

FCC DoC TEST REPORT

for

eBOX

MODEL: eBOX700-891-FL

Test Report Number: T171211D09-F

Issued to:

AXIOMTEK CO., LTD.

8F., No.55, Nanxing Road, Xizhi District, New Taipei City 221, Taiwan

Issued by:

Compliance Certification Services Inc.

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Issued Date: January 2, 2018







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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	January 2, 2018	Initial Issue	ALL	Amy Wang



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TEST RESULT CERTIFICATION

Product: eBOX

> Model: eBOX700-891-FL

Brand: AXIOMTEK

Applicant: AXIOMTEK CO., LTD.

8F., No.55, Nanxing Road, Xizhi District,

New Taipei City 221, Taiwan

Manufacturer: **AXIOMTEK CO., LTD.**

8F., No.55, Nanxing Road, Xizhi District,

New Taipei City 221, Taiwan

Tested: December 29, 2017

EMISSION				
Standard	Item	Result	Remarks	
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 6-2016	Conducted (Power Port)	PASS	Meet Class A limit	
ANSI C63.4-2014	Radiated	PASS	Meet Class A limit	

- Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.
 - 2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard	
None	

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:	Reviewed by:		
Sam the	Tea Fan		
Sam Hu Assistant Manager	Eva Fan Supervisor of report document dept.		



EUT DESCRIPTION

Product	eBOX
Froduct	EDOX
Brand Name	AXIOMTEK
Model	eBOX700-891-FL
Applicant	AXIOMTEK CO., LTD.
Housing material	Metal case
Identify Number	T171211D09
Received Date	December 11, 2017
EUT Power Rating	24VDC from AC Adapter
AC Power During Test	120VAC / 60Hz & 230VAC / 60Hz to AC Adapter
Adaptor Manufacturer	FSP
Adaptor Model Number	FSP120-AAAN3
Adaptor Power Rating	Input: 100-240VAC~, 1.8A, 50-60Hz Output: 24VDC, 5.0A
DC Power Cable Type	Unshielded, 1.6m (Non-detachable, with a core)

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
1. COM Port	2	2
2. Microphone Port	1	1
3. Earphone Port	1	1
4. HDMI Port	2	2
5. LAN Port	4	4
6. Display Port	1	1
7. USB 2.0 Port	2	2
8. USB 3.0 Port	4	4

Note: Client consigns only one model sample to test (Model Number: eBOX700-891-FL).



TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the below additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

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The test configuration/ modes are as the following:

Conduction Modes:

1	HDMI 1 + HDMI 2 1920X1200. VF=60Hz Mode	120VAC / 60Hz
2		230VAC / 60Hz
3	HDMI 1 + DP 1920X1200, VF=60Hz Mode	120VAC / 60Hz

Radiation Modes:

	HDMI 1 + HDMI 2 1920X1200, VF=60Hz Mode	120VAC / 60Hz	
	HDMI 1 + HDMI 2 1920X1200, VF=60Hz Mode / 1-18GHz		
2	HDMI 1 + HDMI 2 1920X1200, VF=60Hz Mode	230VAC / 60Hz	
3	HDMI 1 + DP 1920X1200, VF=60Hz Mode	120VAC / 60Hz	

Worst:

Conduction: Mode 1 Radiation: Mode 1

3.2. EUT SYSTEM OPERATION

1. Windows 10 boots system.

Run Burnintest.exe to test EUT.

Press the start menu, select executive and type ping 192.168.0.1~4 -t (EUT), ping 192.168.0.11~14 -t (Server PC).

Note: Test program is self-repeating throughout the test.



