

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

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TEST REPORT

Application No.:	SHEM2101000704CR		
FCC ID:	2APV2-CSCP1		
Applicant:	Hangzhou Ezviz Software Co., Ltd.		
Address of Applicant:	Room 302,Unit B,Building 2,399 Danfeng Road,Binjiang District,Hangzhou,Zhejiang		
Manufacturer:	Hangzhou Ezviz Software Co., Ltd.		
Address of Manufacturer:	Room 302,Unit B,Building 2,399 Danfeng Road,Binjiang District,Hangzhou,Zhejiang		
Equipment Under Test (EU	Г):		
EUT Name:	Smart Home Camera		
Model No.:	CS-C6N,CS-CP1,CS-XP1,CS-TY1,CS-TY2		
	CS-C6N (3MP,W1),CS-CP1 (3MP,W1),CS-XP1 (3MP,W1),		
	CS-TY1 (3MP,W1),CS-TY2 (3MP,W1)		
	CS-C6N-D0-2C3WF,CS-CP1-A0-2C3WF,CS-XP1-A0-2C3WF,CS-TY1-C0- 2C3WF,CS-TY2-C0-2C3WFX		
¤	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.		
Trade mark:	EZVIZ		
Standard(s) :	47 CFR Part 15, Subpart C 15.247		
Date of Receipt:	2021-01-25		
Date of Test:	2021-01-25 to 2021-02-05		
Date of Issue:	2021-02-05		
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	2021-02-05	/		

Authorized for issue by:		
	pichal Nil	
	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 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 CS-CP1 was tested since their differences were the model number and appearance.



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General Information 4

4.1 Details of E.U.T.

Power supply:	Input: DC 5V By adapter Adapter: model no: DYS05200CQ-U INPUT:100-240V~50/60Hz OUTPUT: DC5V 2.0A
Test voltage:	AC 120V/60Hz
Cable:	USB Cable 200cm
Antenna Gain:	1.91dBi
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
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz

4.2 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
	Ant 1	Ant 1	Ant 1
1	35	37	38
6	32	35	35
11	30	29	29

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	/	Test Plate 3	/



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4.4 Measurement Uncertainty

No.	ltem	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
8	DE Dedicted Dewer	5.1dB (Below 1GHz)
0	RF Radiated Power	4.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
0	Radiated Spurious Emission Test	4.5dB (30MHz-1GHz)
9		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

Conducted Emission at Mains Terminals (150kHz-30MHz)

