



Report No.: FCC 1902047-02 File reference No.: 2019-03-05

Applicant: Shenzhen Geniatech Inc., Ltd.

Product: Enjoy TV

Model No.: APC390R, ATV390R

Trademark: N/A

Test Standards: FCC Part 15.247

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10, FCC Part 15.247 for the

evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: March 05, 2019

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site Listed with Federal Communications commission (FCC)

Registration Number:744189 For 3m Anechoic Chamber

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Shenzhen Geniatech Inc., Ltd.

Address: 18F, GDC Building, No 9th, Gaoxin Middle 3rd Road, Nanshan, Shenzhen, China

Telephone: -Fax: --

1.3 Description of EUT

Product: Enjoy TV

Manufacturer: Shenzhen Geniatech Inc., Ltd.

Address: 18F, GDC Building, No 9th, Gaoxin Middle 3rd Road, Nanshan, Shenzhen, China

Model Number: APC390R Additional Model Number: ATV390R

Type of Modulation GFSK (Bluetooth BLE)

Frequency range 2402-2480MHz Frequency Selection By software

Channel Number 40 Input Voltage: DC5V

Power Adapter Model: TEKA012-0502000UK;

Input: 100-240V~50/60Hz 0.35A Max; Output: DC5V,2A

Only One antenna is used Antenna position: 7J1

Antenna type: Integral antenna

Antenna gain: 2dBi

1.4 Submitted Sample: 1 Samples

The report refers only to the sample tested and does not apply to the bulk.

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1.5 Test Duration 2019-02-19 to 2019-03-01

Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer

Terry Tang The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2018-06-22	2019-06-21
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2018-06-22	2019-06-21
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2018-06-22	2019-06-21
Ultra Broadband ANT	R&S	HL562	100157	2018-06-18	2019-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2018-06-22	2019-06-21
Loop Antenna	EMCO	6507	00078608	2018-06-25	2019-06-24
Spectrum	R&S	FSIQ26	100292	2018-06-22	2019-06-21
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2018-06-25	2019-06-24
Horn Antenna	Horn Antenna R&S		9120D-631	2018-08-24	2019-08-23
Power meter	Anritsu	ML2487A	6K00003613	2018-08-22	2019-08-21
Power sensor	Anritsu	MA2491A	32263	2018-08-22	2019-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2019-07-03
9*6*6 Anechoic			N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2018-06-22	2019-06-21
EMI Test Receiver	RS	ESH3	860904/006	2018-06-22	2019-06-21
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2018-06-22	2019-06-21
Spectrum	HP/Agilent	E4407B	MY50441392	2018-03-27	2019-03-26
Spectrum	RS	FSP	1164.4391.38	2019-01-20	2020-01-19
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2018-05-24	2019-05-23
RF Cable	Zhengdi	7m		2018-03-17	2019-03-16
RF Switch	EM	EMSW18	060391	2018-06-22	2019-06-21
Pre-Amplifier	Schwarebeck	BBV9743	#218	2018-06-22	2019-06-21
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2018-08-05	2019-08-04
LISN	SCHAFFNER	NNB42	00012	2019-01-08	2020-01-07

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3.0 **Technical Details**

3.1 **Summary of test results**

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2)	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b3)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit:	PASS	Complies

3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247; ANSI C63.10-2013

4.0 **EUT Modification**

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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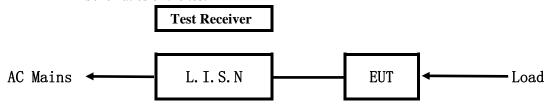
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5.Power Line Conducted Emission Test

5.1 Schematics of the test

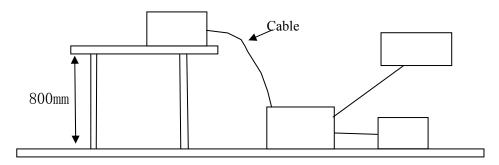


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15 MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	ice Manufacturer			FCC ID
Enjoy	TV	Shenzhen Geniatech Inc., Ltd.	APC390R, ATV390R	ZJU-F19AF3

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device Manufacturer		Model	Rating		

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207 and 15.107

Frequency	Class A Lim	its (dB µ V)	Class B Limits (dB µ V)		
(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0	
$5.00 \sim 30.00$	73.0	60.0	60.0	50.0	

