

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

Report No.: SHEM210600643401 Page: 1 of 69

TEST REPORT

Application No.:	SHEM2106006434CR
FCC ID:	2A2EX-LS004
Applicant:	Luxshare Electronic Technology (KunShan) Ltd.
Address of Applicant:	No.158, Jinchang Road, Jinxi Town, Kunshan City, Jiangsu Province, China
Manufacturer:	Luxshare Electronic Technology (KunShan) Ltd.
Address of Manufacturer:	No.158, Jinchang Road, Jinxi Town, Kunshan City, Jiangsu Province, China
Equipment Under Test (EU	Т):
EUT Name:	2.4G WiFi Module
Model No.:	LS004ONWNS
Trade mark:	LUXSHAREICT
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2021-06-22
Date of Test:	2021-06-25 to 2021-07-13
Date of Issue:	2021-07-14
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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Report No.: SHEM210600643401 Page: 2 of 69

Revision Record					
Version Description Date Remark					
00	Original	2021-07-14	1		

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



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Report No.: SHEM210600643401 Page: 3 of 69

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				
Item	Standard	Method	Requirement	Result
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 Average Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.2	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 11.10.3	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



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Report No.: SHEM210600643401 Page: 4 of 69

3 **Contents**

			Page
1	CC	OVER PAGE	1
2	TE	ST SUMMARY	3
3	co	ONTENTS	4
4	GE	ENERAL INFORMATION	5
56		DETAILS OF E.U.T. POWER LEVEL SETTING USING IN TEST: DESCRIPTION OF SUPPORT UNITS. MEASUREMENT UNCERTAINTY. TEST LOCATION . TEST FACILITY . DEVIATION FROM STANDARDS . ABNORMALITIES FROM STANDARD CONDITIONS. QUIPMENT LIST	
•	6.1	ANTENNA REQUIREMENT	
7	RA	ADIO SPECTRUM MATTER TEST RESULTS	11
	7.1 7.2 7.3 7.4 7.5 7.6 7.7	MINIMUM 6DB BANDWIDTH CONDUCTED AVERAGE OUTPUT POWER POWER SPECTRUM DENSITY CONDUCTED BAND EDGES MEASUREMENT CONDUCTED SPURIOUS EMISSIONS RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS RADIATED SPURIOUS EMISSIONS	
8	TE	ST SETUP PHOTOGRAPHS	69
9	EU	IT CONSTRUCTIONAL DETAILS	69



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Report No.: SHEM210600643401 Page: 5 of 69

4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.3V
Test voltage:	DC 3.3V
Antenna Gain:	Antenna 1:1.38dBi (Provided by manufacturer)
	Antenna 2:3.56dBi (Provided by manufacturer)
	Note: The device report 2 antennas and only tests antenna 2 with large antenna gain in this report
Antenna Type:	Antenna1 is PCB antenna
	Antenna2 is PCB antenna
Channel Spacing:	5MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)
	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Data Rate:	802.11b:1/2/5.5./11Mbps
	802.11g:6/9/12/18/24/36/48/54Mbps
	802.11n:MCS0-MCS7
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)	
Channel	Ant 1	Ant 1	Ant 1	
1	17	15	14	
6	17	15	14	
11	17	15	14	

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book	Acer	ZQT	NXM0QCN01031403EE876
Note Book	LENOVO	ThinkPad E430	N/A



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Report No.: SHEM210600643401 Page: 6 of 69

4.4 Measurement Uncertainty

Item	Measurement Uncertainty
Radio Frequency	8.4 x 10 ⁻⁸
Timeout	2s
Duty Cycle	0.37%
Occupied Bandwidth	3%
RF Conducted Power	0.6dB
RF Power Density	2.9dB
Conducted Spurious Emissions	0.75dB
DE Dedicted Dower	5.2dB (Below 1GHz)
RF Radiated Power	5.9dB (Above 1GHz)
	4.2dB (Below 30MHz)
Dedicted Sourious Emission Test	4.5dB (30MHz-1GHz)
Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
	5.4dB (Above 18GHz)
Temperature Test	1°C
Humidity Test	3%
Supply Voltages	1.5%
Time	3%
	Radio Frequency Timeout Duty Cycle Occupied Bandwidth RF Conducted Power RF Power Density Conducted Spurious Emissions RF Radiated Power RF Radiated Power Temperature Test Humidity Test Supply Voltages

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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Report No.: SHEM210600643401 Page: 7 of 69

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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Report No.: SHEM210600643401 Page: 8 of 69

5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
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
16	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz~1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz~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~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



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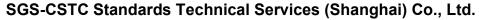
Report No.: SHEM210600643401 Page: 9 of 69

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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Report No.: SHEM210600643401 Page: 10 of 69

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 antenna1 is PCB antenna, antenna2 is PCB antenna and that uses a unique coupling to the intentional radiator. The best case gain of the antenna 1 is 1.38dBi and antenna 2 is 3.56dBi.

