

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

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TEST REPORT

Application No.:	SHEM2108009806CR
FCC ID:	2AV6B-IP4MCB1PRO
IC:	26035-IP4MCB1PRO
Applicant:	Empowerment Technologies Inc
Address of Applicant:	590 York Rd.,Unit2, Niagara-on-the-Lake, L0S 1J0 , Canada
Manufacturer:	Empowerment Technologies Inc
Address of Manufacturer:	590 York Rd.,Unit2, Niagara-on-the-Lake, L0S 1J0 , Canada
Equipment Under Test (EU	Т):
EUT Name:	Wi-Fi Camera
Model No.:	IP4MCB1PRO;IP4MCB2PRO;IP4MCB3PRO;IP4MCB4PRO¤
¤	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
	RSS-247 Issue 2, February 2017
	RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt:	2021-08-24
Date of Test:	2021-08-26 to 2021-09-23
Date of Issue:	2021-09-30
Test Result:	Pass*

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

parlan share

Parlam Zhan Laboratory 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	Remark			
00	Original	2021-09-30	1	

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



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2 Test Summary

Radio Spectrum Tech	nnical Requirement			
ltem	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A Customer Declaratio	
N/A: Not applicable				
Radio Spectrum Matt	er Part			
ltem	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207	RSS-Gen Clause 8.8	ANSI C63.10 (2013) Section 6	Page
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Sectior 11.8.1	
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Sectior 11.9.2	n Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Sectior 11.10.2	
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Sectior 11.13.3.2	n Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Sectior 11.11	
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Sectior 6.10.5	n Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Sectior 6.4,6.5,6.6	
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	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 IP4MCB1PRO 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.

Power supply: Test voltage: Antenna Gain:	DC 12V by adapter AC 120V/60Hz Ant1: 1.79dBi (Provided by manufacturer) Ant2: 1.79dBi (Provided by manufacturer) Directional Gain: 4.8dBi
Antenna Type:	Monopole antenna
Channel Spacing:	5MHz
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
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
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
	802.11n(HT40): 2422MHz to 2452MHz
Firmware Version:	V1.0
Serial Number:	7G069A2RAZDCD05

4.2 Power level setting using in test:

Channel	802.11b		802.11g		802.11n(HT20)	
	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
1	29	31	38	39	31	32
6	29	31	38	39	31	32
11	29	31	38	39	31	32
Channel	802.11n(HT40)					
	Ant 1	Ant 2				
3	31	33]			
6	31	33]			
			1			

4.3 Description of Support Units

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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 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
0	DE Dedicted Dever	5.2dB (Below 1GHz)
8	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
0	Dedicted Onurious Engineers 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-20134, R-11600,C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	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	1	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	/	04/15/2021	04/14/2022
17	Software	BST	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
RF R	adiated Test					
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	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
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	02/21/2022
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/23/2020	10/22/2021
11	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
12	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
13	Filter (5450MHz \sim 5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
14	Filter (5690 MHz \sim 5930 MHz $)$	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
15	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R



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16	Filter (885 MHz \sim 915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz \sim 860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz \sim 1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz \sim 1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz \sim 1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
22	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
23	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
24	Software	Faratronic	EZ_EMC-v 3A1	N/A	N/A	N/A



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna 1 and antenna 2 is Monopole antenna, and all no consideration of replacement. The best case gain of the antenna 1 and antenna 2 is 1.79dBi.

Antenna location: Refer to Appendix (External 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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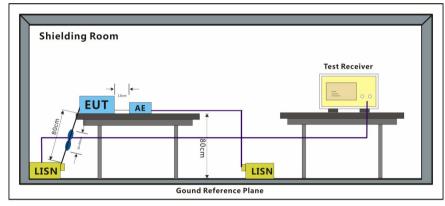


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7.1.1 E.U.T. Operation

Operating Environ	Operating Environment:						
Temperature:	22 °C	Humidity:	50	% RH	Atmospheric Pressure:	1002	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(HT4 Only the data of worst case is recorded in the report.					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 μ 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: LISN=Read Level+ Cable Loss+ LISN Factor

