FCC TEST REPORT

Report No.:	BUMK-ESH-P20082481B-2
FCC ID:	2AWXZTY-R8821
Product:	Smart Camera
Test Model:	SC101-WA2, SC101-WO2
Received:	Aug.27, 2020
ISSUED:	Sep.23, 2020

Applicant:	Zhejiang Tuya Smart Electronics Co., Ltd
Address:	Room 901, Building 1, Huace Center, Xihu District, Hangzhou, Zhejiang Province, China

Issued By:	BUREAU VERITAS ADT (Shanghai) Corporation
Lab Location:	No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)

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ACCREDITED
Test Lab
Cert 2343.01

Contents

1. TEST PROGRAM

PRODUCT: Smart Camera
TEST MODEL: SC101-WA2, SC101-WO2
APPLICANT: Zhejiang Tuya Smart Electronics Co., Ltd
TESTED: Sep.1 to Sep.8, 2020
STANDARDS: 47 CFR FCC Part15, Subpart B, Class B
ANSI C63.4:2014

We, BUREAU VERITAS ADT (Shanghai) Corporation, declare that the equipment above has been tested and found compliance with the requirement limits of applicable standards. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate under the standards herein specified.

PREPARED BY : Yuan Zhang , **DATE:** Sep.23, 2020
Yuan ZHANG
Project Engineer

APPROVED BY : , **DATE:** Sep.23, 2020
Daniel Sun
EMC Lab Manager

2. Summary of Test Procedure and Test Results

EMISSION (47 CFR FCC Part15, Subpart B)		
Test Item	Normative References	Test Result
Conducted Emission	47 CFR FCC Part15, Subpart B 15.107	Meets the Class B requirements
Radiated Emission	47 CFR FCC Part15, Subpart B 15.109	Meets the Class B requirements

3. Test Configuration of Equipment under Test

3.1 Manufacturer information

Manufacturer : Zhejiang Tuya Smart Electronics Co., Ltd

Address : Room 901, Building 1, Huace Center, Xihu District, Hangzhou, Zhejiang Province, China

3.2 Feature of Equipment under Test

Product Name:	Smart Camera
Test Model:	SC101-WA2, SC101-WO2
Model Discrepancy:	Only appearance, screen printing, software version differences
EUT Power Rating:	5VDC/1A with adaptor 100-240Vac~, 50/60Hz

Note:
1. Please refer to user manual.
2. Based on the model discrepancy, we choose model SC101-WA2 to performe on full EMC tests.

3.3 Description of support units

NO.	PRODUCT	BRAND	MODEL NO.
1	Mobile Phone	Vivo	--
2	Adaptor	Shenzhen Keyu Power Supply Technology Co., Ltd	KA06E-0501000US
3	Adaptor	Shenzhen Keyu Power Supply Technology Co., Ltd	TPA-46B050100UU

3.4 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

This listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement		Value
Conducted emissions		2.55 dB
Radiated emissions	30 MHz ~ 1GHz	3.22 dB
	Above 1GHz	2.89 dB

4 Test of Conducted Emission

4.1 Test Limit

TEST STANDARD:

CFR 47 FCC Part 15, Subpart B (Section: 15.107)

FREQUENCY (MHz)	Class A (dBµV)		Class B (dBµV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTES: 1.The lower limit shall apply at the transition frequencies.

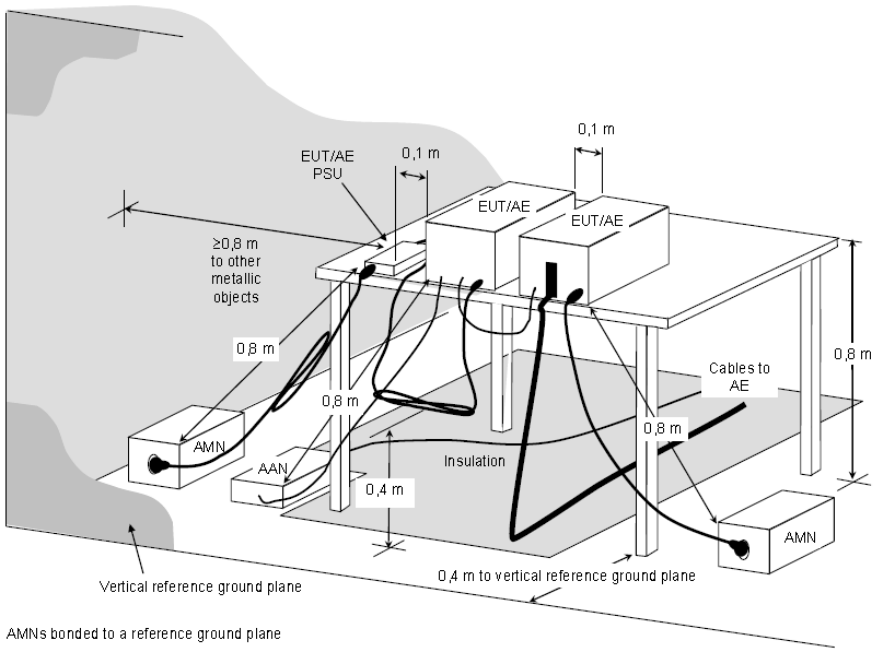
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2 Test Procedures

1. The EUT was placed on a desk 0.8 meter height from the metal ground plane and 0.4 meter from the conducting wall of the shielding room and it was kept at least 0.8 meters from any other grounded conducting surface.
2. Connect EUT to the power mains through a Artificial Mains Network (AMN).
3. All the support units are connecting to the other AMN.
4. The AMN provides 50 ohm coupling impedance for the measuring instrument.
5. The CISPR states that a 50 ohm, 50 micro-Henry AMN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched
8. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

4.3 Typical Test Setup



NOTE The 0,8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be ≥0,8 m.

Figure D.2 – Example measurement arrangement for table-top EUT (Conducted emission measurement – alternative 1)

4.4 Measurement Equipment

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	E1R1001	Mar.11, 2021
LISN ROHDE & SCHWARZ	ENV216	E1L1011	Mar.11, 2021
Software ADT	ADT_Cond_V7.3.0	N/A	N/A