SETUP OF EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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EUT Devices:

No	Equipment	Model	Brand Name
1	Motherboard	SBC87891	AXIOMTEK
2	CPU (3.70GHz)	Intel(R) Core(TM) i3-6100	Intel
3	Memory (DDR4 / 2400 / 8GB)	N/A	Transcend
4	SSD (32GB)	N/A	CoreSolid Storage

Peripherals Devices:

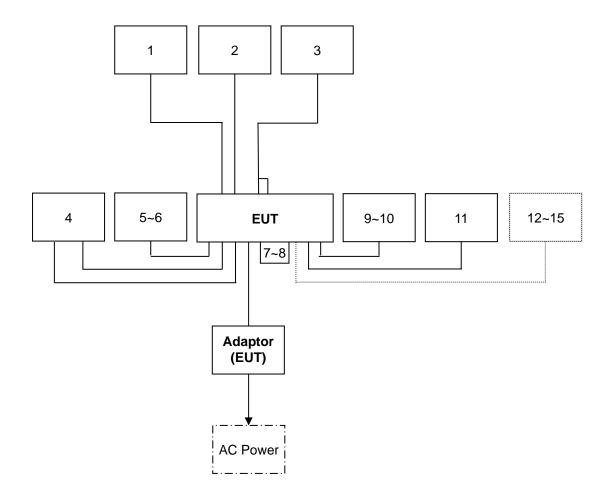
No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Brand Name	Data Cable	Power Cord
1	USB Mouse	M-U0026	N/A	DOC BSMI: T41126	Logitech	Shielded, 1.8m	N/A
2	USB Keyboard	Y-U0011	N/A	DOC BSMI: T51160	Logitech	Shielded, 1.8m	N/A
3	Earphone & Microphone	JAZZ-520	N/A	N/A	INTOPIC	Unshielded, 1.8m	N/A
4	Monitor	PA248Q	G5LMQS071284	DOC BSMI: R31018	ASUS	HDMI: Shielded, 1.8m DP: Shielded, 1.8m	Unshielded, 1.8m
5~6	USB HDD	HD-EG5	N/A	DOC BSMI: D33021	SONY	Shielded, 0.6m	N/A
7~8	COM Connector	N/A	N/A	N/A	N/A	N/A	N/A
9~10	USB HDD	HD-EG5	N/A	DOC BSMI: D33021	SONY	Shielded, 0.6m	N/A
11	Monitor	PA248Q	G5LMQS071170	DOC BSMI: R31018	ASUS	Shielded, 1.8m	Unshielded, 1.8m
12~15	Server PC	T3500	N/A	DOC BSMI: R33002	DELL	Unshielded, 20m	Unshielded, 1.8m

Note:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



4.2. CONFIGURATION OF SYSTEM UNDER TEST





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5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at CCSrf Taiwan Xindian Lab. at No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, 23151 Taiwan.

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The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3. CISPR 16-1-4 and CISPR 16-1-5.

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

> **Taiwan TAF USA** A2LA

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

> Canada **Industry Canada** Japan VCCI **Taiwan BSMI USA FCC**

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsrf.com

5.3. 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:

Measurement	Frequency	Uncertainty
Conducted emissions	0.15MHz ~ 30MHz	± 1.07
	30MHz ~ 1000MHz	± 4.82
Radiated emissions	1000MHz ~ 18000MHz	± 4.03
	18000MHz ~ 40000MHz	± 3.23

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22: 2005, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.



CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

EDECLIENCY (MU-)	Class A	(dBuV)	Class B (dBuV)		
FREQUENCY (MHz)	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	

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NOTE:

- (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 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.

6.2. TEST INSTRUMENTS

	Conducted Emission room # A						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
BNC Cable	EMEC	EMG178	BNC#A9	03/27/2018			
EMI Test Receiver	R&S	ESCI	101201	08/22/2018			
LISN	Schwarzbeck	NNLK 8129	8129-286	08/15/2018			
LISN(EUT)	Schwarzbeck	NSLK 8127	8127527	08/15/2018			
Pulse Limiter	R&S	ESH3Z2	C3010026-2	08/17/2018			
Thermo-Hygro Meter	Wisewind	201A	No. 02	05/08/2018			
Test S/W	EZ-EMC						

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.



