

Co-location Report

Applicant: TP-Link Technologies Co., Ltd.

Address: Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central
Science and Technology Park, Shennan Rd, Nanshan,
Shenzhen, China

Application Type: Certification

Product: AX11000 MU-MIMO Tri-Band Gaming Router

Model No.: Archer AX11000

Brand Name: tp-link

FCC Rule Part(s): Part 15 Subpart C (Section 15.247)
Part15 Subpart E (Section 15.407)

Test Date: November 23 ~ December 05, 2018

Reviewed By:



(Paddy Chen)

Approved By:



(Chenz Ker)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
1811TW0112-U6	Rev. 01	Initial report	12-05-2018	Valid

1. TEST EQUIPMENT CALIBRATION DATE

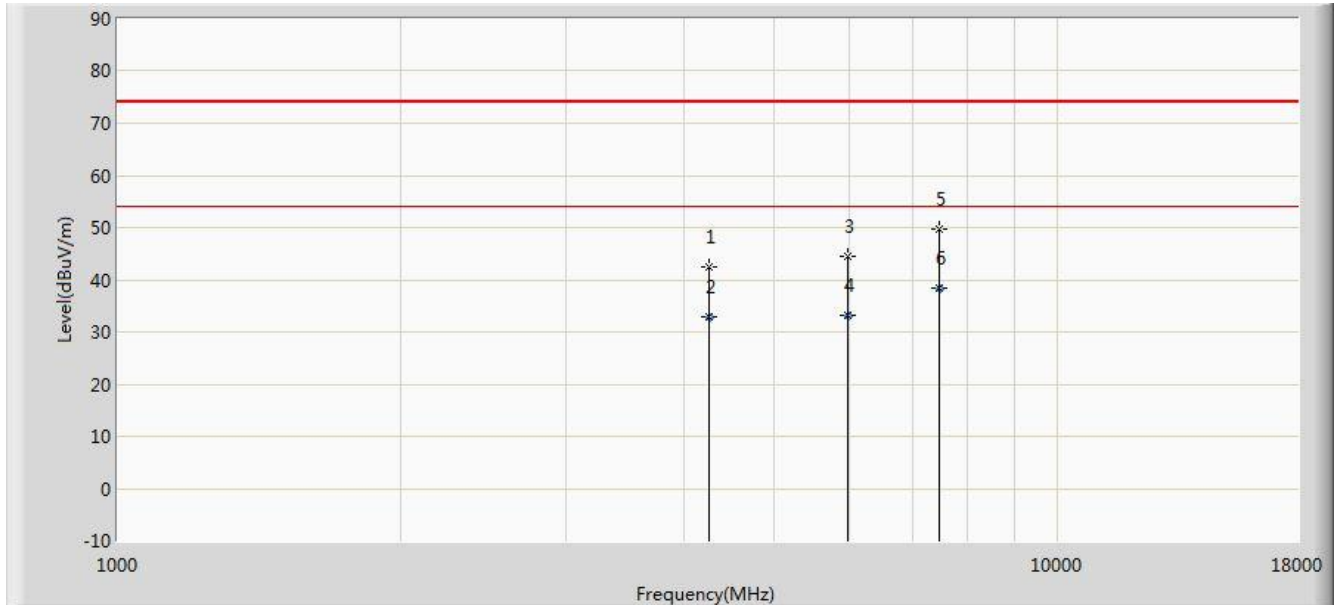
Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2019/4/24
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2019/5/22
Broadband Hornantenna	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2019/4/24
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2019/4/23
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2019/4/23
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2019/4/23
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2019/3/19
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2019/7/30
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2019/5/18
Temperature/Humidity Meter	TFA	35.1078.10.IT	MRTTWA00032	1 year	2019/5/21

Software	Version	Function
e3	9.160520a	EMI Test Software

2. TEST RESULT of Radiated Emissions for Co-located

Test Mode:	2.4GHz Wi-Fi + 2.4GHz BT + 5GHz Wi-Fi Transmit	Test Site:	AC1
Test Engineer:	Kevin Ker	Polarity:	Horizontal
Test Date	2018/11/30		
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			4264.000	42.333	40.917	-31.667	74.000	1.415	PK
2			4264.000	33.006	31.590	-20.994	54.000	1.415	AV
3			5989.500	44.602	38.509	-23.598	68.200	6.093	PK
4			5989.500	33.133	27.040	-20.867	54.000	6.093	AV
5			7468.500	49.608	36.817	-24.392	74.000	12.791	PK
6		*	7468.500	38.471	25.680	-15.529	54.000	12.791	AV

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: We selected the 2.4GHz and 5GHz worst-case mode of radiated spurious emissions in the DTS, DSS and UNII reports.

