FCC 47 CFR PART 15 SUBPART B TEST REPORT

Report No.: T111227205-F

for

Touch Display

MODEL: xxxxxFOX-12Dxxx-xxxxxxxx (x is 0-9, A-Z, "-" or blank)

Test Report Number: T111227205-F

Issued to:

AAEON Technology Inc.

5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist., New Taipei City, Taiwan, R.O.C.

Issued by:

Compliance Certification Services Inc.

Sindian Lab.

No.163-1, Jhongsheng Rd, Sindian City, Taipei County 23151, Taiwan (R.O.C.)

TEL: 886-2-22170894

FAX: 886-2-22171029

Issued Date: December 30, 2011







Note: This report shall not be reproduced except in full, without the written approval of Compliance Certification Services Inc. This document may be altered or revised by Compliance Certification Services Inc. personnel only, and shall be noted in the revision section of the document. The client should not use it to claim product endorsement by TAF, A2LA, NIST or any government agencies. The test results in the report only apply to the tested sample.

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	December 30, 2011	Initial Issue	ALL	Wendy Wang

TABLE OF CONTENTS

1	TEST RESULT CERTIFICATION	4
2	EUT DESCRIPTION	5
3	TEST METHODOLOGY	
3.1.	DECISION OF FINAL TEST MODE	6
3.2.		
4	SETUP OF EQUIPMENT UNDER TEST	7
4.1.	DESCRIPTION OF SUPPORT UNITS	
4.2.	CONFIGURATION OF SYSTEM UNDER TEST	7
5	FACILITIES AND ACCREDITATIONS	8
5.1.	FACILITIES	
5.2.	ACCREDITATIONS	
5.3.	MEASUREMENT UNCERTAINTY	
6	CONDUCTED EMISSION MEASUREMENT	
6.1.	LIMITS OF CONDUCTED EMISSION MEASUREMENT	
6.2.	TEST INSTRUMENTS	9
6.3.	TEST PROCEDURES	10
6.4.	TEST SETUP	
6.5.	DATA SAMPLE	11
6.6.		
7	RADIATED EMISSION MEASUREMENT	
7.2.	TEST INSTRUMENTS	16
7.3.	TEST PROCEDURES	
	TEST SETUP	
	DATA SAMPLE	
7.6.		
3	PHOTOGRAPHS OF THE TEST CONFIGURATION	23
	ENDLY 1 - PHOTOGRAPHS OF FUT	۸1_1

1 TEST RESULT CERTIFICATION

Product: Touch Display

Model: xxxxxFOX-12Dxxx-xxxxxxxx (x is 0-9, A-Z, "-" or blank)

Brand: AAEON

Applicant: AAEON Technology Inc.

5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist.,

Report No.: T111227205-F

New Taipei City, Taiwan, R.O.C.

Manufacturer: AAEON Technology Inc.

5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist.,

New Taipei City, Taiwan, R.O.C.

Tested: December 23, 2011 ~ December 29, 2011

EMISSION					
Standard	Item	Result	Remarks		
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 4	Conducted (Power Port)	PASS	Meet Class A limit		
ANSI C63.4-2009	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:
Sanlle	Vesta Hsv.
Sam Hu Section Manager	Vesta Hsu Supervisor of report document dept.

2 EUT DESCRIPTION

Product	Touch Display	
Brand Name	AAEON	
Model	xxxxxFOX-12Dxxx-xxxxxxxx (x is 0-9, A-Z, "-" or blank)	
Applicant	AAEON Technology Inc.	
Housing material	Metal w/plastic	
Identify Number	T111227205	
Received Date	December 27, 2011	
EUT Power Rating	24VDC from AC Adaptor	
AC Power During Test	120VAC / 60Hz to AC Adaptor	
AC Adaptor Manufacturer	SINPRO	
AC Adaptor Model	MPU100-108	
AC Adaptor Power Rating	I/P: 100-240VAC, 47-63Hz, 1.25-0.5A O/P: 24VDC, 4.16A	
DC Power Cord Type	Unshielded, 0.8m (Non-detachable)	
OSC/Clock Frequencies	24.576MHz	
EUT I/O Cable Type	8Pin to RS232: Shielded, 1.0m (Detachable) 8Pin to VGA: Shielded, 1.0m (Detachable)	

Report No.: T111227205-F

Model Differences

Model Name	Differences	Tested (Checked)
TF-FOX-12DHTT-A1-1010	Original	\boxtimes
xxxxxFOX-12Dxxx-xxxxxxxx	1. x is 0-9, A-Z, "-" or blank 2. For marketing purpose	

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH	
1. RS-232 TOUCH Port	1	1	
2. VGA Port	1	1	

Note: Client consigns only one model sample to test (Model Number: TF-FOX-12DHTT-A1-1010).

