



FCC TEST REPORT

FCC Part 15 B

FCC ID: 2AFJI-A4P0TW

Report Number..... : ZKT-250227L3235E

Date of Test..... July 23, 2024 to Feb. 26, 2025

Date of issue..... : Feb. 26, 2025

Total number of pages..... 16

Test Result : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : Quantum Creations LLC.

Address : 15705 NW 13th Ave Miami Gardens, FL 33169

Manufacturer's name : QUTHC Limited

Address : 7 Floor C Building, Longsheng Industrial Park, Huiyang District, Huizhou City, Guangdong province (516211) P. R. China

Test specification:

Standard..... : FCC Part 15 B, ANSI C63.4:2014

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No..... : TRF-EL-117_V0

Test Report Form(s) Originator..... : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : Access

Trademark : Azulle, Raydiant

Model/Type reference..... : A4P0TW

Ratings..... : Adapter:
Mode:FJ-SW126G1202000N
INPUT:100-240V~50/60Hz 0.6A Max
OUTPUT:12.0V 2.0A, 24.0W



Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

**Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China**

Tested by (name + signature).....: Jim Liu

Jim Liu

Reviewer (name + signature).....: Jackson Fang

Jackson Fang

Approved (name + signature).....: Lake Xie





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1.VERSION

Report No.	Version	Description	Approved
ZKT-250227L3235E	Rev.01	Initial issue of report	Feb. 26, 2025



2.GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT : Access
Trademark : Azulle, Raydiant
Model : A4P0TW
Serial No.: ZKT-250227L3235E-1
Adapter:
Power Supply : Mode:FJ-SW126G1202000N
INPUT:100-240V~50/60Hz 0.6A Max
OUTPUT:12.0V  2.0A, 24.0W

2.2 Tested System Details

None.

2.3 Test Facility

Site Description

Name of Firm : Shenzhen ZKT Technology Co., Ltd.

Site Location : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225
Designation Number: CN1299
IC Registered No.: 27033

2.4 SUMMARY OF TEST RESULTS

FCC Part15 , Subpart B			
Standard Section	Test Item	Judgment	Remark
15.107	Conducted Emission	PASS	
15.109	Radiated Emission	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



2.5 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Test item	Value (dB)
Conducted Emission (150K-30MHZ)	3.20
Radiated disturbance30MHz-1000MHz	4.80
Radiated disturbance1000MHz-6000MHz	4.80



2.6 Test Instrument Used

Conducted emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Nov. 14, 2024	Nov. 13, 2025
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Nov. 02, 2024	Nov. 01, 2025
3	Test Cable	N/A	C-01	N/A	N/A	Nov. 02, 2024	Nov. 01, 2025
4	Test Cable	N/A	C-02	N/A	N/A	Nov. 02, 2024	Nov. 01, 2025
5	Test Cable	N/A	C-03	N/A	N/A	Nov. 02, 2024	Nov. 01, 2025
6	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Nov. 02, 2024	Nov. 01, 2025
7	Triple-Loop Antenna	N/A	RF300	N/A	N/A	Nov. 02, 2024	Nov. 01, 2025
8	Absorbing Clamp	DZ	ZN23201	15034	N/A	Nov. 07, 2024	Nov. 06, 2025
9	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\