Antenna location: Refer to Appendix(External photo)



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Report No.: SHEM210600643401 Page: 11 of 69

7 Radio Spectrum Matter Test Results

7.1 Minimum 6dB Bandwidth

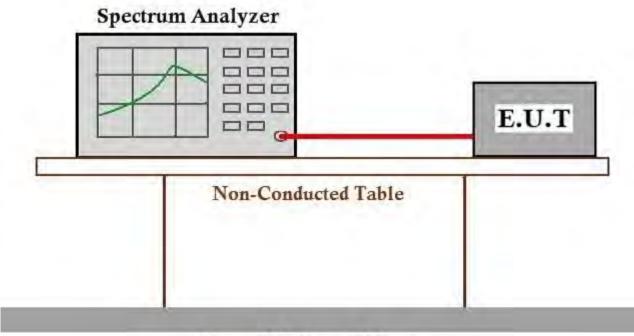
Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

7.1.1 E.U.T. Operation

Operating Environment:

Temperature:25 °CHumidity:49 % RHAtmospheric Pressure:1008 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);Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600643401



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Report No.: SHEM210600643401 Page: 12 of 69

7.2 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	
	0.25 for 25≤ hopping channels <50 1 for digital modulation 1 for ≥75 non-overlapping hopping channels 0.125 for all other frequency hopping systems	
	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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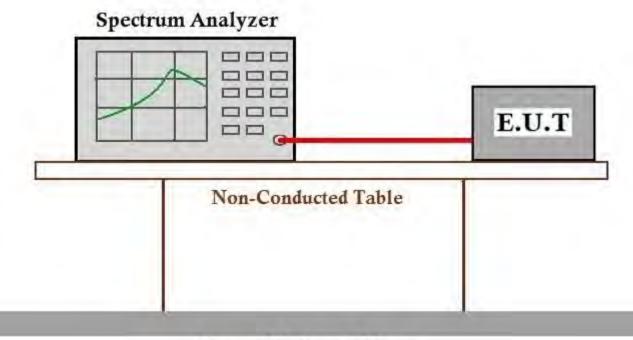


Report No.: SHEM210600643401 Page: 13 of 69

7.2.1 E.U.T. Operation

Operating Enviro	nment:	
Temperature:	25 °C Humidity: 49 % RH Atmospheric Pressure: 10	08 mbar
Test mode	a:TX mode_Keep the EUT in continuously transmitting mode with all mo types. All data rates for each modulation type have been tested and four data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mb worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IE 802.11n(HT20);Only the data of worst case is recorded in the report.	nd the ps is the

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600643401



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Report No.: SHEM210600643401 Page: 14 of 69

7.3 Power Spectrum Density

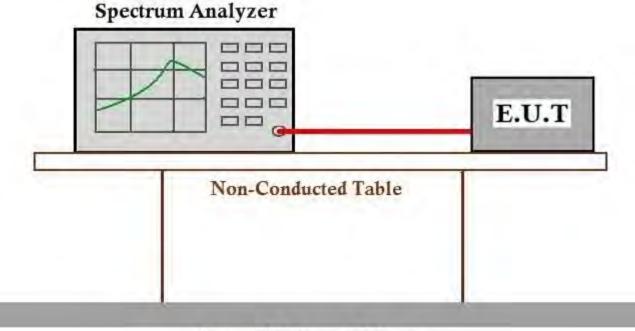
Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.3
Limit:	\leq 8dBm in any 3 kHz band during any time interval of continuous
	transmission

7.3.1 E.U.T. Operation

Operating Environment:

Temperature:25 °CHumidity:49 % RHAtmospheric Pressure:1008 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);Only the data of worst case is recorded in 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 SHEM210600643401



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Report No.: SHEM210600643401 Page: 15 of 69

7.4 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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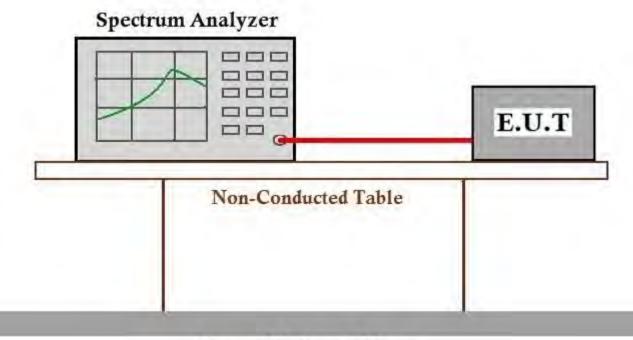


Report No.: SHEM210600643401 Page: 16 of 69

7.4.1 E.U.T. Operation

Operating Enviro	onment:				
Temperature:	25 °C	Humidity:	49	% RH	Atmospheric Pressure: 1008 mbar
Test mode	a:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20);Only the data of worst case is recorded in the report.		ype have been tested and found the EE 802.11b; data rate @ 6Mbps is the 6.5Mbps is the worst case of IEEE		

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600643401



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Report No.: SHEM210600643401 Page: 17 of 69

7.5 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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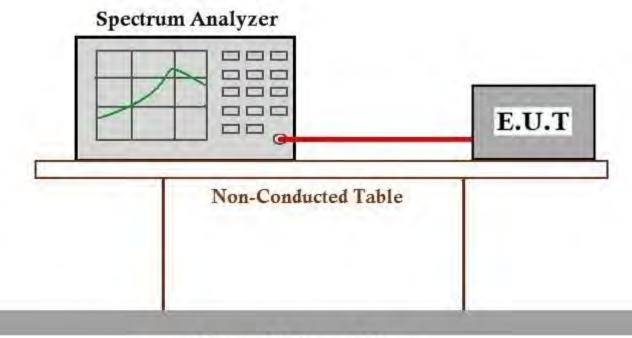


Report No.: SHEM210600643401 Page: 18 of 69

7.5.1 E.U.T. Operation

Operating Enviro	nment:	
Temperature:	25 °C Humidity: 49 % RH Atmospheric Pressure: 1008	mbar
Test mode	a:TX mode_Keep the EUT in continuously transmitting mode with all modulati 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 worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20);Only the data of worst case is recorded in the report.)