3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

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

Report No.: T111227205-F

The test configuration/ mode is as the following:

Conduction Mode:

1	Normal Mode
1	Normal Mode

Radiation Mode:

1 Normal Mode
Normal Mode / 1-2GHz

Conduction: Mode 1
Radiation: Mode 1

3.2. EUT SYSTEM OPERATION

- 1. Windows 7 boots system.
- 2. Run Emctest.exe to activate all peripherals and display "H" pattern on monitor screen.

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

4 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.

Report No.: T111227205-F

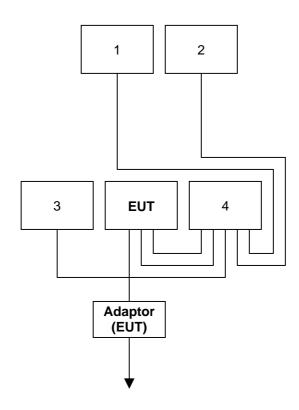
Peripherals Devices:

No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Brand Name	Data Cable	Power Cord
1	USB Mouse	KB-0316	N/A	DOC BSMI: R33001	HP	Shielded, 1.8m	N/A
2	USB Keyboard	N/A	390938-001	N/A	HP	Shielded, 1.8m	N/A
3	Printer	Deskjet D2360	TH73C1492F	DOC BSMI: R33001	HP	Shielded, 1.2m	Unshielded, 1.8m
4	Host PC	T3500	8X36VBX	DOC BSMI: R33002	DELL	RS232: Shielded, 1.0m VGA: Shielded, 1.0m	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



5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at CCSrf Taiwan Sindian Lab. at No.163-1, Jhongsheng Rd, Sindian City, Taipei County 23151, Taiwan (R.O.C.).

Report No.: T111227205-F

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
Norway	Nemko
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	± 1.29
	30MHz ~ 1000MHz	± 3.83
Radiated emissions	1000MHz ~ 18000MHz	± 1.99
Radialed emissions	18000MHz ~ 26000MHz	± 2.65
	26000MHz ~ 40000MHz	± 2.97

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.

6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A	(dBuV)	Class B (dBuV)		
FREQUENCT (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	

Report No.: T111227205-F

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 # B						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
TEST RECEIVER	R&S	ESCI	100234	06/13/2012			
LISN (EUT)	FCC	FCC-LISN-50-32-2	08009	03/27/2012			
LISN	SCHWARZBECK	NSLK 8127	8127382	01/02/2012			
BNC CABLE	MIYAZAKI	5D-FB	BNC B3	08/07/2012			
Pulse Limiter	R&S	ESH3-Z2	100374	01/09/2012			
THERMO- HYGRO METER	WISEWIND	201A	1006	05/23/2012			
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)

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.

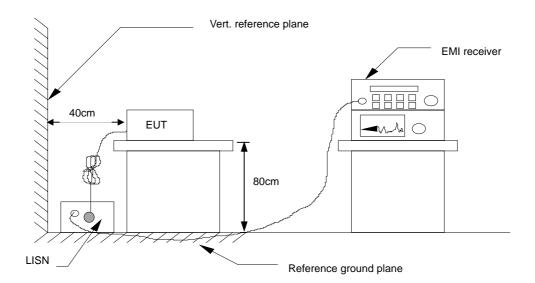
Report No.: T111227205-F

- 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



Report No.: T111227205-F

 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 Factor = Insertion loss of LISN + Cable Loss