		rminals (150kHz-30MHz)				• ·
Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
1	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R
2	EMI Test Receive	R&S	ESCI	100781	02/24/2020	02/23/2021
3	LISN	R&S	ENV216	101604	10/19/2020	10/18/2021
4	LISN	Schwarzbeck	NNLK 8129	8129-143	10/19/2020	10/18/2021
5	Pulse Limiter	R&S	ESH3-Z2	100609	02/24/2020	02/23/2021
6	CE test Cable	Thermax		14	02/24/2020	02/23/2021
7	Software	Fard technology co., ltd	EZ-EMC	1.1.1.2	N/A	N/A
RF	Conducted Test					
ltem	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
1	Test Software	BST	TST PASS	V 1.1.0	N.C.R	N.C.R
2	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/22/2020	04/21/2021
3	Spectrum Analyzer	Keysight	N9020A	MY53420174	09/25/2020	09/24/2021
4	Spectrum Analyzer	Keysight	N9020A	MY55370209	10/19/2020	10/18/2021
5	Signal Generator	Agilent	E8257C	MY43321570	10/10/2020	10/18/2021
6	MXG Vector Signal Generator	Agilent	N5182A	MY50142015	09/25/2020	09/24/2021
	Universal Radio Communication	0				
7	Tester	R&S	CMU200	109525	10/19/2020	10/18/2021
8	Universal Radio Communication Tester	R&S	CMW500	159275	10/19/2020	10/18/2021
9	Power Meter	Anritsu	ML2495A	1445010	04/21/2020	04/20/2021
10	Switcher	CCSRF	FY562	KS301219	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>i</i>	04/21/2020	04/22/2021
17	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/21/2020	04/20/2021
18	Software	SGS	TST-PASS	N/A	N/A	N/A
-	Radiated Test		1011/100	10/7	1.0// (10/7
Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
1	Test Software	Farad	EZ-EMC	CCS-03A1	N/A	N/A
2	Spectrum Analyzer	R&S				10/18/2021
3	opeourant / thatyzon				10/19/2020	
	Signal Concrator		FSV40	101493	10/19/2020	
	Signal Generator	Agilent	E8257C	MY43321570	10/10/2020	10/18/2021
4	Loop Antenna	Agilent COM-POWER	E8257C AL-130R	MY43321570 10160008	10/10/2020 04/29/2019	10/18/2021 04/28/2021
4 5	Loop Antenna Bilog Antenna	Agilent COM-POWER TESEQ	E8257C AL-130R CBL 6112D	MY43321570 10160008 35403	10/10/2020 04/29/2019 06/22/2019	10/18/2021 04/28/2021 06/21/2021
4 5 6	Loop Antenna Bilog Antenna Bilog Antenna	Agilent COM-POWER TESEQ SCHWARZBECK	E8257C AL-130R CBL 6112D VULB9160	MY43321570 10160008 35403 9160-3342	10/10/2020 04/29/2019 06/22/2019 04/29/2019	10/18/2021 04/28/2021 06/21/2021 04/28/2021
4 5 6 7	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz)	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D	MY43321570 10160008 35403 9160-3342 267	10/10/2020 04/29/2019 06/22/2019 04/29/2019 10/26/2020	10/18/2021 04/28/2021 06/21/2021 04/28/2021 10/25/2022
4 5 6 7 8	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz)	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117	MY43321570 10160008 35403 9160-3342 267 00143290	10/10/2020 04/29/2019 06/22/2019 04/29/2019 10/26/2020 02/25/2019	10/18/2021 04/28/2021 06/21/2021 04/28/2021 10/25/2022 02/24/2021
4 5 6 7 8 9	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz) Horn Antenna(18-40GHz)	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN Schwarzbeck	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117 BBHA9170	MY43321570 10160008 35403 9160-3342 267	10/10/2020 04/29/2019 06/22/2019 04/29/2019 10/26/2020 02/25/2019 02/27/2018	10/18/2021 04/28/2021 06/21/2021 04/28/2021 10/25/2022 02/24/2021 02/26/2021
4 5 6 7 8 9 10	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz) Horn Antenna(18-40GHz) Pre-Amplifier(30MHz~18GHz)	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN Schwarzbeck CCSRF	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117 BBHA9170 AMP1277	MY43321570 10160008 35403 9160-3342 267 00143290 BBHA9170171 1	10/10/2020 04/29/2019 06/22/2019 04/29/2019 10/26/2020 02/25/2019 02/27/2018 10/19/2020	10/18/2021 04/28/2021 06/21/2021 04/28/2021 10/25/2022 02/24/2021 02/26/2021 10/18/2021
4 5 6 7 8 9 10 11	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz) Horn Antenna(18-40GHz)	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN Schwarzbeck	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117 BBHA9170	MY43321570 10160008 35403 9160-3342 267 00143290 BBHA9170171	10/10/2020 04/29/2019 06/22/2019 04/29/2019 10/26/2020 02/25/2019 02/27/2018	10/18/2021 04/28/2021 06/21/2021 04/28/2021 10/25/2022 02/24/2021 02/26/2021
4 5 6 7 8 9 10	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz) Horn Antenna(18-40GHz) Pre-Amplifier(30MHz~18GHz)	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN Schwarzbeck CCSRF	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117 BBHA9170 AMP1277	MY43321570 10160008 35403 9160-3342 267 00143290 BBHA9170171 1	10/10/2020 04/29/2019 06/22/2019 04/29/2019 10/26/2020 02/25/2019 02/27/2018 10/19/2020 04/21/2020 N.C.R	10/18/2021 04/28/2021 06/21/2021 04/28/2021 10/25/2022 02/24/2021 02/26/2021 10/18/2021
4 5 6 7 8 9 10 11	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz) Horn Antenna(18-40GHz) Pre-Amplifier(30MHz~18GHz) Pre-Amplifier(0.1~26.5GHz)	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN Schwarzbeck CCSRF EMCI	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117 BBHA9170 AMP1277 EMC012645	MY43321570 10160008 35403 9160-3342 267 00143290 BBHA9170171 1 980060	10/10/2020 04/29/2019 06/22/2019 04/29/2019 10/26/2020 02/25/2019 02/27/2018 10/19/2020 04/21/2020	10/18/2021 04/28/2021 06/21/2021 04/28/2021 10/25/2022 02/24/2021 02/26/2021 10/18/2021 04/20/2021
4 5 6 7 8 9 10 11 12	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz) Horn Antenna(18-40GHz) Pre-Amplifier(30MHz~18GHz) Pre-Amplifier(0.1~26.5GHz) Low Pass Filter	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN Schwarzbeck CCSRF EMCI MICRO-TRONICS	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117 BBHA9170 AMP1277 EMC012645 VLFX-950	MY43321570 10160008 35403 9160-3342 267 00143290 BBHA9170171 1 980060 RV142900829	10/10/2020 04/29/2019 06/22/2019 04/29/2019 10/26/2020 02/25/2019 02/27/2018 10/19/2020 04/21/2020 N.C.R	10/18/2021 04/28/2021 06/21/2021 10/25/2022 02/24/2021 02/26/2021 10/18/2021 04/20/2021 N.C.R