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

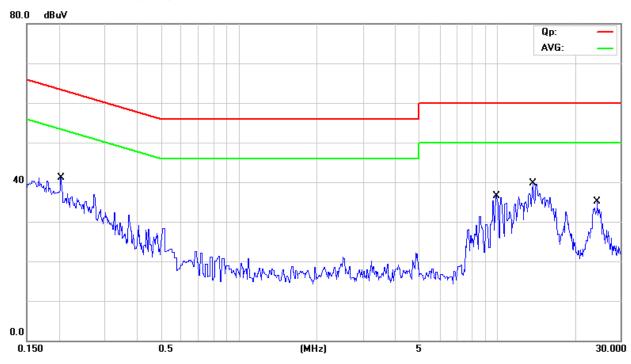
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Bluetooth Transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Mk.	Freq.	Measure- ment	Limit	Over	
		MHz	dBuV	dBuV	dB	Detector
1		0.2040	32.60	63.45	-30.85	QP
2		0.2040	1.10	53.45	-52.35	AVG
3		9.9221	29.30	60.00	-30.70	QP
4		9.9221	-1.60	50.00	-51.60	AVG
5	*	13.7744	32.40	60.00	-27.60	QP
6		13.7744	2.50	50.00	-47.50	AVG
7		24.3890	29.00	60.00	-31.00	QP
8		24.3890	1.20	50.00	-48.80	AVG

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

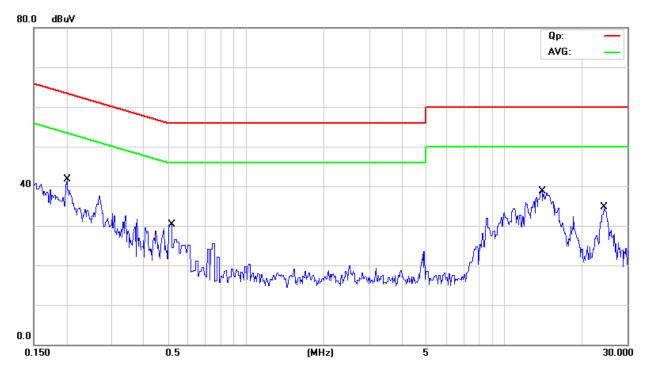
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Bluetooth Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No. Mł	k. Freq.	Measure- ment	Limit	Over	
	MHz	dBuV	dBuV	dB	Detector
1	0.2020	35.90	63.53	-27.63	QP
2	0.2020	3.00	53.53	-50.53	AVG
3	0.5113	28.00	56.00	-28.00	QP
4	0.5113	1.20	46.00	-44.80	AVG
5 *	13.9424	32.90	60.00	-27.10	QP
6	13.9424	7.30	50.00	-42.70	AVG
7	24.4106	26.70	60.00	-33.30	QP
8	24.4106	1.60	50.00	-48.40	AVG

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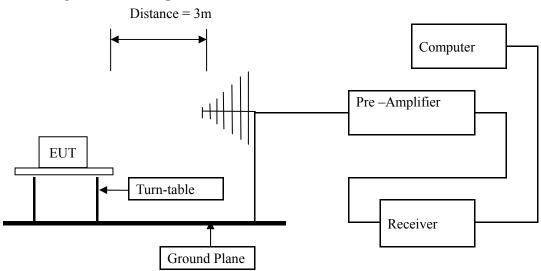
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6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup



- 6.2 Configuration of The EUT
 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.

The report refers only to the sample tested and does not apply to the bulk.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the higher limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

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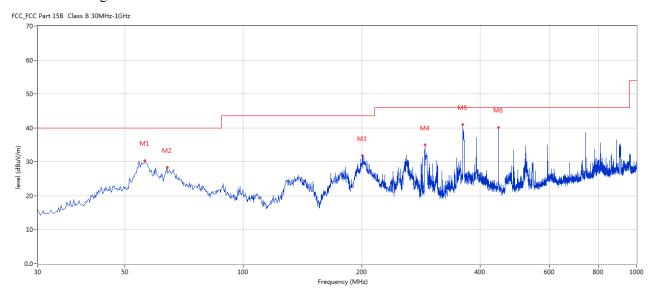
Test result General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Test Figure:



No.	Frequen	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	cy (MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)		
))	(dB)					
1	56.183	30.40	-12.07	40.0	-9.60	Peak	201.00	200	Н	Pass
2	63.942	28.39	-13.32	40.0	-11.61	Peak	288.00	200	Н	Pass
3	200.920	31.80	-13.44	43.5	-11.70	Peak	160.00	100	Н	Pass
4	289.895	35.02	-11.22	46.0	-10.98	Peak	74.00	100	Н	Pass
5	361.900	40.98	-9.50	46.0	-5.02	Peak	133.00	100	Н	Pass
6	445.299	40.17	-8.00	46.0	-5.83	Peak	360.00	200	Н	Pass