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210600643401



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Report No.: SHEM210600643401 Page: 19 of 69

7.6 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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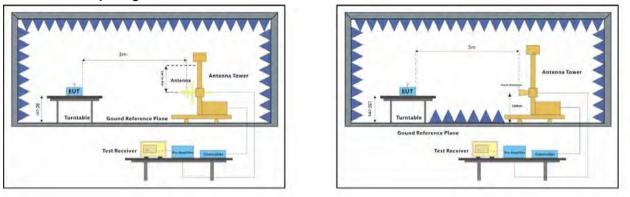


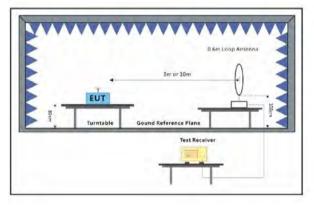
Report No.: SHEM210600643401 Page: 20 of 69

7.6.1 E.U.T. Operation

Operating Enviro	nment:	
Temperature:	25 °C Humidity: 49 % RH Atmospheric Pressure: 1008	mbar
Test mode	a:TX mode_Keep the EUT in continuously transmitting mode with all modulat 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 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.	e the

7.6.2 Test Setup Diagram







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Report No.: SHEM210600643401 Page: 21 of 69

7.6.3 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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Report No.: SHEM210600643401 Page: 22 of 69

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		10.000 2324	.00 2338.1] 0 2352.	.00 23	366.00 2		1.00 240	8.00	2422		2150.00	MHz
No.	F	requency	Reading	Correct	ion	Result	Limit	Margin			Rem	hark	
NU.		(MHz)	(dBuV)	factor(dE	3/m) (dBuV/m)	(dBuV/m)	(dB)			Ken		
1		2387.140	34.46	30.29		64.75	74.00	-9.25		peak			
2		2390.000	27.37	30.31		57.68	74.00	-16.32		peak			
3		2413.250	79.72	30.41	1	110.13	74.00	36.13		peak			

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



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Report No.: SHEM210600643401 Page: 23 of 69

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No.	F	requency (MHz)	Reading (dBuV)		Correct factor(d			esult BuV/m)		nit V/m)	Ma (d	argin IB)				Ren	nark		
1	1	2385.530	17.69		30.2			7.98			.00		6.02	T	AVG					
2	1	2390.000	16.41		30.3	31	4	6.72		54	.00	-7	.28		AVG					
3	1	2411.220	76.42		30.4	0	1	06.82		54	.00	52	2.82		AVG					

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



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Report No.: SHEM210600643401 Page: 24 of 69

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	23	B10.0002324	1.00 2338.	00 235	2.00	235	6.00 8	238	0.00 239	14.00 240	8.1	00 242	2.00		2150.00	MHz
No.	F	requency	Reading	Correc			esult		Limit	Margin			F	Rem	ark	
		(MHz)	(dBuV)	factor(o			BuV/m)	((dBuV/m)	(dB)						
1		2357.460	29.88	30.1			0.04		74.00	-13.96				pea		
2		2390.000	28.27	30.3		<u> </u>	8.58		74.00	-15.42				pea	ak	
3	1	2410.870	69.34	30.4	10	9	9.74		74.00	25.74				pea	ak	

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



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Report No.: SHEM210600643401 Page: 25 of 69

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	2310.00	02324	1.00 23	3 8 .0	0 235	2.00) 238	i6.00	23	80.00	239	1.00	240	8.0	0 212	2.00		245	0.00	MHz
No.	Freque (MH	ency z)	Readir (dBuV		Correct factor(d			Result BuV/n		Lin (dBu)		Ma (d	irgin IB)				Rem	ark		
1	2356.		16.30		30.1			46.46		54.			.54	+			AV	G		
2	2390.	000	15.87		30.3	1	4	46.18		54.	00	-7	.82				AV	G		
3	2411.	220	65.99		30.4	0	9	96.39		54.	00	42	2.39				AV	G		

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

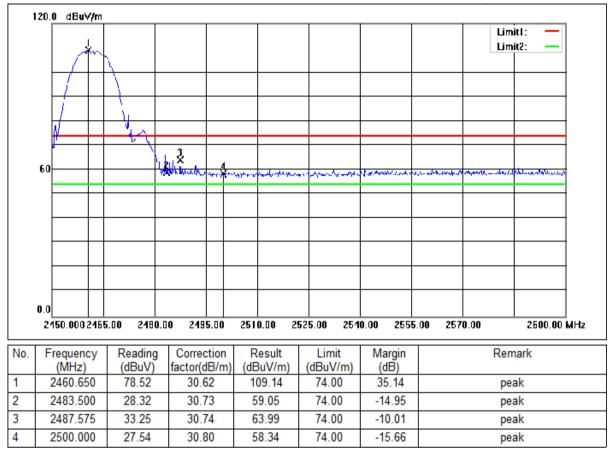


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Report No.: SHEM210600643401 Page: 26 of 69



