

FCC TEST REPORT

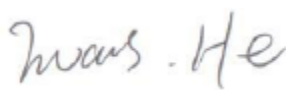
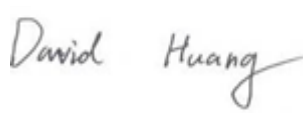
Applicant	Earda Technologies Co., Ltd
Address	Block A, LianFeng Creative Industry Park, NO.2 JiSheng Road, HuangGe Town, Nansha District, Guangzhou, PRC.

Manufacturer	Earda Technologies Co., Ltd
Address	Block A, LianFeng Creative Industry Park, NO.2 JiSheng Road, HuangGe Town, Nansha District, Guangzhou, PRC.
Product	Smart Dimmer Switch
Brand Name	NONE
Model	EDM-00AA-US
Additional Model	EDM-00Ax-US
Date of tests	April 06 to April 22, 2019

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

☒ **FCC Part 15, Subpart B, Class B**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Evans He Project Engineer/ EMC Department	Approved by David Huang Supervisor / EMC Department
	

Date: April 23, 2019

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**BUREAU
VERITAS**

Test Report No.: FS 190422N040

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS 190422N040	Original release	April 23, 2019



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B			
Standard Section	Test Item	Result	Remark
FCC Part 15, Subpart B, Class B	Conducted test	PASS	Meets limits minimum passing margin is -11.17 dB at 0.1539 MHz
	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets limits minimum passing margin is -9.82 dB at 34.2760 MHz
	Radiated Emission Test (Above 1GHz)	PASS	Meets limits minimum passing margin is -22.21 dB at 1315.42 MHz

Remark: Please refer to FCC part 2 2.1077 for sDoC compliance information requirement

NOTE: Test Lab Information:

Lab: Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

Test Lab Address: Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
South Side of Zhoushi Road, Bao'an District Shenzhen, Guangdong, 518108,
People's Republic of China

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT 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 $k=2$.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emission test	0.15MHz ~ 30MHz	$\pm 3.11\text{dB}$
Radiated emissions	30MHz ~ 1GHz	$\pm 5.12\text{dB}$
	Above 1GHz	$\pm 5.34\text{dB}$



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Dimmer Switch
FCC ID	2AMM6-EDM00A
MODEL NO.	EDM-00AA-US
ADDITIONAL MODEL	EDM-00Ax-US
POWER SUPPLY	AC 120V,60Hz
CABLE SUPPLIED	N/A
THE HIGHEST OPERATING FREQUENCY	2400MHz

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 190422N040) for detailed product photo.
4. Additional models (see about table) are identical with the test model EDM-00AA-US except the color 、 the appearance、 customer and packaging.

2.2 DESCRIPTION OF TEST MODES

The EUT were tested under the following modes, the final worst mode was marked in boldface and recorded in this report.

Conducted Emission TEST:

Description of Test Mode	Test Voltage
Normal Working	AC 120V, 60Hz

Radiated Emission TEST(Below 1GHz):

Description of Test Mode	Test Voltage
Normal Working	AC 120V, 60Hz

Radiated Emission TEST(Above1GHz):

Description of Test Mode	Test Voltage
Normal Working	AC 120V, 60Hz

2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit without any other necessary accessories or support units.

representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	LAMP FOR SHIP	BISTAR	300WE40	N/A	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
5	AC Line: Unshielded, 1.5m



3 EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	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 0.50 MHz.
 - (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.

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCS30	8471241027	Jan. 05,19	Jan. 04,20
Artificial Mains Network	SCHWARZBECK	8127	8127713	Jan. 05,19	Jan. 04,20
Test software	EZ-EMC	ICP-03A1	N/A	N/A	N/A

- NOTE:**
1. The test was performed at Shielded Room 843.
 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



3.1.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2014 (section 7).

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20dB) were not recorded.