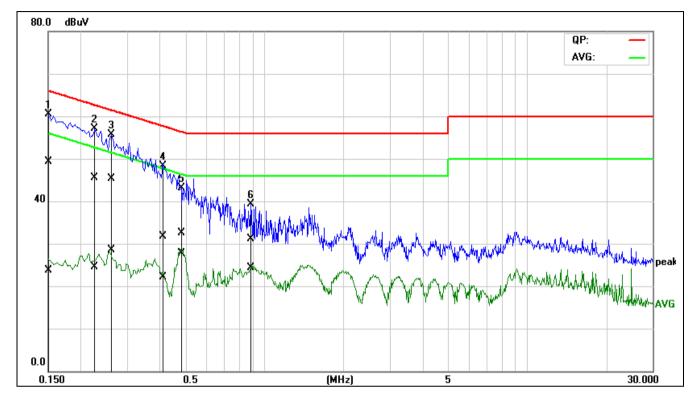


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Mode:a; Line:Live Line



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	0.1516	29.93	4.24	19.46	49.39	23.70	65.91	55.91	-16.52	-32.21	Pass
2	0.2274	26.11	5.13	19.47	45.58	24.60	62.54	52.54	-16.96	-27.94	Pass
3*	0.2602	25.76	9.03	19.47	45.23	28.50	61.42	51.43	-16.19	-22.93	Pass
4	0.4143	12.14	2.70	19.50	31.64	22.20	57.56	47.56	-25.92	-25.36	Pass
5	0.4784	12.91	8.24	19.52	32.43	27.76	56.37	46.37	-23.94	-18.61	Pass
6	0.8830	11.56	4.76	19.54	31.10	24.30	56.00	46.00	-24.90	-21.70	Pass



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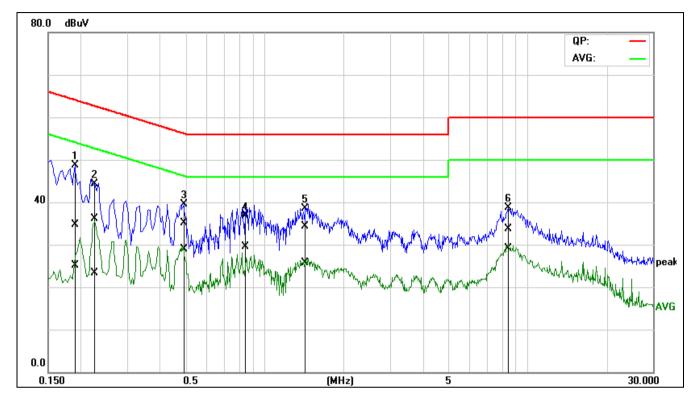
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Mode:a; Line:Neutral Line



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	0.1910	15.27	5.60	19.43	34.70	25.03	63.99	53.99	-29.29	-28.96	Pass
2	0.2254	16.69	3.96	19.44	36.13	23.40	62.62	52.62	-26.49	-29.22	Pass
3	0.4883	15.63	9.36	19.51	35.14	28.87	56.20	46.20	-21.06	-17.33	Pass
4*	0.8320	17.51	9.95	19.52	37.03	29.47	56.00	46.00	-18.97	-16.53	Pass
5	1.4396	14.83	6.21	19.55	34.38	25.76	56.00	46.00	-21.62	-20.24	Pass
6	8.3793	13.76	9.24	19.90	33.66	29.14	60.00	50.00	-26.34	-20.86	Pass



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7.2 Minimum 6dB Bandwidth

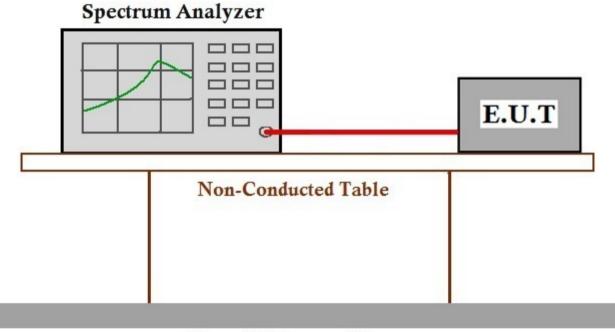
Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 mbarTest modea: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.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210800980601



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7.3 Conducted Average Output Power

Test Requirement47 CFR Part 15, Subpart C 15.247(b)(3)Test Method:ANSI C63.10 (2013) Section 11.9.2Limit:

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



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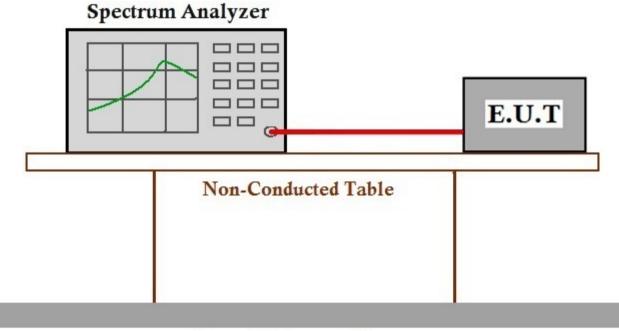


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7.3.1 E.U.T. Operation

Operating Environment:						
Temperature:	24 °C Humidity:	50 % RH	Atmospheric Pressure: 1010 mbar			
Test mode	types. All data rates for eac data rate @ 1Mbps is the w worst case of IEEE 802.11	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.				