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



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Report No.: SHEM210600643401 Page: 27 of 69

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	2150.0002165	5.00 2180.0	10 2195.00	2510.00 2	525.00 254	0.00 2555.	00 2570.00	2500.00 MHz					
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	emark					
1	2461.250	75.01	30.63	105.64	54.00	51.64	A	AVG					
2	2483.500	18.31	30.73	49.04	54.00	-4.96	ŀ	AVG					
3	2487.500	17.36	30.74	48.10	54.00	-5.90	ļ	AVG					
4	2500.000	15.89	30.80	46.69	54.00	-7.31	ŀ	AVG					

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



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Report No.: SHEM210600643401 Page: 28 of 69

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No.	F	requent (MHz)	су	Reading (dBuV)	9	Correct factor(c			lesult BuV/m)		Limit dBuV/m)	Margin (dB)			Re	mark	
1		2460.72	25	69.51		30.6			00.13	+	74.00	26.13	+		p	eak	
2		2483.50)0	27.71		30.7	73	5	8.44	\uparrow	74.00	-15.56	+			eak	
3	:	2486.60)0	29.86		30.7	74	6	0.60	\uparrow	74.00	-13.40	+			eak	
4		2500.00)0	27.32		30.8	30	5	8.12		74.00	-15.88			р	eak	

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



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Report No.: SHEM210600643401 Page: 29 of 69

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No.	Frequency (MHz)	/ Reading (dBuV)			Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	2461.250		30.6		96.71	54.00	42.71		AVG
2	2483.500		30.7		47.15	54.00	-6.85		AVG
3	2486.600		30.7		47.13	54.00	-6.87		AVG
4	2500.000	15.91	30.8	0	46.71	54.00	-7.29		AVG

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

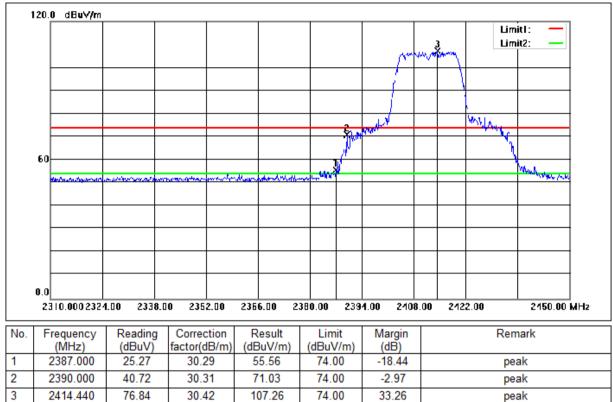


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Report No.: SHEM210600643401 Page: 31 of 69

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	2310.0002324	1.00 2338.0	10 2352.00	2356.00 2	380.00 239	1.00 2108.	.00 242	2.00	2450.00 MHz	
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Rem	ark	
1	2388.680	16.26	30.30	46.56	54.00	-7.44		AV	G	
2	2390.000	20.42	30.31	50.73	54.00	-3.27		AV	G	
3	2414.020	67.38	30.41	97.79	54.00	43.79		AV	G	

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

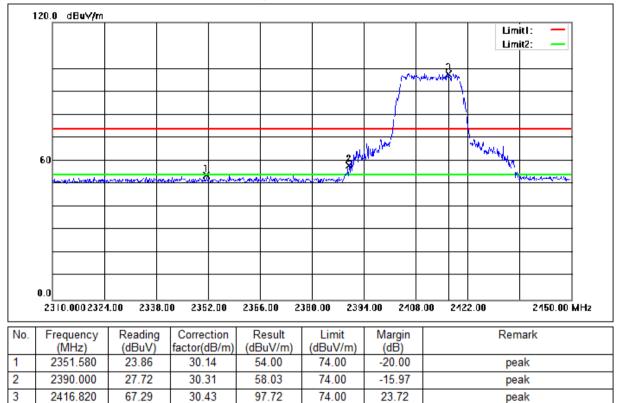


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Report No.: SHEM210600643401 Page: 32 of 69



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Report No.: SHEM210600643401 Page: 33 of 69

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		88.540	11.15		30.3			1.45		54.0)	-12	2.55				AV	G		
	239	90.000	13.30		30.3	31	4	3.61		54.0)	-1(0.39				AV	G		
	241	18.360	58.20		30.4	3	8	8.63		54.0)	34	.63				AV	G		

