

APPLICATION FOR VERIFICATION
On Behalf of
SHENZHEN AINOL ELECTRON CO.,LTD

Novo7 Crystal II User manual
Model No.: Novo7 Crystal II

FCC ID: 2ABTP-CRYSTAL-II

Prepared for : SHENZHEN AINOL ELECTRON CO.,LTD
Address : Room 606,Bldg B,7 Star Business Plaza, Minzhi Street,
Longhua District, Shenzhen, China
Prepared by : Accurate Technology Co., Ltd.
Address : F1, Bldg. A&D, Changyuan New Material Port, Keyuan
Rd., Science & Industry Park, Nanshan District, Shenzhen
518057, P.R. China

Tel: +86-755-26503290

Fax: +86-755-26503396

Report No. : ATE20132534
Date of Test : Dec 02, 2013-Feb 28, 2014
Date of Report : Feb 28, 2014

TABLE OF CONTENTS

Description	Page
Test Report Declaration	
1. TEST RESULTS SUMMARY	4
2. GENERAL INFORMATION	5
2.1. Product of Device (EUT)	5
2.2. Accessory and Auxiliary Equipment	5
2.3. Description of Test Facility	6
2.4. Measurement Uncertainty	6
3. POWER LINE CONDUCTED MEASUREMENT	7
3.1. For Power Line Conducted Emission	7
3.2. Block Diagram of Test Setup	7
3.3. Power Line Conducted Emission Measurement Limits (Class B)	8
3.4. Configuration of EUT on Measurement	8
3.5. Operating Condition of EUT	8
3.6. Test Procedure	8
3.7. Power Line Conducted Emission Measurement Results	8
4. RADIATED EMISSION MEASUREMENT	21
4.1. For Radiated Emission Measurement	21
4.2. TEST CONFIGURATION	21
4.3. Block Diagram of Test Setup	22
4.4. Radiated Emission Limit (Class B)	23
4.5. EUT Configuration on Measurement	23
4.6. Operating Condition of EUT	23
4.7. Test Procedure	23
4.8. Radiated Emission Noise Measurement Result	24
5. PHOTOGRAPHS	44
5.1. Photos of Radiated Measurement	44
5.2. Photograph of set-up for Mains Terminal Disturbance Voltage	48
5.3. Photos of EUT	50

Test Report Declaration

Applicant : SHENZHEN AINOL ELECTRON CO.,LTD
Manufacturer : SHENZHEN AINOL ELECTRON CO.,LTD
EUT Description : Novo7 Crystal II User manual
(A) MODEL NO.: Novo7 Crystal II
(B) Trade Name.: Ainol
(C) POWER SUPPLY: DC 3.7V (Powered by battery) or AC 120V/60Hz
(Powered by adapter)

Measurement Procedure Used:

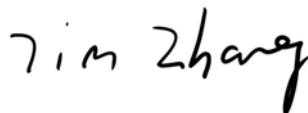
FCC Rules and Regulations Part 15 Subpart B Class B & ANSI C63.4: 2009

The device described above is tested by Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Accurate Technology Co., Ltd.

Date of Test : Dec 02, 2013-Feb 28, 2014

Prepared by :



(Tim.zhang, Engineer)

Approved & Authorized Signer :



(Sean, Manager)

1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
Power Line Conducted Emission	FCC Part 15 Subpart B	Pass
Radiated Emission	FCC Part 15 Subpart B	Pass

2. GENERAL INFORMATION

2.1.Product of Device (EUT)

EUT	:	Novo7 Crystal II User manual
Model Number	:	Novo7 Crystal II
Frequency Range	:	802.11b/g/n(20MHz): 2412-2462MHz 802.11n(40MHz): 2422-2452MHz
Number of Channels	:	802.11b/g/n (20MHz):11 802.11n (40MHz): 7
Antenna Gain	:	1.5dBi
Type of Antenna	:	Integral Antenna
Power Supply	:	DC 3.7V (Powered by Battery) AC 120V/60Hz (Powered by Adapter)
Data Rate	:	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: up to 150Mbps
Adapter	:	Model:SJ-0520-E Input: AC 100-240V 50/60Hz 0.5A Output: 5.0V 2.0A
Modulation Type	:	CCK, OFDM
Applicant	:	SHENZHEN AINOL ELECTRON CO.,LTD
Address	:	Room 606,Bldg B,7 Star Business Plaza, Minzhi Street, Longhua District, Shenzhen, China
Manufacturer	:	SHENZHEN AINOL ELECTRON CO.,LTD
Address	:	Room 606,Bldg B,7 Star Business Plaza, Minzhi Street, Longhua District, Shenzhen, China
Date of sample received	:	Dec 02, 2013
Date of Test	:	Dec 02, 2013-Feb 28, 2014

2.2.Accessory and Auxiliary Equipment

HDTV	Manufacturer: DELL
	M/N: 1704FPTt
	Serial No.: 709913441

2.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen, May 10, 2004

Listed by FCC
The Registration Number is 253065
Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-1
Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee for
Laboratories
The Certificate Registration Number is L3193

Name of Firm : Accurate Technology Co., Ltd.
Site Location : F1, Bldg. A&D, Changyuan New Material Port, Keyuan
Rd., Science & Industry Park, Nanshan District, Shenzhen
518057, P.R. China

2.4. Measurement Uncertainty

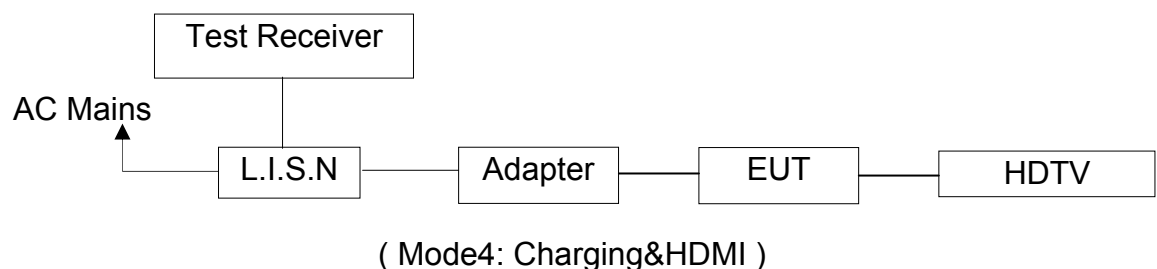
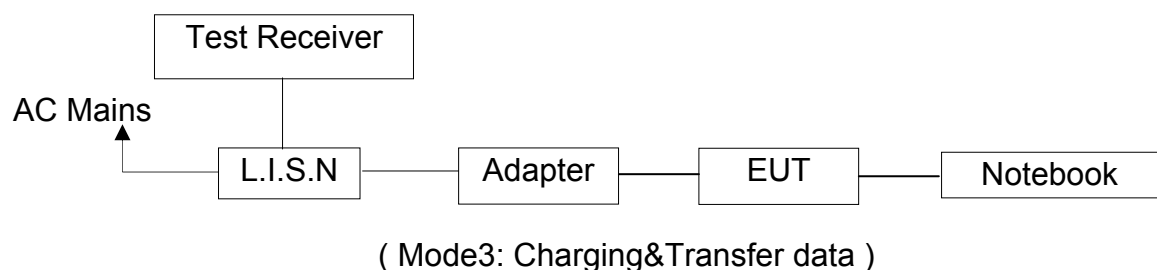
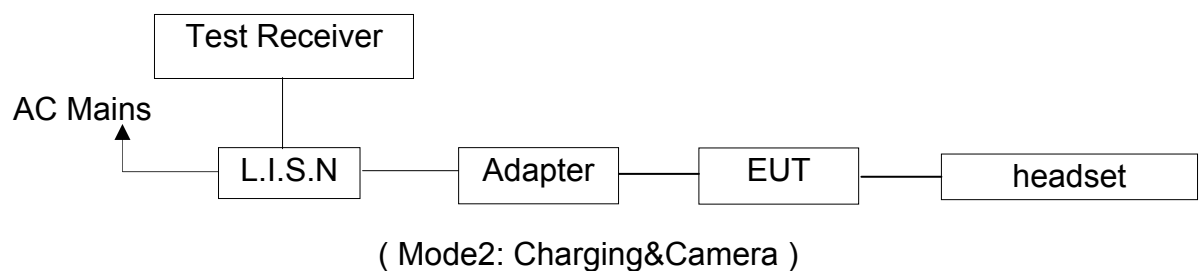
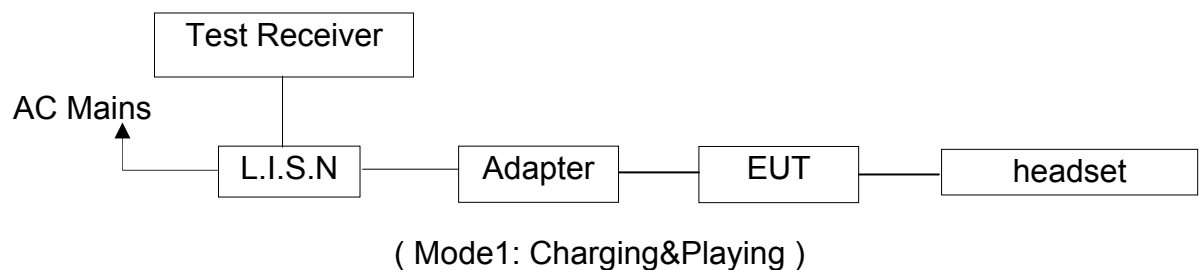
Conducted emission expanded uncertainty : U=2.23dB, k=2
Power disturbance expanded uncertainty : U=2.92dB, k=2
Radiated emission expanded uncertainty : U=3.08dB, k=2
(9kHz-30MHz)
Radiated emission expanded uncertainty : U=4.42dB, k=2
(30MHz-1000MHz)
Radiated emission expanded uncertainty : U=4.06dB, k=2
(Above 1GHz)

3. POWER LINE CONDUCTED MEASUREMENT

3.1. For Power Line Conducted Emission

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan. 11, 2014	1 Year
2.	L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan. 11, 2014	1 Year
3.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	Jan. 11, 2014	1 Year
4.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	Jan. 11, 2014	1 Year
Expanded Uncertainty: U= 2.23dB, k=2						

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Measurement Limits (Class B)

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15—0.50	66—56*	56—46*
0.50—5.00	56	46
5.00—30.0	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Measurement

The equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipment.

3.5.3. Let the EUT work in test mode and measure it.

3.6. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Test mode : Charging+Playing

MEASUREMENT RESULT: "C-1206-F06_fin"

12/6/2013 4:12PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.659627	47.80	10.8	56	8.2	QP	L1	GND
0.855047	47.90	10.8	56	8.1	QP	L1	GND
1.840191	47.90	11.0	56	8.1	QP	L1	GND

MEASUREMENT RESULT: "C-1206-F06_fin2"

12/6/2013 4:12PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.271903	33.50	10.6	51	17.6	AV	L1	GND
0.659627	30.40	10.8	46	15.6	AV	L1	GND
0.889871	27.10	10.8	46	18.9	AV	L1	GND

MEASUREMENT RESULT: "C-1206-F05_fin"

12/6/2013 4:09PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.548969	41.60	10.7	56	14.4	QP	N	GND
0.755518	42.30	10.8	56	13.7	QP	N	GND
1.899908	45.40	11.0	56	10.6	QP	N	GND

MEASUREMENT RESULT: "C-1206-F05_fin2"

12/6/2013 4:09PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.656999	26.70	10.8	46	19.3	AV	N	GND
1.043940	23.70	10.9	46	22.3	AV	N	GND
17.696120	25.00	11.4	50	25.0	AV	N	GND

Test mode : Charging+ Camera

MEASUREMENT RESULT: "C-1206-F03_fin"

12/6/2013 4:03PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.670245	46.60	10.8	56	9.4	QP	L1	GND
0.828172	47.10	10.8	56	8.9	QP	L1	GND
1.977287	48.80	11.0	56	7.2	QP	L1	GND

MEASUREMENT RESULT: "C-1206-F03_fin2"

12/6/2013 4:03PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.274083	33.00	10.6	51	18.0	AV	L1	GND
0.479294	30.30	10.7	46	16.1	AV	L1	GND
1.172069	24.50	10.9	46	21.5	AV	L1	GND

MEASUREMENT RESULT: "C-1206-F04_fin"

12/6/2013 4:06PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.529596	41.40	10.7	56	14.6	QP	N	GND
0.662266	42.60	10.8	56	13.4	QP	N	GND
1.899908	45.60	11.0	56	10.4	QP	N	GND

MEASUREMENT RESULT: "C-1206-F04_fin2"

12/6/2013 4:06PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.464229	28.80	10.7	47	17.8	AV	N	GND
1.305460	27.10	10.9	46	18.9	AV	N	GND
18.416843	24.40	11.4	50	25.6	AV	N	GND

Test mode : Charging+ Transfer data								
MEASUREMENT RESULT: "C-1206-F08_fin"								
12/6/2013 4:34PM								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.675618	40.00	10.8	56	16.0	QP	N	GND	
0.821586	41.90	10.8	56	14.1	QP	N	GND	
1.899908	43.90	11.0	56	12.1	QP	N	GND	
MEASUREMENT RESULT: "C-1206-F08_fin2"								
12/6/2013 4:34PM								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.795762	23.40	10.8	46	22.6	AV	N	GND	
0.991146	22.50	10.8	46	23.5	AV	N	GND	
18.938744	16.50	11.4	50	33.5	AV	N	GND	
MEASUREMENT RESULT: "C-1206-F07_fin"								
12/6/2013 4:31PM								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.594596	44.90	10.7	56	11.1	QP	L1	GND	
1.969409	47.50	11.0	56	8.5	QP	L1	GND	
5.195511	40.80	11.2	60	19.2	QP	L1	GND	
MEASUREMENT RESULT: "C-1206-F07_fin2"								
12/6/2013 4:31PM								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.594596	26.90	10.7	46	19.1	AV	L1	GND	
0.922424	23.90	10.8	46	22.1	AV	L1	GND	
18.052886	22.40	11.4	50	27.6	AV	L1	GND	

Note: During the test, Let the EUT and PC maintain the status of transfer data to each other

Test mode : Charging+ HDMI Playing

MEASUREMENT RESULT: "C-1206-F02_fin"

12/6/2013 4:00PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.868810	49.90	10.8	56	6.1	QP	L1	GND
1.993137	52.70	11.0	56	3.3	QP	L1	GND
6.575326	47.60	11.2	60	12.4	QP	L1	GND

MEASUREMENT RESULT: "C-1206-F02_fin2"

12/6/2013 4:00PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.467950	35.10	10.7	47	11.5	AV	L1	GND
1.938212	34.50	11.0	46	11.5	AV	L1	GND
6.267765	28.20	11.2	50	21.8	AV	L1	GND

MEASUREMENT RESULT: "C-1206-F01_fin"

12/6/2013 3:58PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.767679	45.20	10.8	56	10.8	QP	N	GND
1.977287	47.90	11.0	56	8.1	QP	N	GND
7.837917	40.70	11.2	60	19.3	QP	N	GND

MEASUREMENT RESULT: "C-1206-F01_fin2"

12/6/2013 3:58PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.479294	32.20	10.7	46	14.2	AV	N	GND
1.930490	32.60	11.0	46	13.4	AV	N	GND
6.292837	27.50	11.2	50	22.5	AV	N	GND

Note: During the test, Let HDTV display the content of EUT.