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

P = Peak Reading
Q = Quasi-peak Reading
A = Average Reading

L1 = Hot side L2 = Neutral side

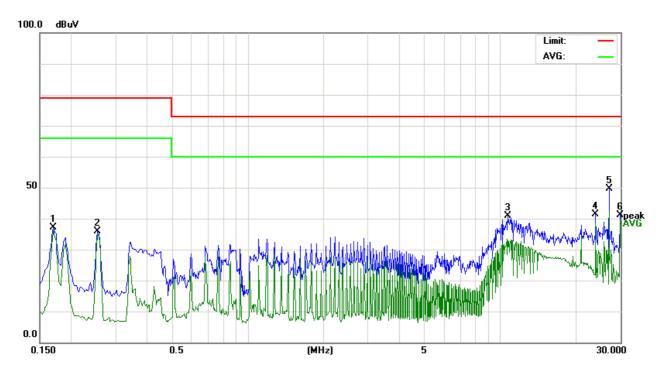
Calculation Formula

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

6.6. TEST RESULTS

Model No.	TF-FOX-12DHTT-A1-1010	6dB Bandwidth	10 kHz
Environmental Conditions	24°C, 60% RH, 1010mbar	Test Mode	Mode 1
Tested by	sted by Julon Liu		L1
Standard	FCC CLASS A		

Report No.: T111227205-F



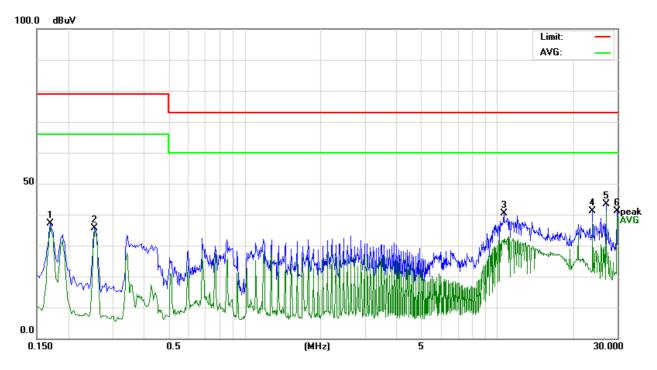
Conducted Emission Readings							
Frequency Range Investigated				150 kHz to	30 MHz		
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1700	26.80	10.22	37.02	79.00	-41.98	Р	L1
0.2540	25.66	10.12	35.78	79.00	-43.22	Р	L1
10.7339	30.76	10.17	40.93	73.00	-32.07	Р	L1
23.9980	30.85	10.50	41.35	73.00	-31.65	Р	L1
26.9980	39.07	10.56	49.63	73.00	-23.37	Р	L1
29.9980	30.44	10.61	41.05	73.00	-31.95	Р	L1

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

2. The emission level was or more than 2dB below the Average limit, so no re-check anymore.

Report No.:	T111227205-F

Model No.	TF-FOX-12DHTT-A1-1010	6dB Bandwidth	10 kHz
Environmental Conditions	24°C, 60% RH, 1010mbar	Test Mode	Mode 1
Tested by	Julon Liu	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)
0.1700	27.01	10.06	37.07	79.00	-41.93	Р	L2
0.2540	25.76	9.98	35.74	79.00	-43.26	Р	L2
10.6459	30.20	10.09	40.29	73.00	-32.71	Р	L2
23.9980	30.77	10.43	41.20	73.00	-31.80	Р	L2
26.9980	32.81	10.50	43.31	73.00	-29.69	Р	L2
29.9980	30.60	10.56	41.16	73.00	-31.84	Р	L2

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

2. The emission level was or more than 2dB below the Average limit, so no re-check anymore.

7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1GHz (for digital device)

FREQUENCY (MHz)	dBuV/m (At 10m)		
TREGOENOT (MITZ)	Class A	Class B	
30 ~ 230	40	30	
230 ~ 1000	47	37	

Report No.: T111227205-F

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 (dBu	V/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 1.75	30
1.75-108	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

