



MEASUREMENT REPORT

FCC Part 15B

FCC ID: XR3-KEPLER

APPLICANT: ONYX INTERNATIONAL INC.

Application Type: Certification

Product: E-reader

Model No.: Kepler, Kepler Pro, Kepler Lite, Da Vinci, ONYX BOOX
MONTE CRISTO, ONYX BOOX ROBINSON CRUSOE

FCC Classification: FCC Class B Digital Device (JBP)

FCC Rule Part(s): FCC Part 15 Subpart B: 2016

Test Procedure(s): ANSI C63.4: 2014

Test Date: June 17 ~ July 13, 2016

Reviewed By :

Robin Wu

(Robin Wu)

Approved By :

Marlin Chen

(Marlin Chen)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date
1606RSU02004	Rev. 01	Initial report	08-05-2016
1606RSU02004	Rev. 02	Added serial number	08-09-2016

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§2.1033 General Information

Applicant:	ONYX INTERNATIONAL INC.
Applicant Address:	Room 102, 3rd Floor, No. 38 HongLou Road, LiWan District, GuangZhou, China
Manufacturer:	ONYX INTERNATIONAL INC.
Manufacturer Address:	Room 102, 3rd Floor, No. 38 HongLou Road, LiWan District, GuangZhou, China
Test Site:	MRT Technology (Suzhou) Co., Ltd
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
MRT FCC Registration No.:	809388
FCC ID:	XR3-KEPLER
Model No.:	Kepler, Kepler Pro, Kepler Lite, Da Vinci, ONYX BOOX MONTE CRISTO, ONYX BOOX ROBINSON CRUSOE
Test Device Serial No.:	N/A ☐ Production ☒ Pre-Production ☐ Engineering

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



2. PRODUCT INFORMATION

2.1. Product Specification Subjective to this Report

Product Name	E-reader
Model No.	Kepler, Kepler Pro, Kepler Lite, Da Vinci, ONYX BOOX MONTE CRISTO, ONYX BOOX ROBINSON CRUSOE
Wi-Fi Specification	802.11b/g/n-HT20
Bluetooth Version	v3.0 + HS, v4.0
Components	
Adapter	M/N: HKC0055010-2D INPUT: 100-240V ~ 50/60Hz, 0.2A OUTPUT: 5Vdc, 1.0A

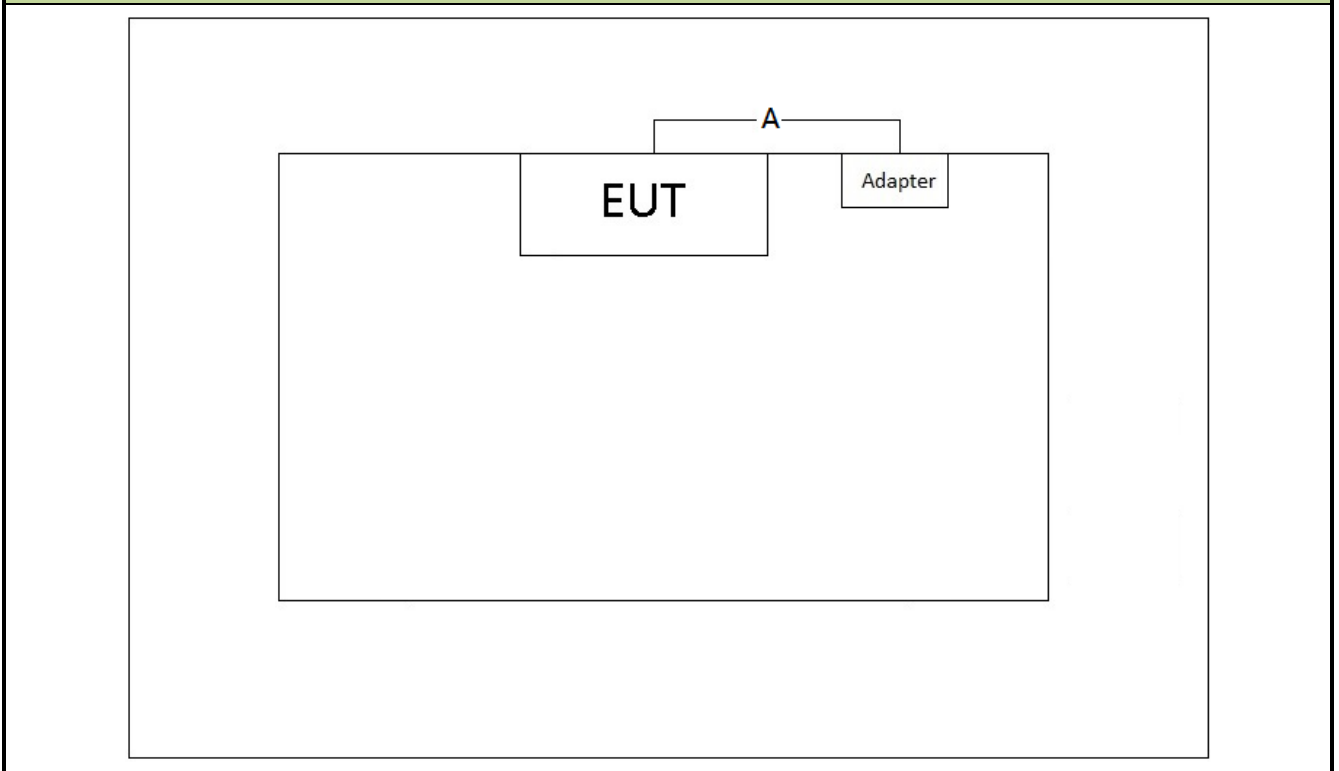
2.2. Test Mode

Mode 1: Charging + Reading
Mode 2: USB Copy

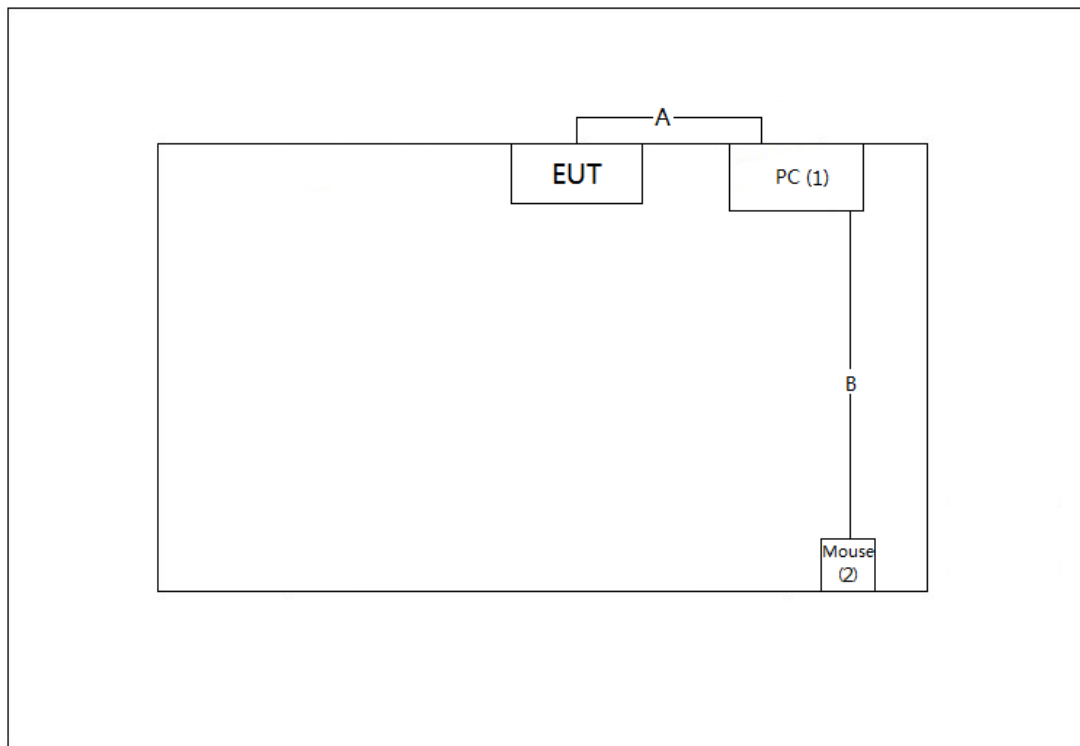
2.3. Test Configuration

The EUT was tested per the guidance FCC Part 15 Subpart B: 2016 and ANSI C63.4: 2014 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