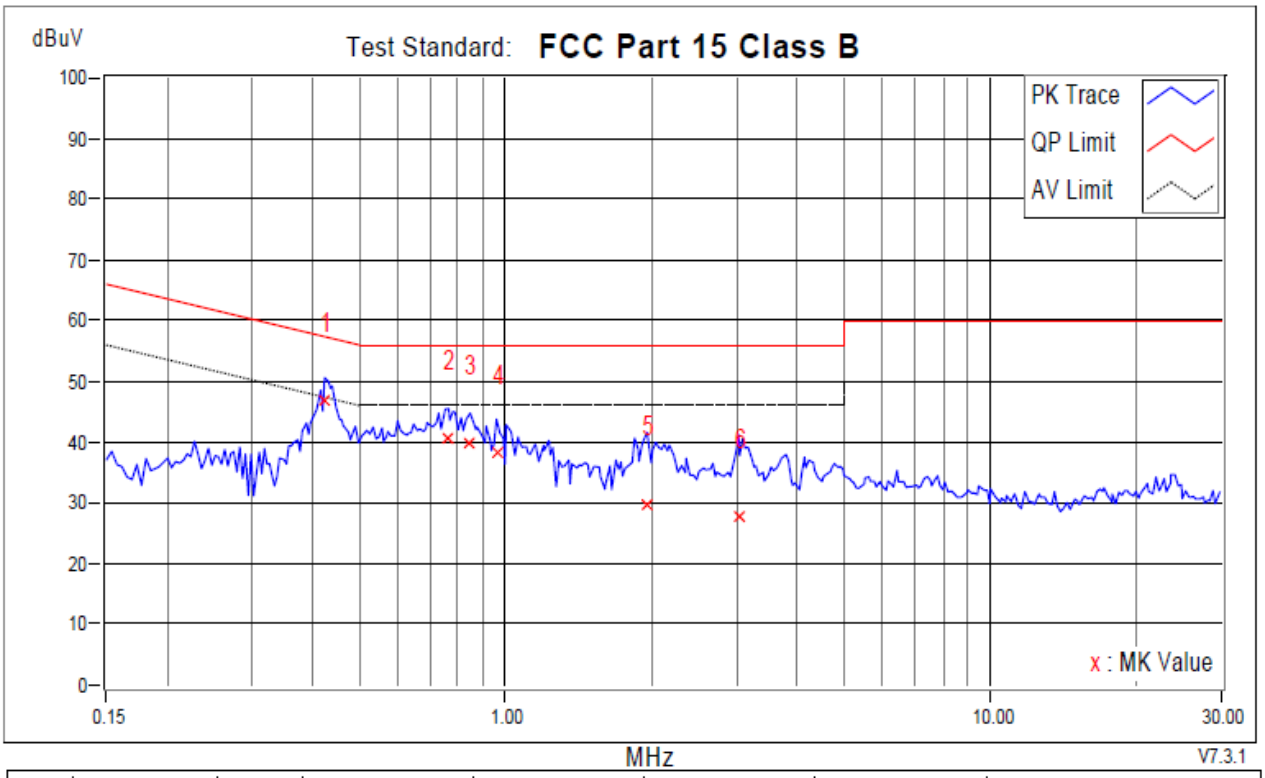
4.5 Test Result and Data

Conducted Emission Test Data

For Adaptor 1: KA06E-0501000US

120Vac/60Hz

Phase : LINE

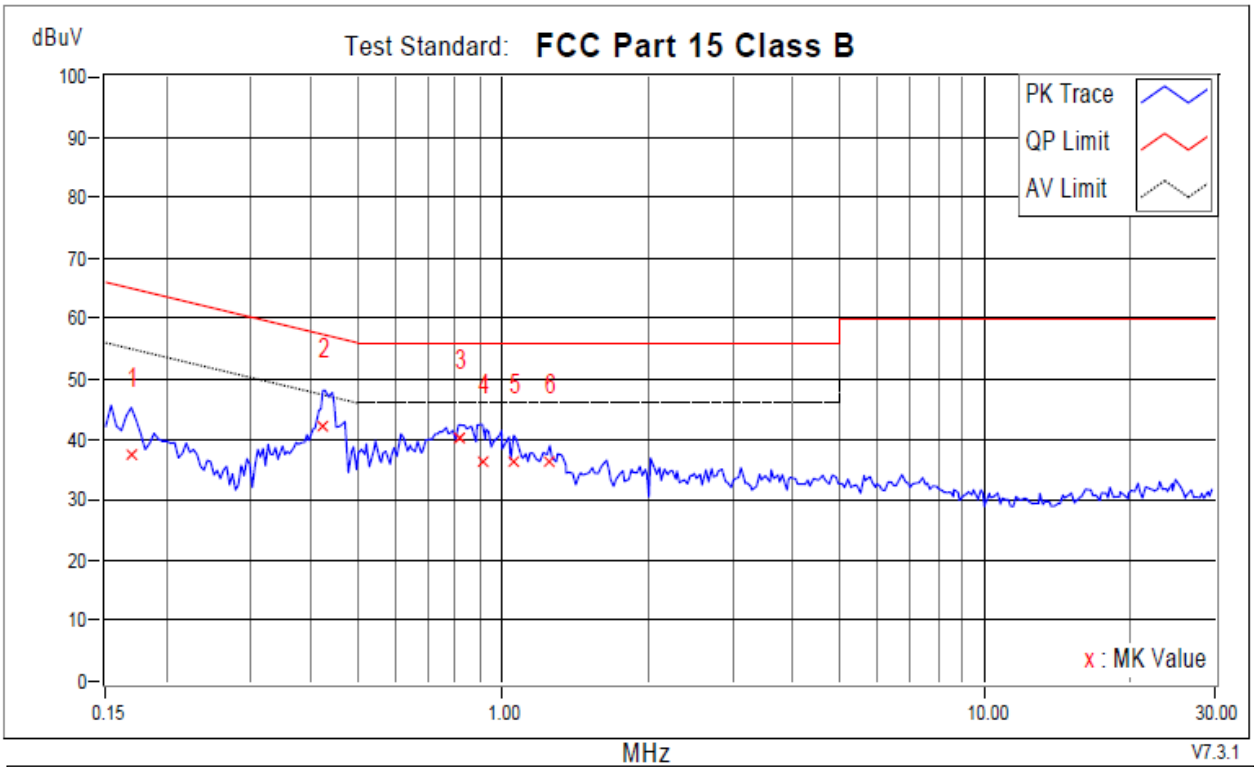


	Frequency	Corr. Factor	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
No.	MHz	dB	QP	AV	QP	AV	QP	AV	QP	AV	
+1	0.42370	9.70	37.22	27.76	46.92	37.46	57.38	47.38	-10.45	-9.91	
2	0.76387	9.58	31.00	16.42	40.58	26.00	56.00	46.00	-15.42	-20.00	
3	0.84598	9.58	30.25	16.31	39.83	25.89	56.00	46.00	-16.17	-20.11	
4	0.95937	9.59	28.82	12.58	38.41	22.17	56.00	46.00	-17.59	-23.83	
5	1.96186	9.74	19.85	6.21	29.59	15.95	56.00	46.00	-26.41	-30.05	
6	3.03320	9.78	17.95	4.32	27.73	14.10	56.00	46.00	-28.27	-31.90	

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

Phase : NEUTRAL



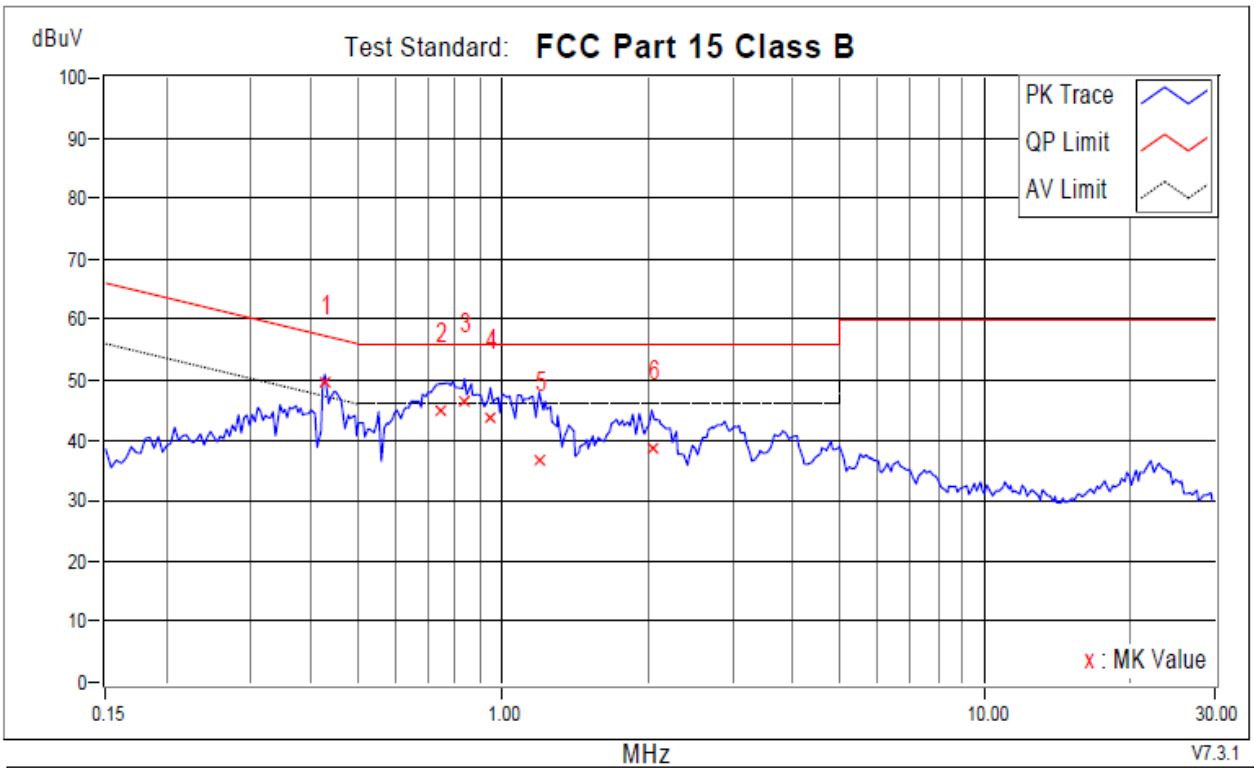
	Frequency	Corr. Factor	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
No.	MHz	dB	QP	AV	QP	AV	QP	AV	QP	AV	
1	0.16955	9.82	27.84	14.54	37.66	24.36	64.98	54.98	-27.32	-30.62	
+2	0.42370	9.84	32.38	22.91	42.22	32.75	57.38	47.38	-15.15	-14.62	
3	0.81079	9.88	30.46	15.55	40.34	25.43	56.00	46.00	-15.66	-20.57	
4	0.90854	9.89	26.60	10.00	36.49	19.89	56.00	46.00	-19.51	-26.11	
5	1.05474	9.89	26.35	13.30	36.24	23.19	56.00	46.00	-19.76	-22.81	
6	1.25415	9.90	26.30	11.65	36.20	21.55	56.00	46.00	-19.80	-24.45	