NOTE:

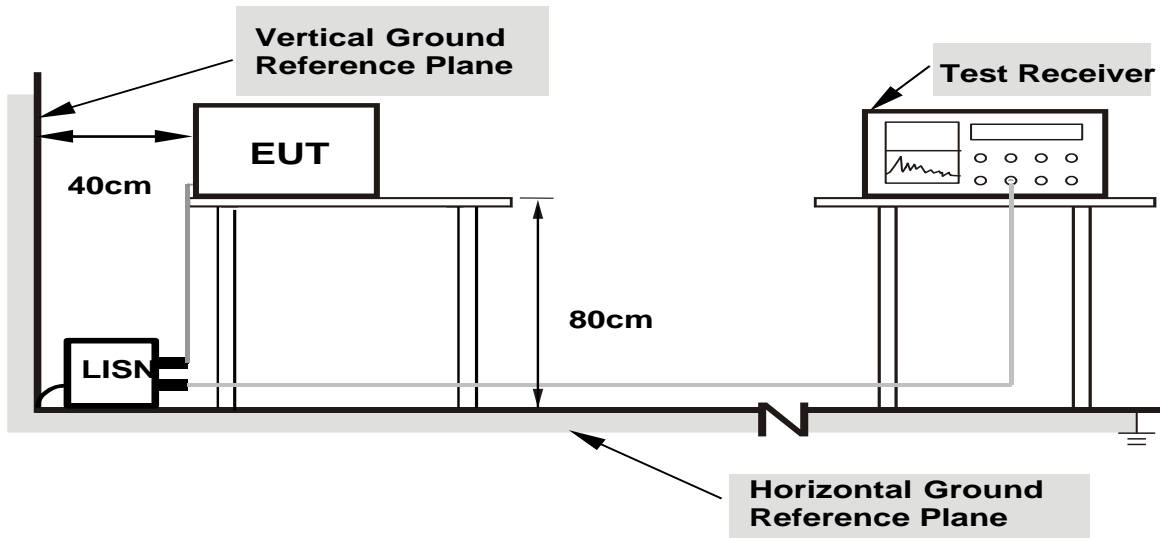
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.



3.1.5 TEST SETUP



- Note:** 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

3.1.6 EUT OPERATING CONDITIONS

- Turned on the power of all equipment.
- EUT was operated according to the type description in manufacturer's specifications or the User's Manual.

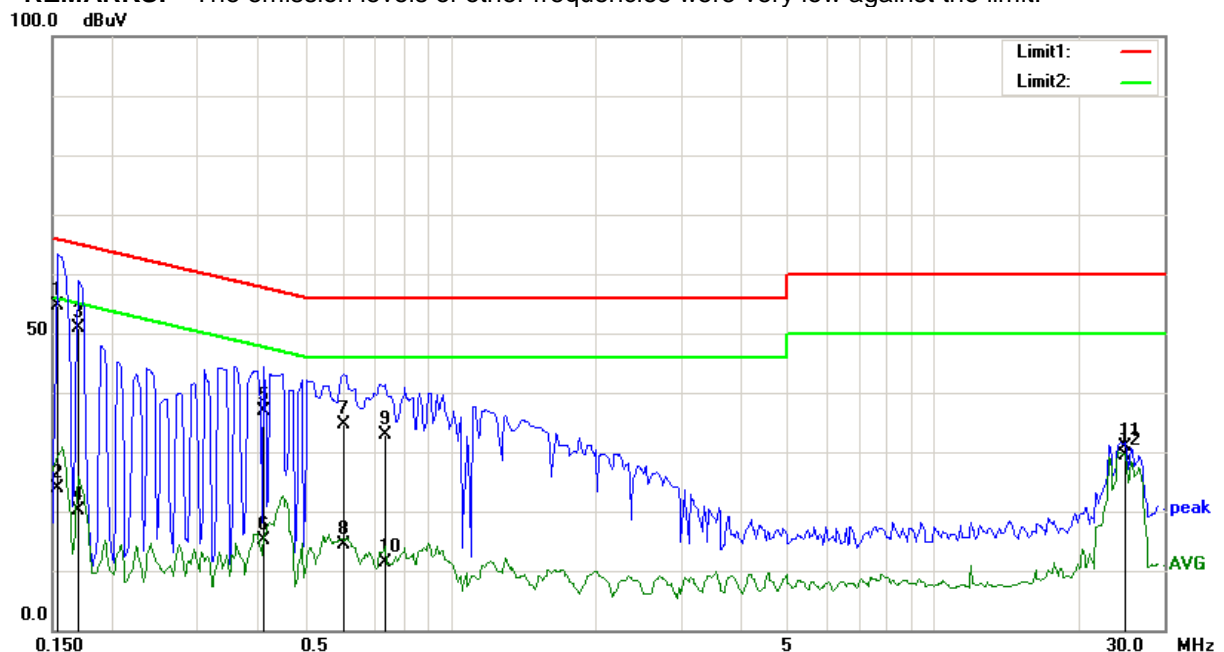


3.1.7 TEST RESULTS

TEST MODE	Normal Working	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	AC 120V/60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	26.4deg. C, 58% RH	TESTED BY	Evans He