4 5 6 7 8 9 10 11 12 13	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz) Pre-Amplifier(30MHz~18GHz) Pre-Amplifier(0.1~26.5GHz) Low Pass Filter High Pass Filter	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN Schwarzbeck CCSRF EMCI MICRO-TRONICS Mini-Circuits	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117 BBHA9170 AMP1277 EMC012645 VLFX-950 VHF-1200 BRC50704-01	MY43321570 10160008 35403 9160-3342 267 00143290 BBHA9170171 1 980060 RV142900829 15542	10/10/2020 04/29/2019 06/22/2019 10/26/2020 02/25/2019 02/27/2018 10/19/2020 04/21/2020 N.C.R N.C.R N.C.R	10/18/2021 04/28/2021 06/21/2021 10/25/2022 02/24/2021 02/26/2021 10/18/2021 04/20/2021 N.C.R N.C.R
4 5 6 7 8 9 10 11 12 13 14	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz) Pre-Amplifier(30MHz~18GHz) Pre-Amplifier(0.1~26.5GHz) Low Pass Filter High Pass Filter Filter (5450MHz~5770 MHz) Filter (5690 MHz~5930 MHz)	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN Schwarzbeck CCSRF EMCI MICRO-TRONICS Mini-Circuits MICRO-TRONICS MICRO-TRONICS	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117 BBHA9170 AMP1277 EMC012645 VLFX-950 VHF-1200 BRC50704-01 BRC50705-01	MY43321570 10160008 35403 9160-3342 267 00143290 BBHA9170171 1 980060 RV142900829 15542 2 4	10/10/2020 04/29/2019 06/22/2019 04/29/2019 10/26/2020 02/25/2019 02/27/2018 10/19/2020 04/21/2020 N.C.R N.C.R N.C.R N.C.R	10/18/2021 04/28/2021 06/21/2021 10/25/2022 02/24/2021 02/26/2021 10/18/2021 04/20/2021 N.C.R N.C.R N.C.R N.C.R
4 5 7 8 9 10 11 12 13 14 15 16	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz) Horn Antenna(18-40GHz) Pre-Amplifier(30MHz~18GHz) Pre-Amplifier(0.1~26.5GHz) Low Pass Filter High Pass Filter Filter (5450MHz~5770 MHz) Filter (5690 MHz~5930 MHz) Filter (5150 MHz~5350 MHz)	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN Schwarzbeck CCSRF EMCI MICRO-TRONICS Mini-Circuits MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117 BBHA9170 AMP1277 EMC012645 VLFX-950 VHF-1200 BRC50704-01 BRC50705-01 BRC50703-01	MY43321570 10160008 35403 9160-3342 267 00143290 BBHA9170171 1 980060 RV142900829 15542 2 4 4 2	10/10/2020 04/29/2019 06/22/2019 04/29/2019 10/26/2020 02/25/2019 02/27/2018 10/19/2020 04/21/2020 N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R	10/18/2021 04/28/2021 06/21/2021 04/28/2021 10/25/2022 02/24/2021 02/26/2021 10/18/2021 04/20/2021 N.C.R N.C.R N.C.R N.C.R N.C.R
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz) Horn Antenna(18GHz) Pre-Amplifier(30MHz~18GHz) Pre-Amplifier(30MHz~18GHz) Pre-Amplifier(0.1~26.5GHz) Low Pass Filter High Pass Filter Filter (5450MHz~5770 MHz) Filter (5690 MHz~5930 MHz) Filter (5150 MHz~5930 MHz) Filter (885 MHz~915 MHz) Filter (815 MHz~860 MHz)	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN Schwarzbeck CCSRF EMCI MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117 BBHA9170 AMP1277 EMC012645 VLFX-950 VHF-1200 BRC50704-01 BRC50705-01 BRC50703-01 BRM14698 BRM14697	MY43321570 10160008 35403 9160-3342 267 00143290 BBHA9170171 1 980060 RV142900829 15542 2 4 2 4 2 1 1 1 1	10/10/2020 04/29/2019 06/22/2019 04/29/2019 02/25/2019 02/27/2018 10/19/2020 04/21/2020 N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R	10/18/2021 04/28/2021 06/21/2021 10/25/2022 02/24/2021 02/26/2021 10/18/2021 04/20/2021 N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz) Horn Antenna(18GHz) Pre-Amplifier(30MHz~18GHz) Pre-Amplifier(0.1~26.5GHz) Low Pass Filter High Pass Filter Filter (5450MHz~5770 MHz) Filter (5690 MHz~5930 MHz) Filter (5150 MHz~5350 MHz) Filter (885 MHz~915 MHz) Filter (815 MHz~860 MHz) Filter (1745 MHz~1910 MHz)	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN Schwarzbeck CCSRF EMCI MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117 BBHA9170 AMP1277 EMC012645 VLFX-950 VHF-1200 BRC50704-01 BRC50705-01 BRC50703-01 BRM14698 BRM14697 BRM14700	MY43321570 10160008 35403 9160-3342 267 00143290 BBHA9170171 1 980060 RV142900829 15542 2 4 2 4 2 1 1 1 1 1	10/10/2020 04/29/2019 06/22/2019 04/29/2019 02/25/2019 02/27/2018 10/19/2020 04/21/2020 N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R	10/18/2021 04/28/2021 06/21/2021 10/25/2022 02/24/2021 02/26/2021 10/18/2021 04/20/2021 N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz) Horn Antenna(18-40GHz) Pre-Amplifier(30MHz~18GHz) Pre-Amplifier(0.1~26.5GHz) Low Pass Filter High Pass Filter Filter (5450MHz~5770 MHz) Filter (5450MHz~5930 MHz) Filter (5150 MHz~5350 MHz) Filter (885 MHz~915 MHz) Filter (815 MHz~860 MHz) Filter (1745 MHz~1910 MHz) Filter (1922 MHz~1977 MHz)	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN Schwarzbeck CCSRF EMCI MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117 BBHA9170 AMP1277 EMC012645 VLFX-950 VHF-1200 BRC50704-01 BRC50705-01 BRC50703-01 BRM14698 BRM14700 BRM50715	MY43321570 10160008 35403 9160-3342 267 00143290 BBHA9170171 1 980060 RV142900829 15542 2 4 2 4 2 1 1 1 1 1 1 1 1	10/10/2020 04/29/2019 06/22/2019 04/29/2019 02/25/2019 02/27/2018 10/19/2020 04/21/2020 N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R	10/18/2021 04/28/2021 06/21/2021 04/28/2021 10/25/2022 02/24/2021 02/26/2021 04/20/2021 N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R N.C.R
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Loop Antenna Bilog Antenna Bilog Antenna Horn-antenna(1-18GHz) Horn-antenna(1-18GHz) Horn Antenna(18GHz) Pre-Amplifier(30MHz~18GHz) Pre-Amplifier(30MHz~18GHz) Pre-Amplifier(0.1~26.5GHz) Low Pass Filter High Pass Filter Filter (5450MHz~5770 MHz) Filter (5450MHz~5930 MHz) Filter (5150 MHz~5350 MHz) Filter (815 MHz~915 MHz) Filter (815 MHz~915 MHz) Filter (1745 MHz~1910 MHz) Filter (1922 MHz~1977 MHz) Filter (1532 MHz~1845 MHz)	Agilent COM-POWER TESEQ SCHWARZBECK Schwarzbeck ETS-LINDGREN Schwarzbeck CCSRF EMCI MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS MICRO-TRONICS	E8257C AL-130R CBL 6112D VULB9160 BBHA9120D 3117 BBHA9170 AMP1277 EMC012645 VLFX-950 VHF-1200 BRC50704-01 BRC50705-01 BRC50703-01 BRM14698 BRM14697 BRM50715 HPM13362 BRM50713	MY43321570 10160008 35403 9160-3342 267 00143290 BBHA9170171 1 980060 RV142900829 15542 2 4 2 1 1 2 1 1 1 1 1 1 5 5 1	10/10/2020 04/29/2019 06/22/2019 10/26/2020 02/25/2019 02/27/2018 10/19/2020 04/21/2020 N.C.R	10/18/2021 04/28/2021 06/21/2021 04/28/2021 10/25/2022 02/24/2021 02/26/2021 10/18/2021 04/20/2021 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 1.91dBi.