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

240Vac/50Hz

Phase: LINE

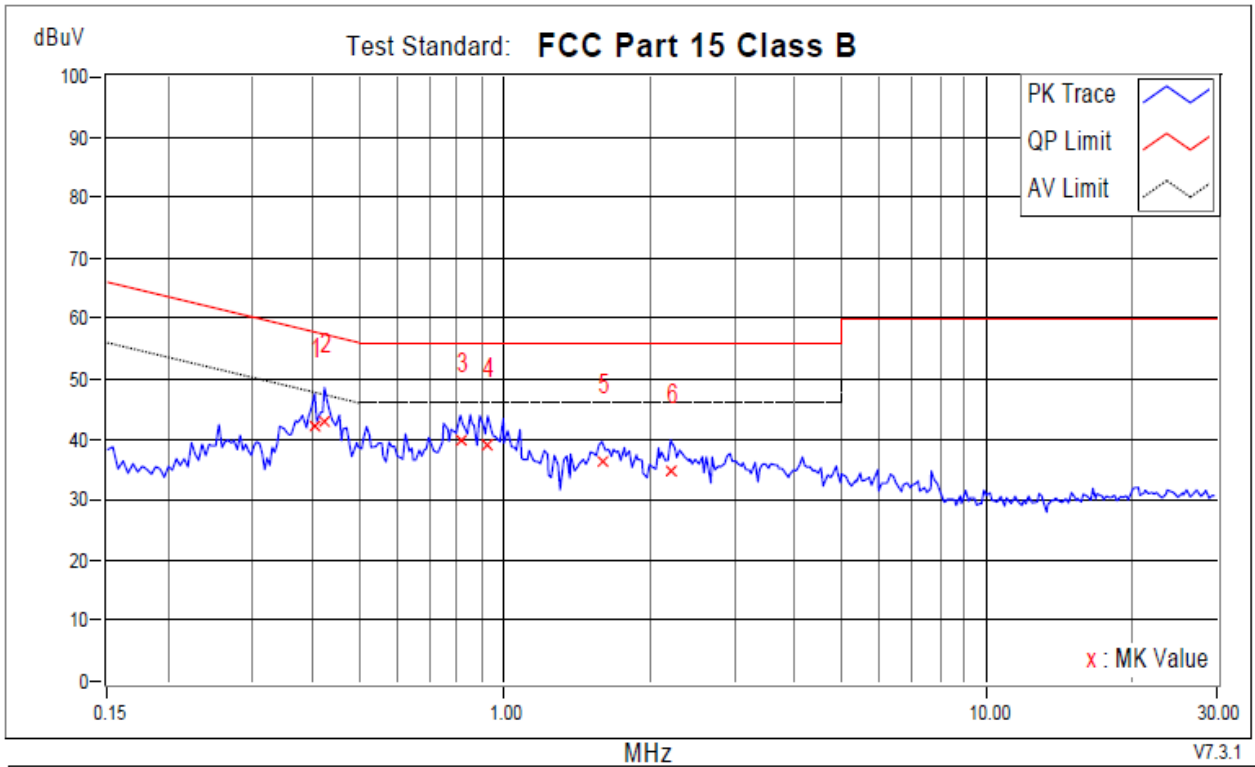


No.	Frequency MHz	Corr. Factor dB	Reading dBuV QP	Reading dBuV AV	Emission dBuV QP	Emission dBuV AV	Limit dBuV QP	Limit dBuV AV	Margins dB QP	Margins dB AV	Notes
+1	0.42761	9.70	40.08	23.04	49.78	32.74	57.30	47.30	-7.52	-14.56	
2	0.74041	9.59	35.38	23.52	44.97	33.11	56.00	46.00	-11.03	-12.89	
3	0.83425	9.58	36.82	24.04	46.40	33.62	56.00	46.00	-9.60	-12.38	
4	0.94373	9.59	34.01	23.66	43.60	33.25	56.00	46.00	-12.40	-12.75	
5	1.19159	9.62	27.14	18.13	36.76	27.75	56.00	46.00	-19.24	-18.25	
6	2.04006	9.75	29.10	17.20	38.85	26.95	56.00	46.00	-17.15	-19.05	

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

Phase: NEUTRAL



No.	Frequency MHz	Corr. Factor dB	Reading dBuV QP	Reading dBuV AV	Emission dBuV QP	Emission dBuV AV	Limit dBuV QP	Limit dBuV AV	Margins dB QP	Margins dB AV	Notes
1	0.40415	9.84	32.49	19.28	42.33	29.12	57.77	47.77	-15.43	-18.64	
+2	0.42370	9.84	33.11	22.40	42.95	32.24	57.38	47.38	-14.42	-15.13	
3	0.81079	9.88	30.15	18.89	40.03	28.77	56.00	46.00	-15.97	-17.23	
4	0.92418	9.89	29.24	19.34	39.13	29.23	56.00	46.00	-16.87	-16.77	
5	1.59432	9.90	26.47	16.96	36.37	26.86	56.00	46.00	-19.63	-19.14	
6	2.21210	9.92	24.77	14.31	34.69	24.23	56.00	46.00	-21.31	-21.77	

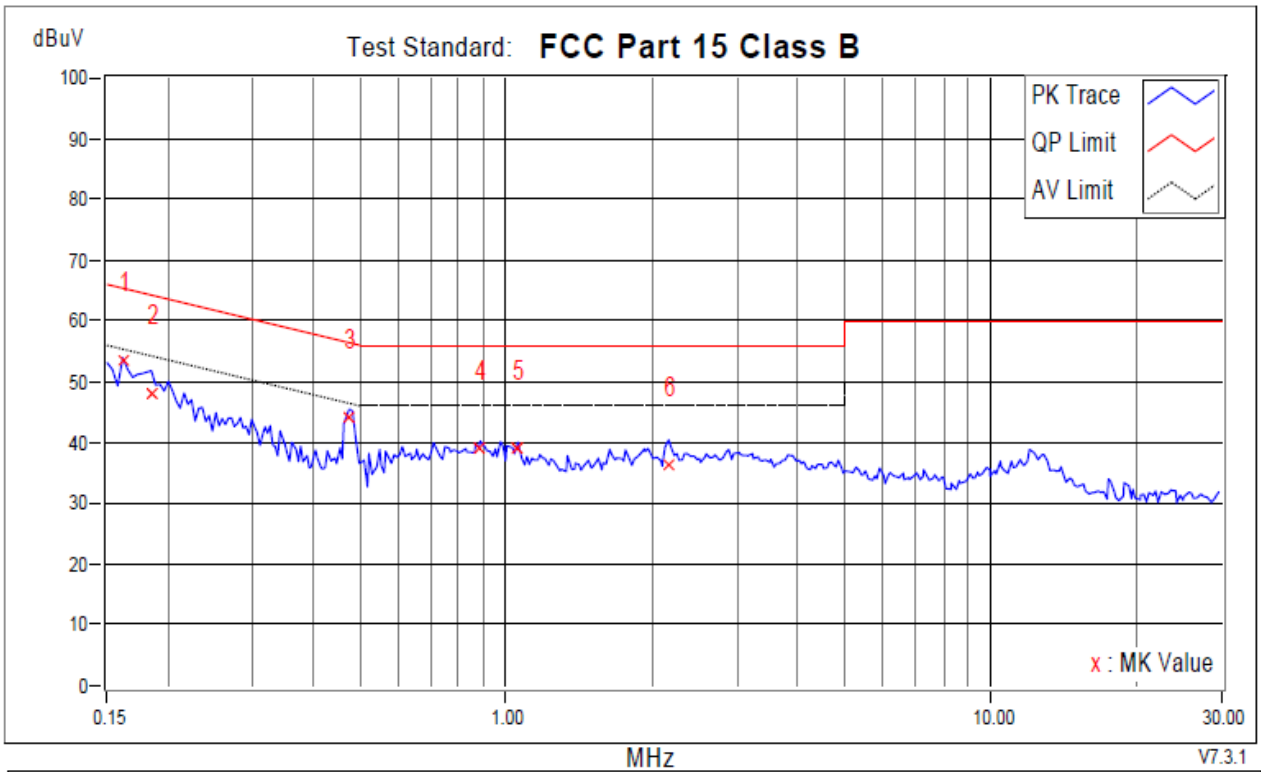
REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