Connection Diagram (Mode 1)



Connection Diagram (Mode 2)



Signal Cable Type		Signal Cable Description
A	USB Cable	Shielded, 0.5m
B	USB Cable	Shielded, 1.8m

2.4. Test System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	E430c	MP-4CFX213/10	Non-Shielded, 1.8m
2	USB Mouse	DELL	MS111-T	N/A	N/A

2.5. Test Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	(1), Making EUT working on "Charging + Reading" Mode. (2), Making EUT working on "USB Copy" Mode.

2.6. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2014) was used in the measurement of the **E-reader**

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150 kHz to 30 MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or resolution, clock or data exchange speed, scrolling H pattern to the EUT and/or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. Line conducted emissions test results are shown in Section 6.2.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30 MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30 MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB beam-width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions – SR2

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	101209	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	101683	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	101684	1 year	2016/11/03
Temperature/Humidity Meter	Yuhuaze	HTC-2	MRTSUE06182	1 year	2016/12/20

Radiated Emission – AC2

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
MXE EMI Receiver	Agilent	N9038A	MY51210182	1 year	2016/08/03
Microwave System Amplifier	Agilent	83017A	MY53270040	1 year	2017/03/29
TRILOG Antenna	Schwarzbeck	VULB9162	9162-047	1 year	2016/11/07
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	1 year	2016/11/07
Digital Thermometer & Hygromete	MingGao	ETH529	MRTSUE06170	1 year	2016/11/30

Software	Version	Function
e3	V8.3.5	EMI Test Software

5. MEASUREMENT UNCERTAINTY

Where relevant, the following test 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 $k = 2$.

AC Conducted Emission Measurement – SR2	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$):	
150kHz~30MHz: 3.5dB	
Radiated Emission Measurement – AC2	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$):	
Horizontal: 30MHz~1GHz: 4.07dB	
1GHz~18GHz: 4.16 dB	
Vertical: 30MHz~1GHz: 4.18 dB	
1GHz~18GHz: 4.76 dB	

6. TEST RESULT

6.1. Summary

Company Name: ONYX INTERNATIONAL INC.

Test Mode: Mode 1: Charging + Reading

Mode 2: USB Copy

FCC Part Section(s)	Test Description	Test Result
15.107	Conducted Emissions	Pass
15.109	Radiated Emissions	Pass

6.2. Conducted Emission Measurement

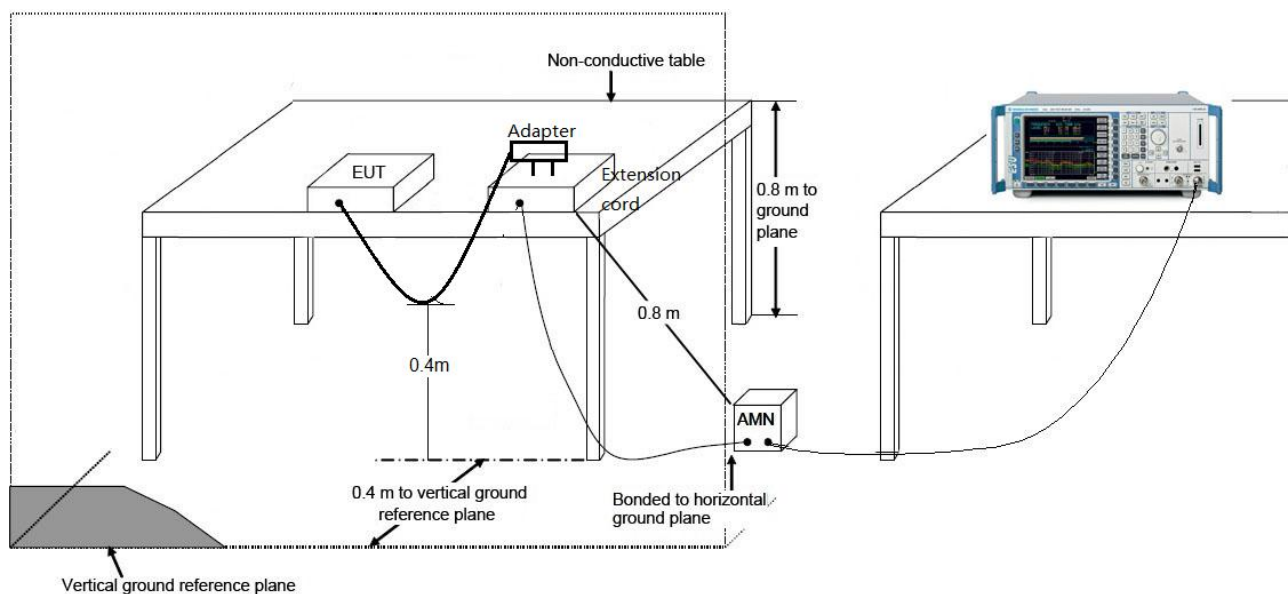
6.2.1. Test Limit

FCC Part 15.107 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

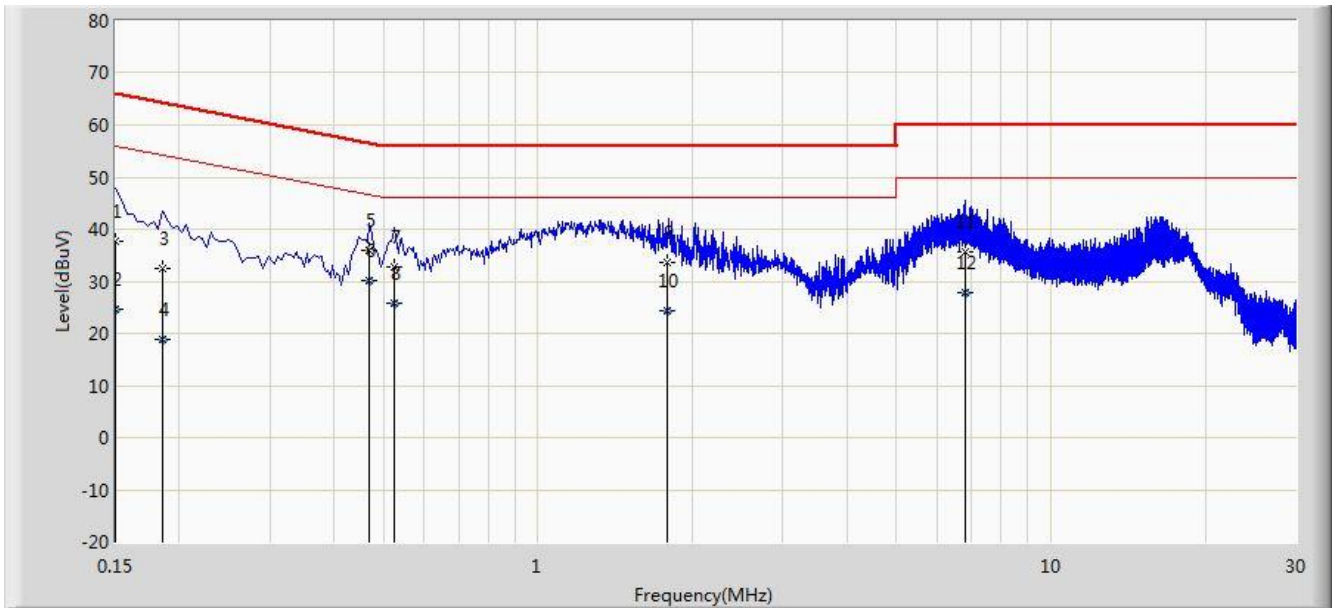
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.2.2. Test Setup