6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

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Procedure of Preliminary Test

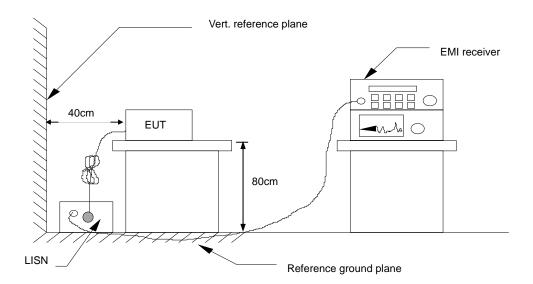
- The EUT and support equipment, if needed, were set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed by AC 120VAC/60Hz main power, through a Line Impedance Stabilization Network (LISN), which was supplied power source and was grounded to the ground plane.
- All support equipment power by from a second LISN.
- The test program of the EUT was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.



6.4. TEST SETUP



For the actual test configuration, please refer to the related item - Photographs of the Test Configuration.

6.5. DATA SAMPLE

Freq.	Reading	Factor	Result	Limit	Margin	Detector	Line
(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	(P/Q/A)	(L1/L2)
X.XX	42.95	0.55	43.50	73	-29.50	Q	

Freq. = Emission frequency in MHz

Reading = Uncorrected Analyzer/Receiver reading

= Insertion loss of LISN + Cable Loss + Pulse Limit Factor

= Reading + Factor Result

= Limit stated in standard Limit = Reading in reference to limit Margin

= Peak Reading Р

Q = Quasi-peak Reading = Average Reading Α

= Hot side L1 = Neutral side L2

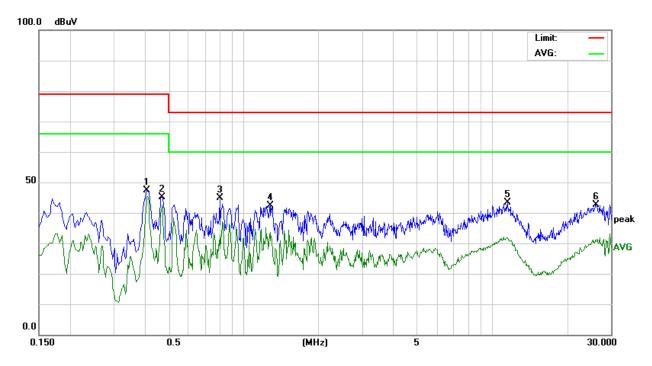
Calculation Formula

Margin (dB) = Result (dBuV) - Limit (dBuV)



6.6. TEST RESULTS

Model No.	eBOX700-891-FL	6dB Bandwidth	9 kHz
Environmental Conditions	21°C, 49% RH	Test Mode	Mode 1
Tested by	Bonny Tsai	Phase	L1
Standard	FCC CLASS A		

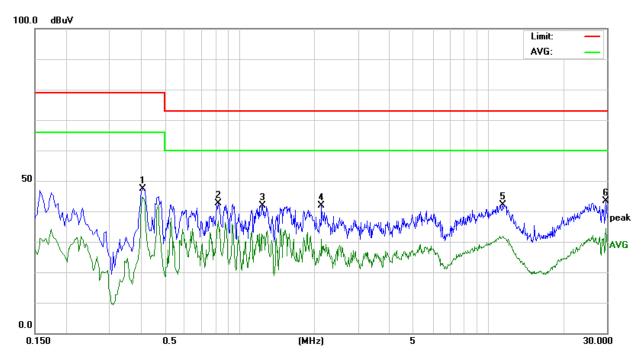


Conducted Emission Readings							
Frequency Range Investigated				150 kHz to 30 MHz			
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.4100	37.26	10.04	47.30	79.00	-31.70	Р	L1
0.4700	35.21	10.04	45.25	79.00	-33.75	Р	L1
0.8020	34.85	10.09	44.94	73.00	-28.06	Р	L1
1.2780	32.36	10.14	42.50	73.00	-30.50	Р	L1
11.5099	32.68	10.62	43.30	73.00	-29.70	Р	L1
26.1860	31.56	11.19	42.75	73.00	-30.25	Р	L1

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).