For Adaptor 2: TPA-46B050100UU

120Vac/60Hz

Phase : LINE

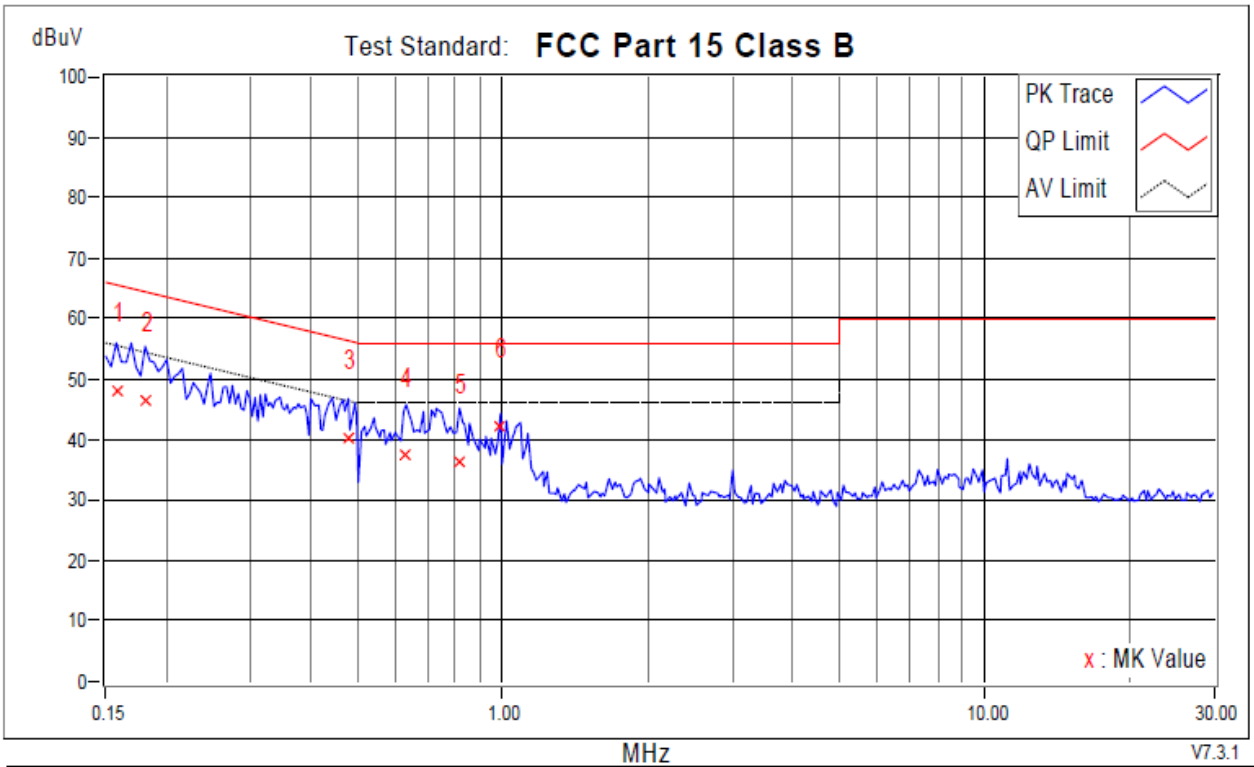


	Frequency	Corr. Factor	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
No.	MHz	dB	QP	AV	QP	AV	QP	AV	QP	AV	
+1	0.16173	9.83	43.63	25.42	53.46	35.25	65.37	55.37	-11.91	-20.12	
2	0.18519	9.84	38.34	21.21	48.18	31.05	64.25	54.25	-16.07	-23.20	
3	0.47453	9.71	34.53	21.59	44.24	31.30	56.43	46.43	-12.20	-15.14	
4	0.88508	9.58	29.63	21.75	39.21	31.33	56.00	46.00	-16.79	-14.67	
5	1.05865	9.60	29.43	22.73	39.03	32.33	56.00	46.00	-16.97	-13.67	
6	2.16909	9.76	26.40	17.90	36.16	27.66	56.00	46.00	-19.84	-18.34	

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

Phase : NEUTRAL



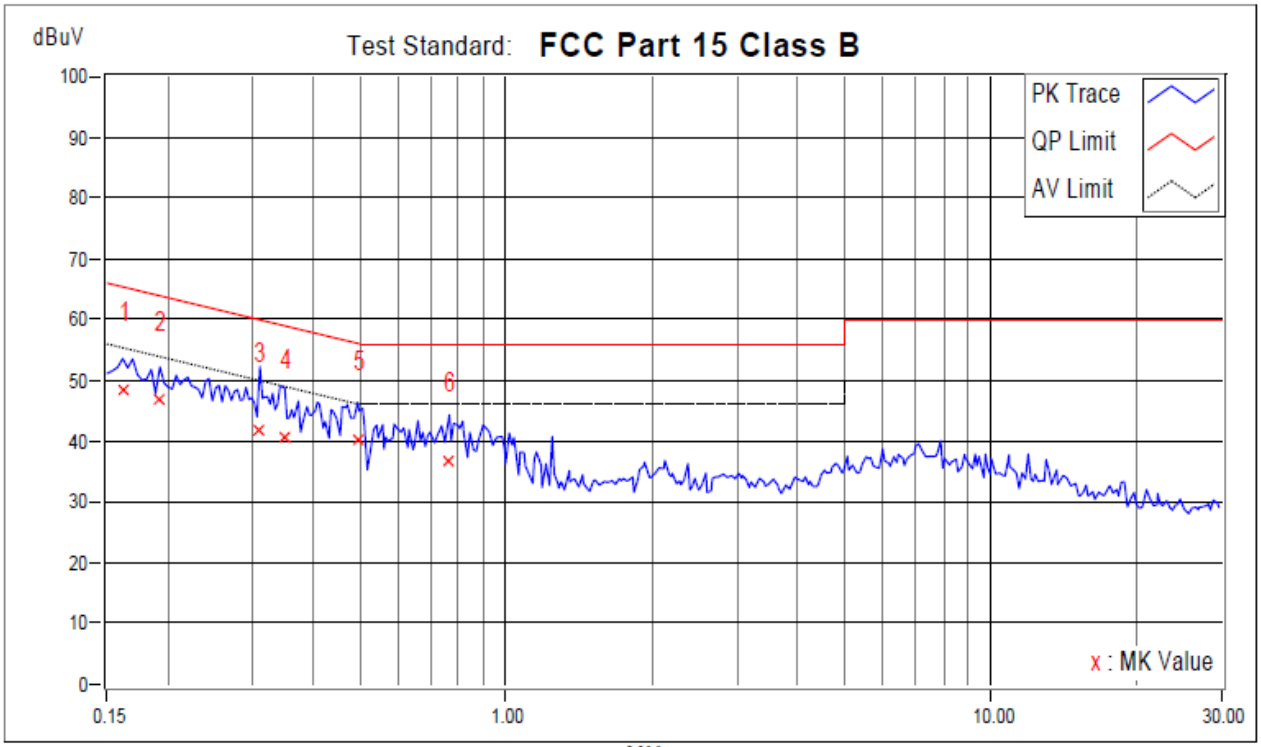
No.	Frequency MHz	Corr. Factor dB	Reading dBuV QP	Reading dBuV AV	Emission dBuV QP	Emission dBuV AV	Limit dBuV QP	Limit dBuV AV	Margins dB QP	Margins dB AV	Notes
1	0.15782	9.83	38.13	17.64	47.96	27.47	65.58	55.58	-17.62	-28.11	
2	0.18128	9.81	36.81	16.17	46.62	25.98	64.43	54.43	-17.81	-28.45	
3	0.47844	9.83	30.52	19.59	40.35	29.42	56.37	46.37	-16.01	-16.94	
4	0.63093	9.81	27.80	12.15	37.61	21.96	56.00	46.00	-18.39	-24.04	
5	0.81470	9.88	26.36	9.69	36.24	19.57	56.00	46.00	-19.76	-26.43	
+6	0.99065	9.89	32.20	10.81	42.09	20.70	56.00	46.00	-13.91	-25.30	

