FCC TEST REPORT

For

SCALA Digital Technology(Ningbo) Co., LTD

AMD R1505G Player

Test Model: SMPA-R1505G

Prepared for	:	SCALA Digital Technology(Ningbo) Co., LTD
Address	:	No. 7 Hong Da Road, Hong Tang Industrial Zone A, Jiang Bei District, Ning Bo City, China
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	:	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel	:	(+86)755-82591330
Fax	:	(+86)755-82591332
Web	:	www.LCS-cert.com
Mail	:	webmaster@LCS-cert.com
Date of receipt of test sample	:	August 16, 2021
Number of tested samples	:	2
Sample No.	:	220217151A-1, 220217151A-2
Serial number	:	Prototype
Date of Test	:	August 16, 2021 ~ February 17, 2022
Date of Report	:	February 18, 2022

FCC TEST REPORT
FCC CFR 47 PART 15E (15.407)

Report Reference No.	:	**LCS220217151AED**
Date of Issue.....	:	February 18, 2022
Testing Laboratory Name.....	:	**Shenzhen LCS Compliance Testing Laboratory Ltd.**
Address.....	:	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Testing Location/ Procedure.....	:	Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name.....	:	**SCALA Digital Technology(Ningbo) Co., LTD**
Address.....	:	No. 7 Hong Da Road, Hong Tang Industrial Zone A, Jiang Bei District, Ning Bo City, China
Test Specification		
Standard.....	:	FCC CFR 47 PART 15E (15.407)
Test Report Form No.....	:	LCSEMC-1.0
TRF Originator.....	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF.....	:	Dated 2011-03

EUT Description.....	:	**AMD R1505G Player**
Trade Mark.....	:	SCALA
Test Model.....	:	SMPA-R1505G
Ratings.....	:	Input: 12V⎓5.0A For AC Adapter Input: 100-240V~, 50/60Hz, 1.3A For AC Adapter Output: 12V⎓5.0A 60.0W
Result	:	**Positive**

Supervised by:	**Compiled by:**	**Approved by:**
Kevin Huang	Jin Wang	Gavin Liang
Kevin Huang/ Administrator	Jin Wang/ Technique principal	Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : **LCS220217151AED**	February 18, 2022 Date of issue

EUT.....	:	AMD R1505G Player
Test Model.....	:	SMPA-R1505G
Applicant.....	:	**SCALA Digital Technology(Ningbo) Co., LTD**
Address.....	:	No. 7 Hong Da Road, Hong Tang Industrial Zone A, Jiang Bei District, Ning Bo City, China
Telephone.....	:	/
Fax.....	:	/
Manufacturer.....	:	**SCALA Digital Technology(Ningbo) Co., LTD**
Address.....	:	No. 7 Hong Da Road, Hong Tang Industrial Zone A, Jiang Bei District, Ning Bo City, China
Telephone.....	:	/
Fax.....	:	/
Factory.....	:	**SCALA Digital Technology(Ningbo) Co., LTD**
Address.....	:	No. 7 Hong Da Road, Hong Tang Industrial Zone A, Jiang Bei District, Ning Bo City, China
Telephone.....	:	/
Fax.....	:	/

Test Result:	**Positive**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
000	February 18, 2022	Initial Issue	Gavin Liang