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210800980601



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7.4 Power Spectrum Density

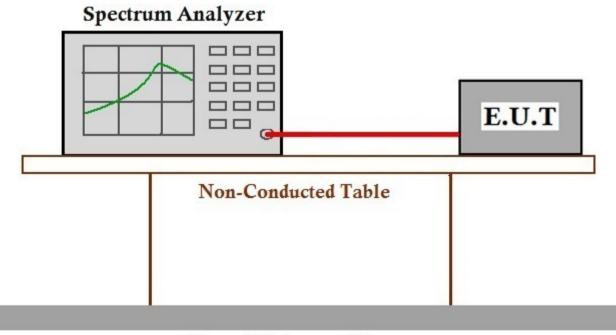
Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	\leq 8dBm in any 3 kHz band during any time interval of continuous transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 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.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210800980601



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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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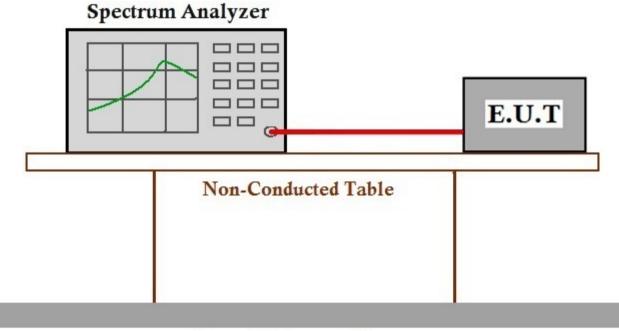


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7.5.1 E.U.T. Operation

Operating Environment:						
Temperature:	24 °C Humidity: 50 % RH Atm	ospheric Pressure: 1010 mbar				
Test mode	a:TX mode_Keep the EUT in continuously transm types. All data rates for each modulation type hav data rate @ 1Mbps is the worst case of IEEE 802 worst case of IEEE 802.11g; data rate @ 6.5Mbps 802.11n(HT20); data rate @ 13.5Mbps is the wors Only the data of worst case is recorded in the repo	e been tested and found the .11b; data rate @ 6Mbps is the s is the worst case of IEEE st case of IEEE 802.11n(HT40).				

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210800980601



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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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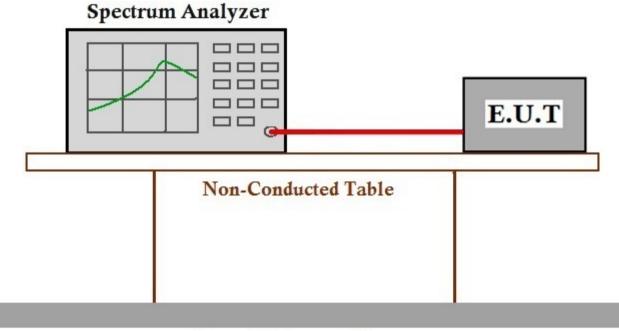


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7.6.1 E.U.T. Operation

Operating Enviro	onment:	
Temperature:	24 °C Humidity: 50 % RH Atm	ospheric Pressure: 1010 mbar
Test mode	a:TX mode_Keep the EUT in continuously transm types. All data rates for each modulation type hav data rate @ 1Mbps is the worst case of IEEE 802 worst case of IEEE 802.11g; data rate @ 6.5Mbps 802.11n(HT20); data rate @ 13.5Mbps is the wors Only the data of worst case is recorded in the repo	e been tested and found the .11b; data rate @ 6Mbps is the s is the worst case of IEEE st case of IEEE 802.11n(HT40).

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210800980601



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7.7 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15.209 & 15.247(d) **Test Requirement** ANSI C63.10 (2013) Section 6.10.5 Test Method: 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
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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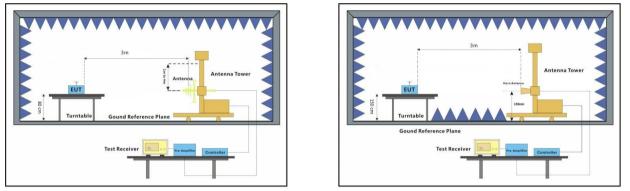


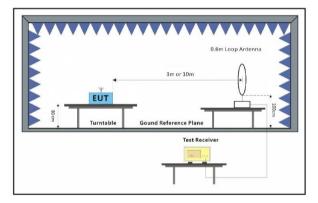
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7.7.1 E.U.T. Operation

Operating Enviro	onment:	
Temperature:	24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 m	ıbar
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.	e

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.