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

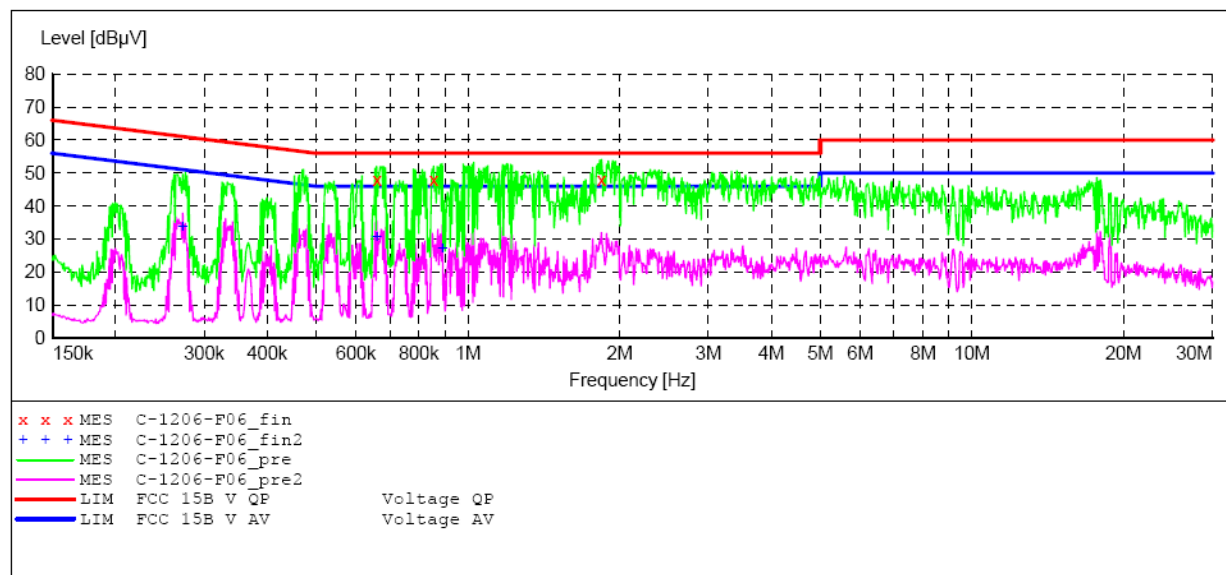
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Novo7 Crystal II User Manual M/N:Novo7 Crystal II
 Manufacturer: Ainol
 Operating Condition: Video Playing
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report NO:ATE20132534
 Start of Test: 12/6/2013 / 4:10:10PM

SCAN TABLE: "V 150K-30MHZ fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "C-1206-F06_fin"

12/6/2013 4:12PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.659627	47.80	10.8	56	8.2	QP	L1	GND
0.855047	47.90	10.8	56	8.1	QP	L1	GND
1.840191	47.90	11.0	56	8.1	QP	L1	GND

MEASUREMENT RESULT: "C-1206-F06_fin2"

12/6/2013 4:12PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.271903	33.50	10.6	51	17.6	AV	L1	GND
0.659627	30.40	10.8	46	15.6	AV	L1	GND
0.889871	27.10	10.8	46	18.9	AV	L1	GND

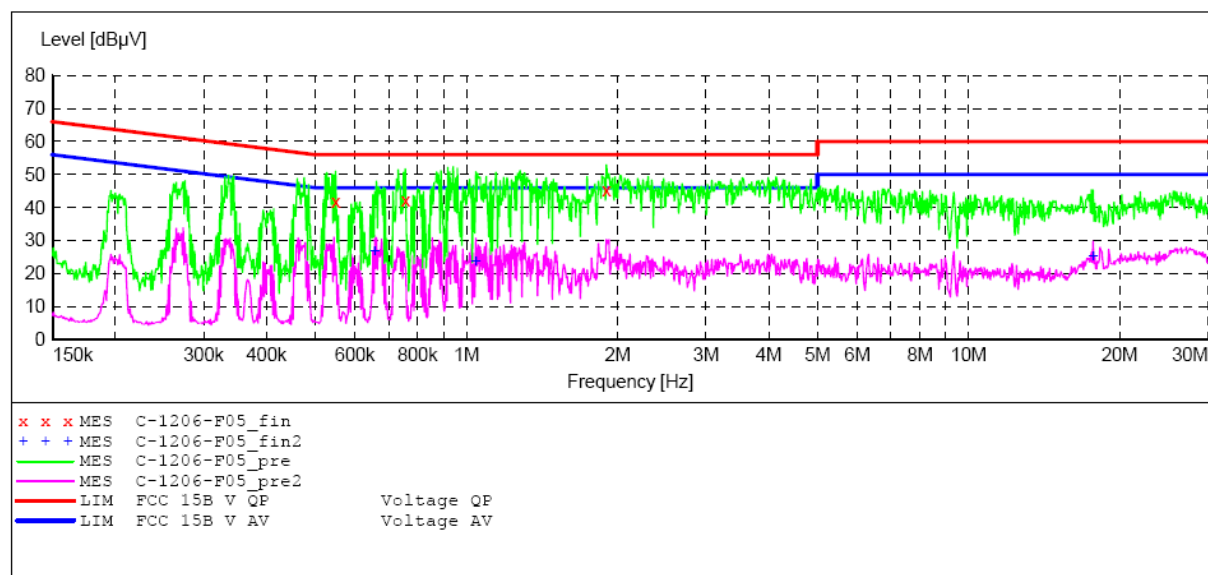
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Novo7 Crystal II User Manual M/N:Novo7 Crystal II
 Manufacturer: Ainol
 Operating Condition: Video Playing
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report NO:ATE20132534
 Start of Test: 12/6/2013 / 4:07:05PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "C-1206-F05_fin"

12/6/2013 4:09PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.548969	41.60	10.7	56	14.4	QP	N	GND
0.755518	42.30	10.8	56	13.7	QP	N	GND
1.899908	45.40	11.0	56	10.6	QP	N	GND

MEASUREMENT RESULT: "C-1206-F05_fin2"

12/6/2013 4:09PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.656999	26.70	10.8	46	19.3	AV	N	GND
1.043940	23.70	10.9	46	22.3	AV	N	GND
17.696120	25.00	11.4	50	25.0	AV	N	GND

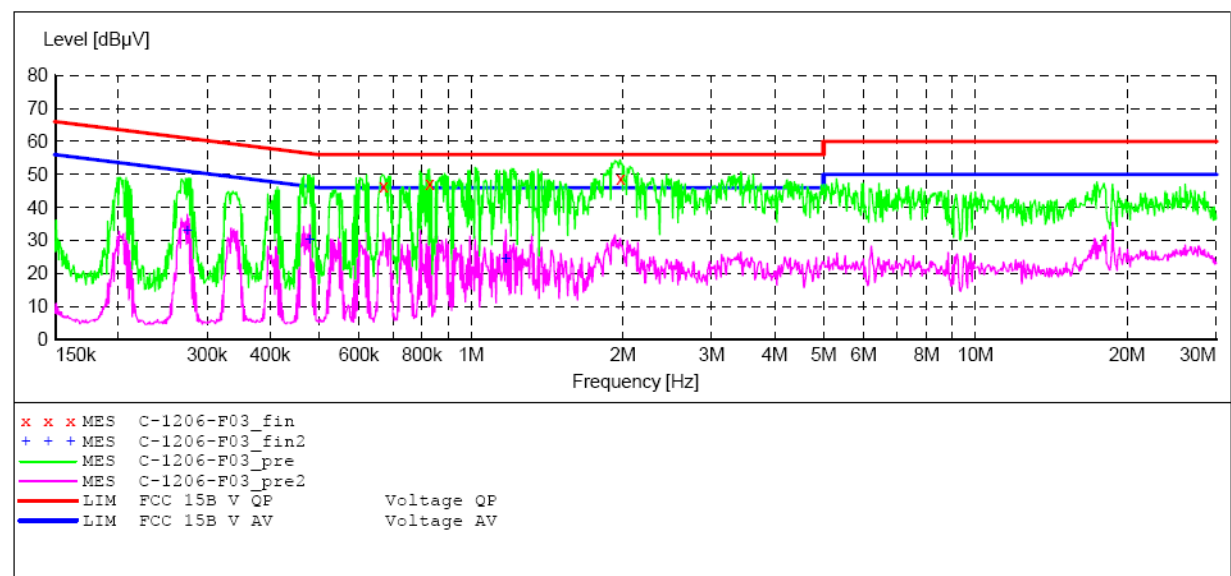
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Novo7 Crystal II User Manual M/N:Novo7 Crystal II
 Manufacturer: Ainol
 Operating Condition: Camera
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report NO:ATE20132534
 Start of Test: 12/6/2013 / 4:01:25PM

SCAN TABLE: "V 150K-30MHZ fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "C-1206-F03_fin"

12/6/2013 4:03PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.670245	46.60	10.8	56	9.4	QP	L1	GND
0.828172	47.10	10.8	56	8.9	QP	L1	GND
1.977287	48.80	11.0	56	7.2	QP	L1	GND

MEASUREMENT RESULT: "C-1206-F03_fin2"

12/6/2013 4:03PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.274083	33.00	10.6	51	18.0	AV	L1	GND
0.479294	30.30	10.7	46	16.1	AV	L1	GND
1.172069	24.50	10.9	46	21.5	AV	L1	GND

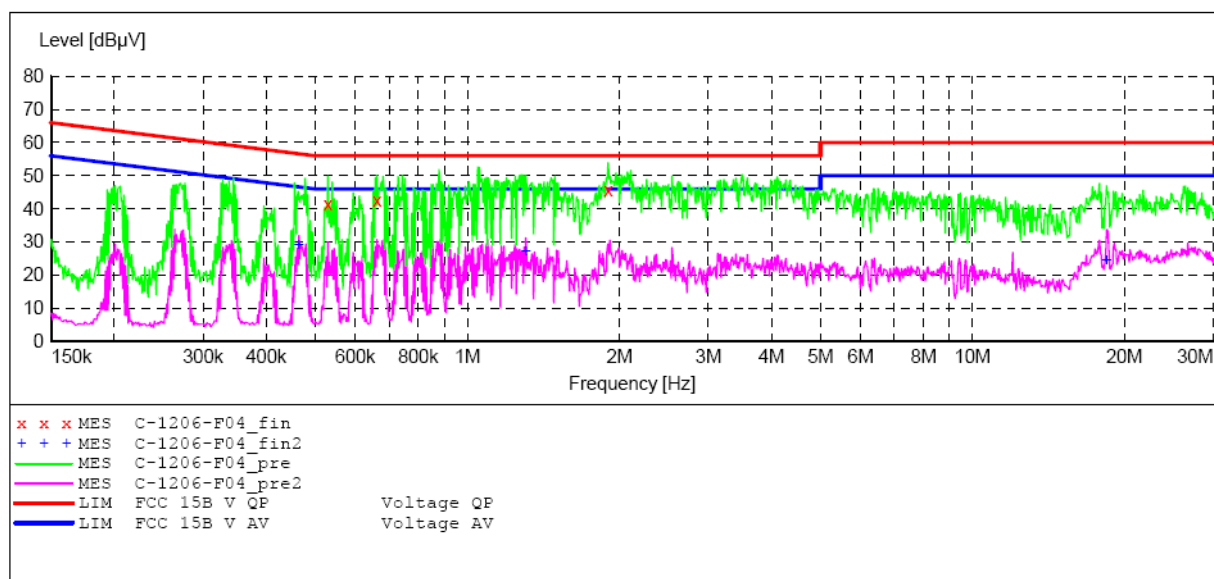
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Novo7 Crystal II User Manual M/N:Novo7 Crystal II
 Manufacturer: Ainol
 Operating Condition: Camera
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report NO:ATE20132534
 Start of Test: 12/6/2013 / 4:04:03PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "C-1206-F04_fin"

12/6/2013 4:06PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.529596	41.40	10.7	56	14.6	QP	N	GND
0.662266	42.60	10.8	56	13.4	QP	N	GND
1.899908	45.60	11.0	56	10.4	QP	N	GND

MEASUREMENT RESULT: "C-1206-F04_fin2"

12/6/2013 4:06PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.464229	28.80	10.7	47	17.8	AV	N	GND
1.305460	27.10	10.9	46	18.9	AV	N	GND
18.416843	24.40	11.4	50	25.6	AV	N	GND

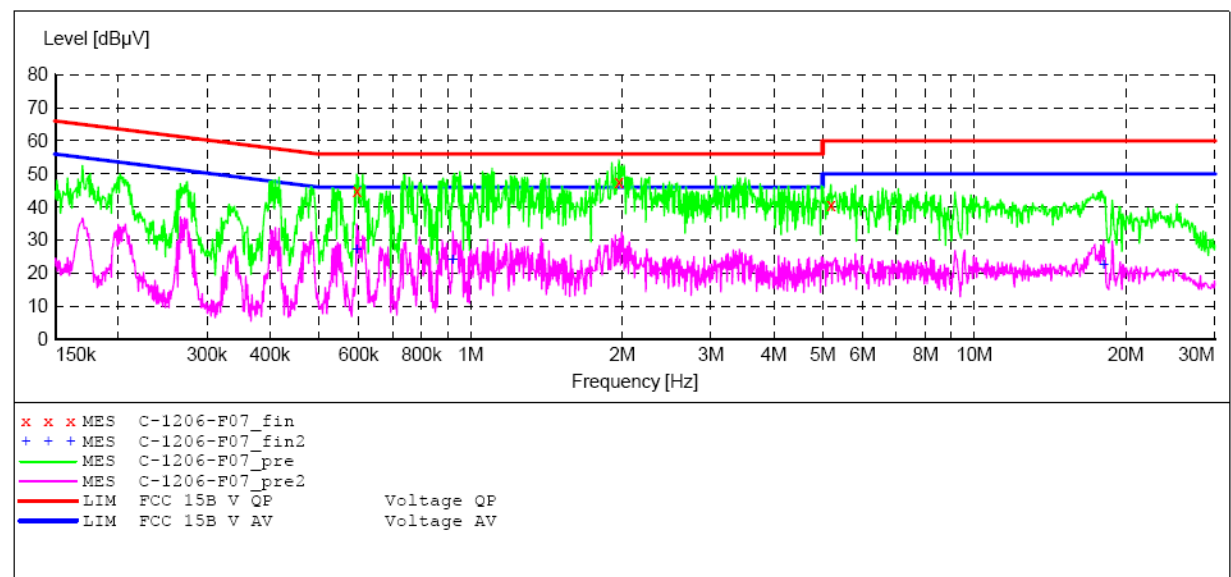
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Novo7 Crystal II User Manual M/N:Novo7 Crystal II
 Manufacturer: Ainol
 Operating Condition: Transfer data
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report NO:ATE20132534
 Start of Test: 12/6/2013 / 4:29:22PM

SCAN TABLE: "V 150K-30MHZ fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "C-1206-F07_fin"

12/6/2013 4:31PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.594596	44.90	10.7	56	11.1	QP	L1	GND
1.969409	47.50	11.0	56	8.5	QP	L1	GND
5.195511	40.80	11.2	60	19.2	QP	L1	GND

MEASUREMENT RESULT: "C-1206-F07_fin2"