TABLE OF CONTENTS

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: AMD R1505G Player
Test Model	: SMPA-R1505G
Power Supply	: Input: 12V⎓5.0A For AC Adapter Input: 100-240V~, 50/60Hz, 1.3A For AC Adapter Output: 12V⎓5.0A 60.0W
Hardware Version	: V1.0
Software Version	: /
Bluetooth	:
Frequency Range	: 2402MHz ~ 2480MHz
Chanel Number	: 79 channels for Bluetooth V4.0(DSS) 40 channels for Bluetooth V4.0 (DTS)
Chanel Spacing	: 1MHz for Bluetooth V4.0 (DSS) 2MHz for Bluetooth V4.0 (DTS)
Modulation Type	: GFSK, π/4-DQPSK, 8-DPSK for Bluetooth V4.0(DSS) GFSK for Bluetooth V4.0 (DTS)
Bluetoth Version	: V4.0
Antenna Description	: External Antenna, 2.0dBi (max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz ~ 2462MHz
Channel Spacing	: 5MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: External Antenna, 2.0dBi (max.)
5.2G WLAN	:
Frequency Range	: 5180MHz-5240MHz
Channel Number	: 4 channels for 20MHz bandwidth(5180MHz-5240MHz) 2 channels for 40MHz bandwidth(5190MHz~5230MHz) 1 channels for 80MHz bandwidth(5210MHz)
Modulation Type	: IEEE 802.11a/n/ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: External Antenna, 2.0dBi (max.)
5.8G WLAN	:
Frequency Range	: 5745MHz-5825MHz
Channel Number	: 5 channels for 20MHz bandwidth(5745MHz-5825MHz)

		2 channels for 40MHz bandwidth(5755MHz~5795MHz)
		1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	:	IEEE 802.11a/n/ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	:	External Antenna, 2.0dBi (max.)

1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
XINSU GLOBAL ELECTRONIC CO., LIMITED	POWER SUPPLY	XSG1205000	---	FCC

1.3. External I/O Port

I/O Port Description	Quantity	Cable
Power Port	1	N/A
Power Ext Port	1	N/A
HDMI Port	2	N/A
AJ45 Port	2	N/A
AUX Port	1	N/A
Headset Port	1	N/A
USB Port	4	N/A
COM Port	1	N/A

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
		200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worst case.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was determined to be IEEE 802.11ac VHT40 (Low Channel).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was determined to be IEEE 802.11ac VHT40 (Low Channel).

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

IEEE 802.11a Mode: 6 Mbps, OFDM.

IEEE 802.11n HT20 Mode: MCS0, OFDM.

IEEE 802.11n HT40 Mode: MCS0, OFDM.

IEEE 802.11ac VHT20 Mode: MCS0

IEEE 802.11ac VHT40 Mode: MCS0, OFDM.

IEEE 802.11ac VHT80 Mode: MCS0, OFDM.

1.8. Channel List and Frequency

Frequency Band	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
5180~5240MHz	36	5180	44	5220
	38	5190	46	5230
	40	5200	48	5240
	42	5210	/	/
For IEEE 802.11a/n HT20/ac VHT20, Channel 36, 40 and 48 were tested. For IEEE 802.11n HT40/ac VHT40, Channel 38 and 46 were tested. For IEEE 802.11ac VHT80, Channel 42 was tested.				

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to FCC's request, Test Procedure KDB789033 D02 General UNII Test Procedures New Rules v02r01 and KDB 662911 D01 Multiple Transmitter Output v02r01 are required to be used for this kind of FCC 15.407 UII device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.407 under the FCC Rules Part 15 Subpart E.

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmits condition.

3.2. EUT Exercise Software

The system was configured f testing in a continuous transmits condition and change test channels by software (Realtek) provided by application.

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart E			
FCC Rules	Description of Test	Result	Remark
§15.407(a)	26dB Bandwidth	Compliant	Appendix D.1
§2.1047	99% Occupied Bandwidth	Compliant	N/A
§15.407(a)	Maximum Conducted Output Power	Compliant	Appendix D.2
§15.407(a)	Power Spectral Density	Compliant	Appendix D.3
§15.209, §15.407(b)	Emissions in Restricted Bands	Compliant	Appendix D.4
§15.407(g)	Frequency Stability	Compliant	Appendix D.5
/	On Time and Duty Cycle	/	Only reported; Appendix D.6
§15.209, §15.407(b)	Radiated Emissions	Compliant	Note 1
§15.207(a)	AC Conducted Emissions	Compliant	Note 1
§15.203	Antenna Requirements	Compliant	Note 1
§15.407 §2.1091	RF Exposure	Compliant	Note 2

Remark:
1. Note 1 – Test results inside test report;
2. Note 2 –Test results in other test report (RF report);

5. TEST RESULT

5.1. Radiated Emissions Measurement

5.1.1. Standard Applicable

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
13.36-13.41			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
\2\ Above 38.6

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz (68.2dBuV/m at 3m).