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



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



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4		2500.000	59.56	-13.64		45.92	74.00	-28.08		peak	

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



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3		2488.850		66.10		-13.	68		52.42		74.(00	-21.5	B			pe	ak	-
4		2500.000		61.22		-13.	64	4	47.58		74.(00	-26.42	2			pe	ak	

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



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+		2390.000	67.05	-14.			3.03	74.0		-20.96			ak	
		2414.160	112.77	-13.			8.83	74.0		24.83			ak	

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark						
1	2331.980	55.81	-14.19	41.62	54.00	-12.38		AVG						
2	2390.000	50.31	-14.01	36.30	54.00	-17.70								
3	2413.740	102.61	-13.94	88.67	54.00	34.67	AVG							

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



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1	2389		76.40		-14.(2.39	, 	74.00			1.61				pea	ak		
2	2390		77.51		-14.(3.50		74.00)	-10	0.50	peak						
3	2416	540	116.45	5	-13.9	93	1(02.52		74.00)	28	3.52				pea	ak		

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



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	2310.000 2324	1.00 2338.0	0 2352.00	2356.00 2	380.00 2 39	1.00 2108	.00 242	2.00	2150.00 MHz						
No.	Frequency	Reading	Correction	Result	Limit	Margin		Rema	rk						
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)									
1	2331.840	58.11	-14.19	43.92	54.00	-10.08									
2	2390.000	58.28	-14.01	44.27	54.00	-9.73									
3	2415.420	106.26	-13.93	92.33	54.00	38.33	AVG								

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1	1	2464.850	114.50		-13.			00.74	Ľ	74.00	26.	-		p	eak	
2	1	2483.500	68.96		-13.	71	5	5.25		74.00	-18.	3.75 peak		eak		
3	1	2484.350	67.27		-13.	70	5	3.57		74.00	-20.	0.43 peak		eak		
4	1	2500.000	58.77		-13.	64	4	5.13		74.00	-28.	87 peak		eak		

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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark			
1	2465.600	104.58	-13.76	90.82	54.00	36.82	A	VG			
2	2483.500	52.78	-13.71	39.07	54.00	-14.93		VG			
3	2484.950	50.86	-13.70	37.16	54.00	-16.84	AVG				
4	2500.000	48.08	-13.64	34.44	54.00	-19.56	A	VG			

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1	2467.100	117.35	-13.76	103.59	74.00	29.59	peak		
2	2483.500	83.86	-13.71	70.15	74.00	-3.85	peak		
3	2484.350	81.01	-13.70	67.31	74.00	-6.69	peak		
4	2500.000	61.21	-13.64	47.57	74.00	-26.43	peak		

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lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark	
	2467.400	107.28	-13.75	93.53	54.00	39.53	AVG		
	2483.500	59.39	-13.71	45.68	54.00	-8.32	AVG		
	2484.050	58.30	-13.70	44.60	54.00	-9.40	AVG		
	2500.000	49.23	-13.64	35.59	54.00	-18.41	AVG		

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



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1	2389.100	65.67	-14.01	51.66	74.00	-22.34		pe					
2	2390.000	66.53	-14.01	52.52	74.00	-21.48	peak						
3	2415.140	112.46	-13.93	98.53	74.00	24.53		pe	ak				

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No.	Frequency	Reading (dBuV)	Correction	Result	Limit	Margin		Remark	
1	(MHz) 2331.840	(dBuV) 55.82	factor(dB/m) -14.19	(dBuV/m) 41.63	(dBuV/m) 54.00	(dB) -12.37	AVG		
2	2390.000	50.99	-14.01	36.98	54.00	-17.02	AVG		
3	2416.540	102.34	-13.93	88.41	54.00	34.41	AVG		

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



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



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	2310.0002324	1.00 2338.0	10 2352.00	2366.00 2	380.00 239	1.00 2408	.00 2422	.00 2150.00	MHz
No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
-	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		AV/C	
1	2388.680	60.01	-14.01	46.00	54.00	-8.00	AVG		
2	2390.000	62.77	-14.01	48.76	54.00	-5.24	AVG		
3	2417.240	106.55	-13.93	92.62	54.00	38.62		AVG	

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



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	2450.000245	5.00 2480.	00 2495.00	2510.00 2	525.00 251	0.00 2555.	00 2570.00	2500.00 MHz
lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
	2467.400	113.83	-13.75	100.08	74.00	26.08	р	eak
	2483.500	73.43	-13.71	59.72	74.00	-14.28		eak
	2484.050	73.01	-13.70	59.31	74.00	-14.69	р	eak
	2500.000	58.06	-13.64	44.42	74.00	-29.58	р	eak

Mode:a; Polarization:Horizontal; Modulation:n; 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	mark
1	2466.050	103.93	-13.76	90.17	54.00	36.17	A	.VG
2	2483.500	53.68	-13.71	39.97	54.00	-14.03		.VG
3	2484.500	52.45	-13.70	38.75	54.00	-15.25	A	VG
4	2500.000	47.47	-13.64	33.83	54.00	-20.17	A	VG

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



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	0.0 2'	150.000 2465		00 2495.00	2510.00 2	525.00 254	0.00 2555 .	00 2570.00	2600.00 MHz
No.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m		Limit (dBuV/m)	Margin (dB)	Rei	mark
1	:	2466.200	117.55	-13.76	103.79	74.00	29.79	pe	eak
2	1	2483.500	81.13	-13.71	67.42	74.00	-6.58	pe	eak
3	1	2484.350	83.32	-13.70	69.62	74.00	-4.38	pe	eak
4	1	2500.000	60.57	-13.64	46.93	74.00	-27.07	pe	eak