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

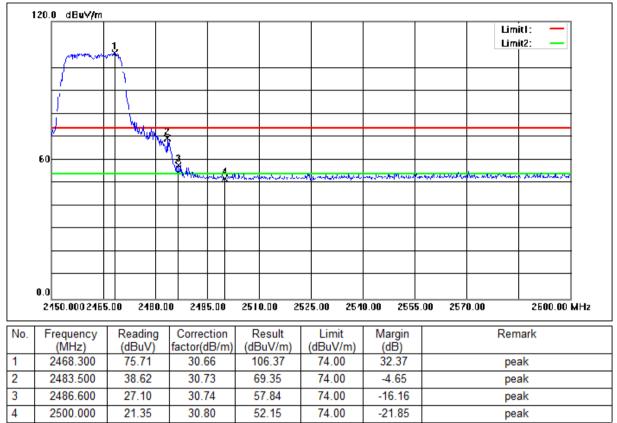


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Report No.: SHEM210600643401 Page: 34 of 69



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



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Report No.: SHEM210600643401 Page: 35 of 69

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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
1	2461.250	66.57	30.63	97.20	54.00	43.20	A	VG
2	2483.500	19.08	30.73	49.81	54.00	-4.19	A	VG
3	2484.500	17.01	30.73	47.74	54.00	-6.26	Δ	VG
4	2500.000	10.61	30.80	41.41	54.00	-12.59	A	\VG

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

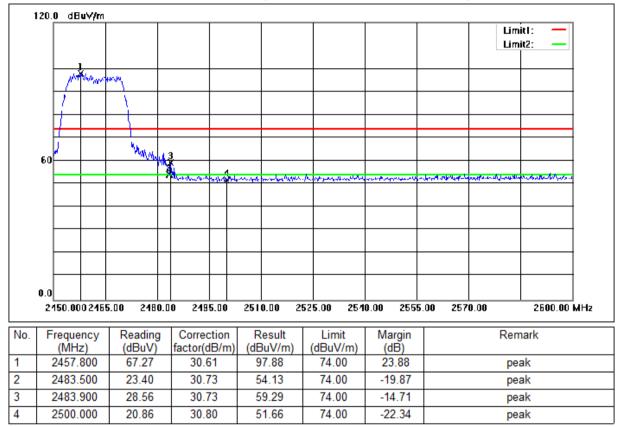


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Report No.: SHEM210600643401 Page: 36 of 69



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Report No.: SHEM210600643401 Page: 37 of 69

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No.	Freq (N	luency (Hz)	Reading (dBuV)	Correction factor(dB/n		Limit (dBuV/m)	Margin (dB)		Remark
1		57.200	58.19	30.61	88.80	54.00	34.80		AVG
2		33.500	13.32	30.73	44.05	54.00	-9.95		AVG
3	248	34.500	12.50	30.73	43.23	54.00	-10.77		AVG
4	250	00.00	10.31	30.80	41.11	54.00	-12.89		AVG

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

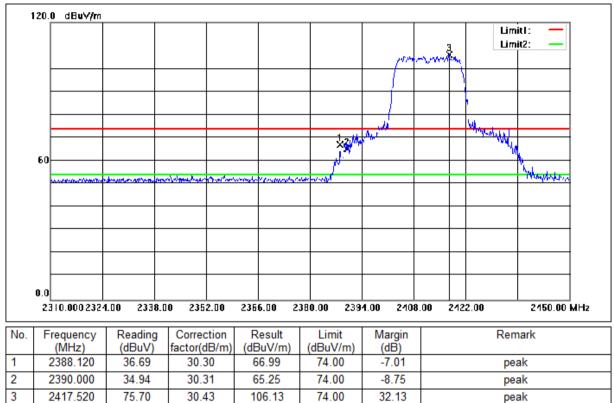


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Report No.: SHEM210600643401 Page: 38 of 69



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Report No.: SHEM210600643401 Page: 39 of 69

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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	2388.680	18.39	30.30	48.69	54.00	-5.31		AVG
2	2390.000	20.21	30.31	50.52	54.00	-3.48		AVG
3	2413.740	66.08	30.41	96.49	54.00	42.49		AVG

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



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Report No.: SHEM210600643401 Page: 40 of 69

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	2310.0002324	1.00 2338.0	0 2352.00	2356.00 23	380.00 239	 1.00 2108	.00 2122.00	2150.00 MHz
	•							
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	2388.960	27.96	30.30	58.26	74.00	-15.74		peak
2	2390.000	26.61	30.31	56.92	74.00	-17.08		peak
3	2405.340	66.46	30.38	96.84	74.00	22.84		peak

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



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Report No.: SHEM210600643401 Page: 41 of 69

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	2310.0002324	1.00 2338.0	10 2352.00	2356.00 2	380.00 239	1.00 2108	.00 2122.00	2150.00 MHz
lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)		Limit (dBuV/m)	Margin (dB)		Remark
	2388.540	12.42	30.30	42.72	54.00	-11.28		AVG
	2390.000	13.43	30.31	43.74	54.00	-10.26		AVG
}	2409.120	57.37	30.39	87.76	54.00	33.76		AVG