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Test result General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

Results: Pass

Test Figure:

No.	Frequen	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	cy (MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)		
))	(dB)					
1	54.971	37.31	-11.77	40.0	-2.69	Peak	347.00	100	V	Pass
2	64.184	35.59	-13.37	40.0	-4.41	Peak	85.00	100	V	Pass
3	148.310	33.20	-17.16	43.5	-10.30	Peak	329.00	100	V	Pass
4	289.895	33.77	-11.22	46.0	-12.23	Peak	237.00	100	V	Pass
5	361.900	38.37	-9.50	46.0	-7.63	Peak	360.00	200	V	Pass
6	445.299	41.07	-8.00	46.0	-4.93	Peak	360.00	200	V	Pass

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Operation Mode: Transmitting under Low Channel (2402MHz)

	0	, ,	
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
4804		H/V	74(Peak)/ 54(AV)
7206		H/V	74(P ak)/ 54(AV)
9608		H/V	74(Peak)/ 54(AV)
12010		H/V	74(Peak)/ 54(AV)
14412		H/V	74(Peak)/ 54(AV)
16814		H/V	74(Peak)/ 54(AV)
19216		H/V	74(Peak)/ 54(AV)
21618		H/V	74(Peak)/ 54(AV)
24020		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

Operation Mode: Transmitting under Middle Channel (2440MHz)

	9	· · · · · · · · · · · · · · · · · · ·	
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
4880		H/V	74(Peak)/ 54(AV)
7320		H/V	74(Peak)/ 54(AV)
9760		H/V	74(Peak)/ 54(AV)
12200		H/V	74(Peak)/ 54(AV)
14640		H/V	74(Peak)/ 54(AV)
17080		H/V	74(Peak)/ 54(AV)
19520		H/V	74(Peak)/ 54(AV)
21960		H/V	74(Peak)/ 54(AV)
24400		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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Operation Mode: Transmitting under High Channel (2480MHz)

	0 0		
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
4960		H/V	74(Peak)/ 54(AV)
7440		H/V	74(Peak)/ 54(AV)
9920		H/V	74(Peak)/ 54(AV)
12400		H/V	74(Peak)/ 54(AV)
14880		H/V	74(Peak)/ 54(AV)
17360		H/V	74(Peak)/ 54(AV)
19840		H/V	74(Peak)/ 54(AV)
22320		H/V	74(Peak)/ 54(AV)
24800		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

^{2.} Remark "---" means that the emissions level is too low to be measured

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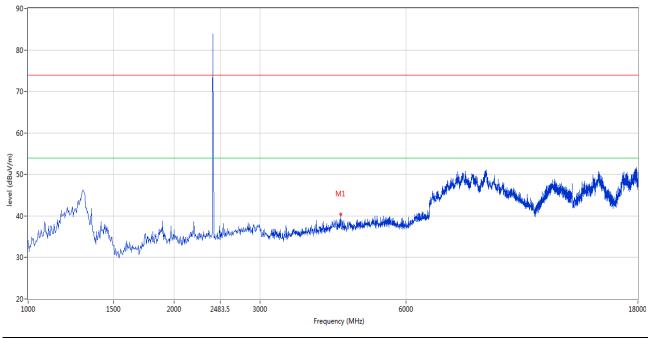
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Please refer to the following test plots for details:

Low Channel: Vertical

FCC Part 15B Class B 1GHz-18GHz - 2



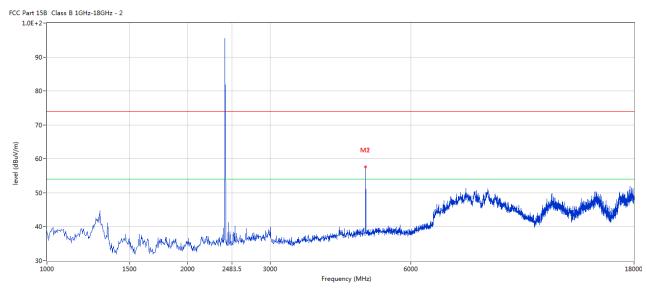
	No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
Ī	1	4403.399	40.41	2.01	74.0	-33.59	Peak	14.00	100	V	Pass