12/6/2013 4:31PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.594596	26.90	10.7	46	19.1	AV	L1	GND
0.922424	23.90	10.8	46	22.1	AV	L1	GND
18.052886	22.40	11.4	50	27.6	AV	L1	GND

ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15B

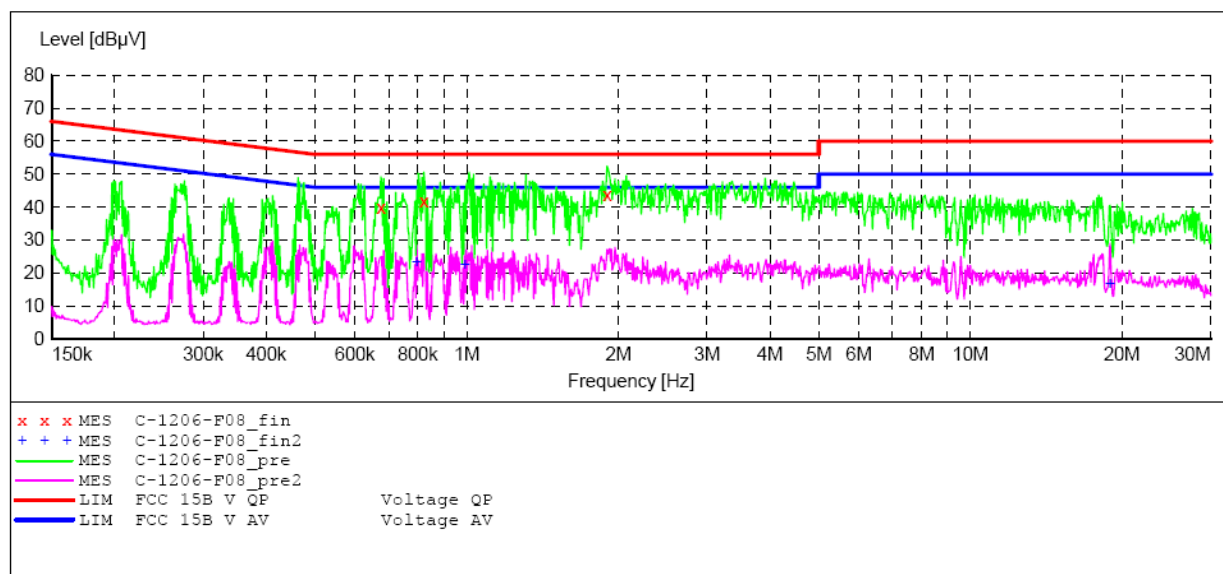
EUT: Novo7 Crystal II User Manual M/N:Novo7 Crystal II
 Manufacturer: Ainol
 Operating Condition: Transfer data
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report NO:ATE20132534
 Start of Test: 12/6/2013 / 4:32:35PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008

Average



MEASUREMENT RESULT: "C-1206-F08_fin"

12/6/2013 4:34PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.675618	40.00	10.8	56	16.0	QP	N	GND
0.821586	41.90	10.8	56	14.1	QP	N	GND
1.899908	43.90	11.0	56	12.1	QP	N	GND

MEASUREMENT RESULT: "C-1206-F08_fin2"

12/6/2013 4:34PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.795762	23.40	10.8	46	22.6	AV	N	GND
0.991146	22.50	10.8	46	23.5	AV	N	GND
18.938744	16.50	11.4	50	33.5	AV	N	GND

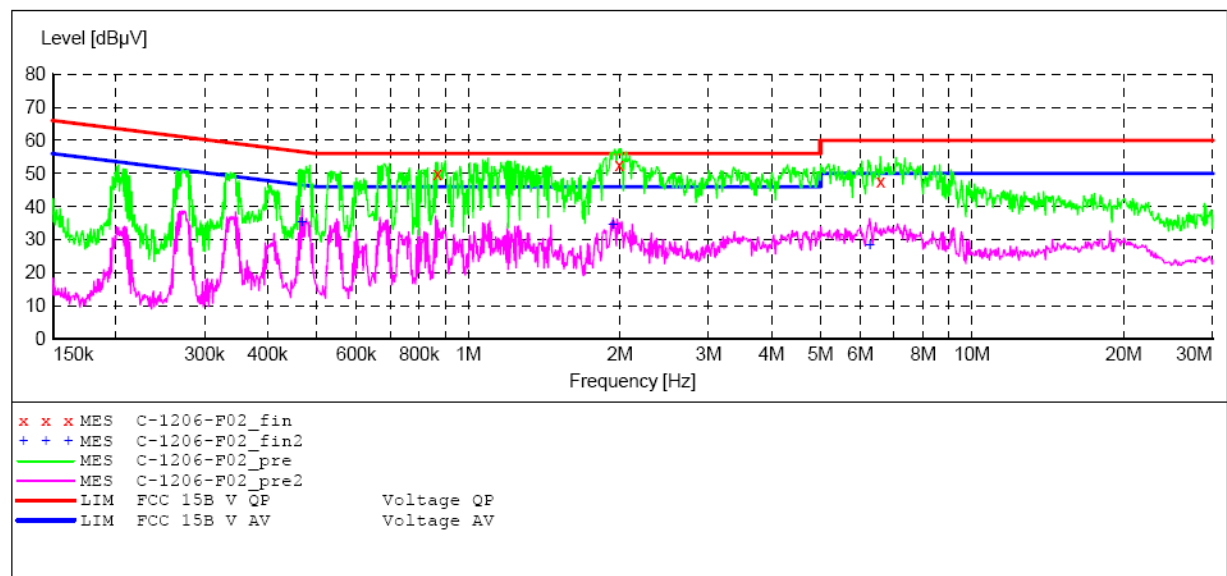
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Novo7 Crystal II User Manual M/N:Novo7 Crystal II
 Manufacturer: Ainol
 Operating Condition: HDMI
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report NO:ATE20132534
 Start of Test: 12/6/2013 / 3:58:33PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "C-1206-F02_fin"

12/6/2013 4:00PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.868810	49.90	10.8	56	6.1	QP	L1	GND
1.993137	52.70	11.0	56	3.3	QP	L1	GND
6.575326	47.60	11.2	60	12.4	QP	L1	GND

MEASUREMENT RESULT: "C-1206-F02_fin2"

12/6/2013 4:00PM

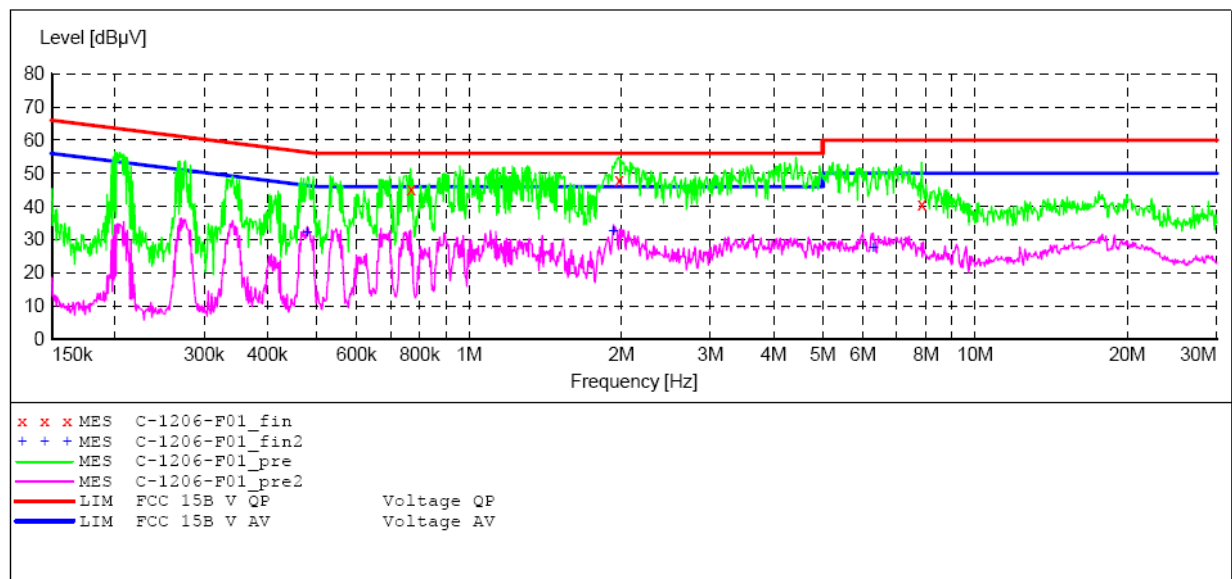
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.467950	35.10	10.7	47	11.5	AV	L1	GND
1.938212	34.50	11.0	46	11.5	AV	L1	GND
6.267765	28.20	11.2	50	21.8	AV	L1	GND

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Novo7 Crystal II User Manual M/N:Novo7 Crystal II
 Manufacturer: Ainol
 Operating Condition: HDMI
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report NO:ATE20132534
 Start of Test: 12/6/2013 / 3:55:57PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "C-1206-F01_fin"

12/6/2013 3:58PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.767679	45.20	10.8	56	10.8	QP	N	GND
1.977287	47.90	11.0	56	8.1	QP	N	GND
7.837917	40.70	11.2	60	19.3	QP	N	GND

MEASUREMENT RESULT: "C-1206-F01_fin2"

12/6/2013 3:58PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.479294	32.20	10.7	46	14.2	AV	N	GND
1.930490	32.60	11.0	46	13.4	AV	N	GND
6.292837	27.50	11.2	50	22.5	AV	N	GND

4. RADIATED EMISSION MEASUREMENT

4.1. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 11, 2014	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan. 11, 2014	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2014	1 Year
4.	Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2014	1 Year
5.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2014	1 Year
6.	50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan. 11, 2014	1 Year
12.	Pre-Amplifier	Rohde & Schwarz	CBLU11835 40-01	3791	Jan. 11, 2014	1 Year

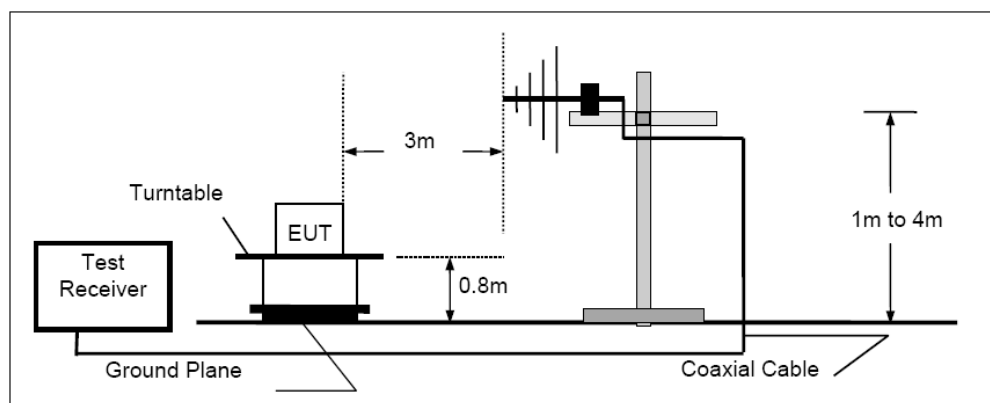
Expanded Uncertainty (9kHz-30MHz): U=3.08dB, k=2

Expanded Uncertainty (30MHz-1000MHz): U=4.42dB, k=2

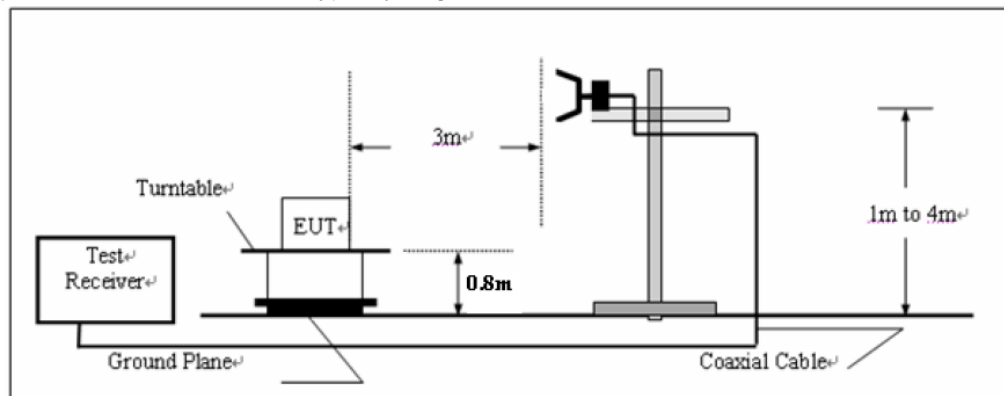
Expanded Uncertainty (Above 1GHz): U=4.06dB, k=2

4.2. TEST CONFIGURATION

(A) Radiated Emission Test Set-Up, Frequency below 1000MHz



(B) Radiated Emission Test Set-Up, Frequency above 1000MHz



4.3. Block Diagram of Test Setup

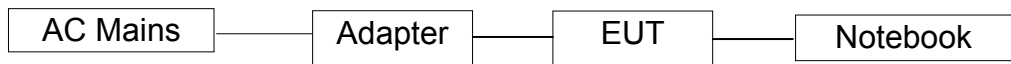
4.3.1. Block diagram of connection between the EUT and simulators



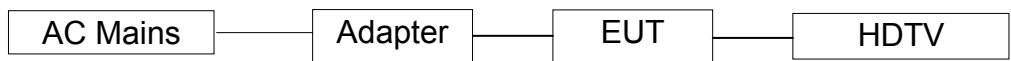
(Mode1: Charging&Playing)



(Mode2: Charging&Camera)

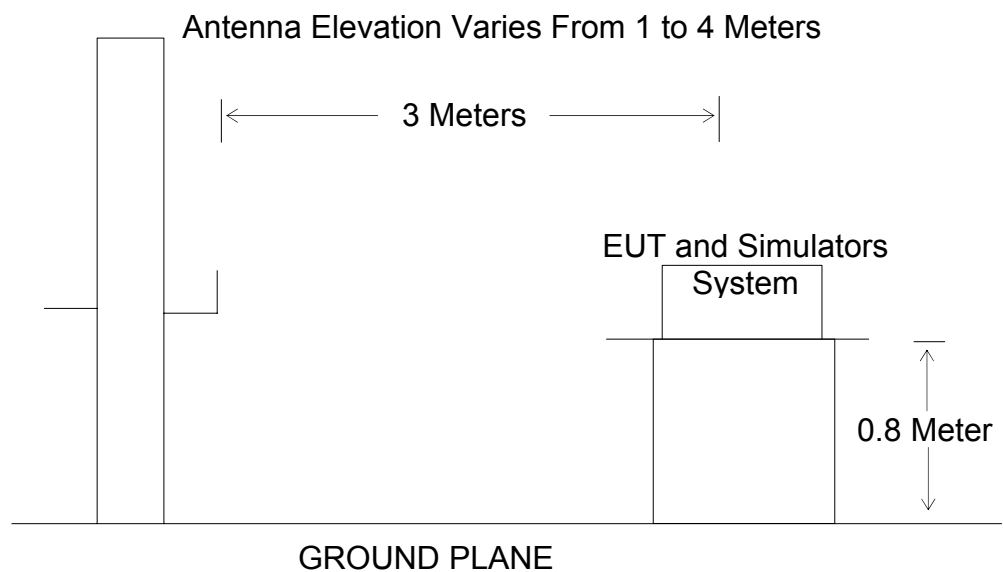


(Mode3: Charging&Transfer data)



(Mode4: Charging&HDMI)

4.3.2. Anechoic Chamber Test Setup Diagram



4.4. Radiated Emission Limit (Class B)

Frequency MHz	Distance Meters	Field Strengths Limit	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V/m})$
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
960-1000	3	500	54.0
Remark: (1) Emission level $\text{dB}(\mu\text{V}) = 20 \log$ Emission level $\mu\text{V/m}$. (2) The smaller limit shall apply at the cross point between two frequency bands. (3) Distance is the distance in meters between the measuring instrument antenna and the closest point of any part of the device or system.			