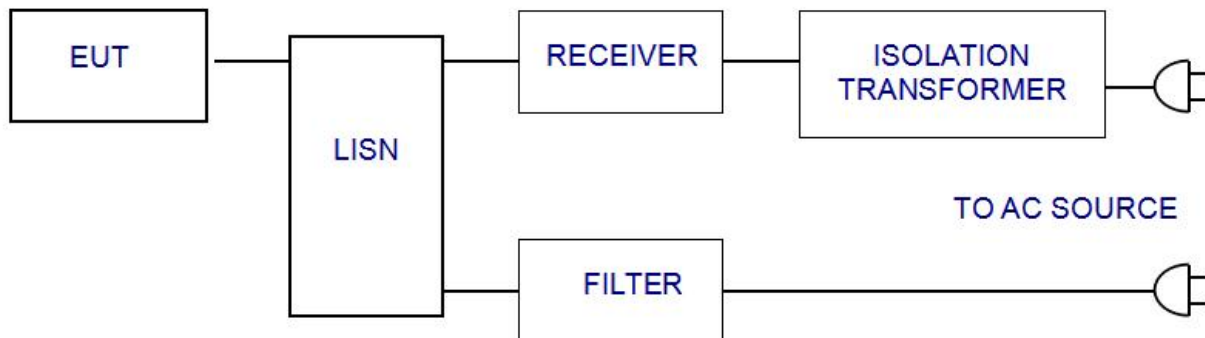
Radiated emissions Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	A.17.05	Nov. 02, 2024	Nov. 01, 2025
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Nov. 02, 2024	Nov. 01, 2025
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Nov. 02, 2024	Nov. 01, 2025
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	N/A	Nov. 13, 2024	Nov. 12, 2025
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Nov. 13, 2024	Nov. 12, 2025
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Nov. 13, 2024	Nov. 12, 2025
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Nov. 16, 2024	Nov. 15, 2025
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Nov. 02, 2024	Nov. 01, 2025
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Nov. 02, 2024	Nov. 01, 2025
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Nov. 02, 2024	Nov. 01, 2025
11	Test Cable	N/A	R-01	N/A	N/A	Nov. 02, 2024	Nov. 01, 2025
12	Test Cable	N/A	R-02	N/A	N/A	Nov. 02, 2024	Nov. 01, 2025
13	Test Cable	N/A	R-03	N/A	N/A	Nov. 02, 2024	Nov. 01, 2025
14	Test Cable	N/A	RF-01	N/A	N/A	Nov. 02, 2024	Nov. 01, 2025
15	Test Cable	N/A	RF-02	N/A	N/A	Nov. 02, 2024	Nov. 01, 2025
16	Test Cable	N/A	RF-03	N/A	N/A	Nov. 02, 2024	Nov. 01, 2025
17	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Nov. 02, 2024	Nov. 01, 2025
18	Signal Generator	Agilent	N5182A	N/A	A.01.87	Nov. 02, 2024	Nov. 01, 2025
19	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	N/A	Nov. 16, 2024	Nov. 15, 2025
20	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Nov. 02, 2024	Nov. 01, 2025
21	MWRF Power Meter Test system	MW	MW100-RF CB	N/A	N/A	Nov. 02, 2024	Nov. 01, 2025
22	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	Nov. 02, 2024	Nov. 01, 2025
23	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
24	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\
25	Turntable	MF	MF-7802BS	N/A	N/A	\	\
26	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\



3.CONDUCTED EMISSION AT THE MAINS TERMINALS TEST

3.1 Block Diagram Of Test Setup



3.2 Test Standard

FCC PART 15 B

3.3 Power Line Conducted Emission Limit

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.4 EUT Configuration on Test

The following equipments are installed on conducted emission test to meet FCC PART 15 B requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT and simulators as shown in Section 3.1.

3.5.2 Turn on the power of all equipments.

3.5.3 Let the EUT work in test modes and test it.

3.6 Test Procedure

The EUT is put on the ground and connected to the AC mains through a Artificial Mains Network (AMN). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the **FCC PART 15 B** regulations during conducted emission test.

The bandwidth of the test receiver (R&S Test Receiver ESCI) is set at 10KHz.

The frequency range from 150 KHz to 30 MHz is investigated.