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.1539	44.56	QP	10.03	54.59	65.79	-11.20
2	L1	0.1539	13.74	AVG	10.03	23.77	55.79	-32.02
3	L1	0.1695	40.85	QP	10.03	50.88	64.98	-14.10
4	L1	0.1695	10.10	AVG	10.03	20.13	54.98	-34.85
5	L1	0.4113	26.76	QP	10.03	36.79	57.62	-20.83
6	L1	0.4113	5.18	AVG	10.03	15.21	47.62	-32.41
7	L1	0.6024	24.69	QP	10.03	34.72	56.00	-21.28
8	L1	0.6024	4.43	AVG	10.03	14.46	46.00	-31.54
9	L1	0.7350	22.85	QP	10.03	32.88	56.00	-23.12
10	L1	0.7350	1.45	AVG	10.03	11.48	46.00	-34.52
11	L1	24.9609	20.44	QP	10.39	30.83	60.00	-29.17
12	L1	24.9609	19.09	AVG	10.39	29.48	50.00	-20.52

REMARKS: The emission levels of other frequencies were very low against the limit.

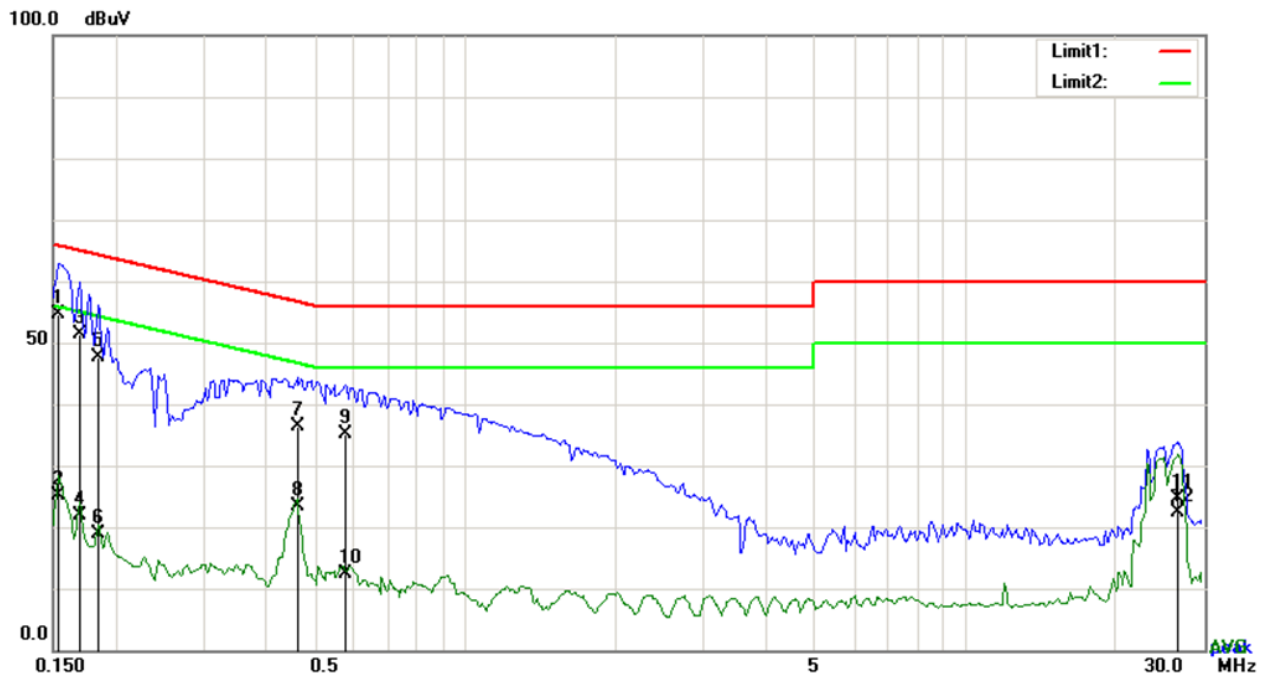




TEST MODE	Normal Working	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	AC 120V/60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	26.4deg. C, 58% RH	TESTED BY	Evans He