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

240Vac/50Hz

Phase: LINE

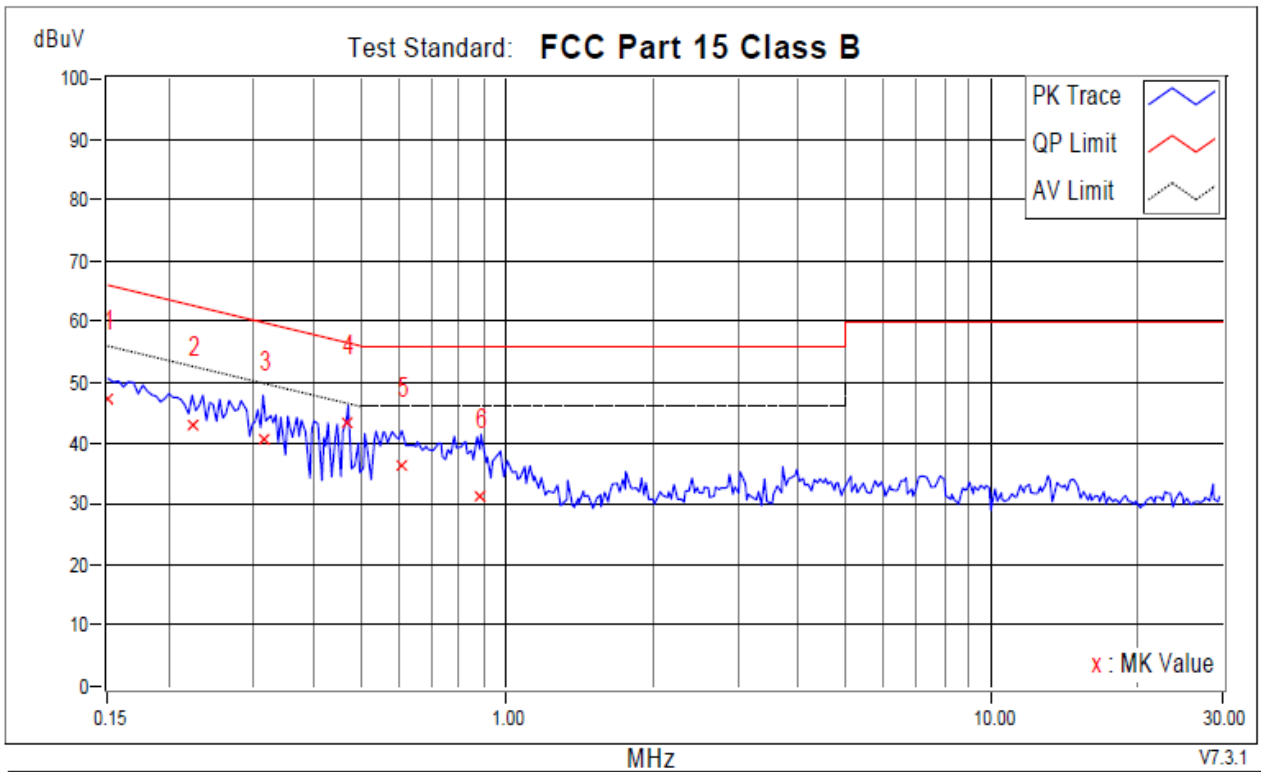


	Frequency	Corr. Factor	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
No.	MHz	dB	QP	AV	QP	AV	QP	AV	QP	AV	
1	0.16173	9.83	38.61	16.05	48.44	25.88	65.37	55.37	-16.93	-29.49	
2	0.19301	9.85	36.88	16.87	46.73	26.72	63.91	53.91	-17.18	-27.19	
3	0.31031	9.69	32.30	15.21	41.99	24.90	59.96	49.96	-17.97	-25.06	
4	0.34941	9.69	31.11	14.11	40.80	23.80	58.98	48.98	-18.17	-25.17	
+5	0.49408	9.71	30.54	11.57	40.25	21.28	56.10	46.10	-15.85	-24.82	
6	0.76387	9.58	27.03	12.69	36.61	22.27	56.00	46.00	-19.39	-23.73	

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

Phase: NEUTRAL



No.	Frequency MHz	Corr. Factor dB	Reading dBuV QP	Reading dBuV AV	Emission dBuV QP	Emission dBuV AV	Limit dBuV QP	Limit dBuV AV	Margins dB QP	Margins dB AV	Notes
1	0.15000	9.84	37.40	13.45	47.24	23.29	66.00	56.00	-18.76	-32.71	
2	0.22429	9.81	33.11	9.74	42.92	19.55	62.66	52.66	-19.74	-33.11	
3	0.31422	9.86	30.74	9.60	40.60	19.46	59.86	49.86	-19.26	-30.40	
+4	0.47062	9.83	33.37	20.74	43.20	30.57	56.50	46.50	-13.30	-15.93	
5	0.60747	9.81	26.42	8.96	36.23	18.77	56.00	46.00	-19.77	-27.23	
6	0.88508	9.88	21.49	3.63	31.37	13.51	56.00	46.00	-24.63	-32.49	

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

4.6 Test Photographs

Please refer to the attached file (Test Setup Photo).

5 Test of Radiated Emission

5.1 Test Limit

TEST STANDARD:

CFR 47 FCC Part 15, Subpart B (Section: 15.109)

FOR FREQUENCY BELOW 1000 MHz

FREQUENCY (MHz)	Class A (at 10m)		Class B (at 3m)	
	μV/m	dBμV/m	μV/m	dBμV/m
30 – 88	90	39.1	100	40.0
88 – 216	150	43.5	150	43.5
216 – 960	210	46.4	200	46.0
960 – 1000	300	49.5	500	54.0

LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

FREQUENCY (MHz)	Class A (dBμV/m) (at 3m)		Class B (dBμV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0

Note: 1.The lower limit shall apply at the transition frequencies.

2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

3. All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

5.2 Test Procedures

1. The EUT was placed on a rotatable table top 0.8 meter above ground.
2. The EUT was set 3/10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
5. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.

5.3 Typical Test Setup

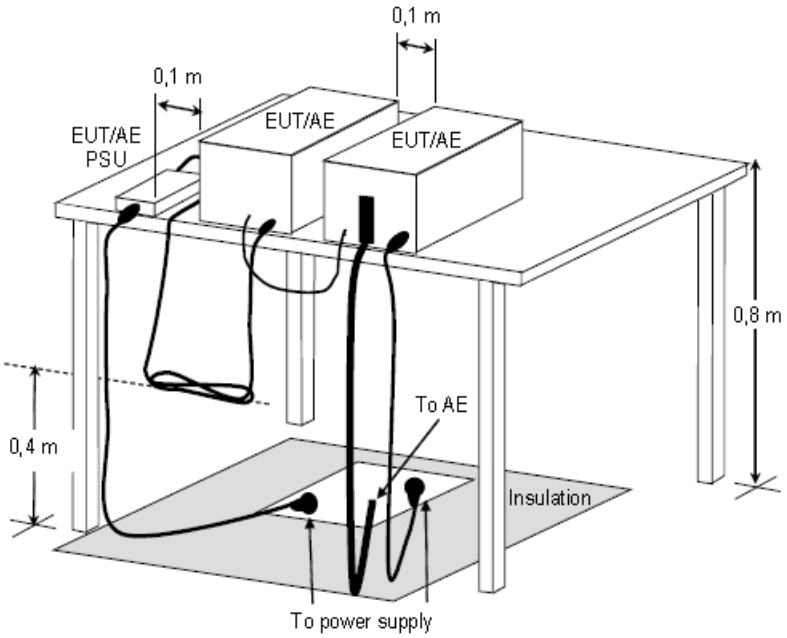


Figure D.8 – Example measurement arrangement for table-top EUT (Radiated emission measurement)

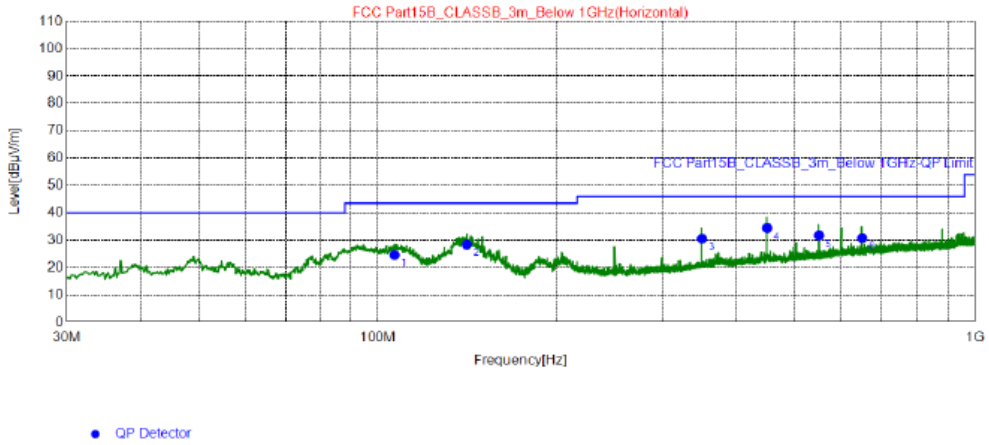
5.4 Measurement Equipment

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
EMI Test Spectrum ROHDE & SCHWARZ	ESR7	E1R1005	May.11, 2021
Spectrum Analyzer Keysight	N9030B	E1S1003	Aug.03, 2021
Broad-Band Antenna Schwarzbeck	VULB9168	E1A1012	Jul.27, 2021
Double Riaged Vroadband Horn Antenna Schwarzbeck	BBHA9120D	E1A1017	Jan.25, 2021
Preamplifier Agilent	8447D	E1A2001	Apr.19, 2021
Preamplifier Agilent	EMC051845SE	E1A2009	Jul.05, 2021