Model No.	eBOX700-891-FL	6dB Bandwidth	9 kHz
Environmental Conditions	21°C, 49% RH	Test Mode	Mode 1
Tested by	Bonny Tsai	Phase	L2
Standard	FCC CLASS A		



Conducted Emission Readings							
Frequency Range Investigated					150 kHz to	30 MHz	
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.4100	37.36	10.04	47.40	79.00	-31.60	Р	L2
0.8220	32.54	10.09	42.63	73.00	-30.37	Р	L2
1.2420	31.63	10.14	41.77	73.00	-31.23	Р	L2
2.1420	31.65	10.22	41.87	73.00	-31.13	Р	L2
11.4579	31.48	10.62	42.10	73.00	-30.90	Р	L2
29.7780	32.04	11.34	43.38	73.00	-29.62	Р	L2

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).



RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1GHz (for digital device)

EDECLIENCY (MU-)	dBuV/m	(At 10m)
FREQUENCY (MHz)	Class A	Class B
30 ~ 230	40	30
230 ~ 1000	47	37

Limit tables for non-digital device:

Class A Radiated Emission limit at 10m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	90	39
88 - 216	150	43.5
216 – 960	210	46.4
Above 960	300	49.5

Class B Radiated Emission limit at 3m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	100	40
88 - 216	150	43.5
216 – 960	200	46
Above 960	500	54

Above 1GHz(for all device)

Frequency	Class A (dBu	V/m) (At 10m)	Class B (dBuV/m) (At 3m)		
(MHZ)	Average Peak		Average	Peak	
Above 1000	49.5	69.5	54	74	

NOTE: (1) The lower limit shall apply at the transition frequencies.

- (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
- (3) The measurement above 1GHz is at close-in distances 3m, and determine the limit L2 corresponding to the close-in distance d2 by applying the following relation: L2 = L1 (d1/d2), where L1 is the specified limit in microvolts per metre (uV/m) at the distance d1 (10m), L2 is the new limit for distance d2 (3m).

So the new Class A limit above 1GHz at 3m is as following table:

Frequency	Class A (dBuV/m) (At 3m)		
(MHZ)	Average	Peak	
Above 1000	60	80	



According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated

emission limit is specified, up to the frequency shown in the following table:

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

7.2. TEST INSTRUMENTS

	Open Area Test Site # H									
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due						
Bilog Antenna	Teseq	CBL 6112D	36995	06/27/2018						
Cable	EMEC	CFD400NL-LW	N-Type#H11	08/17/2018						
EMI Test Receiver	R&S	ESCI	101340	03/28/2018						
Pre-Amplifier	HP	8447D	1937A01554	09/28/2018						
Thermo-Hygro Meter	Wisewind	201A	No. 03	06/04/2018						
Test S/W	Test S/W EZ-EMC									
	Α	bove 1GHz Used								
Horn Antenna	EMCO	3115	00022256	08/09/2018						
K-Type Cable	Rosnol	K1K50-UP0264-K1k 50-1000	170803-1	08/22/2018						
Microflex Cable	Rosnol	N1K50-EW0630-N1 k50-7000	170803-1	08/22/2018						
Pre-Amplifier	Com-Power	PAM-118A	551041	06/27/2018						
Signal Analyzer	R&S	FSV40	101269	04/23/2018						
Test S/W EZ-EMC										

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

^{2.} N.C.R = No Calibration Request.



7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

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Procedure of Preliminary Test

- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC 120VAC/60Hz power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver guickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

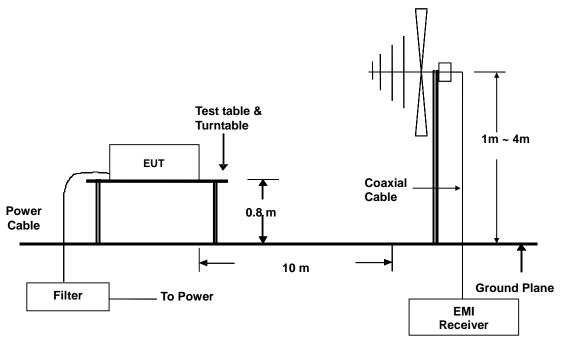
Procedure of Final Test

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 or 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. Below 1GHz the Q.P. reading and above 1GHz the Peak and Average reading are presented.
- The test data of the worst-case condition(s) was recorded.