3.7 Test Result

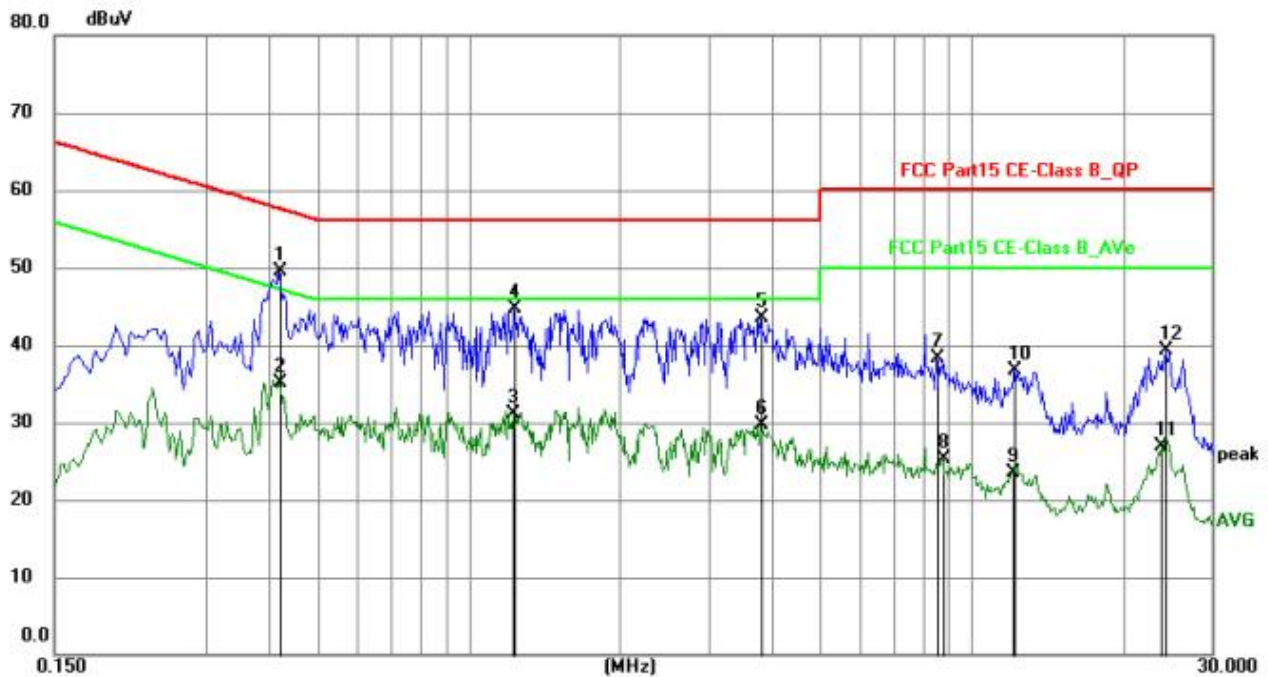
PASS

Please refer to the following page.