5.5 Test Result and Data (30MHz ~ 1GHz)

For adaptor 1: KA06E-0501000US

Position: Horizontal

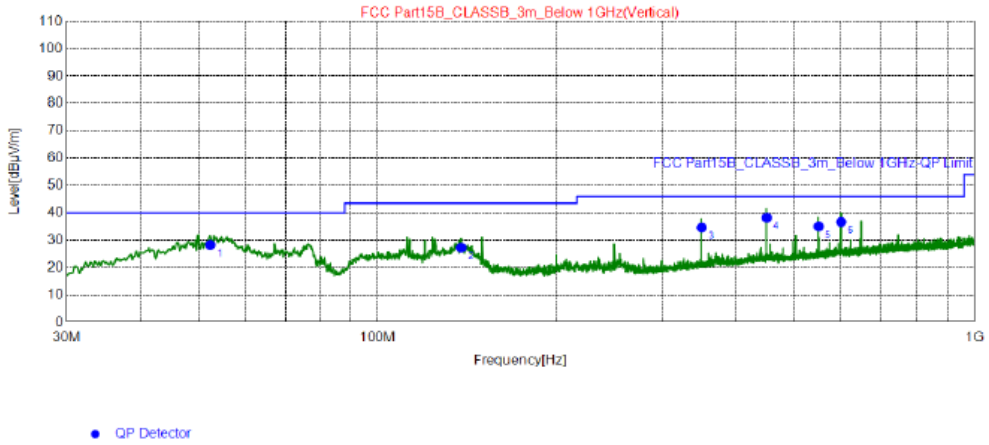


Final Data List									
NO.	Freq. [MHz]	QP Reading [dBµV/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	106.6	38.72	-14.15	24.57	43.50	18.93	200	82	Horizontal
2	140.9	38.67	-10.30	28.37	43.50	15.13	200	278	Horizontal
3	349.9	38.01	-7.42	30.59	46.00	15.41	200	336	Horizontal
4	450.0	39.54	-5.13	34.41	46.00	11.59	200	255	Horizontal
5	550.1	35.38	-3.69	31.69	46.00	14.31	200	105	Horizontal
6	650.0	32.88	-2.08	30.80	46.00	15.20	200	220	Horizontal

REMARKS:

1. Q.P. is abbreviation of quasi-peak individually.
2. The emission levels of other frequencies were very low against the limit.
3. QP Margin value = QP Limit value – QP value.
4. Factor = Antenna Factor + Amplifier Factor + Cable loss.
5. QP value = Factor + Reading Value.

Position: Vertical



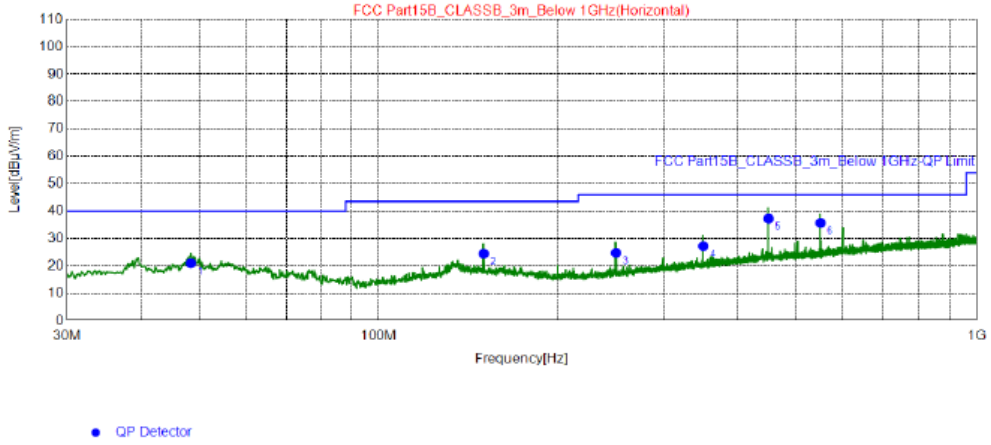
Final Data List									
NO.	Freq. [MHz]	QP Reading [dBµV/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.31	38.1	-9.83	28.27	40.00	11.73	100	240	Vertical
2	138.0	37.78	-10.54	27.24	43.50	16.26	100	171	Vertical
3	349.9	42	-7.42	34.58	46.00	11.42	100	167	Vertical
4	450.0	43.32	-5.13	38.19	46.00	7.81	100	121	Vertical
5	550.1	38.67	-3.69	34.98	46.00	11.02	100	240	Vertical
6	599.9	39.09	-2.43	36.66	46.00	9.34	100	221	Vertical

REMARKS:

1. Q.P. is abbreviation of quasi-peak individually.
2. The emission levels of other frequencies were very low against the limit.
3. QP Margin value = QP Limit value – QP value
4. Factor = Antenna Factor + Amplifier Factor + Cable loss
5. QP value = Factor + Reading Value.

For adaptor 2: TPA-46B050100UU

Position: Horizontal

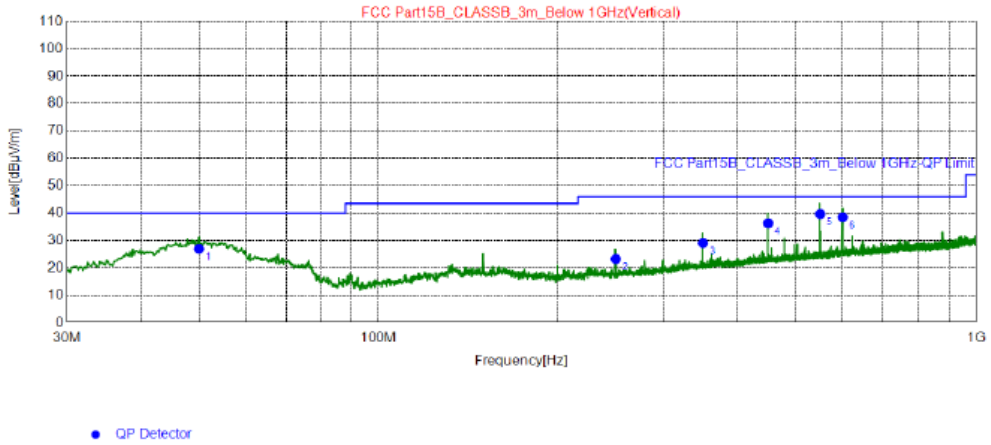


Final Data List									
NO.	Freq. [MHz]	QP Reading [dBµV/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.43	30.72	-9.82	20.90	40.00	19.10	200	143	Horizontal
2	149.8	34.46	-10.04	24.42	43.50	19.08	200	266	Horizontal
3	249.9	35.29	-10.57	24.72	46.00	21.28	200	124	Horizontal
4	349.9	34.6	-7.42	27.18	46.00	18.82	200	97	Horizontal
5	450.0	42.34	-5.13	37.21	46.00	8.79	200	232	Horizontal
6	550.1	39.36	-3.69	35.67	46.00	10.33	200	208	Horizontal

REMARKS:

1. Q.P. is abbreviation of quasi-peak individually.
2. The emission levels of other frequencies were very low against the limit.
3. QP Margin value = QP Limit value – QP value.
4. Factor = Antenna Factor + Amplifier Factor + Cable loss.
5. QP value = Factor + Reading Value.

Position: Vertical



Final Data List									
NO.	Freq. [MHz]	QP Reading [dBµV/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.98	36.61	-9.70	26.91	40.00	13.09	100	206	Vertical
2	249.9	33.77	-10.57	23.20	46.00	22.80	100	360	Vertical
3	349.9	36.44	-7.42	29.02	46.00	16.98	100	190	Vertical
4	450.0	41.45	-5.13	36.32	46.00	9.68	100	117	Vertical
5	550.1	43.3	-3.69	39.61	46.00	6.39	100	252	Vertical
6	599.9	40.9	-2.43	38.47	46.00	7.53	100	225	Vertical