4.5. EUT Configuration on Measurement

The equipment is installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.6. Operating Condition of EUT

4.6.1. Setup the EUT and simulator as shown as Section 4.2.

4.6.2. Turn on the power of all equipment.

4.6.3. Let the EUT work in test mode and measure it.

4.7. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement.

The bandwidth of the EMI test receiver (R&S ESCS30) is set at 120kHz from 30MHz to 1000MHz.

The frequency range from 30MHz to 1000MHz is checked.

4.8.Radiated Emission Noise Measurement Result

PASS.

Test mode : Charging+ Playing

Horizontal

Below 1G

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.3750	51.64	-19.56	32.08	40.00	-7.92	QP
2	159.2250	58.87	-22.93	35.94	43.50	-7.56	QP
3	480.5276	51.68	-14.16	37.52	46.00	-8.48	QP

Above 1G

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1681.773	58.50	-9.01	49.49	74.00	-24.51	peak
2	1997.823	57.84	-7.80	50.04	74.00	-23.96	peak
3	2518.888	54.42	-6.44	47.98	74.00	-26.02	peak

Vertical

Below 1G

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	34.3963	54.89	-19.30	35.59	40.00	-4.41	QP
2	159.2250	55.63	-22.93	32.70	43.50	-10.80	QP
3	480.5276	50.01	-14.16	35.85	46.00	-10.15	QP

Above 1G

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1736.788	57.58	-8.80	48.78	74.00	-25.22	peak
2	1858.247	57.61	-8.34	49.27	74.00	-24.73	peak
3	2033.507	57.38	-7.71	49.67	74.00	-24.33	peak

Test mode : Charging+ Camera							
Horizontal	Below 1G						
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB) Detector
	1	312.1792	58.68	-17.61	41.07	46.00	-4.93 QP
	2	432.5457	57.10	-15.10	42.00	46.00	-4.00 QP
	3	480.5276	56.14	-14.16	41.98	46.00	-4.02 QP
	Above 1G						
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB) Detector
	1	1731.206	57.23	-8.82	48.41	74.00	-25.59 peak
	2	2017.209	57.57	-7.75	49.82	74.00	-24.18 peak
	3	2514.837	54.03	-6.45	47.58	74.00	-26.42 peak
Vertical	Below 1G						
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB) Detector
	1	71.8319	56.81	-21.45	35.36	40.00	-4.64 QP
	2	167.8242	59.62	-22.02	37.60	43.50	-5.90 QP
	3	383.9318	57.03	-15.76	41.27	46.00	-4.73 QP
	Above 1G						
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB) Detector
	1	1679.068	56.68	-9.01	47.67	74.00	-26.33 peak
	2	1855.259	56.47	-8.35	48.12	74.00	-25.88 peak
	3	2036.783	56.93	-7.70	49.23	74.00	-24.77 peak

Test mode : Charging+ Transfer data								
Horizontal	Below 1G							
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	167.8242	58.01	-22.02	35.99	43.50	-7.51	QP
	2	504.7062	48.32	-13.84	34.48	46.00	-11.52	QP
	3	912.8619	47.51	-5.91	41.60	46.00	-4.40	QP
	Above 1G							
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1742.387	58.16	-8.77	49.39	74.00	-24.61	peak
	2	1840.389	57.45	-8.40	49.05	74.00	-24.95	peak
	3	1994.611	57.17	-7.81	49.36	74.00	-24.64	peak
Vertical	Below 1G							
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	159.2250	54.12	-22.93	31.19	43.50	-12.31	QP
	2	180.0165	54.06	-21.85	32.21	43.50	-11.29	QP
	3	912.8619	44.35	-5.91	38.44	46.00	-7.56	QP
	Above 1G							
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1670.981	57.99	-9.05	48.94	74.00	-25.06	peak
	2	1837.429	58.43	-8.41	50.02	74.00	-23.98	peak
	3	1994.611	58.45	-7.81	50.64	74.00	-23.36	peak

Note: During the test, Let the EUT and PC maintain the status of transfer data to each other

Test mode : Charging+ HDMI								
Horizontal	Below 1G							
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	159.2250	59.50	-22.93	36.57	43.50	-6.93	QP
	2	372.0045	51.42	-15.84	35.58	46.00	-10.42	QP
	3	965.5421	44.10	-5.18	38.92	54.00	-15.08	QP
	Above 1G							
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1855.259	58.42	-8.35	50.07	74.00	-23.93	peak
	2	2033.507	57.63	-7.71	49.92	74.00	-24.08	peak
	3	3343.702	54.67	-3.89	50.78	74.00	-23.22	peak
Vertical	Below 1G							
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	159.2250	60.71	-22.93	37.78	43.50	-5.72	QP
	2	242.5252	57.65	-19.78	37.87	46.00	-8.13	QP
	3	813.1115	47.55	-7.55	40.00	46.00	-6.00	QP
	Above 1G							
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1855.259	58.31	-8.35	49.96	74.00	-24.04	peak
	2	2033.507	57.78	-7.71	50.07	74.00	-23.93	peak
	3	3343.702	54.37	-3.89	50.48	74.00	-23.52	peak

Note: During the test, Let HDTV display the content of EUT.

Below 1G



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2675

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Video Playing

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Horizontal

Power Source: AC 120V/60Hz

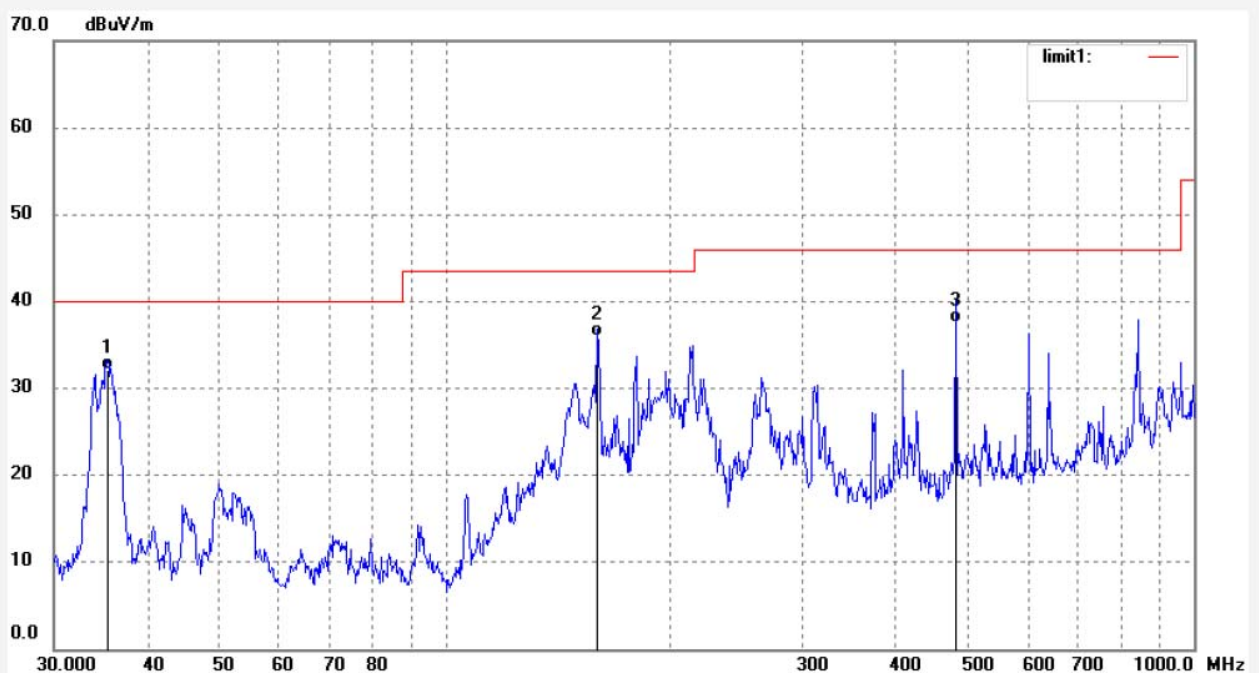
Date: 13/12/04/

Time: 11/48/51

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.3750	51.64	-19.56	32.08	40.00	-7.92	QP			
2	159.2250	58.87	-22.93	35.94	43.50	-7.56	QP			
3	480.5276	51.68	-14.16	37.52	46.00	-8.48	QP			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20132534

Page 29 of 56

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2676

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Video Playing

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Vertical

Power Source: AC 120V/60Hz

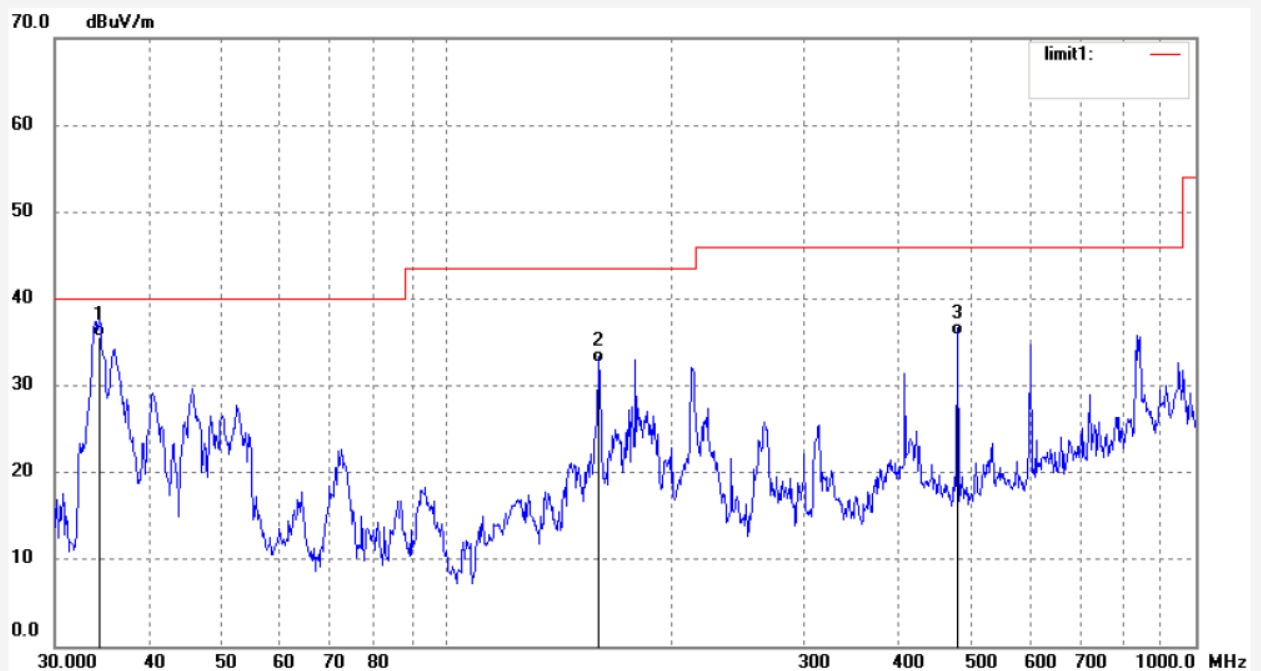
Date: 13/12/04/

Time: 11/50/07

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.3963	54.89	-19.30	35.59	40.00	-4.41	QP			
2	159.2250	55.63	-22.93	32.70	43.50	-10.80	QP			
3	480.5276	50.01	-14.16	35.85	46.00	-10.15	QP			

Job No.: alen #2678

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Camera

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Horizontal

Power Source: AC 120V/60Hz

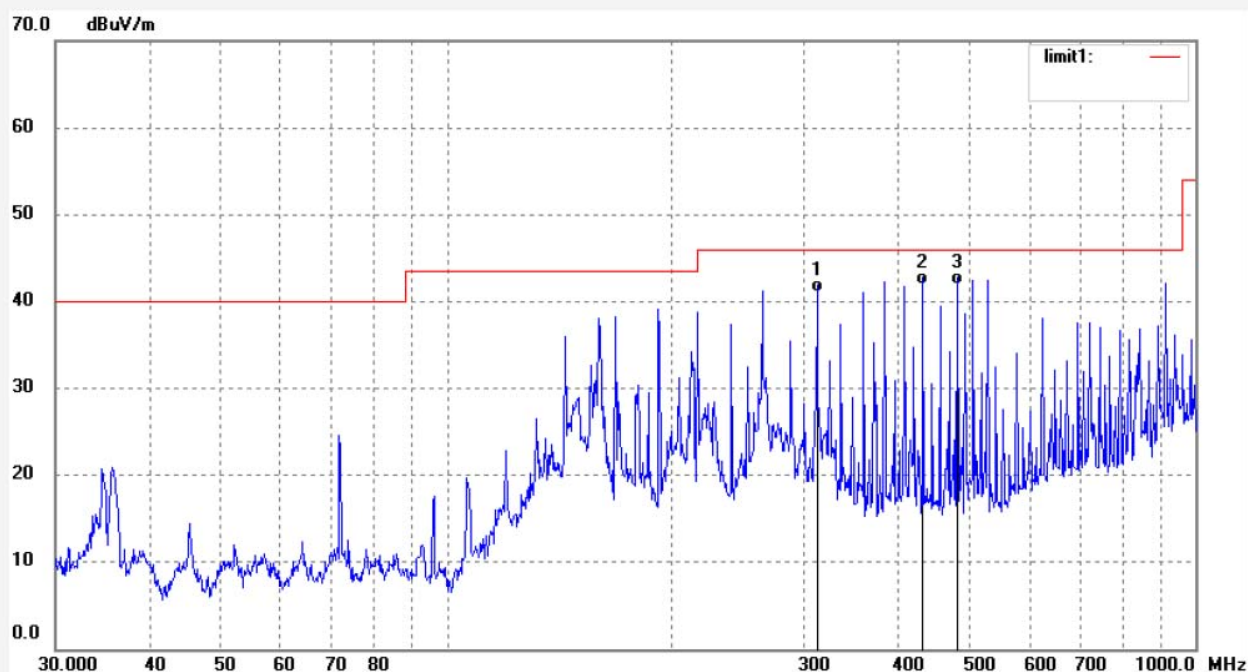
Date: 13/12/04/

Time: 11/54/25

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	312.1792	58.68	-17.61	41.07	46.00	-4.93	QP			
2	432.5457	57.10	-15.10	42.00	46.00	-4.00	QP			
3	480.5276	56.14	-14.16	41.98	46.00	-4.02	QP			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20132534