In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (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

5.1.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

Receiver Parameter	Setting
Attenuation	Auto

Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.1.3. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 1.0 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

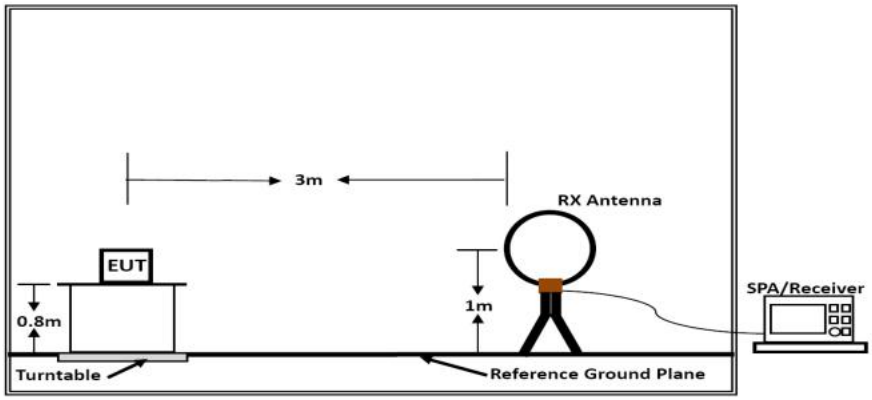
--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.

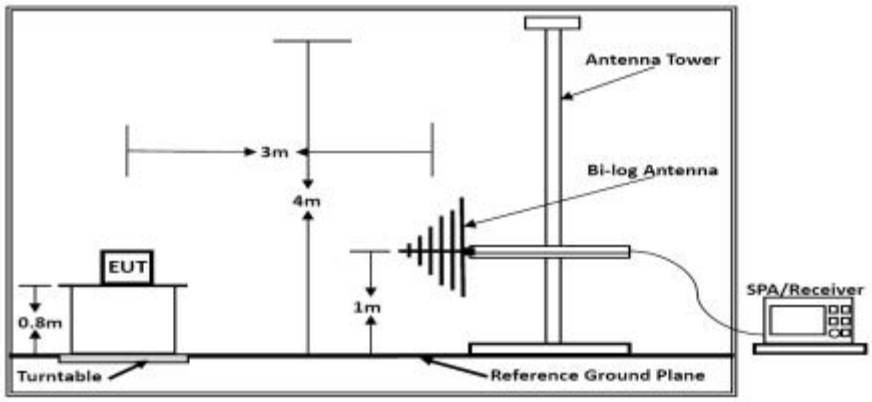
--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

5.1.4. Test Setup Layout



Below 30MHz



Below 1GHz

5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.6. Results of Radiated Emissions (9 KHz~30MHz)

Temperature	23.5℃	Humidity	52.3%
Test Engineer	Bill zhu	Configurations	IEEE 802.11a

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dB)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