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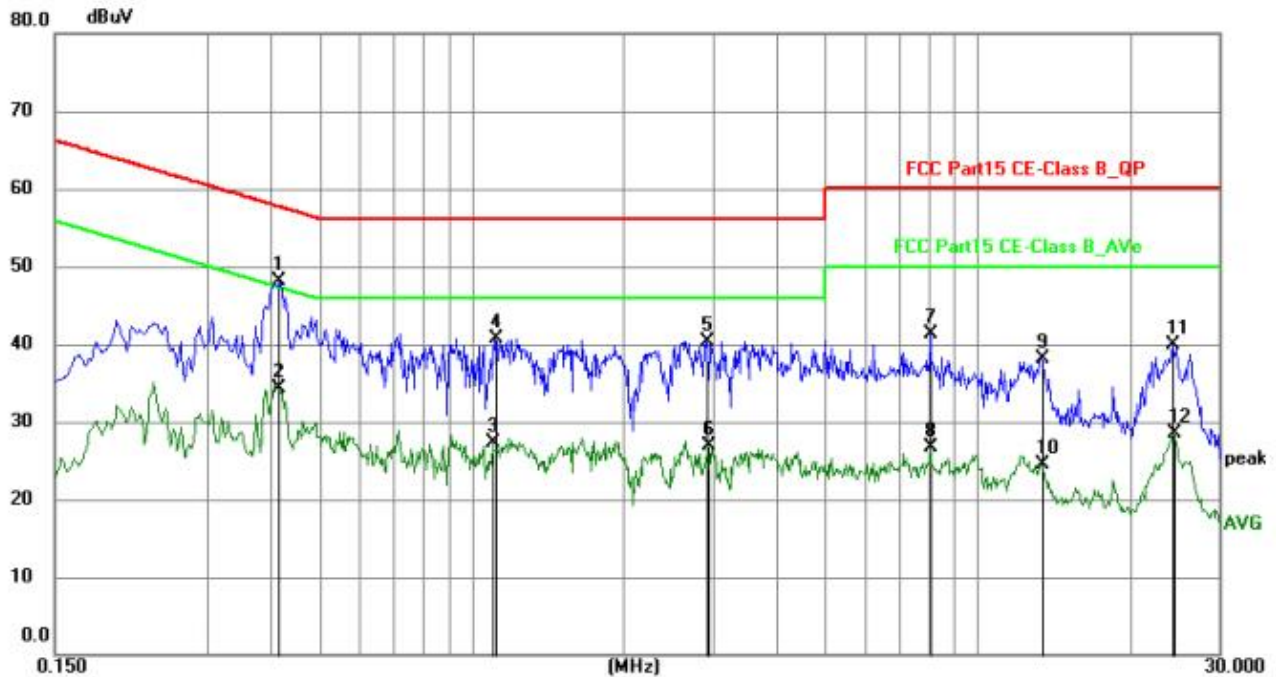
Conducted Emission At The Mains Terminals Test Data			
Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Line
Test Voltage :	AC 120V/60Hz	Test Mode:	Working



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4200	29.11	20.32	49.43	57.45	-8.02	QP	P
2	0.4200	14.87	20.32	35.19	47.45	-12.26	AVG	P
3	1.2254	10.79	20.30	31.09	46.00	-14.91	AVG	P
4	1.2338	24.32	20.30	44.62	56.00	-11.38	QP	P
5	3.8083	23.26	20.34	43.60	56.00	-12.40	QP	P
6	3.8083	9.34	20.34	29.68	46.00	-16.32	AVG	P
7	8.5380	17.86	20.43	38.29	60.00	-21.71	QP	P
8	8.7360	4.87	20.43	25.30	50.00	-24.70	AVG	P
9	12.1065	3.01	20.47	23.48	50.00	-26.52	AVG	P
10	12.1515	16.18	20.47	36.65	60.00	-23.35	QP	P
11	23.8560	6.23	20.60	26.83	50.00	-23.17	AVG	P
12	24.3060	18.76	20.62	39.38	60.00	-20.62	QP	P



Conducted Emission At The Mains Terminals Test Data			
Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Neutral
Test Voltage :	AC 120V/60Hz	Test Mode:	Working



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4168	27.85	20.32	48.17	57.51	-9.34	QP	P
2	0.4168	13.94	20.32	34.26	47.51	-13.25	AVG	P
3	1.1038	7.06	20.30	27.36	46.00	-18.64	AVG	P
4	1.1129	20.39	20.30	40.69	56.00	-15.31	QP	P
5	2.9038	20.05	20.33	40.38	56.00	-15.62	QP	P
6	2.9355	6.53	20.33	26.86	46.00	-19.14	AVG	P
7	8.0922	20.90	20.41	41.31	60.00	-18.69	QP	P
8	8.0922	6.25	20.41	26.66	50.00	-23.34	AVG	P
9	13.3528	17.54	20.47	38.01	60.00	-21.99	QP	P
10	13.4295	4.11	20.47	24.58	50.00	-25.42	AVG	P
11	24.3060	19.26	20.62	39.88	60.00	-20.12	QP	P
12	24.4005	7.91	20.62	28.53	50.00	-21.47	AVG	P