	Ope	n Area Test Site # I		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
MEASURE RECEIVER	SCHAFFNER	SCR3501	338	07/05/2012
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required
ANTENNA	SUNOL	JB1	A100209-3	10/03/2012
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/06/2012
CABLE	PACIFIC	8D-FB	N-TYPE #I4	01/17/2012
THERMO- HYGRO METER	TECPEL	DTM-303	090639	05/16/2012
Test S/W		EZ-E	EMC	
	A	bove 1GHz Used		
SPECTRUM ANALYZER (9kHz-30GHz)	R&S	FSP 30	100112	10/25/2012
SPECTRUM ANALYZER (9kHz-40GHz)	Agilent	E4446A	MY46180323	04/24/2012
ANTENNA (1-18GHz)	EMCO	3115	00022256	01/09/2012
AMPLIFIER (1-26.5GHz)	HP	8449B	3008A01266	12/18/2012
CABLE (1-40GHz)	HUBER +SUHNER	SUCOFLEX 102	33106/2	12/18/2012
CABLE (1-40GHz)	HUBER +SUHNER	SUCOFLEX 102	33633/2	12/18/2012
CABLE (1-26.5GHz)	HUBER +SUHNER	SUCOFLEX 104PEA	33960/4PEA	12/18/2012
THERMO- HYGRO METER	TECPEL	DTM-303	NO.3	11/21/2012
Test S/W		EZ-E	EMC	

Report No.: T111227205-F

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)

Report No.: T111227205-F

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 quickly 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.

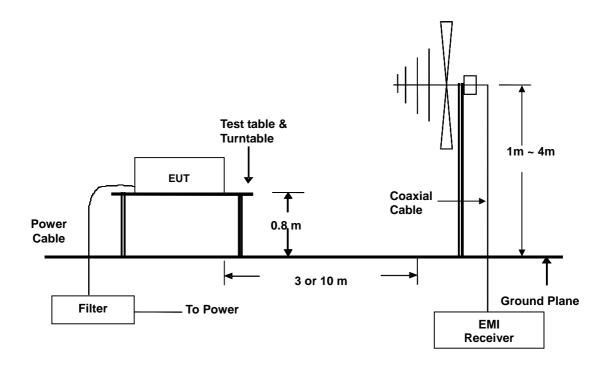
Procedure of Final Test

 EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.

Report No.: T111227205-F

- 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 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



 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	

Report No.: T111227205-F

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	Α	

Freq. = Emission frequency in MHz

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

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

P = Peak Reading
Q = Quasi-peak Reading
A = Average Reading

H = Antenna Polarization: Horizontal V = Antenna Polarization: Vertical

Calculation Formula

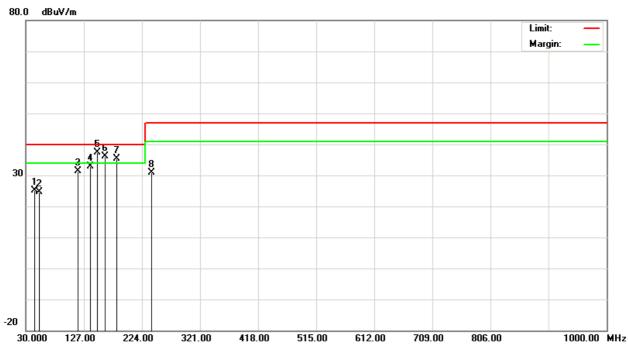
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

7.6. TEST RESULTS

Below 1GHz

Model No.	TF-FOX-12DHTT-A1-1010	Test Mode	Mode 1				
Environmental Conditions	26°C, 60% RH, 1010mbar	6dB Bandwidth	120 kHz				
Antenna Pole	Vertical	Antenna Distance	10m				
Detector Function	Quasi-peak.	Tested by	Kevin Chang				
Standard	FCC CLASS A W/ EN 55022 CLAS	CLASS A W/ EN 55022 CLASS A LIMIT					