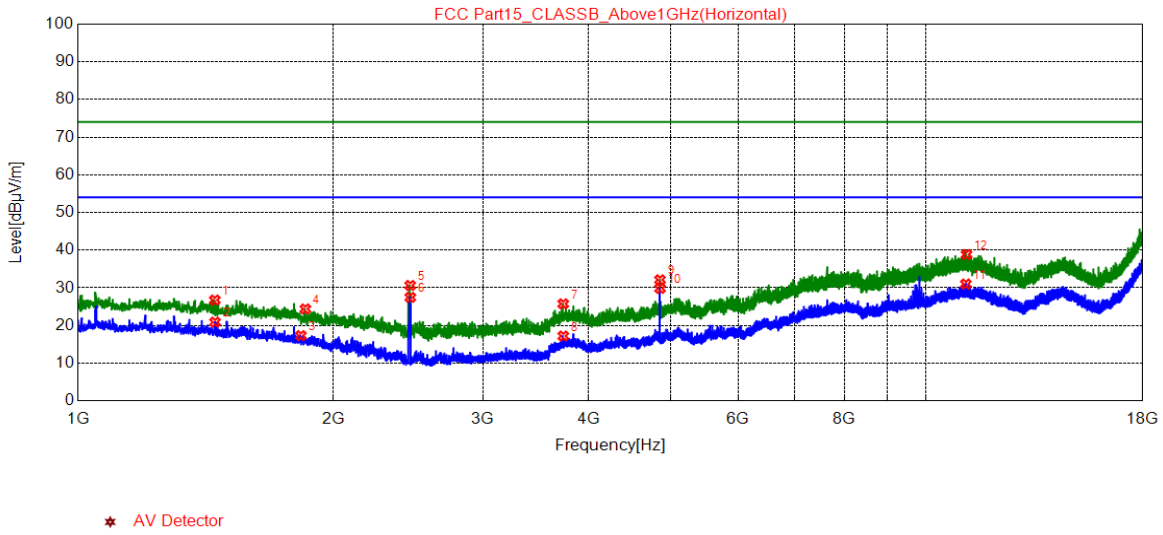
REMARKS:

1. Q.P. is abbreviation of quasi-peak individually.
2. The emission levels of other frequencies were very low against the limit.
3. QP Margin value = QP Limit value – QP value
4. Factor = Antenna Factor + Amplifier Factor + Cable loss
5. QP value = Factor + Reading Value.

5.6 Test Result and Data (1GHz ~ 18GHz)

For adaptor 1: KA06E-0501000US

Position: Horizontal

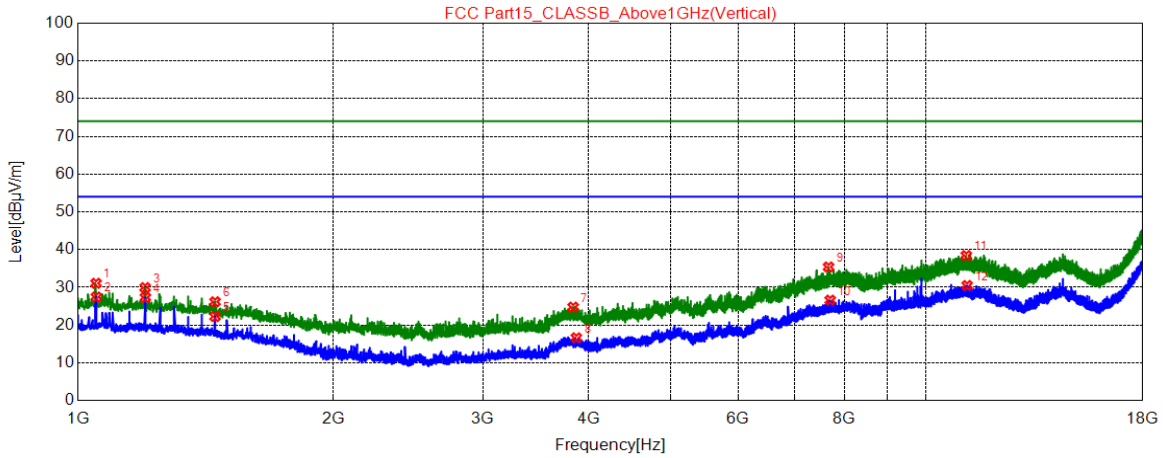


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Detector
1	1449.650	44.81	26.74	74.00	47.26	100	151	Horizonta	PK
2	1450.500	38.95	20.88	54.00	33.12	100	268	Horizonta	AV
3	1831.300	34.45	17.31	54.00	36.69	100	311	Horizonta	AV
4	1853.400	41.49	24.39	74.00	49.61	100	192	Horizonta	PK
5	2463.700	46.46	30.63	74.00	43.37	100	192	Horizonta	PK
6	2464.550	43.27	27.45	54.00	26.55	100	192	Horizonta	AV
7	3731.900	37.92	25.75	74.00	48.25	100	268	Horizonta	PK
8	3732.750	29.37	17.20	54.00	36.80	100	268	Horizonta	AV
9	4853.900	41.48	32.12	74.00	41.88	100	68	Horizonta	PK
10	4854.750	39.20	29.84	54.00	24.16	100	68	Horizonta	AV
11	11133.70	29.42	31.00	54.00	23.00	100	268	Horizonta	AV
12	11152.40	37.23	38.83	74.00	35.17	100	230	Horizonta	PK

REMARKS:

1. The emission levels of other frequencies were very low against the limit.
2. Margin = Limit –Level

Position: Vertical



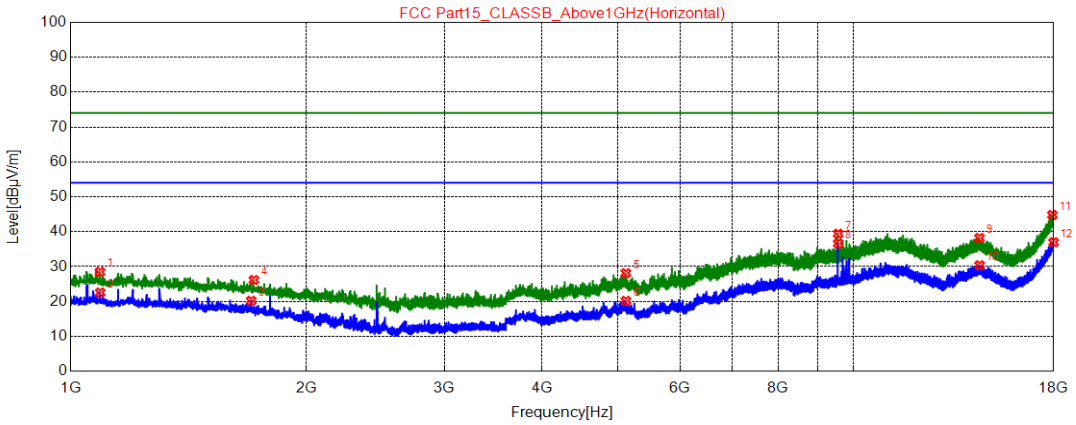
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle[°]	Polarity	Detector
1	1050.1500	50.41	31.08	74.00	42.92	100	185	Vertical	PK
2	1051.0000	46.76	27.44	54.00	26.56	100	185	Vertical	AV
3	1199.7500	48.76	29.93	74.00	44.07	100	147	Vertical	PK
4	1200.6000	46.14	27.31	54.00	26.69	100	185	Vertical	AV
5	1450.5000	40.34	22.27	54.00	31.73	100	185	Vertical	AV
6	1450.5000	44.24	26.17	74.00	47.83	100	185	Vertical	PK
7	3833.9000	36.70	24.76	74.00	49.24	100	301	Vertical	PK
8	3867.9000	28.49	16.63	54.00	37.37	100	31	Vertical	AV
9	7669.9500	38.92	35.40	74.00	38.60	100	31	Vertical	PK
10	7703.1000	30.05	26.60	54.00	27.40	100	31	Vertical	AV
11	11146.450	36.81	38.40	74.00	35.60	100	69	Vertical	PK
12	11171.100	28.86	30.48	54.00	23.52	100	69	Vertical	AV

REMARKS:

1. The emission levels of other frequencies were very low against the limit.
2. Margin = Limit –Level

For adaptor 2: TPA-46B050100UU

Position: Horizontal

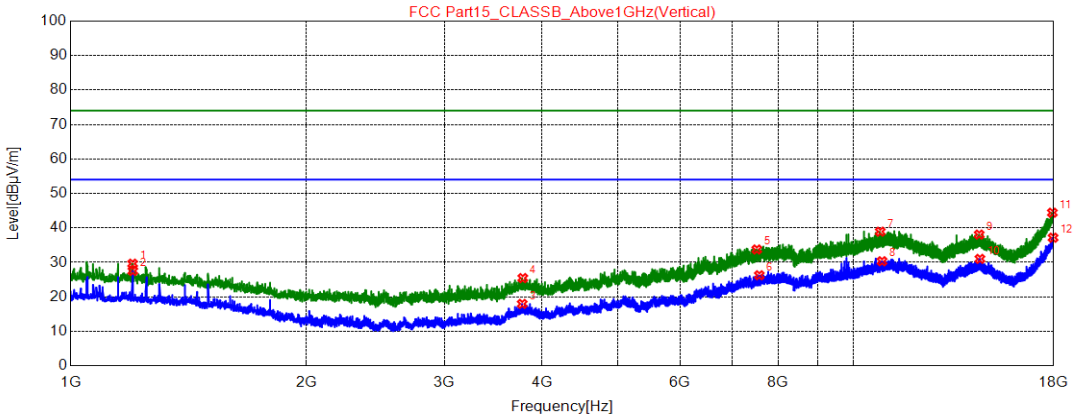


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle[°]	Polarity	Detector
1	1090.1000	47.66	28.46	74.00	45.54	100	110	Horizont	PK
2	1090.9500	41.75	22.56	54.00	31.44	100	71	Horizont	AV
3	1700.4000	37.62	20.19	54.00	33.81	100	186	Horizont	AV
4	1714.0000	43.55	26.15	74.00	47.85	100	301	Horizont	PK
5	5116.5500	37.17	28.11	74.00	45.89	100	110	Horizont	PK
6	5117.4000	29.22	20.16	54.00	33.84	100	110	Horizont	AV
7	9551.8500	41.23	39.42	74.00	34.58	100	110	Horizont	PK
8	9552.7000	38.43	36.62	54.00	17.38	100	110	Horizont	AV
9	14469.950	34.43	38.20	74.00	35.80	100	263	Horizont	PK
10	14475.900	26.59	30.37	54.00	23.63	100	263	Horizont	AV
11	17926.050	33.49	44.80	74.00	29.20	100	110	Horizont	PK
12	17994.900	25.05	36.96	54.00	17.04	100	110	Horizont	AV