6.2.3. Test Result of Conducted Emissions

Site: SR2	Time: 2016/06/21 - 11:35
Limit: FCC_Part15.107_CE_Class B	Engineer: Line Chen
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: E-reader	Power: AC 120V/60Hz
Test Mode 1	

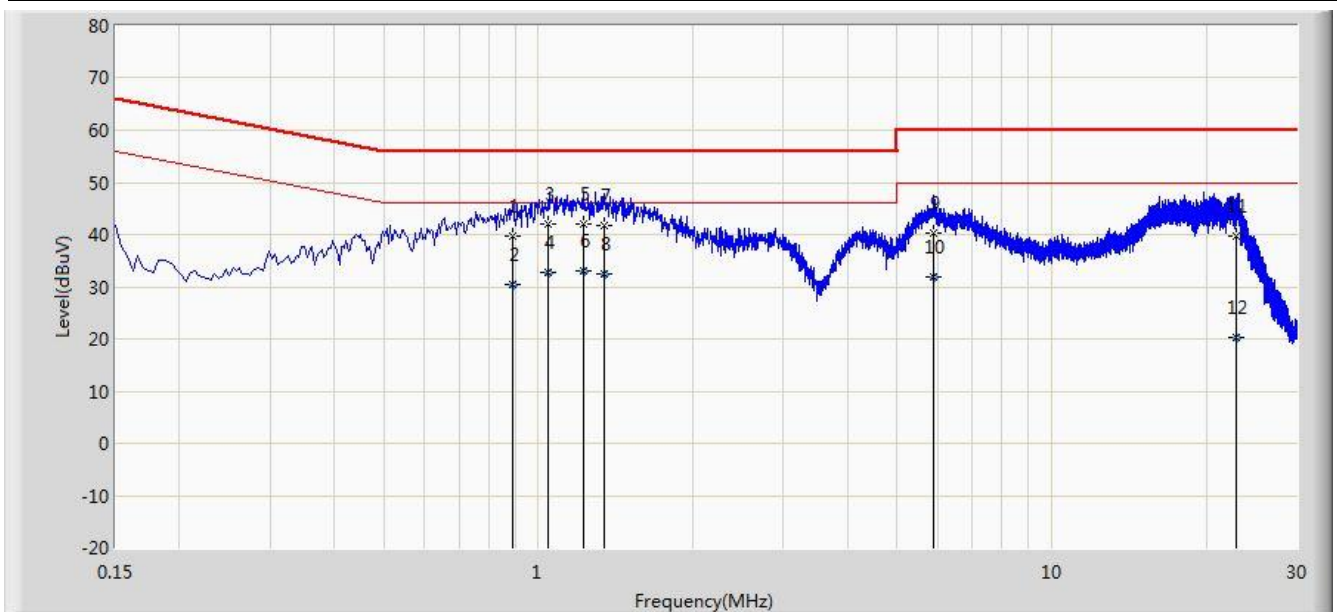


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.150	37.617	26.448	-28.383	66.000	11.168	QP
2			0.150	24.613	13.444	-31.387	56.000	11.168	AV
3			0.186	32.369	22.331	-31.844	64.213	10.039	QP
4			0.186	18.762	8.723	-35.452	54.213	10.039	AV
5			0.470	35.887	25.745	-20.627	56.514	10.142	QP
6		*	0.470	30.219	20.077	-16.295	46.514	10.142	AV
7			0.525	32.820	22.667	-23.180	56.000	10.153	QP
8			0.525	25.779	15.626	-20.221	46.000	10.153	AV
9			1.780	33.545	23.667	-22.455	56.000	9.879	QP
10			1.780	24.401	14.522	-21.599	46.000	9.879	AV
11			6.816	35.742	25.592	-24.258	60.000	10.150	QP
12			6.816	27.818	17.668	-22.182	50.000	10.150	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: SR2	Time: 2016/06/21 - 11:42
Limit: FCC_Part15.107_CE _ Class B	Engineer: Line Chen
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: E-reader	Power: AC 120V/60Hz
Test Mode 1	