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



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	2150	.0002465	5.00 248	0.0	0 249	5.00	251	0.00 2	252	5.00 254	10 .0	10 255	5.00	257	0.00		2500.0	MHz
No.	Freq	uency 1Hz)	Reading (dBuV)		Correct factor(c			lesult BuV/m)		Limit dBuV/m)	Γ	Margin (dB)				Ren	nark	
1		64.100	107.40		-13.			3.63	+	54.00	+	39.63	+			A٧	/G	
2	248	33.500	63.56		-13.	71	4	9.85		54.00		-4.15				A٧	/G	
3	248	34.350	61.81		-13.	70	4	8.11		54.00		-5.89				A١	/G	
4	250	00.000	49.29		-13.	64	3	5.65		54.00		-18.35				A٧	/G	

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



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



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	2310.0002324	1.00 2338.0	0 2352.00	2356.00 23	380.00 239	1.00 2108	.00 2422.00	2150.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	2388.400	55.30	-14.01	41.29	54.00	-12.71		AVG
2	2390.000	55.37	-14.01	41.36	54.00	-12.64		AVG
3	2436.420	100.45	-13.86	86.59	54.00	32.59		AVG

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



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	0.0 23	310.0002324	.00 2338.1	10 2352.00	2356.00 2	380.00 239	1.00 2108	00 2122.00	2150.00 MHz
۷o.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m		Limit (dBuV/m)	Margin (dB)	R	emark
	2	2389.100	83.73	-14.01	69.72	74.00	-4.28		peak
2	1	2390.000	83.12	-14.01	69.11	74.00	-4.89		peak
}	1	2436.840	114.16	-13.86	100.30	74.00	26.30		peak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; 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	2450.00 ₩	i Hz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
1	2388.540	64.78	-14.01	50.77	54.00	-3.23		AVG	
2 3	2390.000 2433.760	64.88 103.06	-14.01 -13.87	50.87 89.19	54.00 54.00	-3.13 35.19		AVG AVG	

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
1	2445.980	111.96	-13.83	98.13	74.00	24.13	p	eak
2			-13.71	62.06	74.00	-11.94		eak
3	2486.780	76.49	-13.70	62.79	74.00			
4	2500.000	65.63	-13.64	51.99	74.00	-22.01	pe	eak

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



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	0.0	7.00 2454.0	0 2181.00	2198.00 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)	Rei	mark
1	2465.360	101.36	-13.76	87.60	54.00	33.60	A	VG
2	2483.500	59.84	-13.71	46.13	54.00	-7.87		VG
3	2485.760	59.10	-13.70	45.40	54.00	- <mark>8.6</mark> 0		VG
4	2500.000	49.91	-13.64	36.27	54.00	-17.73	A	VG

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



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	2130.00024/	17.00 2464.0	0 2481.00	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)	Re	mark
1	2466.550	114.08	-13.76	100.32	74.00	26.32	р	eak
2	2483.500	81.80	-13.71	68.09	74.00	-5.91		eak
3	2485.080	81.45	-13.70	67.75	74.00	-6.25	•	
4	2500.000	71.88	-13.64	58.24	74.00	-15.76	р	eak

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



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	0.0	.00 2464.0	0 2181.00	2498.00 2	515.00 253	2.00 2519.	00 2556.00	2500.00 MHz
0.	Fraguanay	Reading	Correction	Result	Limit	Margin	Dou	mark
υ.	Frequency (MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Rei	lidir.
	2467.230	102.96	-13.76	89.20	54.00	35.20	A	VG
	2483.500	64.11	-13.71	50.40	54.00	-3.60	A	VG
	2484.910	63.61	-13.70	49.91	54.00	-4.09	4.09 AVG	
	2500.000	53.05	-13.64	39.41	54.00	-14.59	۵	VG

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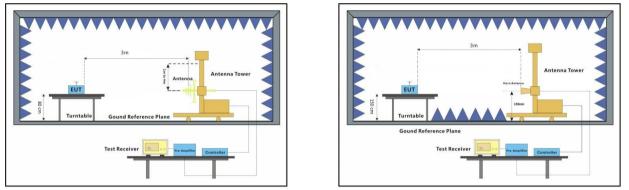


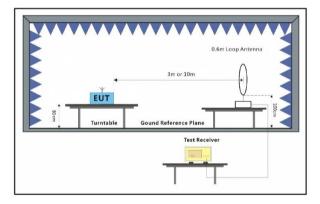
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7.8.1 E.U.T. Operation

Operating Enviro	onment:
Temperature:	24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 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.

5) 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.