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.1539	44.60	QP	10.02	54.62	65.79	-11.17
2	N	0.1539	14.99	AVG	10.02	25.01	55.79	-30.78
3	N	0.1695	41.31	QP	10.02	51.33	64.98	-13.65
4	N	0.1695	11.78	AVG	10.02	21.80	54.98	-33.18
5	N	0.1851	37.71	QP	10.02	47.73	64.25	-16.52
6	N	0.1851	8.75	AVG	10.02	18.77	54.25	-35.48
7	N	0.4620	26.35	QP	10.02	36.37	56.66	-20.29
8	N	0.4620	13.32	AVG	10.02	23.34	46.66	-23.32
9	N	0.5790	25.16	QP	10.02	35.18	56.00	-20.82
10	N	0.5790	2.40	AVG	10.02	12.42	46.00	-33.58
11	N	26.6730	14.18	QP	10.37	24.55	60.00	-35.45
12	N	26.6730	12.12	AVG	10.37	22.49	50.00	-27.51

REMARKS: The emission levels of other frequencies were very low against the limit.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 10 meters (dBµV/m)				
Frequencies (MHz)	FCC 15B/ ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	39	29.5	40	30
88-216	43.5	33.1		
216-230	46.4	35.6		
230-960				
960-1000	49.5	43.5	47	37
1000-3000	Avg: 49.5	Avg: 43.5	Not defined	Not defined
Above 3000	Peak: 69.5	Peak: 63.5	Not defined	Not defined

Radiated Emissions Limits at 3 meters (dBμV/m)				
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	49.5	40	50.5	40.5
88-216	54	43.5		
216-230	56.9	46		
230-960			57.5	47.5
960-1000	60	54		
1000-3000	Avg: 60 Peak: 80	Avg: 54 Peak: 74	Avg: 56 Peak: 76	Avg: 50 Peak: 70
Above 3000			Avg: 60 Peak: 80	Avg: 54 Peak: 74



FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

- 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.



3.2.2 TEST INSTRUMENTS

FREQUENCY RANGE BELOW 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESL6	1300.5001K06-1 00262-eQ	Jan. 05, 19	Jan. 04, 20
Bilog Antenna	Sunol Sciences	JB6	A110712	Feb. 08, 19	Feb. 07, 20
Signal Amplifier	HP	8447E	443008	Jan. 25,19	Jan. 24,20
3m Semi-anechoic Chamber	SAEMC	9m*6m*6m	N/A	Oct. 19,18	Oct. 18,21
Test Software	EZ-EMC	ICP-03A1	N/A	N/A	N/A

- NOTES:** 1. The test was performed in 966 Chamber (a 3m Semi-anechoic chamber).
 2. The calibration interval of the above test instruments is 12 months(Except 3m Semi-anechoic Chamber). And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 3. The FCC Site Registration No. is 749762.

FREQUENCY RANGE ABOVE 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESL6	1300.5001K06-10 0262-eQ	Jan. 05, 19	Jan. 04, 20
MXA signal analyzer	Agilent	N9020A	MY49100060	Jan. 05, 19	Jan. 04, 20
Horn Antenna	COM-POWER	HAH-118	71259	Jan. 26,19	Jan. 25,20
Horn Antenna	COM-POWER	HAH-118	71283	Feb. 02, 19	Feb. 01, 20
AMPLIFIER	EM Electornic Corporation	EM01G26G	60613	Jan. 25,19	Jan. 24,20
AMPLIFIER	Emc Instruments Corporation	Emc012645	980077	Jan. 05, 19	Jan. 04, 20
3m Semi-anechoic Chamber	SAEMC	9m*6m*6m	N/A	Oct. 19,18	Oct. 18,21
Test Software	EZ-EMC	ICP-03A1	N/A	N/A	N/A

- NOTES:** 1. The test was performed in 966 Chamber (a 3m Semi-anechoic chamber).
 2. The calibration interval of the above test instruments is 12 months(Except 3m Semi-anechoic Chamber). And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 3. The FCC Site Registration No. is 749762.