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

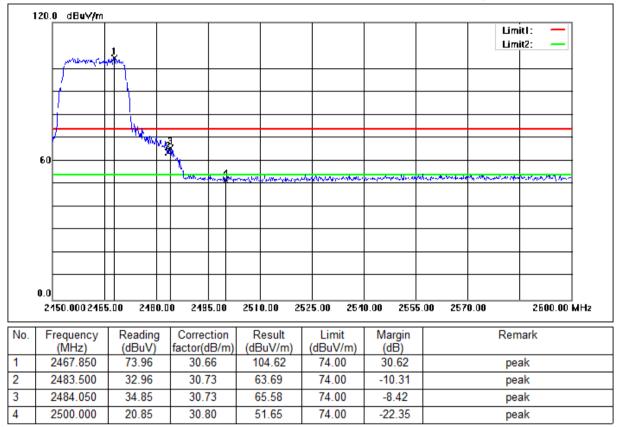


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Report No.: SHEM210600643401 Page: 42 of 69



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



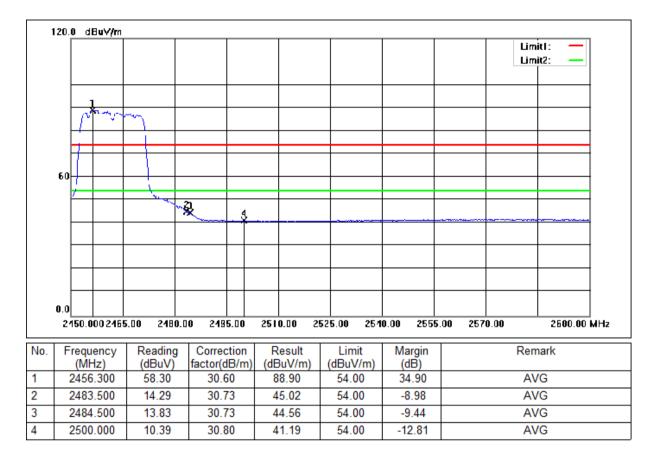
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Report No.: SHEM210600643401 Page: 43 of 69

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



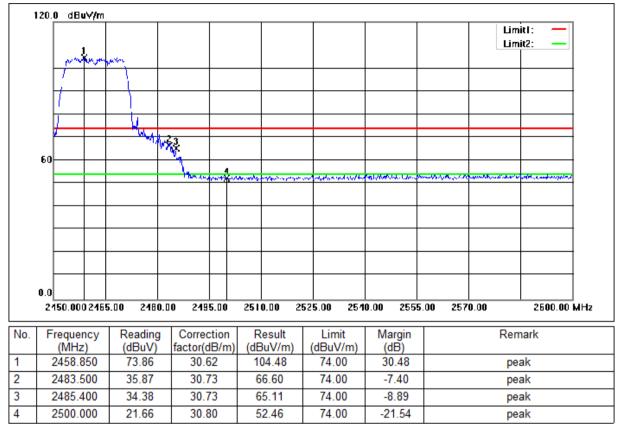


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Report No.: SHEM210600643401 Page: 45 of 69

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1	2459.3		64.84		30.62		5.46	54.00		1.46	AVG			
2	2483.5		19.15		30.73	-	9.88	54.00		4.12	AVG			
3	2485.2		17.11		30.73		7.84	54.00		5.16		AV		
4	2500.0	00	10.69		30.80	4	1.49	54.00	-1	2.51		AV	′G	

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Report No.: SHEM210600643401 Page: 46 of 69

7.7 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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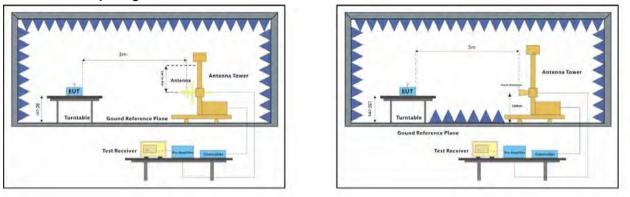


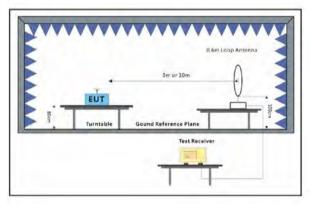
Report No.: SHEM210600643401 Page: 47 of 69

7.7.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	25 °C Humidity: 49 % RH Atmospheric Pressure: 10	008 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 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11n(HT20);Only the data of worst case is recorded in the report.					

7.7.2 Test Setup Diagram







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



Report No.: SHEM210600643401 Page: 48 of 69

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

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

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

3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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



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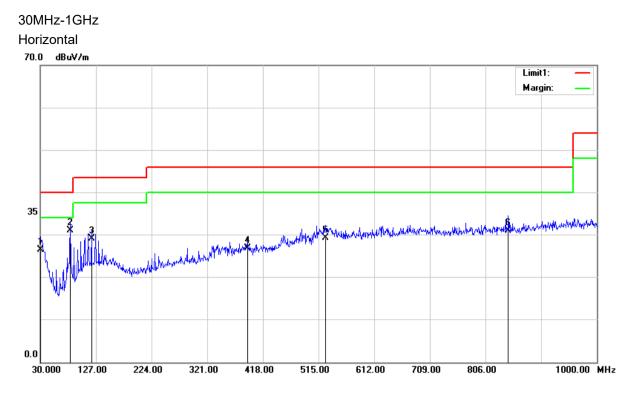
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Report No.: SHEM210600643401 Page: 49 of 69