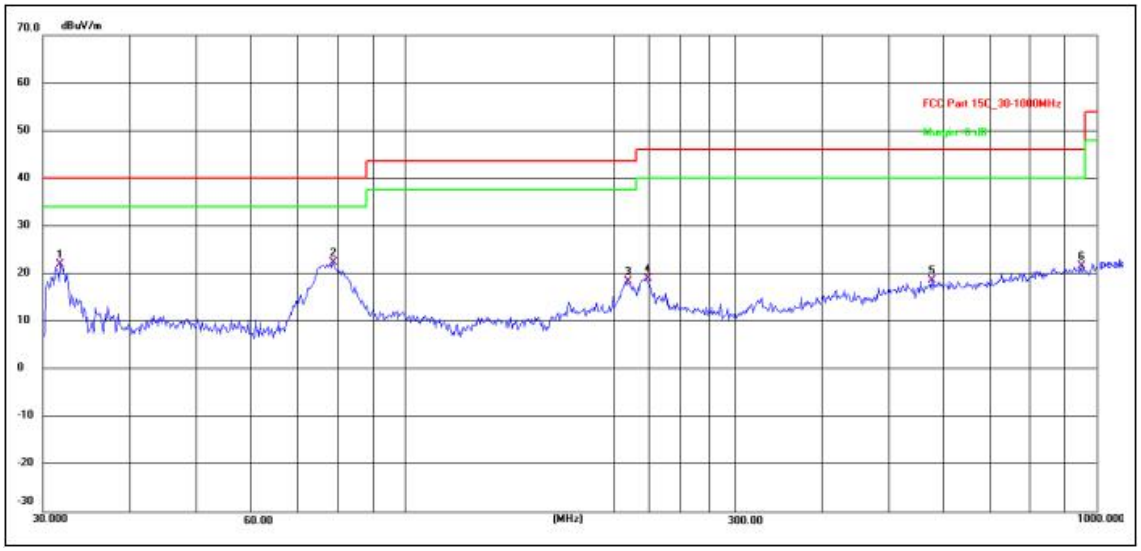
Limit line = specific limits (dBuV) + distance extrapolation factor.

5.1.7. Results of Radiated Emissions (30MHz~1GHz)

Temperature	23.5℃	Humidity	52.3%
Test Engineer	Bill zhu	Configurations	IEEE 802.11a

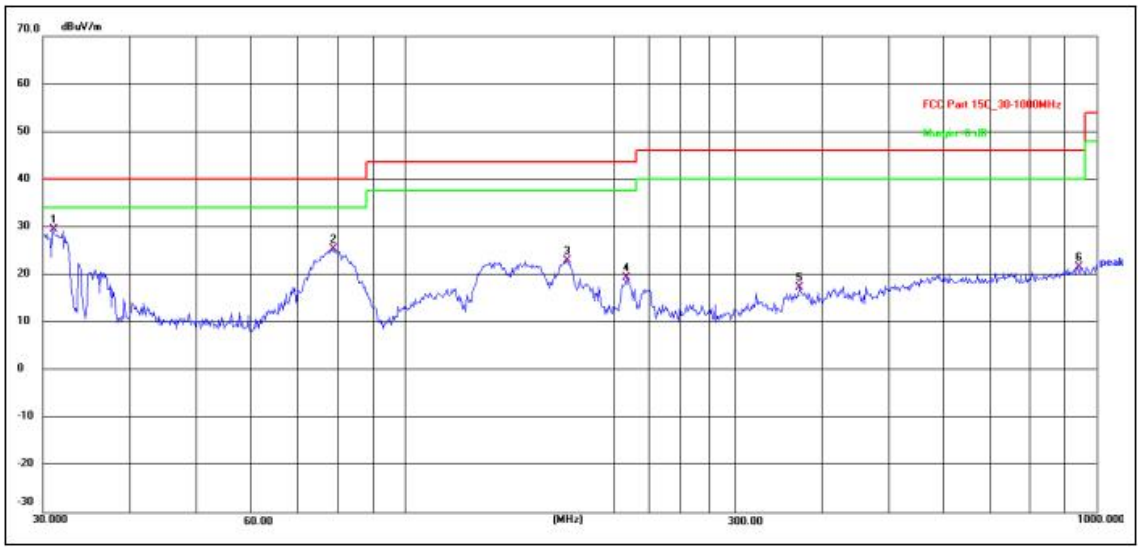
Test result for IEEE 802.11ac VHT40 (Low Channel)

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	31.8427	40.22	-18.22	22.00	40.00	-18.00	QP
2 *	78.6888	42.26	-19.83	22.43	40.00	-17.57	QP
3	210.0482	35.59	-17.13	18.46	43.50	-25.04	QP
4	223.7334	35.69	-16.78	18.91	46.00	-27.09	QP
5	578.6699	29.41	-10.80	18.61	46.00	-27.39	QP
6	952.0937	29.42	-7.84	21.58	46.00	-24.42	QP