3.2.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

<Frequency Range below 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

NOTE:

1. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
2. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
3. Result level (dBuV/m) = Reading level(dBuV/m) + Correction Factor(dB/m)
4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier)
5. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier).
6. Margin value = Result level – Limit value

**<Frequency Range above 1GHz>**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter-to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The bore sight should be used during the test above 1GHz.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

NOTE:

1. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
2. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
3. Result level (dBuV/m)= Reading level(dBuV/m) + Correction Factor(dB/m)
4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier)
5. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier).
6. Margin value = Result level – Limit value

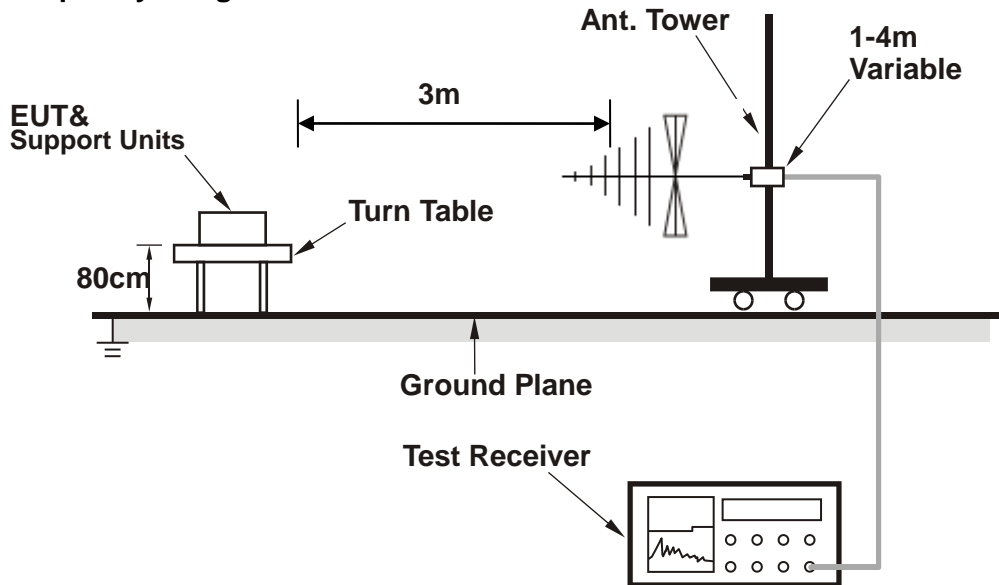
3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

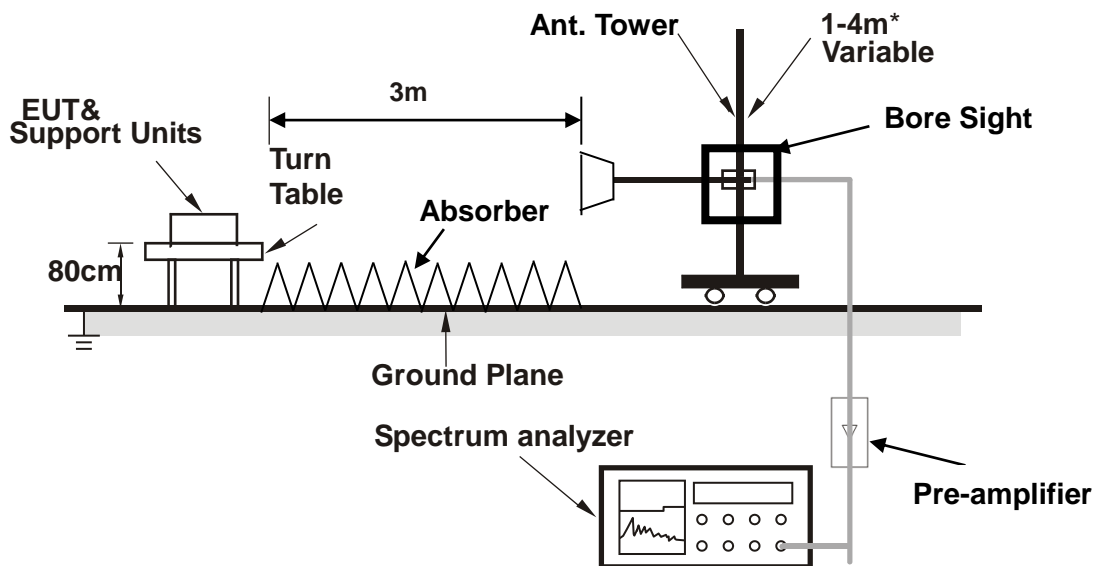


3.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



* : depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

3.2.6 EUT OPERATING CONDITIONS

- Turn on the power supply of the EUT.
- EUT was operated according to the type description in manufacturer's specifications or the User's Manual.