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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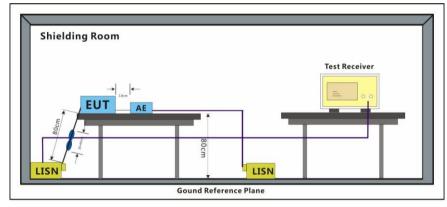


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7.1.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	24 °C	Humidity: 4	48 % RH	Atmospheric Pressure:	1010 mbar
Test mode	mode with all tested and four rate @ 6Mbps	modulation type and the data rate is the worst ca	es. All data rate e @ 1Mbps is t ase of IEEE 802	rging and continuously tran es for each modulation typ the worst case of IEEE 80 2.11g; data rate @ 6.5Mbp e data of worst case is reco	be have been 2.11b; data ps is 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/50µH + 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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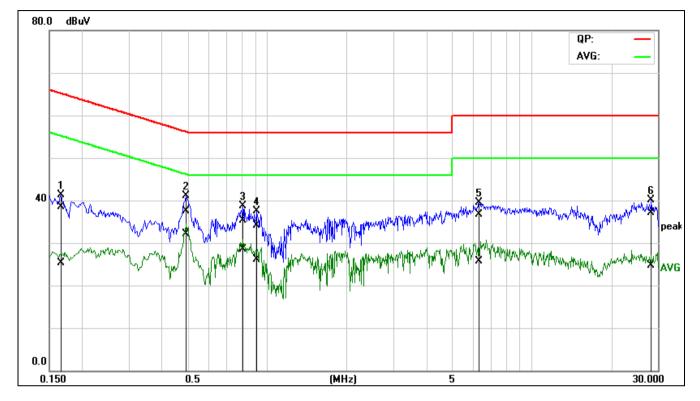


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Mode:a; Line:Live Line



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	0.1660	19.13	5.83	19.43	38.56	25.26	65.15	55.16	-26.59	-29.90	Pass
2*	0.4940	18.00	12.58	19.47	37.47	32.05	56.10	46.10	-18.63	-14.05	Pass
3	0.8100	15.80	9.11	19.48	35.28	28.59	56.00	46.00	-20.72	-17.41	Pass
4	0.9140	14.57	6.66	19.48	34.05	26.14	56.00	46.00	-21.95	-19.86	Pass
5	6.3300	16.92	5.90	19.77	36.69	25.67	60.00	50.00	-23.31	-24.33	Pass
6	28.3580	16.56	4.25	20.49	37.05	24.74	60.00	50.00	-22.95	-25.26	Pass



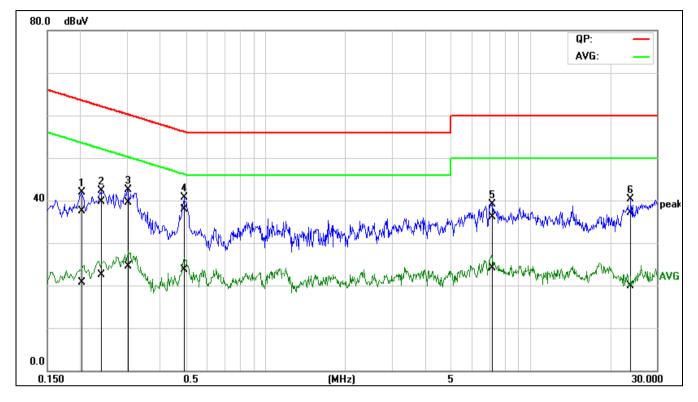
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Mode:a; Line:Neutral Line



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	0.2020	18.19	1.30	19.39	37.58	20.69	63.52	53.53	-25.94	-32.84	Pass
2	0.2391	20.24	3.01	19.40	39.64	22.41	62.12	52.13	-22.48	-29.72	Pass
3	0.3020	20.07	5.17	19.40	39.47	24.57	60.19	50.19	-20.72	-25.62	Pass
4*	0.4940	18.40	4.24	19.45	37.85	23.69	56.10	46.10	-18.25	-22.41	Pass
5	7.1780	16.23	4.38	19.80	36.03	24.18	60.00	50.00	-23.97	-25.82	Pass
6	23.9060	16.78	-0.40	20.36	37.14	19.96	60.00	50.00	-22.86	-30.04	Pass