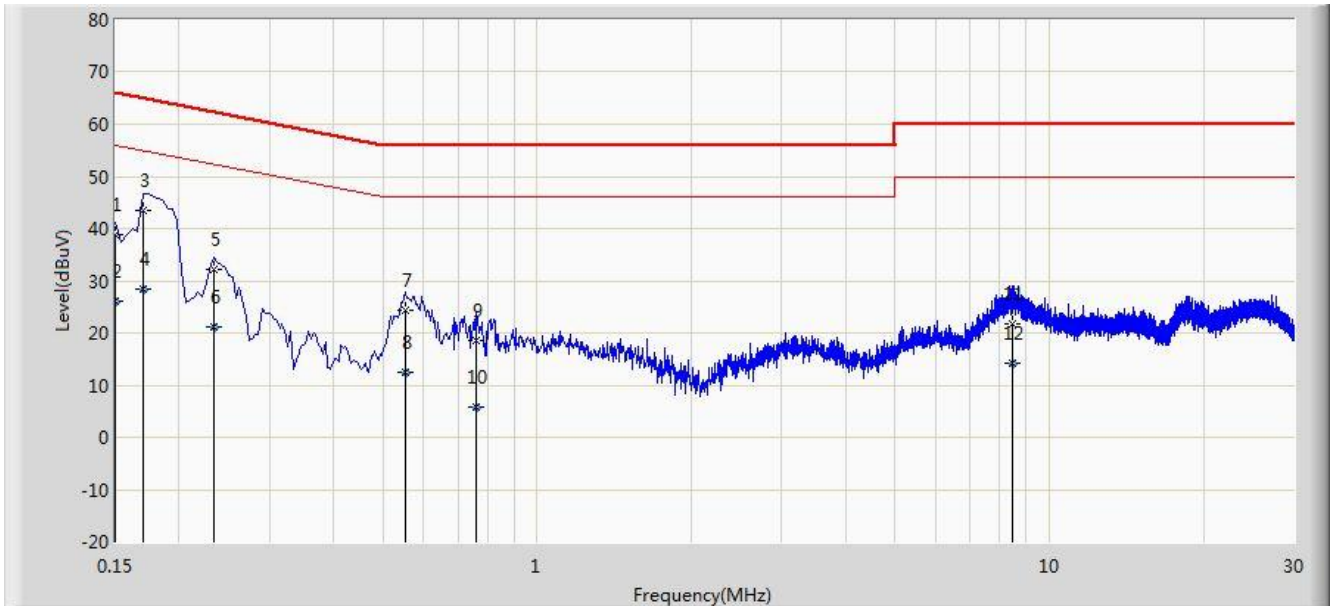


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.890	39.624	29.654	-16.376	56.000	9.970	QP
2			0.890	30.575	20.606	-15.425	46.000	9.970	AV
3			1.046	42.012	32.105	-13.988	56.000	9.907	QP
4			1.046	32.614	22.706	-13.386	46.000	9.907	AV
5			1.222	41.905	32.004	-14.095	56.000	9.901	QP
6		*	1.222	32.914	23.013	-13.086	46.000	9.901	AV
7			1.343	41.751	31.854	-14.249	56.000	9.897	QP
8			1.343	32.575	22.679	-13.425	46.000	9.897	AV
9			5.881	40.354	30.242	-19.646	60.000	10.112	QP
10			5.881	31.747	21.635	-18.253	50.000	10.112	AV
11			22.900	39.712	29.466	-20.288	60.000	10.246	QP
12			22.900	20.401	10.154	-29.599	50.000	10.246	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: SR2	Time: 2016/06/21 - 19:23
Limit: FCC_Part15.107_CE_Class B	Engineer: Line Chen
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: E-reader	Power: AC 120V/60Hz
Test Mode 2	

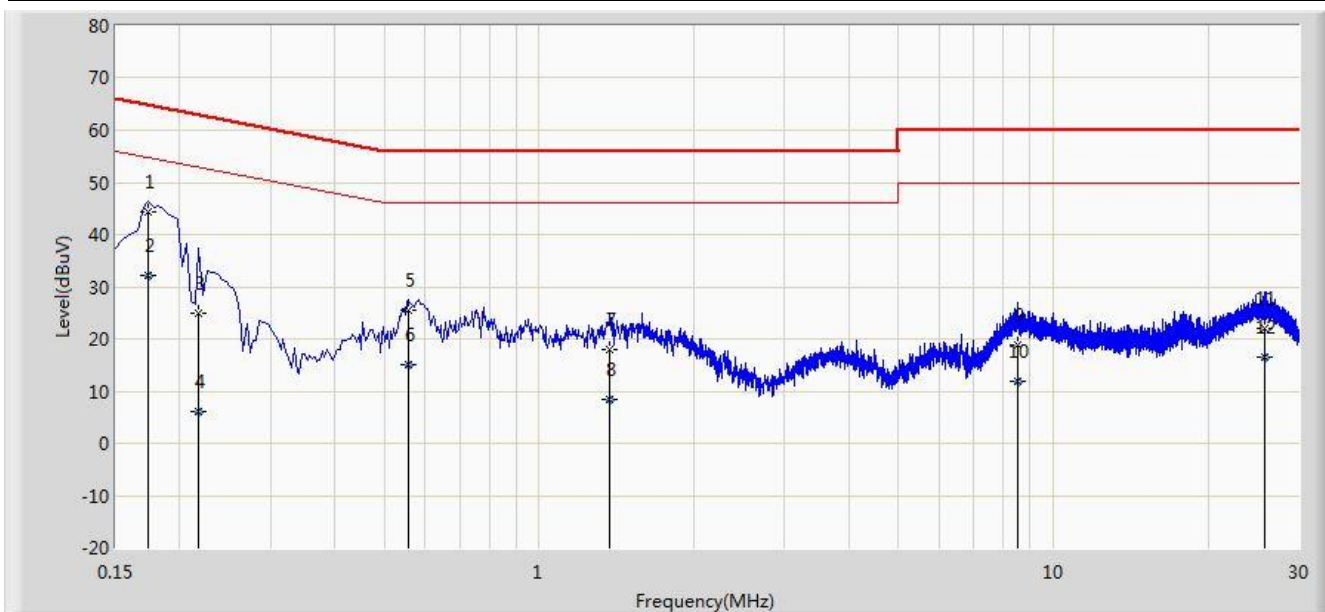


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	38.696	27.527	-27.304	66.000	11.168	QP
2			0.150	26.110	14.941	-29.890	56.000	11.168	AV
3		*	0.170	43.446	33.369	-21.514	64.960	10.078	QP
4			0.170	28.377	18.300	-26.583	54.960	10.078	AV
5			0.234	32.264	22.313	-30.043	62.307	9.951	QP
6			0.234	21.052	11.101	-31.255	52.307	9.951	AV
7			0.554	24.452	14.314	-31.548	56.000	10.139	QP
8			0.554	12.567	2.428	-33.433	46.000	10.139	AV
9			0.762	18.410	8.379	-37.590	56.000	10.031	QP
10			0.762	5.671	-4.360	-40.329	46.000	10.031	AV
11			8.446	21.845	11.669	-38.155	60.000	10.176	QP
12			8.446	14.270	4.094	-35.730	50.000	10.176	AV

Note: Measure Level (dBuV) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: SR2	Time: 2016/06/21 - 20:11
Limit: FCC_Part15.107_CE _ Class B	Engineer: Line Chen
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: E-reader	Power: AC 120V/60Hz
Test Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.174	44.377	34.321	-20.390	64.767	10.057	QP
2			0.174	32.261	22.205	-22.506	54.767	10.057	AV
3			0.218	24.925	14.944	-37.970	62.895	9.981	QP
4			0.218	6.071	-3.911	-46.824	52.895	9.981	AV
5			0.558	25.535	15.381	-30.465	56.000	10.154	QP
6			0.558	15.005	4.851	-30.995	46.000	10.154	AV
7			1.370	18.040	8.145	-37.960	56.000	9.895	QP
8			1.370	8.446	-1.449	-37.554	46.000	9.895	AV
9			8.518	18.869	8.669	-41.131	60.000	10.199	QP
10			8.518	11.788	1.589	-38.212	50.000	10.199	AV
11			25.762	22.095	11.780	-37.905	60.000	10.316	QP
12			25.762	16.446	6.131	-33.554	50.000	10.316	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

6.3. Radiated Emission Measurement

6.3.1. Test Limit

FCC Part 15.109 Limits		
Frequency (MHz)	Distance (m)	Level (dB μ V/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

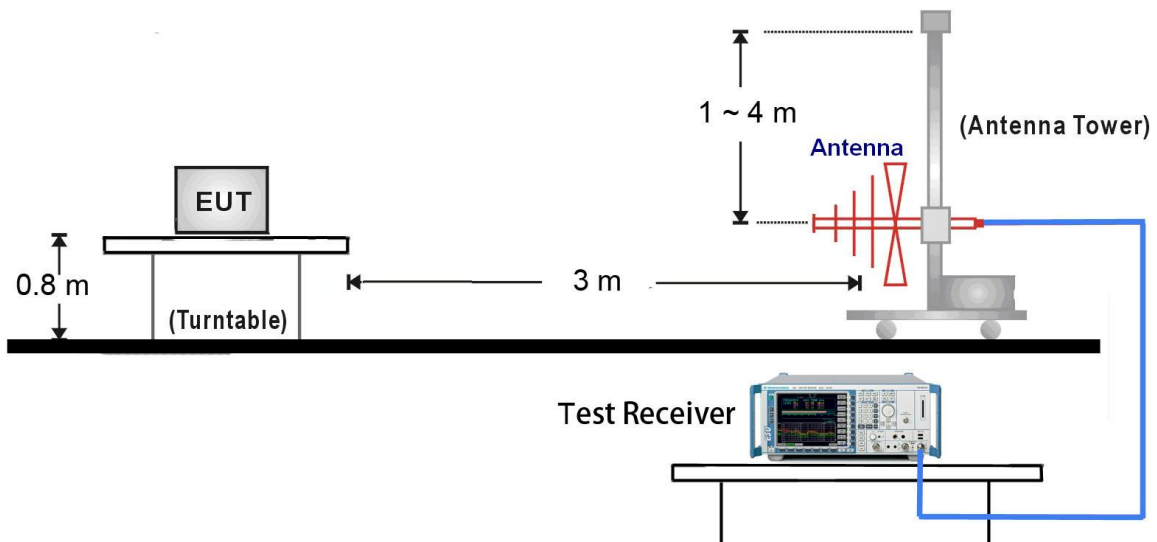
Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