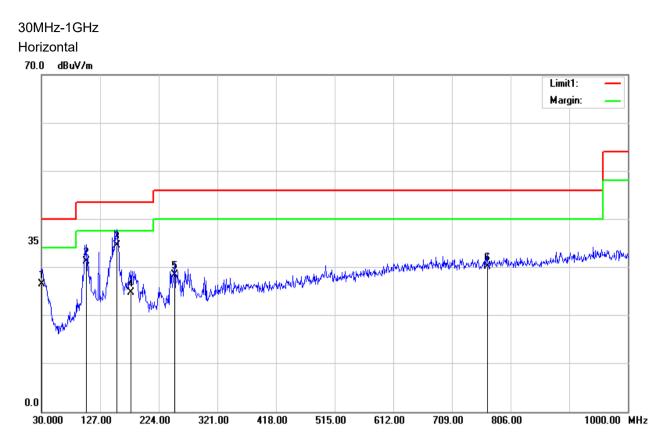
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.9700	1.14	25.38	26.52	40.00	-13.48	100	115	QP
2	104.6900	12.60	18.66	31.26	43.50	-12.24	100	360	QP
3	155.1300	14.88	19.74	34.62	43.50	-8.88	100	360	QP
4	178.4100	6.76	17.93	24.69	43.50	-18.81	100	15	QP
5	250.1900	9.10	19.32	28.42	46.00	-17.58	100	360	QP
6	767.2000	2.55	27.60	30.15	46.00	-15.85	100	25	QP



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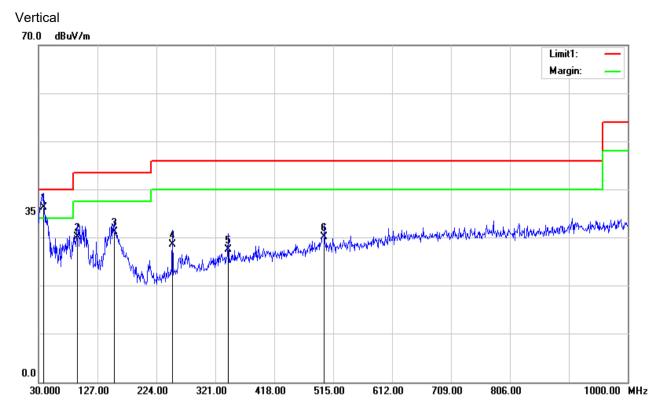
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	38.7300	15.31	20.95	36.26	40.00	-3.74	100	360	QP
2	94.0200	12.78	17.37	30.15	43.50	-13.35	100	44	QP
3	155.1300	11.51	19.74	31.25	43.50	-12.25	100	109	QP
4	250.1900	9.32	19.32	28.64	46.00	-17.36	100	310	QP
5	342.3400	5.50	22.11	27.61	46.00	-18.39	100	348	QP
6	500.4500	4.90	25.25	30.15	46.00	-15.85	100	348	QP



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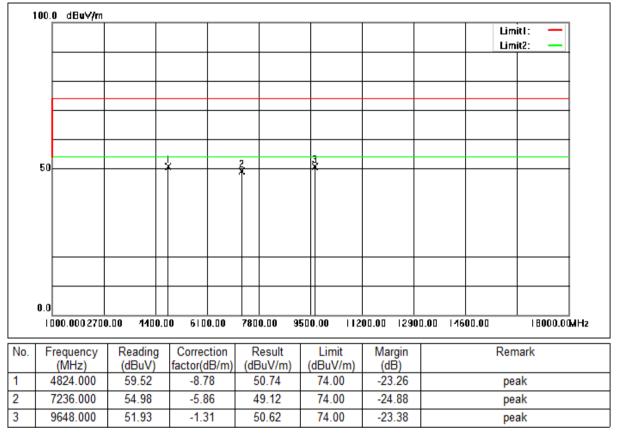




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Above 1GHz

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





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1	100.0 d⊟u∀/m							
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No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
1	(MHz) 4824.000	(dBuV) 59.19	factor(dB/m) -8.78	(dBuV/m) 50.41	(dBuV/m) 74.00	(dB) -23.59		peak
2	7236.000	55.23	-5.86	49.37	74.00	-24.63		peak
3	9648.000	51.35	-1.31	50.04	74.00	-23.96		peak

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



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No.	F	requency	Reading	Corre	ction	R	lesult		Limit	Margin			Rer	nark	
		(MHz)	(dBuV)	factor(_	BuV/m)	(0	lBuV/m)	(dB)	_				
1		4874.000	59.17	-8.6			0.56		74.00	-23.44	_		-	ak	
2		7311.000	55.14	-5.7			9.36		74.00	-24.64				ak	
3		9748.000	51.87	-1.4	3	5	0.44		74.00	-23.56			pe	ak	

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



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$ \rightarrow$	4874.000	59.55	-8.61).94		74.00	-23.06			-	eak	
	7311.000	55.17	-5.78			9.39		74.00	-24.61			-	eak	
	9748.000	52.28	-1.43		- 50).85		74.00	-23.15			р	eak	