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1 *	31.0706	47.71	-18.31	29.40	40.00	-10.60
2	78.6888	45.22	-19.83	25.39	40.00	-14.61
3	171.3926	42.36	-19.42	22.94	43.50	-20.56
4	209.3129	36.52	-17.15	19.37	43.50	-24.13
5	372.0045	32.07	-14.74	17.33	46.00	-28.67
6	938.8326	29.58	-8.06	21.52	46.00	-24.48

Note:

(1). Pre-scan all modes and recorded the worst case results in this report IEEE 802.11ac VHT40 (Low Channel).

2). Emission level (dBuV/m) = 20 log Emission level (uV/m). Margin= Level-limit;

3). Factor=Antenan Factor+Cable Loss-Pre Factor;Level=Reading+Factor.

5.2. Power Line Conducted Emissions

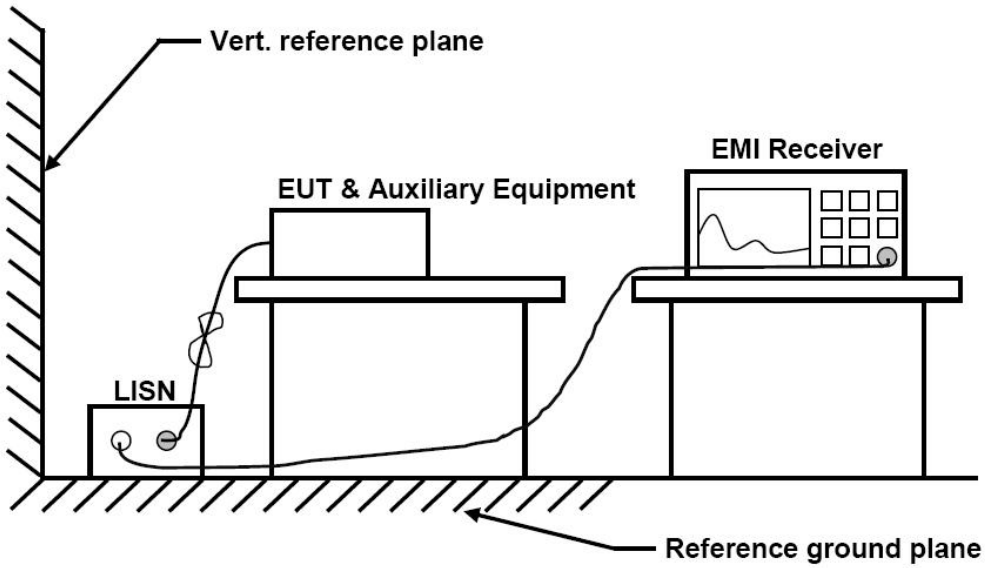
5.2.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