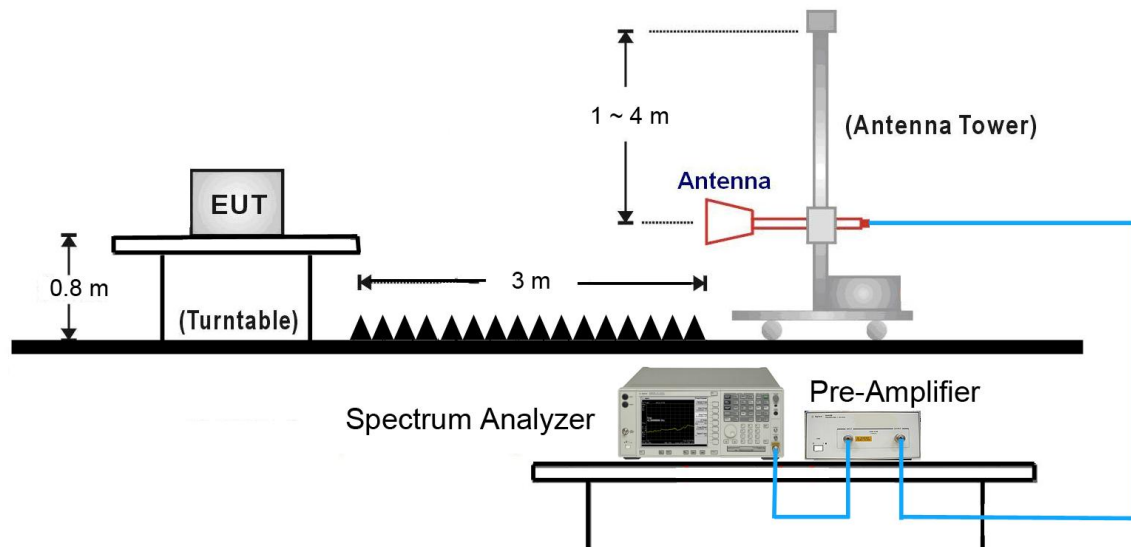
Note 3: E field strength (dB μ V/m) = 20 log E field strength (μ V/m)

6.3.2. Test Setup

30MHz ~ 1GHz Test Setup:

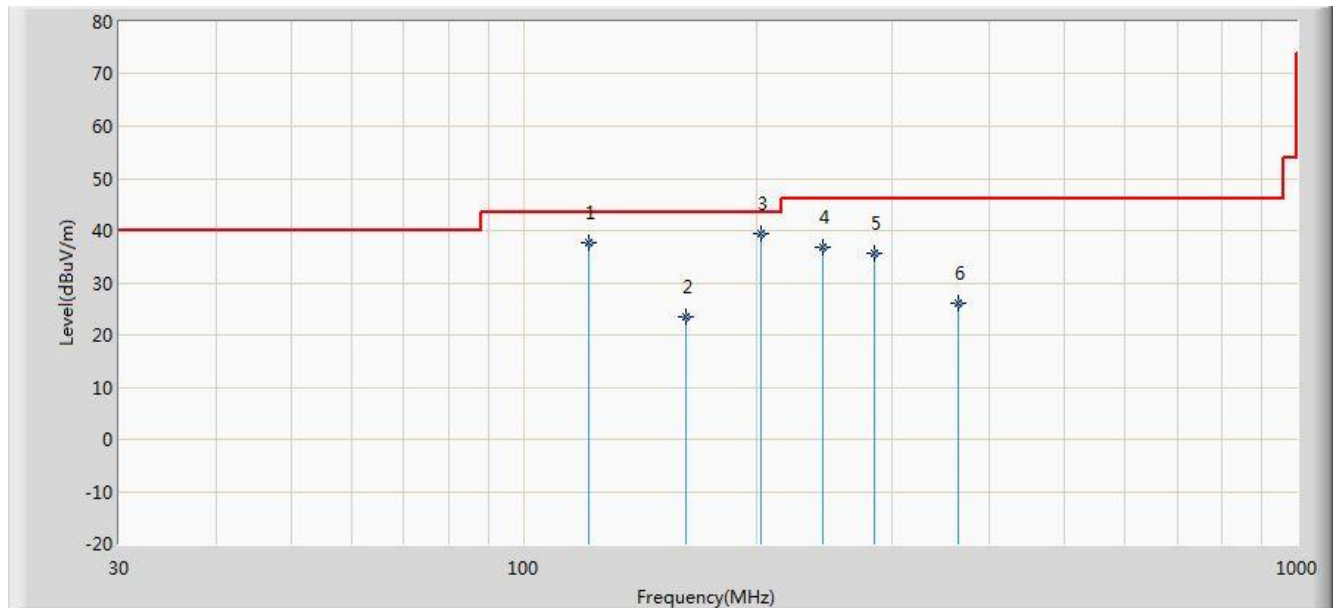


1GHz ~18GHz Test Setup:



6.3.3. Test Result of Radiated Emissions

Site: AC2	Time: 2016/07/12 - 16:50
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Line Chen
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: E-reader	Power: AC 120V/60Hz
Test Mode 1	