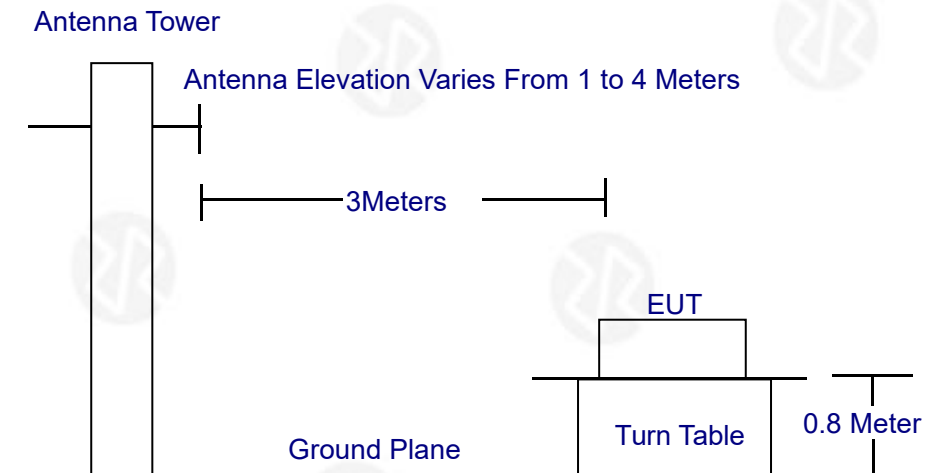
Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Measurement Level = Reading level + Correct Factor



4. RADIATION EMISSION TEST

4.1 Block Diagram of Test Setup



4.2 Test Standard

FCC PART 15 B

4.3 Radiation Limit

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0
1000-6000	3	74.0

4.4 EUT Configuration on Test

The FCC PART 15 B regulations test method must be used to find the maximum emission during radiated emission test. The configuration of EUT is the same as used in conducted emission test. Please refer to Section 2.2.

4.5 Operating Condition of EUT

Same as conducted emission test, which is listed in Section 2.2 except the test set up replaced as Section 4.1.

4.6 Test Procedure

The EUT and its simulators are placed on a turned table that is 0.8 meter above the ground. The turned table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find the maximum emission levels, the interface cable must be manipulated according to FCC PART 15 B on radiated emission test.

The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 120KHz below 1GHz, set at 1MHz above 1GHz. The frequency range from 30MHz to 1000MHz is checked. The highest frequency of the internal sources of the EUT was below 108MHz, so the measurement was only made up to 1GHz.