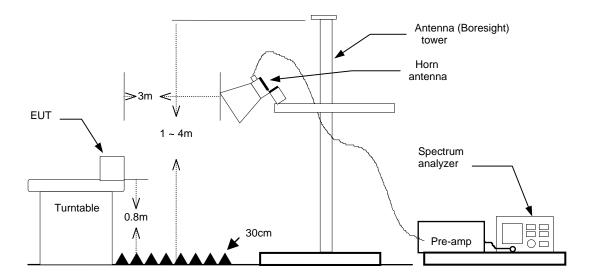


7.4. TEST SETUP

Below 1GHz



Above 1GHz



For the actual test configuration, please refer to the related item - Photographs of the Test Configuration.



7.5. DATA SAMPLE

Below 1GHz

Freq.	Reading	Factor	Result	Limit	Margin	Detector	Pol.
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(P/Q)	(H/V)
X.XX	14.0	12.2	26.2	40	-13.8	Q	

Above 1GHz

Freq.	Reading	Factor	Result	Limit	Margin	Detector	Pol.
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(P/A)	(H/V)
x.xx	42.95	0.55	43.50	60	-16.50	А	

Freq. = Emission frequency in MHz

= Uncorrected Analyzer/Receiver reading Reading = Antenna Factor + Cable Loss - Amplifier Gain Factor

Result = Reading + Factor = Limit stated in standard Limit = Reading in reference to limit Margin

= Peak Reading = Quasi-peak Reading Q = Average Reading Α

= Antenna Polarization: Horizontal Η = Antenna Polarization: Vertical

Calculation Formula

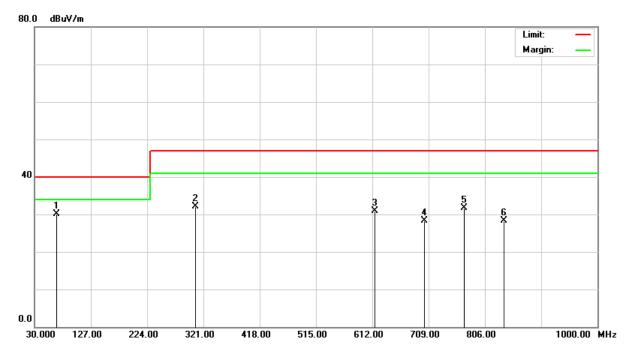
Margin (dB) = Result (dBuV/m) - Limit (dBuV/m)



7.6. TEST RESULTS

Below 1GHz

Model No.	eBOX700-891-FL	Test Mode	Mode 1		
Environmental Conditions	19°C, 68% RH	6dB Bandwidth	120 kHz		
Antenna Pole	Vertical	Antenna Distance	10m		
Detector Function	Quasi-peak.	Tested by	Bonny Tsai		
Standard	FCC CLASS A W/ CISPR 22 CLASS A LIMIT				



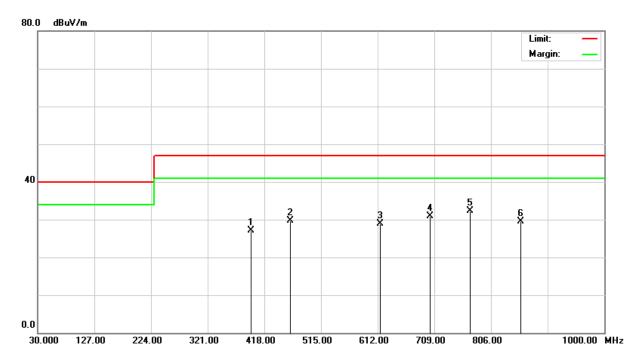
	Radiated Emission Readings											
Frequency Range Investigated						30 N	/IHz to 10	00 MHz a	t 10m			
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Lin (dBu)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)		
68.0199	44.45	-14.34	30.11	40.	00	-9.89	100	309	Q	٧		
308.0200	38.10	-6.07	32.03	47.	00	-14.97	100	271	Q	٧		
616.0200	30.70	0.27	30.97	47.	00	-16.03	400	33	Q	٧		
702.2500	27.40	0.89	28.29	47.	00	-18.71	400	121	Q	٧		
770.0400	29.60	2.08	31.68	47.	00	-15.32	400	249	Q	٧		
838.9900	25.50	2.73	28.23	47.	00	-18.77	400	150	Q	٧		