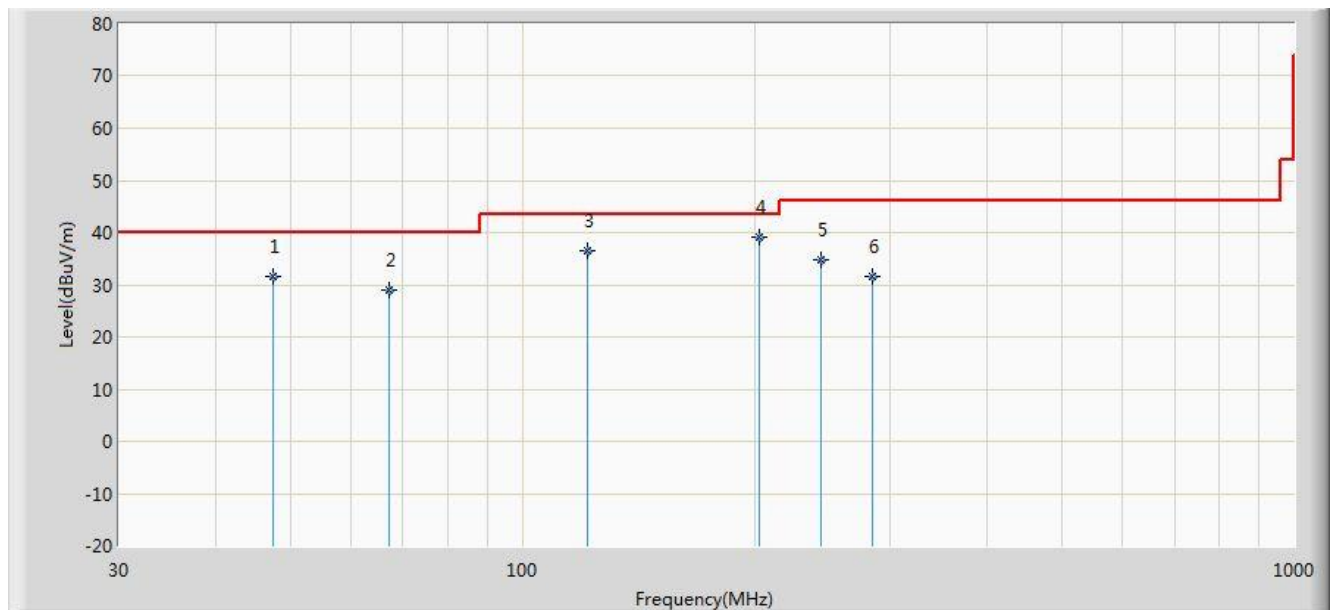


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1			121.665	37.591	26.552	-5.909	43.500	11.039	100	78	QP
2			162.405	23.605	13.667	-19.895	43.500	9.938	100	114	QP
3		*	203.145	39.448	27.116	-4.052	43.500	12.333	100	167	QP
4			243.400	36.861	23.337	-9.139	46.000	13.524	100	303	QP
5			284.140	35.656	21.392	-10.344	46.000	14.264	100	46	QP
6			365.630	26.032	9.936	-19.968	46.000	16.096	100	204	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC2	Time: 2016/07/12 - 16:50
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Line Chen
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: E-reader	Power: AC 120V/60Hz
Test Mode 1	

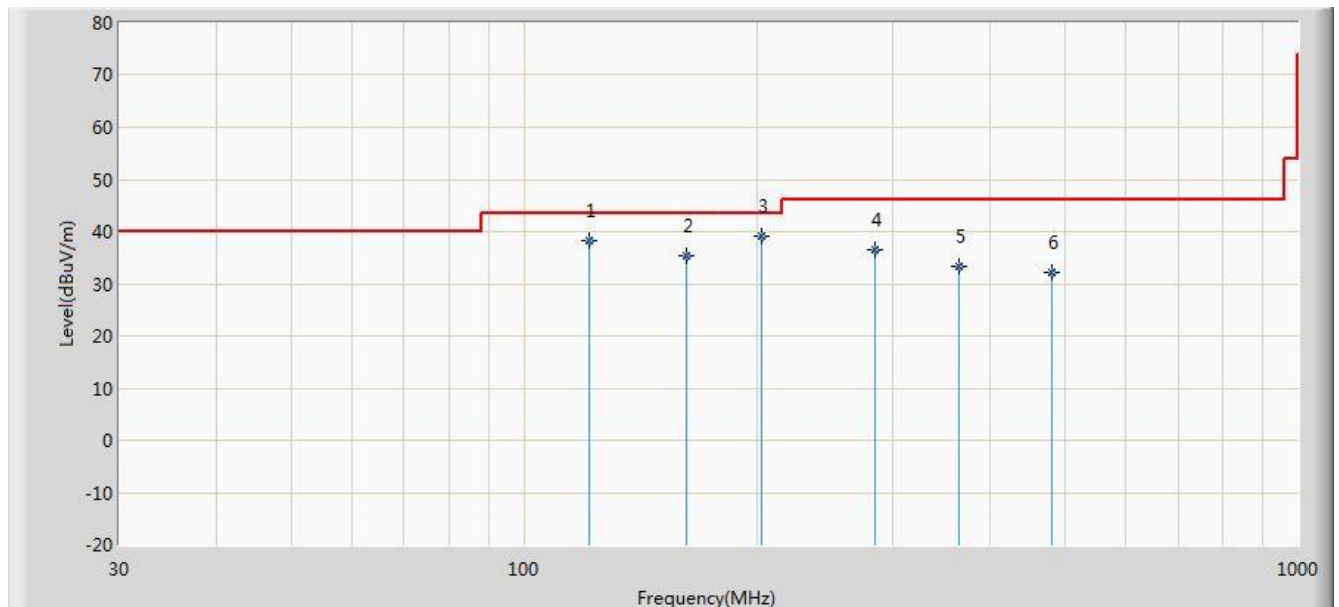


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1			47.460	31.602	16.632	-8.398	40.000	14.969	100	32	QP
2			67.345	29.096	17.331	-10.904	40.000	11.765	100	223	QP
3			121.665	36.571	25.532	-6.929	43.500	11.039	100	80	QP
4		*	203.145	38.993	26.661	-4.507	43.500	12.333	100	163	QP
5			243.400	34.641	21.117	-11.359	46.000	13.524	100	310	QP
6			284.140	31.525	17.261	-14.475	46.000	14.264	100	51	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC2	Time: 2016/07/12 - 16:50
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Line Chen
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: E-reader	Power: AC 120V/60Hz
Test Mode 2	

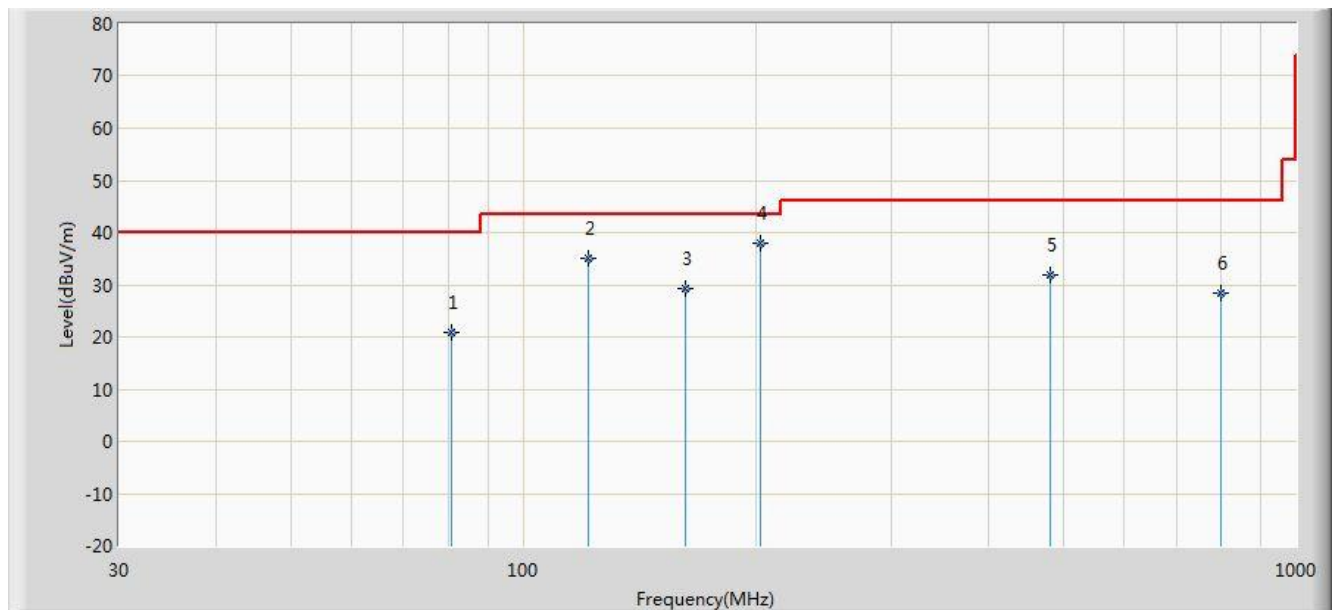


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1			121.665	38.155	27.116	-5.345	43.500	11.039	100	82	QP
2			162.405	35.470	25.532	-8.030	43.500	9.938	100	108	QP
3		*	203.145	38.994	26.662	-4.506	43.500	12.333	100	161	QP
4			284.140	36.381	22.117	-9.619	46.000	14.264	100	47	QP
5			365.620	33.213	17.117	-12.787	46.000	16.096	100	202	QP
6			480.080	32.268	14.271	-13.732	46.000	17.997	100	331	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC2	Time: 2016/07/12 - 16:50
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Line Chen
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: E-reader	Power: AC 120V/60Hz
Test Mode 2	