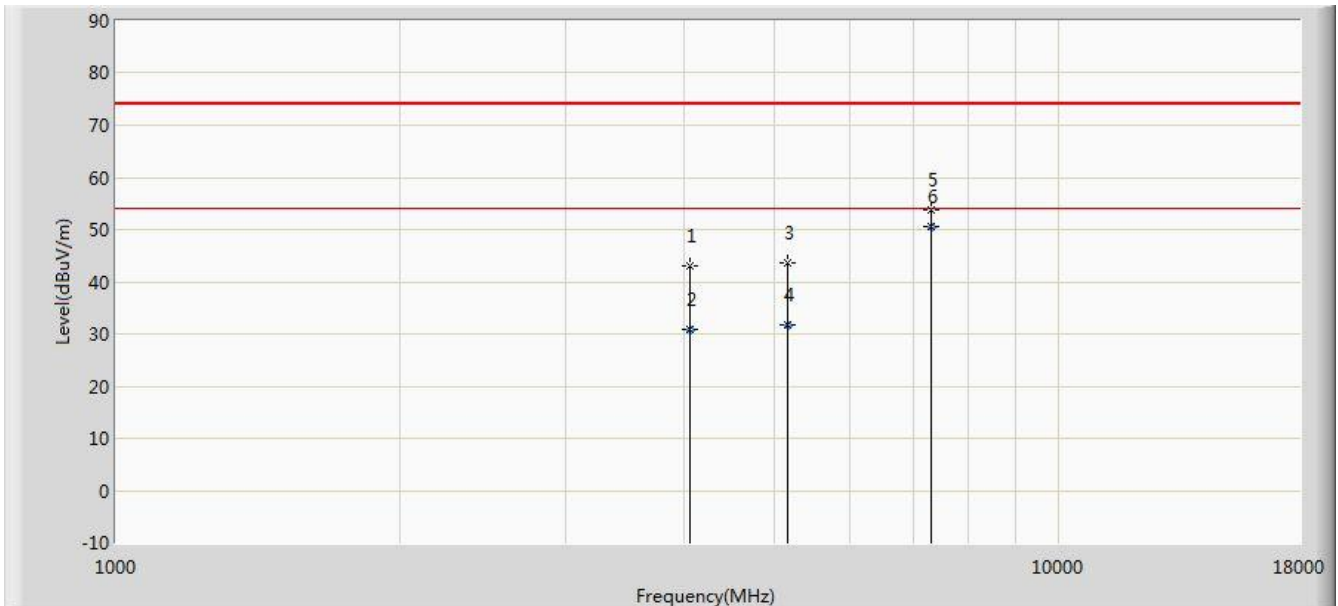
Note 3: 2.4GHz Wi-Fi 802.11g Channel 2422MHz Power setting = 91;

5GHz NII-1 Band Wi-Fi 802.11ax-HE40 Channel 5230MHz Power setting = 89;

5GHz NII-3 Band Wi-Fi 802.11n-HT20 Channel 5745MHz Power setting = 95;

2.4GHz Bluetooth DH5 Channel 2480MHz.

Test Mode:	2.4GHz Wi-Fi + 2.4GHz BT + 5GHz Wi-Fi Transmit	Test Site:	AC1
Test Engineer:	Kevin Ker	Polarity:	Vertical
Test Date	2018/11/30		
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			4068.500	43.062	42.452	-30.938	74.000	0.610	PK
2			4068.500	30.840	30.230	-23.16	54.000	0.610	AV
3			5148.000	43.624	39.448	-30.376	74.000	4.176	PK
4			5148.000	31.606	27.430	-22.394	54.000	4.176	AV
5			7324.000	53.681	41.318	-20.319	74.000	12.363	PK
6		*	7326.860	50.615	38.247	-3.385	54.000	12.368	AV

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: We selected the 2.4GHz and 5GHz worst-case mode of radiated spurious emissions in the DTS, DSS and UNII reports.

Note 3: 2.4GHz Wi-Fi 802.11g Channel 2422MHz Power setting = 91;

5GHz NII-1 Band Wi-Fi 802.11ax-HE40 Channel 5230MHz Power setting = 89;

5GHz NII-3 Band Wi-Fi 802.11n-HT20 Channel 5745MHz Power setting = 95;

2.4GHz Bluetooth DH5 Channel 2480MHz.

The End

Appendix A - Test Setup Photograph

Refer to “1811TW0112-UT” file.

Appendix B - EUT Photograph

Refer to “ 1811TW0112-UE” file.