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7.2 Minimum 6dB Bandwidth

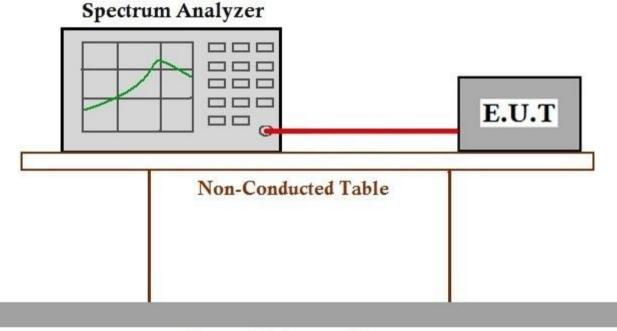
Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar Test mode a:Charge + TX mode Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20).Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210100070401



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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 modulation

7.3.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:48 % RHAtmospheric Pressure:1010 mbarTest modea:Charge + TX mode_Keep the EUT in charging and continuously transmitting
mode with all modulation types. All data rates for each modulation type have been
tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data
rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the
worst case of IEEE 802.11n(HT20).Only the data of worst case is recorded in the
report.



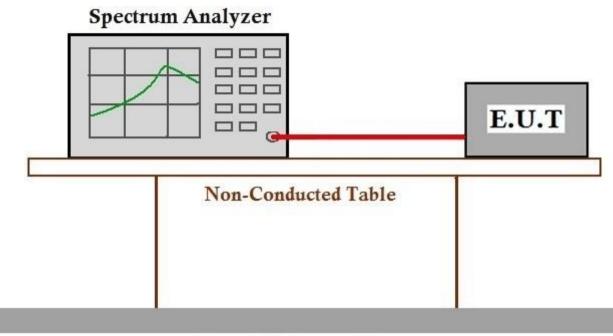
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7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210100070401



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7.4 Power Spectrum Density

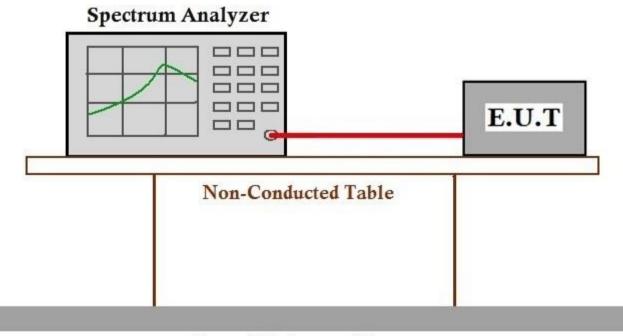
Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	\leq 8dBm in any 3 kHz band during any time interval of continuous transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:48 % RHAtmospheric Pressure:1010 mbarTest modea:Charge + TX mode_Keep the EUT in charging and continuously transmitting
mode with all modulation types. All data rates for each modulation type have been
tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data
rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the
worst case of IEEE 802.11n(HT20).Only the data of worst case is recorded in the
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7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210100070401



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7.5 Conducted Band Edges Measurement

Test Method:ANSI C63.10 (2013) Section 11.13.3.2Limit: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 leas	Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
spectrum or digitally modulated intentional radiator is operating, the radio	Test Method:	ANSI C63.10 (2013) Section 11.13.3.2
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	Limit:	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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Atmospheric Pressure: 1010 mbar Humidity: 48 % RH Test mode a:Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20).Only the data of worst case is recorded in the report.



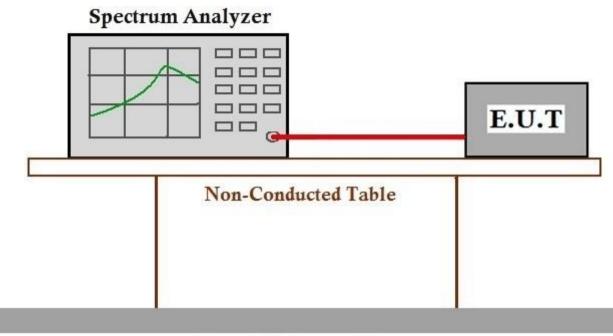
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7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210100070401



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7.6 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.11
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)

7.6.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:48 % RHAtmospheric Pressure:1010 mbarTest modea:Charge + TX mode_Keep the EUT in charging and continuously transmitting
mode with all modulation types. All data rates for each modulation type have been
tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data
rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the
worst case of IEEE 802.11n(HT20).Only the data of worst case is recorded in the
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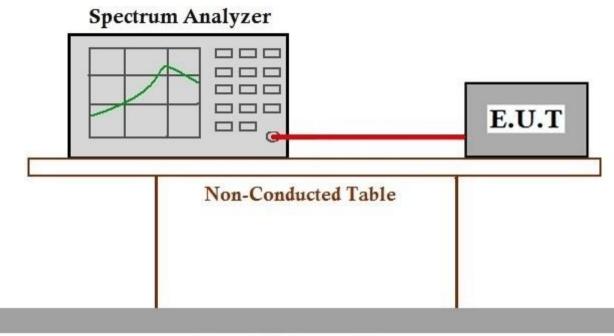
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7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210100070401



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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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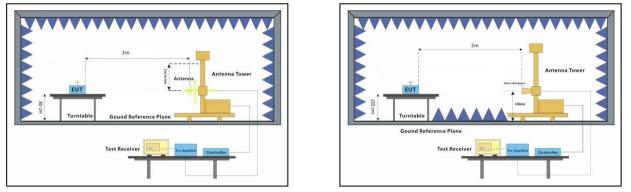


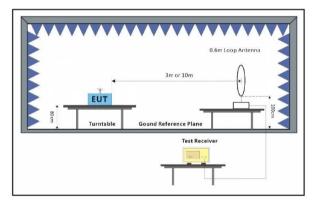
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7.7.1 E.U.T. Operation