Page 31 of 56

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2677

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Camera

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Vertical

Power Source: AC 120V/60Hz

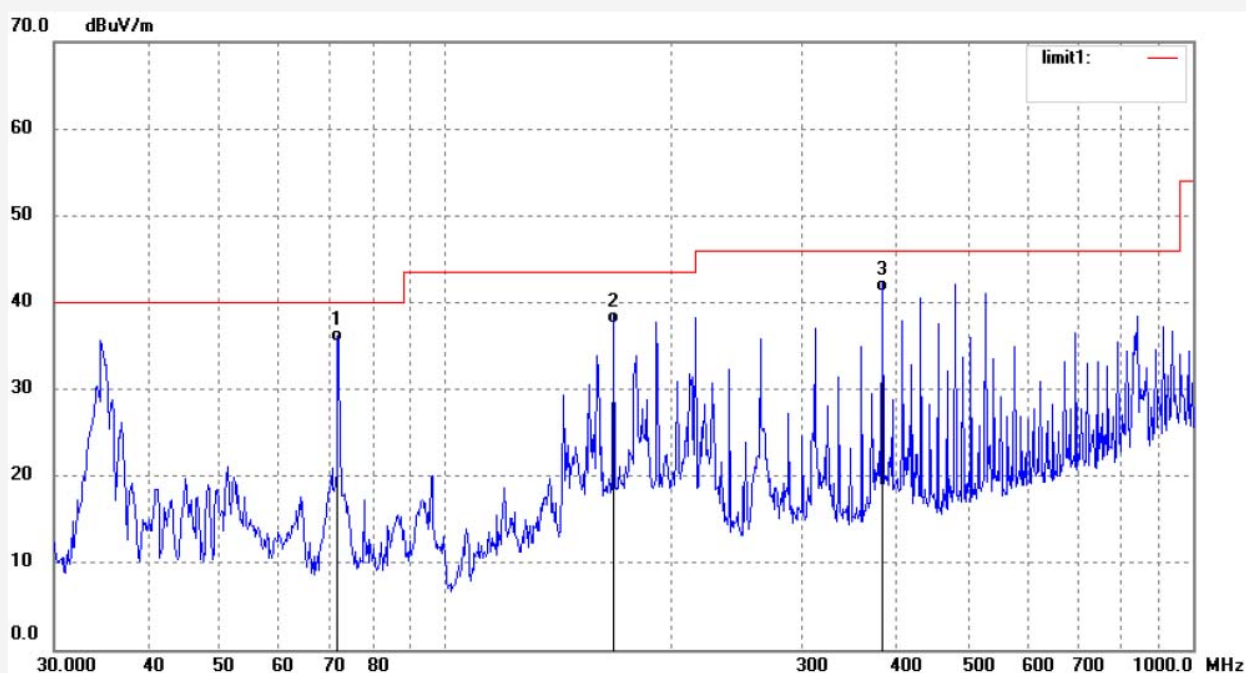
Date: 13/12/04/

Time: 11/52/42

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.8319	56.81	-21.45	35.36	40.00	-4.64	QP			
2	167.8242	59.62	-22.02	37.60	43.50	-5.90	QP			
3	383.9318	57.03	-15.76	41.27	46.00	-4.73	QP			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20132534

Page 32 of 56

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2682

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Transfer data

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Horizontal

Power Source: AC 120V/60Hz

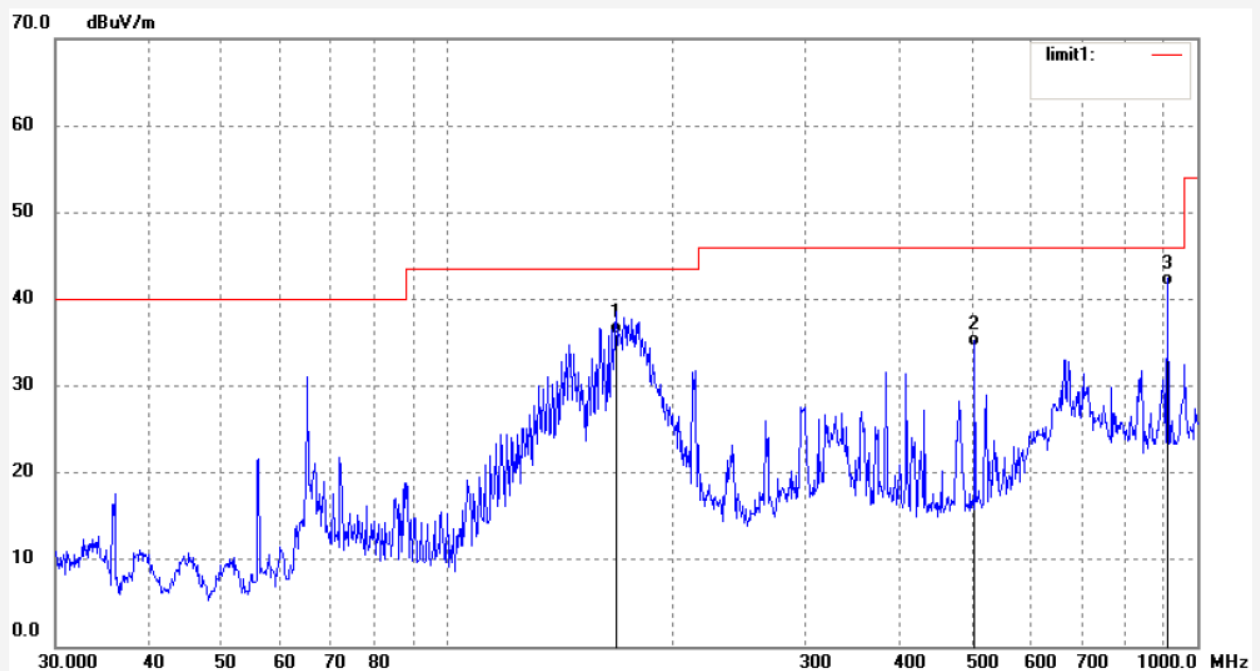
Date: 13/12/04/

Time: 13/52/56

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	167.8242	58.01	-22.02	35.99	43.50	-7.51	QP			
2	504.7062	48.32	-13.84	34.48	46.00	-11.52	QP			
3	912.8619	47.51	-5.91	41.60	46.00	-4.40	QP			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20132534

Page 33 of 56

Site: 1# Chamber

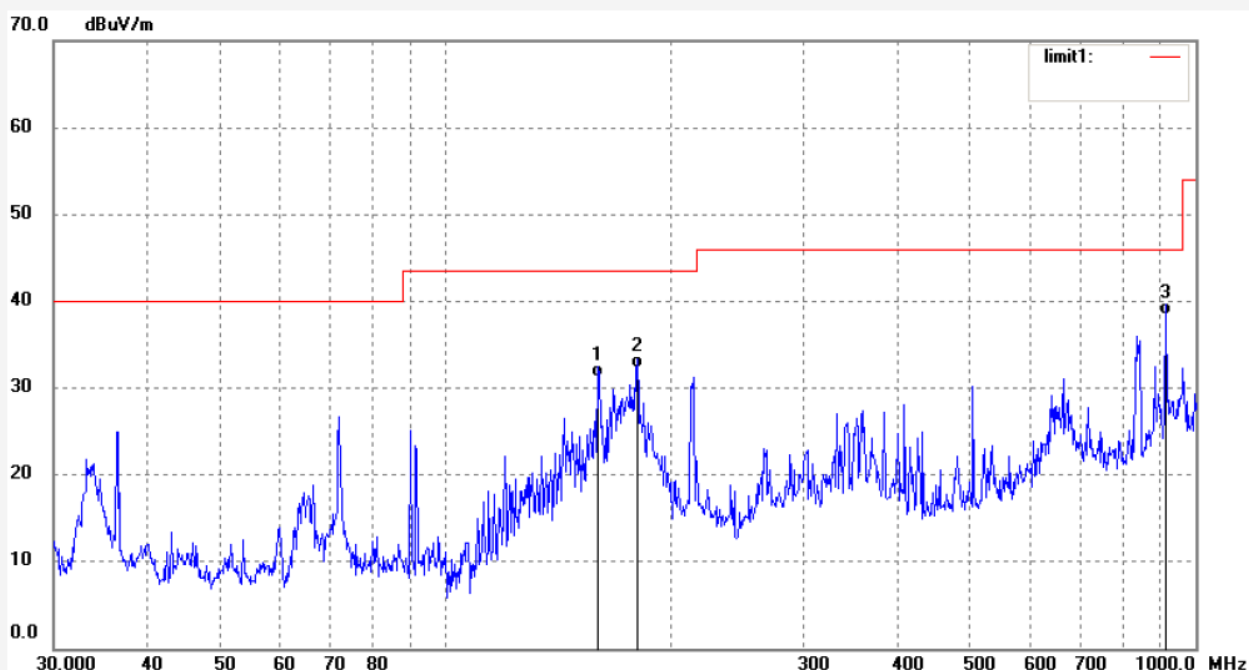
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2681
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Novo 7 Crystal II User Manual
Mode: Transfer data
Model: Novo 7 Crystal II
Manufacturer: Ainol

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 13/12/04/
Time: 13/51/41
Engineer Signature:
Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	159.2250	54.12	-22.93	31.19	43.50	-12.31	QP			
2	180.0165	54.06	-21.85	32.21	43.50	-11.29	QP			
3	912.8619	44.35	-5.91	38.44	46.00	-7.56	QP			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20132534

Page 34 of 56

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2679

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Charging&HDMI

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Horizontal

Power Source: AC 120V/60Hz

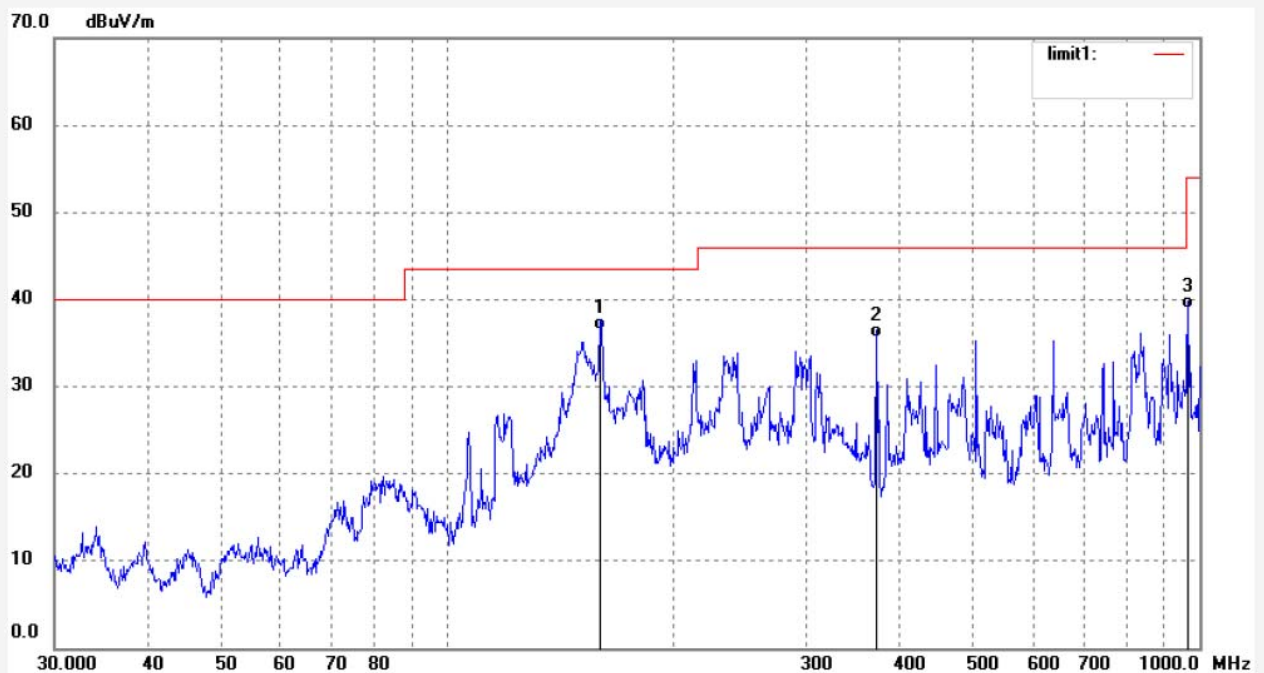
Date: 13/12/04/

Time: 13/46/45

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	159.2250	59.50	-22.93	36.57	43.50	-6.93	QP			
2	372.0045	51.42	-15.84	35.58	46.00	-10.42	QP			
3	965.5421	44.10	-5.18	38.92	54.00	-15.08	QP			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20132534

Page 35 of 56

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2680

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Charging&HDMI

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Vertical

Power Source: AC 120V/60Hz

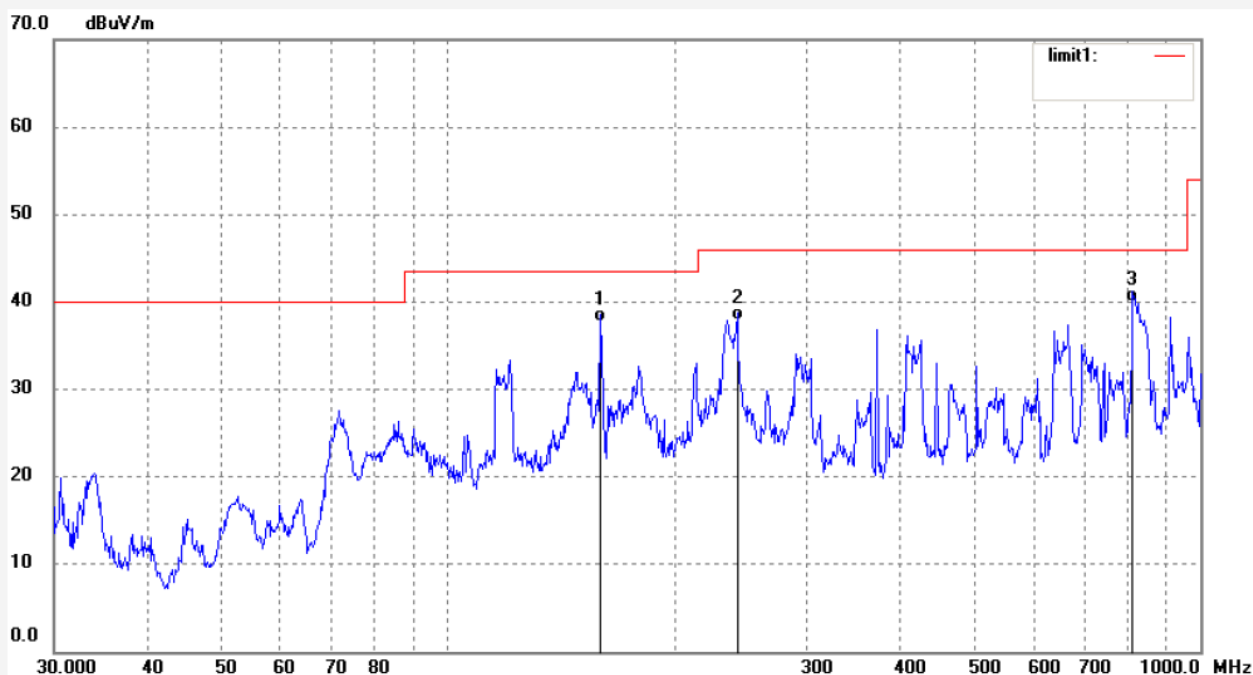
Date: 13/12/04/

Time: 13/48/27

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	159.2250	60.71	-22.93	37.78	43.50	-5.72	QP			
2	242.5252	57.65	-19.78	37.87	46.00	-8.13	QP			
3	813.1115	47.55	-7.55	40.00	46.00	-6.00	QP			

