		9748.000	54.41		-4.3			50.11	$\vdash$		74.00		3.89				peal			

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



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2		7311.000	55.69		-6.9			8.76	+		74.00		5.24				peak			
3		9748.000	53.87		-4.3	0	4	9.57			74.00	-2	4.43				peal	(		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



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	4	4924.000	57.40		-9.8			7.58	- "		4.00		.42				pea	k		
	1	7386.000	55.46		-6.8	0	4	8.66	$\top$	7	4.00	-25	.34				peal			
	9	9848.000	53.17		-3.8	4	4	9.33		7	4.00	-24	.67				pea	k		

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



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2	Ĩ	7386.000	55.76	-6	80	4	8.96	$\top$	74.	00	-25.	04			peal	ĸ		
3		9848.000	53.72	-3.	84	4	9.88		74.	00	-24.	12			peal	ĸ		

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



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1	4	844.000	57.46		-10.1			7.33	+ "	74.0		-26.67			ŗ	beak			
2		266.000	56.68		-7.0			9.68	+	74.0		-24.32				beak			
3	9	688.000	54.26		-4.5	8	4	9.68	$\top$	74.0	0	-24.32				beak			

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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1	4	1844.000	57.71		-10.1			7.58	1	74.00	-26.42			pea	k		
2		7266.000	56.67		-7.0			9.67		74.00	-24.33	-		pea			
3	9	9688.000	54.75		-4.5	8	5	0.17		74.00	-23.83			pea			

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



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1	4	1874.000	58.34		-10.0			8.33			4.00	<b>`</b>	5.67				pea	k		
2	1	7311.000	56.15		-6.9	3	4	9.22		7	4.00	-24	1.78				pea	k		
}	9	9748.000	53.68		-4.3	0	4	9.38		7	4.00	-24	1.62				pea	k		

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle



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No.	F	requency	Reading	9	Correc	tion	R	lesult	Τ	Lin	nit	Margii	1		F	Rema	rk		
		(MHz)	(dBuV)		factor(d			BuV/m)	(		V/m)	(dB)							
1	4	1874.000	57.69		-10.0	01	4	7.68		74.	00	-26.32	2			peak			
2	7	311.000	55.48		-6.9	3	4	8.55		74.	00	-25.4	5			peak			
3	9	748.000	54.18		-4.3	0	4	9.88		74.	00	-24.12	2			peak			

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle

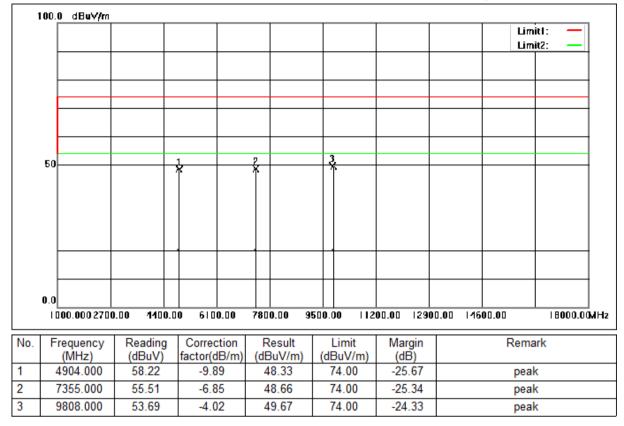


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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



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No.	F	requency (MHz)	Reading (dBuV)		Correction factor(dB/m)		Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)			Remark		k			
1	4	1904.000	57.57		-9.8		47.68				74.00		-26.32		peak				
2	Ĩ	7356.000	55.52		-6.8	15	4	8.67		7	4.00	-25	5.33		peak				
3	Ç	9808.000	54.13		-4.0	2	5	50.11		7	4.00	-23	8.89		peak				

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## 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

# 9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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