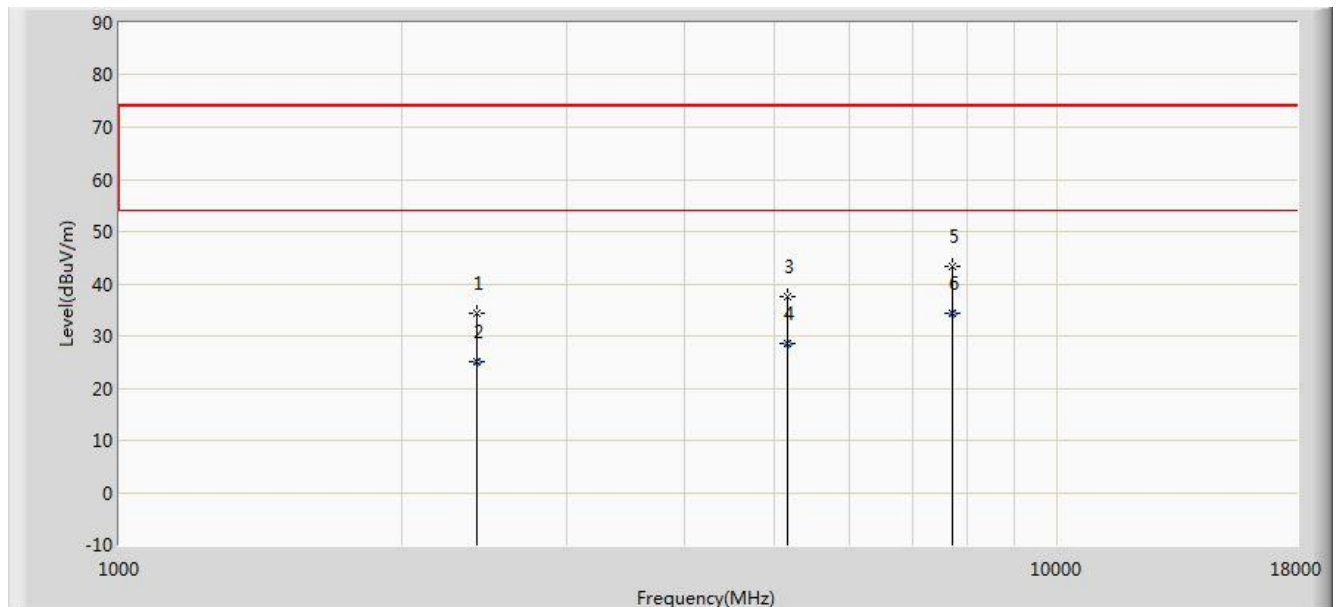


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1			80.925	20.917	11.398	-19.083	40.000	9.519	100	192	QP
2			121.665	34.942	23.903	-8.558	43.500	11.039	100	85	QP
3			162.405	29.266	19.328	-14.234	43.500	9.938	100	110	QP
4		*	203.145	38.114	25.782	-5.386	43.500	12.333	100	156	QP
5			480.080	31.779	13.782	-14.221	46.000	17.997	100	329	QP
6			798.725	28.382	5.536	-17.618	46.000	22.846	100	221	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC2	Time: 2016/07/12 - 15:55
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Line Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: E-reader	Power: AC 120V/60Hz
Test Mode 1	

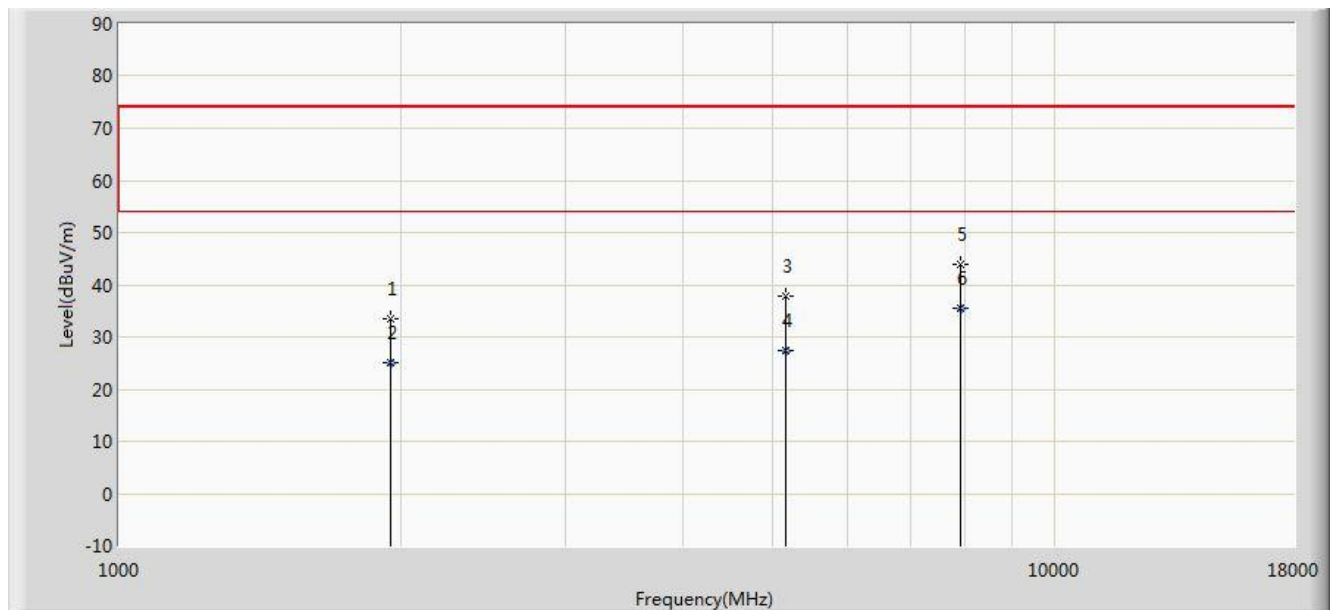


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1			2402.500	34.305	36.990	-39.695	74.000	-2.685	100	136	PK
2			2403.000	25.087	27.773	-28.913	54.000	-2.687	100	139	AV
3			5165.000	37.406	34.418	-36.594	74.000	2.988	100	203	PK
4			5165.500	28.542	25.552	-25.458	54.000	2.990	100	217	AV
5			7732.000	43.324	32.848	-30.676	74.000	10.477	100	339	PK
6		*	7732.500	34.483	24.008	-19.517	54.000	10.475	100	347	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB).