Above 1G



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #3100

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Charging&Video Playing

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Horizontal

Power Source: AC 120V/60Hz

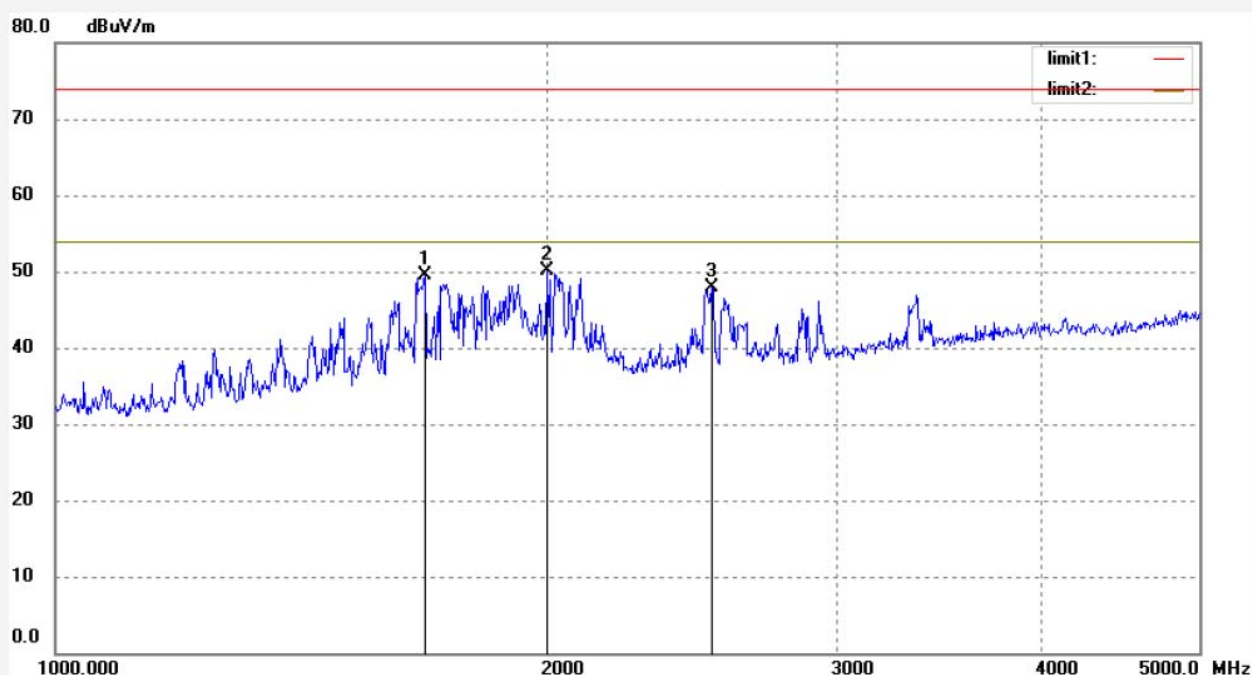
Date: 2013/12/16

Time: 14:17:46

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1681.773	58.50	-9.01	49.49	74.00	-24.51	peak			
2	1997.823	57.84	-7.80	50.04	74.00	-23.96	peak			
3	2518.888	54.42	-6.44	47.98	74.00	-26.02	peak			

Job No.: alen #3099

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Charging&Video Playing

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Vertical

Power Source: AC 120V/60Hz

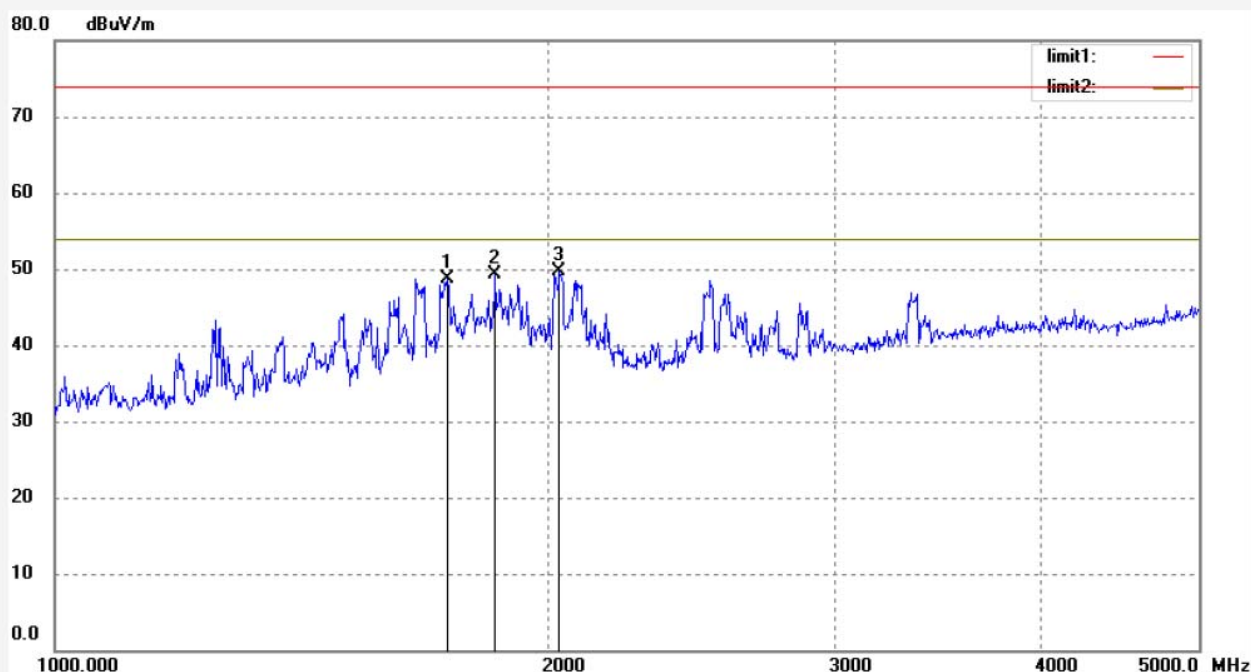
Date: 2013/12/16

Time: 14:17:16

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1736.788	57.58	-8.80	48.78	74.00	-25.22	peak			
2	1858.247	57.61	-8.34	49.27	74.00	-24.73	peak			
3	2033.507	57.38	-7.71	49.67	74.00	-24.33	peak			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20132534

Page 38 of 56

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #3101

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Charging&Camera

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Horizontal

Power Source: AC 120V/60Hz

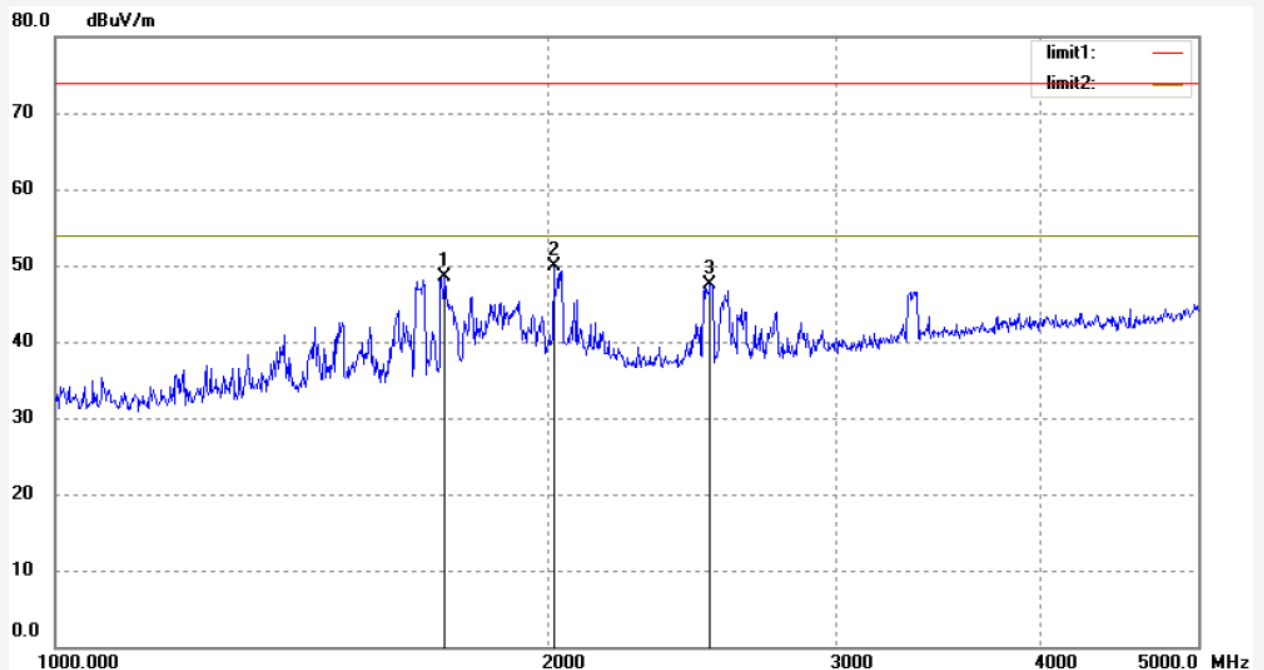
Date: 2013/12/16

Time: 14:19:02

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1731.206	57.23	-8.82	48.41	74.00	-25.59	peak			
2	2017.209	57.57	-7.75	49.82	74.00	-24.18	peak			
3	2514.837	54.03	-6.45	47.58	74.00	-26.42	peak			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20132534

Page 39 of 56

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #3102

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Charging&Camera

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Vertical

Power Source: AC 120V/60Hz

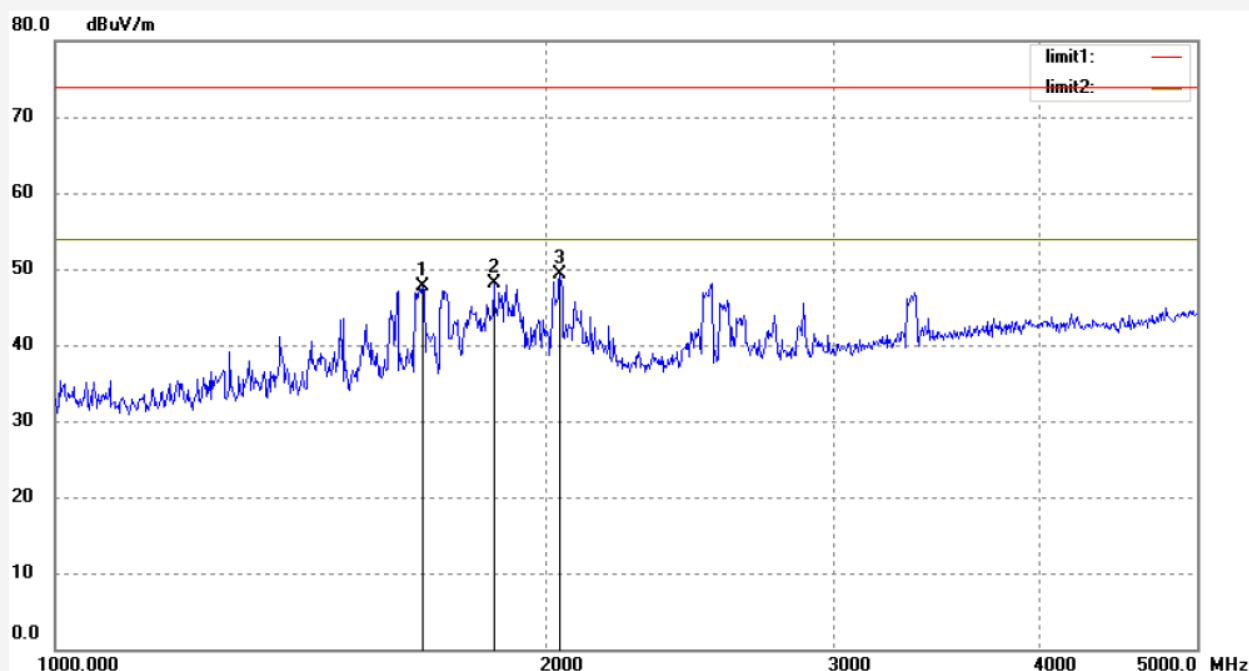
Date: 2013/12/16

Time: 14:19:47

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1679.068	56.68	-9.01	47.67	74.00	-26.33	peak			
2	1855.259	56.47	-8.35	48.12	74.00	-25.88	peak			
3	2036.783	56.93	-7.70	49.23	74.00	-24.77	peak			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20132534

Page 40 of 56

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #3097

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Charging&Transfer data

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Horizontal

Power Source: AC 120V/60Hz

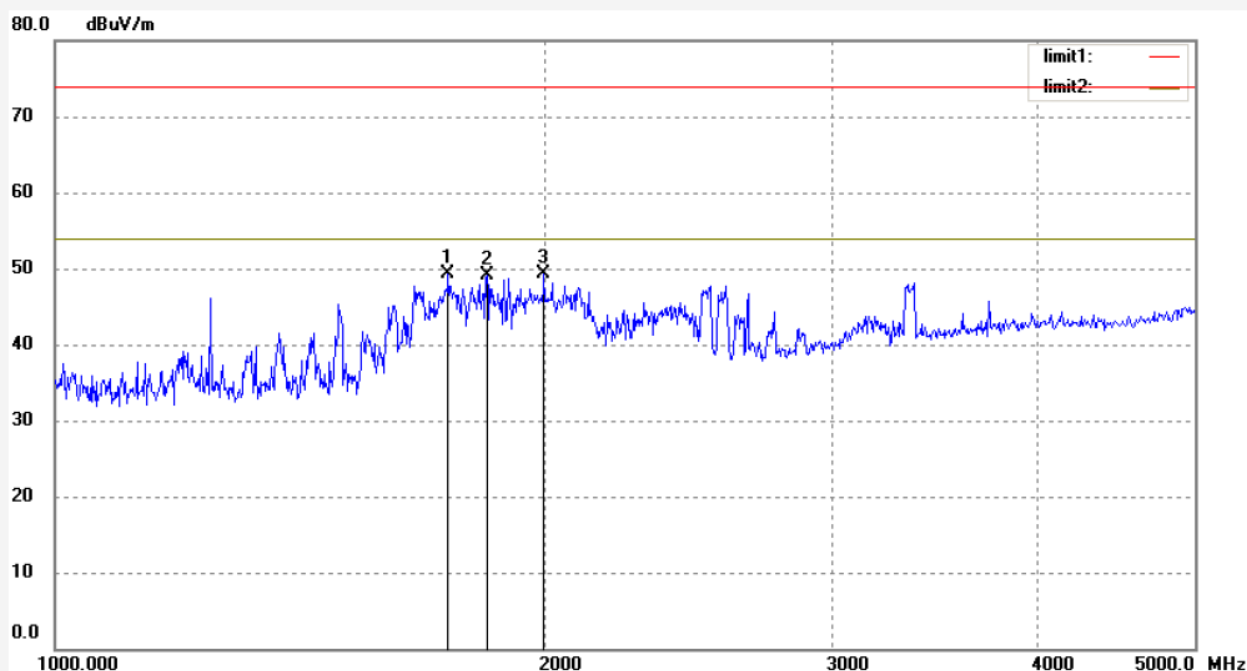
Date: 2013/12/16

Time: 14:15:25

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1742.387	58.16	-8.77	49.39	74.00	-24.61	peak			
2	1840.389	57.45	-8.40	49.05	74.00	-24.95	peak			
3	1994.611	57.17	-7.81	49.36	74.00	-24.64	peak			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20132534