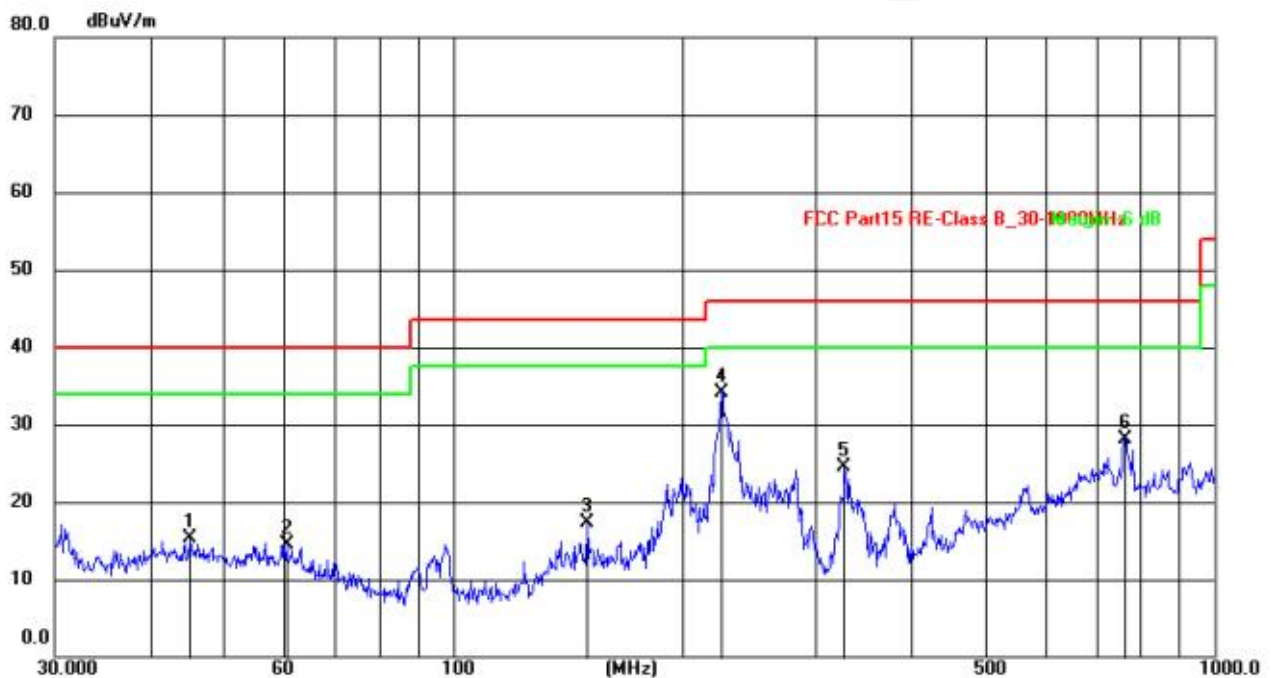


4.7 Test Result

A4P0TW

Radiation Emission Test Data			
Temperature:	26°C	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode:	Working

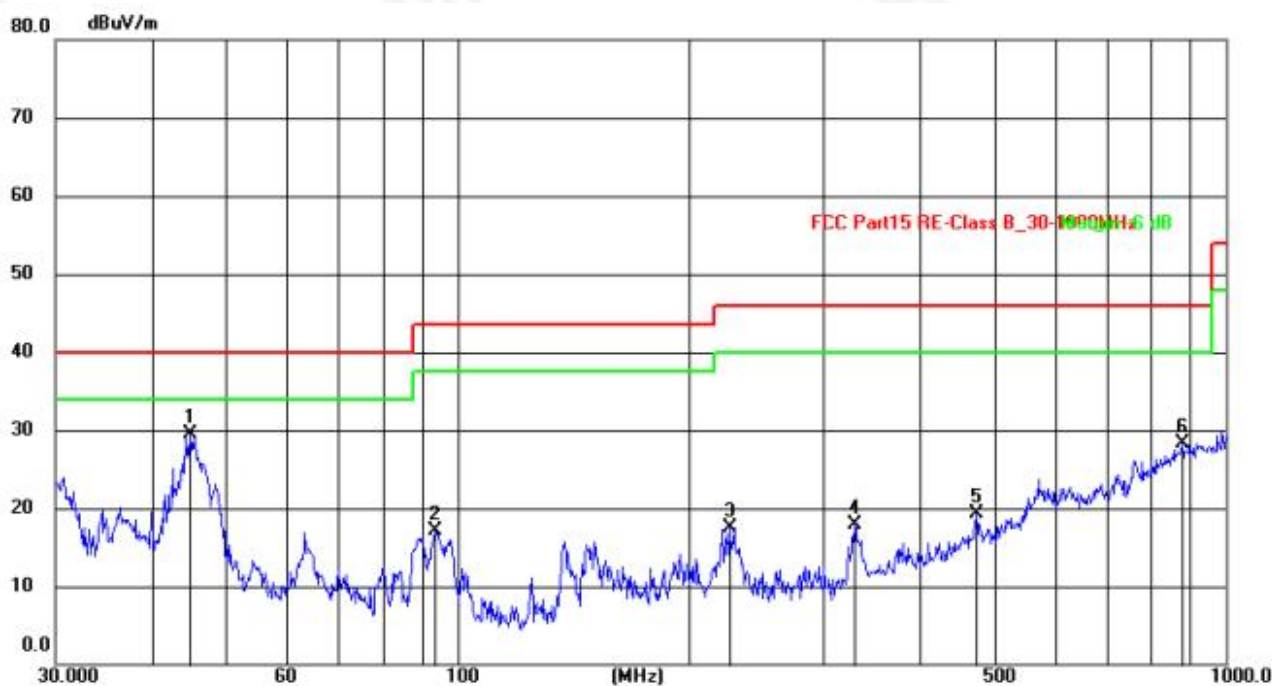
Between 30MHz-1GHz:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	45.2166	29.23	-13.98	15.25	40.00	-24.75	QP
2	60.4918	28.84	-14.25	14.59	40.00	-25.41	QP
3	150.0108	33.69	-16.35	17.34	43.50	-26.16	QP
4	225.3079	51.18	-17.05	34.13	46.00	-11.87	QP
5	326.7395	40.86	-16.42	24.44	46.00	-21.56	QP
6	763.3757	34.77	-6.58	28.19	46.00	-17.81	QP