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Low Channel: Horizontal



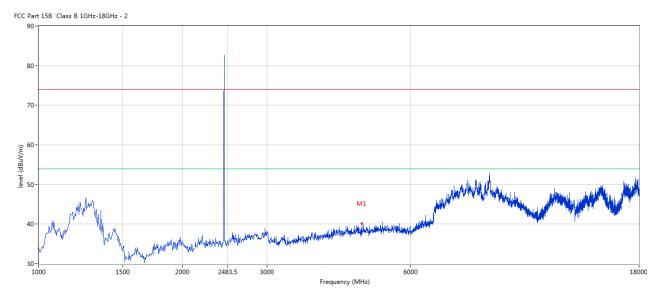
No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)		
))	(dB)					
1	4804.018	57.66	3.12	74.0	-16.34	Peak	188.00	100	Н	Pass
2	4804.018	45.39	3.12	54.0	-8.61	AV	188.00	100	Н	Pass

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Middle Channel: Vertical



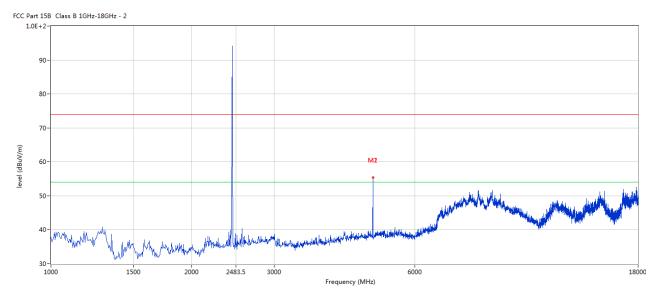
No.).	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)		
))	(dB)					
1		4734.816	40.16	2.96	74.0	-33.84	Peak	343.00	100	V	Pass

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Middle Channel: Horizontal



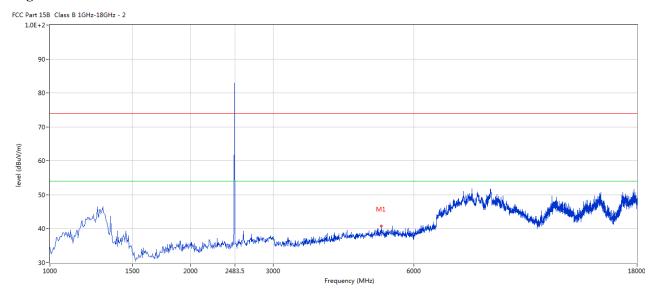
No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)		
))	(dB)					
1	4879.280	55.44	3.20	74.0	-18.56	Peak	183.00	100	Н	Pass
2	4879.280	43.26	3.20	54.0	-10.74	AV	183.00	100	Н	Pass

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High Channel: Vertical



	No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)		
))	(dB)					
-	1	5112.972	40.76	3.79	74.0	-33.24	Peak	253.00	100	V	Pass

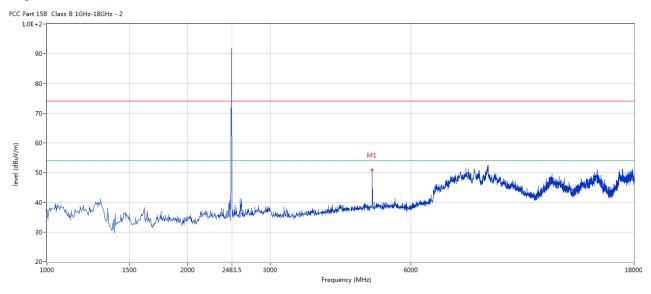
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High Channel: Horizontal



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)		
))	(dB)					
1	4960.010	50.86	3.36	74.0	-23.14	Peak	185.00	100	Н	Pass

Note: for the radiated emissions above 18G, it is the floor noise.

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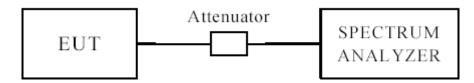
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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = \max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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6dB BW

oub b vi							
EUT		Enjo	oy TV	Mod	lel		APC390R
Mode		Keep Tr	ansmitting	Input Voltage			120V~
Temperat	ature 24		deg. C, Hu		dity		56% RH
Channel	Channel Frequency (MHz)		6 dB Bandwidth (kHz)		Minimum Limit (kHz)		Pass/ Fail
Low		2402	715		0.5		Pass
Middle		2440	715			0.5	Pass
High		2480	721		0.5		Pass