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



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	4	924.000	59.37		-8.4			i0.93		74.00	-23.0			р	eak	
		7386.000	55.28		-5.6			9.59		74.00	-24.4	1		р	eak	
	9	848.000	51.68		-1.2	7	5	60.41		74.00	-23.5	9		р	eak	

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



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1		(MHz) 4924.000	(dBuV) 58.73	factor(0			BuV/m) 60.29	(0		.00		B) 1.71			pea	ak	
2		7386.000	55.47	-5.0			9.78			.00		.22			pe		
3	9	9848.000	51.49	-1.2	27	5	0.22		74	.00	-23	8.78			pea		

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



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1		4824.000	57.70		.78		8.92		74.00	-25.08			eak	
2		7236.000	55.08		.86		9.22		74.00	-24.78		pe	eak	
3		9648.000	51.43	-1	.31	5	0.12		74.00	-23.88		pe	eak	

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



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1		(MHz) 824.000	(dBuV) 57.13	_	factor(d -8.7			BuV/m) 8.35	((dBuV/m) 74.00		B) 5.65	+			pea	ak		
2		236.000	55.11	_	-5.8			9.25		74.00		1.75				pea			
3		648.000	51.80		-1.3			0.49		74.00		3.51				pea			

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



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1	4	(MHz) 4874.000	(dBuV) 56.70	factor(c			BuV/m) 8.09	(0	BuV/m) 74.00	(dB) -25.91			pea	ak	
2		7311.000	55.21	-5.7			9.43		74.00	-24.57					
3	9	9748.000	52.25	-1.4	3	5	0.82		74.00	-23.18			pea	ak	

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



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No.	F	requency	Reading	Correc	tion	R	lesult		Limit	Margin			Rem	nark	
		(MHz)	(dBuV)	factor(d			BuV/m)	(0	lBuV/m)	(dB)					
1		4874.000	56.75	-8.6			8.14		74.00	-25.86					
2		7311.000	55.81	-5.7			0.03		74.00	-23.97			pea		
3		9748.000	52.39	-1.4	3	5	0.96		74.00	-23.04	04 peak				

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



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1				factor(dB/m) -8.44		BuV/m) 8.87	(0	BuV/m) 74.00	(dB) -25.13			peak		
2		7386.000	55.49	-0.4			9.80		74.00	-24.20			peak	
3		9848.000	52.12	-1.2			0.85		74.00	-23.15			peak	
٠		0040.000	02.12	1.2	.,		0.00		14.00	20.10			poun	

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



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4		(MHz)	(dBuV) 56.70	factor(c			BuV/m)		BuV/m)	(dB)			-1-	
1		4924.000 7386.000	55.42	-0.4			8.26 9.73		74.00 74.00	-25.74 -24.27		-	ak	
2		9848.000	55.42	-5.0			9.75 0.90		74.00				ak	
J		9040.000	5Z.17	-1.4		3	0.90		14.00	-23.10		ре	ak	

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



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No.	Frequency	Reading	Correctio		lesult	Limit	Margin		Rema	ark
1	(MHz) 4824.000	(dBuV) 57.19	factor(dB/ -8.78		BuV/m) 8.41	(dBuV/m) 74.00	(dB) -25.59		pea	k
2	7236.000	55.81	-5.86		9.95	74.00	-24.05			
3	9648.000	51.95	-1.31	5	i0.64	74.00	-23.36		pea	k

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



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No.	F	requency	Reading	Correc			lesult		Limit	Margin			Ren	nark	
1		(MHz) 4824.000	(dBuV) 57.43	factor(c			BuV/m) 8.65	(0	dBuV/m) 74.00	(dB) -25.35				ak	
2		7236.000	55.64	-0.7			9.78		74.00	-25.35			-	ak ak	
2 3		9648.000	52.10	-5.0			0.79		74.00	-24.22	peak peak				
5		0040.000	52.10	-1.6			0.10		14.00	-20.21		peak			

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



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No.	F	requency	Reading	Correc	tion	R	lesult		Limit	Margin			Re	emark	
		(MHz)	(dBuV)	factor(o	lB/m)	(dE	BuV/m)	(0	dBuV/m)	(dB)					
1		4874.000	56.99	-8.6			8.38		74.00	-25.62				eak	
2		7311.000	55.45	-5.7			9.67		74.00	-24.33	peak				
3		9748.000	52.15	-1.4	3	5	0.72		74.00	-23.28	3 peak				

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



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1		(MHz) 4874.000	(dBuV) 57.00	factor(c			BuV/m) 8.39	<u> </u>	IBuV/m) 74.00	(dB) -25.61				ak	
2		7311.000	55.35	-0.0			9.57		74.00	-25.01		peak peak			
3		9748.000	51.58	-1.4			0.15		74.00	-23.85	-				