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	0.59	25.93	26.52	40.00	-13.48	101	360	QP
2	82.3800	15.20	15.82	31.02	40.00	-8.98	201	6	QP
3	119.2400	10.04	19.14	29.18	43.50	-14.32	201	278	QP
4	390.8400	3.44	23.36	26.80	46.00	-19.20	100	49	QP
5	526.6400	3.79	25.55	29.34	46.00	-16.66	201	88	QP
6	845.7700	2.99	28.06	31.05	46.00	-14.95	201	26	QP



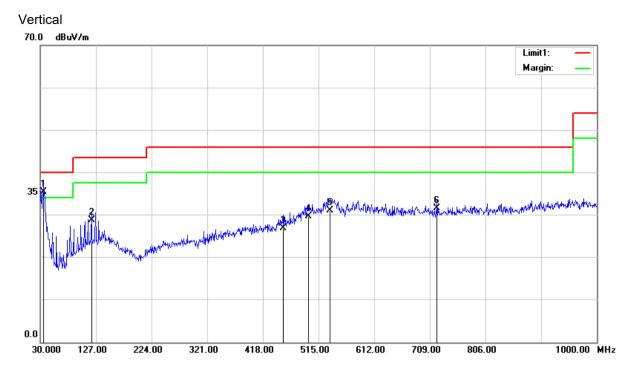
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Report No.: SHEM210600643401 Page: 50 of 69



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	35.8200	12.91	22.61	35.52	40.00	-4.48	100	24	QP
2	119.2400	9.69	19.14	28.83	43.50	-14.67	100	345	QP
3	452.9200	2.57	24.36	26.93	46.00	-19.07	100	248	QP
4	497.5400	4.45	25.19	29.64	46.00	-16.36	100	248	QP
5	534.4000	5.37	25.65	31.02	46.00	-14.98	145	36 0	QP
6	721.6100	4.03	27.49	31.52	46.00	-14.48	100	90	QP



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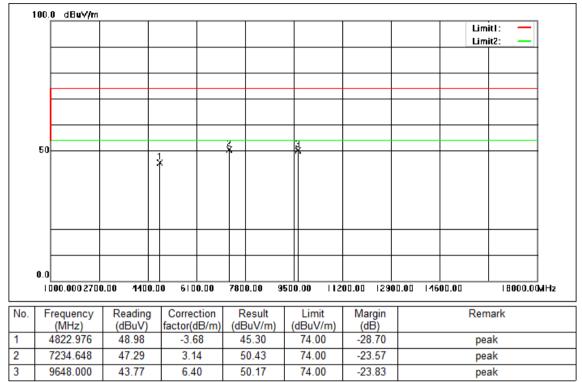
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Report No.: SHEM210600643401 Page: 51 of 69

Above 1GHz

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





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Report No.: SHEM210600643401 Page: 52 of 69

peak

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lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
	4824.000	45.98	-3.67	42.31	74.00	-31.69	-	eak
	7236.000	44.59	3.15	47.74	74.00	-26.26	p	eak

74.00

-22.84

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



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Report No.: SHEM210600643401 Page: 53 of 69

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	7	311.000	43.69	3.27	7	- 4	6.96		74.00	-27.04				pea	ık	

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



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Report No.: SHEM210600643401 Page: 54 of 69

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-т	7311.000	44.25	3.2	7	1	7.52		74.00	-26	.48			peak	

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



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Report No.: SHEM210600643401 Page: 55 of 69

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		7386.000	46.97		3.4	-		0.37			4.00		3.63				pea			
	9	9848.000	43.28		6.5	2	4	9.80		7	4.00	-24	.20				pea	ak		

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



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Report No.: SHEM210600643401 Page: 56 of 69

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2	7	7386.000	45.25		3.4	0	4	8.65		7	4.00	-25	.35				peak		
3	9	848.000	42.58		6.5	2	4	9.10		7	4.00	-24	.90				peak		

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



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Report No.: SHEM210600643401 Page: 57 of 69

peak

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	- 4	824.000	44.58	-3.6	7	4	0.91		74.00	-33.09		pe	ak	
	7	236.000	44.92	3.1	5	4	8.07		74.00	-25.93		pe	eak	

74.00

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



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Report No.: SHEM210600643401 Page: 58 of 69

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).	Fr	equency (MHz)	Reading (dBuV)	Correct factor(d			esult BuV/m)	(Limit dBuV/m)	Marg (dB)	in)		R	Remar	ĸ	
	- 4	824.000	44.78	-3.6	7	4	1.11		74.00	-32.8	39	peak				
	7	236.000	46.83	3.1	5	4	9.98		74.00	-24.0)2	2 peak				

74.00

-22.69

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



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9748.000

41.92

6.46

48.38

Report No.: SHEM210600643401 Page: 59 of 69

peak

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I	0.0 10	00.000 2700	.00 1100.	00 610	0.00	780	0.00 9	500	.00 12	00.00 129	00.00 14	1600.00		18000.00	MHz
).	Fi	equency (MHz)	Reading (dBuV)	Corre factor(lesult BuV/m)	((Limit (BuV/m)	Margin (dB)			Rem	ark	
	4	874.000	44.49	-3.			0.98		74.00	-33.02	2 peak				
	7	311.000	43.79	3.2	7	4	7.06		74.00	-26.94	04 peak				