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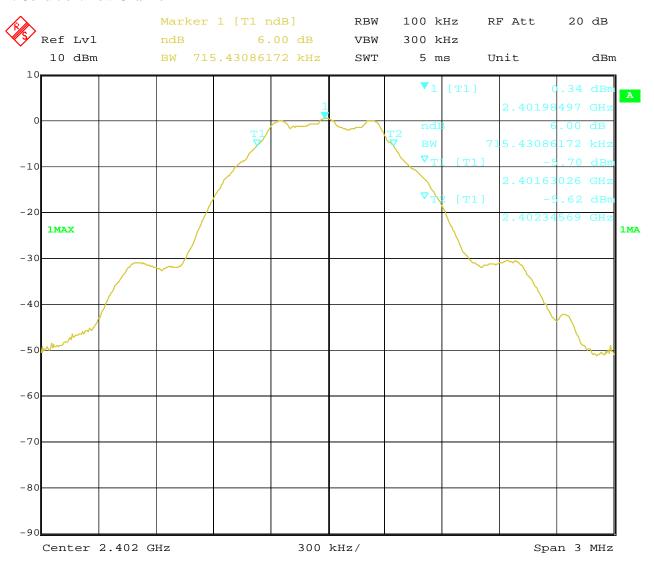
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Test Figure:

1. Condition: Low Channel



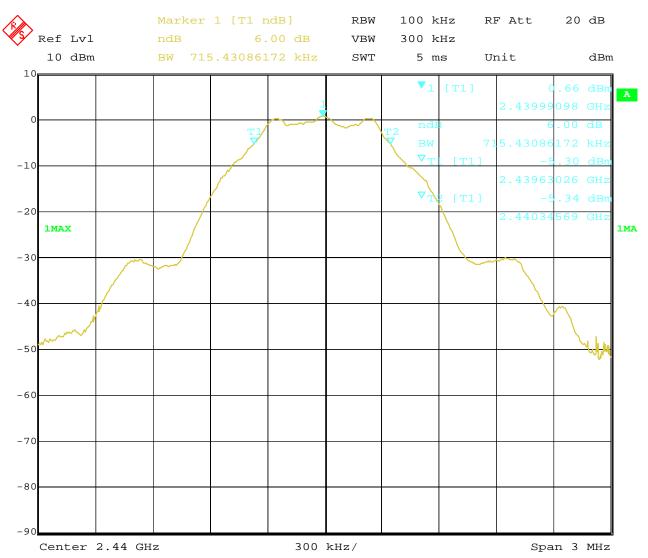
Date: 2.MAR.2019 14:49:48

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2. Condition: Middle Channel



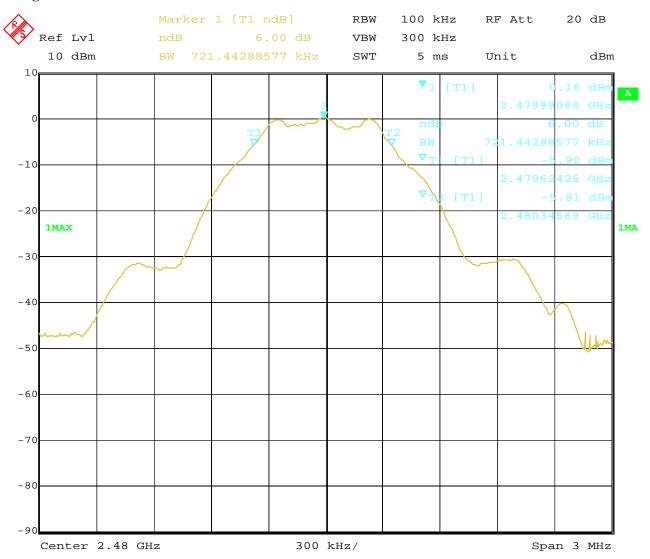
Date: 2.MAR.2019 14:51:46

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3. High Channel



Date: 2.MAR.2019 14:55:51

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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the Peak power were measured.

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8.4Test Results

EUT		Enj	oy TV	Model	APC	2390R
Mode		Keep Tı	ransmitting	Input Voltage	120V~	
Temperatur	mperature 24		deg. C, Humidity		56% RH	
Channel	Cł	nannel Frequency	Max. Power O	output (dBm)	Peak Power Limit	Pass/ Fail
Chamer		(MHz)	Pea	ık	(dBm)	
Low		2402	1.5	8	30	Pass
Middle		2440	1.8	5	30	Pass
High		2480	1.3	0	30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

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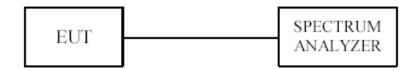
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW = 10 kHz.
- 3. Set the VBW \geq 30 kHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be ≤ 8 dBm.