Page 41 of 56

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #3098

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Charging&Transfer data

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Vertical

Power Source: AC 120V/60Hz

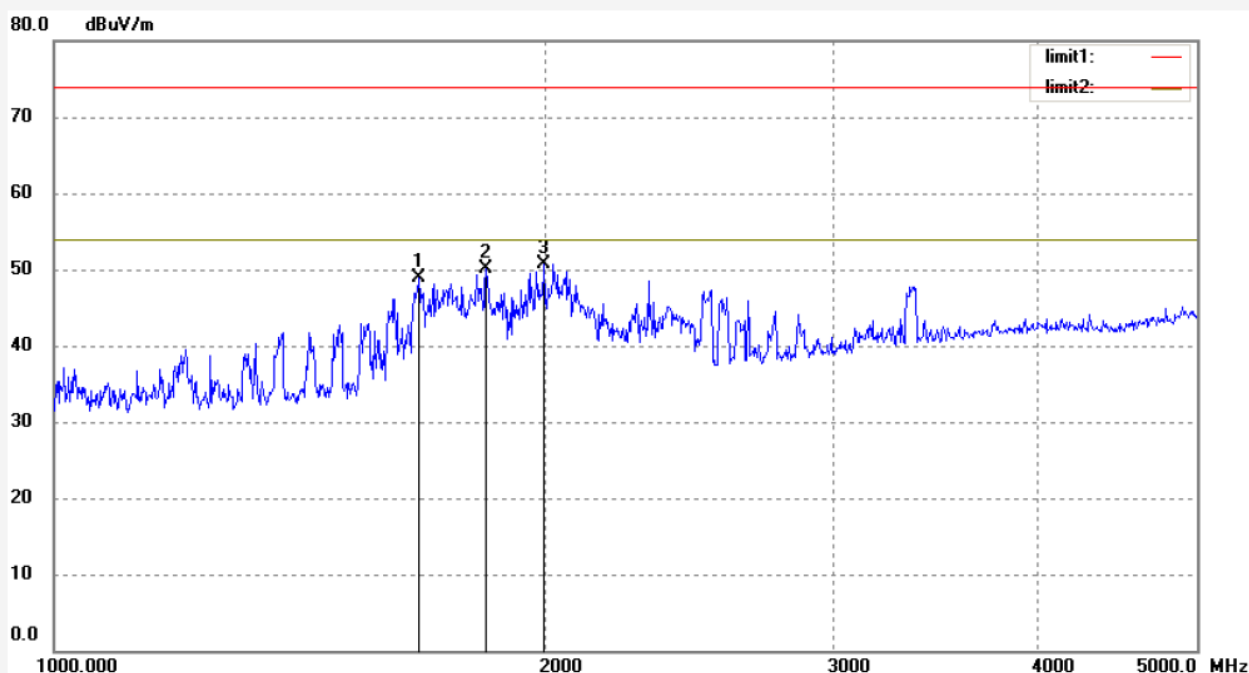
Date: 2013/12/16

Time: 14:16:06

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1670.981	57.99	-9.05	48.94	74.00	-25.06	peak			
2	1837.429	58.43	-8.41	50.02	74.00	-23.98	peak			
3	1994.611	58.45	-7.81	50.64	74.00	-23.36	peak			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20132534

Page 42 of 56

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #3096

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Charging&HDMI

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Horizontal

Power Source: AC 120V/60Hz

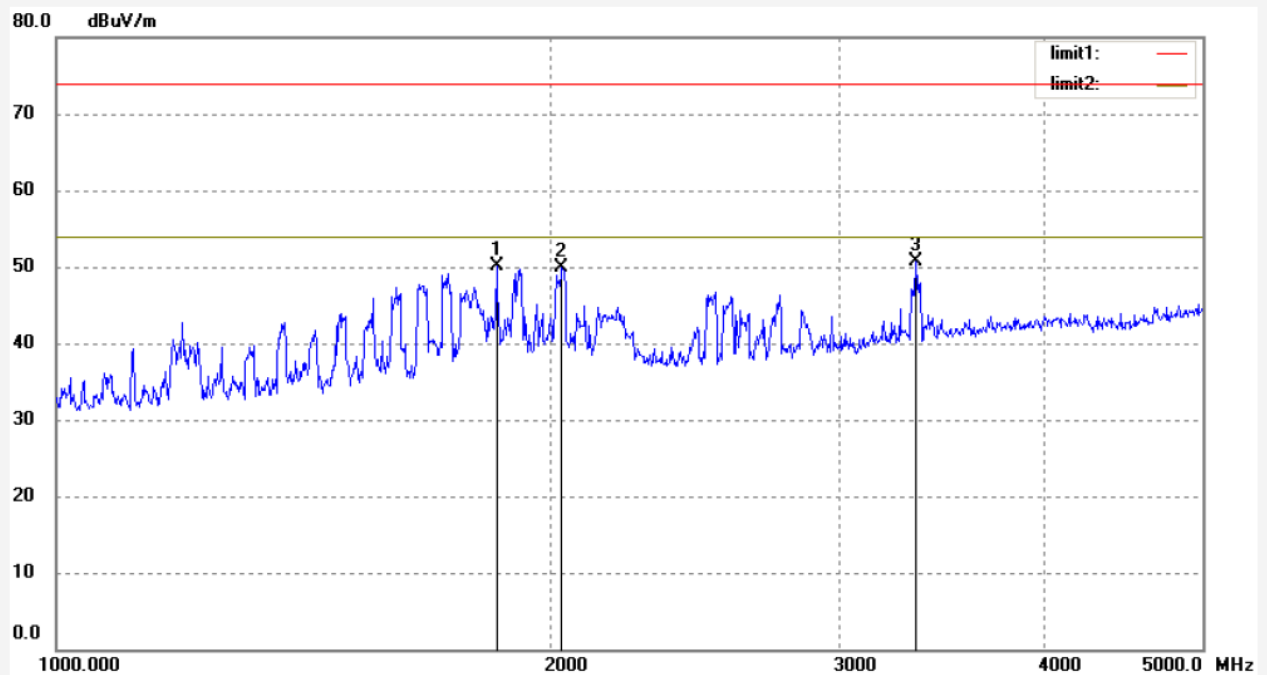
Date: 2013/12/16

Time: 14:12:56

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1855.259	58.42	-8.35	50.07	74.00	-23.93	peak			
2	2033.507	57.63	-7.71	49.92	74.00	-24.08	peak			
3	3343.702	54.67	-3.89	50.78	74.00	-23.22	peak			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20132534

Page 43 of 56

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #3095

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Novo 7 Crystal II User Manual

Mode: Charging&HDMI

Model: Novo 7 Crystal II

Manufacturer: Ainol

Polarization: Vertical

Power Source: AC 120V/60Hz

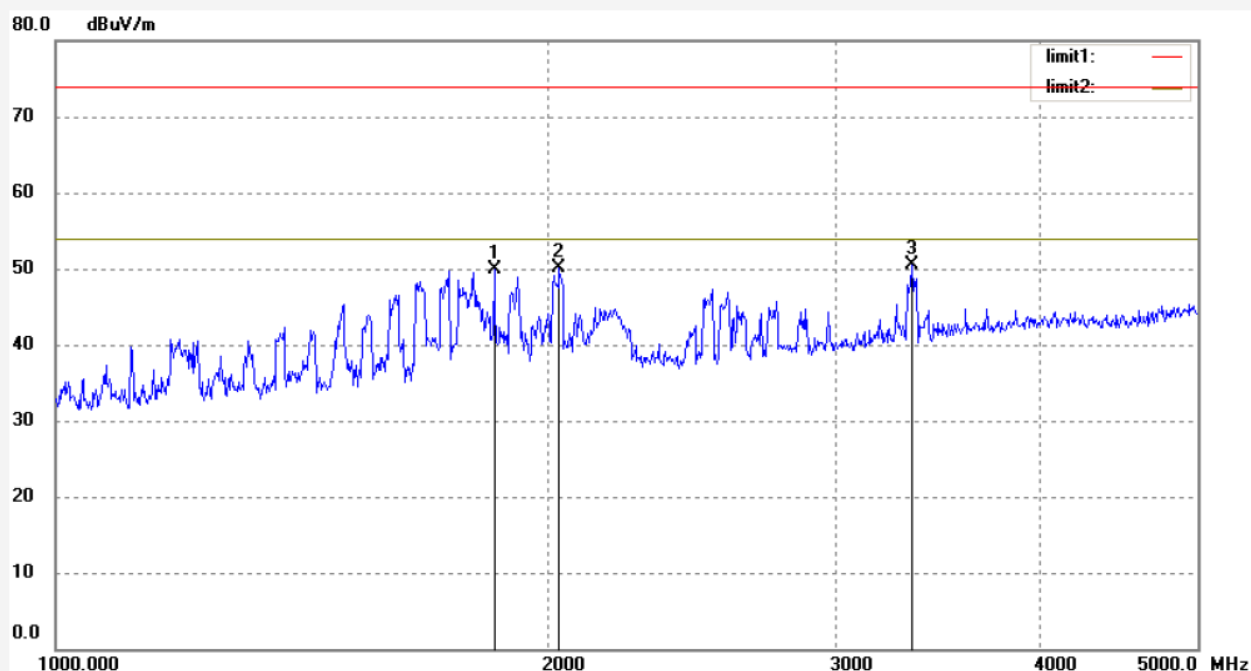
Date: 2013/12/16

Time: 14:12:14

Engineer Signature:

Distance: 3m

Note: Report No:ATE20132534

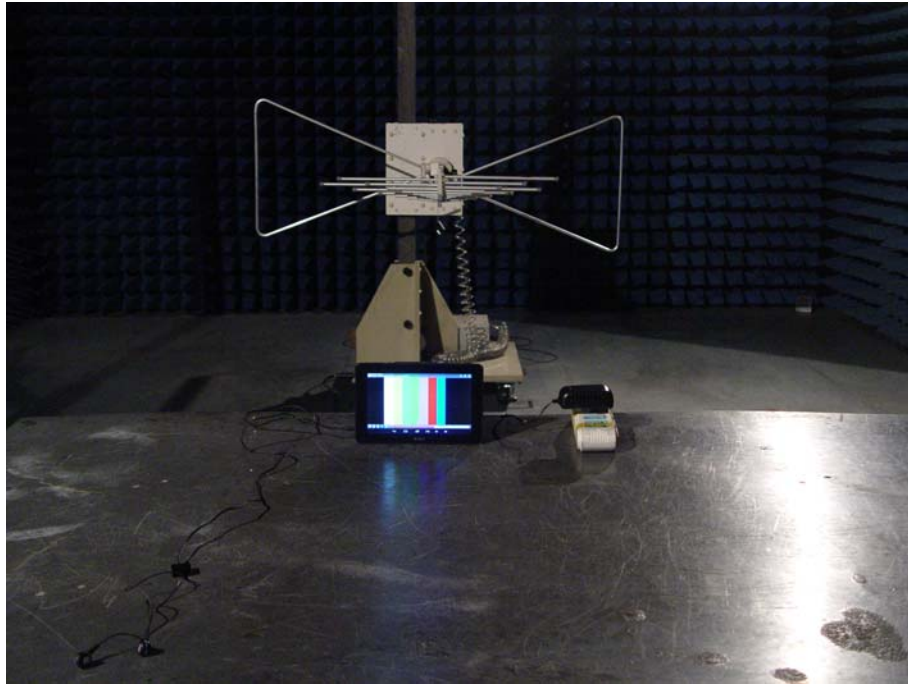


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1855.259	58.31	-8.35	49.96	74.00	-24.04	peak			
2	2033.507	57.78	-7.71	50.07	74.00	-23.93	peak			
3	3343.702	54.37	-3.89	50.48	74.00	-23.52	peak			

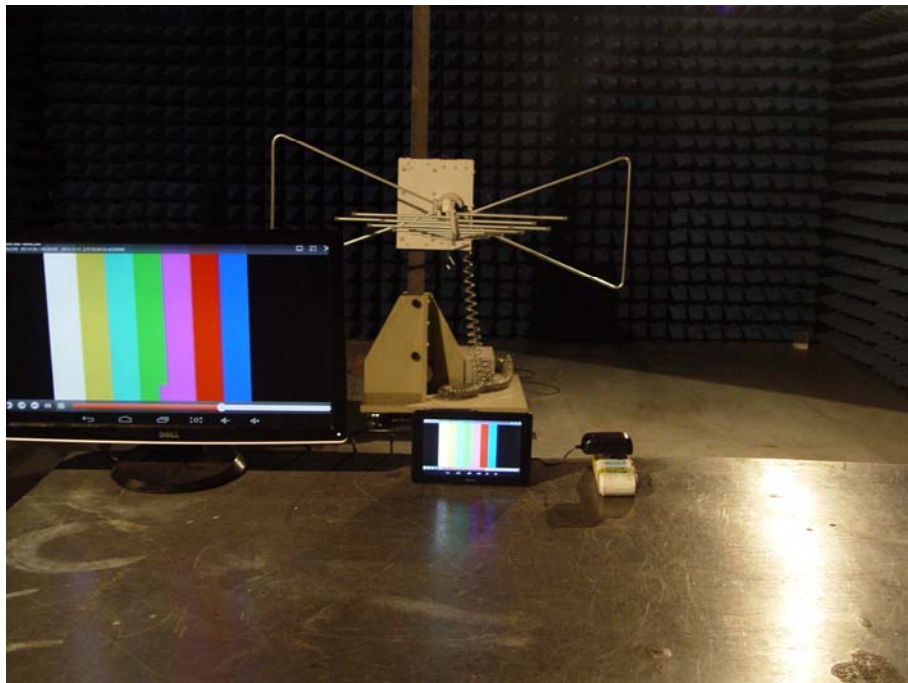
5. PHOTOGRAPHS

5.1.Photos of Radiated Measurement

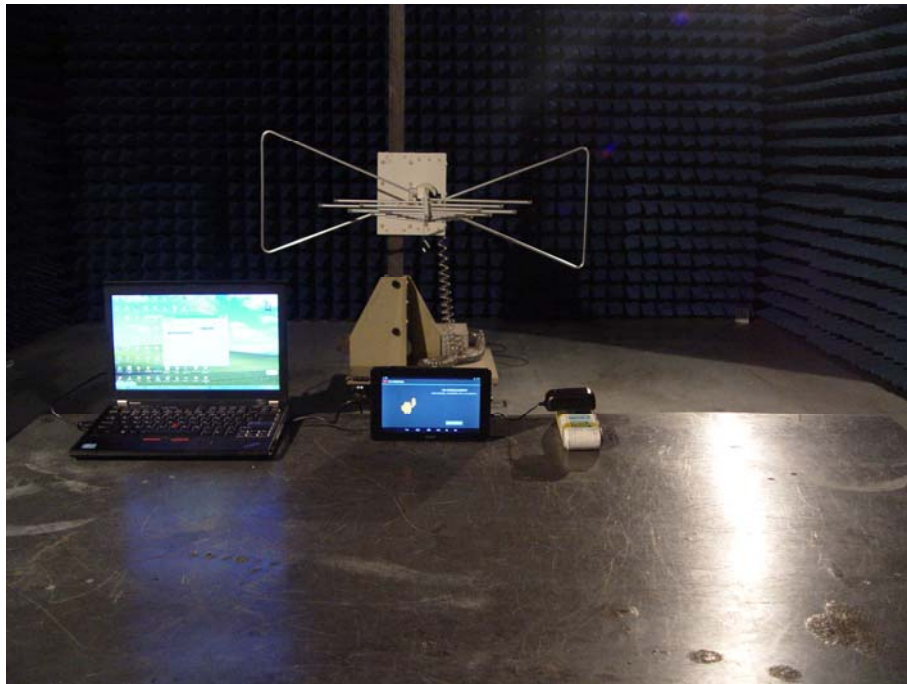
Playing mode(below 1GHz)