Report No.: T111227205-F



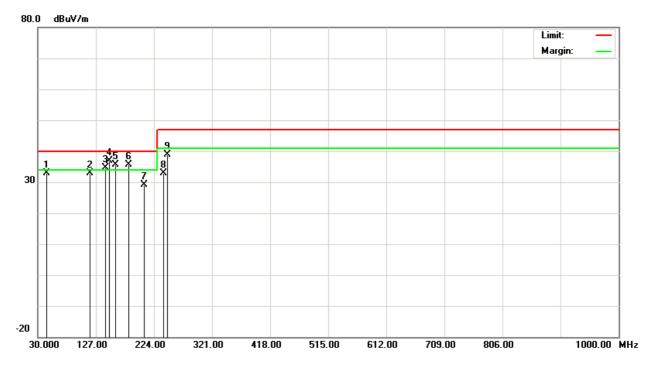
	Radiated Emission Readings												
Fr	requency R	ange Inves					/IHz to 10	00 MHz a	t 10m				
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)			
45.4800	44.30	-19.17	25.13	40.	00	-14.87	100	360	Q	٧			
52.0000	46.30	-21.57	24.73	40.	00	-15.27	100	120	Q	٧			
116.9800	46.80	-15.31	31.49	40.	00	-8.51	100	36	Q	٧			
138.4800	48.00	-15.17	32.83	40.	00	-7.17	100	124	Q	٧			
149.5000	53.30	-15.85	37.45	40.	00	-2.55	100	300	Q	٧			
161.9800	52.60	-16.59	36.01	40.	00	-3.99	100	240	Q	٧			
181.9800	52.00	-16.64	35.36	40.	00	-4.64	100	126	Q	٧			
240.4000	47.20	-16.33	30.87	47.	00	-16.13	100	300	Q	٧			

Note: 1. 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.

- 2. The other emission levels were very low against the limit.
- 3. P= Peak Reading; Q= Quasi-peak Reading.

Model No.	TF-FOX-12DHTT-A1-1010	Test Mode	Mode 1				
Environmental Conditions	24°C, 60% RH, 1010mbar	6dB Bandwidth	120 kHz				
Antenna Pole	Horizontal	Antenna Distance	10m				
Detector Function	Quasi-peak.	Tested by	Kevin Chang				
Standard	FCC CLASS A W/ EN 55022 CLAS	CC CLASS A W/ EN 55022 CLASS A LIMIT					

Report No.: T111227205-F



	Radiated Emission Readings													
Fi	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)				
45.4900	52.00	-19.17	32.83	40.00		-7.17	400	121	Q	Н				
116.9000	48.30	-15.32	32.98	40.	00	-7.02	400	34	Q	Н				
142.9900	50.00	-15.40	34.60	40.	00	-5.40	400	37	Q	Н				
149.2000	52.70	-15.83	36.87	40.	00	-3.13	400	360	Q	Н				
159.9800	52.10	-16.57	35.53	40.	00	-4.47	400	120	Q	Н				
181.9900	52.30	-16.64	35.66	40.	00	-4.34	400	31	Q	Н				
207.9400	45.30	-16.25	29.05	40.	00	-10.95	400	360	Q	Н				
240.0100	49.30	-16.34	32.96	47.	00	-14.04	400	124	Q	Н				
246.2000	55.10	-16.19	38.91	47.	00	-8.09	400	37	Q	Н				

Note: 1. 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.

- 2. The other emission levels were very low against the limit.
- 3. P= Peak Reading; Q= Quasi-peak Reading.

Above 1GHz

Model No.	TF-FOX-12DHTT-A1-1010	Test Mode	Mode 1
Environmental Conditions	26°C, 60% RH, 1010mbar	6dB Bandwidth	1 MHz
Antenna Pole	Vertical / Horizontal	Antenna Distance	3m
Highest frequency generated or used	185MHz	Upper frequency	2000MHz
Detector Function	Peak or average.	Tested by	Kevin Chang
Standard	FCC CLASS A		

Report No.: T111227205-F

	Radiated Emission Readings												
Fred	quency Rang	je Investiga		Above 1GF	lz at 3m								
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)						
1275.000	61.90	-9.30	52.60	80.00	-27.40	Р	٧						
1425.000	58.81	-8.49	50.32	80.00	-29.68	Р	٧						
1600.000	50.14	-7.53	42.61	80.00	-37.39	Р	٧						
1920.000	52.48	-5.77	46.71	80.00	-33.29	Р	٧						

Radiated Emission Readings							
Frequency Range Investigated				Above 1GHz at 3m			
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)
1280.000	61.36	-9.28	52.08	80.00	-27.92	Р	Н
1435.000	61.16	-8.43	52.73	80.00	-27.27	Р	Н
1605.000	51.74	-7.50	44.24	80.00	-35.76	Р	Н
1925.000	52.84	-5.75	47.09	80.00	-32.91	Р	Н

Note: 1. The other emission levels were very low against the limit.

2. P= Peak Reading; A= Average Reading.

8 PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST





RADIATED EMISSION TEST