Operating Enviro	onment:				
Temperature:	25 °C	Humidity:	49	% RH	Atmospheric Pressure: 1004 mbar
Test mode	mode with al tested and for rate @ 6Mbp	I modulation typ ound the data ra os is the worst o	oes. ate @ case	All data rat 1Mbps is of IEEE 80	arging and continuously transmitting tes for each modulation type have been the worst case of IEEE 802.11b; data 02.11g; data rate @ 6.5Mbps is the e data of worst case is recorded in the

7.7.2 Test Setup Diagram







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



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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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2		2390.000	52.25		-4.24	4	8.01		74	4.00	-25.	99				peal	¢	
3		2412.200	108.87		-4.19	1(04.68		74	4.00	30.	68				peal	¢	

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rem	ark
1	2383.360	53.29	-4.26	49.03	74.00	-24.97	pea	ak
2	2390.000	53.28	-4.24	49.04	74.00	-24.96	pea	
3	2411.080	108.00	-4.19	103.81	74.00	29.81	pea	ak

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



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3		2485.100		53.81		-4.0			9.81	74.0		-24.19			peal		
4	2	2500.000)	50.92		-3.9	96	4	6.96	74.0	00	-27.04			peal	k	

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



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					+										peak		
2		2483.500		52.74	+	-4.0			8.74		74.00	-25.26			peak		
3		2486.300		53.07		-4.0			9.07		74.00	-24.93			peak		
4		2500.000	)	49.62		-3.9	6	4	5.66		74.00	-28.34			peak	(	

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



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Image: No.         Frequency (MHz)         Reading (GBuV) factor(dB/m) factor(dB/m) (dBuV/m) (dBuV/m) (dBuV/m) (dB)         Remark (dBuV) factor(dB/m) factor(dB/m) (dBuV/m) (dB)         Remark (dBuV/m) factor(dB/m) factor(dB/m) (dBuV/m) (dB)         Remark factor	1	20.	0 dBu∀/m															
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No.         Frequency (MHz)         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Remark           1         2383.220         54.02         -4.26         49.76         74.00         -24.24         peak           2         2390.000         52.60         -4.24         48.36         74.00         -25.64         peak													$\left[ \right]$		~ ~			
No.         Frequency (MHz)         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Remark           1         2383.220         54.02         -4.26         49.76         74.00         -24.24         peak           2         2390.000         52.60         -4.24         48.36         74.00         -25.64         peak																		
No.         Frequency (MHz)         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dBuV/m)         Remark           1         2383.220         54.02         -4.26         49.76         74.00         -24.24         peak												1				4		
No.         Frequency (MHz)         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dBuV/m)         Remark           1         2383.220         54.02         -4.26         49.76         74.00         -24.24         peak												V				~		ĺ
No.         Frequency (MHz)         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dBu         Remark           1         2383.220         54.02         -4.26         49.76         74.00         -24.24         peak           2         2390.000         52.60         -4.24         48.36         74.00         -25.64         peak		60										Ą				N.		
No.         Frequency (MHz)         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dBu         Remark           1         2383.220         54.02         -4.26         49.76         74.00         -24.24         peak           2         2390.000         52.60         -4.24         48.36         74.00         -25.64         peak										Ar de	add and a							
2310.0002324.00         2338.00         2352.00         2356.00         2380.00         2394.00         2408.00         2422.00         2450.00 M           No.         Frequency (MHz)         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Remark           1         2383.220         54.02         -4.26         49.76         74.00         -24.24         peak           2         2390.000         52.60         -4.24         48.36         74.00         -25.64         peak										+				_			•••	-
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No.         Frequency (MHz)         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Remark           1         2383.220         54.02         -4.26         49.76         74.00         -24.24         peak           2         2390.000         52.60         -4.24         48.36         74.00         -25.64         peak															0.10		0.150.00	
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1         2383.220         54.02         -4.26         49.76         74.00         -24.24         peak           2         2390.000         52.60         -4.24         48.36         74.00         -25.64         peak	No.	F							(-			Mar	gin			Rem	ark	
2 2390.000 52.60 -4.24 48.36 74.00 -25.64 peak	1	-		, , ,			_	-	_			<u> </u>	_			pea	k	
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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



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2	1	2390.000	54.42	-4	1.24	5	0.18		74	.00	-23	3.82			peal			
3	1	2416.680	107.39	-4	4.17	1	03.22	$\top$	74	.00	29	.22			peal	k		

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



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1	2	2465.300	104.66		-4.(			00.61	74.00	26.61		pea	k	
2	2	2483.500	50.82	+	-4.(	)0	4	6.82	74.00	-27.18		pea	k	
3	2	2487.200	52.61		-3.9	9	4	8.62	74.00	-25.38		pea	k	
4	2	2500.000	50.68		-3.9	)6	4	6.72	74.00	-27.28		pea	k	

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1		2460.500	105.88		-4.0		L	01.82		4.00	27.82		pea		
2	2483.500 52.26 -4.00			48.26		74.00		-25.74	peak						
3	3 2489.000 53.57			-3.9	9 49.58		74.00		-24.42	peak					
4	4 2500.000 50.3		50.38		-3.96		4	46.42		4.00	-27.58	peak			

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



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1		2385.320	51.95		-4.2			7.69		74.		-26	_			pea	ak		_
2		2390.000	53.01		-4.2			8.77		74.		-25				pea	ak		
3		2408.840	107.51		-4.2	20	1	03.31		74.	00	29.	31			pea	ak		