5.2.2 Block Diagram of Test Setup



5.2.3 Test Results

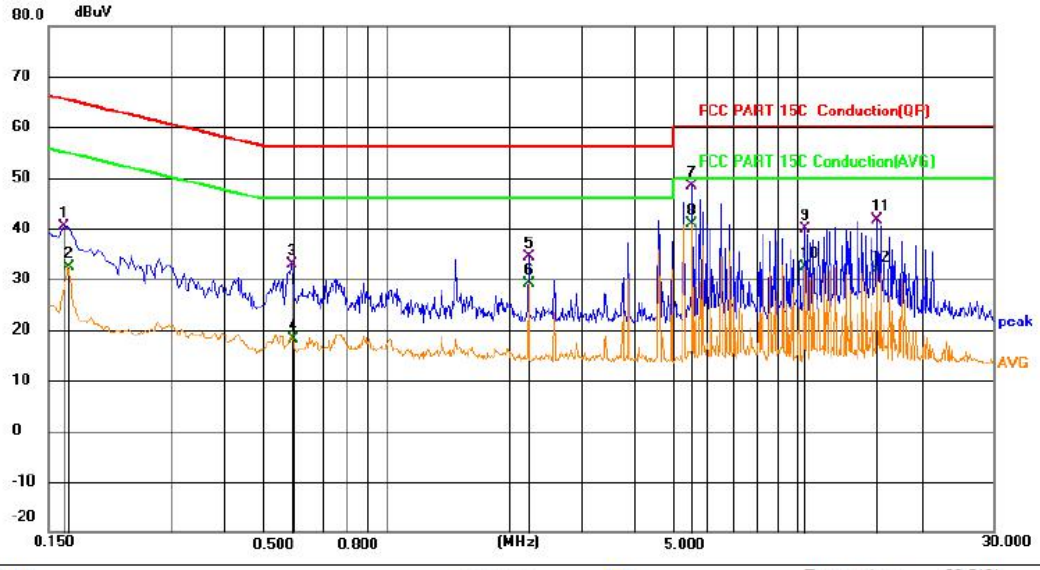
Temperature	22.5℃	Humidity	53.7%
Test Engineer	Bill zhu	Configurations	IEEE 802.11a

PASS.

The test data please refer to following page.

AC Conducted Emission of charge from adapter mode @ AC 120V/60Hz @ IEEE 802.11ac VHT40 (Low Channel) (worst case)