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9.4Test Result

EUT			Enjoy TV		Mode	el		APC390R
Mode		K	eep Transmit	tting	Input Vol	tage		120V~
Temperat	ure		24 deg. C,		Humid	Humidity		56% RH
Channel	Re	Reading Loss		Final Pow Density	ver Spectral v (dBm)	Maxi Lir (dB	nit	Pass/ Fail
	Г					T		
Low	-:	-8.05 0.2		-7	7.85	8		Pass
Middle	-:	8.09	0.2	-7	7.89	8	3	Pass
High	-:	8.95	0.2	-8	3.75	8	3	Pass

Note: The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss

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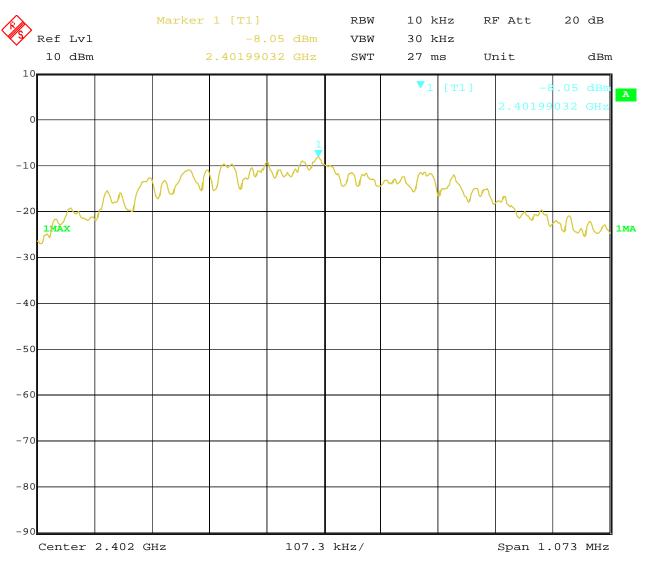
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Test Figure:

1. Condition: Low Channel



Date: 2.MAR.2019 15:00:48

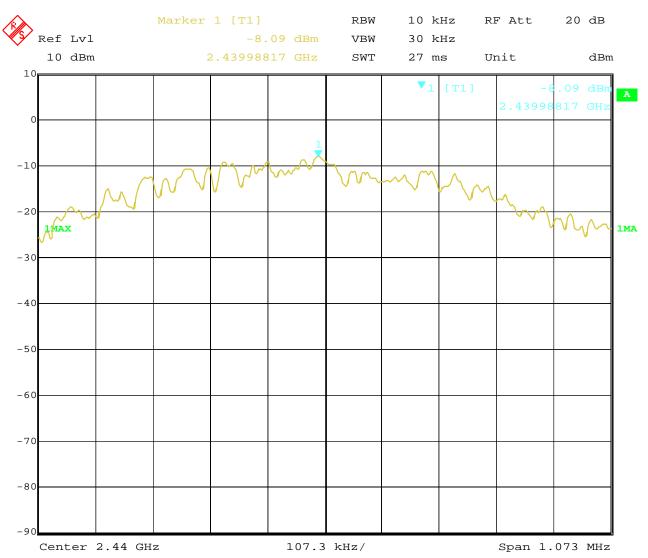
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2. Condition: Middle Channel