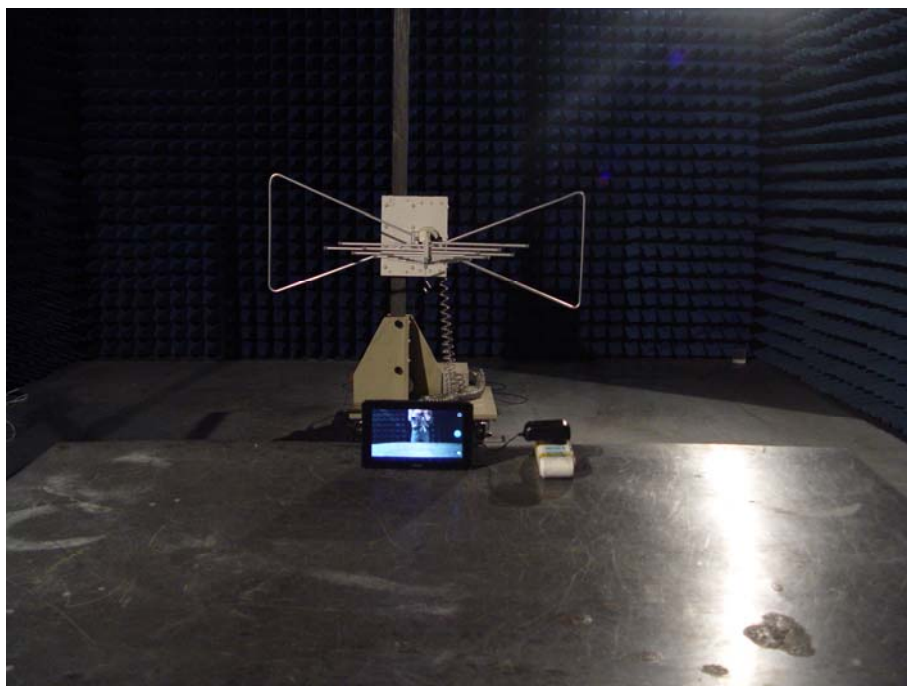
HDMI mode(below 1GHz)



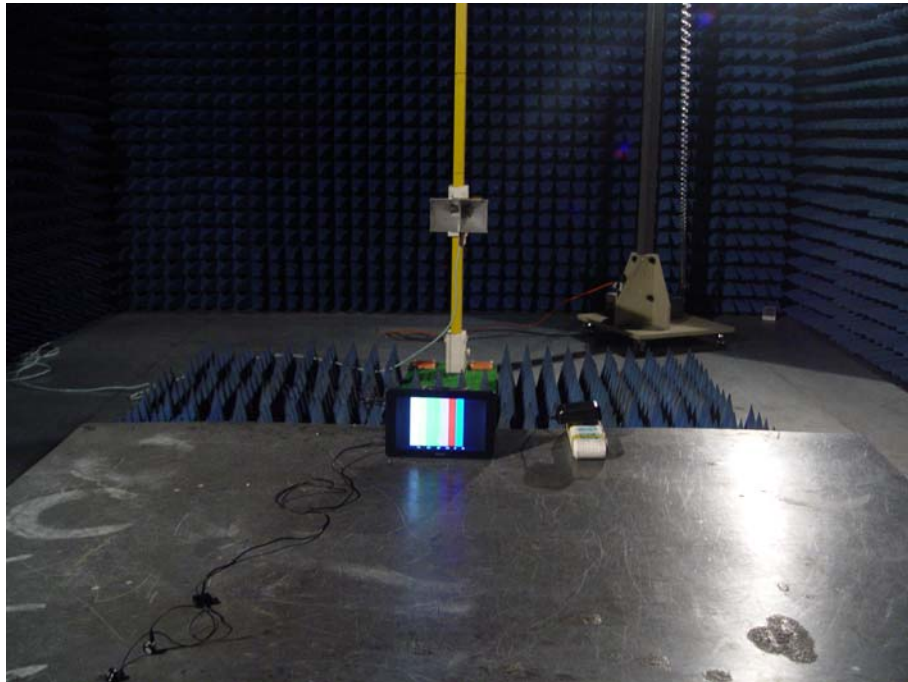
Transfer data mode(below 1GHz)



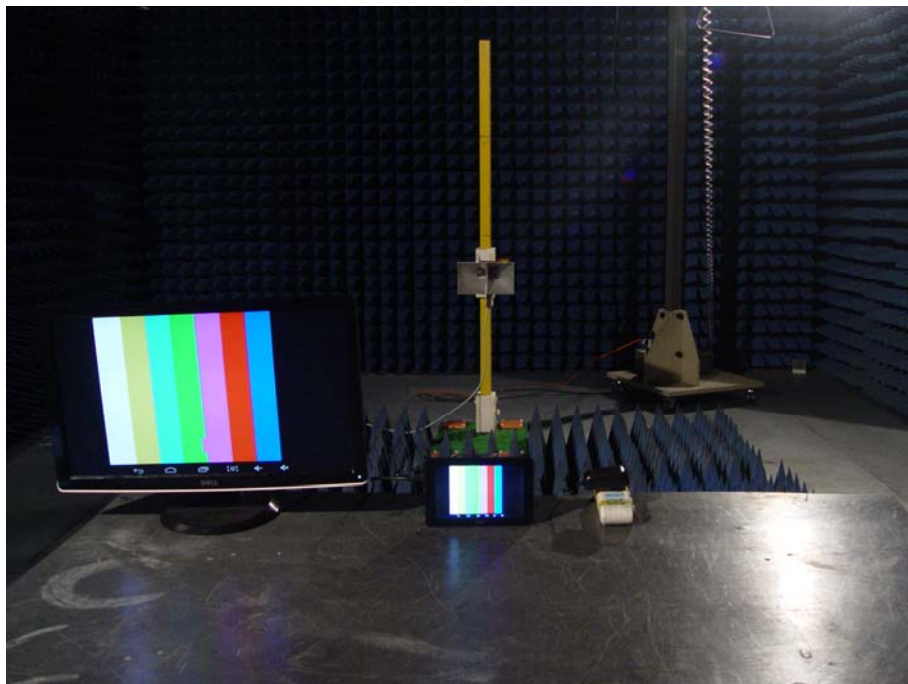
Camera mode(below 1GHz)



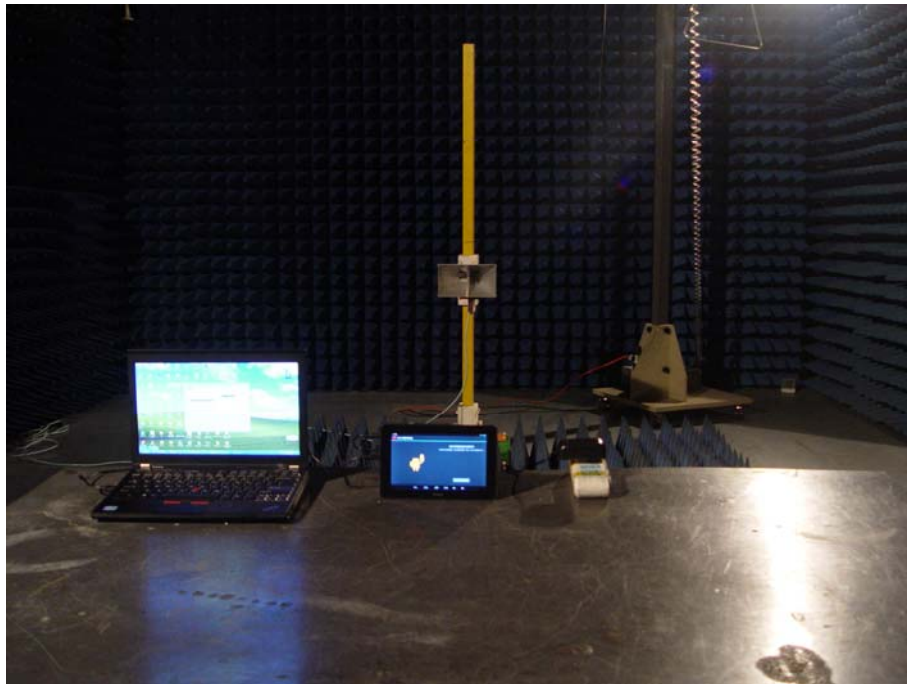
Playing mode(above 1GHz)



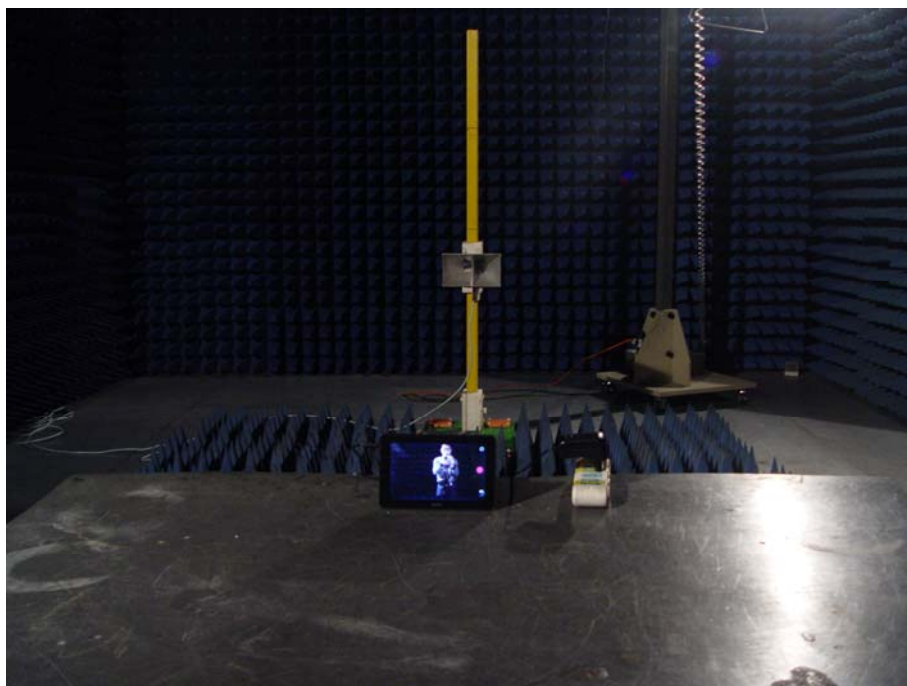
HDMI mode(above 1GHz)



Transfer data mode(above 1GHz)



Camera mode(above 1GHz)

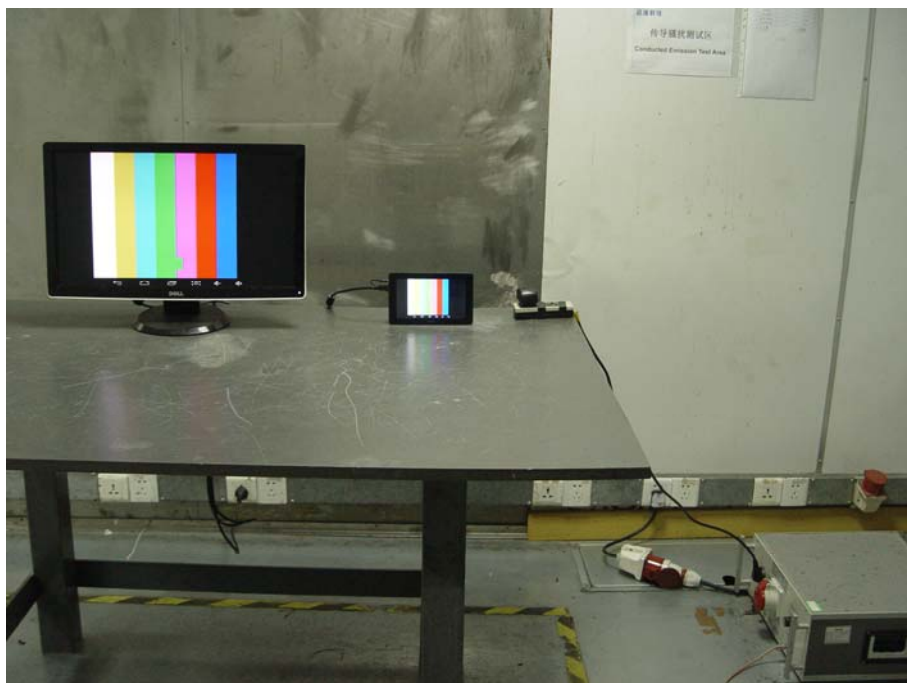


5.2. Photograph of set-up for Mains Terminal Disturbance Voltage

Playing mode



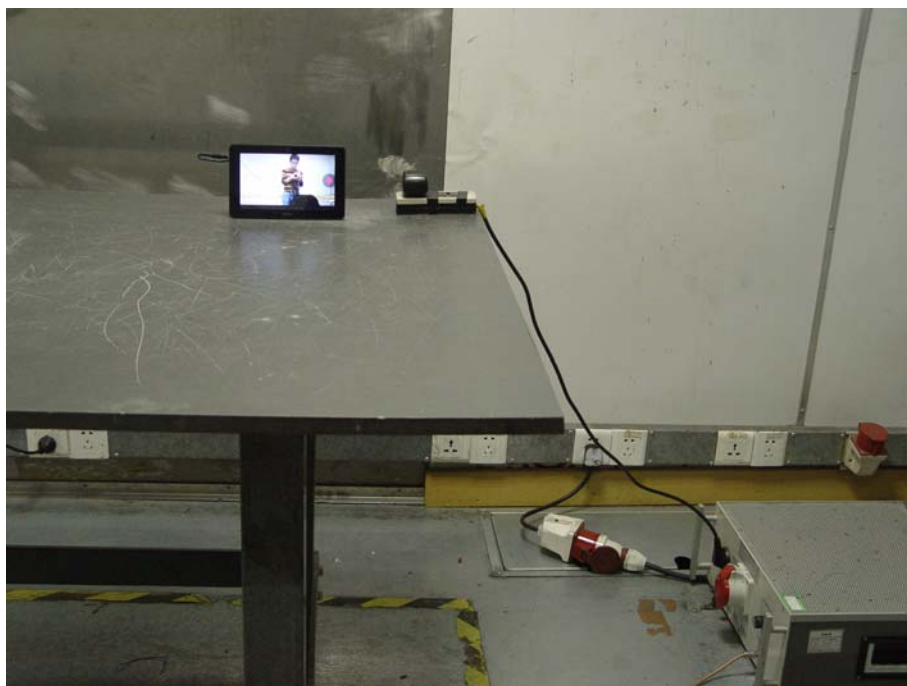
HDMI mode



Transfer data mode



Camera mode



5.3.Photos of EUT