Note: 1. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

2. P= Peak Reading; Q= Quasi-peak Reading.



Model No.	eBOX700-891-FL	Test Mode	Mode 1		
Environmental Conditions	19°C, 68% RH	6dB Bandwidth	120 kHz		
Antenna Pole	Horizontal	Antenna Distance	10m		
Detector Function	Quasi-peak.	Tested by	Bonny Tsai		
Standard	FCC CLASS A W/ CISPR 22 CLASS A LIMIT				



	Radiated Emission Readings										
Fr	Frequency Range Investigated					30 N	/IHz to 10	00 MHz a	t 10m		
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)	
395.6800	30.40	-3.26	27.14	47.	.00	-19.86	400	49	Q	Н	
462.0100	31.60	-1.91	29.69	47.	.00	-17.31	100	354	Q	Н	
616.0700	28.70	0.27	28.97	47.	.00	-18.03	100	81	Q	Н	
702.2199	30.10	0.89	30.99	47.	.00	-16.01	100	17	Q	Н	
770.0600	30.20	2.08	32.28	47.	.00	-14.72	100	240	Q	Н	
857.4300	26.60	2.92	29.52	47.	.00	-17.48	100	135	Q	Н	

Note: 1. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

2. P= Peak Reading; Q= Quasi-peak Reading.



Above 1GHz

Model No.	eBOX700-891-FL	Test Mode	Mode 1
Environmental Conditions	26°C, 60% RH	6dB Bandwidth	1 MHz
Antenna Pole	Vertical / Horizontal	Antenna Distance	3m
Highest frequency generated or used	3700MHz	Upper frequency	18000MHz
Detector Function	Peak and average.	Tested by	Bonny Tsai
Standard	FCC CLASS A		

	Radiated Emission Readings										
Fre		Above 1GH	lz at 3m								
Freq. Reading Factor Result (MHz) (dBuV) (dB/m) (dBuV/m)				Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)				
1153.000	60.55	-8.88	51.67	80.00	-28.33	Р	V				
1221.000	58.98	-8.76	50.22	80.00	-29.78	Р	V				
1765.000	56.82	-6.51	50.31	80.00	-29.69	Р	V				
1935.000	60.23	-5.40	54.83	80.00	-25.17	Р	V				
2649.000	54.96	-4.30	50.66	80.00	-29.34	Р	V				
2887.000	55.01	-4.18	50.83	80.00	-29.17	Р	V				

	Radiated Emission Readings									
Frequency Range Investigated					Above 1GH	lz at 3m				
Freq. Reading Factor Result (MHz) (dBuV) (dB/m) (dBuV/m)				Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)			
1000.0000	58.18	-9.15	49.03	80.00	-30.97	Р	Н			
1221.000	61.07	-8.76	52.31	80.00	-27.69	Р	Н			
1289.000	56.92	-8.64	48.28	80.00	-31.72	Р	Н			
1442.000	56.38	-8.36	48.02	80.00	-31.98	Р	Н			
1935.000	56.13	-5.40	50.73	80.00	-29.27	Р	Н			
2156.000	53.84	-4.78	49.06	80.00	-30.94	Р	Н			

Note: 1. P= Peak Reading; A= Average Reading.



PHOTOGRAPHS OF THE TEST CONFIGURATION **CONDUCTED EMISSION TEST**







RADIATED EMISSION TEST