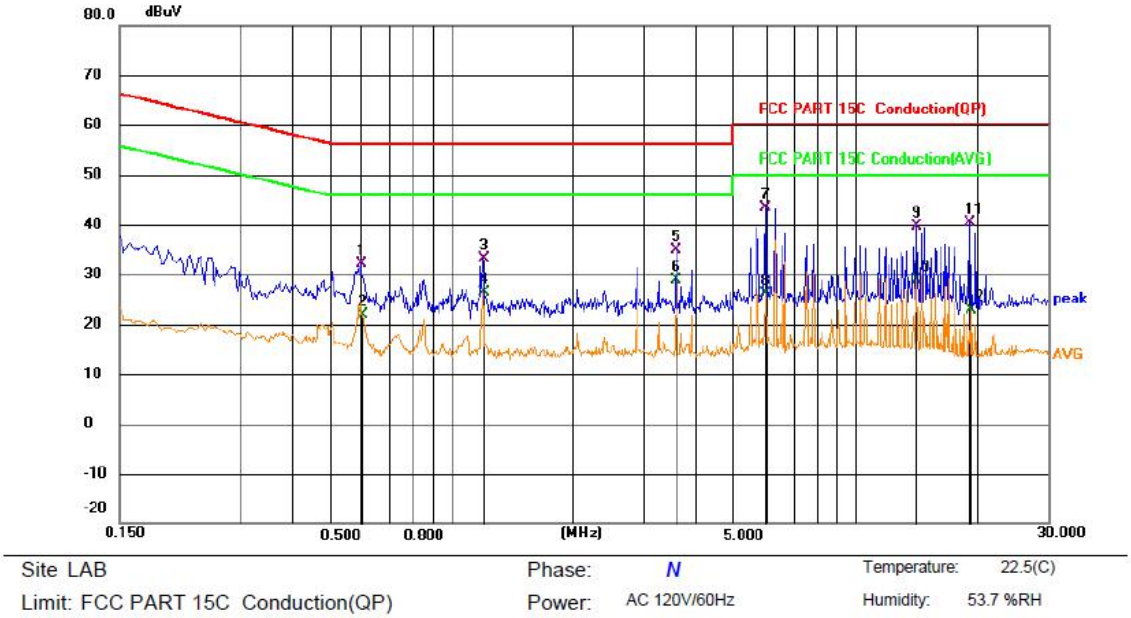
Line



Site LAB Phase: L1 Temperature: 22.5(C)
Limit: FCC PART 15C Conduction(QP) Power: AC 120V/60Hz Humidity: 53.7 %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1636	20.74	19.76	40.50	65.28	-24.78	QP
2		0.1681	12.52	19.76	32.28	55.05	-22.77	AVG
3		0.5866	13.13	19.81	32.94	56.00	-23.06	QP
4		0.5916	-1.73	19.81	18.08	46.00	-27.92	AVG
5		2.2201	14.51	19.85	34.36	56.00	-21.64	QP
6		2.2201	9.27	19.85	29.12	46.00	-16.88	AVG
7		5.5456	28.41	19.93	48.34	60.00	-11.66	QP
8	*	5.5456	20.85	19.93	40.78	50.00	-9.22	AVG
9		10.4236	19.78	20.13	39.91	60.00	-20.09	QP
10		10.4236	12.34	20.13	32.47	50.00	-17.53	AVG
11		15.5761	20.99	20.60	41.59	60.00	-18.41	QP
12		15.5761	11.12	20.60	31.72	50.00	-18.28	AVG

Neutral



Site LAB Phase: N Temperature: 22.5(C)
Limit: FCC PART 15C Conduction(QP) Power: AC 120V/60Hz Humidity: 53.7 %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.5955	12.42	19.79	32.21	56.00	-23.79	QP
2		0.6011	2.19	19.79	21.98	46.00	-24.02	AVG
3		1.1941	13.26	19.79	33.05	56.00	-22.95	QP
4		1.1941	6.52	19.79	26.31	46.00	-19.69	AVG
5		3.5926	15.11	19.88	34.99	56.00	-21.01	QP
6		3.5926	8.96	19.88	28.84	46.00	-17.16	AVG
7	*	5.9821	23.38	19.93	43.31	60.00	-16.69	QP
8		5.9821	6.32	19.93	26.25	50.00	-23.75	AVG
9		14.2081	19.15	20.49	39.64	60.00	-20.36	QP
10		14.2081	8.27	20.49	28.76	50.00	-21.24	AVG
11		19.2121	19.60	20.80	40.40	60.00	-19.60	QP
12		19.3516	2.13	20.79	22.92	50.00	-27.08	AVG

****Note: Pre-scan all modes and recorded the worst case results in this report IEEE 802.11ac VHT40 (Low Channel).*

Result = Reading + Correct, Margin = Result – Limit.

6. LIST OF MEASURING EQUIPMENTS

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRVS	100444	2021-06-21	2022-06-20
2	Power Sensor	R&S	NRV-Z81	100458	2021-06-21	2022-06-20
3	Power Sensor	R&S	NRV-Z32	10057	2021-06-21	2022-06-20
4	Test Software	Tonscend	JS1120-2	/	N/A	N/A
5	RF Control Unit	Tonscend	JS0806-2	N/A	2020-11-17	2021-11-16
6	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2020-11-17	2021-11-16
7	DC Power Supply	Agilent	E3642A	N/A	2020-11-26	2021-11-25
8	EMI Test Software	AUDIX	E3	/	N/A	N/A
9	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2021-06-21	2022-06-20
10	Positioning Controller	MF	MF7082	MF78020803	2021-06-21	2022-06-20
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-07-25	2024-07-24
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-07-25	2024-07-24
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-07-01	2024-06-30
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2020-09-20	2023-09-19
15	Broadband Preamplifier	SCHWARZBECK	BBV9745	9719-025	2021-06-21	2022-06-20
16	EMI Test Receiver	R&S	ESR 7	101181	2021-06-21	2022-06-20
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2020-11-17	2021-11-16
18	Broadband Preamplifier	/	BP-01M18G	P190501	2021-06-21	2022-06-20
19	6dB Attenuator	/	100W/6dB	1172040	2021-06-21	2022-06-20
20	3dB Attenuator	/	2N-3dB	/	2020-11-17	2021-11-16
21	EMI Test Receiver	R&S	ESPI	101840	2021-06-21	2022-06-20
22	Artificial Mains	R&S	ENV216	101288	2021-06-21	2022-06-20
23	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2021-06-21	2022-06-20

7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

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