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2	1	2390.000	53.57	-	4.24	4	9.33		74	.00	-24	.67			pea	ık	
3		2415.140	106.55	-	4.18	1	02.37		74	.00	28	.37			pea	ik	

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



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No.		uency Hz)	Reading (dBuV)	Correct factor(d			esult JuV/m)	Limit (dBuV/m)	Margin (dB)		Rema	ark	
1	<u> </u>	8.700	107.49	-4.0			)3.42	74.00	29.42	1	pea	k	
2	248	3.500	55.18	-4.0	0	5	1.18	74.00	-22.82		pea	k	
3	248	6.450	52.88	-3.9	9	4	8.89	74.00	-25.11		pea	k	
4	250	0.000	50.63	-3.9	6	4	6.67	74.00	-27.33		pea	k	

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1	2	2457.		105.71	-4.			01.64	74.00	27.64		pea	ak	
2		2483.		56.33	-4.0			2.33	74.00	-21.67		pea	ak	
3		2494.		53.77	-3.			9.80	74.00	-24.20		pea		
4	2	2500.	000	48.56	-3.	96	4	4.60	74.00	-29.40		pea	ak	

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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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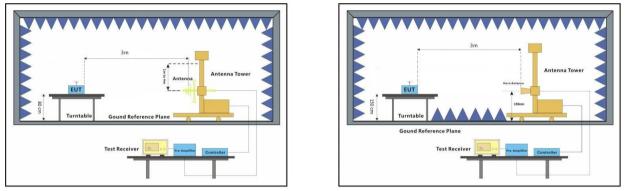
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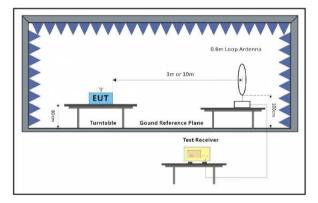
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## 7.8.1 E.U.T. Operation

Operating Enviro	onment:						
Temperature:	25 °C	Humidity:	49	% RH	Atmospheric Pressure:	1004	mbar
Test mode	mode with al tested and for rate @ 6Mbp	I modulation typ ound the data rates as is the worst o	pes. ate @ case	All data ra 1Mbps is of IEEE 80	arging and continuously tra tes for each modulation typ the worst case of IEEE 80 02.11g; data rate @ 6.5Mbp e data of worst case is rec	be have 2.11b; ps is the	been data e

#### 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.



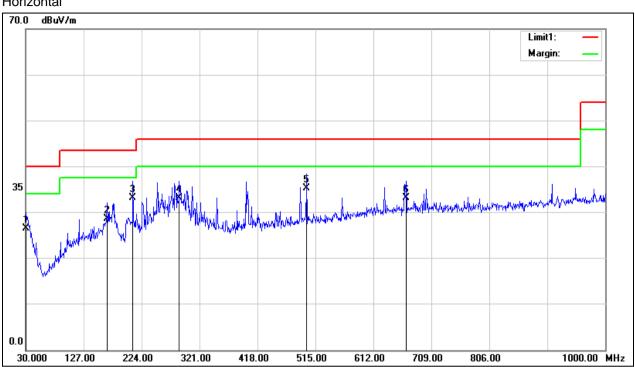
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30MHz-1GHz Horizontal



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	1.21	25.38	26.59	40.00	-13.41	200	50	QP
2	166.7700	9.72	18.84	28.56	43.50	-14.94	300	90	QP
3	209.4500	16.33	16.83	33.16	43.50	-10.34	100	62	QP
4	287.0500	12.97	20.28	33.25	46.00	-12.75	100	163	QP
5	500.4500	10.01	25.25	35.26	46.00	-10.74	100	16	QP
6	666.3200	5.92	27.24	33.16	46.00	-12.84	400	98	QP



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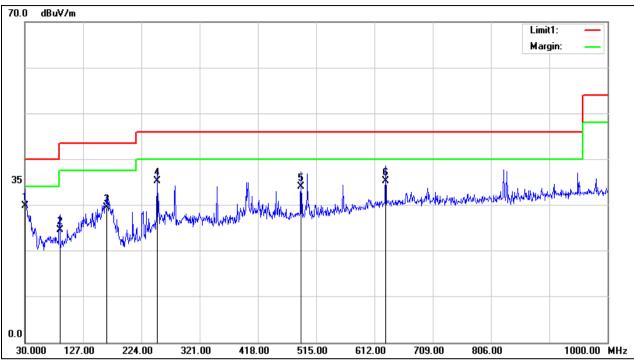
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Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.0000	3.93	25.93	29.86	40.00	-10.14	100	299	QP
2	88.2000	8.14	16.42	24.56	43.50	-18.94	100	174	QP
3	165.8000	10.65	18.91	29.56	43.50	-13.94	300	179	QP
4	250.1900	15.94	19.32	35.26	46.00	-10.74	200	77	QP
5	489.7800	8.97	25.05	34.02	46.00	-11.98	100	102	QP
6	630.4300	8.38	26.88	35.26	46.00	-10.74	400	223	QP



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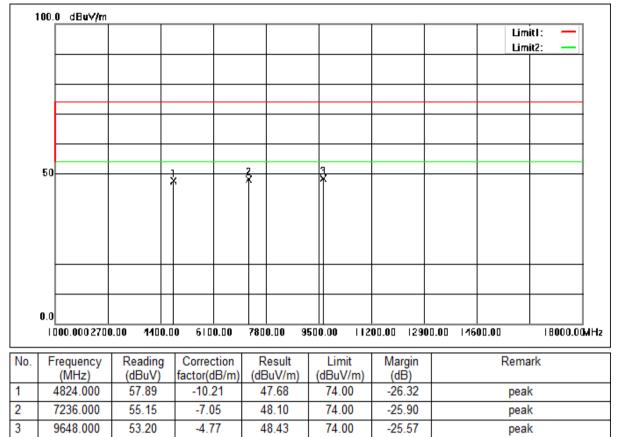
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### Above 1GHz