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



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1	4	(MHz) 4924.000	(dBuV) 56.59	factor(c			BuV/m) 8.15		BuV/m) 74.00	(dB) -25.85			peal	k	
2	1	7386.000	55.46	-5.6	69	4	9.77		74.00	-24.23	I				
3		9848.000	51.34	-1.2	27	5	0.07		74.00	-23.93	93 peak				

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



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1		(MHz) 4924.000	(dBuV) 56.95	factor(c			BuV/m) 8.51	<u> </u>	BuV/m) 74.00	(dB) -25.49	+	ne	eak	
2		7386.000	55.23	-5.6			9.54		74.00	-24.46	+	-	eak	
3		9848.000	51.73	-1.2			0.46		74.00	-23.54		-	eak	

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



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1		4844.000	57.52	+	-8.7			8.81		74.00	-25.19						
2		7266.000	55.50	+	-5.8			9.67		74.00	-24.33						
3		9688.000	51.62		-1.3	6	5	0.26		74.00	-23.74		peak				

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



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		100.0002700).00 1100	0.00	610	0.00	780	0.00 9	500	0.00 120	00.00 129	00.00 14	600.00		18000.00	MHz
No.	F	requency	Reading		Correc			esult		Limit	Margin			Rem	lark	
1		(MHz) 4844.000	(dBuV) 57.43	fa	ctor(d -8.7			BuV/m) 8.72	(dBuV/m) 74.00	(dB) -25.28				al.	
2		7266.000	55.17	+	-0.7			9.34		74.00	-25.20		peak peak			
2		9688.000	52.24	+	-5.0			0.88		74.00	-24.00	peak				
J	;	5000.000	JZ.24		-1.0	0	9	0.00		14.00	-ZJ. 1Z			pea	11	

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



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1	00.0 dBu∀/m									
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	0.0	.00 11 00.0	 0 6 00.00	7800.0	0 9!	500.00 2(00.00 1290	0.00 1460	0.00	18000.00MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m			Limit (dBuV/m)	Margin (dB)		Rem	ark
1	4874.000	57.11	-8.61	48.5	4	74.00	-25.50		pea	ık
2	7311.000	54.95	-5.78	49.1	17	74.00	-24.83	peak		
3	9748.000	52.13	-1.43	50.7	70	74.00	-23.30		pea	ik

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



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0.	Frequency	Reading	Correctio	n F	lesult	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/		BuV/m)	(dBuV/m)	(dB)			
	4874.000	57.16	-8.61	4	8.55	74.00	-25.45	peak		
	7311.000	54.92	-5.78	4	9.14	74.00	-24.86	peak		
	9748.000	51.79	-1.43	5	50.36	74.00	-23.64	peak		

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



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	10	100.000 2700	.00 1100	.00 610	0.00	780	0.00	950	0.00	112	00.00	1290	0.00 14	1600.00	0	18 00 (0.00MHz
No.	F	requency	Reading	Correc			lesult	T	Limi		Mar	gin			Ren	nark	
		(MHz)	(dBuV)	factor(o			BuV/m		(dBuV/		(dł						
1		4904.000	57.49	-8.5			8.98		74.0			.02	peak				
2		7356.000	54.94	-5.7	3	4	9.21		74.0	0	-24	.79	peak				
3	9	9808.000	51.85	-1.4	7	5	60.38		74.0	0	-23	.62	peak				

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



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			×	1				
	0.0							
	1000.00027	00.00 1100.	00 6100.00	7800.00 9	500.00 12	00.00 1290	0.00 1600.00	18000.00MHz
0.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
	4904.000 56.93		-8.51	48.42	74.00	-25.58		peak
	7356.000	55.17	-5.73	49.44	74.00	-24.56	24.56 peak	
\neg	9808.000	51.64	-1.47	50.17	74.00	-23.83		peak

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



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7.9 99% Bandwidth

Fest Requirement	RSS-Gen Section 6.7
Fest Method:	ANSI C63.10 Section 6.9.3

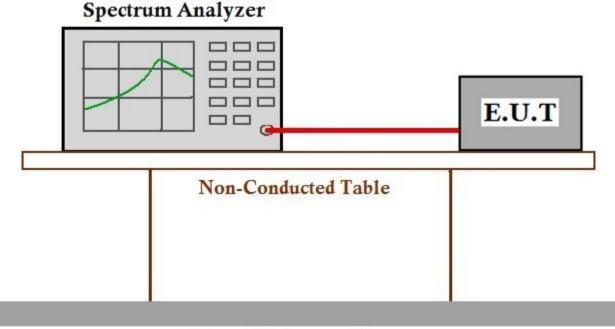
7.9.1 E.U.T. Operation

Т

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest modea: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.

7.9.2 Test Setup Diagram



Ground Reference Plane

7.9.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210800980601



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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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