74.00

-25.62

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



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9748.000

43.59

6.46

50.05

Report No.: SHEM210600643401 Page: 60 of 69

peak

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0.0																		
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Frequen (MHz)	су	Reading (dBuV)		Correct factor(d			esult BuV/m)	(nit V/m)	Ma (d	rgin B)			Re	mark		
4874.0		44.31		-3.5	1	4	0.80		74	00	-33	.20						
7311.0	00	43.65		3.2	7 1	4	6.92		74	00	-27	.08	8 peak					

74.00

-23.95

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



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-22.64

74.00

Report No.: SHEM210600643401 Page: 61 of 69

peak

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	IŌ	00.0002700	.00 1100.	00 610	0.00	780	0.00 9!	500	00 12	00.00 129	00.00 148	500.00	18000.00	MHz
).	F	equency (MHz)	Reading (dBuV)	Corre factor(lesult BuV/m)		Limit BuV/m)	Margin (dB)		Ren	nark	
	4	924.000	44.35	-3.			1.00		74.00	-33.00	peak			
	7	386.000	44.04	3.4	.0	- 4	7.44		74.00	-26.56	peak			

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



9848.000

44.84

6.52

51.36

3

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9848.000

42.97

6.52

49.49

Report No.: SHEM210600643401 Page: 62 of 69

peak

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).	Fr	equency (MHz)	Reading (dBuV)	Correc factor(d			esult 3uV/m)		Limit BuV/m)	Marg (dB)	in)		R	emark	
		924.000	45.39	-3.3	5		2.04		74.00	-31.9					
	7	386.000	44.28	3.40		4	7.68	1	74.00	-26.3	6.32 peak				

74.00

-24.51

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



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-23.37

74.00

Report No.: SHEM210600643401 Page: 63 of 69

peak

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).	F	requency	Reading		Correc		R	esult		Limit	Marg	gin			Rem	nark	
\downarrow		(MHz)	(dBuV)		factor(d			BuV/m)	(0	dBuV/m)	(dE	3)	· · · · · ·				
	- 4	4824.000	44.57		-3.6	7	4	0.90		74.00	-33.	10					
T	7	7236.000	44.39		3.1	5	4	7.54		74.00	-26.	46	peak				

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



9648.000

44.23

6.40

50.63

3

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9648.000

44.20

6.40

50.60

Report No.: SHEM210600643401 Page: 64 of 69

peak

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	1000.000) 2700).0 0 11 0)	D.00	610	0.00	780	0.00	950	0.00	112	00.00	1290	0.00	1460	0.00	I	1800	0.00MH;
).	Frequer (MHz		Reading (dBuV)		Correct factor(d			esult 3uV/m)	(Lir dBu	nit V/m)	Maı (dl	rgin B)				Rem	ark	
	4824.0		44.35		-3.6			0.68		74.	00		.32				pea	ık	
T	7236.000 45.61 3.15		5	48.76 74.00				-25	.24	peak									

74.00

-23.40

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



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9748.000

43.40

6.46

49.86

Report No.: SHEM210600643401 Page: 65 of 69

peak

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).	Fr	equency	Reading	Correctio		esult	Limit	Margin		Remark
+		(MHz) 874.000	(dBuV) 44.25	factor(dB/ -3.51		BuV/m) 0.74	(dBuV/m) 74.00	(dB) -33.26		peak
I		311.000	43.89	3.27		7.16		-26.84		peak

74.00

-24.14

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



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9748.000

42.68

6.46

49.14

Report No.: SHEM210600643401 Page: 66 of 69

peak

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	0.0																				
	1000.000	2700	.00 110	0.0	0 610	0.00	780	0.00	950	0.	.00	20	0.00	290	0.00	146	00.00		18	000.00	MHz
No.	Frequence (MHz)	су	Reading (dBuV)	9	Correct factor(d			esult BuV/m)		Limit BuV/m)		Marg (dB)	in)				Ren	nark		
1	4874.00		44.12		-3.5			0.61			74.00		-33.3					ре	ak		
2	7311.00	00	44.15		3.2	7	4	7.42			74.00		-26.5	8				pe	ak		

74.00

-24.86

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



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9848.000

44.12

6.52

50.64

Report No.: SHEM210600643401 Page: 67 of 69

peak

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	4	924.000	44.34		3.35	4	0.99		74.00	-33.01		pe	ak	
	7	386.000	44.59	1	3.40	- 4	7.99		74.00	-26.01		pe	ak	

74.00

-23.36

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



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Report No.: SHEM210600643401 Page: 68 of 69

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No.	F	requency	Reading		Correc			Result			Limit		Ma	rgin				Ren	nark		
1	4	(MHz) 4924.000	(dBuV) 44.50)	factor(c -3.3		<u> </u>	3uV/m 11.15	וי	<u> </u>	BuV/ 74.00	-		B) 2.85	+			pe	ak		
2		7386.000	45.22		3.4			18.62	+		74.00			5.38	+				ak		
3	9	9848.000	42.72		6.5	2	4	19.24		7	74.00)	-24	1.76					ak		

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



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Report No.: SHEM210600643401 Page: 69 of 69

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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