Site: AC2	Time: 2016/07/12 - 15:56
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Line Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: E-reader	Power: AC 120V/60Hz
Test Mode 1	

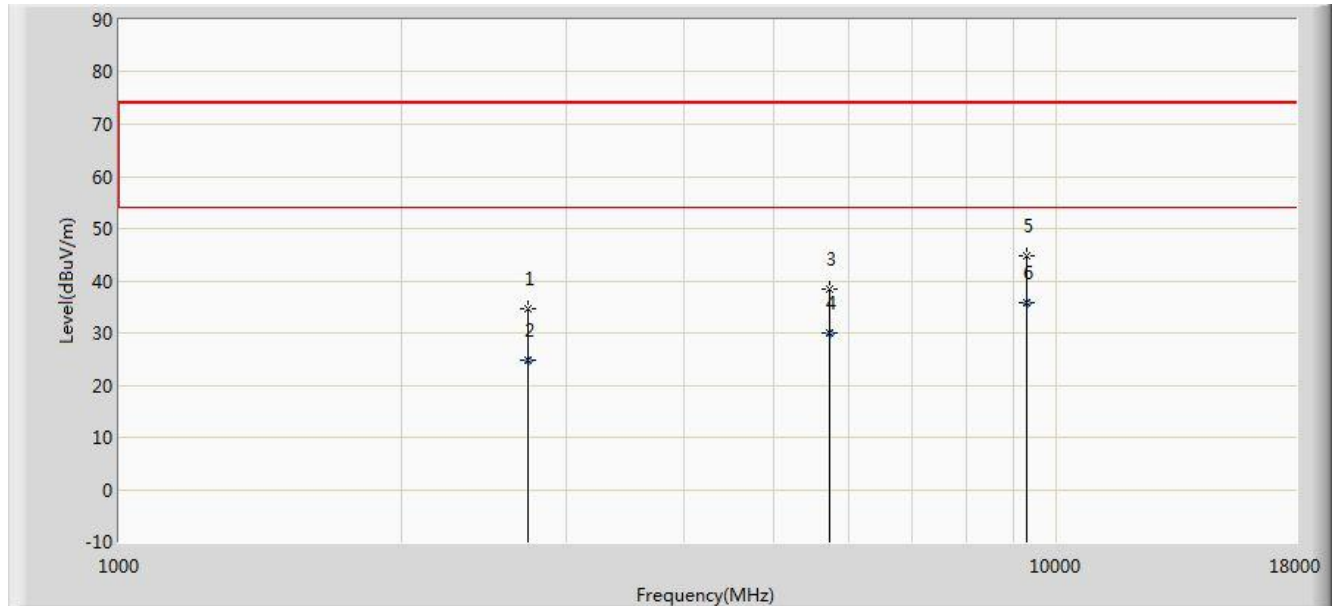


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1			1952.000	33.467	38.349	-40.533	74.000	-4.881	100	72	PK
2			1952.500	25.129	30.003	-28.871	54.000	-4.874	100	93	AV
3			5156.500	37.710	34.664	-36.290	74.000	3.046	100	302	PK
4			5157.000	27.271	24.228	-26.729	54.000	3.043	100	307	AV
5			7919.000	43.810	33.193	-30.190	74.000	10.617	100	221	PK
6		*	7919.500	35.498	24.882	-18.502	54.000	10.617	100	234	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB).

Site: AC2	Time: 2016/07/12 - 15:59
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Line Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: E-reader	Power: AC 120V/60Hz
Test Mode 2	

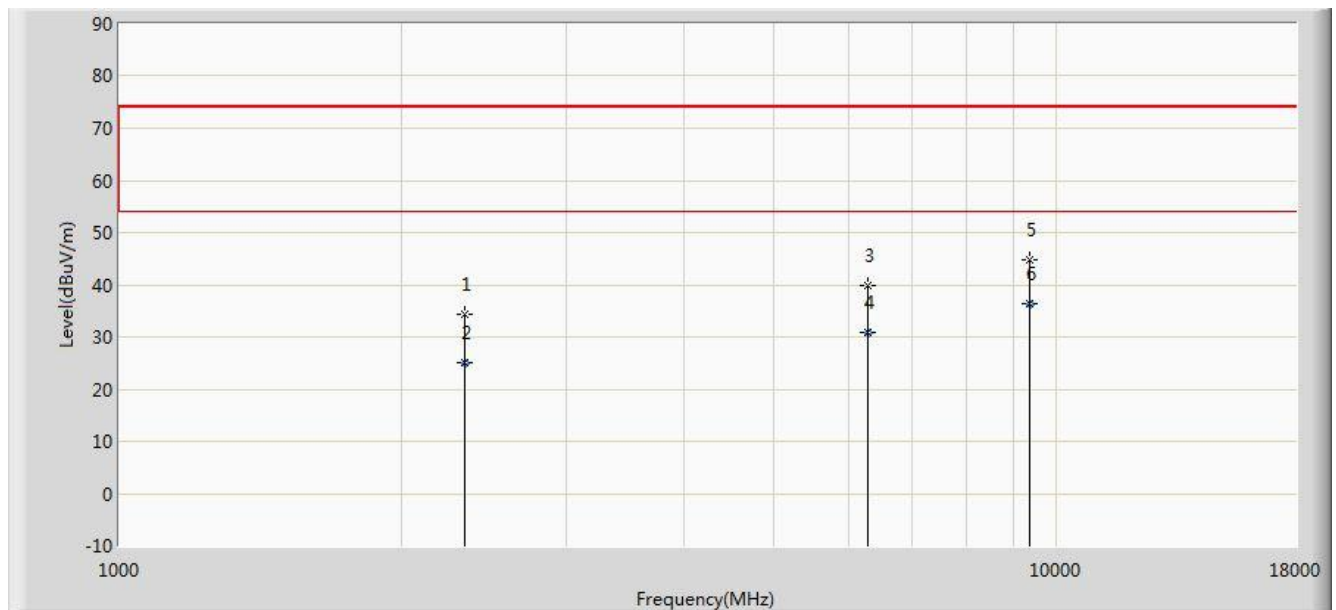


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1			2734.000	34.613	36.920	-39.387	74.000	-2.307	100	189	PK
2			2734.500	24.808	27.118	-29.192	54.000	-2.310	100	175	AV
3			5726.000	38.318	34.188	-35.682	74.000	4.131	100	271	PK
4			5726.500	29.858	25.715	-24.142	54.000	4.143	100	254	AV
5			9296.000	44.822	32.053	-29.178	74.000	12.769	100	82	PK
6		*	9296.500	35.882	23.117	-18.118	54.000	12.765	100	90	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB).

Site: AC2	Time: 2016/07/12 - 16:01
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Line Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: E-reader	Power: AC 120V/60Hz
Test Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1			2334.500	34.264	36.584	-39.736	74.000	-2.319	100	118	PK
2			2335.000	25.033	27.361	-28.967	54.000	-2.328	100	123	AV
3			6287.000	39.735	33.750	-34.265	74.000	5.985	100	232	PK
4			6287.500	30.860	24.882	-23.140	54.000	5.978	100	241	AV
5			9347.000	44.839	32.422	-29.161	74.000	12.418	100	78	PK
6		*	9347.500	36.358	23.927	-17.642	54.000	12.432	100	85	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB).

The End