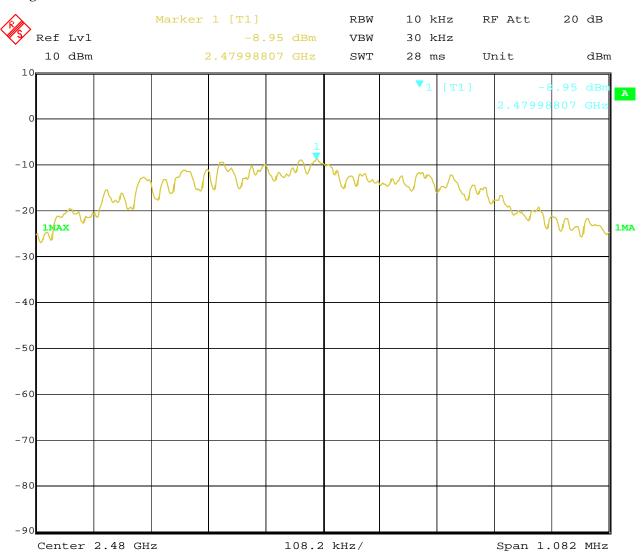
Date: 2.MAR.2019 15:02:29

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3. High Channel



Date: 2.MAR.2019 15:03:31

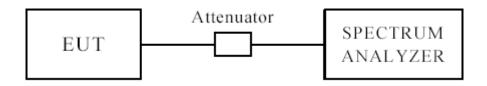
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10 Out of Band Measurement 10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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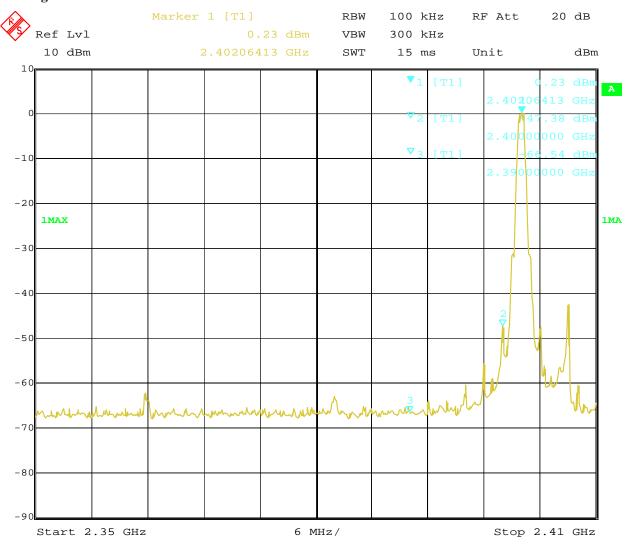
Date: 2019-03-05



10.4 Band-edge Measurement

EUT	Enjoy TV	Model	APC390R
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 2.MAR.2019 15:05:15

Note: The Max. FS in Restrict Band are measured in conventional method.

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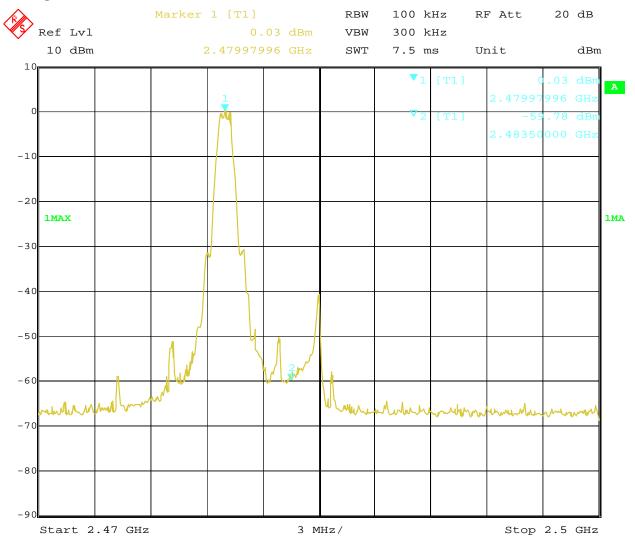
Date: 2019-03-05



10.4 Band-edge Measurement

EUT	Enjoy TV	Model	APC390R
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 2.MAR.2019 15:04:18

Note: The Max. FS in Restrict Band are measured in conventional method.

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	EUT		Enjoy T	V		Model			APC39	0R			
ľ	Mode	Keep Transmitting				Input Voltage			120V~				
Temperature			24 deg. (C,		Humidit	у		56% R	Н			
Tes	t Result:		Pass										
	Class B 1GHz-18GHz - 2				•		•						
1.0E+2-									$\overline{}$				
90-									-/-				
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80-													
70-													
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level (dbuv/m)													
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23	50				Frequency	(MHz)				2410			
No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict			
	(MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)					
))	(dB)								
		1	-3.53	74.0	-40.10	Peak	360.00	100	Н	Pass			

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10.4 Restrict Band Measurement

	E	EUT	Enjoy TV				Model		A	APC390R			
Mode Temperature			de Keep Transmitting				Input Voltage			120V~			
							Humidity		56% RH				
	Test	Result:		Pass									
		Class B 1GHz-18GHz - 2											
1.	.0E+2-												
	90-												
										_			
	80-									-/			
	70-												
Œ										/ \			
level (dBuV/m)	60-									/			
eve	50-									<u>'</u>	\		
	30								<i></i>				
	40-							M1			Nul.		
	4	mban katalah di katalah di katalah dalah dalah	and the first property of the second	Under Gestraft des	التهيزة لطبيعة البيواني فأم أجهار النبي		美国中国人民共和国人民共和国人民共和国人民共和国人民共和国人民共和国人民共和国人民共和	helitatelaksakkajakerakeraski	A STATE OF THE STA		Villeridand		
	30- 2350	0					4.11.				2410		
						Frequency	(MHz)						
No		Fraguanay	Results	Factor	Limit	Over	Detector	Table (a)	Hoight	ANT	Verdict		
INC	J.	Frequency				Limit	Detector	Table (o)	Height	AINI	verdict		
		(MHz)	(dBuV/m	(dB)	(dBuV/m				(cm)				
))	(dB)	 		100	.,			
1		2390.000	36.75	-3.53	74.0	-37.25	Peak	28.00	100	V	Pass		