Radiation Emission Test Data			
Temperature:	26℃	Relative Humidity:	54%
Pressure:	1009hPa	Phase :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode:	Working



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	44.9006	46.51	-16.97	29.54	40.00	-10.46	QP
2	93.7684	38.35	-21.27	17.08	43.50	-26.42	QP
3	226.0994	37.53	-20.01	17.52	46.00	-28.48	QP
4	329.0390	34.88	-16.92	17.96	46.00	-28.04	QP
5	473.8346	31.23	-11.91	19.32	46.00	-26.68	QP
6	878.3214	29.34	-1.06	28.28	46.00	-17.72	QP

Notes:

The EUT was test at 3m in field chamber.

Final Level =Receiver Read level +Antenna Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.



1GHz~25GHz

Pre-scan all modes and recorded the worst case results in this report which is bluetooth mode.

A4P0TW

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1286.00	53.82	30.55	5.77	24.66	53.7	74.00	-20.3	Pk
V	1286.00	43.94	30.55	5.77	24.66	43.82	54.00	-10.18	AV
V	2754.00	53.82	30.33	6.32	24.55	54.36	74.00	-19.64	Pk
V	2754.00	43.64	30.33	6.32	24.55	44.18	54.00	-9.82	AV
V	5675.00	54.24	30.85	7.45	24.69	55.53	74.00	-18.47	Pk
V	5675.00	45.52	30.85	7.45	24.69	46.81	54.00	-7.19	AV
V	9829.00	54.56	31.02	8.99	25.57	58.1	74.00	-15.9	Pk
V	9829.00	43.94	31.02	8.99	25.57	47.48	54.00	-6.52	AV
V	14547.00	36.58	30.02	8.69	27.12	42.37	74.00	-31.63	Pk
V	14547.00	31.39	30.02	8.69	27.12	37.18	54.00	-16.82	AV
V	16757.00	-	-	-	-	-	74.00	-	Pk
V	16757.00	-	-	-	-	-	54.00	-	AV
H	1472.00	50.94	30.55	5.77	24.66	50.82	74.00	-23.18	Pk
H	1472.00	42.05	30.55	5.77	24.66	41.93	54.00	-12.07	AV
H	2911.00	50.84	30.33	6.32	24.55	51.38	74.00	-22.62	Pk
H	2911.00	43.04	30.33	6.32	24.55	43.58	54.00	-10.42	AV
H	5896.00	53.45	30.85	7.45	24.69	54.74	74.00	-19.26	Pk
H	5896.00	42.95	30.85	7.45	24.69	44.24	54.00	-9.76	AV
H	10048.00	52.72	31.02	8.99	25.57	56.26	74.00	-17.74	Pk
H	10048.00	43.07	31.02	8.99	25.57	46.61	54.00	-7.39	AV
H	15714.00	47.48	31.98	9.23	28.34	53.07	74.00	-20.93	Pk
H	15714.00	38.59	31.98	8.23	28.34	43.18	54.00	-10.82	AV
H	17883.00	-	-	-	-	-	74.00	-	Pk
H	17883.00	-	-	-	-	-	54.00	-	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



5. EUT TEST PHOTOGRAPHS

Reference to the Setup Photos for details.

6 .EUT Photographs

Reference to the External Photos & Internal Photos for details.

***** END OF REPORT *****