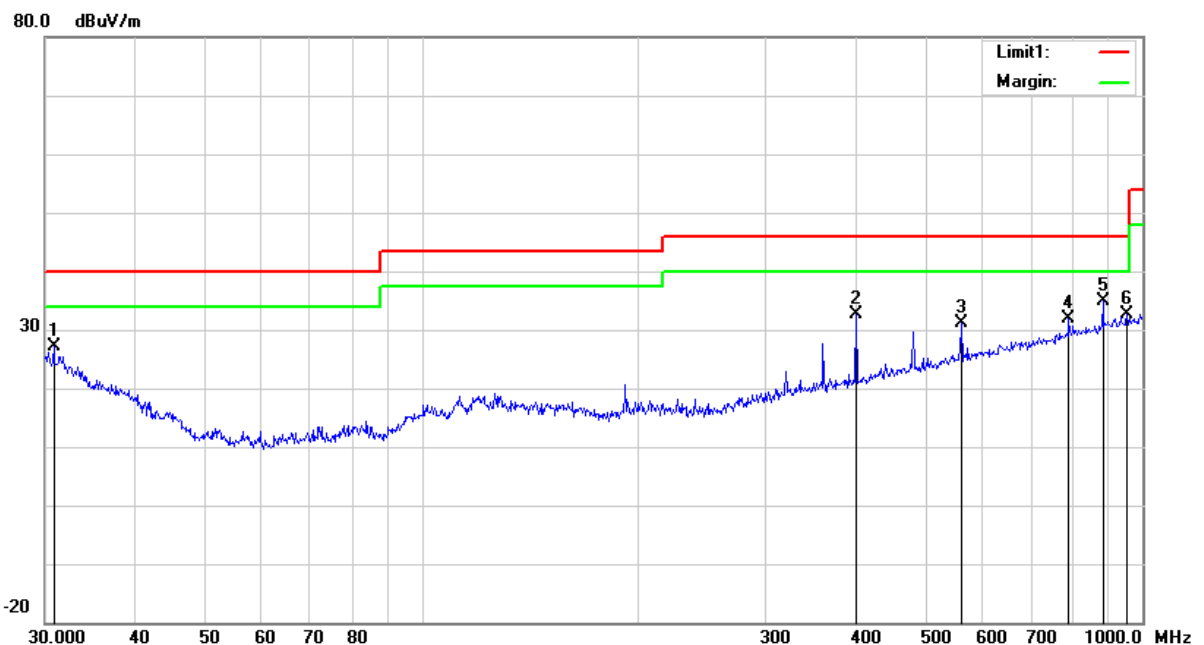
3.2.7 TEST RESULTS

TEST MODE	Mormal Working	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	AC 120V, 60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	25.2deg. C, 55.5% RH	TESTED BY: Evans He	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m										
No.	Frequency (MHz)	Reading (dBuV/m)	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	30.8535	27.91	20.74	22.27	0.64	27.02	40.00	-12.98	100	54
2	400.4319	36.81	15.71	22.01	2.01	32.52	46.00	-13.48	100	181
3	560.6928	31.79	18.55	21.67	2.48	31.15	46.00	-14.85	200	45
4	790.6188	28.74	21.29	21.17	2.94	31.80	46.00	-14.20	100	118
5	881.4067	30.55	22.30	20.93	3.00	34.92	46.00	-11.08	100	11
6	952.0937	27.56	22.76	20.78	3.18	32.72	46.00	-13.28	100	197

REMARKS:

1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30MHz to 1000MHz.
4. Only emissions significantly above equipment noise floor are reported.