REMARKS:

1. The emission levels of other frequencies were very low against the limit.
2. Margin = Limit –Level

Position: Vertical



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle[°]	Polarity	Detector
1	1199.7500	48.45	29.62	74.00	44.38	100	175	Vertical	PK
2	1200.6000	46.34	27.51	54.00	26.49	100	175	Vertical	AV
3	3772.7000	30.04	17.96	54.00	36.04	100	293	Vertical	AV
4	3778.6500	37.52	25.45	74.00	48.55	100	255	Vertical	PK
5	7518.6500	37.55	33.75	74.00	40.25	100	59	Vertical	PK
6	7574.7500	29.96	26.26	54.00	27.74	100	293	Vertical	AV
7	10808.150	37.99	38.91	74.00	35.09	100	98	Vertical	PK
8	10865.950	29.26	30.32	54.00	23.68	100	20	Vertical	AV
9	14458.900	34.31	38.06	74.00	35.94	100	98	Vertical	PK
10	14487.800	27.22	31.02	54.00	22.98	100	214	Vertical	AV
11	17928.600	33.07	44.41	74.00	29.59	100	255	Vertical	PK
12	17965.150	25.51	37.16	54.00	16.84	100	20	Vertical	AV

REMARKS:

1. The emission levels of other frequencies were very low against the limit.
2. Margin = Limit –Level

5.7 Test Photographs (30MHz ~ 1000MHz)

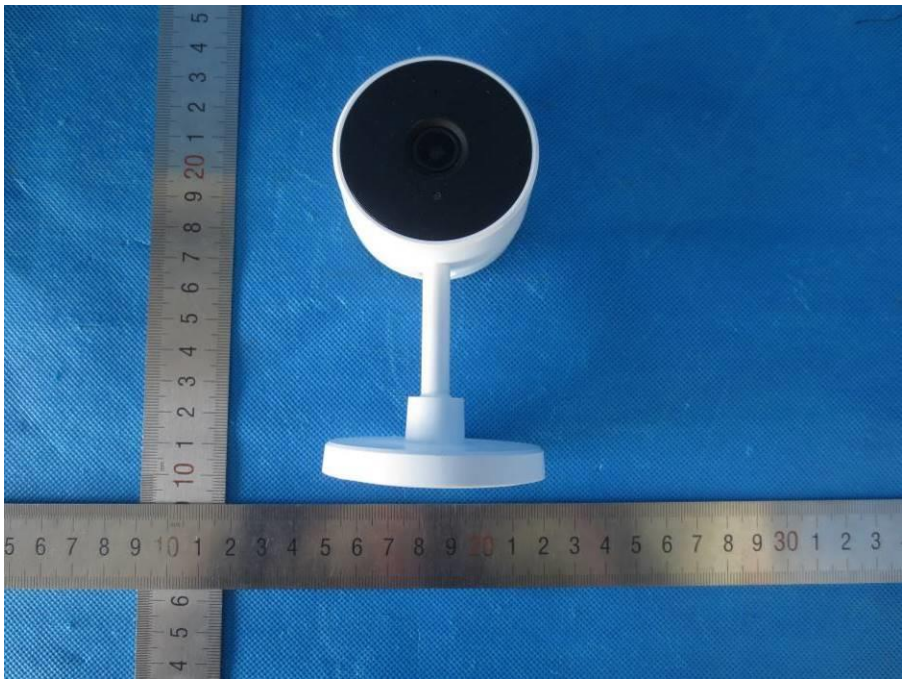
Please refer to the attached file (Test Setup Photo).

5.8 Test Photographs (1000MHz ~ 18000MHz)

Please refer to the attached file (Test Setup Photo).

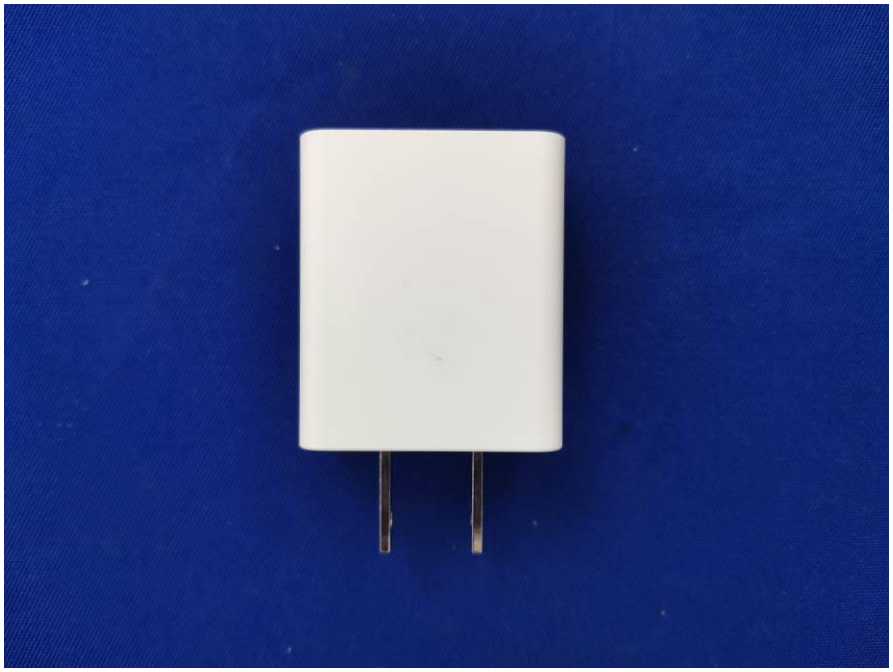
6 Photographs of EUT

SC101-WA2

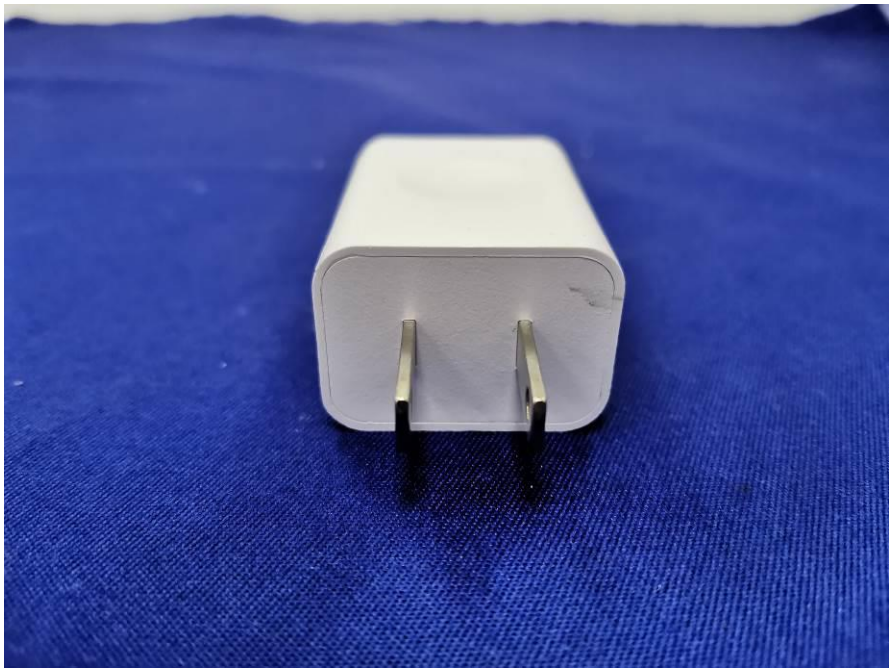


SC101-WO2

Adaptor: KA06E-0501000US



Adaptor: TPA-46B050100UU



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