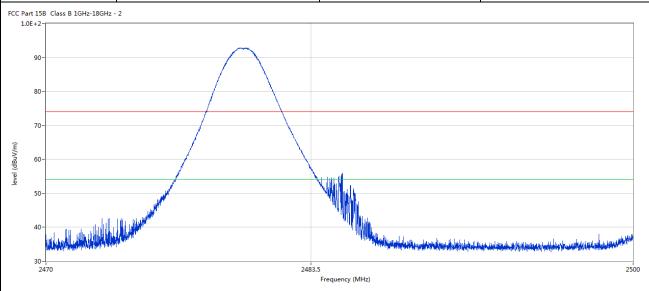
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10.4 Restrict Band Measurement

EUT	Enjoy TV	Model	APC390R
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)		
))	(dB)					
1	2483.5	57.06	-3.57	74.0	-16.53	Peak	180.00	100	Н	Pass
2	2483.5	43.86	-3.57	74.0	-10.14	AV	180.00	100	Н	Pass

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10.4	Restrict Ban	d Measure	ment								
E	UT		Enjoy T	V		Model		APC390R			
Mode Temperature		Ke	ep Transn	nitting		Input Volta	ige		120V~		
						Humidit	y		56% R	Н	
Test I	Result:		Pass								
	ass B 1GHz-18GHz - 2										
1.0E+2-											
90-											
			4	The state of the s							
80-											
70-	70-										
			/								
level (dBuV/m)											
I .			/								
50-		/	(No. of the						
40-		. Like Market									
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30 - 2470					2483.5						
					Frequency	(MHz)					
-			1	1		1		1			
No.	Frequen	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict	
	cy (MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)			
))	(dB)						
1	2483.5	18 53	-3 57	74.0	-25 47	Poak	3/1 00	100	V	Pacc	

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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Only one antennas used. The gain of the antennas is 2.0dBi

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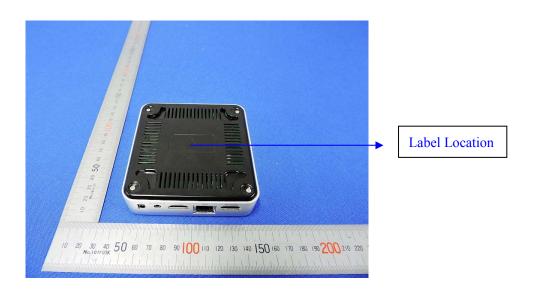


12.0 FCC ID Label

FCCID: ZJU-F19AF3

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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13.0 Photo of testing

Conducted Emission Test Setup:

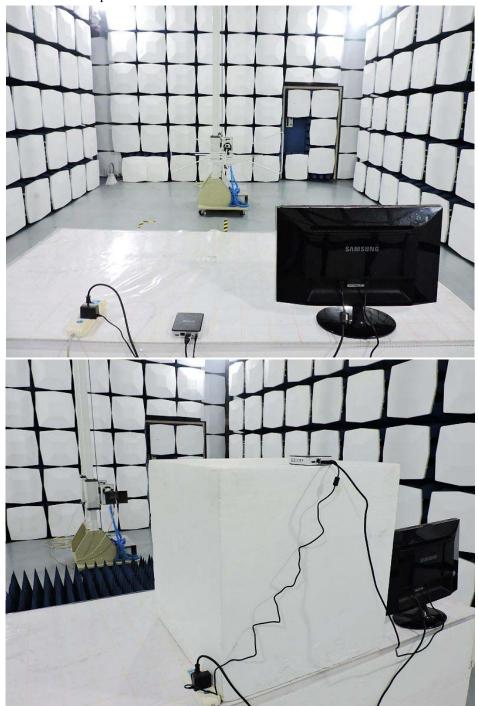


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Radiated Emission Test Setup:



Photographs - EUT

Please see test report EMC1902047-01

End of the report

The report refers only to the sample tested and does not apply to the bulk.

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