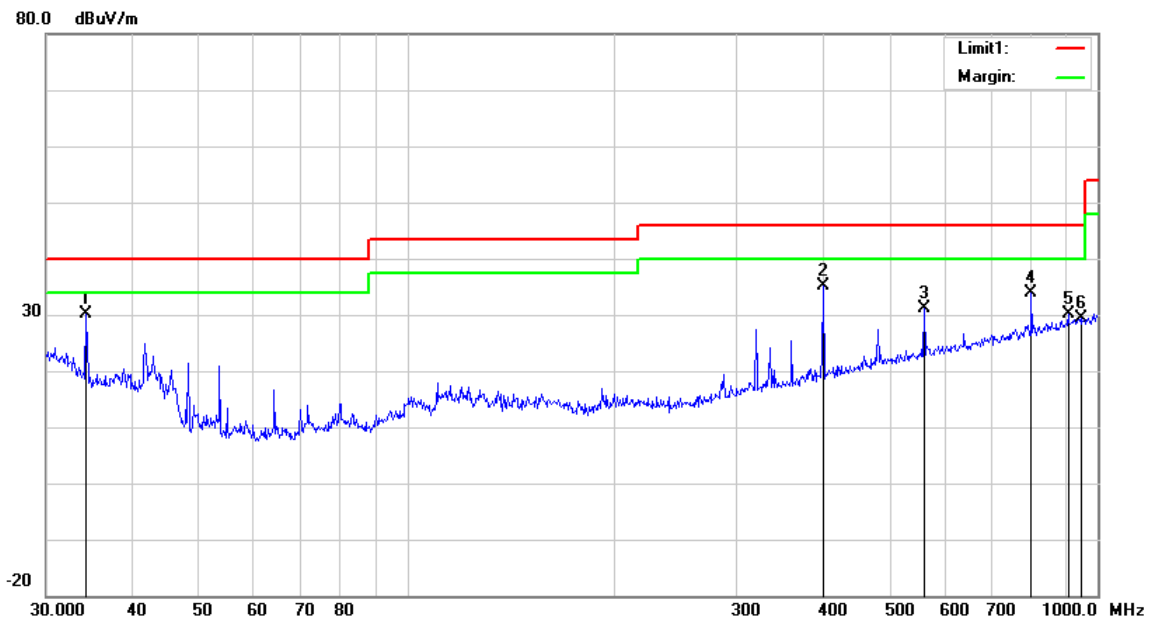




TEST MODE	Normal Working	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	AC 120V, 60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	25.2deg. C, 55.5% RH	TESTED BY: Evans He	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL at 3 m										
No.	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	34.2760	33.58	18.11	22.25	0.74	30.18	40.00	-9.82	100	5
2	400.4319	39.33	15.71	22.01	2.01	35.04	46.00	-10.96	200	323
3	560.6928	31.80	18.55	21.67	2.48	31.16	46.00	-14.84	100	335
4	801.7863	30.62	21.42	21.15	2.96	33.85	46.00	-12.15	100	133
5	906.4824	25.34	22.53	20.87	3.08	30.08	46.00	-15.92	100	244
6	945.4399	24.24	22.73	20.79	3.16	29.34	46.00	-16.66	100	250

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.





TEST MODE	Normal Working	FREQUENCY RANGE	Above 1GHz
TEST VOLTAGE	AC 120V, 60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak, Average 1MHz
ENVIRONMENTAL CONDITIONS	25.2deg. C, 51% RH	TESTED BY: Evans He	

Frequency (MHz)	Read_level (dB μ V/m)	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector (PK/AV)
4879.58	59.26	323	100	H	-13.54	45.72	74	-28.28	PK
4879.58	36.91	323	100	H	-13.54	23.37	50	-26.63	AV
1047.01	68.37	73	100	H	-20.73	47.64	70	-22.36	PK
1047.01	44.75	73	100	H	-20.73	24.02	50	-25.98	AV
1556.7	66.58	143	100	H	-18.84	47.74	70	-22.26	PK
1556.7	43.63	143	100	H	-18.84	24.79	50	-25.21	AV
2688.21	59.85	348	100	V	-13.52	46.33	70	-23.67	PK
2688.21	36.83	348	100	V	-13.52	23.31	50	-26.69	AV
1315.42	67.41	177	100	V	-19.62	47.79	70	-22.21	PK
1315.42	44.38	177	100	V	-19.62	24.76	50	-25.24	AV
3011.36	58.93	248	100	V	-13.58	45.35	70	-24.65	PK
3011.36	35.45	248	100	V	-13.58	21.87	50	-28.13	AV

- REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 1GHz to 6GHz.
4. Only emissions significantly above equipment noise floor are reported.



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4 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

---END---