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





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2	Ī	7236.000 55.81		-7.0	5	4	8.76		74	.00	-25.24		peak							
3	9	9648.000	53.53		-4.7	7	4	8.76		74	.00	-25.24			peak					

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



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2	Ī	7311.000	55.12		-6.9	13	4	8.19		7	74.00	-2	5.81			р	eak			
3	9	9748.000	52.87		-4.3	0	4	8.57		1	74.00	-2	5.43			р	eak			

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



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1	4	4874.000	58.02	-10.			8.01	+"	74.		-25.				p	eak		
2	1	7311.000	55.15	-6.9	)3	4	8.22	$\uparrow$	74.	00	-25.	78				eak		
3		9748.000	53.96	-4.3	30	4	9.66		74.	00	-24.	34			p	eak		

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



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1	4924.000	57.77	-9.82	47.95	74.00	-26.05	peal	k					
2	7386.000	55.07	-6.80	48.27	74.00	-25.73	peal	k					
3	9848.000	51.66	-3.84	47.82	74.00	-26.18	peal	k					

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



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No.	F	requency	Reading	Correct		Res			Limit		Marg	in			Re	emar	k		
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2		7386.000	55.43	-6.8		48.			74.00		-25.3					peak			
3		9848.000	52.17	-3.84	4	48.	33	-	74.00	)	-25.					beak			

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VU.		(MHz)	(dBuV)	factor(d			BuV/m)	(	dBuV/m)	(dB)	)		F	tenna	IK	
1		4824.000	58.88	-10.			8.67		74.00	-25.3				peak		
2		7236.000	56.72	-7.0			9.67		74.00	-24.3				peak		
}		9648.000	53.04	-4.7	7	4	8.27		74.00	-25.7	3			peak		

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)	Rema	ark					
1	4824.000	57.59	-10.21	47.38	74.00	-26.62	peal	k					
2	7236.000	54.74	-7.05	47.69	74.00	-26.31	peal						
3	9648.000 54.48 -4		-4.77	49.71	74.00	-24.29	peal	k					

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



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1	4	1874.000	57.66		-10.			7.65			74.00		26.35	+			pea	k		
2	1	7311.000	54.61		-6.9	3	4	7.68		1	74.00	-2	26.32	2 peak						
3	9	9748.000	51.58		-4.3	0	4	7.28		7	74.00	-2	26.72		peak					

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



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No.	F	requency (MHz)	Reading (dBuV)		Correct factor(d			Result BuV/m)	(		Limit BuV/m)	Mar (dE	gin 3)			F	Rema	ırk		
1	4	4874.000	57.69		-10.			7.68		7	4.00	-26		peak						
2	1	7311.000	54.91		-6.9	3	4	7.98		7	4.00	-26	.02	peak						
3	9	9748.000	54.06		-4.3	0	4	9.76		7	4.00	-24	.24		peak					

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



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		4924.000	57.50		-9.8			7.68			4.00		.32							
		7386.000	55.56		-6.8	30	4	8.76		7	4.00	-25	.24	peak						
	9	9848.000	53.21		-3.8	34	- 4	9.37		7	4.00	-24	.63		peak					

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



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1	4	1924.000	58.42		-9.8			8.60			1.00		5.40	1		p	beak			
2	1	7386.000	55.47		-6.8	0	4	8.67		74	4.00	-25	5.33	peak						
3	9	9848.000	53.21		-3.8	4	4	9.37		74	1.00	-24	4.63		peak					

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



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1	4	4824.000	57.88		-10.2		_	7.67		74.(		-26.				F	beak			
2	1	7236.000	55.42		-7.0	15	4	8.37		74.(	00	-25.	63	peak						
3	9	9648.000	54.10		-4.7	7	4	9.33		74.(	00	-24.	67		peak					

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



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1	4	1824.000	58.58		-10.			8.37		74.		-25				peak	(		
2	1	7236.000	55.35		-7.0	5	4	8.30		74.	00	-25	.70	peak					
3	9	9648.000	53.14		-4.7	7	4	8.37		74.	00	-25	.63		peak				

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No.	Frequency Reading (MHz) (dBuV)					Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Remark			rk				
1	4	4874.000	57.49	-10.0			47.48		74.00		-26.52		peak			(			
2	ī	7311.000	55.27	-6.9	3	4	8.34		74.0	)0	-25.	66				peak	(		
3	9	9748.000	53.61	-4.3	0	4	9.31		74.0	00	-24.	69 peak							

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



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1	4	4874.000	57.35		-10.(			7.34		7	4.00	-26.66				peak				
2	1	7311.000	55.43		-6.9	3	4	8.50		7	4.00	-2	5.50				peal	ĸ		
3	9	9748.000	48.000 54.00 -4.30				4	9.70		7	4.00	-24.30			peak					

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



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lo.	Frequency Reading (MHz) (dBuV)		Correct factor(c	Correction factor(dB/m)		Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Rem		Rema	ark				
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					30	47.91				4.00	-26.09		peak						
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



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2		7386.000	55.11		-6.8			8.31	+		4.00	-25		-	peak				
3		9848.000	52.51		-3.8			8.67	+		4.00	-25					ak		

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



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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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